

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: **WINSIDE, NE US**

GHCND:USC00259355

Elev: 1591 ft. Lat: 42.176° N Lon: 97.176° 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	0.71	3.3	1.9	0.4	0.1	0.34	0.59	0.87
2	0.80	3.8	2.0	0.4	0.1	0.46	0.71	1.06
3	2.19	5.8	4.5	1.6	0.4	0.76	1.71	3.43
4	3.32	8.4	6.2	2.4	1.2	1.53	2.98	4.21
5	4.06	10.6	8.1	3.0	1.0	2.45	4.52	4.91
6	4.32	9.0	6.9	3.0	1.2	2.70	4.26	5.50
7	3.42	8.4	6.4	2.5	0.8	2.10	3.33	4.42
8	3.33	7.2	4.8	2.2	0.7	1.39	3.30	4.60
9	3.02	6.7	4.8	1.9	0.8	1.61	2.72	4.02
10	2.21	6.4	4.3	1.3	0.7	0.81	1.65	3.07
11	1.48	4.9	3.5	1.1	0.3	0.71	1.24	2.27
12	0.98	3.8	2.3	0.5	0.1	0.39	0.71	1.20
Summary	29.84	78.3	55.7	20.3	7.4	15.25	27.72	39.56

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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

9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

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Station: **WINSIDE, NE US**

GHCND:USC00259355
 Elev: 1591 ft. Lat: 42.176° N Lon: 97.176° 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	6.8	3.0	2.0	0.8	0.3	0.1	@	@	@	@	2.0	4.0	10.3
2	6.5	2.7	1.8	0.8	0.3	0.1	@	@	@	@	2.2	5.0	7.3
3	4.9	1.9	1.5	0.7	0.4	0.0	@	@	@	@	1.2	4.3	6.0
4	2.9	1.0	0.9	0.4	0.4	0.0	@	@	@	@	0.0	1.0	6.0
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	0.7	0.2	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	5.2	2.0	1.8	0.6	0.3	0.1	@	@	@	@	2.0	4.0	7.8
12	7.1	3.2	2.6	1.0	0.4	0.1	@	@	@	@	5.0	6.0	10.0
Summary	34.1	14.0	10.8	4.4	2.2	0.4	9999	9999	9999	9999	12.4	24.3	47.4

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Station: **OSMOND, NE US**

GHCND:USC00256395
 Elev: 1650 ft. Lat: 42.357° N Lon: 97.597° 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	31.0	9.2	20.1	7.2	6.4	6.7	0	0	0	0	0	0	1082	1144	1237	1392	0.0	0.0	2.8	15.4	30.7	7.8
2	35.9	13.4	24.7	7.0	6.2	6.4	-7777	-7777	-7777	0	0	0	850	906	990	1130	0.0	0.0	5.1	10.8	27.0	5.0
3	47.3	23.0	35.1	5.5	3.8	4.3	4	2	1	-7777	-7777	0	619	679	771	925	0.0	0.0	13.8	4.4	26.1	0.9
4	61.0	34.6	47.8	5.3	3.2	4.0	51	38	23	9	2	1	267	314	389	525	0.0	0.3	23.8	0.3	12.7	0.0
5	72.0	47.6	59.8	3.4	3.2	3.1	196	154	100	42	13	7	47	67	107	204	0.0	1.0	30.6	0.0	1.1	0.0
6	81.6	58.2	69.9	3.3	3.0	3.0	449	391	307	180	84	58	2	4	10	33	0.1	4.3	30.0	0.0	0.0	0.0
7	86.5	63.2	74.8	2.9	2.4	2.5	615	553	460	309	172	127	-7777	-7777	-7777	4	0.5	9.5	31.0	0.0	0.0	0.0
8	84.0	59.9	71.9	3.4	2.9	3.0	526	465	375	231	112	76	1	2	4	16	0.1	6.1	31.0	0.0	-7777	0.0
9	76.2	49.3	62.7	3.7	2.5	2.7	263	217	156	78	29	17	31	45	74	146	0.0	2.1	29.7	0.0	1.1	0.0
10	63.1	36.0	49.6	3.8	3.2	3.0	52	36	19	5	-7777	-7777	221	267	343	484	0.0	0.2	26.9	0.3	10.7	0.0
11	45.6	23.0	34.3	6.9	4.2	5.3	3	2	-7777	-7777	0	0	624	682	771	921	0.0	0.0	11.4	5.0	24.8	0.8
12	31.9	11.5	21.7	7.3	6.3	6.6	0	0	0	0	0	0	1032	1094	1187	1342	0.0	0.0	2.0	14.3	30.6	6.0
Summary	59.7	35.7	47.7	5.0	3.9	4.2	2159	1858	1441	854	412	286	4776	5204	5883	7122	0.7	23.5	238.1	50.5	164.8	20.5

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GHCND:USC00256395

Elev: 1650 ft. Lat: 42.357° N Lon: 97.597° 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	0.53	2.9	1.5	0.3	0.0	0.22	0.61	0.69
2	0.60	3.0	1.9	0.3	-7777	0.27	0.50	0.75
3	1.80	5.8	4.1	1.1	0.3	0.83	1.40	2.70
4	2.90	7.3	5.4	2.1	0.8	1.63	2.60	3.96
5	3.77	8.9	7.2	2.7	0.9	2.35	3.63	4.66
6	3.94	8.4	6.3	2.3	1.1	2.57	3.74	4.99
7	2.94	6.9	5.1	2.0	0.6	1.61	2.33	3.78
8	3.27	6.6	5.2	2.1	1.0	1.86	3.45	4.44
9	2.90	5.8	4.8	2.1	0.7	1.86	2.72	3.76
10	2.09	5.0	3.9	1.3	0.5	0.90	1.63	3.20
11	1.32	3.8	2.7	0.8	0.4	0.45	1.01	2.13
12	0.66	3.5	1.8	0.4	0.1	0.22	0.50	0.77
Summary	26.72	67.9	49.9	17.5	6.4	14.77	24.12	35.83

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Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.1	1.0	3.0	5.0	10.0	1	3	5	10	.25	.50	.75
1	5.2	2.7	2.2	0.8	0.4	-7777	13.7	9.4	6.1	0.4	2.0	4.0	7.5
2	5.4	2.5	1.9	0.8	0.2	0.1	11.0	7.7	5.4	1.2	2.5	5.0	6.8
3	5.6	2.3	2.1	0.6	0.3	0.0	5.8	3.3	1.7	0.3	1.5	4.6	7.0
4	2.6	0.8	0.8	0.4	0.1	0.0	0.9	0.5	0.2	0.0	0.0	0.0	4.0
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	0.7	0.3	0.3	0.1	-7777	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
11	4.9	1.9	1.7	0.7	0.3	0.1	4.5	2.1	1.0	0.2	1.0	3.0	7.0
12	5.7	3.3	2.6	0.7	0.2	0.0	14.5	8.7	4.8	1.6	2.0	4.5	8.7
Summary	30.1	13.8	11.6	4.1	1.5	0.2	50.6	31.7	19.2	3.7	9.0	21.1	41.0

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Station: **OSMOND, NE US**

GHCND:USC00256395

Elev: 1650 ft. Lat: 42.357° N Lon: 97.597° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	12	74	273	614	897	1080	990	683	324	65	2
45	1	3	34	172	462	747	925	835	535	206	32	-7777
50	0	1	13	98	319	597	770	680	393	113	12	0
55	0	-7777	4	51	196	449	615	526	263	52	3	0
60	0	-7777	1	23	100	307	460	375	156	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	8	17	69	191	375	584	725	657	435	221	56	5

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	15	89	362	976	1873	2953	3943	4626	4950	5015	5017
45	1	4	38	210	672	1419	2344	3179	3714	3920	3952	-7777
50	0	1	14	112	431	1028	1798	2478	2871	2984	2996	2996
55	0	-7777	4	55	251	700	1315	1841	2104	2156	2159	2159
60	0	-7777	1	24	124	431	891	1266	1422	1441	-7777	1441
Growing Degree Units for Corn (Monthly)												
50/86	8	25	94	285	660	1244	1969	2626	3061	3282	3338	3343

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: **PAXTON, NE US**

GHCND:USC00256585
Elev: 3074 ft. Lat: 41.123° N Lon: 101.356° 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	0.38	3.0	1.1	0.2	0.0	0.09	0.28	0.66
2	0.51	3.1	1.6	0.2	0.0	0.12	0.38	0.82
3	1.11	4.6	3.0	0.6	0.1	0.38	0.93	1.50
4	2.24	6.8	4.7	1.6	0.4	1.11	2.09	3.38
5	3.17	9.7	6.4	2.1	0.6	2.28	2.67	4.11
6	3.37	9.0	6.1	2.1	0.8	2.43	3.15	4.39
7	3.10	7.2	5.6	2.2	0.9	2.03	2.79	4.03
8	2.20	6.5	3.8	1.5	0.5	0.85	1.52	2.74
9	1.66	5.4	3.2	1.0	0.4	0.67	1.55	2.41
10	1.62	5.2	3.5	1.0	0.3	0.74	1.27	2.43
11	0.65	3.1	1.7	0.3	0.0	0.22	0.51	1.04
12	0.34	2.1	0.9	0.1	-7777	0.05	0.21	0.44
Summary	20.35	65.7	41.6	12.9	4.0	10.97	17.35	27.95

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Station: **PAXTON, NE US**

GHCND:USC00256585
 Elev: 3074 ft. Lat: 41.123° N Lon: 101.356° 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	1.5	1.2	0.2	0.1	0.0	3.3	1.4	0.6	-7777	0.0	1.0	6.0
2	4.1	2.0	1.4	0.5	0.2	0.0	3.3	1.6	0.7	0.0	0.0	3.0	6.5
3	2.0	0.8	0.6	0.2	0.1	0.0	0.9	0.5	0.3	0.0	0.0	0.0	4.0
4	0.8	0.3	0.3	0.2	0.1	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
5	-7777	-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	0.1	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.3	0.2	0.1	0.1	0.1	-7777	0.2	0.1	0.1	-7777	0.0	0.0	0.0
11	3.3	0.8	0.7	0.3	0.1	-7777	0.6	-7777	0.0	0.0	0.0	1.0	2.0
12	3.6	1.3	1.0	0.4	0.1	-7777	3.5	1.5	0.8	0.0	0.0	0.7	5.5
Summary	17.3	7.0	5.3	1.9	0.8	0.0	11.9	5.2	2.5	0.0	0.0	5.7	24.0

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Station: **OSHKOSH 8 SW, NE US**

GHCND:USC00256390
Elev: 3829 ft. Lat: 41.304° N Lon: 102.438° 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	0.33	2.7	1.1	0.1	0.0	0.14	0.27	0.39
2	0.45	2.9	1.3	0.2	-7777	0.10	0.32	0.61
3	1.20	5.1	2.8	0.6	0.1	0.51	0.94	1.71
4	1.95	6.3	4.4	1.2	0.3	0.74	2.03	2.91
5	3.08	9.5	6.3	2.1	0.5	2.22	2.70	3.67
6	3.26	9.2	6.5	2.1	0.8	1.47	3.01	4.66
7	2.91	7.5	5.5	2.1	0.7	2.17	2.86	3.69
8	2.37	6.8	4.6	1.6	0.6	1.47	2.40	2.95
9	1.58	5.3	3.5	1.0	0.3	0.74	1.45	2.33
10	1.33	5.2	3.0	0.7	0.2	0.61	1.06	1.78
11	0.65	3.4	2.0	0.3	-7777	0.23	0.50	1.05
12	0.50	2.8	1.3	0.2	-7777	0.11	0.28	0.70
Summary	19.61	66.7	42.3	12.2	3.5	10.51	17.82	26.45

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-4444: year-round risk of frost-freeze

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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: OSHKOSH 8 SW, NE US

GHCND:USC00256390
 Elev: 3829 ft. Lat: 41.304° N Lon: 102.438° 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	2.1	1.7	0.6	0.2	-7777	@	@	@	@	1.0	4.0	7.6
2	4.9	2.2	1.7	0.5	0.3	-7777	@	@	@	@	1.2	3.2	8.8
3	5.7	2.7	1.9	0.7	0.2	0.0	@	@	@	@	2.7	5.4	7.8
4	3.6	1.5	1.2	0.7	0.3	0.0	@	@	@	@	0.0	2.0	6.8
5	0.2	0.1	0.1	-7777	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	0.4	0.1	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	2.2	0.8	0.7	0.3	0.2	-7777	@	@	@	@	0.0	0.0	3.0
11	4.9	2.0	1.6	0.7	0.3	-7777	@	@	@	@	2.0	3.2	7.5
12	5.6	2.6	2.1	0.7	0.3	-7777	@	@	@	@	2.1	4.5	9.0
Summary	32.0	14.1	11.1	4.3	1.8	0.0	9999	9999	9999	9999	9.0	22.3	50.5

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1981-2010**

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

Station: **JANSEN 3 NE, NE US**

GHCND:USC00253581

Elev: 1460 ft. Lat: 40.200° N Lon: 97.033° 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	0.65	3.2	2.1	0.3	0.0	0.28	0.67	0.96
2	0.86	3.9	2.1	0.1	0.0	0.35	0.70	1.08
3	2.13	6.6	4.2	1.4	0.5	1.18	1.97	2.85
4	2.95	7.4	4.9	1.4	0.5	2.04	2.79	3.59
5	4.39	11.5	7.7	2.4	1.0	3.35	3.89	5.82
6	4.09	8.7	6.1	3.1	1.1	3.00	3.94	5.09
7	4.53	8.7	6.5	3.5	1.3	2.25	4.48	5.65
8	4.29	8.0	6.8	3.4	1.5	2.38	4.04	5.60
9	3.53	6.0	5.0	1.9	1.1	2.41	3.32	4.77
10	2.13	6.4	4.7	1.1	0.3	0.97	1.65	2.61
11	1.47	5.1	3.1	0.9	0.4	0.71	1.09	2.11
12	0.89	4.6	2.9	0.5	0.2	0.25	0.56	1.36
Summary	31.91	80.1	56.1	20.0	7.9	19.17	29.10	41.49

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

Station: DEWEESE 4 SE, NE US

GHCND:USC00252306

Elev: 1660 ft. Lat: 40.350° N Lon: 98.059° 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	0.53	2.5	1.7	0.3	0.0	0.17	0.43	0.75
2	0.63	2.8	2.0	0.3	0.1	0.15	0.52	0.74
3	1.97	4.8	3.9	1.3	0.3	0.64	1.98	2.70
4	2.45	6.1	5.1	1.9	0.6	1.61	2.37	3.44
5	4.65	8.6	7.7	3.4	1.5	2.38	4.73	6.29
6	3.52	7.0	5.9	2.4	1.0	2.21	3.34	4.54
7	3.92	6.4	5.6	2.7	1.2	1.57	3.83	4.62
8	3.28	5.6	4.8	2.4	1.0	1.50	3.30	4.93
9	2.39	4.9	4.0	1.6	0.8	1.06	1.98	3.20
10	2.00	4.5	3.6	1.4	0.7	0.99	1.47	3.06
11	1.30	3.3	2.5	0.9	0.4	0.31	0.89	1.89
12	0.71	3.0	2.0	0.5	0.1	0.27	0.44	1.03
Summary	27.35	59.5	48.8	19.1	7.7	12.86	25.28	37.19

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

Station: DEWEESE 4 SE, NE US

GHCND:USC00252306
 Elev: 1660 ft. Lat: 40.350° N Lon: 98.059° 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	4.5	2.0	1.7	0.8	0.4	-7777	@	@	@	@	2.5	4.0	7.0
2	5.5	2.0	1.8	0.7	0.4	-7777	@	@	@	@	1.5	5.0	9.0
3	3.6	1.2	1.0	0.5	0.3	-7777	@	@	@	@	0.0	1.3	4.5
4	0.9	0.3	0.3	0.2	-7777	0.0	@	@	@	@	0.0	0.0	1.0
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	1.2	0.1	0.1	0.1	0.1	-7777	@	@	@	@	0.0	0.0	0.0
11	2.4	1.0	0.8	0.4	0.1	0.1	@	@	@	@	0.0	1.0	4.0
12	4.2	1.6	1.4	0.6	0.2	0.0	@	@	@	@	1.5	4.0	7.0
Summary	22.3	8.2	7.1	3.3	1.5	0.1	9999	9999	9999	9999	5.5	15.3	32.5

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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: **SIDNEY 6 NNW, NE US**

GHCND:USC00257830
 Elev: 4321 ft. Lat: 41.229° N Lon: 103.021° 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	15.0	27.8	5.2	4.1	4.4	1	-7777	-7777	0	0	0	842	904	997	1152	0.0	0.0	6.9	7.4	30.0	3.4
2	43.6	17.3	30.4	5.2	5.0	4.8	-7777	-7777	-7777	0	0	0	687	743	827	967	0.0	0.0	9.4	5.2	26.6	2.7
3	51.6	24.2	37.9	4.2	3.2	3.2	3	1	-7777	-7777	0	0	533	593	685	840	0.0	0.0	17.3	2.8	25.5	0.5
4	59.8	32.0	45.9	4.6	2.5	3.2	25	16	7	1	-7777	0	298	349	430	574	0.0	-7777	23.0	0.6	14.7	0.0
5	69.6	42.3	55.9	4.0	1.8	2.5	122	90	52	15	2	1	93	123	177	295	0.0	0.4	29.3	0.0	2.7	0.0
6	80.2	51.4	65.8	3.8	2.2	2.8	335	281	206	103	37	22	11	17	32	79	0.2	4.9	29.9	0.0	0.0	0.0
7	88.6	57.9	73.3	2.8	2.1	2.3	566	505	413	265	136	94	-7777	1	2	9	1.8	14.6	31.0	0.0	0.0	0.0
8	86.3	56.6	71.5	3.1	2.3	2.5	511	450	360	217	99	65	1	2	5	17	0.6	10.9	31.0	0.0	0.0	0.0
9	77.0	46.4	61.7	3.6	2.6	2.8	245	200	140	63	19	10	44	59	89	162	0.1	3.7	29.1	-7777	1.6	0.0
10	63.8	33.9	48.8	3.9	2.5	2.7	45	30	15	3	1	-7777	236	283	360	504	0.0	0.2	26.1	0.2	11.7	0.0
11	49.9	23.3	36.6	6.1	3.4	4.6	4	2	-7777	-7777	0	0	556	614	702	852	0.0	0.0	14.9	3.4	24.7	0.7
12	40.4	15.0	27.7	5.9	4.6	5.1	1	-7777	-7777	0	0	0	847	908	1001	1156	0.0	0.0	7.8	7.6	29.9	3.1
Summary	62.6	34.6	48.6	4.4	3.0	3.4	1858	1575	1193	667	294	192	4148	4596	5307	6607	2.7	34.7	255.7	27.2	167.4	10.4

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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: **SIDNEY 6 NNW, NE US**

GHCND:USC00257830
Elev: 4321 ft. Lat: 41.229° N Lon: 103.021° 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	0.29	1.9	0.8	0.1	0.0	0.05	0.22	0.36
2	0.36	2.8	1.2	0.1	0.0	0.10	0.32	0.50
3	0.93	4.7	2.7	0.5	0.2	0.46	0.57	1.50
4	1.72	6.1	3.6	1.0	0.3	0.63	1.50	2.36
5	2.71	9.2	5.9	2.0	0.6	1.64	2.37	3.20
6	3.23	9.2	6.6	2.4	0.7	1.81	3.24	4.16
7	2.32	7.2	5.0	1.6	0.4	1.53	2.06	2.91
8	2.13	6.7	4.7	1.3	0.4	1.38	2.02	2.61
9	1.46	5.7	3.6	0.9	0.3	0.83	1.13	2.11
10	1.03	4.5	2.8	0.6	0.1	0.32	0.91	1.49
11	0.54	2.7	1.6	0.2	0.1	0.23	0.48	0.67
12	0.27	1.8	1.1	0.1	-7777	0.07	0.15	0.32
Summary	16.99	62.5	39.6	10.8	3.1	9.05	14.97	22.19

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1981-2010**

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www.ncdc.noaa.gov

Station: **SIDNEY 6 NNW, NE US**

GHCND:USC00257830
Elev: 4321 ft. Lat: 41.229° N Lon: 103.021° 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	1.5	1.2	0.3	0.1	0.1	@	@	@	@	0.0	2.0	5.5
2	3.9	2.0	1.7	0.3	0.1	0.0	@	@	@	@	1.3	3.0	5.0
3	4.1	1.7	1.7	0.3	0.1	0.0	@	@	@	@	2.0	4.0	6.9
4	1.7	0.7	0.6	0.3	0.1	0.0	@	@	@	@	0.0	0.0	3.0
5	0.2	-7777	-7777	-7777	-7777	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	0.2	-7777	-7777	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.5	0.4	0.4	0.3	0.1	0.0	@	@	@	@	0.0	0.0	0.5
11	2.7	1.1	1.1	0.4	0.1	0.0	@	@	@	@	0.3	2.0	5.5
12	5.1	1.4	1.3	0.7	0.2	-7777	@	@	@	@	0.0	4.0	9.0
Summary	22.4	8.8	8.0	2.6	0.8	0.1	9999	9999	9999	9999	3.6	15.0	35.4

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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: **SIDNEY 6 NNW, NE US**

GHCND:USC00257830
Elev: 4321 ft. Lat: 41.229° N Lon: 103.021° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	26	97	229	497	774	1030	975	654	310	91	20
45	6	8	43	133	353	624	875	820	509	196	44	7
50	2	2	15	66	225	477	720	665	370	104	16	2
55	1	-7777	3	25	122	335	566	511	245	45	4	1
60	-7777	-7777	-7777	7	52	206	413	360	140	15	-7777	-7777
Growing Degree Units for Corn (Monthly)												
50/86	26	38	100	176	313	479	649	618	415	233	90	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	43	140	369	866	1640	2670	3645	4299	4609	4700	4720
45	6	14	57	190	543	1167	2042	2862	3371	3567	3611	3618
50	2	4	19	85	310	787	1507	2172	2542	2646	2662	2664
55	1	-7777	4	29	151	486	1052	1563	1808	1853	1857	1858
60	-7777	-7777	-7777	7	59	265	678	1038	1178	1193	-7777	-7777
Growing Degree Units for Corn (Monthly)												
50/86	26	64	164	340	653	1132	1781	2399	2814	3047	3137	3165

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: **HARDY, NE US**

GHCND:USC00253589

Elev: 1519 ft. Lat: 40.014° N Lon: 97.929° 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	0.62	4.1	1.8	0.2	0.0	0.18	0.60	0.80
2	0.73	4.2	2.2	0.3	0.0	0.26	0.63	0.98
3	1.90	6.8	3.9	1.2	0.3	0.80	1.41	2.54
4	2.56	8.6	5.6	1.7	0.4	1.42	2.57	3.33
5	4.47	11.4	7.6	3.1	1.4	2.56	4.77	5.70
6	3.84	9.8	6.2	2.3	1.0	2.41	3.50	5.22
7	3.80	8.2	6.1	2.9	1.1	2.08	3.57	4.71
8	2.90	8.4	5.0	1.9	0.8	1.98	2.80	4.20
9	2.57	6.4	4.1	1.7	0.5	1.23	1.95	4.00
10	2.02	6.5	3.6	1.3	0.5	0.69	1.56	2.35
11	1.33	4.5	2.5	0.8	0.4	0.42	0.92	1.88
12	0.86	4.2	2.3	0.5	0.1	0.27	0.59	1.44
Summary	27.60	83.1	50.9	17.9	6.5	14.30	24.87	37.15

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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: **HARDY, NE US**

GHCND:USC00253589
 Elev: 1519 ft. Lat: 40.014° N Lon: 97.929° 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	1.8	0.5	0.2	0.0	10.9	5.6	2.8	0.5	1.5	4.0	6.0
2	4.4	2.3	1.9	0.6	0.2	0.0	8.0	4.6	2.2	0.0	1.0	3.5	5.5
3	2.6	1.2	0.9	0.4	0.2	-7777	2.9	1.7	0.9	0.2	0.0	1.0	3.0
4	0.8	0.4	0.3	0.1	-7777	0.0	0.5	0.2	0.2	-7777	0.0	0.0	0.7
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	0.1	-7777	-7777	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	-7777	-7777	-7777	-7777	0.2	0.1	0.1	0.0	0.0	0.0	0.0
11	2.5	1.2	0.8	0.4	0.1	0.0	2.0	1.1	0.5	0.0	0.0	1.0	4.0
12	4.2	2.2	1.7	0.7	0.3	0.0	9.5	6.0	2.3	0.3	0.0	4.0	5.9
Summary	19.7	9.8	7.4	2.7	1.0	0.0	34.0	19.3	9.0	1.0	2.5	13.5	25.1

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **WHITMAN 5 ENE, NE US**

GHCND:USW00094079
 Elev: 3740 ft. Lat: 42.068° N Lon: 101.445° 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	14.7	26.2				0	0	0	0	0	0	893	955	1048	1203	0.0	0.0	5.5	10.2	29.7	4.5
2	38.9	16.2	27.6				-7777	-7777	0	0	0	0	768	824	908	1048	0.0	0.0	5.2	7.8	26.5	2.7
3	48.2	24.0	36.1				3	1	-7777	-7777	0	0	589	649	741	896	0.0	0.0	14.2	3.8	26.2	0.5
4	58.8	33.1	45.9				24	15	7	1	-7777	0	295	346	428	573	0.0	0.0	22.5	0.3	12.9	0.0
5	68.6	44.3	56.5				122	88	50	17	4	2	77	105	160	282	0.0	0.3	29.2	0.0	1.0	0.0
6	78.4	53.5	66.0				335	280	201	92	29	17	6	11	22	63	0.0	1.9	30.0	0.0	0.0	0.0
7	85.8	60.0	72.9				554	492	401	251	118	79	-7777	-7777	1	6	0.5	9.0	31.0	0.0	0.0	0.0
8	85.1	57.6	71.4				507	445	355	213	97	62	-7777	1	4	17	0.3	8.2	31.0	0.0	0.0	0.0
9	75.4	48.2	61.8				238	193	134	63	23	14	35	50	80	159	0.2	2.6	30.0	0.0	0.3	0.0
10	61.4	35.6	48.5				41	26	11	2	-7777	-7777	242	289	367	513	0.0	0.0	25.7	0.1	9.6	0.0
11	46.9	24.3	35.6				2	1	-7777	0	0	0	584	643	732	882	0.0	0.0	12.4	3.4	24.3	0.1
12	37.0	14.9	26.0				0	0	0	0	0	0	899	961	1055	1210	0.0	0.0	4.4	10.6	29.4	3.7
Summary	60.2	35.5	47.9	9999	9999	9999	1826	1541	1159	639	271	174	4388	4834	5546	6852	1.0	22.0	241.1	36.2	159.9	11.5

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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: **WHITMAN 5 ENE, NE US**

GHCND:USW00094079
Elev: 3740 ft. Lat: 42.068° N Lon: 101.445° 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	0.34	@	@	@	@			
2	0.54	@	@	@	@			
3	1.02	@	@	@	@			
4	1.99	@	@	@	@			
5	3.10	@	@	@	@			
6	3.73	@	@	@	@			
7	2.89	@	@	@	@			
8	2.12	@	@	@	@			
9	1.74	@	@	@	@			
10	1.54	@	@	@	@			
11	0.71	@	@	@	@			
12	0.37	@	@	@	@			
Summary	20.09	9999	9999	9999	9999	9999	9999	9999

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Station: **WHITMAN 5 ENE, NE US**

GHCND:USW00094079
Elev: 3740 ft. Lat: 42.068° N Lon: 101.445° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	13	82	223	512	778	1019	971	654	292	63	17
45	5	3	39	126	365	629	864	816	506	177	27	4
50	2	1	13	61	231	479	709	661	364	95	8	1
55	0	-7777	3	24	122	335	554	507	238	41	2	0
60	0	0	-7777	7	50	201	401	355	134	11	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	15	74	158	299	480	670	624	400	193	53	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	30	112	335	847	1625	2644	3615	4269	4561	4624	4641
45	5	8	47	173	538	1167	2031	2847	3353	3530	3557	3561
50	2	3	16	77	308	787	1496	2157	2521	2616	2624	2625
55	0	-7777	3	27	149	484	1038	1545	1783	1824	1826	1826
60	0	0	-7777	7	57	258	659	1014	1148	1159	-7777	1159
Growing Degree Units for Corn (Monthly)												
50/86	19	34	108	266	565	1045	1715	2339	2739	2932	2985	2999

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: **ALLIANCE MUNICIPAL AIRPORT, NE US**

GHCND:USW00024044
 Elev: 3930 ft. Lat: 42.057° N Lon: 102.802° 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	10.2	24.2	6.4	4.3	5.1	0	0	0	0	0	0	953	1015	1108	1263	0.0	0.0	6.1	9.2	30.9	5.7
2	41.4	12.9	27.1	6.6	5.4	5.7	0	0	0	0	0	0	780	836	920	1059	0.0	0.0	6.6	6.9	27.6	3.7
3	51.2	21.9	36.6	4.4	3.0	3.3	2	1	-7777	0	0	0	574	635	727	882	0.0	0.0	17.6	3.3	28.0	0.6
4	59.8	30.0	44.9	5.1	2.2	3.3	14	7	3	-7777	0	0	317	370	455	603	0.0	0.0	23.1	0.7	17.8	0.1
5	70.3	39.3	54.8	3.6	1.8	2.5	96	68	37	10	2	1	102	136	198	326	0.0	0.6	30.1	0.0	5.2	0.0
6	80.0	49.7	64.8	4.2	2.7	3.2	307	255	184	88	31	19	11	19	38	93	0.4	4.9	29.9	0.0	0.1	0.0
7	88.3	56.1	72.2	3.3	2.2	2.5	533	472	381	234	110	71	-7777	1	3	12	1.6	13.6	31.0	0.0	0.0	0.0
8	86.3	54.4	70.4	3.0	2.5	2.6	477	417	328	191	82	51	1	3	7	25	0.9	11.7	31.0	0.0	0.1	0.0
9	76.1	42.7	59.4	3.7	2.6	2.8	186	147	97	40	10	4	54	75	116	208	0.1	2.9	29.5	0.0	3.1	0.0
10	62.1	29.4	45.7	4.1	2.8	2.8	22	13	5	1	-7777	-7777	309	362	447	597	0.0	0.1	24.8	0.7	18.7	0.1
11	48.6	17.6	33.1	5.6	4.0	4.5	-7777	-7777	-7777	0	0	0	658	717	807	957	0.0	0.0	14.2	4.7	28.6	1.5
12	38.6	8.6	23.6	5.6	5.2	5.1	0	0	0	0	0	0	973	1035	1128	1283	0.0	0.0	5.9	8.4	31.0	6.5
Summary	61.8	31.1	46.4	4.6	3.2	3.6	1637	1380	1035	564	235	146	4732	5204	5954	7308	3.0	33.8	249.8	33.9	191.1	18.2

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1981-2010**

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

Station: **ALLIANCE MUNICIPAL AIRPORT, NE US**

GHCND:USW00024044
Elev: 3930 ft. Lat: 42.057° N Lon: 102.802° 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	0.18	@	@	@	@			
2	0.38	@	@	@	@			
3	0.85	@	@	@	@			
4	1.45	@	@	@	@			
5	2.65	@	@	@	@			
6	2.88	@	@	@	@			
7	2.32	@	@	@	@			
8	1.70	@	@	@	@			
9	1.39	@	@	@	@			
10	1.09	@	@	@	@			
11	0.45	@	@	@	@			
12	0.32	@	@	@	@			
Summary	15.66	9999	9999	9999	9999	9999	9999	9999

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Station: **ALLIANCE MUNICIPAL AIRPORT, NE US**

GHCND:USW00024044
Elev: 3930 ft. Lat: 42.057° N Lon: 102.802° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	9	73	200	461	746	998	940	583	228	48	5
45	-7777	1	30	107	317	596	843	785	439	130	18	1
50	0	-7777	9	46	191	448	688	631	302	60	4	0
55	0	0	2	14	96	307	533	477	186	22	-7777	0
60	0	0	-7777	3	37	184	381	328	97	5	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	17	25	99	175	317	466	626	593	389	210	80	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	13	86	286	747	1493	2491	3431	4014	4242	4290	4295
45	-7777	1	31	138	455	1051	1894	2679	3118	3248	3266	3267
50	0	-7777	9	55	246	694	1382	2013	2315	2375	2379	2379
55	0	0	2	16	112	419	952	1429	1615	1637	-7777	1637
60	0	0	-7777	3	40	224	605	933	1030	1035	-7777	1035
Growing Degree Units for Corn (Monthly)												
50/86	17	42	141	316	633	1099	1725	2318	2707	2917	2997	3015

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: **GENEVA, NE US**

GHCND:USC00253175

Elev: 1631 ft. Lat: 40.531° N Lon: 97.596° 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	16.6	26.8	6.6	4.8	5.5	-7777	0	0	0	0	0	874	936	1029	1184	0.0	0.0	5.5	11.0	29.2	3.1
2	41.7	20.5	31.1	7.0	5.4	6.0	1	-7777	-7777	0	0	0	670	725	809	949	0.0	0.0	8.2	7.3	23.8	1.7
3	53.0	29.5	41.3	5.0	3.6	4.0	15	10	4	1	-7777	-7777	442	498	586	737	0.0	-7777	18.2	2.1	18.7	0.3
4	65.1	40.1	52.6	4.5	3.0	3.5	87	65	40	15	4	2	159	197	262	387	0.0	0.5	26.9	0.0	5.9	0.0
5	73.8	51.7	62.7	3.4	2.7	2.9	261	213	148	66	21	12	21	34	63	136	0.0	1.0	31.0	0.0	0.1	0.0
6	83.0	61.2	72.1	3.1	2.3	2.6	513	454	366	228	115	80	-7777	1	3	15	0.1	5.5	30.0	0.0	0.0	0.0
7	87.1	65.8	76.4	2.9	1.7	2.2	665	603	510	356	211	160	0	0	-7777	2	0.8	10.5	31.0	0.0	0.0	0.0
8	85.2	64.0	74.6	3.7	2.5	3.0	607	546	453	303	168	123	-7777	-7777	1	5	0.5	8.2	31.0	0.0	0.0	0.0
9	78.2	54.7	66.4	3.4	2.3	2.7	356	302	228	126	55	36	12	19	35	82	0.1	2.8	29.8	0.0	0.2	0.0
10	66.1	42.5	54.3	3.4	2.4	2.6	105	77	46	15	4	2	127	161	223	347	0.0	0.2	28.4	0.2	3.7	0.0
11	50.7	29.6	40.1	5.8	3.9	4.7	10	6	3	-7777	-7777	0	456	512	598	746	0.0	0.0	16.1	2.5	17.9	0.1
12	37.9	19.0	28.4	6.3	5.6	5.8	-7777	-7777	0	0	0	0	823	885	978	1133	0.0	0.0	5.4	9.0	28.3	2.0
Summary	63.2	41.3	52.2	4.6	3.4	3.8	2620	2276	1798	1110	578	415	3584	3968	4587	5723	1.5	28.7	261.5	32.1	127.8	7.2

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

Station: **GENEVA, NE US**

GHCND:USC00253175

Elev: 1631 ft. Lat: 40.531° N Lon: 97.596° 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	0.59	3.4	1.6	0.2	0.1	0.18	0.41	0.89
2	0.61	3.2	1.8	0.1	0.0	0.14	0.49	0.82
3	1.84	5.9	4.0	1.1	0.3	0.72	1.54	2.45
4	2.59	7.0	5.2	1.7	0.7	1.47	2.33	3.23
5	4.78	10.3	8.0	3.5	1.5	2.66	4.55	5.89
6	4.43	8.5	6.4	3.3	1.6	2.11	3.98	6.24
7	3.46	7.3	5.5	2.2	1.1	1.91	2.96	4.23
8	3.48	6.9	5.4	2.5	1.1	2.52	3.19	4.31
9	3.33	5.9	4.6	2.1	0.9	1.66	2.93	4.50
10	2.11	5.7	4.1	1.4	0.5	0.92	1.44	2.98
11	1.33	3.9	2.6	0.7	0.2	0.29	1.03	1.93
12	0.72	3.4	2.0	0.4	0.1	0.23	0.54	0.92
Summary	29.27	71.4	51.2	19.2	8.1	14.81	25.39	38.39

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-4444: year-round risk of frost-freeze

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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: **GENEVA, NE US**

GHCND:USC00253175
 Elev: 1631 ft. Lat: 40.531° N Lon: 97.596° 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	2.2	1.9	0.6	0.3	-7777	11.5	7.8	4.0	1.4	0.0	2.0	5.4
2	5.1	2.3	1.9	0.7	0.4	0.0	9.1	5.9	3.7	0.2	1.0	5.5	7.5
3	3.3	1.1	1.0	0.5	0.3	0.0	2.8	1.9	1.0	0.3	0.0	1.8	6.0
4	0.4	0.3	0.2	0.1	-7777	0.0	0.5	0.3	0.1	-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	0.1	-7777	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.1	0.9	0.7	0.2	-7777	0.0	2.4	1.4	0.6	-7777	0.0	0.5	2.0
12	5.2	1.7	1.5	0.6	0.2	0.0	8.9	5.8	3.6	0.9	0.0	4.5	8.0
Summary	19.9	8.6	7.3	2.7	1.2	0.0	35.5	23.3	13.1	2.9	1.0	14.3	28.9

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Station: **GENEVA, NE US**

GHCND:USC00253175

Elev: 1631 ft. Lat: 40.531° N Lon: 97.596° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	40	156	392	705	963	1130	1072	793	453	130	16
45	4	15	84	267	551	813	975	917	644	317	70	4
50	1	4	40	163	399	663	820	762	497	197	31	1
55	-7777	1	15	87	261	513	665	607	356	105	10	-7777
60	0	-7777	4	40	148	366	510	453	228	46	3	0
Growing Degree Units for Corn (Monthly)												
50/86	18	34	114	246	427	641	768	724	505	274	86	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	56	212	604	1309	2272	3402	4474	5267	5720	5850	5866
45	4	19	103	370	921	1734	2709	3626	4270	4587	4657	4661
50	1	5	45	208	607	1270	2090	2852	3349	3546	3577	3578
55	-7777	1	16	103	364	877	1542	2149	2505	2610	2620	-7777
60	0	-7777	4	44	192	558	1068	1521	1749	1795	1798	1798
Growing Degree Units for Corn (Monthly)												
50/86	18	52	166	412	839	1480	2248	2972	3477	3751	3837	3851

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

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

Station: **HARRISON 20 SSE, NE US**

GHCND:USW00094077
 Elev: 4406 ft. Lat: 42.425° N Lon: 103.736° 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	39.1	10.6	24.8				0	0	0	0	0	0	935	997	1090	1245	0.0	0.0	6.1	8.1	30.1	6.6
2	41.7	13.3	27.5				0	0	0	0	0	0	769	825	910	1050	0.0	0.0	6.6	5.0	27.6	3.3
3	50.1	21.0	35.6				-7777	-7777	0	0	0	0	604	665	758	913	0.0	0.0	16.4	2.9	28.3	0.4
4	58.3	28.6	43.5				7	4	2	-7777	0	0	353	410	498	647	0.0	0.0	22.3	0.6	19.6	0.0
5	67.8	38.4	53.1				64	42	21	5	-7777	-7777	123	163	235	374	0.0	0.3	29.0	0.0	5.8	0.0
6	78.1	46.9	62.5				241	193	128	51	15	9	16	28	53	126	0.0	2.6	30.0	0.0	0.4	0.0
7	86.7	52.7	69.7				455	395	305	167	61	34	-7777	2	5	21	1.2	10.0	31.0	0.0	0.0	0.0
8	85.5	50.8	68.2				409	349	265	139	50	29	2	4	13	42	0.6	9.3	31.0	0.0	0.0	0.0
9	76.4	39.5	58.0				145	110	68	24	4	2	57	82	130	235	0.0	3.1	29.9	0.0	5.1	0.0
10	62.1	28.1	45.1				11	5	1	-7777	0	0	318	374	462	617	0.0	0.0	25.7	0.4	21.4	0.0
11	48.2	17.2	32.7				-7777	-7777	-7777	0	0	0	669	729	819	969	0.0	0.0	13.4	3.5	28.2	1.0
12	38.5	8.6	23.6				0	0	0	0	0	0	974	1036	1129	1284	0.0	0.0	5.8	9.5	30.9	7.8
Summary	61.0	29.6	45.4	9999	9999	9999	1332	1098	790	386	130	74	4820	5315	6102	7523	1.8	25.3	247.2	30.0	197.4	19.1

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Station: **HARRISON 20 SSE, NE US**

GHCND:USW00094077
Elev: 4406 ft. Lat: 42.425° N Lon: 103.736° 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	0.30	@	@	@	@			
2	0.57	@	@	@	@			
3	1.02	@	@	@	@			
4	1.74	@	@	@	@			
5	2.77	@	@	@	@			
6	2.53	@	@	@	@			
7	2.00	@	@	@	@			
8	1.83	@	@	@	@			
9	1.46	@	@	@	@			
10	1.17	@	@	@	@			
11	0.54	@	@	@	@			
12	0.46	@	@	@	@			
Summary	16.39	9999	9999	9999	9999	9999	9999	9999

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GHCND:USW00094077
Elev: 4406 ft. Lat: 42.425° N Lon: 103.736° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	6	57	159	411	675	920	872	539	205	34	4
45	1	1	24	79	272	525	765	717	392	107	12	-7777
50	0	-7777	7	29	148	377	610	562	255	44	2	0
55	0	0	-7777	7	64	241	455	409	145	11	-7777	0
60	0	0	0	2	21	128	305	265	68	1	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	19	83	151	281	429	581	555	389	208	68	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	12	69	228	639	1314	2234	3106	3645	3850	3884	3888
45	1	2	26	105	377	902	1667	2384	2776	2883	2895	-7777
50	0	-7777	7	36	184	561	1171	1733	1988	2032	2034	2034
55	0	0	-7777	7	71	312	767	1176	1321	1332	-7777	1332
60	0	0	0	2	23	151	456	721	789	790	-7777	790
Growing Degree Units for Corn (Monthly)												
50/86	19	38	121	272	553	982	1563	2118	2507	2715	2783	2800

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: **PURDUM, NE US**

GHCND:USC00256970
Elev: 2690 ft. Lat: 42.065° N Lon: 100.247° 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	10.7	24.2	6.6	5.3	5.7	0	0	0	0	0	0	955	1017	1110	1265	0.0	0.0	6.7	10.5	30.8	6.3
2	42.0	14.0	28.0	6.4	5.4	5.8	-7777	-7777	0	0	0	0	756	812	896	1036	0.0	0.0	8.7	7.4	27.2	3.9
3	50.6	22.9	36.8	5.2	4.2	4.3	6	3	1	-7777	0	0	571	631	722	876	0.0	0.0	16.4	3.6	25.7	0.9
4	61.3	32.6	47.0	4.9	2.9	3.6	38	26	14	3	-7777	-7777	280	328	405	545	0.0	0.2	23.2	0.5	14.4	0.0
5	71.1	44.3	57.7	3.5	2.5	2.7	152	117	74	26	6	2	69	95	145	253	-7777	0.7	30.2	0.0	2.2	0.0
6	80.5	54.1	67.3	3.4	2.5	2.6	374	318	237	123	47	28	5	9	18	54	0.1	3.5	30.0	0.0	-7777	0.0
7	87.4	59.9	73.6	3.2	2.2	2.5	578	516	424	275	146	103	-7777	-7777	1	7	0.9	11.8	31.0	0.0	0.0	0.0
8	85.5	57.9	71.7	3.4	2.3	2.7	519	458	368	226	109	73	1	2	6	19	0.5	9.2	31.0	0.0	0.0	0.0
9	76.8	47.2	62.0	3.5	2.8	2.7	248	203	143	68	24	14	38	53	83	158	0.1	3.3	29.6	0.0	1.2	0.0
10	64.4	34.0	49.2	4.1	2.2	2.8	50	34	18	4	-7777	-7777	230	276	352	493	0.0	0.4	26.7	0.4	12.0	0.0
11	49.1	21.4	35.3	6.7	3.9	5.0	2	1	-7777	-7777	0	0	595	653	743	892	0.0	0.0	14.1	3.9	26.4	0.8
12	38.5	11.3	24.9	6.8	5.5	5.9	-7777	0	0	0	0	0	933	995	1088	1243	0.0	0.0	7.2	10.2	30.8	4.9
Summary	62.1	34.2	48.1	4.8	3.5	3.9	1967	1676	1279	725	332	220	4433	4871	5569	6841	1.6	29.1	254.8	36.5	170.7	16.8

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Station: **PURDUM, NE US**

GHCND:USC00256970

Elev: 2690 ft. Lat: 42.065° N Lon: 100.247° 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	0.47	2.2	1.4	0.3	0.0	0.21	0.33	0.65
2	0.71	2.7	1.9	0.4	0.1	0.29	0.52	1.01
3	1.39	4.2	3.1	1.0	0.2	0.66	1.21	1.90
4	2.47	6.4	5.0	1.8	0.6	1.28	2.43	3.39
5	3.70	8.4	6.6	2.9	1.4	2.37	3.74	5.30
6	3.85	8.0	6.2	2.5	1.1	2.38	2.90	5.45
7	2.80	6.6	5.3	2.0	0.8	1.28	2.86	4.24
8	2.25	5.7	4.7	1.7	0.6	1.52	2.13	2.77
9	2.29	5.0	3.9	1.5	0.6	0.99	1.98	2.83
10	1.89	4.2	3.4	1.3	0.3	0.76	1.44	2.74
11	0.85	2.6	2.1	0.5	0.2	0.15	0.71	1.37
12	0.54	2.3	1.5	0.2	-7777	0.11	0.37	0.76
Summary	23.21	58.3	45.1	16.1	5.9	12.00	20.62	32.41

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GHCND:USC00256970
 Elev: 2690 ft. Lat: 42.065° N Lon: 100.247° 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	2.2	1.4	0.6	0.2	0.0	@	@	@	@	1.0	2.8	8.2
2	4.8	2.2	1.6	0.7	0.2	0.0	@	@	@	@	2.3	4.9	7.0
3	6.8	2.8	2.1	0.9	0.3	-7777	@	@	@	@	1.6	6.7	10.2
4	3.7	1.4	1.0	0.6	0.3	0.1	@	@	@	@	0.0	1.3	7.6
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	0.1	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.6	0.6	0.5	0.1	0.1	0.0	@	@	@	@	0.0	0.0	2.2
11	5.0	1.5	1.3	0.6	0.2	0.0	@	@	@	@	0.5	1.5	8.0
12	4.3	2.1	1.5	0.6	0.3	-7777	@	@	@	@	0.0	3.1	6.0
Summary	31.0	12.8	9.4	4.1	1.6	0.1	9999	9999	9999	9999	5.4	20.3	49.2

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Station: **PURDUM, NE US**

GHCND:USC00256970
Elev: 2690 ft. Lat: 42.065° N Lon: 100.247° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	25	96	258	550	819	1043	982	661	318	75	10
45	1	8	46	159	400	669	888	827	516	202	34	2
50	-7777	1	18	85	264	520	733	673	374	111	11	-7777
55	0	-7777	6	38	152	374	578	519	248	50	2	-7777
60	0	0	1	14	74	237	424	368	143	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	24	40	101	196	342	521	679	637	422	239	84	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	34	130	388	938	1757	2800	3782	4443	4761	4836	4846
45	1	9	55	214	614	1283	2171	2998	3514	3716	3750	3752
50	-7777	1	19	104	368	888	1621	2294	2668	2779	2790	-7777
55	0	-7777	6	44	196	570	1148	1667	1915	1965	1967	-7777
60	0	0	1	15	89	326	750	1118	1261	1279	-7777	1279
Growing Degree Units for Corn (Monthly)												
50/86	24	64	165	361	703	1224	1903	2540	2962	3201	3285	3310

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: **CURTIS 3 NNE, NE US**

GHCND:USC00252100
Elev: 2720 ft. Lat: 40.674° N Lon: 100.494° 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	12.1	25.9	6.0	4.5	5.0	-7777	0	0	0	0	0	904	966	1059	1214	0.0	0.0	7.9	9.6	30.7	4.1
2	43.3	15.2	29.3	6.7	4.8	5.3	-7777	-7777	0	0	0	0	721	777	861	1001	0.0	0.0	10.3	6.7	27.3	3.0
3	53.1	23.5	38.3	4.6	3.4	3.5	6	3	1	-7777	0	0	523	583	674	828	0.0	0.0	18.5	2.7	26.0	0.7
4	63.6	33.5	48.6	4.6	3.1	3.3	44	31	17	4	-7777	-7777	238	284	360	497	0.0	0.3	25.4	0.2	13.5	0.0
5	72.8	45.1	59.0	3.7	2.7	2.8	176	137	88	32	7	4	54	77	121	220	0.0	1.3	30.5	0.0	2.1	0.0
6	83.1	55.8	69.5	4.0	2.8	3.0	437	380	296	172	78	52	4	6	13	38	0.9	6.8	30.0	0.0	0.0	0.0
7	89.3	61.1	75.2	3.4	2.1	2.5	626	564	472	320	181	133	-7777	-7777	1	4	2.6	15.0	31.0	0.0	0.0	0.0
8	87.3	58.7	73.0	3.6	2.2	2.7	558	497	406	259	131	92	1	1	3	11	1.5	11.7	31.0	0.0	0.0	0.0
9	79.2	47.5	63.4	3.9	2.7	2.9	278	230	166	83	30	18	27	40	66	132	0.1	5.0	29.6	0.0	1.4	0.0
10	66.2	34.6	50.4	4.4	2.7	3.0	54	37	18	4	1	-7777	197	241	316	457	0.0	0.3	27.9	0.3	11.1	0.0
11	50.8	22.3	36.6	6.2	3.8	4.5	3	1	-7777	-7777	0	0	556	615	704	853	0.0	0.0	16.0	3.4	24.9	0.7
12	39.7	13.1	26.4	6.3	5.2	5.5	0	0	0	0	0	0	886	948	1041	1196	0.0	0.0	7.1	8.1	30.8	3.6
Summary	64.0	35.2	49.6	4.8	3.3	3.7	2182	1880	1464	874	428	299	4111	4538	5219	6451	5.1	40.4	265.2	31.0	167.8	12.1

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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: **CURTIS 3 NNE, NE US**

GHCND:USC00252100

Elev: 2720 ft. Lat: 40.674° N Lon: 100.494° 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	0.41	2.6	1.1	0.2	-7777	0.13	0.24	0.60
2	0.48	3.8	2.0	0.1	-7777	0.16	0.40	0.66
3	1.21	5.5	3.0	0.7	0.1	0.54	0.88	1.72
4	2.15	6.6	4.5	1.2	0.5	0.99	2.01	2.89
5	3.29	9.1	6.3	2.1	0.5	1.92	3.07	4.63
6	3.65	8.4	6.0	2.8	0.9	2.50	3.26	5.08
7	2.93	7.5	5.2	2.1	0.7	1.76	2.55	3.98
8	2.87	6.6	4.1	1.9	0.8	1.32	3.05	3.83
9	1.64	5.0	3.4	1.1	0.5	0.80	1.29	2.10
10	1.70	5.3	3.2	1.0	0.4	0.66	1.65	2.07
11	0.81	3.8	1.9	0.4	0.1	0.30	0.69	1.30
12	0.45	2.7	1.0	0.3	0.1	0.06	0.28	0.72
Summary	21.59	66.9	41.7	13.9	4.6	11.14	19.37	29.58

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

Station: CURTIS 3 NNE, NE US

GHCND:USC00252100
 Elev: 2720 ft. Lat: 40.674° N Lon: 100.494° 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	6.6	2.5	1.8	0.5	0.3	0.2	9.1	4.9	2.7	0.9	1.2	5.3	12.0
2	4.1	2.7	2.0	0.7	0.2	0.0	7.9	4.0	1.9	-7777	2.0	3.5	6.5
3	5.9	2.6	2.2	0.6	0.2	0.0	4.0	2.0	0.7	0.1	4.0	6.0	7.0
4	2.2	1.0	0.9	0.3	0.1	0.0	0.8	0.3	0.1	0.0	0.0	0.0	5.0
5	0.0	-7777	-7777	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	0.3	-7777	-7777	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	0.8	0.4	0.3	0.1	-7777	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0
11	3.3	1.7	1.3	0.3	0.1	0.0	2.5	0.9	0.4	0.0	0.5	2.3	5.5
12	5.4	2.3	1.7	0.7	0.3	0.0	7.3	3.7	1.6	0.2	2.5	5.0	8.7
Summary	28.6	13.2	10.2	3.2	1.2	0.2	32.1	15.9	7.5	1.2	10.2	22.1	44.7

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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: CURTIS 3 NNE, NE US

GHCND:USC00252100

Elev: 2720 ft. Lat: 40.674° N Lon: 100.494° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	24	109	288	588	883	1091	1023	701	346	86	7
45	2	7	50	180	438	734	936	868	554	223	40	1
50	-7777	1	19	98	296	584	781	713	411	123	13	-7777
55	-7777	-7777	6	44	176	437	626	558	278	54	3	0
60	0	0	1	17	88	296	472	406	166	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	28	47	121	221	368	562	704	656	450	263	95	23

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	35	144	432	1020	1903	2994	4017	4718	5064	5150	5157
45	2	9	59	239	677	1411	2347	3215	3769	3992	4032	4033
50	-7777	1	20	118	414	998	1779	2492	2903	3026	3039	-7777
55	-7777	-7777	6	50	226	663	1289	1847	2125	2179	2182	2182
60	0	0	1	18	106	402	874	1280	1446	1464	-7777	1464
Growing Degree Units for Corn (Monthly)												
50/86	28	75	196	417	785	1347	2051	2707	3157	3420	3515	3538

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: **BRUNING, NE US**

GHCND:USC00251240

Elev: 1581 ft. Lat: 40.333° N Lon: 97.565° 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	0.61	4.5	2.1	0.2	0.0	0.31	0.60	0.87
2	0.67	4.6	2.2	0.2	0.0	0.29	0.55	1.00
3	1.99	6.9	4.3	1.2	0.4	0.82	1.76	2.71
4	2.63	8.9	5.6	1.6	0.5	1.56	2.44	3.17
5	4.68	11.6	8.1	3.3	1.3	2.87	4.82	6.13
6	4.43	9.7	6.5	2.7	1.3	2.78	4.40	5.29
7	3.57	8.7	5.9	2.2	1.0	1.61	2.98	4.41
8	3.53	8.4	5.6	2.2	1.0	2.33	3.20	4.25
9	3.30	7.0	4.7	2.0	0.9	1.70	2.80	4.43
10	2.07	6.6	3.8	1.1	0.4	0.87	1.56	3.01
11	1.34	5.0	2.6	1.0	0.2	0.51	1.07	2.20
12	0.90	4.4	2.3	0.5	0.1	0.32	0.66	1.31
Summary	29.72	86.3	53.7	18.2	7.1	15.97	26.84	38.78

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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: **BRUNING, NE US**

GHCND:USC00251240
Elev: 1581 ft. Lat: 40.333° N Lon: 97.565° 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	2.9	2.3	0.6	0.1	0.0	13.0	5.2	2.2	0.4	2.0	4.2	7.5
2	5.1	2.9	1.9	0.7	0.2	0.0	10.0	5.0	1.6	0.7	2.0	4.1	7.3
3	3.6	1.5	1.4	0.4	0.2	0.1	3.7	1.6	0.9	0.3	0.7	3.0	4.0
4	0.7	0.4	0.4	-7777	0.0	0.0	0.6	0.2	0.1	0.0	0.0	0.0	1.0
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.7	0.1	0.1	0.1	-7777	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.0	1.2	0.9	0.3	0.1	0.0	2.3	0.7	0.1	0.0	0.0	1.0	3.5
12	4.5	2.3	1.9	0.7	0.1	0.0	9.5	4.3	2.1	0.2	1.0	4.0	6.3
Summary	21.8	11.3	8.9	2.8	0.7	0.1	39.4	17.2	7.1	1.7	5.7	16.3	29.6

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **FULLERTON, NE US**

GHCND:USC00253075

Elev: 1650 ft. Lat: 41.359° N Lon: 97.976° 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	0.52	3.9	1.5	0.2	0.0	0.22	0.41	0.63
2	0.63	4.4	1.9	0.1	0.0	0.25	0.66	0.89
3	2.04	6.3	4.1	1.1	0.6	0.67	1.76	3.07
4	2.67	8.3	5.6	2.0	0.5	1.62	2.51	3.42
5	4.53	10.5	7.8	2.8	1.0	3.15	4.00	6.12
6	4.37	10.1	6.8	2.8	1.4	2.44	3.93	6.53
7	3.05	7.2	5.1	1.8	0.6	1.88	2.66	3.77
8	2.99	7.2	4.6	2.0	0.6	1.63	2.28	3.75
9	2.89	6.7	4.5	1.9	0.8	1.67	2.75	3.67
10	2.01	6.4	4.5	1.1	0.4	1.10	1.63	2.95
11	1.24	4.2	2.6	0.8	0.2	0.31	0.94	2.07
12	0.74	3.7	2.1	0.5	0.0	0.21	0.61	1.13
Summary	27.68	78.9	51.1	17.1	6.1	15.15	24.14	38.00

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-4444: year-round risk of frost-freeze

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

Station: FULLERTON, NE US

GHCND:USC00253075
 Elev: 1650 ft. Lat: 41.359° N Lon: 97.976° 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	2.9	2.2	0.9	0.4	0.0	11.3	5.7	2.9	0.7	3.0	5.0	8.5
2	6.2	3.3	2.6	0.9	0.3	0.0	10.9	6.8	3.2	0.7	2.5	5.8	8.0
3	4.6	1.8	1.5	0.5	0.4	-7777	4.2	2.0	1.1	0.3	0.0	1.5	8.6
4	1.4	0.5	0.5	0.1	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	1.5
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	-7777	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.2	0.2	0.1	-7777	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
11	2.9	1.7	1.3	0.4	0.2	0.0	2.6	0.7	0.4	0.2	0.0	1.5	4.8
12	5.8	2.6	2.3	0.8	0.2	0.0	10.0	5.8	3.1	0.8	1.0	5.5	8.5
Summary	27.3	13.1	10.6	3.7	1.6	0.0	39.9	21.4	10.8	2.7	6.5	19.3	39.9

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 -4444: year-round risk of frost-freeze
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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: **OSHKOSH, NE US**

GHCND:USC00256385
Elev: 3389 ft. Lat: 41.401° N Lon: 102.346° 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	11.0	25.3	5.9	4.6	5.0	0	0	0	0	0	0	922	984	1077	1232	0.0	0.0	6.7	8.3	31.0	5.3
2	43.7	14.4	29.1	6.5	4.8	5.3	-7777	-7777	0	0	0	0	727	783	867	1006	0.0	0.0	9.8	5.5	27.5	2.9
3	52.3	22.4	37.4	4.5	2.9	3.4	2	1	-7777	0	0	0	549	610	702	857	0.0	0.0	18.1	2.8	27.2	0.8
4	61.9	31.2	46.6	4.5	2.7	3.2	28	18	8	2	-7777	-7777	281	331	411	555	0.0	0.1	24.5	0.5	16.2	0.0
5	70.9	42.7	56.8	3.7	2.4	2.7	137	103	62	20	3	1	82	109	161	274	0.0	0.6	30.1	0.0	3.2	0.0
6	81.5	53.0	67.2	3.8	2.5	2.8	374	318	238	127	51	32	6	10	21	59	0.4	5.6	29.9	0.0	-7777	0.0
7	88.8	59.4	74.1	2.7	1.6	1.9	592	530	438	287	152	107	-7777	-7777	1	5	1.6	14.3	31.0	0.0	0.0	0.0
8	86.7	57.1	71.9	2.9	2.2	2.4	524	463	372	227	105	67	1	1	3	14	0.5	10.6	31.0	0.0	0.0	0.0
9	77.6	46.0	61.8	3.4	2.7	2.7	238	193	134	59	18	9	34	49	80	155	0.0	3.7	29.5	0.0	1.8	0.0
10	64.7	32.5	48.6	3.8	2.5	2.5	33	20	8	1	-7777	-7777	232	280	362	510	0.0	0.2	26.9	0.4	13.9	0.1
11	50.2	20.0	35.1	6.1	3.1	4.3	1	-7777	-7777	0	0	0	598	657	747	897	0.0	0.0	15.2	3.0	27.5	1.1
12	39.1	10.4	24.7	6.4	4.6	5.3	0	0	0	0	0	0	938	1000	1093	1248	0.0	0.0	6.9	8.8	30.9	5.0
Summary	63.1	33.3	48.2	4.5	3.1	3.5	1929	1646	1260	723	329	216	4370	4814	5525	6812	2.5	35.1	259.6	29.3	179.2	15.2

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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: OSHKOSH, NE US

GHCND:USC00256385
Elev: 3389 ft. Lat: 41.401° N Lon: 102.346° 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	0.22	2.0	0.8	-7777	0.0	0.05	0.14	0.35
2	0.35	2.4	1.1	0.2	0.0	0.07	0.21	0.35
3	0.94	4.2	2.3	0.5	0.1	0.33	0.81	1.30
4	1.81	6.3	3.9	1.3	0.3	0.81	1.92	2.60
5	2.89	9.6	5.7	1.9	0.5	1.72	2.50	3.66
6	2.95	9.3	5.8	2.1	0.7	1.47	2.66	4.41
7	2.85	7.4	5.0	2.1	0.7	1.70	3.07	3.94
8	1.96	6.7	4.6	1.2	0.3	1.05	1.81	2.60
9	1.61	5.5	3.4	1.0	0.3	0.58	1.57	2.44
10	1.25	4.8	2.7	0.7	0.2	0.59	0.94	1.84
11	0.50	2.7	1.5	0.2	-7777	0.14	0.41	0.77
12	0.37	2.0	1.0	0.1	-7777	0.05	0.21	0.42
Summary	17.70	62.9	37.8	11.3	3.1	8.56	16.25	24.68

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Station: OSHKOSH, NE US

GHCND:USC00256385
Elev: 3389 ft. Lat: 41.401° N Lon: 102.346° 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	1.8	1.4	0.5	0.1	-7777	9.9	7.2	4.3	1.4	0.6	3.0	5.5
2	3.8	1.9	1.4	0.5	0.2	0.0	6.3	4.2	2.6	0.7	1.0	3.0	5.0
3	4.1	1.7	1.6	0.6	0.2	0.0	3.0	1.6	0.8	-7777	1.0	4.0	6.5
4	2.8	0.8	0.7	0.3	0.2	-7777	0.8	0.5	0.2	0.0	0.0	1.0	4.0
5	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
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	0.2	0.1	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	1.1	0.4	0.4	0.2	0.1	0.0	0.7	0.5	0.1	0.0	0.0	0.0	0.5
11	3.6	1.4	1.3	0.6	0.2	-7777	3.3	1.7	0.5	0.3	0.3	2.5	6.0
12	4.6	2.0	1.6	0.6	0.3	-7777	9.4	6.5	4.2	1.4	1.5	3.0	8.0
Summary	24.0	10.2	8.5	3.3	1.3	0.0	33.4	22.2	12.7	3.8	4.4	16.5	35.5

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Federal Building
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Station: OSHKOSH, NE US

GHCND:USC00256385
Elev: 3389 ft. Lat: 41.401° N Lon: 102.346° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	18	85	239	522	817	1057	989	655	298	63	6
45	1	4	33	139	375	668	902	834	509	181	25	1
50	-7777	1	10	69	243	519	747	679	367	90	6	-7777
55	0	-7777	2	28	137	374	592	524	238	33	1	0
60	0	0	-7777	8	62	238	438	372	134	8	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	23	42	108	200	332	514	676	634	424	243	89	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	24	109	348	870	1687	2744	3733	4388	4686	4749	4755
45	1	5	38	177	552	1220	2122	2956	3465	3646	3671	3672
50	-7777	1	11	80	323	842	1589	2268	2635	2725	2731	-7777
55	0	-7777	2	30	167	541	1133	1657	1895	1928	1929	1929
60	0	0	-7777	8	70	308	746	1118	1252	1260	-7777	1260
Growing Degree Units for Corn (Monthly)												
50/86	23	65	173	373	705	1219	1895	2529	2953	3196	3285	3309

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: **POTTER, NE US**

GHCND:USC00256880

Elev: 4429 ft. Lat: 41.218° N Lon: 103.321° 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	0.23	3.2	0.7	0.1	0.0	0.10	0.18	0.35
2	0.45	4.4	1.6	0.1	0.0	0.22	0.35	0.71
3	1.00	6.0	3.0	0.4	0.2	0.44	0.81	1.19
4	1.58	7.3	3.8	0.8	0.1	0.83	1.33	2.36
5	2.41	10.1	5.5	1.6	0.5	1.37	1.94	3.03
6	2.75	9.6	6.1	1.8	0.4	1.61	2.25	3.60
7	2.52	8.7	4.9	1.6	0.6	1.85	2.26	2.83
8	2.23	7.3	4.6	1.3	0.3	1.25	2.06	3.22
9	1.31	6.1	3.4	0.9	0.1	0.81	1.24	1.61
10	1.20	5.3	2.8	0.7	-7777	0.49	0.92	1.69
11	0.58	4.0	2.0	0.2	0.0	0.20	0.55	0.96
12	0.42	3.7	1.3	0.1	0.0	0.19	0.31	0.64
Summary	16.68	75.7	39.7	9.6	2.2	9.36	14.20	22.19

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 Asheville, North Carolina 28801
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Station: **POTTER, NE US**

GHCND:USC00256880
 Elev: 4429 ft. Lat: 41.218° N Lon: 103.321° 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	2.9	1.5	0.3	0.1	-7777	10.0	5.9	3.6	1.1	1.5	2.5	5.5
2	6.8	4.0	2.1	0.7	0.3	0.1	8.2	3.6	1.7	0.5	2.7	5.2	10.8
3	7.2	4.0	2.8	0.8	0.2	0.0	6.7	3.4	1.7	0.3	3.3	6.1	8.3
4	5.1	2.0	1.5	0.7	0.3	-7777	2.4	1.3	0.7	-7777	1.0	4.3	7.0
5	0.4	0.2	0.1	-7777	0.0	0.0	0.1	-7777	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	0.6	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
10	2.1	0.8	0.7	0.3	0.2	0.0	1.0	0.3	0.2	0.0	0.0	0.5	3.5
11	5.0	3.1	1.9	1.0	0.3	0.0	6.7	3.3	1.8	0.1	1.8	4.0	8.0
12	5.9	3.1	2.0	0.7	0.4	0.0	10.3	6.8	4.5	1.2	1.0	5.5	8.3
Summary	37.3	20.3	12.8	4.6	1.8	0.1	45.6	24.7	14.2	3.2	11.3	28.1	51.4

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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: **HARLAN CO LAKE, NE US**

GHCND:USC00253595
 Elev: 2001 ft. Lat: 40.089° N Lon: 99.213° 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	13.4	25.7	6.3	4.6	5.2	0	0	0	0	0	0	907	969	1062	1217	0.0	0.0	6.7	10.4	30.6	3.8
2	43.7	16.8	30.2	7.0	5.1	5.7	-7777	-7777	-7777	0	0	0	693	749	833	973	0.0	0.0	9.9	6.1	26.1	3.0
3	53.9	26.4	40.1	4.5	3.8	3.7	9	5	2	-7777	0	0	470	528	617	771	0.0	0.0	18.9	2.1	22.6	0.6
4	64.3	36.7	50.5	4.5	2.9	3.3	62	44	25	8	1	1	197	239	310	443	0.0	0.3	25.7	0.1	9.0	0.0
5	73.0	48.3	60.7	3.5	2.5	2.7	213	169	112	45	11	5	38	56	92	180	-7777	1.1	30.7	0.0	0.5	0.0
6	83.3	58.5	70.9	3.9	2.7	3.2	479	421	335	205	103	71	2	4	8	28	0.6	6.4	30.0	0.0	0.0	0.0
7	89.4	64.2	76.8	3.2	2.1	2.4	676	614	521	368	223	172	0	-7777	-7777	2	2.9	15.3	31.0	0.0	0.0	0.0
8	87.4	62.0	74.7	3.9	2.6	3.1	611	549	457	307	174	129	-7777	-7777	1	7	2.0	11.9	31.0	0.0	0.0	0.0
9	79.5	51.6	65.5	3.4	2.9	2.8	335	283	213	117	51	34	18	27	47	101	0.2	4.7	29.8	0.0	0.5	0.0
10	66.8	38.3	52.5	3.9	2.5	2.7	82	59	34	10	2	1	158	196	265	396	0.0	0.5	27.9	0.1	7.2	0.0
11	52.0	25.8	38.9	5.9	3.5	4.3	6	3	1	-7777	0	0	489	546	634	783	0.0	0.0	17.6	2.1	22.7	0.2
12	39.6	15.4	27.5	6.3	5.4	5.7	0	0	0	0	0	0	852	914	1007	1162	0.0	0.0	7.2	8.7	30.4	2.9
Summary	64.3	38.1	51.2	4.7	3.4	3.7	2473	2147	1700	1060	565	413	3824	4228	4876	6063	5.7	40.2	266.4	29.6	149.6	10.5

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Station: **HARLAN CO LAKE, NE US**

GHCND:USC00253595

Elev: 2001 ft. Lat: 40.089° N Lon: 99.213° 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	0.42	2.7	1.3	0.1	0.0	0.18	0.34	0.74
2	0.47	3.3	1.6	0.1	-7777	0.16	0.40	0.78
3	1.67	4.3	3.0	0.9	0.4	0.53	1.37	2.74
4	2.13	7.6	4.6	1.2	0.4	1.16	2.04	2.62
5	4.23	10.5	7.3	2.7	1.1	2.46	3.80	5.67
6	3.28	9.5	6.1	2.2	0.7	1.94	2.62	4.47
7	3.64	7.8	5.5	2.5	1.0	1.77	3.23	4.65
8	3.02	8.1	5.2	2.0	0.9	1.41	2.66	4.00
9	1.94	6.0	3.8	1.0	0.4	0.86	1.37	2.57
10	1.94	5.6	3.3	1.3	0.5	0.77	1.34	2.41
11	0.88	3.4	2.0	0.5	0.1	0.32	0.72	1.51
12	0.87	3.0	1.5	0.6	0.3	0.06	0.43	0.84
Summary	24.49	71.8	45.2	15.1	5.8	11.62	20.32	33.00

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Station: **HARLAN CO LAKE, NE US**

GHCND:USC00253595

Elev: 2001 ft. Lat: 40.089° N Lon: 99.213° 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	2.1	1.3	0.6	0.2	0.0	@	@	@	@	0.7	2.9	5.3
2	3.9	1.9	1.7	0.8	0.1	0.0	@	@	@	@	0.0	2.5	7.0
3	2.2	0.9	0.6	0.3	0.1	0.0	@	@	@	@	0.0	0.0	4.7
4	0.6	0.3	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	0.9	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	2.0	1.0	0.8	0.4	0.2	0.0	@	@	@	@	0.0	0.7	5.0
12	2.9	1.1	1.0	0.4	0.1	0.0	@	@	@	@	0.0	2.5	4.8
Summary	16.4	7.4	5.7	2.6	0.7	0.0	9999	9999	9999	9999	0.7	8.6	26.8

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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: **HARLAN CO LAKE, NE US**

GHCND:USC00253595
Elev: 2001 ft. Lat: 40.089° N Lon: 99.213° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	33	137	336	640	927	1141	1075	767	404	108	10
45	2	11	70	217	488	777	986	921	619	274	54	1
50	-7777	2	29	125	341	627	831	766	473	164	20	-7777
55	0	-7777	9	62	213	479	676	611	335	82	6	0
60	0	-7777	2	25	112	335	521	457	213	34	1	0
Growing Degree Units for Corn (Monthly)												
50/86	23	47	126	231	387	599	751	704	486	275	98	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	43	180	516	1156	2083	3224	4299	5066	5470	5578	5588
45	2	13	83	300	788	1565	2551	3472	4091	4365	4419	4420
50	-7777	2	31	156	497	1124	1955	2721	3194	3358	3378	-7777
55	0	-7777	9	71	284	763	1439	2050	2385	2467	2473	2473
60	0	-7777	2	27	139	474	995	1452	1665	1699	1700	1700
Growing Degree Units for Corn (Monthly)												
50/86	23	70	196	427	814	1413	2164	2868	3354	3629	3727	3748

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: **ROCA 6 NNE, NE US**

GHCND:USC00257246

Elev: 1240 ft. Lat: 40.656° N Lon: 96.660° 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	0.64	4.2	1.7	0.2	0.0	0.22	0.46	1.01
2	0.78	5.0	2.0	0.3	-7777	0.45	0.65	1.11
3	2.25	7.0	4.2	1.8	0.4	1.04	2.23	3.28
4	3.04	9.0	5.8	1.7	0.7	1.97	2.60	3.93
5	5.03	12.1	8.4	3.7	1.3	3.09	4.44	6.44
6	4.59	9.7	6.9	3.1	1.4	2.79	4.18	6.71
7	3.93	8.0	5.5	2.7	1.1	2.34	3.49	4.28
8	3.60	8.3	5.5	2.4	1.2	2.43	3.10	4.68
9	3.11	6.9	4.7	2.0	0.9	2.13	2.83	4.20
10	2.16	6.4	4.2	1.5	0.7	1.02	1.51	2.97
11	1.59	6.3	3.4	1.3	0.4	0.85	1.41	2.06
12	1.02	5.2	2.3	0.4	0.1	0.38	0.79	1.66
Summary	31.74	88.1	54.6	21.1	8.2	18.71	27.69	42.33

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 Asheville, North Carolina 28801
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Station: **ROCA 6 NNE, NE US**

GHCND:USC00257246
 Elev: 1240 ft. Lat: 40.656° N Lon: 96.660° 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	3.0	2.1	0.8	0.2	0.0	10.8	7.2	4.4	0.9	1.0	5.3	7.5
2	6.0	2.8	2.1	0.9	0.3	0.1	9.2	6.1	3.1	0.6	2.5	4.1	7.5
3	4.9	1.9	1.5	0.6	0.3	-7777	4.1	2.1	1.3	0.3	0.7	4.0	7.5
4	1.7	0.5	0.5	0.2	0.2	0.0	0.7	0.4	0.3	0.0	0.0	0.0	0.7
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	0.8	0.2	0.2	0.1	-7777	-7777	0.3	0.2	0.1	-7777	0.0	0.0	0.0
11	2.6	1.5	1.0	0.3	-7777	0.0	2.6	1.1	0.6	0.1	0.0	1.0	5.0
12	6.0	2.9	2.1	0.8	0.3	0.0	8.2	4.6	2.9	1.2	2.5	5.5	7.5
Summary	27.6	12.8	9.5	3.7	1.3	0.1	35.9	21.7	12.7	3.1	6.7	19.9	35.7

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

Station: **STANTON, NE US**

GHCND:USC00258110

Elev: 1539 ft. Lat: 41.956° N Lon: 97.222° 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	34.0	10.2	22.1	7.2	5.9	6.4	-7777	0	0	0	0	0	1020	1082	1175	1330	0.0	0.0	3.8	13.1	30.7	6.5
2	39.2	14.1	26.6	6.5	5.6	5.8	-7777	-7777	-7777	0	0	0	794	850	934	1074	0.0	0.0	6.4	8.5	26.7	4.4
3	50.5	23.8	37.1	5.7	3.4	4.2	7	4	2	-7777	-7777	-7777	560	619	710	863	0.0	-7777	16.0	2.8	24.5	0.7
4	63.1	35.5	49.3	4.9	3.2	3.7	62	46	29	11	3	1	233	277	350	482	0.0	0.5	24.9	0.1	11.3	0.0
5	73.7	48.1	60.9	3.7	3.3	3.3	223	179	121	52	16	8	40	58	93	179	0.0	1.2	30.8	0.0	1.1	0.0
6	82.6	58.3	70.5	3.4	2.6	2.8	465	406	321	191	93	63	1	3	8	28	0.1	4.9	30.0	0.0	0.0	0.0
7	86.7	63.4	75.0	3.5	2.2	2.7	621	559	466	315	178	132	0	-7777	-7777	3	0.6	10.6	31.0	0.0	0.0	0.0
8	84.7	60.8	72.8	3.6	2.6	2.9	550	489	397	252	128	90	-7777	1	2	12	0.5	7.2	31.0	0.0	0.0	0.0
9	77.4	50.5	63.9	3.3	2.5	2.5	292	243	178	92	35	21	24	35	59	123	-7777	2.3	29.8	0.0	1.0	0.0
10	65.3	37.6	51.4	3.8	2.7	2.7	67	47	26	7	2	1	177	219	291	428	0.0	0.1	28.4	0.2	9.3	0.0
11	48.3	24.4	36.3	6.2	4.1	4.9	5	2	1	-7777	0	0	564	622	710	859	0.0	0.0	13.2	3.7	23.7	0.8
12	34.9	13.0	24.0	6.8	5.8	6.1	0	0	0	0	0	0	962	1024	1117	1272	0.0	0.0	3.5	11.7	30.2	4.8
Summary	61.7	36.6	49.2	4.9	3.7	4.0	2292	1975	1541	920	455	316	4375	4790	5449	6653	1.2	26.8	248.8	40.1	158.5	17.2

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

Station: **STANTON, NE US**

GHCND:USC00258110

Elev: 1539 ft. Lat: 41.956° N Lon: 97.222° 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	0.55	2.5	1.6	0.3	-7777	0.25	0.58	0.79
2	0.79	3.1	2.3	0.3	-7777	0.33	0.55	1.25
3	2.01	5.1	4.0	1.4	0.7	0.82	1.61	2.86
4	3.16	7.8	5.9	2.3	0.8	1.71	2.98	4.22
5	4.48	9.7	8.0	3.0	1.5	2.81	4.00	6.49
6	4.73	8.7	7.4	2.8	1.2	2.69	4.17	6.81
7	3.63	8.2	6.2	2.9	1.2	1.96	2.54	4.22
8	3.19	7.0	4.9	1.9	0.9	1.63	3.25	4.73
9	2.80	6.3	4.7	1.5	0.8	1.08	3.03	4.15
10	2.13	5.7	4.4	1.3	0.5	0.87	1.70	2.97
11	1.51	4.0	3.4	1.1	0.5	0.47	1.36	2.33
12	0.98	3.3	2.3	0.3	0.1	0.37	0.73	1.10
Summary	29.96	71.4	55.1	19.1	8.2	14.99	26.50	41.92

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151 Patton Avenue
Asheville, North Carolina 28801
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Station: **STANTON, NE US**

GHCND:USC00258110

Elev: 1539 ft. Lat: 41.956° N Lon: 97.222° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	18	103	309	648	913	1086	1015	719	375	90	6
45	1	5	51	199	495	763	931	860	571	248	47	1
50	-7777	1	21	117	349	614	776	705	426	142	19	-7777
55	-7777	-7777	7	62	223	465	621	550	292	67	5	0
60	0	-7777	2	29	121	321	466	397	178	26	1	0
Growing Degree Units for Corn (Monthly)												
50/86	12	24	95	216	402	597	727	674	460	253	73	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	24	127	436	1084	1997	3083	4098	4817	5192	5282	5288
45	1	6	57	256	751	1514	2445	3305	3876	4124	4171	4172
50	-7777	1	22	139	488	1102	1878	2583	3009	3151	3170	-7777
55	-7777	-7777	7	69	292	757	1378	1928	2220	2287	2292	2292
60	0	-7777	2	31	152	473	939	1336	1514	1540	1541	1541
Growing Degree Units for Corn (Monthly)												
50/86	12	36	131	347	749	1346	2073	2747	3207	3460	3533	3542

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: **ALLIANCE 19 WNW, NE US**

GHCND:USC00250138
 Elev: 4265 ft. Lat: 42.154° N Lon: 103.208° 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	12.0	25.5				0	0	0	0	0	0	915	977	1070	1225	0.0	0.0	5.4	8.2	30.7	4.8
2	42.6	14.0	28.3				0	0	0	0	0	0	747	803	887	1027	0.0	0.0	8.2	4.6	27.7	3.3
3	51.8	22.4	37.1				1	-7777	0	0	0	0	556	618	710	865	0.0	0.0	17.5	3.0	28.0	0.0
4	60.4	31.0	45.7				12	5	1	-7777	-7777	0	290	344	430	579	0.0	0.0	23.6	0.0	16.4	0.0
5	70.8	39.7	55.3				89	60	31	9	2	-7777	82	114	178	311	0.0	0.4	29.8	0.0	3.2	0.0
6	79.8	49.9	64.9				304	252	178	81	27	17	8	16	33	86	0.3	3.6	30.0	0.0	0.0	0.0
7	88.2	56.1	72.1				531	469	378	227	100	64	0	-7777	1	6	2.2	12.8	31.0	0.0	0.0	0.0
8	87.0	54.5	70.8				488	426	336	197	89	57	-7777	1	3	19	0.7	11.9	31.0	0.0	0.0	0.0
9	77.3	44.0	60.7				207	164	110	48	16	8	38	54	90	179	0.0	3.9	30.0	0.0	1.1	0.0
10	63.7	31.5	47.6				27	16	5	-7777	-7777	0	257	307	389	539	0.0	0.0	27.1	0.2	16.6	0.0
11	48.1	20.5	34.3				-7777	-7777	0	0	0	0	621	681	771	921	0.0	0.0	12.4	2.8	28.3	0.0
12	39.2	11.1	25.2				0	0	0	0	0	0	924	986	1080	1234	0.0	0.0	5.7	9.2	30.7	4.3
Summary	62.3	32.2	47.3	9999	9999	9999	1659	1392	1039	562	234	146	4438	4901	5642	6991	3.2	32.6	251.7	28.0	182.7	12.4

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

Station: **ALLIANCE 19 WNW, NE US**

GHCND:USC00250138
Elev: 4265 ft. Lat: 42.154° N Lon: 103.208° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	10	76	203	475	745	996	952	620	263	41	6
45	1	1	33	103	328	596	841	798	473	152	14	2
50	-7777	-7777	8	43	196	447	686	643	331	74	1	-7777
55	0	0	1	12	89	304	531	488	207	27	-7777	0
60	0	0	0	1	31	178	378	336	110	5	0	0
Growing Degree Units for Corn (Monthly)												
50/86	15	24	98	173	325	466	628	598	406	225	61	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	15	91	294	769	1514	2510	3462	4082	4345	4386	4392
45	1	2	35	138	466	1062	1903	2701	3174	3326	3340	3342
50	-7777	-7777	8	51	247	694	1380	2023	2354	2428	2429	-7777
55	0	0	1	13	102	406	937	1425	1632	1659	-7777	1659
60	0	0	0	1	32	210	588	924	1034	1039	1039	1039
Growing Degree Units for Corn (Monthly)												
50/86	15	39	137	310	635	1101	1729	2327	2733	2958	3019	3034

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: **AGATE 3 E, NE US**

GHCND:USC00250030
 Elev: 4669 ft. Lat: 42.424° N Lon: 103.735° 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	9.6	24.9	4.8	4.0	4.1	0	0	0	0	0	0	932	994	1087	1242	0.0	0.0	6.2	6.8	30.6	6.4
2	43.1	12.0	27.5	5.9	5.2	5.3	0	0	0	0	0	0	768	824	908	1048	0.0	0.0	9.1	5.1	27.6	4.3
3	52.3	20.1	36.2	5.0	3.2	3.9	1	-7777	-7777	0	0	0	584	645	738	893	0.0	0.0	18.6	2.5	28.5	1.2
4	61.6	27.9	44.7	4.5	2.4	3.0	14	8	3	-7777	-7777	0	322	376	461	608	0.0	0.1	24.3	0.4	20.7	-7777
5	70.9	37.7	54.3	3.6	2.5	2.6	90	63	33	7	1	-7777	112	146	209	339	0.0	0.5	29.9	0.0	7.3	0.0
6	80.7	46.5	63.6	3.9	2.7	2.8	272	221	152	64	19	10	14	23	44	106	0.2	4.5	30.0	0.0	1.2	0.0
7	88.7	52.4	70.5	3.2	2.1	2.4	482	421	331	190	78	46	-7777	1	4	18	1.3	15.0	31.0	0.0	0.0	0.0
8	87.6	50.4	69.0	2.2	2.4	2.1	435	375	286	151	53	29	2	3	7	27	0.4	12.7	31.0	0.0	0.4	0.0
9	78.6	39.7	59.1	3.6	2.7	2.4	176	136	84	29	5	2	52	71	109	204	0.0	3.8	29.5	0.0	6.1	0.0
10	64.5	27.8	46.1	4.2	2.3	2.5	17	9	3	-7777	-7777	-7777	292	346	432	585	0.0	0.0	26.9	0.5	21.1	0.2
11	49.5	16.4	32.9	6.7	3.8	4.9	-7777	-7777	-7777	0	0	0	662	722	811	961	0.0	0.0	14.8	3.4	28.4	2.2
12	39.3	7.8	23.6	5.7	4.6	5.0	0	0	0	0	0	0	975	1037	1130	1285	0.0	0.0	6.7	8.3	30.7	7.8
Summary	63.1	29.0	46.0	4.4	3.2	3.4	1487	1233	892	441	156	87	4715	5188	5940	7316	1.9	36.6	258.0	27.0	202.6	22.1

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-4444: year-round risk of frost-freeze

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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: **AGATE 3 E, NE US**

GHCND:USC00250030

Elev: 4669 ft. Lat: 42.424° N Lon: 103.735° 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	0.20	3.5	0.6	0.0	0.0	0.07	0.17	0.30
2	0.30	3.9	0.8	-7777	0.0	0.08	0.15	0.48
3	0.64	5.1	1.9	0.2	-7777	0.23	0.47	0.78
4	1.40	6.9	3.4	0.6	0.2	0.63	1.30	2.09
5	2.73	10.3	5.7	1.8	0.6	1.49	2.22	3.87
6	2.41	9.5	5.1	1.6	0.4	1.32	1.62	3.48
7	2.02	8.5	4.8	1.2	0.4	1.28	1.95	2.63
8	1.57	7.2	3.6	1.1	0.3	0.90	1.30	1.94
9	1.41	6.4	3.2	0.8	0.2	0.65	1.27	2.20
10	1.09	6.0	3.2	0.5	0.1	0.40	0.90	1.87
11	0.35	4.0	1.4	0.1	0.0	0.17	0.31	0.56
12	0.25	3.7	0.8	0.0	0.0	0.10	0.23	0.29
Summary	14.37	75.0	34.5	7.9	2.2	7.32	11.89	20.49

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www.ncdc.noaa.gov

Station: **AGATE 3 E, NE US**

GHCND:USC00250030
Elev: 4669 ft. Lat: 42.424° N Lon: 103.735° 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	3.1	1.4	0.3	0.0	0.0	11.3	6.0	3.8	0.7	1.4	3.0	4.4
2	4.7	3.3	2.0	0.4	0.2	0.0	8.3	3.4	2.0	0.9	1.3	2.7	7.6
3	6.0	3.5	2.4	0.8	0.2	-7777	5.5	2.9	1.6	0.1	2.3	4.0	7.7
4	4.9	2.1	1.7	0.6	0.3	0.0	2.0	1.1	0.6	0.0	1.0	5.3	7.0
5	0.8	0.4	0.4	0.1	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	1.5
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	0.3	0.1	0.1	0.1	-7777	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
10	1.6	1.2	0.8	0.3	-7777	0.0	1.1	0.4	0.1	0.0	0.0	1.2	2.2
11	4.4	2.7	1.7	0.4	0.1	0.0	5.4	2.3	1.1	0.1	1.0	2.8	5.5
12	4.3	3.8	2.2	0.5	-7777	0.0	11.6	6.3	3.5	1.6	1.4	3.7	5.6
Summary	30.4	20.2	12.7	3.5	0.8	0.0	45.4	22.5	12.7	3.4	8.4	22.7	41.5

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

Station: **AGATE 3 E, NE US**

GHCND:USC00250030
Elev: 4669 ft. Lat: 42.424° N Lon: 103.735° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	10	69	195	447	708	947	899	577	236	45	5
45	1	2	26	104	304	558	792	744	433	130	16	1
50	-7777	-7777	7	45	182	411	637	589	296	57	3	-7777
55	0	0	1	14	90	272	482	435	176	17	-7777	0
60	0	0	-7777	3	33	152	331	286	84	3	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	20	32	105	195	326	461	590	575	421	242	83	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	16	85	280	727	1435	2382	3281	3858	4094	4139	4144
45	1	3	29	133	437	995	1787	2531	2964	3094	3110	3111
50	-7777	-7777	7	52	234	645	1282	1871	2167	2224	2227	-7777
55	0	0	1	15	105	377	859	1294	1470	1487	-7777	1487
60	0	0	-7777	3	36	188	519	805	889	892	-7777	892
Growing Degree Units for Corn (Monthly)												
50/86	20	52	157	352	678	1139	1729	2304	2725	2967	3050	3069

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: **CANADAY STEAM PLANT, NE US**

GHCND:USC00251450
 Elev: 2362 ft. Lat: 40.694° N Lon: 99.701° 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	14.0	26.1	6.2	4.9	5.4	-7777	0	0	0	0	0	897	959	1052	1207	0.0	0.0	6.4	10.2	30.4	4.2
2	41.6	17.6	29.6	6.9	5.0	5.6	-7777	-7777	0	0	0	0	711	767	851	991	0.0	0.0	8.6	7.7	26.1	2.5
3	51.5	26.4	38.9	4.9	3.5	3.8	7	4	1	-7777	-7777	0	505	564	654	808	0.0	0.0	17.0	3.3	22.8	0.5
4	62.4	36.2	49.3	4.8	2.8	3.4	52	37	21	6	1	-7777	223	268	342	477	0.0	0.1	24.3	0.3	9.2	0.0
5	71.7	48.1	59.9	3.8	2.5	2.9	199	157	104	41	11	6	47	67	107	199	0.0	0.9	30.5	0.0	0.5	0.0
6	81.6	57.7	69.7	3.6	2.6	3.0	442	384	301	175	79	53	3	5	11	36	0.2	5.0	30.0	0.0	0.0	0.0
7	86.4	63.2	74.8	2.9	2.0	2.2	614	552	459	307	168	122	-7777	-7777	-7777	4	0.7	9.7	31.0	0.0	0.0	0.0
8	84.5	61.2	72.8	3.2	2.5	2.8	554	492	400	254	128	89	-7777	1	2	11	0.3	7.7	31.0	0.0	0.0	0.0
9	77.4	50.6	64.0	3.6	2.5	2.8	293	244	178	91	34	20	23	34	58	121	0.1	2.8	29.6	0.0	0.3	0.0
10	64.8	37.6	51.2	3.7	2.4	2.6	65	44	24	7	1	-7777	182	224	297	435	0.0	0.4	27.3	0.2	7.2	0.0
11	50.3	25.7	38.0	5.8	3.6	4.5	4	2	-7777	-7777	0	0	514	572	660	810	0.0	0.0	15.7	3.0	22.7	0.1
12	38.7	15.9	27.3	6.5	5.3	5.7	-7777	0	0	0	0	0	859	920	1013	1168	0.0	0.0	6.9	9.4	30.2	3.0
Summary	62.4	37.9	50.1	4.7	3.3	3.7	2230	1916	1488	881	422	290	3964	4381	5047	6267	1.3	26.6	258.3	34.1	149.4	10.3

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 -4444: year-round risk of frost-freeze
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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: **CANADAY STEAM PLANT, NE US**

GHCND:USC00251450

Elev: 2362 ft. Lat: 40.694° N Lon: 99.701° 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	0.41	2.6	1.2	0.1	0.0	0.11	0.30	0.61
2	0.46	2.7	1.4	0.2	-7777	0.18	0.41	0.64
3	1.50	4.7	3.2	0.9	0.3	0.52	1.56	2.11
4	2.09	6.2	4.1	1.6	0.5	1.02	1.62	2.87
5	3.99	9.2	6.7	2.5	1.0	2.10	3.84	5.35
6	3.71	8.4	6.6	2.5	1.0	2.87	3.54	5.03
7	3.34	7.1	5.1	2.5	1.0	1.43	3.18	5.13
8	2.95	6.1	4.7	2.0	1.1	1.64	2.61	4.58
9	1.91	4.9	3.8	1.3	0.4	0.84	1.56	2.79
10	1.83	5.1	3.8	1.1	0.3	0.80	1.60	2.34
11	0.79	3.0	2.2	0.5	-7777	0.14	0.43	1.33
12	0.46	2.4	1.3	0.2	0.1	0.02	0.23	0.63
Summary	23.44	62.4	44.1	15.4	5.7	11.67	20.88	33.41

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Station: **CANADAY STEAM PLANT, NE US**

GHCND:USC00251450
 Elev: 2362 ft. Lat: 40.694° N Lon: 99.701° 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	2.0	1.6	0.5	0.2	0.0	@	@	@	@	0.3	4.5	7.5
2	4.2	1.7	1.5	0.6	0.2	-7777	@	@	@	@	0.0	2.0	8.0
3	2.6	1.1	0.9	0.3	0.1	0.0	@	@	@	@	0.0	2.0	4.0
4	0.8	0.2	0.2	0.2	-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	0.4	0.2	0.2	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	2.6	0.7	0.7	0.3	0.3	0.0	@	@	@	@	0.0	0.5	5.0
12	4.7	1.4	1.1	0.7	0.2	0.0	@	@	@	@	0.0	3.0	10.5
Summary	20.5	7.3	6.2	2.6	1.0	0.0	9999	9999	9999	9999	0.3	12.0	35.0

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www.ncdc.noaa.gov

Station: CANADAY STEAM PLANT, NE US

GHCND:USC00251450

Elev: 2362 ft. Lat: 40.694° N Lon: 99.701° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	30	121	306	617	889	1079	1018	721	366	100	13
45	3	10	60	195	465	739	924	863	573	241	49	3
50	-7777	2	23	109	322	590	769	708	429	138	18	-7777
55	-7777	-7777	7	52	199	442	614	554	293	65	4	-7777
60	0	0	1	21	104	301	459	400	178	24	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	38	106	207	365	571	721	674	452	245	87	23

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	44	165	471	1088	1977	3056	4074	4795	5161	5261	5274
45	3	13	73	268	733	1472	2396	3259	3832	4073	4122	4125
50	-7777	2	25	134	456	1046	1815	2523	2952	3090	3108	-7777
55	-7777	-7777	7	59	258	700	1314	1868	2161	2226	2230	-7777
60	0	0	1	22	126	427	886	1286	1464	1488	-7777	1488
Growing Degree Units for Corn (Monthly)												
50/86	25	63	169	376	741	1312	2033	2707	3159	3404	3491	3514

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: **EMERALD 1 W, NE US**

GHCND:USC00252706

Elev: 1270 ft. Lat: 40.848° N Lon: 96.846° 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	0.68	4.2	2.1	0.3	0.0	0.38	0.62	1.04
2	0.75	4.4	1.9	0.1	0.0	0.33	0.61	1.24
3	2.15	6.7	4.1	1.6	0.4	1.17	1.86	3.13
4	2.79	8.2	4.8	2.0	0.8	1.84	2.49	3.64
5	4.09	11.2	7.3	2.8	0.9	2.95	3.51	5.27
6	4.36	8.6	5.7	2.5	1.3	2.27	3.44	6.38
7	3.46	9.2	6.3	2.3	1.2	2.00	2.73	4.44
8	3.60	9.3	6.4	2.6	0.9	2.47	3.23	4.19
9	3.13	8.0	5.2	2.4	0.8	1.84	3.29	4.13
10	2.20	6.6	3.8	0.9	0.4	0.99	1.67	3.04
11	1.41	6.9	3.7	1.1	0.3	0.67	1.21	2.08
12	0.96	4.8	2.4	0.5	0.1	0.30	0.69	1.39
Summary	29.58	88.1	53.7	19.1	7.1	17.21	25.35	39.97

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Station: **EMERALD 1 W, NE US**

GHCND:USC00252706
 Elev: 1270 ft. Lat: 40.848° N Lon: 96.846° 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	3.0	1.7	0.6	0.2	0.0	11.8	5.6	2.7	0.2	0.5	3.8	6.1
2	4.2	2.6	1.8	0.6	0.1	0.0	11.8	6.0	1.3	0.0	0.2	3.7	6.1
3	4.0	1.9	1.3	0.5	0.3	0.0	3.8	1.5	0.9	0.0	0.8	2.0	7.0
4	1.6	0.6	0.4	0.3	0.1	0.0	1.1	0.7	0.3	0.0	0.0	0.0	0.4
5	-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
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	2.8	2.3	0.8	0.4	0.1	0.0	3.6	1.9	0.8	0.0	0.3	1.5	3.6
12	4.7	3.4	1.7	0.7	0.1	0.0	10.5	5.5	2.5	0.7	2.8	3.9	5.6
Summary	22.1	14.0	7.8	3.1	0.9	0.0	42.7	21.2	8.5	0.9	4.6	14.9	28.8

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 -4444: year-round risk of frost-freeze
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U.S. Department of Commerce
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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: **LEWELLEN, NE US**

GHCND:USC00254755
Elev: 3327 ft. Lat: 41.330° N Lon: 102.144° 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	12.8	26.1				0	0	0	0	0	0	897	959	1052	1207	0.0	0.0	5.6	9.1	30.5	3.3
2	45.1	16.5	30.8				0	0	0	0	0	0	677	733	817	957	0.0	0.0	9.2	2.8	28.0	1.5
3	55.8	23.7	39.8				3	1	-7777	-7777	0	0	476	537	628	783	0.0	0.0	21.0	0.0	26.8	0.0
4	64.1	33.3	48.7				20	11	4	-7777	0	0	209	260	343	489	0.0	0.0	27.4	0.0	12.5	0.0
5	73.6	44.6	59.1				163	120	69	22	4	2	36	55	97	205	0.0	0.3	31.0	0.0	1.3	0.0
6	81.7	53.7	67.7				382	323	239	119	39	23	1	2	8	39	0.0	4.0	30.0	0.0	0.0	0.0
7	89.1	59.8	74.5				602	540	447	293	150	101	0	0	-7777	-7777	0.7	13.8	31.0	0.0	0.0	0.0
8	86.3	58.0	72.2				531	469	377	230	105	68	-7777	-7777	1	9	0.2	8.7	31.0	0.0	0.0	0.0
9	78.5	47.7	63.1				258	210	145	66	18	10	15	27	53	124	0.0	2.3	30.0	0.0	0.5	0.0
10	66.3	34.1	50.2				45	30	15	4	-7777	-7777	194	241	318	463	0.0	0.3	29.2	0.3	11.6	0.0
11	50.4	23.2	36.8				-7777	-7777	0	0	0	0	546	606	696	846	0.0	0.0	15.0	1.3	26.9	0.0
12	39.0	14.2	26.6				0	0	0	0	0	0	880	942	1035	1189	0.0	0.0	5.5	8.3	30.2	2.0
Summary	64.1	35.1	49.6	9999	9999	9999	2004	1704	1296	734	316	204	3931	4362	5048	6311	0.9	29.4	265.9	21.8	168.3	6.8

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

Station: **LEWELLEN, NE US**

GHCND:USC00254755
Elev: 3327 ft. Lat: 41.330° N Lon: 102.144° 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	0.38	@	@	@	@			
2	0.45	@	@	@	@			
3	1.13	@	@	@	@			
4	1.97	@	@	@	@			
5	3.01	@	@	@	@			
6	3.32	@	@	@	@			
7	2.53	@	@	@	@			
8	2.21	@	@	@	@			
9	1.71	@	@	@	@			
10	1.30	@	@	@	@			
11	0.77	@	@	@	@			
12	0.32	@	@	@	@			
Summary	19.10	9999	9999	9999	9999	9999	9999	9999

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Station: LEWELLEN, NE US

GHCND:USC00254755
Elev: 3327 ft. Lat: 41.330° N Lon: 102.144° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	7	101	274	592	831	1067	996	693	330	53	11
45	2	1	41	153	438	681	912	841	543	204	18	3
50	-7777	-7777	12	66	291	531	757	686	395	105	3	1
55	0	0	3	20	163	382	602	531	258	45	-7777	0
60	0	0	-7777	4	69	239	447	377	145	15	0	0
Growing Degree Units for Corn (Monthly)												
50/86	17	29	125	216	376	530	693	648	449	258	69	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	15	116	390	982	1813	2880	3876	4569	4899	4952	4963
45	2	3	44	197	635	1316	2228	3069	3612	3816	3834	3837
50	-7777	-7777	12	78	369	900	1657	2343	2738	2843	2846	2847
55	0	0	3	23	186	568	1170	1701	1959	2004	-7777	2004
60	0	0	-7777	4	73	312	759	1136	1281	1296	1296	1296
Growing Degree Units for Corn (Monthly)												
50/86	17	46	171	387	763	1293	1986	2634	3083	3341	3410	3430

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: **PALISADE, NE US**

GHCND:USC00256480
Elev: 2769 ft. Lat: 40.349° N Lon: 101.109° 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	0.43	3.2	1.2	0.2	0.0	0.19	0.23	0.56
2	0.49	4.0	1.5	0.2	0.0	0.16	0.39	0.71
3	1.23	5.5	3.0	0.7	0.2	0.42	0.95	1.70
4	2.10	7.0	4.4	1.6	0.4	1.15	1.67	3.15
5	3.36	10.9	7.2	2.0	0.6	1.50	3.29	4.90
6	3.39	9.1	5.9	2.1	0.8	2.08	3.30	4.40
7	3.41	8.9	6.0	2.0	0.9	1.66	3.07	3.93
8	2.74	7.3	4.3	1.8	0.7	0.98	2.34	3.89
9	1.48	5.3	3.2	0.9	0.3	0.52	1.18	2.45
10	1.59	5.8	3.4	0.8	0.3	0.42	1.44	2.35
11	0.78	4.2	2.1	0.3	-7777	0.35	0.59	1.25
12	0.52	3.2	1.5	0.3	0.1	0.12	0.35	0.74
Summary	21.52	74.4	43.7	12.9	4.3	9.55	18.80	30.03

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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: **PALISADE, NE US**

GHCND:USC00256480
Elev: 2769 ft. Lat: 40.349° N Lon: 101.109° 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	2.6	1.8	0.5	0.2	0.1	11.3	6.7	4.3	1.0	2.0	3.5	7.1
2	4.8	2.7	1.8	0.7	0.2	0.0	8.1	4.5	2.1	0.0	2.0	3.7	7.7
3	4.9	2.6	2.1	0.6	0.2	0.0	3.4	1.5	0.4	0.0	2.0	3.0	8.0
4	2.6	1.1	0.9	0.4	0.1	0.0	0.9	0.5	0.1	0.0	0.0	0.5	3.0
5	0.1	-7777	-7777	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	0.2	0.1	0.1	-7777	-7777	0.0	-7777	-7777	-7777	0.0	0.0	0.0	0.0
10	1.1	0.6	0.4	0.1	0.1	0.0	0.7	0.3	0.1	0.0	0.0	0.0	0.0
11	3.7	1.6	1.2	0.4	0.2	-7777	3.1	1.4	0.8	0.1	1.0	3.0	5.0
12	4.3	2.4	1.8	0.5	0.2	-7777	9.0	4.7	2.3	0.6	1.0	3.7	6.0
Summary	26.2	13.7	10.1	3.2	1.2	0.1	36.5	19.6	10.1	1.7	8.0	17.4	36.8

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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: **ALLIANCE, NE US**

GHCND:USC00250130
 Elev: 3993 ft. Lat: 42.110° N Lon: 102.897° 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	12.3	25.9	5.8	4.5	5.0	0	0	0	0	0	0	902	964	1057	1212	0.0	0.0	6.4	7.8	30.6	4.6
2	42.3	14.7	28.5	5.8	5.1	5.3	-7777	0	0	0	0	0	742	798	882	1022	0.0	0.0	8.9	6.3	26.8	3.8
3	50.5	22.0	36.2	4.5	3.6	3.7	2	1	-7777	0	0	0	583	644	736	891	0.0	0.0	17.3	3.2	27.4	1.3
4	59.9	30.9	45.4	4.2	2.4	2.9	23	14	6	1	-7777	-7777	311	362	444	589	0.0	0.2	23.4	0.6	16.5	0.0
5	69.7	41.8	55.7	3.9	2.2	2.8	118	87	52	16	3	1	95	126	184	303	-7777	0.6	29.7	0.0	3.1	0.0
6	80.2	51.9	66.1	4.0	2.7	3.1	341	287	212	108	41	25	9	16	30	77	0.3	5.0	29.9	0.0	0.2	0.0
7	88.7	58.1	73.4	3.3	2.3	2.6	570	509	417	269	139	97	-7777	1	2	9	2.3	15.0	31.0	0.0	0.0	0.0
8	87.1	56.0	71.6	2.9	2.4	2.4	514	453	362	220	100	64	1	2	4	17	0.7	11.8	31.0	0.0	0.0	0.0
9	76.9	45.1	61.0	4.0	2.6	3.0	229	185	126	53	14	7	49	65	96	173	0.0	3.3	29.2	0.0	2.2	0.0
10	63.2	32.2	47.7	3.9	2.3	2.7	33	21	9	1	-7777	-7777	259	309	390	537	0.0	0.2	26.0	0.5	14.4	0.1
11	49.3	21.0	35.1	6.5	3.8	4.9	1	-7777	-7777	0	0	0	597	656	745	895	0.0	0.0	14.8	3.6	26.5	1.1
12	39.4	12.2	25.8	5.2	4.3	4.5	-7777	0	0	0	0	0	905	967	1060	1215	0.0	0.0	7.1	8.5	30.6	4.6
Summary	62.2	33.2	47.7	4.5	3.2	3.6	1831	1557	1184	668	297	194	4453	4910	5630	6940	3.3	36.1	254.7	30.5	178.3	15.5

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

Station: **ALLIANCE, NE US**

GHCND:USC00250130
Elev: 3993 ft. Lat: 42.110° N Lon: 102.897° 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	0.30	2.2	1.0	0.0	0.0	0.06	0.19	0.40
2	0.36	2.3	1.1	0.2	0.0	0.09	0.21	0.57
3	0.61	4.1	1.8	0.3	-7777	0.26	0.50	0.80
4	1.69	5.3	3.8	1.1	0.2	0.87	1.58	2.41
5	2.85	8.9	6.6	1.5	0.4	1.61	2.57	3.67
6	2.98	7.9	5.8	1.8	0.6	1.72	3.18	4.11
7	1.86	6.7	4.1	1.3	0.5	1.25	1.61	2.41
8	1.54	5.0	3.4	1.0	0.1	0.85	1.44	2.08
9	1.59	5.6	3.7	0.8	0.2	0.79	1.30	2.25
10	0.90	4.4	2.7	0.3	-7777	0.31	0.71	1.24
11	0.48	2.4	1.5	0.3	0.0	0.12	0.45	0.61
12	0.32	2.5	0.9	0.1	0.0	0.06	0.25	0.48
Summary	15.48	57.3	36.4	8.7	2.0	7.99	13.99	21.03

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Station: **ALLIANCE, NE US**

GHCND:USC00250130
Elev: 3993 ft. Lat: 42.110° N Lon: 102.897° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	19	79	216	491	782	1035	978	633	278	71	9
45	1	4	31	122	347	632	880	823	489	167	31	1
50	-7777	-7777	10	59	220	484	725	668	352	84	9	-7777
55	0	-7777	2	23	118	341	570	514	229	33	1	-7777
60	0	0	-7777	6	52	212	417	362	126	9	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	20	34	94	177	313	484	653	619	407	224	84	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	28	107	323	814	1596	2631	3609	4242	4520	4591	4600
45	1	5	36	158	505	1137	2017	2840	3329	3496	3527	3528
50	-7777	-7777	10	69	289	773	1498	2166	2518	2602	2611	-7777
55	0	-7777	2	25	143	484	1054	1568	1797	1830	1831	-7777
60	0	0	-7777	6	58	270	687	1049	1175	1184	-7777	1184
Growing Degree Units for Corn (Monthly)												
50/86	20	54	148	325	638	1122	1775	2394	2801	3025	3109	3131

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: **ARCADIA, NE US**

GHCND:USC00250320

Elev: 2159 ft. Lat: 41.427° N Lon: 99.127° 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	0.47	2.5	1.4	0.2	0.0	0.18	0.37	0.58
2	0.55	3.5	2.0	0.2	0.0	0.10	0.58	0.83
3	1.65	5.3	3.6	1.0	0.4	0.62	1.42	2.33
4	2.55	7.2	5.3	1.8	0.5	1.44	2.34	3.35
5	3.91	9.1	6.9	2.7	1.0	2.40	3.74	5.14
6	4.07	9.5	7.4	2.5	1.0	1.78	2.67	6.48
7	3.17	7.1	5.1	1.9	0.8	1.55	2.62	4.71
8	2.89	6.1	4.8	2.1	0.8	2.14	2.73	4.10
9	2.41	5.7	4.1	1.6	0.6	1.19	2.05	3.22
10	1.88	5.2	4.0	1.2	0.3	1.01	1.67	2.20
11	1.12	3.5	2.5	0.8	0.2	0.26	0.97	1.75
12	0.58	2.5	1.5	0.4	0.1	0.17	0.37	0.75
Summary	25.25	67.2	48.6	16.4	5.7	12.84	21.53	35.44

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **ARCADIA, NE US**

GHCND:USC00250320
 Elev: 2159 ft. Lat: 41.427° N Lon: 99.127° 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	1.8	1.6	0.8	0.4	0.0	@	@	@	@	1.5	4.0	8.5
2	3.8	1.8	1.6	0.6	0.2	0.0	@	@	@	@	0.0	3.0	8.0
3	4.3	1.2	1.1	0.6	0.3	0.1	@	@	@	@	0.1	2.0	5.0
4	2.6	0.6	0.6	0.3	0.2	-7777	@	@	@	@	0.0	0.0	4.0
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	0.5	0.3	0.3	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	2.4	0.9	0.8	0.4	0.2	-7777	@	@	@	@	0.0	1.0	3.0
12	4.7	1.9	1.6	0.8	0.3	0.0	@	@	@	@	0.5	3.0	6.5
Summary	23.6	8.5	7.6	3.6	1.7	0.1	9999	9999	9999	9999	2.1	13.0	35.0

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 -4444: year-round risk of frost-freeze
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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: **GAVINS POINT DAM, NE US**

GHCND:USC00253165

Elev: 1253 ft. Lat: 42.846° N Lon: 97.473° 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	28.8	7.3	18.0	6.5	6.7	6.4	0	0	0	0	0	0	1145	1207	1300	1455	0.0	0.0	1.7	17.7	30.7	9.2
2	33.4	11.3	22.3	7.2	6.8	6.9	-7777	-7777	-7777	-7777	0	0	914	970	1054	1194	0.0	0.0	4.4	12.8	27.5	6.4
3	44.4	21.1	32.8	5.5	3.8	4.3	2	2	1	-7777	-7777	0	692	753	846	1000	0.0	0.0	10.6	5.8	27.8	1.4
4	59.5	33.4	46.4	5.0	3.2	3.8	46	35	22	8	2	1	303	352	428	565	0.0	0.4	22.0	0.3	13.9	0.0
5	69.1	45.1	57.1	3.6	2.9	3.1	142	107	64	22	5	2	77	104	154	267	0.0	0.4	30.1	0.0	1.5	0.0
6	80.0	55.2	67.6	3.1	2.6	2.7	382	325	245	133	57	37	4	7	17	55	0.2	3.7	30.0	0.0	0.0	0.0
7	84.3	60.5	72.4	3.4	2.6	2.9	539	477	386	242	127	93	0	-7777	1	13	0.6	7.9	31.0	0.0	0.0	0.0
8	82.7	58.6	70.6	3.2	2.5	2.7	486	424	336	202	95	65	1	2	6	27	0.4	6.2	31.0	0.0	0.0	0.0
9	74.4	47.2	60.8	3.6	2.3	2.6	220	179	125	59	23	14	46	65	101	185	0.1	2.1	29.2	0.0	1.2	0.0
10	61.0	35.9	48.4	3.7	2.3	2.5	34	21	9	1	-7777	0	238	286	367	515	0.0	0.0	25.6	0.2	9.8	0.0
11	43.7	23.2	33.5	6.4	4.6	5.3	2	1	-7777	0	0	0	648	707	797	946	0.0	0.0	10.2	5.8	24.4	0.8
12	31.4	10.6	21.0	6.9	5.7	6.2	0	0	0	0	0	0	1054	1116	1209	1364	0.0	0.0	2.1	13.8	30.5	6.0
Summary	57.7	34.1	45.9	4.8	3.8	4.1	1853	1571	1188	667	309	212	5122	5569	6280	7586	1.3	20.7	227.9	56.4	167.3	23.8

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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: **GAVINS POINT DAM, NE US**

GHCND:USC00253165

Elev: 1253 ft. Lat: 42.846° N Lon: 97.473° 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	0.50	3.8	1.4	0.3	0.1	0.27	0.44	0.64
2	0.78	4.7	1.7	0.2	0.1	0.46	0.67	1.17
3	1.84	6.2	4.1	1.5	0.3	0.77	1.47	2.66
4	2.88	8.8	5.7	1.6	0.7	1.52	2.61	3.72
5	3.80	9.9	6.6	2.7	0.9	2.19	3.62	4.91
6	4.18	8.6	6.1	2.1	1.3	2.69	3.99	5.22
7	2.99	9.4	5.8	2.0	0.9	1.64	2.65	4.23
8	3.10	7.8	5.0	1.9	1.2	1.24	3.00	4.58
9	2.68	7.0	5.0	1.6	0.4	1.27	2.11	4.14
10	2.32	6.1	3.5	1.3	0.5	0.70	1.44	4.05
11	1.35	5.8	3.0	0.6	0.2	0.44	0.82	1.89
12	0.79	4.3	1.8	0.2	0.0	0.30	0.60	0.87
Summary	27.21	82.4	49.7	16.0	6.6	13.49	23.42	38.08

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Asheville, North Carolina 28801
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Station: **GAVINS POINT DAM, NE US**

GHCND:USC00253165
Elev: 1253 ft. Lat: 42.846° N Lon: 97.473° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	9	49	243	531	828	1004	950	625	293	53	2
45	-7777	3	21	150	383	678	849	795	480	179	25	-7777
50	0	1	7	86	249	528	694	640	342	92	8	-7777
55	0	-7777	2	46	142	382	539	486	220	34	2	0
60	0	-7777	1	22	64	245	386	336	125	9	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	5	13	53	172	316	523	655	617	393	190	39	4

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	12	61	304	835	1663	2667	3617	4242	4535	4588	4590
45	-7777	3	24	174	557	1235	2084	2879	3359	3538	3563	-7777
50	0	1	8	94	343	871	1565	2205	2547	2639	2647	-7777
55	0	-7777	2	48	190	572	1111	1597	1817	1851	1853	1853
60	0	-7777	1	23	87	332	718	1054	1179	1188	-7777	1188
Growing Degree Units for Corn (Monthly)												
50/86	5	18	71	243	559	1082	1737	2354	2747	2937	2976	2980

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: VALENTINE MILLER FIELD, NE US

GHCND:USW00024032
Elev: 2589 ft. Lat: 42.878° N Lon: 100.550° 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	10.7	23.6	6.3	5.7	5.8	-7777	0	0	0	0	0	973	1035	1128	1283	0.0	0.0	5.3	11.1	30.7	6.6
2	40.0	14.4	27.2	6.7	5.8	6.1	-7777	-7777	0	0	0	0	778	834	918	1058	0.0	0.0	7.7	8.3	27.0	4.1
3	49.3	23.1	36.2	5.3	3.7	4.2	4	2	1	-7777	0	0	587	647	739	893	0.0	0.0	15.1	4.2	25.3	1.1
4	60.3	33.0	46.7	4.6	2.9	3.4	37	26	14	4	1	1	287	336	415	554	-7777	0.3	23.1	0.6	13.2	0.0
5	70.9	44.3	57.6	3.9	2.6	2.9	156	120	76	30	9	4	75	101	151	259	0.0	1.1	30.0	0.0	2.5	0.0
6	81.1	54.0	67.5	3.9	3.1	3.3	382	326	247	137	62	43	5	9	21	61	0.5	5.5	29.9	0.0	0.0	0.0
7	88.7	60.4	74.5	3.6	2.5	2.9	606	544	452	304	174	130	-7777	-7777	1	8	2.8	13.8	31.0	0.0	0.0	0.0
8	87.0	58.7	72.8	3.2	2.6	2.8	554	493	403	261	138	99	1	2	5	17	1.6	12.3	31.0	0.0	0.0	0.0
9	77.3	47.4	62.3	3.8	2.8	2.9	259	214	155	81	35	22	38	54	85	160	0.2	4.6	29.5	0.0	1.4	0.0
10	63.0	33.9	48.5	4.0	2.6	2.8	45	31	16	4	1	-7777	248	296	374	517	0.0	0.6	25.7	0.4	11.8	0.0
11	47.7	21.2	34.4	6.8	4.2	5.3	3	2	1	-7777	0	0	620	678	767	916	0.0	0.0	12.8	4.8	25.7	1.4
12	36.6	11.0	23.8	6.8	5.8	6.1	-7777	0	0	0	0	0	967	1029	1122	1277	0.0	0.0	5.5	10.7	30.6	5.3
Summary	61.5	34.3	47.9	4.9	3.7	4.0	2046	1758	1365	821	420	299	4579	5021	5726	7003	5.1	38.2	246.6	40.1	168.2	18.5

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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: VALENTINE MILLER FIELD, NE US

GHCND:USW00024032
Elev: 2589 ft. Lat: 42.878° N Lon: 100.550° 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	0.26	3.9	0.8	-7777	0.0	0.10	0.22	0.43
2	0.48	5.0	1.4	0.1	0.0	0.24	0.40	0.72
3	1.07	7.1	2.8	0.6	0.0	0.68	1.06	1.31
4	2.22	9.1	4.5	1.6	0.2	1.25	2.10	3.13
5	3.13	11.4	6.3	2.1	0.7	1.98	3.03	4.44
6	3.56	11.1	6.4	2.3	0.8	2.23	3.50	4.41
7	3.21	9.5	5.6	1.9	0.8	2.03	3.07	4.14
8	2.18	7.9	4.5	1.2	0.5	1.15	2.38	3.35
9	1.64	7.1	3.7	1.1	0.2	0.67	1.54	2.39
10	1.25	6.7	3.0	0.6	0.1	0.51	0.82	1.95
11	0.65	4.6	1.9	0.2	0.1	0.16	0.48	0.88
12	0.37	4.5	1.0	0.1	-7777	0.11	0.24	0.53
Summary	20.02	87.9	41.9	11.8	3.4	11.11	18.84	27.68

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

Station: VALENTINE MILLER FIELD, NE US

GHCND:USW00024032
 Elev: 2589 ft. Lat: 42.878° N Lon: 100.550° 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	3.4	1.5	0.3	0.1	0.0	10.7	5.1	2.1	1.0	1.1	3.1	5.6
2	5.6	4.3	2.0	0.5	0.2	0.0	9.8	3.7	1.7	0.7	2.4	5.6	7.2
3	6.5	4.6	2.1	0.6	0.3	-7777	5.7	2.3	1.3	0.3	1.5	5.5	8.3
4	4.6	1.9	1.2	0.6	0.4	0.0	1.9	1.0	0.5	0.1	0.0	2.3	6.8
5	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
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	0.7	0.1	0.1	-7777	-7777	-7777	0.1	0.1	0.1	-7777	0.0	0.0	0.0
10	1.5	1.0	0.6	0.2	-7777	0.0	0.7	0.1	0.0	0.0	0.0	0.0	1.8
11	5.4	3.0	1.7	0.6	0.3	0.1	5.2	2.8	1.4	0.7	1.0	3.3	6.4
12	5.1	3.9	1.6	0.3	0.2	-7777	12.1	5.6	2.8	0.7	1.9	4.8	7.4
Summary	33.3	22.3	10.9	3.1	1.5	0.1	46.2	20.7	9.9	3.5	7.9	24.6	43.5

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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

Station: VALENTINE MILLER FIELD, NE US

GHCND:USW00024032
Elev: 2589 ft. Lat: 42.878° N Lon: 100.550° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	20	88	247	546	826	1071	1018	672	299	72	7
45	1	5	40	150	398	677	916	863	525	187	34	1
50	-7777	1	15	80	264	527	761	708	385	101	12	-7777
55	-7777	-7777	4	37	156	382	606	554	259	45	3	-7777
60	0	0	1	14	76	247	452	403	155	16	1	0
Growing Degree Units for Corn (Monthly)												
50/86	19	32	92	182	338	520	687	654	426	221	76	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	29	117	364	910	1736	2807	3825	4497	4796	4868	4875
45	1	6	46	196	594	1271	2187	3050	3575	3762	3796	3797
50	-7777	1	16	96	360	887	1648	2356	2741	2842	2854	-7777
55	-7777	-7777	4	41	197	579	1185	1739	1998	2043	2046	-7777
60	0	0	1	15	91	338	790	1193	1348	1364	1365	1365
Growing Degree Units for Corn (Monthly)												
50/86	19	51	143	325	663	1183	1870	2524	2950	3171	3247	3265

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **SIDNEY MUNICIPAL AIRPORT, NE US**

GHCND:USW00024030
Elev: 4295 ft. Lat: 41.099° N Lon: 102.986° 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	16.3	29.2	5.9	4.0	4.6	-7777	0	0	0	0	0	800	862	955	1110	0.0	0.0	8.3	6.2	29.9	2.3
2	45.0	18.9	32.0	5.6	4.2	4.6	-7777	0	0	0	0	0	645	701	785	925	0.0	0.0	9.5	4.3	26.7	1.6
3	53.1	25.1	39.1	4.0	3.3	3.2	4	2	-7777	0	0	0	496	557	648	803	0.0	0.0	18.9	2.0	25.3	0.3
4	61.9	33.0	47.4	4.6	2.4	3.1	28	17	7	1	-7777	-7777	255	303	383	527	0.0	0.0	24.3	0.5	12.7	0.0
5	71.6	43.6	57.6	3.9	2.1	2.7	144	109	65	21	4	2	64	90	139	250	0.0	1.0	30.4	0.0	1.6	0.0
6	82.2	53.0	67.6	3.8	2.4	2.8	384	328	249	137	58	36	6	10	21	59	0.6	7.0	30.0	0.0	0.0	0.0
7	90.5	59.9	75.2	2.6	1.9	2.1	626	564	471	319	176	127	-7777	-7777	1	3	2.8	17.0	31.0	0.0	0.0	0.0
8	88.2	58.4	73.3	3.5	2.1	2.6	567	505	413	264	134	91	-7777	-7777	1	8	1.0	13.7	31.0	0.0	0.0	0.0
9	78.9	48.1	63.5	3.8	2.6	2.9	286	238	173	84	29	16	31	43	68	129	0.1	5.5	29.4	0.0	1.1	0.0
10	65.0	35.4	50.2	4.1	2.3	2.7	54	37	19	4	-7777	-7777	203	248	323	463	0.0	0.5	26.6	0.3	10.1	0.0
11	51.2	24.2	37.7	6.1	3.4	4.5	3	1	-7777	-7777	0	0	522	580	669	819	0.0	0.0	15.8	2.9	24.4	0.5
12	41.3	16.1	28.7	5.6	4.0	4.6	-7777	-7777	0	0	0	0	815	877	970	1125	0.0	0.0	8.6	6.9	30.1	2.4
Summary	64.3	36.0	50.1	4.5	2.9	3.4	2096	1801	1397	830	401	272	3837	4271	4963	6221	4.5	44.7	263.8	23.1	161.9	7.1

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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: **SIDNEY MUNICIPAL AIRPORT, NE US**

GHCND:USW00024030
Elev: 4295 ft. Lat: 41.099° N Lon: 102.986° 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	0.20	3.3	0.6	0.0	0.0	0.06	0.17	0.30
2	0.32	3.9	0.9	0.0	0.0	0.13	0.25	0.50
3	1.10	6.7	2.7	0.6	0.2	0.36	0.84	1.35
4	2.05	8.8	4.9	1.5	0.6	0.94	2.01	3.04
5	3.09	11.8	5.8	1.8	0.5	2.04	2.65	4.40
6	3.18	12.8	7.6	2.7	1.0	1.88	2.91	3.93
7	2.96	10.7	5.7	2.0	0.7	1.77	2.86	3.89
8	2.26	9.7	4.9	1.6	0.1	1.39	1.82	2.93
9	1.25	8.4	3.0	0.5	0.0	0.63	1.17	1.96
10	1.02	7.1	2.8	0.3	0.1	0.50	0.87	1.21
11	0.57	4.8	1.3	0.1	0.1	0.15	0.41	0.97
12	0.54	3.8	1.1	0.1	0.0	0.06	0.27	0.77
Summary	18.54	91.8	41.3	11.2	3.3	9.91	16.23	25.25

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Station: **SIDNEY MUNICIPAL AIRPORT, NE US**

GHCND:USW00024030
Elev: 4295 ft. Lat: 41.099° N Lon: 102.986° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	28	104	259	546	828	1091	1032	706	342	99	20
45	4	7	47	155	396	678	936	877	560	219	48	5
50	-7777	1	15	76	258	529	781	722	418	121	17	1
55	-7777	-7777	4	28	144	384	626	567	286	54	3	-7777
60	0	0	-7777	7	65	249	471	413	173	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	32	42	112	201	340	515	691	657	441	248	98	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	19	47	151	410	956	1784	2875	3907	4613	4955	5054	5074
45	4	11	58	213	609	1287	2223	3100	3660	3879	3927	3932
50	-7777	1	16	92	350	879	1660	2382	2800	2921	2938	2939
55	-7777	-7777	4	32	176	560	1186	1753	2039	2093	2096	-7777
60	0	0	-7777	7	72	321	792	1205	1378	1397	-7777	1397
Growing Degree Units for Corn (Monthly)												
50/86	32	74	186	387	727	1242	1933	2590	3031	3279	3377	3408

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: **ELGIN, NE US**

GHCND:USC00252595

Elev: 1936 ft. Lat: 41.987° N Lon: 98.075° 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	32.5	11.1	21.8	7.2	5.8	6.4	0	0	0	0	0	0	1029	1091	1184	1339	0.0	0.0	3.5	14.8	30.5	6.4
2	36.6	14.6	25.6	7.4	5.4	6.2	-7777	-7777	-7777	0	0	0	823	879	963	1103	0.0	0.0	5.8	10.7	26.6	3.5
3	47.4	23.2	35.3	5.8	3.6	4.3	3	2	-7777	-7777	-7777	0	614	674	766	921	0.0	0.0	14.2	4.7	25.4	0.9
4	60.0	34.5	47.2	4.9	3.2	3.7	40	28	15	5	1	-7777	272	321	398	537	0.0	-7777	23.5	0.6	11.9	0.0
5	70.7	47.5	59.1	3.7	3.0	3.1	181	142	93	38	11	5	54	76	121	221	0.0	0.4	30.6	0.0	0.7	0.0
6	80.0	57.6	68.8	3.4	2.8	3.0	416	359	277	154	64	40	3	5	13	40	0.0	2.4	30.0	0.0	0.0	0.0
7	84.4	62.5	73.5	3.2	2.4	2.6	572	510	418	269	139	98	-7777	-7777	1	7	0.4	6.6	31.0	0.0	0.0	0.0
8	82.3	59.7	71.0	3.2	2.6	2.8	496	435	345	203	90	59	1	1	4	17	0.1	3.8	31.0	0.0	0.0	0.0
9	75.0	49.6	62.3	3.4	2.5	2.7	247	201	140	65	21	11	28	42	71	146	0.0	1.0	29.8	0.0	0.4	0.0
10	62.9	37.0	50.0	3.6	2.5	2.6	57	40	21	5	1	-7777	214	259	333	472	0.0	0.1	26.5	0.5	8.9	0.0
11	46.3	24.6	35.5	6.7	4.5	5.4	4	2	1	-7777	0	0	591	649	737	886	0.0	0.0	11.9	5.1	23.3	0.3
12	33.7	13.6	23.7	6.5	5.7	5.9	-7777	0	0	0	0	0	972	1033	1126	1282	0.0	0.0	3.2	13.6	30.2	4.8
Summary	59.3	36.3	47.8	4.9	3.7	4.1	2016	1719	1310	739	327	213	4601	5030	5717	6971	0.5	14.3	241.0	50.0	157.9	15.9

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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: **ELGIN, NE US**

GHCND:USC00252595

Elev: 1936 ft. Lat: 41.987° N Lon: 98.075° 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	0.51	4.8	1.7	0.2	0.0	0.22	0.40	0.73
2	0.69	5.3	2.0	0.3	0.0	0.30	0.63	1.05
3	1.72	7.2	4.2	1.1	0.2	0.73	1.28	2.52
4	2.73	9.2	5.5	1.5	0.8	1.57	2.49	3.48
5	3.73	10.8	6.7	2.5	1.0	2.69	3.37	5.25
6	4.16	10.4	7.1	2.8	1.2	2.35	3.87	4.86
7	3.33	8.5	5.5	2.2	0.9	1.73	3.10	4.89
8	3.96	8.6	5.7	2.2	1.2	2.07	3.45	5.34
9	2.49	7.3	4.5	1.9	0.6	1.26	2.41	3.51
10	2.30	6.9	4.3	1.5	0.6	0.81	1.61	3.57
11	1.26	5.1	3.3	0.8	0.1	0.39	1.00	2.02
12	0.68	5.4	2.2	0.2	-7777	0.33	0.50	0.98
Summary	27.56	89.5	52.7	17.2	6.6	14.45	24.11	38.20

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

Station: **ELGIN, NE US**

GHCND:USC00252595
 Elev: 1936 ft. Lat: 41.987° N Lon: 98.075° 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	5.9	2.9	1.7	0.7	0.2	0.0	14.5	9.5	5.5	1.3	2.6	5.9	9.0
2	4.2	3.1	1.9	0.5	0.1	0.0	12.5	8.2	4.8	0.9	2.0	3.0	5.6
3	4.7	2.5	1.7	0.5	0.2	-7777	6.8	4.1	1.6	0.5	1.6	3.0	4.9
4	2.8	0.9	0.9	0.4	0.2	0.0	1.3	0.7	0.3	0.0	0.0	2.0	4.5
5	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
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.4	0.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	4.0	1.9	1.6	0.5	0.2	0.1	5.0	2.6	1.1	0.2	0.5	2.8	4.0
12	6.0	3.1	2.2	0.6	0.2	0.0	13.8	9.2	4.7	2.1	2.5	4.5	7.6
Summary	28.2	14.8	10.3	3.2	1.1	0.1	54.4	34.3	18.0	5.0	9.2	21.2	35.6

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1981-2010**

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

Station: **ELGIN, NE US**

GHCND:USC00252595
Elev: 1936 ft. Lat: 41.987° N Lon: 98.075° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	18	80	259	592	864	1037	960	669	337	80	7
45	1	6	37	157	441	714	882	806	521	218	41	2
50	-7777	1	13	85	299	564	727	651	378	122	16	-7777
55	0	-7777	3	40	181	416	572	496	247	57	4	-7777
60	0	-7777	-7777	15	93	277	418	345	140	21	1	0
Growing Degree Units for Corn (Monthly)												
50/86	11	20	72	176	352	558	697	635	418	221	62	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	24	104	363	955	1819	2856	3816	4485	4822	4902	4909
45	1	7	44	201	642	1356	2238	3044	3565	3783	3824	3826
50	-7777	1	14	99	398	962	1689	2340	2718	2840	2856	-7777
55	0	-7777	3	43	224	640	1212	1708	1955	2012	2016	-7777
60	0	-7777	-7777	15	108	385	803	1148	1288	1309	1310	1310
Growing Degree Units for Corn (Monthly)												
50/86	11	31	103	279	631	1189	1886	2521	2939	3160	3222	3231

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **SAINT PAUL, NE US**

GHCND:USC00257515
Elev: 1795 ft. Lat: 41.208° N Lon: 98.461° 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	14.3	25.4	6.1	4.8	5.3	0	-7777	0	0	0	0	918	979	1072	1228	0.0	0.0	5.1	11.1	30.3	3.7
2	41.1	18.2	29.6	6.6	5.5	5.8	-7777	-7777	-7777	0	0	0	710	766	850	990	0.0	0.0	7.9	7.6	25.7	2.6
3	52.6	27.6	40.1	5.0	3.6	4.0	11	7	3	1	-7777	-7777	473	530	620	772	0.0	0.1	17.8	2.1	21.4	0.5
4	64.7	38.4	51.6	4.4	2.9	3.4	77	57	35	13	3	2	180	221	289	417	0.0	0.5	26.4	-7777	6.9	0.0
5	74.2	49.9	62.1	3.7	2.7	2.9	247	200	137	60	18	10	29	44	74	152	-7777	1.3	30.9	0.0	0.4	0.0
6	83.8	59.8	71.8	3.4	2.6	2.8	505	446	359	225	115	81	1	2	5	21	0.3	6.9	30.0	0.0	0.0	0.0
7	88.5	64.7	76.6	3.1	2.1	2.4	669	607	515	362	219	168	0	-7777	-7777	3	1.8	13.4	31.0	0.0	0.0	0.0
8	86.7	62.8	74.8	3.4	2.2	2.6	612	550	458	309	172	126	-7777	-7777	1	7	0.8	10.4	31.0	0.0	0.0	0.0
9	79.3	52.5	65.9	4.0	2.7	2.9	344	293	221	123	55	37	18	26	44	96	-7777	4.8	29.8	0.0	0.5	0.0
10	66.0	39.7	52.9	3.6	2.9	2.7	84	61	35	11	3	2	151	190	257	388	0.0	0.2	28.2	0.1	6.3	0.0
11	49.3	27.2	38.2	5.6	3.7	4.4	5	3	1	-7777	0	0	508	565	653	803	0.0	0.0	14.3	3.2	21.0	0.2
12	37.1	16.6	26.9	6.4	5.6	5.9	0	0	0	0	0	0	872	934	1027	1182	0.0	0.0	4.7	10.0	30.0	2.8
Summary	63.3	39.3	51.3	4.6	3.4	3.8	2554	2224	1764	1104	585	426	3860	4257	4892	6059	2.9	37.6	257.1	34.1	142.5	9.8

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-4444: year-round risk of frost-freeze

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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: **SAINT PAUL, NE US**

GHCND:USC00257515

Elev: 1795 ft. Lat: 41.208° N Lon: 98.461° 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	0.47	2.8	1.3	0.2	0.0	0.17	0.39	0.74
2	0.58	3.8	2.1	0.2	0.0	0.24	0.57	0.85
3	1.89	5.5	4.0	1.3	0.6	0.67	1.79	2.97
4	2.48	7.2	4.6	1.7	0.6	1.31	2.09	3.20
5	4.32	9.8	7.3	3.0	1.4	2.88	4.14	5.07
6	4.21	8.5	6.4	2.7	1.2	2.55	3.93	6.08
7	3.19	7.6	5.4	2.0	1.1	1.46	2.50	4.31
8	2.88	7.1	5.0	1.9	0.8	1.69	2.39	3.65
9	2.43	5.4	3.9	1.6	0.6	0.96	2.19	3.38
10	2.03	5.6	4.0	1.2	0.5	0.72	1.55	2.52
11	1.18	3.7	2.6	0.9	0.2	0.36	1.00	1.72
12	0.55	3.1	1.5	0.3	0.0	0.14	0.32	0.84
Summary	26.21	70.1	48.1	17.0	7.0	13.15	22.86	35.33

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Station: **SAINT PAUL, NE US**

GHCND:USC00257515
 Elev: 1795 ft. Lat: 41.208° N Lon: 98.461° 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	4.0	2.0	1.6	0.6	0.3	0.1	9.2	4.4	0.9	0.1	1.0	2.8	6.0
2	4.5	2.3	1.9	0.7	0.2	0.0	8.8	5.2	2.5	0.6	1.2	4.7	7.0
3	4.0	1.3	1.2	0.5	0.3	-7777	3.4	1.7	1.0	0.2	0.0	2.5	5.5
4	1.2	0.4	0.4	0.2	-7777	0.0	0.5	0.2	0.1	0.0	0.0	0.0	1.0
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	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.4	0.2	0.1	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
11	2.7	1.2	1.1	0.3	0.2	-7777	1.8	1.0	0.5	0.0	0.0	1.0	3.0
12	3.3	2.1	1.6	0.5	0.1	0.0	8.2	2.8	0.1	0.0	1.0	2.5	4.3
Summary	20.2	9.5	7.9	2.9	1.1	0.1	32.1	15.4	5.1	0.9	3.2	13.5	26.8

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

Station: SAINT PAUL, NE US

GHCND:USC00257515
Elev: 1795 ft. Lat: 41.208° N Lon: 98.461° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	28	137	364	684	954	1134	1077	777	411	103	9
45	1	8	72	242	530	804	979	922	629	279	51	1
50	-7777	2	32	144	381	654	824	767	483	167	20	-7777
55	0	-7777	11	77	247	505	669	612	344	84	5	0
60	0	-7777	3	35	137	359	515	458	221	35	1	0
Growing Degree Units for Corn (Monthly)												
50/86	17	33	113	237	418	625	757	716	495	266	77	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	37	174	538	1222	2176	3310	4387	5164	5575	5678	5687
45	1	9	81	323	853	1657	2636	3558	4187	4466	4517	4518
50	-7777	2	34	178	559	1213	2037	2804	3287	3454	3474	-7777
55	0	-7777	11	88	335	840	1509	2121	2465	2549	2554	2554
60	0	-7777	3	38	175	534	1049	1507	1728	1763	1764	1764
Growing Degree Units for Corn (Monthly)												
50/86	17	50	163	400	818	1443	2200	2916	3411	3677	3754	3767

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: **BARNESTON, NE US**

GHCND:USC00250520

Elev: 1201 ft. Lat: 40.049° N Lon: 96.575° 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	0.63	3.2	2.0	0.2	0.0	0.22	0.53	0.88
2	0.88	3.6	2.4	0.2	0.2	0.47	0.70	1.00
3	2.50	5.9	4.6	2.0	0.6	1.13	2.02	3.94
4	3.07	7.2	5.8	2.0	0.7	2.02	2.82	3.91
5	4.46	9.5	7.8	3.2	1.1	2.18	3.60	5.86
6	4.88	7.9	6.6	3.5	1.5	3.14	4.69	6.27
7	4.19	7.0	6.2	2.6	1.4	2.39	3.04	4.95
8	4.24	6.9	6.0	3.0	1.3	2.50	4.30	5.44
9	3.63	6.0	5.4	2.3	1.3	2.20	3.57	4.49
10	2.24	5.3	4.5	1.5	0.4	1.31	2.05	3.26
11	1.55	4.4	3.3	1.2	0.5	0.60	1.21	2.65
12	0.91	3.5	2.3	0.4	0.1	0.40	0.72	1.23
Summary	33.18	70.4	56.9	22.1	9.1	18.56	29.25	43.88

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www.ncdc.noaa.gov

Station: **BARNESTON, NE US**

GHCND:USC00250520

Elev: 1201 ft. Lat: 40.049° N Lon: 96.575° 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	4.5	2.1	1.8	0.7	0.4	0.0	5.6	3.8	1.8	0.1	1.0	3.7	6.7
2	3.9	1.5	1.3	0.4	0.2	0.0	6.4	3.5	2.1	1.0	0.5	2.0	7.0
3	3.2	0.9	0.8	0.3	0.2	-7777	0.4	0.0	0.0	0.0	0.0	0.8	3.0
4	0.9	0.2	0.2	0.1	0.1	-7777	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	-7777	-7777	-7777	-7777	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
11	0.8	0.6	0.4	0.1	-7777	0.0	0.2	-7777	-7777	0.0	0.0	0.0	0.5
12	4.1	2.0	1.5	0.6	0.1	0.0	4.8	2.7	1.5	0.2	0.0	3.0	5.7
Summary	17.6	7.3	6.0	2.2	1.0	0.0	17.5	10.0	5.4	1.3	1.5	9.5	22.9

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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, NE US**

GHCND:USC00256375

Elev: 1640 ft. Lat: 41.184° N Lon: 97.550° 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	12.3	22.9	6.9	5.4	6.0	0	0	0	0	0	0	995	1057	1150	1305	0.0	0.0	3.6	13.7	30.7	5.5
2	38.1	15.9	27.0	7.1	5.5	6.1	-7777	-7777	0	0	0	0	784	840	924	1064	0.0	0.0	6.1	9.7	26.3	3.5
3	49.6	25.4	37.5	5.3	3.6	4.0	6	3	1	-7777	-7777	0	548	608	699	853	0.0	0.1	15.7	3.3	24.1	0.6
4	61.8	36.5	49.2	4.8	3.1	3.7	56	41	25	9	2	1	232	277	350	484	0.0	0.3	24.6	0.3	10.1	0.0
5	72.1	49.7	60.9	3.7	3.1	3.2	221	177	119	51	14	7	38	57	91	178	0.0	0.6	30.8	0.0	0.4	0.0
6	81.6	59.5	70.5	3.6	2.3	2.8	467	409	322	191	88	59	1	2	6	24	0.1	3.7	30.0	0.0	0.0	0.0
7	85.7	64.2	75.0	3.3	2.0	2.4	618	556	463	312	172	125	0	0	-7777	3	0.4	8.5	31.0	0.0	0.0	0.0
8	83.5	61.4	72.5	3.6	2.7	3.0	541	479	388	242	120	82	-7777	1	2	11	0.2	5.8	31.0	0.0	0.0	0.0
9	76.4	51.4	63.9	3.6	2.3	2.7	291	242	175	89	34	20	24	35	58	122	0.0	2.0	29.8	0.0	0.5	0.0
10	63.6	38.7	51.1	3.6	2.6	2.6	65	45	25	7	2	1	185	227	299	437	0.0	0.0	27.3	0.3	7.6	0.0
11	47.9	25.6	36.8	6.2	4.3	5.0	5	3	1	-7777	0	0	553	610	698	847	0.0	0.0	13.2	3.7	22.7	0.4
12	34.4	14.5	24.5	6.4	5.8	6.0	0	0	0	0	0	0	947	1009	1102	1257	0.0	0.0	3.5	12.6	30.2	3.8
Summary	60.7	37.9	49.3	4.8	3.6	4.0	2270	1955	1519	901	432	295	4307	4723	5379	6585	0.7	21.0	246.6	43.6	152.6	13.8

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

Station: **OSCEOLA, NE US**

GHCND:USC00256375

Elev: 1640 ft. Lat: 41.184° N Lon: 97.550° 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	4.1	1.8	0.3	0.0	0.32	0.52	0.87
2	0.71	4.4	2.2	0.3	0.0	0.39	0.73	0.89
3	2.09	7.0	4.2	1.5	0.4	0.96	1.85	3.04
4	2.81	8.6	5.3	1.9	0.7	1.85	2.61	3.74
5	4.52	11.6	8.1	3.3	1.1	2.65	3.90	6.14
6	4.37	10.4	6.6	2.8	1.2	2.49	3.89	6.09
7	3.23	8.5	5.3	2.2	0.8	1.59	2.98	4.53
8	3.33	8.1	5.2	2.0	1.1	1.49	3.03	4.83
9	2.62	7.3	4.4	1.6	0.7	1.19	2.52	3.64
10	2.11	6.4	4.2	1.4	0.5	0.90	1.47	3.26
11	1.56	5.1	2.9	1.1	0.4	0.62	1.22	2.29
12	0.94	4.8	2.3	0.6	0.1	0.29	0.75	1.28
Summary	28.89	86.3	52.5	19.0	7.0	14.74	25.47	40.60

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Station: OSCEOLA, NE US

GHCND:USC00256375
 Elev: 1640 ft. Lat: 41.184° N Lon: 97.550° 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	3.3	2.0	0.7	0.3	0.0	14.6	9.0	4.9	1.9	3.0	4.6	9.0
2	6.4	3.4	2.2	0.7	0.4	0.0	13.0	8.4	5.0	1.8	2.9	6.9	9.7
3	5.2	1.9	1.2	0.7	0.5	-7777	4.2	2.7	1.5	0.6	0.5	3.5	8.7
4	1.6	0.5	0.4	0.2	0.2	0.0	0.6	0.4	0.1	0.0	0.0	0.0	1.5
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	0.1	-7777	-7777	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
11	3.5	1.9	1.2	0.4	0.1	0.1	3.6	1.5	0.5	0.1	0.6	1.8	5.8
12	5.6	3.3	2.0	0.7	0.2	-7777	10.6	5.5	3.2	1.3	1.5	3.8	7.7
Summary	29.1	14.6	9.2	3.5	1.8	0.1	46.9	27.6	15.3	5.7	8.5	20.6	42.4

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Station: OSCEOLA, NE US

GHCND:USC00256375
Elev: 1640 ft. Lat: 41.184° N Lon: 97.550° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	19	99	305	648	916	1083	1006	717	366	88	5
45	1	5	48	196	495	766	928	851	569	241	45	1
50	-7777	1	19	113	349	616	773	696	425	137	17	-7777
55	0	-7777	6	56	221	467	618	541	291	65	5	0
60	0	0	1	25	119	322	463	388	175	25	1	0
Growing Degree Units for Corn (Monthly)												
50/86	11	23	86	200	389	601	734	671	452	231	66	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	25	124	429	1077	1993	3076	4082	4799	5165	5253	5258
45	1	6	54	250	745	1511	2439	3290	3859	4100	4145	4146
50	-7777	1	20	133	482	1098	1871	2567	2992	3129	3146	-7777
55	0	-7777	6	62	283	750	1368	1909	2200	2265	2270	2270
60	0	0	1	26	145	467	930	1318	1493	1518	1519	1519
Growing Degree Units for Corn (Monthly)												
50/86	11	34	120	320	709	1310	2044	2715	3167	3398	3464	3472

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: FRIEND 3 E, NE US

GHCND:USC00253065
 Elev: 1535 ft. Lat: 40.656° N Lon: 97.221° 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	12.7	23.8				0	0	0	0	0	0	967	1029	1122	1277	0.0	0.0	3.3	11.7	30.7	5.0
2	40.3	16.8	28.6				-7777	0	0	0	0	0	741	796	880	1020	0.0	0.0	6.3	7.0	27.0	0.3
3	50.4	26.7	38.6				4	2	1	-7777	0	0	514	574	666	820	0.0	0.0	16.3	2.3	19.7	0.0
4	63.2	37.6	50.4				44	29	13	3	-7777	-7777	183	227	301	441	0.0	0.0	26.3	0.0	5.7	0.0
5	73.3	49.8	61.6				229	182	123	56	18	9	26	41	75	163	0.0	0.8	31.0	0.0	0.0	0.0
6	82.6	60.0	71.3				488	429	340	197	75	40	-7777	-7777	1	8	0.0	2.0	30.0	0.0	0.0	0.0
7	85.9	64.4	75.2				624	562	469	315	168	116	0	0	0	1	0.0	6.5	31.0	0.0	0.0	0.0
8	84.6	61.5	73.1				559	497	405	257	126	88	-7777	-7777	1	7	0.0	6.3	31.0	0.0	0.0	0.0
9	77.8	52.1	65.0				306	253	181	85	29	16	8	15	33	87	0.0	1.5	30.0	0.0	0.0	0.0
10	65.3	39.5	52.4				78	55	30	8	1	-7777	158	198	265	398	0.0	0.0	28.0	0.0	4.8	0.0
11	50.1	26.8	38.4				2	1	-7777	0	0	0	499	558	647	797	0.0	0.0	14.5	0.8	22.3	0.0
12	36.3	15.6	26.0				0	0	0	0	0	0	900	962	1055	1210	0.0	0.0	3.3	11.8	30.5	1.0
Summary	62.1	38.6	50.4	9999	9999	9999	2334	2010	1562	921	417	269	3996	4400	5046	6229	0.0	17.1	251.0	33.6	140.7	6.3

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

Station: **FRIEND 3 E, NE US**

GHCND:USC00253065

Elev: 1535 ft. Lat: 40.656° N Lon: 97.221° 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	0.66	5.2	2.1	0.2	0.0	0.31	0.61	0.94
2	0.69	5.5	2.0	0.2	-7777	0.30	0.59	0.91
3	2.06	7.5	4.3	1.2	0.4	1.10	1.76	2.87
4	2.61	9.7	5.3	1.4	0.5	1.49	2.28	3.46
5	4.85	12.7	7.7	3.2	1.2	2.09	4.87	6.76
6	4.32	10.1	6.2	3.0	1.3	3.04	4.13	6.03
7	3.44	9.3	5.9	2.3	0.7	1.77	2.81	4.65
8	3.18	9.4	6.0	2.4	0.7	1.85	3.03	3.82
9	3.15	7.6	4.8	1.8	0.7	2.08	2.67	3.97
10	2.05	7.0	4.2	1.2	0.4	0.78	1.66	3.03
11	1.35	5.7	2.6	0.9	0.3	0.60	0.93	2.41
12	0.91	5.5	2.1	0.4	0.1	0.30	0.69	1.26
Summary	29.27	95.2	53.2	18.2	6.3	15.71	26.03	40.11

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Station: **FRIEND 3 E, NE US**

GHCND:USC00253065

Elev: 1535 ft. Lat: 40.656° N Lon: 97.221° 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	5.1	2.7	1.8	0.8	0.3	0.0	10.5	5.7	3.2	1.4	1.5	4.4	7.7
2	4.8	2.9	1.7	0.7	0.2	0.0	8.5	4.8	2.1	1.0	0.4	5.2	7.0
3	2.7	1.4	1.0	0.4	0.2	0.0	3.0	1.6	1.1	0.3	0.0	1.0	3.0
4	0.6	0.3	0.3	0.1	0.0	0.0	0.2	-7777	-7777	0.0	0.0	0.0	0.1
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	-7777	-7777	0.1	-7777	0.0	0.0	0.0	0.0	0.0
11	1.6	1.0	0.6	0.1	0.1	0.0	0.9	0.1	-7777	0.0	0.0	0.3	2.1
12	4.6	2.8	1.3	0.7	0.2	0.0	6.3	4.8	2.6	1.2	0.7	3.5	5.7
Summary	19.9	11.2	6.8	2.9	1.0	0.0	29.5	17.0	9.0	3.9	2.6	14.4	25.6

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Station: **FRIEND 3 E, NE US**

GHCND:USC00253065
Elev: 1535 ft. Lat: 40.656° N Lon: 97.221° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	2	15	98	323	668	938	1089	1024	748	394	85	8
45	-7777	5	44	198	513	788	934	868	598	263	41	2
50	-7777	1	15	101	364	638	778	713	449	153	13	-7777
55	0	-7777	4	44	229	488	624	559	306	78	2	0
60	0	0	1	13	123	340	469	405	181	30	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	5	21	79	207	399	628	751	687	471	250	67	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	2	17	115	438	1106	2044	3133	4157	4905	5299	5384	5392
45	-7777	5	49	247	760	1548	2482	3350	3948	4211	4252	4254
50	-7777	1	16	117	481	1119	1897	2610	3059	3212	3225	-7777
55	0	-7777	4	48	277	765	1389	1948	2254	2332	2334	2334
60	0	0	1	14	137	477	946	1351	1532	1562	-7777	1562
Growing Degree Units for Corn (Monthly)												
50/86	5	26	105	312	711	1339	2090	2777	3248	3498	3565	3575

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: RED WILLOW DAM, NE US

GHCND:USC00257110
Elev: 2562 ft. Lat: 40.358° N Lon: 100.661° 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	12.5	26.2	6.0	4.4	5.0	-7777	0	0	0	0	0	894	956	1049	1204	0.0	0.0	7.9	9.2	30.9	3.6
2	44.1	15.9	30.0	6.5	4.5	5.1	-7777	-7777	0	0	0	0	700	756	840	980	0.0	0.0	10.2	6.0	27.3	2.3
3	53.8	24.0	38.9	4.4	3.1	3.4	5	2	1	-7777	-7777	0	504	563	655	809	0.0	0.0	19.1	2.1	25.9	0.6
4	64.0	33.2	48.6	4.4	2.7	3.1	43	29	15	4	-7777	-7777	235	281	357	495	0.0	0.4	25.4	0.2	13.6	0.0
5	73.1	45.1	59.1	3.8	2.6	2.8	179	139	90	33	7	3	52	74	118	215	-7777	1.3	30.6	0.0	1.7	0.0
6	83.1	55.4	69.3	3.8	2.7	3.0	430	373	289	166	75	49	3	5	12	38	0.6	7.0	30.0	0.0	0.0	0.0
7	89.3	60.9	75.1	3.2	2.0	2.2	623	561	468	317	178	130	0	-7777	-7777	4	2.4	15.0	31.0	0.0	0.0	0.0
8	87.8	59.2	73.5	3.8	2.4	2.8	574	512	420	273	143	101	-7777	1	2	10	1.5	13.0	31.0	0.0	0.0	0.0
9	78.9	47.6	63.2	3.9	2.9	3.0	274	227	163	81	30	17	26	39	66	133	0.2	4.9	29.7	0.0	1.0	0.0
10	66.8	34.8	50.8	3.9	2.7	2.6	56	38	19	4	1	-7777	186	230	304	444	0.0	0.5	27.9	0.2	11.2	0.0
11	52.1	23.3	37.7	5.2	3.2	3.7	3	1	-7777	-7777	0	0	522	580	669	819	0.0	0.0	17.1	2.2	25.5	0.3
12	40.5	13.8	27.2	6.3	5.1	5.5	0	0	0	0	0	0	863	925	1018	1173	0.0	0.0	7.8	7.6	30.8	3.1
Summary	64.4	35.5	50.0	4.6	3.2	3.5	2187	1882	1465	878	434	300	3985	4410	5090	6324	4.7	42.1	267.7	27.5	167.9	9.9

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www.ncdc.noaa.gov

Station: **RED WILLOW DAM, NE US**

GHCND:USC00257110

Elev: 2562 ft. Lat: 40.358° N Lon: 100.661° 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	0.29	2.4	1.0	0.1	0.0	0.05	0.18	0.44
2	0.43	3.4	1.6	0.1	0.0	0.15	0.32	0.58
3	1.22	4.8	2.7	0.7	0.2	0.27	0.93	1.85
4	2.04	6.4	3.8	1.3	0.5	1.12	1.61	2.79
5	3.04	9.3	5.6	1.7	0.6	1.54	2.64	4.39
6	3.49	9.1	5.8	2.2	0.9	2.28	3.44	4.39
7	2.87	7.8	5.1	1.9	1.0	1.29	2.56	4.22
8	2.69	6.7	4.5	1.6	0.7	1.26	2.31	3.80
9	1.51	5.2	2.9	1.1	0.2	0.69	1.39	1.92
10	1.65	5.1	2.9	1.0	0.4	0.60	1.31	2.75
11	0.72	3.4	1.5	0.4	0.0	0.27	0.57	1.08
12	0.52	2.8	0.8	0.2	0.1	0.08	0.29	0.49
Summary	20.47	66.4	38.2	12.3	4.6	9.60	17.55	28.70

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Station: **RED WILLOW DAM, NE US**

GHCND:USC00257110
Elev: 2562 ft. Lat: 40.358° N Lon: 100.661° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	24	109	286	592	877	1088	1038	698	353	91	8
45	2	7	50	176	442	727	933	883	551	229	42	1
50	-7777	1	18	94	299	578	778	728	407	127	13	-7777
55	-7777	-7777	5	43	179	430	623	574	274	56	3	0
60	0	0	1	15	90	289	468	420	163	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	29	46	124	225	371	556	700	666	446	271	100	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	35	144	430	1022	1899	2987	4025	4723	5076	5167	5175
45	2	9	59	235	677	1404	2337	3220	3771	4000	4042	4043
50	-7777	1	19	113	412	990	1768	2496	2903	3030	3043	-7777
55	-7777	-7777	5	48	227	657	1280	1854	2128	2184	2187	2187
60	0	0	1	16	106	395	863	1283	1446	1465	-7777	1465
Growing Degree Units for Corn (Monthly)												
50/86	29	75	199	424	795	1351	2051	2717	3163	3434	3534	3559

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: **BARTLETT 1 S, NE US**

GHCND:USC00250525

Elev: 2218 ft. Lat: 41.870° N Lon: 98.549° 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	7.8	20.9	7.0	5.8	6.3	0	0	0	0	0	0	1057	1119	1212	1367	0.0	0.0	4.1	13.5	31.0	8.5
2	37.7	11.3	24.5	7.0	6.0	6.3	-7777	-7777	0	0	0	0	854	910	994	1134	0.0	0.0	6.3	9.5	27.5	4.9
3	48.9	20.0	34.4	5.6	3.8	4.2	3	2	1	-7777	0	0	640	701	793	947	0.0	0.0	15.7	4.1	28.2	1.3
4	61.3	29.9	45.6	4.7	3.6	3.7	33	24	13	3	-7777	-7777	315	365	445	585	0.0	0.2	24.7	0.4	18.4	0.0
5	71.9	40.8	56.3	3.9	4.4	3.7	129	97	59	21	4	2	87	117	172	289	0.0	1.2	30.3	0.0	5.5	0.0
6	81.9	51.2	66.6	3.8	4.0	3.5	355	300	225	119	49	31	8	14	28	73	0.3	4.5	30.0	0.0	0.6	0.0
7	87.1	57.4	72.3	3.5	2.2	2.7	535	474	383	240	121	83	1	1	4	16	0.9	11.3	31.0	0.0	0.2	0.0
8	84.9	55.5	70.2	3.4	3.0	3.0	473	413	324	189	87	57	2	4	8	28	0.8	7.9	31.0	0.0	0.3	0.0
9	76.3	45.3	60.8	3.9	3.1	3.0	220	178	123	55	17	9	46	64	99	181	0.1	2.3	29.7	0.0	2.8	0.0
10	63.7	32.9	48.3	3.7	2.9	2.8	41	28	14	3	-7777	-7777	249	298	377	520	0.0	0.3	27.3	0.2	14.2	0.0
11	47.7	20.9	34.3	6.6	4.4	5.2	1	1	-7777	0	0	0	622	681	771	921	0.0	0.0	13.3	4.5	26.1	1.2
12	35.2	9.5	22.3	6.8	5.4	5.9	0	0	0	0	0	0	1012	1074	1167	1322	0.0	0.0	4.3	11.4	30.9	6.3
Summary	60.9	31.9	46.4	5.0	4.1	4.2	1790	1517	1142	630	278	182	4893	5348	6070	7383	2.1	27.7	247.7	43.6	185.7	22.2

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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: **BARTLETT 1 S, NE US**

GHCND:USC00250525

Elev: 2218 ft. Lat: 41.870° N Lon: 98.549° 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	2.7	1.5	0.5	0.3	0.08	0.25	0.80
2	0.72	2.9	2.0	0.3	-7777	0.18	0.67	1.19
3	1.88	4.3	3.5	1.0	0.5	0.82	1.56	2.54
4	2.94	7.0	5.5	2.0	0.7	1.91	2.95	3.79
5	3.99	9.2	7.4	2.9	1.0	2.82	3.70	5.44
6	4.18	8.3	7.0	2.9	1.1	2.99	4.27	4.91
7	2.96	6.2	4.4	1.7	0.8	1.61	2.67	4.00
8	3.04	6.5	5.2	2.0	0.9	1.68	2.63	3.92
9	2.57	5.4	4.5	2.0	0.6	1.37	2.61	3.20
10	2.23	5.6	4.6	1.7	0.7	0.76	1.44	3.43
11	1.24	3.6	2.5	1.1	0.4	0.37	1.12	1.92
12	0.79	2.8	1.7	0.3	0.1	0.20	0.46	0.99
Summary	27.31	64.5	49.8	18.4	7.1	14.79	24.33	36.13

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Station: **BARTLETT 1 S, NE US**

GHCND:USC00250525
 Elev: 2218 ft. Lat: 41.870° N Lon: 98.549° 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	2.9	2.1	0.9	0.3	0.1	@	@	@	@	2.6	6.3	9.8
2	5.0	2.6	2.3	0.8	0.2	0.0	@	@	@	@	2.0	5.5	7.3
3	6.1	1.8	1.8	0.7	0.3	-7777	@	@	@	@	1.0	4.3	11.0
4	2.4	1.0	0.9	0.4	0.2	0.0	@	@	@	@	0.0	0.5	2.0
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	1.4	0.4	0.3	0.3	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	5.1	2.1	1.5	0.6	0.3	-7777	@	@	@	@	1.5	3.0	8.4
12	5.6	2.4	1.7	0.7	0.3	-7777	@	@	@	@	2.9	4.9	7.0
Summary	32.3	13.2	10.6	4.4	1.7	0.1	9999	9999	9999	9999	10.0	24.5	45.5

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

Station: **BARTLETT 1 S, NE US**

GHCND:USC00250525

Elev: 2218 ft. Lat: 41.870° N Lon: 98.549° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	11	68	223	508	796	999	936	625	288	64	4
45	1	3	31	132	361	647	844	781	480	177	28	1
50	-7777	1	12	69	232	498	690	626	342	92	9	-7777
55	0	-7777	3	33	129	355	535	473	220	41	1	0
60	0	0	1	13	59	225	383	324	123	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	14	21	84	191	345	514	644	603	409	224	67	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	15	83	306	814	1610	2609	3545	4170	4458	4522	4526
45	1	4	35	167	528	1175	2019	2800	3280	3457	3485	3486
50	-7777	1	13	82	314	812	1502	2128	2470	2562	2571	-7777
55	0	-7777	3	36	165	520	1055	1528	1748	1789	1790	1790
60	0	0	1	14	73	298	681	1005	1128	1142	-7777	1142
Growing Degree Units for Corn (Monthly)												
50/86	14	35	119	310	655	1169	1813	2416	2825	3049	3116	3129

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: **TRYON, NE US**

GHCND:USC00258650
Elev: 3248 ft. Lat: 41.552° N Lon: 100.958° 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	11.9	25.1	6.1	3.4	4.6	0	0	0	0	0	0	927	989	1082	1237	0.0	0.0	6.5	10.3	30.8	4.5
2	41.9	14.3	28.1	6.5	4.8	5.5	-7777	0	0	0	0	0	753	809	893	1033	0.0	0.0	8.6	6.8	27.5	3.2
3	50.4	21.7	36.1	5.2	3.6	4.0	1	-7777	-7777	0	0	0	589	650	742	897	0.0	0.0	16.4	4.2	27.8	0.6
4	59.6	31.0	45.3	4.9	2.2	3.3	25	17	8	1	-7777	-7777	316	367	449	592	0.0	0.0	22.6	0.5	16.3	0.0
5	70.8	42.0	56.4	4.1	2.5	3.0	128	95	57	16	2	1	85	113	168	283	0.0	0.4	30.3	0.0	3.8	0.0
6	80.2	52.6	66.4	3.6	3.3	3.1	347	292	215	106	39	24	6	10	23	64	0.1	4.4	29.9	0.0	0.0	0.0
7	86.4	58.3	72.3	3.1	2.4	2.5	538	476	385	240	120	83	-7777	1	2	12	1.2	9.9	31.0	0.0	0.0	0.0
8	84.9	57.3	71.1	3.4	2.8	2.8	499	438	348	204	88	55	1	2	4	16	0.5	8.1	31.0	0.0	0.0	0.0
9	76.7	45.0	60.9	3.0	2.5	2.4	217	174	118	50	13	6	41	58	92	174	0.0	3.1	29.5	0.0	1.3	0.0
10	63.7	33.3	48.5	4.2	2.2	2.4	38	23	10	2	-7777	-7777	240	287	367	513	0.0	0.5	26.2	0.8	11.9	0.0
11	49.0	21.0	35.0	5.5	3.4	4.3	2	1	-7777	0	0	0	602	661	750	900	0.0	0.0	14.6	3.7	25.9	0.9
12	38.4	12.8	25.6	6.6	4.4	5.3	0	0	0	0	0	0	911	973	1066	1221	0.0	0.0	6.4	9.1	30.7	3.5
Summary	61.7	33.4	47.6	4.7	3.1	3.6	1795	1516	1141	619	262	169	4471	4920	5638	6942	1.8	26.4	253.0	35.4	176.0	12.7

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Asheville, North Carolina 28801
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Station: TRYON, NE US

GHCND:USC00258650
Elev: 3248 ft. Lat: 41.552° N Lon: 100.958° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	19	84	211	511	792	1002	963	627	304	74	6
45	1	5	36	120	366	642	847	809	481	189	34	1
50	-7777	1	10	58	234	494	693	654	342	96	11	-7777
55	0	-7777	1	25	128	347	538	499	217	38	2	0
60	0	0	-7777	8	57	215	385	348	118	10	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	38	100	172	331	493	645	622	407	232	85	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	26	110	321	832	1624	2626	3589	4216	4520	4594	4600
45	1	6	42	162	528	1170	2017	2826	3307	3496	3530	3531
50	-7777	1	11	69	303	797	1490	2144	2486	2582	2593	-7777
55	0	-7777	1	26	154	501	1039	1538	1755	1793	1795	1795
60	0	0	-7777	8	65	280	665	1013	1131	1141	-7777	1141
Growing Degree Units for Corn (Monthly)												
50/86	19	57	157	329	660	1153	1798	2420	2827	3059	3144	3165

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: **SYRACUSE, NE US**

GHCND:USC00258395

Elev: 1099 ft. Lat: 40.666° N Lon: 96.189° 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	12.6	23.8	6.5	5.5	5.8	0	0	0	0	0	0	965	1028	1121	1275	0.0	0.0	4.4	12.8	30.4	5.2
2	40.0	16.7	28.4	6.7	6.1	6.1	1	-7777	-7777	-7777	0	0	747	802	886	1026	0.0	0.0	7.1	8.3	25.6	3.0
3	52.0	26.7	39.3	4.9	3.8	3.9	14	10	5	1	-7777	-7777	499	557	645	796	0.0	0.0	16.8	2.4	22.3	0.4
4	64.3	37.6	51.0	4.5	3.2	3.7	77	58	37	14	4	2	198	239	308	436	0.0	0.5	25.5	-7777	8.9	0.0
5	74.4	49.5	61.9	3.4	3.2	3.1	247	200	140	64	20	11	31	47	80	159	0.0	1.6	30.8	0.0	0.7	0.0
6	84.1	60.0	72.1	3.1	2.8	2.8	512	453	366	230	118	84	1	2	5	19	0.3	6.6	30.0	0.0	0.0	0.0
7	88.7	64.6	76.6	2.8	2.3	2.3	671	609	516	363	220	169	0	0	-7777	2	1.5	13.5	31.0	0.0	0.0	0.0
8	87.0	62.3	74.6	3.7	3.1	3.2	609	547	455	306	174	131	-7777	-7777	1	7	1.6	11.0	31.0	0.0	0.0	0.0
9	79.4	52.0	65.7	3.6	2.5	2.8	338	287	217	120	55	36	17	26	46	99	0.1	4.1	29.9	0.0	0.5	0.0
10	66.9	39.6	53.2	3.4	2.7	2.5	97	72	43	15	4	2	151	188	252	380	0.0	0.3	28.6	-7777	7.2	0.0
11	50.9	27.2	39.1	5.9	3.9	4.5	10	6	3	1	-7777	0	489	545	631	779	0.0	0.0	16.0	2.4	21.7	0.2
12	37.3	16.0	26.7	6.3	6.0	5.9	-7777	-7777	0	0	0	0	879	941	1034	1189	0.0	0.0	5.6	10.5	29.3	3.3
Summary	63.3	38.7	51.0	4.6	3.8	3.9	2576	2242	1782	1114	595	435	3977	4375	5009	6167	3.5	37.6	256.7	36.4	146.6	12.1

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

Station: **SYRACUSE, NE US**

GHCND:USC00258395

Elev: 1099 ft. Lat: 40.666° N Lon: 96.189° 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	0.69	3.9	2.1	0.2	-7777	0.24	0.59	1.06
2	0.97	4.6	2.6	0.5	-7777	0.37	0.84	1.26
3	2.16	7.3	4.4	1.6	0.4	1.01	1.91	3.24
4	2.79	8.7	5.8	2.0	0.5	1.96	2.66	3.24
5	5.30	11.7	7.9	3.6	1.7	3.42	4.71	6.37
6	4.33	9.7	6.8	3.0	1.1	2.93	4.10	5.27
7	4.33	8.8	6.0	2.8	1.3	2.45	3.67	4.43
8	3.52	8.8	5.7	2.3	1.0	1.96	2.72	4.79
9	2.83	7.1	4.6	1.8	0.8	1.51	2.32	3.59
10	2.25	7.0	4.4	1.6	0.4	1.13	1.60	3.72
11	1.54	5.2	3.2	1.1	0.3	0.88	1.21	2.27
12	0.89	4.9	2.6	0.4	0.1	0.35	0.64	1.30
Summary	31.60	87.7	56.1	20.9	7.6	18.21	26.97	40.54

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Station: **SYRACUSE, NE US**

GHCND:USC00258395

Elev: 1099 ft. Lat: 40.666° N Lon: 96.189° 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	6.2	3.4	2.0	0.8	0.2	0.0	12.8	7.8	3.7	0.5	1.3	5.7	11.4
2	6.4	3.2	2.2	0.9	0.2	0.0	9.4	5.2	2.3	0.5	3.0	5.4	10.5
3	3.7	1.7	1.4	0.4	0.2	0.0	3.6	1.4	0.8	0.2	0.0	3.8	6.0
4	0.9	0.2	0.2	0.1	0.1	0.0	0.2	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	0.6	0.1	0.1	0.1	-7777	-7777	0.2	0.2	0.1	0.0	0.0	0.0	0.0
11	1.6	1.1	0.8	0.2	-7777	0.0	1.2	0.3	0.1	0.0	0.0	0.7	2.0
12	5.4	3.3	2.0	0.6	0.2	0.0	7.5	4.6	2.8	0.6	1.5	5.2	8.2
Summary	24.8	13.0	8.7	3.1	0.9	0.0	34.9	19.6	9.9	1.8	5.8	20.8	38.1

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GHCND:USC00258395
Elev: 1099 ft. Lat: 40.666° N Lon: 96.189° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	27	130	350	681	961	1136	1074	771	423	115	12
45	2	10	70	234	527	811	981	919	622	292	62	3
50	-7777	2	33	142	379	661	826	764	476	181	28	1
55	0	1	14	77	247	512	671	609	338	97	10	-7777
60	0	-7777	5	37	140	366	516	455	217	43	3	0
Growing Degree Units for Corn (Monthly)												
50/86	15	31	109	234	420	633	758	710	496	281	91	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	36	166	516	1197	2158	3294	4368	5139	5562	5677	5689
45	2	12	82	316	843	1654	2635	3554	4176	4468	4530	4533
50	-7777	2	35	177	556	1217	2043	2807	3283	3464	3492	3493
55	0	1	15	92	339	851	1522	2131	2469	2566	2576	-7777
60	0	-7777	5	42	182	548	1064	1519	1736	1779	1782	1782
Growing Degree Units for Corn (Monthly)												
50/86	15	46	155	389	809	1442	2200	2910	3406	3687	3778	3794

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **IMPERIAL, NE US**

GHCND:USC00254110
 Elev: 3281 ft. Lat: 40.521° N Lon: 101.655° 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	39.4	12.0	25.7	5.7	4.2	4.7	0	0	0	0	0	0	908	970	1063	1218	0.0	0.0	6.7	8.4	30.9	4.3
2	43.6	14.9	29.2	6.4	4.7	5.2	-7777	-7777	0	0	0	0	721	777	861	1001	0.0	0.0	9.8	6.0	27.5	2.9
3	52.6	22.3	37.5	4.0	2.8	3.1	2	1	-7777	0	0	0	546	607	699	854	0.0	0.0	18.5	3.0	26.9	0.6
4	62.3	31.7	47.0	4.4	2.5	3.2	33	22	11	2	-7777	-7777	273	322	401	542	0.0	0.1	24.5	0.5	15.8	0.0
5	72.1	44.4	58.3	3.8	2.4	2.9	166	129	81	28	5	2	65	90	135	238	0.0	0.9	30.1	0.0	1.9	0.0
6	82.1	54.3	68.2	3.5	2.5	2.8	401	343	262	143	60	38	5	7	16	48	0.3	5.7	29.9	0.0	0.0	0.0
7	88.9	60.1	74.5	2.7	1.7	2.1	604	542	450	298	160	114	-7777	-7777	-7777	4	1.4	14.1	31.0	0.0	0.0	0.0
8	86.5	57.8	72.1	3.2	2.0	2.5	532	471	379	233	110	72	-7777	1	3	12	0.6	11.1	31.0	0.0	0.0	0.0
9	78.2	47.0	62.6	3.3	2.2	2.6	259	213	150	68	21	10	31	45	72	140	-7777	3.7	29.6	0.0	1.1	0.0
10	65.3	33.6	49.4	3.7	1.9	2.5	45	29	14	2	-7777	-7777	217	263	341	484	0.0	0.3	27.2	0.4	12.7	0.0
11	50.1	21.5	35.8	5.7	3.2	4.2	1	-7777	-7777	0	0	0	577	636	726	876	0.0	0.0	15.0	3.1	27.1	0.4
12	39.4	12.3	25.9	5.6	4.4	4.8	0	0	0	0	0	0	903	965	1059	1213	0.0	0.0	6.9	7.9	30.9	3.9
Summary	63.4	34.3	48.9	4.3	2.9	3.4	2043	1750	1347	774	356	236	4246	4683	5376	6630	2.3	35.9	260.2	29.3	174.8	12.1

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www.ncdc.noaa.gov

Station: **IMPERIAL, NE US**

GHCND:USC00254110

Elev: 3281 ft. Lat: 40.521° N Lon: 101.655° 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	0.46	3.2	1.4	0.2	0.0	0.16	0.32	0.56
2	0.52	3.7	1.5	0.2	0.0	0.18	0.41	0.69
3	1.28	5.5	2.9	0.7	0.2	0.56	0.77	1.97
4	2.04	6.8	4.0	1.4	0.3	1.36	1.87	2.68
5	3.04	9.2	6.1	1.9	0.9	1.59	2.92	3.96
6	3.32	9.2	6.1	2.2	0.7	2.09	2.95	4.58
7	2.76	7.5	5.3	1.8	0.6	1.85	2.43	3.48
8	2.63	7.1	4.6	1.7	0.8	1.37	2.34	3.57
9	1.41	4.8	3.0	0.9	0.3	0.54	1.30	2.19
10	1.57	5.3	3.3	1.0	0.2	0.49	1.51	2.43
11	0.69	3.6	1.9	0.3	-7777	0.24	0.52	1.10
12	0.50	3.1	1.5	0.1	0.0	0.12	0.31	0.77
Summary	20.22	69.0	41.6	12.4	4.0	10.55	17.65	27.98

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Station: **IMPERIAL, NE US**

GHCND:USC00254110
 Elev: 3281 ft. Lat: 40.521° N Lon: 101.655° 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	3.0	2.2	0.5	0.2	0.0	11.6	6.4	4.5	0.7	1.5	4.0	7.0
2	4.1	2.9	1.8	0.5	0.1	0.0	7.9	4.7	1.7	0.6	1.5	2.5	6.5
3	6.2	3.0	2.3	0.8	0.3	-7777	4.2	1.9	0.6	0.1	3.7	5.2	7.4
4	3.4	1.4	1.2	0.5	0.1	0.0	1.1	0.5	0.1	0.0	0.0	2.0	5.5
5	0.1	-7777	-7777	-7777	0.0	0.0	-7777	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	0.3	0.1	0.1	-7777	-7777	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	1.7	0.6	0.5	0.3	0.2	0.0	0.9	0.5	0.2	0.0	0.0	0.0	0.5
11	4.5	2.1	1.9	0.5	0.1	0.1	4.3	1.2	0.4	0.2	1.5	3.2	5.0
12	4.6	2.6	2.0	0.6	0.2	0.0	9.1	5.9	2.9	0.4	1.0	3.5	7.0
Summary	29.8	15.7	12.0	3.7	1.2	0.1	39.2	21.1	10.4	2.0	9.2	20.4	38.9

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Station: **IMPERIAL, NE US**

GHCND:USC00254110
Elev: 3281 ft. Lat: 40.521° N Lon: 101.655° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	21	92	253	567	846	1069	996	679	321	70	6
45	1	5	39	152	417	696	914	841	532	202	29	1
50	-7777	1	12	77	279	547	759	687	389	106	8	-7777
55	0	-7777	2	33	166	401	604	532	259	45	1	0
60	0	0	-7777	11	81	262	450	379	150	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	23	43	113	206	354	532	688	639	434	251	85	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	28	120	373	940	1786	2855	3851	4530	4851	4921	4927
45	1	6	45	197	614	1310	2224	3065	3597	3799	3828	3829
50	-7777	1	13	90	369	916	1675	2362	2751	2857	2865	-7777
55	0	-7777	2	35	201	602	1206	1738	1997	2042	2043	2043
60	0	0	-7777	11	92	354	804	1183	1333	1347	-7777	1347
Growing Degree Units for Corn (Monthly)												
50/86	23	66	179	385	739	1271	1959	2598	3032	3283	3368	3390

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: **OAKDALE, NE US**

GHCND:USC00256135

Elev: 1749 ft. Lat: 42.064° N Lon: 97.967° 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	33.3	9.9	21.6	6.7	6.1	6.3	0	0	0	0	0	0	1035	1097	1190	1345	0.0	0.0	4.2	14.2	30.7	7.2
2	37.4	14.1	25.7	7.2	5.7	6.3	-7777	-7777	-7777	0	0	0	819	875	959	1099	0.0	0.0	6.4	9.8	26.8	4.1
3	47.8	24.2	36.0	5.3	3.5	4.0	5	3	1	-7777	-7777	-7777	594	654	745	899	0.0	0.0	13.5	4.1	24.3	0.6
4	60.4	35.0	47.7	4.7	3.1	3.6	49	36	22	8	2	1	268	315	391	527	0.0	0.4	23.3	0.5	11.8	0.0
5	70.3	46.8	58.5	3.6	3.0	3.1	174	136	88	34	9	4	64	88	132	234	0.0	0.5	30.2	0.0	1.3	0.0
6	79.7	57.0	68.4	3.5	2.7	2.9	405	349	267	149	66	42	5	8	17	49	0.2	2.8	29.9	0.0	0.0	0.0
7	84.7	62.2	73.4	3.3	2.2	2.5	572	510	418	271	143	103	-7777	-7777	1	9	0.4	7.1	31.0	0.0	0.0	0.0
8	82.9	60.0	71.5	3.3	2.5	2.7	510	449	359	219	106	73	1	2	5	19	0.2	5.4	31.0	0.0	0.0	0.0
9	75.4	48.8	62.1	3.6	2.5	2.6	248	204	145	72	27	16	35	51	82	159	0.0	2.1	29.6	0.0	1.1	0.0
10	63.0	35.8	49.4	3.8	2.6	2.6	51	35	19	5	1	-7777	224	270	347	489	0.0	0.3	26.4	0.2	10.5	0.0
11	47.4	23.3	35.4	6.7	3.9	4.9	4	2	1	-7777	0	0	593	651	740	889	0.0	0.0	13.0	4.4	24.6	0.9
12	34.7	12.3	23.5	7.1	5.8	6.3	0	0	0	0	0	0	976	1038	1131	1286	0.0	0.0	4.5	12.5	30.4	4.9
Summary	59.8	35.8	47.8	4.9	3.6	4.0	2018	1724	1320	758	354	239	4614	5049	5740	7004	0.8	18.6	243.0	45.7	161.5	17.7

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Station: **OAKDALE, NE US**

GHCND:USC00256135
Elev: 1749 ft. Lat: 42.064° N Lon: 97.967° 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	0.48	4.8	1.4	0.2	0.0	0.23	0.33	0.73
2	0.65	5.5	1.8	0.3	0.0	0.28	0.53	0.78
3	1.75	7.4	4.1	1.0	0.3	0.87	1.30	2.48
4	2.84	9.4	5.7	1.9	0.8	1.64	2.54	3.76
5	3.94	10.3	7.2	2.9	0.9	2.74	3.57	5.00
6	4.48	10.0	7.1	3.1	1.2	2.44	3.76	6.13
7	3.23	7.9	5.6	2.1	0.9	1.85	2.67	4.44
8	3.64	7.9	5.4	2.3	1.0	2.02	3.19	4.77
9	2.55	7.2	4.4	1.8	0.6	1.28	2.62	3.59
10	2.19	7.1	4.3	1.5	0.6	0.75	1.60	3.33
11	1.24	5.2	3.0	0.7	0.2	0.35	1.09	1.81
12	0.74	5.3	2.1	0.4	0.1	0.24	0.47	0.90
Summary	27.73	88.0	52.1	18.2	6.6	14.69	23.67	37.72

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Station: **OAKDALE, NE US**

GHCND:USC00256135
 Elev: 1749 ft. Lat: 42.064° N Lon: 97.967° 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	4.1	1.4	0.7	0.2	0.0	14.9	9.9	5.8	0.8	1.7	4.9	8.9
2	5.6	4.1	1.7	0.6	0.2	-7777	11.5	7.2	4.9	0.6	2.7	4.0	8.0
3	6.2	3.8	1.8	0.8	0.3	0.1	6.4	3.1	1.5	0.3	1.8	4.3	7.5
4	2.9	1.4	0.9	0.4	0.2	0.0	1.1	0.4	0.2	0.0	0.0	0.7	4.6
5	-7777	-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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.6	0.3	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.1
11	4.6	2.6	1.4	0.6	0.1	0.1	4.8	1.9	1.0	0.2	1.5	2.7	6.7
12	6.1	4.6	1.9	0.6	0.2	0.0	13.5	7.5	3.9	1.4	1.8	5.0	8.2
Summary	31.6	21.2	9.4	3.8	1.2	0.2	52.5	30.1	17.3	3.3	9.5	21.6	44.0

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GHCND:USC00256135
Elev: 1749 ft. Lat: 42.064° N Lon: 97.967° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	17	86	270	576	851	1037	975	664	319	77	7
45	1	5	41	170	425	700	882	820	517	203	38	1
50	-7777	1	16	96	288	551	727	665	377	111	14	-7777
55	0	-7777	5	49	174	405	572	510	248	51	4	0
60	0	-7777	1	22	88	267	418	359	145	19	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	24	77	184	345	548	693	643	420	220	69	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	24	110	380	956	1807	2844	3819	4483	4802	4879	4886
45	1	6	47	217	642	1342	2224	3044	3561	3764	3802	3803
50	-7777	1	17	113	401	952	1679	2344	2721	2832	2846	-7777
55	0	-7777	5	54	228	633	1205	1715	1963	2014	2018	2018
60	0	-7777	1	23	111	378	796	1155	1300	1319	1320	1320
Growing Degree Units for Corn (Monthly)												
50/86	15	39	116	300	645	1193	1886	2529	2949	3169	3238	3251

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **GRETNA 4 NE, NE US**

GHCND:USC00253467

Elev: 1240 ft. Lat: 41.159° N Lon: 96.192° 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	32.3	12.9	22.6				1	-7777	0	0	0	0	1004	1066	1159	1314	0.0	0.0	2.7	13.7	29.8	6.2
2	37.3	16.6	27.0				-7777	-7777	0	0	0	0	785	841	925	1065	0.0	0.0	5.3	9.2	26.2	2.0
3	49.0	26.4	37.7				10	6	3	-7777	0	0	546	605	694	847	0.0	0.0	14.7	2.3	23.8	0.3
4	61.7	37.9	49.8				54	38	19	3	-7777	0	210	254	325	459	0.0	0.0	25.2	0.0	8.2	0.0
5	72.7	50.4	61.6				230	183	122	50	13	7	27	42	74	157	0.0	0.8	30.8	0.0	0.0	0.0
6	82.4	60.5	71.5				493	434	345	203	87	54	-7777	1	2	10	0.0	2.3	30.0	0.0	0.0	0.0
7	86.2	65.5	75.9				646	584	491	338	194	141	0	0	-7777	2	0.4	8.0	31.0	0.0	0.0	0.0
8	84.2	63.1	73.6				578	516	424	275	143	100	-7777	-7777	1	8	0.0	5.1	31.0	0.0	0.0	0.0
9	77.0	52.9	65.0				311	260	189	93	35	22	13	22	41	95	0.0	1.7	30.0	0.0	0.0	0.0
10	64.4	40.7	52.6				88	65	38	15	4	2	165	203	269	401	0.0	0.1	28.1	0.0	5.9	0.0
11	48.3	27.9	38.1				4	2	1	-7777	0	0	511	569	658	807	0.0	0.0	13.3	2.3	21.1	0.0
12	35.0	16.4	25.7				-7777	-7777	0	0	0	0	907	970	1063	1218	0.0	0.0	4.0	12.7	29.1	2.4
Summary	60.9	39.3	50.1	9999	9999	9999	2415	2088	1632	977	476	326	4168	4573	5211	6383	0.4	18.0	246.1	40.2	144.1	10.9

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www.ncdc.noaa.gov

Station: **GRETN 4 NE, NE US**

GHCND:USC00253467

Elev: 1240 ft. Lat: 41.159° N Lon: 96.192° 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	6.8	2.5	0.6	0.0	0.42	0.73	1.10
2	1.14	7.5	3.2	0.8	0.2	0.66	1.07	1.43
3	2.13	8.9	4.9	1.4	0.2	1.06	1.94	2.83
4	3.20	11.2	6.9	2.2	1.0	1.96	3.02	4.30
5	4.62	12.7	7.6	2.5	1.2	2.31	4.44	6.32
6	4.98	12.1	7.3	3.6	1.7	3.37	5.03	6.21
7	4.68	10.4	5.4	2.3	1.1	2.24	4.08	6.24
8	4.13	9.7	6.0	2.8	1.0	1.76	3.12	6.11
9	3.06	8.1	4.8	1.5	0.8	2.18	2.77	4.26
10	2.26	8.9	4.9	1.9	0.6	0.96	1.70	3.13
11	1.61	5.4	2.3	1.0	0.4	0.92	1.74	2.37
12	1.06	7.3	2.8	0.6	0.1	0.50	0.82	1.44
Summary	33.64	109.0	58.6	21.2	8.3	18.34	30.46	45.74

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Station: **GRETN 4 NE, NE US**

GHCND:USC00253467
 Elev: 1240 ft. Lat: 41.159° N Lon: 96.192° 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	10.2	5.0	2.2	1.3	0.5	0.1	16.2	10.0	6.7	2.5	6.9	9.6	15.1
2	11.0	5.1	2.8	1.3	0.8	0.2	13.8	9.8	6.6	1.6	7.7	11.2	13.4
3	6.9	3.0	1.8	0.8	0.5	0.0	5.9	3.7	2.2	0.7	0.6	5.6	12.2
4	1.0	0.8	0.3	0.1	0.1	0.0	0.3	0.2	0.2	0.0	0.0	0.0	0.4
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	1.5	0.4	0.4	0.1	0.1	0.1	0.6	0.4	0.2	0.1	0.0	0.0	0.0
11	1.3	1.4	0.4	0.1	0.0	0.0	1.1	0.2	0.0	0.0	0.0	0.4	1.9
12	8.5	5.7	2.1	0.9	0.4	0.1	10.6	7.6	4.5	1.5	3.3	6.3	10.1
Summary	40.4	21.4	10.0	4.6	2.4	0.5	48.5	31.9	20.4	6.4	18.5	33.1	53.1

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

Station: **GRETNA 4 NE, NE US**

GHCND:USC00253467

Elev: 1240 ft. Lat: 41.159° N Lon: 96.192° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	18	93	322	668	943	1111	1043	748	398	84	9
45	3	7	48	207	514	793	956	888	599	270	39	1
50	1	1	23	115	365	643	801	732	450	164	13	-7777
55	1	-7777	10	54	230	493	646	578	311	88	4	-7777
60	0	0	3	19	122	345	491	424	189	38	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	18	74	197	396	631	763	708	468	241	55	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	25	118	440	1108	2051	3162	4205	4953	5351	5435	5444
45	3	10	58	265	779	1572	2528	3416	4015	4285	4324	4325
50	1	2	25	140	505	1148	1949	2681	3131	3295	3308	-7777
55	1	-7777	11	65	295	788	1434	2012	2323	2411	2415	-7777
60	0	0	3	22	144	489	980	1404	1593	1631	1632	1632
Growing Degree Units for Corn (Monthly)												
50/86	8	26	100	297	693	1324	2087	2795	3263	3504	3559	3567

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: **NEBRASKA CITY 2 NW, NE US**

GHCND:USC00255810

Elev: 1056 ft. Lat: 40.699° N Lon: 95.887° 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	34.2	14.3	24.3	6.3	5.7	5.8	0	0	0	0	0	0	953	1015	1108	1263	0.0	0.0	3.9	13.0	29.8	4.5
2	39.4	18.3	28.9	6.7	5.9	6.1	1	-7777	-7777	-7777	0	0	733	788	872	1012	0.0	0.0	6.8	8.7	24.9	2.3
3	51.5	28.6	40.0	5.0	3.6	3.9	14	10	5	1	-7777	-7777	478	535	623	774	0.0	0.0	16.3	2.4	19.4	0.2
4	64.0	39.3	51.6	4.7	2.9	3.6	80	60	37	14	3	1	181	220	287	414	0.0	0.4	25.8	-7777	6.1	0.0
5	73.6	50.9	62.2	3.3	3.0	3.0	251	203	140	62	18	9	26	40	71	147	0.0	0.7	30.8	0.0	0.1	0.0
6	82.7	60.7	71.7	3.1	2.5	2.6	501	442	355	218	105	71	-7777	1	4	17	0.0	4.1	30.0	0.0	0.0	0.0
7	86.7	65.4	76.0	2.7	2.1	2.2	652	591	498	345	200	149	-7777	-7777	-7777	2	0.6	9.8	31.0	0.0	0.0	0.0
8	85.0	63.1	74.0	3.4	2.9	3.0	590	529	436	286	155	113	-7777	-7777	1	6	0.4	7.8	31.0	0.0	0.0	0.0
9	78.0	53.5	65.8	3.5	2.5	2.7	338	286	214	115	48	30	15	23	42	92	-7777	2.7	29.9	0.0	0.1	0.0
10	65.9	41.6	53.8	3.2	2.7	2.6	99	74	44	14	4	2	138	174	237	363	0.0	0.2	28.6	0.0	4.5	0.0
11	50.6	29.4	40.0	5.8	4.0	4.7	12	7	3	1	-7777	0	462	517	603	751	0.0	0.0	15.6	2.3	18.7	0.0
12	36.9	17.8	27.4	6.0	6.2	5.9	-7777	-7777	0	0	0	0	857	919	1012	1167	0.0	0.0	4.7	10.6	29.0	2.7
Summary	62.4	40.2	51.3	4.5	3.7	3.8	2538	2202	1732	1056	533	375	3843	4232	4860	6008	1.0	25.7	254.4	37.0	132.6	9.7

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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: **NEBRASKA CITY 2 NW, NE US**

GHCND:USC00255810

Elev: 1056 ft. Lat: 40.699° N Lon: 95.887° 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	0.76	4.3	2.5	0.3	0.0	0.36	0.75	1.09
2	1.06	4.7	2.9	0.5	0.1	0.43	0.89	1.22
3	2.13	6.6	4.7	1.4	0.5	1.10	1.84	3.49
4	3.49	8.3	6.2	2.2	0.9	1.78	3.02	5.17
5	5.20	10.4	8.0	3.6	1.7	2.72	4.22	7.69
6	4.56	9.1	6.9	3.1	1.3	2.69	4.18	6.22
7	4.63	8.2	6.6	2.9	1.3	2.74	3.57	6.01
8	3.21	7.0	5.2	2.0	0.8	1.51	2.84	4.52
9	2.97	6.6	4.9	2.1	0.9	1.54	2.61	4.61
10	2.60	6.4	4.4	1.7	0.5	1.26	1.99	3.06
11	1.69	5.2	3.6	1.2	0.3	1.00	1.50	2.49
12	1.36	5.0	3.3	0.8	0.2	0.59	1.05	2.06
Summary	33.66	81.8	59.2	21.8	8.5	17.72	28.46	47.63

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Station: **NEBRASKA CITY 2 NW, NE US**

GHCND:USC00255810

Elev: 1056 ft. Lat: 40.699° N Lon: 95.887° 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	6.5	3.2	2.3	0.9	0.5	-7777	11.4	8.1	4.5	1.1	1.3	5.5	8.0
2	7.3	3.2	2.4	1.1	0.5	0.0	9.4	6.3	3.9	1.2	1.5	7.0	12.0
3	3.5	1.2	1.1	0.4	0.1	0.0	3.3	1.8	0.8	0.3	0.0	2.2	4.6
4	0.9	0.2	0.2	0.1	0.1	-7777	0.5	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	-7777	-7777	-7777	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0
11	0.9	0.6	0.4	0.1	0.0	0.0	1.1	0.3	-7777	0.0	0.0	0.4	1.0
12	6.9	3.0	2.1	0.8	0.3	-7777	7.8	5.3	2.7	0.8	0.0	6.5	8.5
Summary	26.1	11.4	8.5	3.4	1.5	0.0	33.7	22.3	12.2	3.5	2.8	21.6	34.1

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www.ncdc.noaa.gov

Station: **NEBRASKA CITY 2 NW, NE US**

GHCND:USC00255810
Elev: 1056 ft. Lat: 40.699° N Lon: 95.887° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	30	139	367	690	951	1117	1055	773	436	129	14
45	2	11	74	247	536	801	962	900	623	301	68	4
50	-7777	2	35	149	387	651	807	745	477	186	31	1
55	0	1	14	80	251	501	652	590	338	99	12	-7777
60	0	-7777	5	37	140	355	498	436	214	44	3	0
Growing Degree Units for Corn (Monthly)												
50/86	11	28	103	230	416	633	762	709	490	266	87	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	39	178	545	1235	2186	3303	4358	5131	5567	5696	5710
45	2	13	87	334	870	1671	2633	3533	4156	4457	4525	4529
50	-7777	2	37	186	573	1224	2031	2776	3253	3439	3470	3471
55	0	1	15	95	346	847	1499	2089	2427	2526	2538	-7777
60	0	-7777	5	42	182	537	1035	1471	1685	1729	1732	1732
Growing Degree Units for Corn (Monthly)												
50/86	11	39	142	372	788	1421	2183	2892	3382	3648	3735	3748

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: **KIMBALL 2 NE, NE US**

GHCND:USC00254440
 Elev: 4708 ft. Lat: 41.245° N Lon: 103.634° 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	14.3	27.0	5.2	3.9	4.3	0	0	0	0	0	0	868	930	1023	1178	0.0	0.0	7.1	7.9	30.6	3.2
2	41.8	16.2	29.0	5.2	4.2	4.4	-7777	0	0	0	0	0	728	784	868	1008	0.0	0.0	8.6	6.2	27.0	2.5
3	49.2	23.1	36.2	4.2	2.9	3.2	1	1	-7777	0	0	0	586	647	740	894	0.0	0.0	16.0	4.3	27.4	0.5
4	57.7	30.6	44.1	4.6	2.7	3.2	16	9	4	-7777	0	0	342	395	479	626	0.0	-7777	21.9	1.1	17.3	0.0
5	67.5	41.0	54.3	3.8	2.2	2.7	96	68	36	8	1	-7777	119	153	214	342	0.0	0.3	28.5	0.0	3.2	0.0
6	78.0	50.4	64.2	3.8	2.5	2.9	292	240	169	76	23	12	16	24	43	100	0.1	3.1	29.8	0.0	-7777	0.0
7	85.6	56.5	71.1	3.0	1.6	2.1	498	437	346	203	86	53	1	2	4	15	0.3	10.3	31.0	0.0	0.0	0.0
8	83.5	54.3	68.9	2.8	2.1	2.2	433	372	284	149	50	27	2	4	8	29	-7777	6.1	31.0	0.0	0.0	0.0
9	74.5	44.1	59.3	3.3	2.2	2.4	186	145	93	33	5	2	57	76	114	204	0.0	1.7	28.9	0.1	1.8	0.0
10	61.6	31.7	46.6	3.9	2.2	2.6	25	15	6	-7777	-7777	0	284	336	420	569	0.0	-7777	25.0	0.7	14.8	0.0
11	48.0	21.9	34.9	6.3	3.1	4.4	1	-7777	-7777	0	0	0	602	662	751	901	0.0	0.0	13.4	4.1	25.9	0.6
12	39.2	13.5	26.3	4.8	4.3	4.4	0	0	0	0	0	0	888	950	1043	1198	0.0	0.0	7.0	8.7	30.6	3.7
Summary	60.5	33.1	46.8	4.2	2.8	3.2	1548	1287	938	469	165	94	4493	4963	5707	7064	0.4	21.5	248.2	33.1	178.6	10.5

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-4444: year-round risk of frost-freeze

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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: **KIMBALL 2 NE, NE US**

GHCND:USC00254440
Elev: 4708 ft. Lat: 41.245° N Lon: 103.634° 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	0.29	3.3	1.0	0.1	0.0	0.10	0.28	0.43
2	0.35	4.0	1.3	0.0	0.0	0.14	0.42	0.47
3	0.95	5.9	2.9	0.4	0.1	0.34	0.67	1.31
4	1.70	7.4	3.9	1.1	0.2	0.74	1.40	2.59
5	2.68	11.2	6.2	1.6	0.4	1.54	2.43	3.45
6	2.76	10.0	6.6	1.6	0.4	1.48	2.48	3.08
7	2.81	9.0	5.3	1.6	0.6	1.76	2.53	3.34
8	1.86	8.4	4.4	1.2	0.4	1.18	1.70	2.84
9	1.37	6.9	3.4	0.8	0.1	0.62	1.18	1.85
10	1.13	5.9	2.9	0.6	0.2	0.45	0.87	1.79
11	0.54	4.2	1.8	0.1	0.0	0.23	0.50	0.82
12	0.46	4.2	1.7	0.1	0.0	0.11	0.35	0.70
Summary	16.90	80.4	41.4	9.2	2.4	8.69	14.81	22.67

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Station: **KIMBALL 2 NE, NE US**

GHCND:USC00254440
 Elev: 4708 ft. Lat: 41.245° N Lon: 103.634° 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	2.9	1.4	0.4	0.1	-7777	6.9	2.8	1.0	-7777	0.8	2.8	4.9
2	4.6	3.5	2.1	0.4	0.1	0.0	6.2	1.8	0.8	0.0	1.0	4.7	5.6
3	7.9	4.1	3.1	0.9	0.2	-7777	4.4	1.6	0.7	0.1	3.0	6.1	12.2
4	4.7	2.2	1.6	0.5	0.3	0.0	2.1	0.7	0.4	-7777	0.6	3.0	7.0
5	0.5	0.2	0.2	0.1	0.1	0.0	0.1	-7777	-7777	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	0.3	0.2	0.2	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	2.1	0.9	0.8	0.5	0.2	-7777	0.9	0.6	0.3	-7777	0.0	0.0	4.0
11	5.2	2.8	2.1	0.8	0.3	0.0	4.5	2.0	0.6	0.1	1.2	3.5	5.5
12	6.9	3.9	2.6	1.0	0.4	0.0	9.2	5.1	3.5	0.5	3.0	6.0	10.0
Summary	35.4	20.7	14.1	4.7	1.7	0.0	34.4	14.6	7.3	0.7	9.6	26.1	49.2

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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: **KIMBALL 2 NE, NE US**

GHCND:USC00254440
Elev: 4708 ft. Lat: 41.245° N Lon: 103.634° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	17	73	191	447	726	962	895	582	253	70	10
45	2	3	28	105	308	577	807	741	439	148	29	2
50	-7777	-7777	7	48	188	430	652	586	305	70	7	-7777
55	0	-7777	1	16	96	292	498	433	186	25	1	0
60	0	0	-7777	4	36	169	346	284	93	6	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	22	30	82	154	280	446	609	564	374	207	75	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	28	101	292	739	1465	2427	3322	3904	4157	4227	4237
45	2	5	33	138	446	1023	1830	2571	3010	3158	3187	3189
50	-7777	-7777	7	55	243	673	1325	1911	2216	2286	2293	-7777
55	0	-7777	1	17	113	405	903	1336	1522	1547	1548	1548
60	0	0	-7777	4	40	209	555	839	932	938	-7777	938
Growing Degree Units for Corn (Monthly)												
50/86	22	52	134	288	568	1014	1623	2187	2561	2768	2843	2865

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: **GRESHAM 3 W, NE US**

GHCND:USC00253461

Elev: 1624 ft. Lat: 41.031° N Lon: 97.470° 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	3.2	1.8	0.2	0.0	0.27	0.57	0.80
2	0.64	3.6	2.5	0.1	0.0	0.44	0.57	0.81
3	2.05	5.2	4.3	1.3	0.4	1.09	1.66	2.98
4	2.77	5.8	4.8	1.9	0.6	1.48	2.67	3.84
5	4.80	8.7	7.7	3.4	1.2	3.37	4.82	6.15
6	3.82	7.3	6.1	2.4	1.0	2.03	3.32	5.00
7	3.46	6.4	5.4	2.4	0.8	1.80	2.98	4.89
8	3.49	5.7	4.8	2.1	0.9	1.57	3.32	4.39
9	2.67	4.7	3.9	1.8	0.9	1.20	2.25	3.86
10	2.04	4.3	3.7	1.3	0.6	0.80	1.56	3.05
11	1.37	3.6	2.8	1.0	0.3	0.55	1.18	2.22
12	0.73	3.4	2.0	0.3	0.0	0.23	0.58	0.98
Summary	28.40	61.9	49.8	18.2	6.7	14.83	25.48	38.97

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Station: **GRESHAM 3 W, NE US**

GHCND:USC00253461

Elev: 1624 ft. Lat: 41.031° N Lon: 97.470° 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	2.4	2.1	0.7	0.3	-7777	12.2	7.4	4.2	1.9	1.5	5.5	9.0
2	6.1	2.5	2.4	1.0	0.3	0.0	11.0	7.7	4.6	1.2	4.0	6.0	9.0
3	4.2	1.5	1.3	0.6	0.3	-7777	4.7	2.3	1.5	0.5	0.0	2.0	6.0
4	1.1	0.3	0.3	0.2	0.1	0.0	0.6	0.3	0.1	-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	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.2	0.2	0.1	0.1	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.5	1.0	1.0	0.4	0.1	-7777	1.4	0.2	-7777	0.0	0.0	2.0	3.5
12	4.2	2.0	2.0	0.6	0.2	0.0	8.6	5.1	3.9	1.4	1.0	4.0	7.0
Summary	24.8	9.9	9.3	3.6	1.4	0.0	38.8	23.2	14.4	5.1	6.5	19.5	34.5

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

Station: VALLEY 1 WNW, NE US

GHCND:USC00258795
Elev: 1145 ft. Lat: 41.320° N Lon: 96.367° 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	32.3	14.2	23.3	6.4	6.0	6.1	0	0	0	0	0	0	984	1046	1139	1294	0.0	0.0	3.1	14.4	29.6	4.7
2	36.8	17.7	27.3	6.5	5.7	6.0	-7777	-7777	-7777	-7777	0	0	777	833	917	1057	0.0	0.0	5.0	10.2	25.2	2.4
3	48.6	28.0	38.3	4.6	3.5	3.8	8	5	2	-7777	0	0	526	585	675	828	0.0	0.0	14.8	2.9	20.1	0.3
4	61.5	39.7	50.6	4.4	3.1	3.6	61	43	23	7	1	-7777	193	235	305	439	0.0	0.1	24.8	0.1	5.4	0.0
5	72.4	52.0	62.2	3.4	2.8	2.9	247	200	139	65	24	14	24	39	71	152	0.0	0.9	30.7	0.0	0.0	0.0
6	82.2	62.3	72.2	3.0	2.5	2.6	518	458	371	234	118	82	-7777	1	4	16	0.0	4.2	30.0	0.0	0.0	0.0
7	86.0	67.1	76.5	2.8	2.1	2.3	668	606	513	359	213	160	-7777	-7777	-7777	1	0.3	7.8	31.0	0.0	0.0	0.0
8	84.0	64.1	74.0	3.4	2.9	2.9	590	529	436	286	151	108	-7777	-7777	-7777	5	0.1	5.1	31.0	0.0	0.0	0.0
9	76.9	54.3	65.6	3.4	2.5	2.7	330	278	206	108	44	27	12	20	38	90	0.1	1.2	29.9	0.0	0.0	0.0
10	64.3	41.9	53.1	3.5	2.1	2.6	93	69	42	16	5	3	152	189	256	385	0.0	0.2	27.9	0.1	4.6	0.0
11	48.6	28.8	38.7	5.9	3.9	4.7	9	5	2	-7777	0	0	498	554	641	789	0.0	0.0	13.9	2.6	19.7	0.0
12	34.6	17.3	25.9	5.8	6.4	6.0	0	0	0	0	0	0	900	962	1055	1210	0.0	0.0	3.5	12.6	29.8	2.7
Summary	60.7	40.6	50.6	4.4	3.6	3.9	2524	2193	1734	1075	556	394	4066	4464	5101	6266	0.5	19.5	245.6	42.9	134.4	10.1

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www.ncdc.noaa.gov

Station: **VALLEY 1 WNW, NE US**

GHCND:USC00258795

Elev: 1145 ft. Lat: 41.320° N Lon: 96.367° 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	0.79	6.4	2.0	0.3	0.0	0.38	0.81	1.11
2	0.92	6.6	2.8	0.4	0.2	0.49	0.78	1.28
3	2.00	8.4	4.1	1.1	0.1	0.98	1.58	2.91
4	3.03	10.6	7.1	2.5	0.8	2.03	2.63	3.98
5	4.58	12.6	7.9	2.8	1.4	2.62	4.77	5.74
6	5.09	11.4	7.6	3.1	1.7	2.73	4.59	6.72
7	4.45	9.8	5.6	2.5	1.1	2.20	3.68	5.37
8	4.06	9.2	5.7	2.8	1.2	2.72	3.66	5.11
9	2.85	7.4	4.6	1.8	0.8	1.90	2.75	3.41
10	2.29	7.5	4.5	1.4	0.6	1.05	1.87	2.71
11	1.47	5.8	2.5	1.2	0.2	0.85	1.55	1.94
12	1.11	6.2	2.4	0.5	0.1	0.43	0.85	1.37
Summary	32.64	101.9	56.8	20.4	8.2	18.38	29.52	41.65

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Station: VALLEY 1 WNW, NE US

GHCND:USC00258795
 Elev: 1145 ft. Lat: 41.320° N Lon: 96.367° 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	8.4	5.6	2.5	0.9	0.5	0.0	15.7	8.9	5.1	2.0	5.2	7.6	10.8
2	8.9	5.0	2.5	1.0	0.6	0.0	11.6	7.9	4.2	1.1	4.5	9.0	12.8
3	5.9	2.9	1.6	0.7	0.4	0.0	4.4	2.6	1.6	0.5	0.8	3.9	10.1
4	1.6	0.9	0.4	0.3	0.1	0.0	0.5	0.3	0.1	0.0	0.0	0.0	0.6
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	1.2	0.4	0.3	0.2	0.1	0.0	0.4	0.3	0.2	0.0	0.0	0.0	0.0
11	1.0	1.4	0.4	0.1	0.0	0.0	0.9	0.1	0.0	0.0	0.0	0.6	1.5
12	6.6	5.3	2.2	0.8	0.4	0.1	9.8	6.4	4.3	0.9	1.8	5.2	7.0
Summary	33.6	21.5	9.9	4.0	2.1	0.1	43.3	26.5	15.5	4.5	12.3	26.3	42.8

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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: VALLEY 1 WNW, NE US

GHCND:USC00258795

Elev: 1145 ft. Lat: 41.320° N Lon: 96.367° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	20	113	339	688	967	1133	1055	768	418	106	7
45	1	6	57	222	534	817	978	900	618	286	55	2
50	-7777	1	25	126	383	667	823	745	471	175	25	-7777
55	0	-7777	8	61	247	518	668	590	330	93	9	0
60	0	-7777	2	23	139	371	513	436	206	42	2	0
Growing Degree Units for Corn (Monthly)												
50/86	8	18	76	198	406	650	785	719	483	248	70	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	26	139	478	1166	2133	3266	4321	5089	5507	5613	5620
45	1	7	64	286	820	1637	2615	3515	4133	4419	4474	4476
50	-7777	1	26	152	535	1202	2025	2770	3241	3416	3441	-7777
55	0	-7777	8	69	316	834	1502	2092	2422	2515	2524	2524
60	0	-7777	2	25	164	535	1048	1484	1690	1732	1734	1734
Growing Degree Units for Corn (Monthly)												
50/86	8	26	102	300	706	1356	2141	2860	3343	3591	3661	3668

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: **LORETTO 7 W, NE US**

GHCND:USC00254945

Elev: 2100 ft. Lat: 41.761° N Lon: 98.214° 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	0.51	4.4	1.4	0.3	0.0	0.17	0.46	0.80
2	0.69	5.3	2.2	0.4	0.0	0.30	0.65	0.88
3	1.58	6.6	3.2	0.6	0.2	0.62	1.12	2.28
4	2.52	9.5	5.8	1.6	0.6	1.69	2.39	3.12
5	4.17	10.6	6.8	3.3	1.1	2.68	3.75	4.78
6	4.08	11.4	7.7	2.8	0.9	2.31	3.81	5.06
7	3.17	8.9	5.7	2.5	0.7	1.69	2.44	4.36
8	3.16	8.5	5.5	2.4	0.9	1.97	3.02	4.25
9	2.72	6.6	4.6	1.7	0.9	1.18	2.42	3.98
10	2.21	7.1	4.9	1.3	0.7	0.89	1.68	3.42
11	1.19	4.5	2.5	0.6	0.1	0.31	1.06	1.89
12	0.67	4.9	1.6	0.2	0.1	0.23	0.47	1.01
Summary	26.67	88.3	51.9	17.7	6.2	14.04	23.27	35.83

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 1981-2010**

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

Station: **LORETTO 7 W, NE US**

GHCND:USC00254945
 Elev: 2100 ft. Lat: 41.761° N Lon: 98.214° 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	6.6	4.7	1.8	0.9	0.3	0.1	13.8	9.7	4.8	1.1	2.2	5.2	8.3
2	7.0	4.6	2.3	0.8	0.2	0.0	12.9	9.2	5.2	1.6	4.3	7.2	10.0
3	6.4	3.6	1.9	0.7	0.3	0.1	7.0	4.1	2.3	0.6	1.2	2.3	11.0
4	3.4	1.3	0.9	0.5	0.2	0.1	1.5	0.9	0.4	0.1	0.0	1.0	7.8
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	1.0	0.7	0.3	0.2	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0
11	3.4	2.2	1.2	0.3	0.1	0.0	5.2	1.8	0.8	0.0	0.8	2.1	4.5
12	5.0	4.9	2.2	0.7	0.3	0.0	13.2	7.8	3.2	0.7	1.8	3.8	6.0
Summary	32.8	22.0	10.6	4.1	1.4	0.3	54.2	33.9	16.7	4.1	10.3	21.6	47.6

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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: **STOCKVILLE, NE US**

GHCND:USC00258215
Elev: 2451 ft. Lat: 40.525° N Lon: 100.382° 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	0.42	1.8	1.0	0.1	-7777	0.09	0.32	0.53
2	0.59	2.8	1.7	0.1	0.1	0.22	0.46	0.87
3	1.24	4.0	2.7	0.7	0.2	0.42	0.94	2.08
4	2.06	5.1	4.1	1.5	0.6	1.00	1.93	3.00
5	3.38	7.9	6.3	2.5	0.8	1.81	3.24	4.71
6	3.66	7.9	6.5	2.9	0.8	2.62	3.02	5.18
7	3.20	6.3	5.4	2.4	1.0	1.48	2.75	4.60
8	2.68	5.5	4.7	1.8	0.7	1.06	2.35	3.35
9	1.51	3.9	3.3	1.1	0.3	0.52	1.27	2.25
10	1.85	4.2	3.5	1.3	0.5	0.78	1.65	2.59
11	0.92	2.6	2.0	0.7	0.2	0.31	0.68	1.55
12	0.45	1.7	1.1	0.1	0.1	0.05	0.26	0.55
Summary	21.96	53.7	42.3	15.2	5.3	10.36	18.87	31.26

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

Station: **STOCKVILLE, NE US**

GHCND:USC00258215
 Elev: 2451 ft. Lat: 40.525° N Lon: 100.382° 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	4.0	1.7	1.6	0.4	0.3	0.1	10.6	6.5	4.0	1.0	0.5	2.5	7.0
2	4.9	2.0	1.8	0.7	0.2	0.0	8.6	5.3	2.0	0.3	1.5	4.0	8.0
3	4.0	1.5	1.5	0.6	0.1	0.1	2.1	0.8	0.2	0.1	0.0	3.0	4.0
4	1.9	0.6	0.6	0.2	0.1	-7777	0.5	0.4	0.1	-7777	0.0	0.0	3.5
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	0.2	-7777	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.3	0.1	0.1	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
11	2.8	1.0	0.9	0.3	0.1	0.1	2.2	1.2	0.8	0.2	0.0	1.0	3.0
12	3.9	1.4	1.3	0.6	0.2	-7777	7.0	4.4	2.8	1.4	0.0	1.8	6.0
Summary	22.5	8.5	8.0	2.9	1.1	0.3	31.3	18.7	9.9	3.0	2.0	12.3	31.5

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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: **STANTON 7 NE, NE US**

GHCND:USC00258117
Elev: 1581 ft. Lat: 42.041° N Lon: 97.175° 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	31.9	10.5	21.2				-7777	0	0	0	0	0	1048	1110	1203	1358	0.0	0.0	3.2	15.3	30.3	8.3
2	36.2	14.8	25.5				-7777	0	0	0	0	0	825	882	966	1106	0.0	0.0	4.8	11.2	26.6	4.1
3	47.4	24.8	36.1				4	2	-7777	-7777	0	0	590	650	741	896	0.0	0.0	13.7	3.2	24.5	0.7
4	61.2	35.3	48.3				40	28	14	3	-7777	-7777	243	290	367	506	0.0	0.1	25.4	0.1	10.4	0.0
5	71.9	47.8	59.9				194	151	97	39	11	6	44	63	102	199	0.0	0.7	30.9	0.0	0.4	0.0
6	81.2	58.0	69.6				439	381	295	167	68	40	1	3	8	29	0.1	2.7	30.0	0.0	0.0	0.0
7	85.5	62.5	74.0				589	527	434	285	147	101	0	-7777	1	6	0.1	5.8	31.0	0.0	0.0	0.0
8	83.3	60.3	71.8				520	459	368	224	104	70	-7777	1	2	13	0.3	4.3	31.0	0.0	0.0	0.0
9	76.3	50.0	63.2				264	215	150	69	25	16	20	31	56	125	0.0	1.6	29.9	0.0	0.1	0.0
10	63.7	37.7	50.7				66	47	27	8	2	1	199	243	316	451	0.0	0.0	27.0	0.0	8.9	0.0
11	47.0	24.9	36.0				2	1	-7777	-7777	0	0	574	633	722	871	0.0	0.0	11.0	4.2	23.7	0.0
12	33.4	13.3	23.4				-7777	0	0	0	0	0	980	1042	1136	1291	0.0	0.0	2.8	14.1	30.4	3.9
Summary	59.9	36.7	48.3	9999	9999	9999	2118	1811	1385	795	357	234	4524	4948	5620	6851	0.5	15.2	240.7	48.1	155.3	17.0

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

Station: **STANTON 7 NE, NE US**

GHCND:USC00258117
 Elev: 1581 ft. Lat: 42.041° N Lon: 97.175° 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	0.62	@	@	@	@			
2	0.67	@	@	@	@			
3	1.83	@	@	@	@			
4	2.69	@	@	@	@			
5	4.02	@	@	@	@			
6	4.60	@	@	@	@			
7	3.36	@	@	@	@			
8	3.53	@	@	@	@			
9	2.73	@	@	@	@			
10	2.16	@	@	@	@			
11	1.37	@	@	@	@			
12	0.78	@	@	@	@			
Summary	28.36	9999	9999	9999	9999	9999	9999	9999

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Station: **STANTON 7 NE, NE US**

GHCND:USC00258117
Elev: 1581 ft. Lat: 42.041° N Lon: 97.175° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	12	75	277	615	888	1054	985	694	347	72	5
45	3	3	36	169	462	738	899	830	545	226	33	-7777
50	1	-7777	15	89	319	588	743	675	399	132	10	-7777
55	-7777	-7777	4	40	194	439	589	520	264	66	2	-7777
60	0	0	-7777	14	97	295	434	368	150	27	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	15	67	186	367	580	713	656	435	228	55	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	20	95	372	987	1875	2929	3914	4608	4955	5027	5032
45	3	6	42	211	673	1411	2310	3140	3685	3911	3944	-7777
50	1	-7777	16	105	424	1012	1755	2430	2829	2961	2971	-7777
55	-7777	-7777	4	44	238	677	1266	1786	2050	2116	2118	-7777
60	0	0	-7777	14	111	406	840	1208	1358	1385	-7777	1385
Growing Degree Units for Corn (Monthly)												
50/86	11	26	93	279	646	1226	1939	2595	3030	3258	3313	3320

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: **HYANNIS, NE US**

GHCND:USC00254100
 Elev: 3770 ft. Lat: 42.000° N Lon: 101.750° 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	14.4	25.7	5.2	4.8	4.8	0	0	0	0	0	0	907	969	1062	1217	0.0	0.0	5.1	9.6	29.9	4.3
2	39.1	16.8	27.9	6.1	4.9	5.3	-7777	-7777	0	0	0	0	757	813	897	1037	0.0	0.0	7.8	7.9	25.9	3.9
3	47.7	23.4	35.6	4.5	3.5	3.8	1	1	-7777	-7777	0	0	604	666	758	913	0.0	0.0	14.4	4.5	25.1	1.0
4	57.7	31.8	44.7	4.8	2.8	3.4	27	19	10	2	-7777	-7777	335	386	467	610	0.0	0.1	21.6	0.8	15.4	0.0
5	68.0	43.3	55.6	3.5	2.5	2.8	121	88	50	13	1	-7777	100	130	185	303	0.0	0.1	29.1	0.0	2.7	0.0
6	78.2	52.7	65.4	3.4	2.6	2.8	322	268	193	92	33	19	9	15	30	78	0.1	1.8	30.0	0.0	0.1	0.0
7	84.7	59.1	71.9	2.3	2.4	2.2	523	462	370	225	105	70	-7777	-7777	2	11	0.5	7.5	31.0	0.0	0.0	0.0
8	83.1	56.7	69.9	2.3	2.6	2.3	463	402	312	173	68	39	1	3	6	22	0.0	4.9	31.0	0.0	0.0	0.0
9	74.2	46.5	60.3	4.1	2.3	3.0	214	172	117	50	14	7	54	71	106	190	0.0	1.9	28.8	0.1	2.0	0.0
10	60.4	34.0	47.2	4.0	2.1	2.7	25	14	5	1	-7777	0	267	318	402	553	0.0	0.1	25.1	0.5	12.1	0.1
11	46.5	22.6	34.5	6.3	3.5	4.8	1	-7777	-7777	0	0	0	615	674	763	913	0.0	0.0	12.4	4.6	24.8	1.2
12	37.2	14.5	25.8	6.1	4.5	5.2	0	0	0	0	0	0	903	965	1058	1213	0.0	0.0	6.4	10.3	29.9	3.6
Summary	59.5	34.7	47.0	4.4	3.2	3.6	1697	1426	1057	556	221	135	4552	5010	5736	7060	0.6	16.4	242.7	38.3	167.9	14.1

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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: **HYANNIS, NE US**

GHCND:USC00254100

Elev: 3770 ft. Lat: 42.000° N Lon: 101.750° 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	3.0	1.0	0.0	0.0	0.16	0.34	0.50
2	0.43	4.0	1.4	0.1	0.0	0.18	0.31	0.55
3	1.06	6.9	2.9	0.5	0.1	0.70	0.92	1.46
4	1.81	7.3	4.4	0.7	0.1	1.19	1.77	2.52
5	3.04	10.4	6.3	2.1	0.8	2.03	2.85	3.66
6	3.20	9.8	5.9	1.8	0.6	1.71	2.91	4.22
7	3.35	9.4	6.1	2.1	0.7	2.37	3.15	4.13
8	2.24	7.5	4.5	1.4	0.6	1.65	2.09	2.78
9	1.83	6.8	4.1	1.1	0.3	1.19	1.85	2.42
10	1.34	5.3	3.3	1.0	0.3	0.78	1.15	1.84
11	0.66	4.7	1.8	0.3	0.1	0.09	0.50	0.93
12	0.39	3.9	1.5	0.0	0.0	0.15	0.33	0.58
Summary	19.70	79.0	43.2	11.1	3.6	12.20	18.17	25.59

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Station: **HYANNIS, NE US**

GHCND:USC00254100
Elev: 3770 ft. Lat: 42.000° N Lon: 101.750° 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	1.9	1.7	0.6	0.2	0.0	14.4	8.7	3.9	0.5	0.0	1.7	6.0
2	3.9	2.0	1.7	0.4	0.1	0.0	8.4	4.9	2.7	0.2	1.0	3.0	5.5
3	5.1	2.1	1.7	0.7	0.2	0.0	5.1	2.6	0.9	0.0	2.0	5.0	7.7
4	5.1	1.3	1.3	0.7	0.4	0.1	1.5	0.8	0.4	0.1	0.0	3.7	8.0
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	0.6	0.2	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
10	1.0	0.4	0.4	0.1	0.1	0.0	0.5	0.1	0.1	0.0	0.0	0.0	1.0
11	6.1	2.4	2.3	0.8	0.3	0.1	6.3	3.6	1.5	0.3	3.0	4.0	9.4
12	4.7	2.7	2.2	0.6	0.1	0.0	14.3	7.2	4.6	0.2	3.4	5.0	6.0
Summary	29.0	13.0	11.5	4.0	1.5	0.2	50.8	28.0	14.2	1.3	9.4	22.4	43.6

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Federal Building
151 Patton Avenue
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www.ncdc.noaa.gov

Station: **HYANNIS, NE US**

GHCND:USC00254100
Elev: 3770 ft. Lat: 42.000° N Lon: 101.750° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	22	71	204	487	763	988	926	614	266	64	11
45	2	5	27	120	345	614	833	771	472	157	27	1
50	-7777	-7777	8	61	221	465	678	617	336	75	8	-7777
55	0	-7777	1	27	121	322	523	463	214	25	1	0
60	0	0	-7777	10	50	193	370	312	117	5	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	15	25	71	152	296	478	646	603	388	186	59	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	33	104	308	795	1558	2546	3472	4086	4352	4416	4427
45	2	7	34	154	499	1113	1946	2717	3189	3346	3373	3374
50	-7777	-7777	8	69	290	755	1433	2050	2386	2461	2469	-7777
55	0	-7777	1	28	149	471	994	1457	1671	1696	1697	1697
60	0	0	-7777	10	60	253	623	935	1052	1057	-7777	1057
Growing Degree Units for Corn (Monthly)												
50/86	15	40	111	263	559	1037	1683	2286	2674	2860	2919	2937

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: **ORLEANS 2 W, NE US**

GHCND:USC00256365

Elev: 1959 ft. Lat: 40.131° N Lon: 99.456° 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	0.51	3.4	1.5	0.3	0.0	0.18	0.32	0.96
2	0.68	3.4	1.8	0.3	0.1	0.17	0.54	1.02
3	1.70	5.7	3.6	1.1	0.4	0.73	1.62	2.34
4	2.07	6.3	4.6	1.6	0.3	1.28	2.12	2.64
5	3.95	9.7	7.1	2.9	1.0	2.38	3.82	5.07
6	3.36	7.9	6.0	2.4	0.8	1.92	2.94	4.72
7	3.70	7.4	6.0	2.5	1.2	2.18	2.70	5.19
8	3.17	6.5	5.0	2.0	0.8	1.32	2.35	4.17
9	1.87	5.1	3.6	1.3	0.3	1.13	1.72	2.43
10	1.87	5.0	3.6	1.4	0.6	0.60	1.50	2.47
11	0.99	3.6	2.4	0.6	0.2	0.40	0.91	1.48
12	0.70	3.1	2.0	0.3	0.1	0.13	0.47	1.05
Summary	24.57	67.1	47.2	16.7	5.8	12.42	21.01	33.54

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 Asheville, North Carolina 28801
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Station: **ORLEANS 2 W, NE US**

GHCND:USC00256365
 Elev: 1959 ft. Lat: 40.131° N Lon: 99.456° 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	2.8	2.5	0.5	0.3	0.0	10.7	4.5	2.6	0.8	2.0	4.4	7.0
2	6.1	2.2	1.9	0.8	0.3	-7777	10.2	5.9	2.9	1.0	2.0	6.0	8.0
3	3.4	1.5	1.3	0.6	0.2	-7777	2.8	1.4	0.6	0.1	0.0	2.0	4.0
4	1.1	0.6	0.6	0.1	0.0	0.0	0.5	0.2	-7777	0.0	0.0	0.0	1.7
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	0.2	-7777	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.2	0.2	0.1	0.1	-7777	0.4	0.2	0.1	0.1	0.0	0.0	0.0
11	3.2	1.2	1.1	0.4	0.2	-7777	1.7	0.9	0.5	0.0	0.0	2.0	5.0
12	4.6	2.4	2.1	0.5	0.1	-7777	8.3	4.2	1.8	0.6	2.0	4.0	6.0
Summary	24.9	10.9	9.7	3.0	1.2	0.0	34.6	17.3	8.5	2.6	6.0	18.4	31.7

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

Station: **HOWELLS, NE US**

GHCND:USC00254035

Elev: 1519 ft. Lat: 41.718° N Lon: 97.003° 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	30.9	11.7	21.3	6.5	5.0	5.6	0	0	0	0	0	0	1045	1107	1200	1355	0.0	0.0	3.0	16.3	30.5	5.8
2	35.8	14.4	25.1	6.8	5.9	6.1	-7777	-7777	0	0	0	0	837	893	977	1117	0.0	0.0	5.4	11.3	26.7	2.9
3	46.9	24.6	35.7	5.4	3.5	4.1	5	2	-7777	-7777	0	0	601	661	752	907	0.0	0.0	12.8	4.0	24.1	0.7
4	60.0	35.9	48.0	5.1	3.2	3.8	40	27	14	4	1	1	251	299	376	516	0.0	0.2	23.6	0.3	10.2	0.0
5	71.0	48.2	59.6	3.5	3.4	3.2	193	152	102	45	15	9	51	72	114	212	0.0	0.9	30.5	0.0	0.5	0.0
6	80.5	58.3	69.4	3.5	2.8	2.9	435	377	294	169	74	47	3	5	13	37	0.0	2.8	30.0	0.0	0.0	0.0
7	84.5	62.6	73.5	2.6	2.2	2.3	575	513	421	272	138	95	-7777	-7777	1	8	0.0	6.1	31.0	0.0	0.0	0.0
8	82.4	60.5	71.5	3.3	3.1	3.0	510	448	357	213	98	65	-7777	-7777	3	13	0.1	3.7	31.0	0.0	0.0	0.0
9	74.6	50.4	62.5	3.5	2.7	2.7	254	207	143	66	22	12	29	42	68	142	0.0	1.1	29.7	0.0	0.3	0.0
10	62.3	37.7	50.0	3.9	2.7	2.8	60	43	24	8	2	1	215	260	334	473	0.0	0.3	26.1	0.1	8.8	0.0
11	46.2	25.4	35.8	6.1	4.2	5.0	4	2	1	-7777	0	0	580	638	727	876	0.0	0.0	11.5	4.5	22.8	0.1
12	32.5	14.7	23.6	6.6	5.6	6.0	0	0	0	0	0	0	973	1035	1128	1283	0.0	0.0	3.0	14.4	30.0	3.3
Summary	59.0	37.0	48.0	4.7	3.7	4.0	2076	1771	1356	777	350	230	4585	5012	5693	6939	0.1	15.1	237.6	50.9	153.9	12.8

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Station: **HOWELLS, NE US**

GHCND:USC00254035

Elev: 1519 ft. Lat: 41.718° N Lon: 97.003° 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	0.46	3.9	1.3	0.2	0.0	0.18	0.43	0.66
2	0.65	4.1	1.8	0.4	0.1	0.34	0.52	0.86
3	1.88	6.5	4.2	1.0	0.3	0.76	1.41	2.76
4	3.11	8.2	5.6	2.0	0.8	1.70	2.62	4.31
5	4.28	10.7	7.9	2.9	1.0	2.76	3.83	5.80
6	4.87	9.5	6.9	2.9	1.4	2.59	3.97	6.24
7	3.38	8.0	6.0	2.4	0.9	1.89	3.27	4.28
8	3.46	7.7	5.2	2.2	0.9	1.47	3.41	4.59
9	2.87	7.0	4.7	1.6	0.8	1.58	2.83	3.82
10	2.24	6.5	4.3	1.7	0.6	0.91	1.72	3.82
11	1.25	4.9	2.4	0.8	0.2	0.45	0.92	2.07
12	0.72	4.7	2.0	0.3	0.0	0.30	0.46	0.85
Summary	29.17	81.7	52.3	18.4	7.0	14.93	25.39	40.06

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Station: **HOWELLS, NE US**

GHCND:USC00254035
 Elev: 1519 ft. Lat: 41.718° N Lon: 97.003° 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	3.0	1.5	0.7	0.2	0.0	14.5	8.1	4.6	1.1	2.2	3.6	8.3
2	5.4	2.9	1.6	0.7	0.3	-7777	11.0	6.3	4.2	0.8	1.2	5.7	7.3
3	4.6	1.9	1.1	0.6	0.3	-7777	4.2	2.4	1.2	0.2	0.0	1.3	7.8
4	1.6	0.6	0.4	0.2	0.1	0.0	0.8	0.3	0.2	-7777	0.0	0.0	1.2
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	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.3	0.2	0.1	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
11	3.5	1.8	1.1	0.3	0.2	0.1	2.4	0.7	0.5	0.3	0.1	1.0	4.1
12	4.3	2.9	1.6	0.7	0.3	0.0	9.2	5.8	4.4	0.9	0.9	4.0	6.0
Summary	25.1	13.4	7.5	3.3	1.4	0.1	42.3	23.6	15.1	3.3	4.4	15.6	34.7

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 -4444: year-round risk of frost-freeze
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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: **HOWELLS, NE US**

GHCND:USC00254035

Elev: 1519 ft. Lat: 41.718° N Lon: 97.003° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	14	79	277	608	882	1040	975	675	335	79	5
45	1	4	37	170	456	732	885	820	527	216	39	1
50	0	1	15	91	314	582	730	665	383	122	16	0
55	0	-7777	5	40	193	435	575	510	254	60	4	0
60	0	0	-7777	14	102	294	421	357	143	24	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	17	65	177	358	574	703	648	416	215	59	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	98	375	983	1865	2905	3880	4555	4890	4969	4974
45	1	5	42	212	668	1400	2285	3105	3632	3848	3887	3888
50	0	1	16	107	421	1003	1733	2398	2781	2903	2919	2919
55	0	-7777	5	45	238	673	1248	1758	2012	2072	2076	2076
60	0	0	-7777	14	116	410	831	1188	1331	1355	1356	1356
Growing Degree Units for Corn (Monthly)												
50/86	8	25	90	267	625	1199	1902	2550	2966	3181	3240	3247

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

Station: PAWNEE CITY, NE US

GHCND:USC00256570
 Elev: 1240 ft. Lat: 40.122° N Lon: 96.156° 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	36.4	14.7	25.5	6.4	5.2	5.7	-7777	-7777	-7777	0	0	0	913	975	1068	1223	0.0	0.0	5.0	11.7	29.6	4.1
2	41.8	18.4	30.1	6.5	5.4	5.7	1	-7777	-7777	-7777	0	0	698	753	837	977	0.0	0.0	8.2	7.4	24.8	2.5
3	52.9	28.2	40.6	4.9	3.8	3.9	16	10	5	1	-7777	-7777	464	520	608	759	0.0	0.0	18.2	2.0	20.7	0.3
4	64.2	39.3	51.8	4.4	3.4	3.7	80	59	36	13	4	2	177	217	283	411	0.0	0.4	26.4	-7777	7.2	0.0
5	74.4	51.8	63.1	3.1	3.3	2.9	273	223	157	73	24	13	22	34	61	132	0.0	0.6	30.9	0.0	0.4	0.0
6	83.7	61.3	72.5	3.3	2.7	2.8	525	466	378	239	120	84	-7777	1	3	14	0.2	5.9	30.0	0.0	0.0	0.0
7	88.8	66.3	77.5	3.1	2.2	2.4	699	637	544	390	243	189	0	0	0	1	1.8	13.4	31.0	0.0	0.0	0.0
8	87.5	63.6	75.6	3.7	2.7	3.0	637	575	483	332	194	148	-7777	-7777	1	5	1.6	11.4	31.0	0.0	0.0	0.0
9	79.1	53.5	66.3	3.7	2.8	3.0	353	301	229	129	58	39	14	22	40	90	0.1	3.6	29.9	0.0	0.2	0.0
10	67.0	41.4	54.2	3.7	2.4	2.6	106	79	48	17	5	2	131	166	228	351	0.0	0.1	28.7	0.1	5.5	0.0
11	52.1	28.7	40.4	5.9	4.3	4.8	12	7	3	1	-7777	-7777	450	505	591	739	0.0	0.0	17.4	2.1	19.4	0.0
12	38.5	17.8	28.2	6.7	6.3	6.3	-7777	-7777	-7777	0	0	0	832	894	987	1142	0.0	0.0	6.6	9.3	28.5	2.7
Summary	63.9	40.4	52.2	4.6	3.7	3.9	2702	2357	1883	1195	648	477	3701	4087	4707	5844	3.7	35.4	263.3	32.6	136.3	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: **PAWNEE CITY, NE US**

GHCND:USC00256570

Elev: 1240 ft. Lat: 40.122° N Lon: 96.156° 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	0.79	3.4	2.2	0.3	-7777	0.39	0.81	1.06
2	1.03	4.1	2.6	0.7	0.1	0.55	0.83	1.45
3	2.60	6.4	4.2	1.7	0.6	1.11	2.16	3.85
4	3.08	7.2	5.3	2.1	0.8	2.03	2.68	4.04
5	4.38	8.7	6.8	3.1	1.3	2.25	3.80	6.29
6	4.54	7.8	6.0	3.2	1.7	2.69	3.89	6.43
7	3.54	7.6	5.5	2.7	1.1	2.60	3.16	4.61
8	3.90	7.3	5.6	2.7	1.3	2.25	3.62	5.20
9	3.60	6.4	5.0	2.3	1.1	1.99	2.76	5.30
10	2.42	5.5	4.1	1.8	0.5	0.94	2.07	3.58
11	1.66	4.0	2.6	1.0	0.3	0.55	1.33	2.87
12	0.93	4.1	2.6	0.6	0.2	0.39	0.70	1.24
Summary	32.47	72.5	52.5	22.2	9.0	17.74	27.81	45.92

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 Asheville, North Carolina 28801
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Station: **PAWNEE CITY, NE US**

GHCND:USC00256570
 Elev: 1240 ft. Lat: 40.122° N Lon: 96.156° 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	2.7	2.0	0.8	0.3	0.0	7.8	4.3	2.8	0.7	1.1	3.4	7.3
2	4.7	2.5	1.6	0.7	0.3	0.0	5.5	3.3	1.9	0.4	1.4	5.1	7.0
3	2.8	1.6	0.9	0.3	0.1	-7777	2.4	1.0	0.7	0.3	0.0	1.8	4.5
4	0.8	0.3	0.1	0.1	-7777	0.0	0.2	0.2	0.1	-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	0.3	0.1	0.1	-7777	-7777	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	1.1	0.8	0.5	0.3	-7777	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.9
12	5.4	2.8	1.7	0.6	0.3	-7777	6.0	3.9	2.2	0.6	0.3	2.0	6.6
Summary	19.6	10.8	6.9	2.8	1.0	0.0	22.5	12.8	7.7	2.0	2.8	12.3	26.3

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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: **PAWNEE CITY, NE US**

GHCND:USC00256570

Elev: 1240 ft. Lat: 40.122° N Lon: 96.156° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	36	144	370	716	975	1164	1102	789	450	136	18
45	3	13	77	250	562	825	1009	947	640	314	76	5
50	-7777	3	37	151	411	675	854	792	493	197	35	1
55	-7777	1	16	80	273	525	699	637	353	106	12	-7777
60	-7777	-7777	5	36	157	378	544	483	229	48	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	37	112	233	441	651	786	733	507	288	100	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	48	192	562	1278	2253	3417	4519	5308	5758	5894	5912
45	3	16	93	343	905	1730	2739	3686	4326	4640	4716	4721
50	-7777	3	40	191	602	1277	2131	2923	3416	3613	3648	3649
55	-7777	1	17	97	370	895	1594	2231	2584	2690	2702	-7777
60	-7777	-7777	5	41	198	576	1120	1603	1832	1880	1883	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	53	165	398	839	1490	2276	3009	3516	3804	3904	3922

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: **WOLBACH, NE US**

GHCND:USC00259382

Elev: 1870 ft. Lat: 41.397° N Lon: 98.392° 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	0.50	3.6	1.1	0.2	0.1	0.16	0.36	0.54
2	0.58	4.9	1.8	0.2	0.1	0.27	0.52	0.81
3	1.54	5.3	2.9	0.7	0.3	0.61	1.21	2.24
4	2.44	7.3	5.7	1.9	0.7	1.28	2.12	3.60
5	4.27	9.3	7.9	3.1	1.3	2.73	3.97	5.57
6	4.08	9.4	7.7	2.9	1.1	2.74	3.49	5.43
7	3.67	6.7	5.6	2.7	1.2	1.98	2.80	4.64
8	2.79	6.0	5.2	1.8	0.7	1.70	2.23	3.68
9	2.81	5.1	4.1	1.6	0.7	1.48	2.77	3.55
10	2.14	5.4	4.3	1.4	0.6	1.16	1.92	2.96
11	1.19	3.2	1.8	0.6	0.3	0.31	0.98	1.69
12	0.63	3.7	1.7	0.2	0.1	0.13	0.34	0.97
Summary	26.64	69.9	49.8	17.3	7.2	14.55	22.71	35.68

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 Asheville, North Carolina 28801
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Station: **WOLBACH, NE US**

GHCND:USC00259382
 Elev: 1870 ft. Lat: 41.397° N Lon: 98.392° 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	3.0	1.6	0.8	0.3	0.0	@	@	@	@	2.9	6.8	8.2
2	6.1	3.6	2.0	0.8	0.2	0.0	@	@	@	@	2.7	5.7	8.3
3	2.6	0.9	0.7	0.3	0.3	0.1	@	@	@	@	0.0	0.2	2.2
4	0.7	0.3	0.2	0.2	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	0.4	0.1	0.1	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	1.1	0.7	0.4	0.2	0.1	0.0	@	@	@	@	0.0	0.0	1.0
12	4.2	2.5	1.3	0.4	0.1	0.0	@	@	@	@	0.0	2.1	8.9
Summary	21.2	11.1	6.3	2.8	1.2	0.1	9999	9999	9999	9999	5.6	14.8	28.6

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

Station: **SHELBY 3 NE, NE US**

GHCND:USC00257751

Elev: 1634 ft. Lat: 41.218° N Lon: 97.388° 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	0.53	4.8	1.7	0.1	0.0	0.30	0.47	0.79
2	0.63	5.3	2.3	0.1	0.1	0.43	0.63	0.74
3	1.98	7.5	4.0	0.7	0.1	0.84	1.94	2.76
4	2.65	8.6	6.1	1.9	0.7	1.35	2.27	3.89
5	4.13	10.8	7.4	3.1	1.1	2.86	3.69	5.10
6	4.40	9.6	6.8	2.6	1.3	2.64	4.18	5.81
7	2.70	6.6	5.0	1.6	0.6	1.97	2.60	3.31
8	2.98	7.4	5.5	2.1	0.9	1.46	2.61	4.38
9	2.66	6.8	4.3	1.2	0.3	1.31	2.11	3.74
10	2.03	5.5	3.9	1.4	0.7	0.83	1.42	3.22
11	1.33	3.9	2.4	1.1	0.3	0.66	1.12	1.78
12	0.84	5.3	2.3	0.4	0.0	0.26	0.70	1.06
Summary	26.86	82.1	51.7	16.3	6.1	14.91	23.74	36.58

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

Station: **SHELBY 3 NE, NE US**

GHCND:USC00257751
 Elev: 1634 ft. Lat: 41.218° N Lon: 97.388° 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	7.5	3.9	2.3	0.9	0.5	0.0	16.6	10.4	5.8	2.4	4.5	6.2	11.3
2	7.9	3.8	2.2	1.0	0.3	0.0	13.8	10.1	6.5	1.7	6.0	7.7	10.4
3	5.1	1.8	1.5	0.5	0.4	0.1	6.0	3.2	2.0	0.4	0.0	3.0	8.5
4	1.5	0.6	0.5	0.3	0.2	0.0	1.2	0.6	0.3	0.1	0.0	0.0	2.4
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	1.5	0.4	0.3	0.2	0.2	0.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0
11	1.1	0.9	0.6	0.1	0.0	0.0	1.7	0.1	0.1	0.0	0.0	0.4	2.0
12	6.3	3.7	2.3	0.7	0.3	0.0	11.2	5.9	4.8	1.2	1.3	2.6	12.0
Summary	30.9	15.1	9.7	3.7	1.9	0.1	51.3	30.8	19.8	5.8	11.8	19.9	46.6

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
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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: **GOTHENBURG, NE US**

GHCND:USC00253365
Elev: 2585 ft. Lat: 40.939° N Lon: 100.151° 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	14.9	26.6	6.1	4.4	5.1	0	0	0	0	0	0	879	941	1034	1189	0.0	0.0	6.1	9.9	30.3	3.1
2	42.3	18.0	30.2	6.8	4.9	5.6	-7777	-7777	-7777	0	0	0	696	752	836	976	0.0	0.0	8.3	6.7	26.4	2.2
3	52.5	26.4	39.5	4.5	3.9	3.8	6	3	1	-7777	0	0	488	547	638	792	0.0	0.0	18.1	2.2	22.8	0.4
4	63.1	35.8	49.5	4.6	3.1	3.5	51	37	21	6	1	-7777	218	263	338	473	0.0	0.3	25.2	0.2	9.9	0.0
5	72.3	47.9	60.1	3.7	2.6	3.0	201	160	106	43	11	6	43	64	103	195	-7777	0.9	30.8	0.0	0.9	0.0
6	82.4	57.3	69.9	3.9	2.8	3.1	448	390	305	178	83	56	2	4	10	33	0.4	6.2	30.0	0.0	0.0	0.0
7	88.0	62.8	75.4	3.1	2.1	2.4	632	570	477	325	184	137	0	0	-7777	2	1.6	12.6	31.0	0.0	0.0	0.0
8	85.8	60.9	73.4	3.4	2.4	2.8	569	507	416	268	140	98	-7777	1	2	9	0.8	9.2	31.0	0.0	0.0	0.0
9	77.0	50.5	63.7	3.6	2.4	2.7	284	235	170	84	32	19	22	33	57	122	-7777	3.0	29.6	0.0	0.6	0.0
10	64.0	37.6	50.8	3.7	2.4	2.5	54	36	18	4	1	-7777	184	228	303	445	0.0	0.1	27.5	0.3	7.6	0.0
11	49.6	25.0	37.3	5.9	3.3	4.3	2	1	-7777	-7777	0	0	533	592	681	831	0.0	0.0	14.9	3.1	23.5	0.4
12	38.8	15.4	27.1	6.2	4.8	5.4	0	0	0	0	0	0	865	927	1020	1175	0.0	0.0	6.0	8.9	30.6	2.9
Summary	62.9	37.7	50.3	4.6	3.3	3.7	2247	1939	1514	908	452	316	3930	4352	5022	6242	2.8	32.3	258.5	31.3	152.6	9.0

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-4444: year-round risk of frost-freeze

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Asheville, North Carolina 28801
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Station: **GOTHENBURG, NE US**

GHCND:USC00253365

Elev: 2585 ft. Lat: 40.939° N Lon: 100.151° 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	0.33	3.9	1.0	0.1	0.0	0.17	0.29	0.53
2	0.58	4.4	1.7	0.2	0.1	0.11	0.43	1.09
3	1.19	6.3	3.1	0.6	0.2	0.56	0.97	1.72
4	2.42	7.8	4.4	1.8	0.7	1.43	2.06	3.32
5	3.85	10.8	6.8	2.3	1.0	2.19	3.19	4.81
6	4.22	9.3	6.6	2.8	1.2	2.45	4.01	5.41
7	3.35	8.3	6.2	2.1	1.0	1.84	3.26	4.46
8	3.05	7.6	4.9	2.0	1.1	1.97	2.75	4.15
9	1.74	6.1	3.7	1.1	0.3	0.84	1.57	2.34
10	1.79	6.3	3.6	1.3	0.4	0.60	1.46	2.44
11	0.74	4.5	1.8	0.4	-7777	0.17	0.66	1.15
12	0.45	3.3	1.3	0.2	-7777	0.02	0.28	0.61
Summary	23.71	78.6	45.1	14.9	6.0	12.35	20.93	32.03

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Station: **GOTHENBURG, NE US**

GHCND:USC00253365
Elev: 2585 ft. Lat: 40.939° N Lon: 100.151° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	27	120	308	623	895	1097	1033	713	353	85	9
45	2	8	57	194	470	745	942	879	565	226	38	1
50	-7777	2	21	107	325	596	787	724	421	123	12	-7777
55	0	-7777	6	51	201	448	632	569	284	54	2	0
60	0	-7777	1	21	106	305	477	416	170	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	22	37	110	215	377	574	723	679	447	234	78	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	39	159	467	1090	1985	3082	4115	4828	5181	5266	5275
45	2	10	67	261	731	1476	2418	3297	3862	4088	4126	4127
50	-7777	2	23	130	455	1051	1838	2562	2983	3106	3118	-7777
55	0	-7777	6	57	258	706	1338	1907	2191	2245	2247	2247
60	0	-7777	1	22	128	433	910	1326	1496	1514	-7777	1514
Growing Degree Units for Corn (Monthly)												
50/86	22	59	169	384	761	1335	2058	2737	3184	3418	3496	3515

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: **HYANNIS 5 N, NE US**

GHCND:USC00254101
Elev: 3852 ft. Lat: 42.054° N Lon: 101.756° 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	37.5	12.1	24.8				0	0	0	0	0	0	936	998	1091	1246	0.0	0.0	5.6	9.9	31.0	4.2
2	40.2	14.7	27.5				0	0	0	0	0	0	771	827	911	1051	0.0	0.0	6.1	7.9	27.5	2.5
3	48.8	23.1	36.0				2	1	-7777	0	0	0	592	653	745	900	0.0	0.0	15.6	3.8	26.8	0.8
4	58.8	31.4	45.1				18	10	4	-7777	-7777	-7777	315	367	450	597	0.0	0.0	22.5	0.7	15.8	0.0
5	69.1	42.3	55.7				119	88	52	16	3	2	97	128	185	304	0.0	0.8	30.0	0.0	3.1	0.0
6	78.7	51.7	65.2				316	263	188	90	33	19	10	17	32	84	0.2	2.8	29.8	0.0	0.0	0.0
7	86.4	57.6	72.0				527	466	374	229	105	67	-7777	1	2	12	0.7	9.3	31.0	0.0	0.0	0.0
8	85.1	55.6	70.4				477	417	328	190	82	52	2	3	8	24	0.6	8.1	31.0	0.0	0.0	0.0
9	75.6	44.5	60.1				201	160	107	43	10	4	50	68	105	191	0.0	2.2	29.5	0.0	1.8	0.0
10	62.7	32.3	47.5				36	23	11	3	1	-7777	268	318	399	546	0.0	0.2	26.1	0.5	13.8	0.2
11	47.9	21.1	34.5				1	1	-7777	0	0	0	616	676	765	915	0.0	0.0	14.0	5.1	25.9	1.1
12	36.7	12.5	24.6				0	0	0	0	0	0	942	1004	1097	1252	0.0	0.0	3.6	10.2	30.7	3.6
Summary	60.6	33.2	47.0	9999	9999	9999	1697	1429	1064	571	234	144	4599	5060	5790	7122	1.5	23.4	244.8	38.1	176.4	12.4

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Station: **HYANNIS 5 N, NE US**

GHCND:USC00254101
Elev: 3852 ft. Lat: 42.054° N Lon: 101.756° 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	0.34	@	@	@	@			
2	0.43	@	@	@	@			
3	1.03	@	@	@	@			
4	2.34	@	@	@	@			
5	2.98	@	@	@	@			
6	3.61	@	@	@	@			
7	2.84	@	@	@	@			
8	1.97	@	@	@	@			
9	1.69	@	@	@	@			
10	1.38	@	@	@	@			
11	0.51	@	@	@	@			
12	0.46	@	@	@	@			
Summary	19.58	9999	9999	9999	9999	9999	9999	9999

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Station: **HYANNIS 5 N, NE US**

GHCND:USC00254101
Elev: 3852 ft. Lat: 42.054° N Lon: 101.756° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	11	76	207	489	756	991	940	603	278	70	5
45	-7777	3	31	115	344	607	837	785	458	169	29	1
50	0	-7777	10	53	218	459	682	631	322	86	7	-7777
55	0	0	2	18	119	316	527	477	201	36	1	0
60	0	0	-7777	4	52	188	374	328	107	11	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	13	22	79	161	304	470	637	599	391	218	79	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	15	91	298	787	1543	2534	3474	4077	4355	4425	4430
45	-7777	3	34	149	493	1100	1937	2722	3180	3349	3378	3379
50	0	-7777	10	63	281	740	1422	2053	2375	2461	2468	-7777
55	0	0	2	20	139	455	982	1459	1660	1696	1697	1697
60	0	0	-7777	4	56	244	618	946	1053	1064	-7777	1064
Growing Degree Units for Corn (Monthly)												
50/86	13	35	114	275	579	1049	1686	2285	2676	2894	2973	2984

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: **STAPLETON 5 W, NE US**

GHCND:USC00258133
Elev: 2989 ft. Lat: 41.458° N Lon: 100.599° 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	11.8	24.8	6.7	4.4	5.4	0	0	0	0	0	0	938	1000	1093	1248	0.0	0.0	7.0	10.7	30.9	5.2
2	41.7	14.6	28.2	6.9	5.1	5.8	-7777	-7777	0	0	0	0	752	808	892	1032	0.0	0.0	8.2	7.7	27.5	2.7
3	51.1	22.6	36.8	4.5	3.5	3.7	3	1	-7777	-7777	0	0	566	626	718	873	0.0	0.0	17.2	3.6	27.0	0.8
4	61.6	32.1	46.9	4.6	2.6	3.3	32	21	11	2	-7777	-7777	276	325	405	547	0.0	0.1	23.4	0.4	15.3	0.0
5	71.7	43.5	57.6	3.7	2.4	2.7	154	119	76	27	6	3	73	100	150	257	0.1	1.2	30.2	0.0	2.2	0.0
6	81.3	53.4	67.4	4.0	2.5	3.0	377	321	241	127	49	31	7	10	20	56	0.1	4.8	29.9	0.0	-7777	0.0
7	88.0	58.8	73.4	3.1	2.1	2.5	570	509	417	269	141	101	-7777	-7777	2	9	1.5	13.0	31.0	0.0	0.0	0.0
8	86.5	57.2	71.9	3.7	2.4	2.8	523	462	372	227	107	72	1	2	4	15	1.0	11.0	31.0	0.0	0.0	0.0
9	77.5	46.3	61.9	3.5	2.7	2.8	241	196	137	63	20	10	34	49	80	156	-7777	3.4	29.7	0.0	1.2	0.0
10	64.5	33.9	49.2	3.7	2.5	2.7	52	35	17	3	-7777	-7777	232	276	352	493	0.0	0.2	26.5	0.5	12.1	0.0
11	49.6	21.9	35.8	6.1	3.8	4.7	3	2	-7777	-7777	0	0	581	639	728	877	0.0	0.0	14.7	4.0	26.0	0.7
12	38.1	12.8	25.4	6.6	5.3	5.8	0	0	0	0	0	0	916	978	1071	1226	0.0	0.0	6.6	9.6	30.8	4.1
Summary	62.4	34.1	48.3	4.8	3.3	3.8	1955	1666	1271	718	323	217	4376	4813	5515	6789	2.7	33.7	255.4	36.5	173.0	13.5

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Station: **STAPLETON 5 W, NE US**

GHCND:USC00258133

Elev: 2989 ft. Lat: 41.458° N Lon: 100.599° 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	0.58	4.4	1.7	0.3	-7777	0.16	0.41	0.88
2	0.83	5.0	2.4	0.3	0.1	0.23	0.63	1.24
3	1.51	7.2	3.2	0.8	0.2	0.86	1.14	1.90
4	2.42	9.8	5.5	1.7	0.5	1.25	2.20	3.43
5	3.29	11.6	6.3	2.1	0.8	1.97	2.95	4.23
6	4.05	12.6	7.0	2.7	1.0	3.10	3.78	5.56
7	2.85	10.6	5.7	2.2	0.5	1.67	2.44	3.87
8	1.95	8.0	4.4	1.4	0.5	1.01	1.49	2.63
9	2.25	7.2	3.6	1.3	0.5	0.79	2.16	3.32
10	1.72	7.0	3.2	1.0	0.5	0.58	1.17	2.28
11	0.96	4.5	2.2	0.4	0.1	0.27	0.84	1.51
12	0.56	4.1	1.5	0.2	-7777	0.15	0.40	0.72
Summary	22.97	92.0	46.7	14.4	4.7	12.04	19.61	31.57

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-4444: year-round risk of frost-freeze

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Station: **STAPLETON 5 W, NE US**

GHCND:USC00258133
Elev: 2989 ft. Lat: 41.458° N Lon: 100.599° 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	4.6	1.8	0.4	0.2	0.0	12.6	6.4	3.2	0.1	1.6	3.3	8.0
2	6.5	4.6	2.1	0.7	0.1	0.1	9.6	4.3	2.1	0.9	1.8	4.5	8.5
3	5.4	4.4	1.9	0.6	0.2	0.0	5.3	2.3	1.0	0.0	1.2	4.7	8.7
4	5.6	2.2	1.3	0.8	0.3	0.1	2.3	1.5	0.7	0.1	0.3	2.3	11.5
5	-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
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	0.1	0.1	0.1	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	2.4	1.0	0.7	0.4	0.1	-7777	1.1	1.0	0.4	-7777	0.0	0.0	2.0
11	5.1	3.2	1.7	0.5	0.2	0.0	5.4	2.4	1.3	0.0	1.3	3.3	9.0
12	5.1	4.2	1.4	0.5	0.2	0.0	10.5	4.5	2.2	0.1	2.0	3.6	6.1
Summary	35.1	24.4	11.0	3.9	1.3	0.2	46.8	22.4	10.9	1.2	8.2	21.7	53.8

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-4444: year-round risk of frost-freeze

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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: **STAPLETON 5 W, NE US**

GHCND:USC00258133
Elev: 2989 ft. Lat: 41.458° N Lon: 100.599° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	18	90	251	547	820	1035	987	658	320	81	10
45	1	5	40	151	398	671	880	832	511	205	38	2
50	-7777	1	14	77	263	522	725	677	369	114	14	-7777
55	0	-7777	3	32	154	377	570	523	241	52	3	0
60	0	0	-7777	11	76	241	417	372	137	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	34	102	198	346	516	663	630	422	243	88	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	26	116	367	914	1734	2769	3756	4414	4734	4815	4825
45	1	6	46	197	595	1266	2146	2978	3489	3694	3732	3734
50	-7777	1	15	92	355	877	1602	2279	2648	2762	2776	-7777
55	0	-7777	3	35	189	566	1136	1659	1900	1952	1955	1955
60	0	0	-7777	11	87	328	745	1117	1254	1271	-7777	1271
Growing Degree Units for Corn (Monthly)												
50/86	21	55	157	355	701	1217	1880	2510	2932	3175	3263	3285

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: **PARKS 17 N, NE US**

GHCND:USC00256552

Elev: 3320 ft. Lat: 40.321° N Lon: 101.674° 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	0.38	1.5	1.2	0.1	0.0	0.15	0.30	0.50
2	0.50	2.3	1.8	0.3	0.1	0.18	0.41	0.74
3	1.05	3.0	2.6	0.5	0.1	0.33	0.72	1.50
4	1.71	5.8	3.8	1.6	0.2	1.03	1.63	2.44
5	2.41	6.2	3.8	0.9	0.1	1.83	2.26	3.24
6	2.96	7.5	5.7	2.2	0.7	2.29	2.75	3.64
7	3.63	6.8	5.6	1.7	0.7	2.06	3.38	4.87
8	2.71	6.4	5.0	1.9	1.0	1.13	2.44	3.53
9	1.36	4.0	2.8	1.1	0.3	0.33	1.29	2.21
10	1.26	4.2	3.4	0.9	0.3	0.13	1.02	2.26
11	0.63	2.2	1.8	0.3	0.0	0.34	0.51	0.86
12	0.42	1.5	1.2	0.2	0.1	0.06	0.36	0.58
Summary	19.02	51.4	38.7	11.7	3.6	9.86	17.07	26.37

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 1981-2010**

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

Station: **PARKS 17 N, NE US**

GHCND:USC00256552
 Elev: 3320 ft. Lat: 40.321° N Lon: 101.674° 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	1.5	1.4	0.5	0.2	0.0	@	@	@	@	1.5	3.0	4.0
2	5.4	2.4	1.9	1.0	0.5	0.0	@	@	@	@	2.1	4.7	8.0
3	4.3	1.8	1.6	0.5	0.1	0.0	@	@	@	@	1.3	4.5	7.5
4	2.6	0.9	0.9	0.4	0.2	0.0	@	@	@	@	0.0	2.0	4.4
5	0.4	0.1	0.1	0.1	0.1	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	2.6	0.6	0.6	0.5	0.3	0.0	@	@	@	@	0.0	0.0	5.0
11	3.1	1.0	0.9	0.5	0.3	0.0	@	@	@	@	1.5	2.3	5.0
12	4.7	1.8	1.5	0.5	0.4	0.0	@	@	@	@	0.5	2.5	7.0
Summary	26.4	10.1	8.9	4.0	2.1	0.0	9999	9999	9999	9999	6.9	19.0	40.9

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

Station: **HUMPHREY, NE US**

GHCND:USC00254052

Elev: 1680 ft. Lat: 41.687° N Lon: 97.477° 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	0.62	@	@	@	@			
2	0.97	@	@	@	@			
3	1.90	@	@	@	@			
4	3.12	@	@	@	@			
5	4.42	@	@	@	@			
6	4.57	@	@	@	@			
7	3.18	@	@	@	@			
8	3.46	@	@	@	@			
9	3.06	@	@	@	@			
10	2.13	@	@	@	@			
11	1.39	@	@	@	@			
12	0.74	@	@	@	@			
Summary	29.56	9999	9999	9999	9999	9999	9999	9999

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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: **FREMONT, NE US**

GHCND:USC00253050
 Elev: 1181 ft. Lat: 41.430° N Lon: 96.467° 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	33.0	12.8	22.9	6.8	5.5	6.0	0	0	0	0	0	0	995	1057	1150	1305	0.0	0.0	3.4	13.8	30.4	5.5
2	37.6	17.4	27.5	6.8	5.5	6.0	-7777	-7777	-7777	0	0	0	770	826	910	1050	0.0	0.0	5.5	9.7	25.4	2.9
3	49.7	27.0	38.3	5.4	3.6	4.2	10	6	3	-7777	-7777	-7777	526	584	674	826	0.0	0.0	15.2	3.1	21.8	0.4
4	63.3	38.4	50.8	4.4	2.9	3.5	72	53	32	12	3	1	196	237	307	436	0.0	0.4	25.3	0.1	7.3	0.0
5	73.7	49.9	61.8	3.4	3.1	3.0	241	195	135	59	19	11	30	46	79	158	0.0	1.3	30.8	0.0	0.4	0.0
6	83.1	60.0	71.6	3.0	2.5	2.6	497	438	351	215	106	73	-7777	1	4	19	0.2	4.9	30.0	0.0	0.0	0.0
7	86.8	64.5	75.7	3.0	2.3	2.5	640	578	485	332	190	140	-7777	-7777	-7777	2	0.6	10.0	31.0	0.0	0.0	0.0
8	84.6	62.2	73.4	3.3	2.7	2.9	570	509	417	270	142	100	-7777	-7777	1	10	0.3	7.0	31.0	0.0	0.0	0.0
9	77.3	52.3	64.8	3.3	2.4	2.6	313	263	194	101	41	26	19	29	50	107	-7777	2.1	29.8	0.0	0.3	0.0
10	64.7	40.0	52.4	3.6	2.7	2.7	83	59	35	12	3	2	165	204	272	404	0.0	0.3	27.8	0.1	6.8	0.0
11	48.6	27.5	38.0	6.2	4.2	4.9	7	4	1	-7777	0	0	515	572	660	809	0.0	0.0	13.9	3.0	21.2	0.2
12	34.4	16.1	25.2	6.6	5.9	6.1	-7777	-7777	0	0	0	0	922	984	1077	1232	0.0	0.0	3.4	12.2	29.4	3.2
Summary	61.4	39.0	50.2	4.7	3.6	3.9	2433	2105	1653	1001	504	353	4138	4540	5184	6358	1.1	26.0	247.1	42.0	143.0	12.2

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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: **FREMONT, NE US**

GHCND:USC00253050

Elev: 1181 ft. Lat: 41.430° N Lon: 96.467° 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	0.71	5.1	2.2	0.3	-7777	0.39	0.64	1.08
2	0.84	5.2	2.3	0.3	0.1	0.35	0.76	1.22
3	1.92	6.8	4.3	1.1	0.3	0.67	1.61	2.72
4	2.90	8.5	5.6	2.2	0.6	1.34	2.60	4.20
5	4.23	11.3	7.8	2.9	1.0	2.12	4.12	5.60
6	4.72	10.4	6.8	3.2	1.5	2.62	4.32	6.65
7	3.63	9.2	6.3	2.0	0.7	2.18	2.79	4.94
8	3.43	8.0	5.2	2.1	1.1	1.80	3.15	4.67
9	3.16	7.1	4.7	2.1	0.9	2.03	2.69	3.36
10	2.11	6.7	4.6	1.4	0.4	0.81	1.78	2.67
11	1.36	5.4	3.0	1.0	0.2	0.84	1.16	2.08
12	1.02	5.1	2.6	0.4	0.1	0.48	0.78	1.01
Summary	30.03	88.8	55.4	19.0	6.9	15.63	26.40	40.20

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 1981-2010**

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

Station: **FREMONT, NE US**

GHCND:USC00253050
 Elev: 1181 ft. Lat: 41.430° N Lon: 96.467° 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	3.5	2.3	1.0	0.3	0.0	15.4	9.9	6.0	1.2	2.5	5.8	8.3
2	7.0	3.5	2.6	0.9	0.4	0.0	12.4	7.8	4.1	0.8	2.8	7.0	9.8
3	5.7	1.9	1.5	0.7	0.4	0.1	4.7	2.6	1.6	0.5	0.5	4.3	11.0
4	1.8	0.5	0.4	0.2	0.1	-7777	0.6	0.4	0.2	0.1	0.0	0.0	1.5
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	0.6	0.3	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
11	2.5	1.4	1.0	0.4	0.1	0.0	2.5	1.1	0.5	0.4	0.0	1.0	4.0
12	7.4	3.7	2.5	1.0	0.3	-7777	11.7	7.8	4.6	1.7	3.0	5.6	10.5
Summary	31.3	14.8	10.5	4.3	1.6	0.1	47.5	29.7	17.0	4.7	8.8	23.7	45.1

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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: **FREMONT, NE US**

GHCND:USC00253050

Elev: 1181 ft. Lat: 41.430° N Lon: 96.467° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	23	115	348	676	946	1105	1035	744	398	102	7
45	1	7	60	231	522	796	950	880	595	270	52	2
50	-7777	2	27	137	374	646	795	725	450	162	22	-7777
55	0	-7777	10	72	241	497	640	570	313	83	7	-7777
60	0	-7777	3	32	135	351	485	417	194	35	1	0
Growing Degree Units for Corn (Monthly)												
50/86	10	22	88	221	412	625	747	694	471	249	71	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	28	143	491	1167	2113	3218	4253	4997	5395	5497	5504
45	1	8	68	299	821	1617	2567	3447	4042	4312	4364	4366
50	-7777	2	29	166	540	1186	1981	2706	3156	3318	3340	-7777
55	0	-7777	10	82	323	820	1460	2030	2343	2426	2433	-7777
60	0	-7777	3	35	170	521	1006	1423	1617	1652	1653	1653
Growing Degree Units for Corn (Monthly)												
50/86	10	32	120	341	753	1378	2125	2819	3290	3539	3610	3619

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: **GROSS 1 E, NE US**

GHCND:USC00253478

Elev: 1749 ft. Lat: 42.944° N Lon: 98.554° 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	0.35	@	@	@	@			
2	0.52	@	@	@	@			
3	1.53	@	@	@	@			
4	2.99	@	@	@	@			
5	3.60	@	@	@	@			
6	3.48	@	@	@	@			
7	2.81	@	@	@	@			
8	2.47	@	@	@	@			
9	2.54	@	@	@	@			
10	1.89	@	@	@	@			
11	0.74	@	@	@	@			
12	0.62	@	@	@	@			
Summary	23.54	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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: **CHAPPELL, NE US**

GHCND:USC00251602
Elev: 3711 ft. Lat: 41.094° N Lon: 102.472° 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	14.0	27.2				0	0	0	0	0	0	863	925	1018	1173	0.0	0.0	7.3	7.7	30.5	2.2
2	43.6	16.5	30.1				-7777	-7777	0	0	0	0	698	754	838	978	0.0	0.0	8.6	4.9	27.5	2.0
3	52.5	24.0	38.3				5	2	1	0	0	0	524	584	675	829	0.0	0.0	18.8	1.9	26.0	0.3
4	62.5	32.9	47.7				30	18	8	1	-7777	0	249	297	377	520	0.0	0.1	25.5	0.2	13.4	0.0
5	71.7	44.0	57.9				158	121	76	28	7	2	70	95	143	250	0.0	0.9	30.6	0.0	1.8	0.0
6	81.5	54.0	67.8				388	332	253	139	56	35	6	10	21	56	0.3	6.5	30.0	0.0	0.0	0.0
7	88.6	60.3	74.5				602	541	449	299	158	110	-7777	1	2	6	1.0	14.6	31.0	0.0	0.0	0.0
8	86.6	58.4	72.5				542	481	390	246	120	81	-7777	1	3	13	0.6	11.4	31.0	0.0	0.0	0.0
9	78.0	47.3	62.7				251	203	141	63	19	10	21	34	62	133	0.1	3.0	30.0	0.0	0.2	0.0
10	64.8	34.3	49.6				48	31	14	3	1	-7777	216	262	338	482	0.0	0.5	27.1	0.5	11.7	0.0
11	50.2	23.0	36.6				2	1	-7777	0	0	0	553	612	702	852	0.0	0.0	15.3	2.5	25.4	0.5
12	39.7	13.6	26.7				0	0	0	0	0	0	878	940	1033	1188	0.0	0.0	6.4	7.3	30.8	2.5
Summary	63.3	35.2	49.3	9999	9999	9999	2026	1730	1332	779	361	238	4078	4515	5212	6480	2.0	37.0	261.6	25.0	167.3	7.5

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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1981-2010**

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

Station: **CHAPPELL, NE US**

GHCND:USC00251602
Elev: 3711 ft. Lat: 41.094° N Lon: 102.472° 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	0.37	@	@	@	@			
2	0.40	@	@	@	@			
3	1.18	@	@	@	@			
4	2.08	@	@	@	@			
5	2.82	@	@	@	@			
6	3.16	@	@	@	@			
7	2.64	@	@	@	@			
8	2.46	@	@	@	@			
9	1.46	@	@	@	@			
10	1.34	@	@	@	@			
11	0.59	@	@	@	@			
12	0.38	@	@	@	@			
Summary	18.88	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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9999, Empty, or blank, cells indicate an average 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: **CHAPPELL, NE US**

GHCND:USC00251602
Elev: 3711 ft. Lat: 41.094° N Lon: 102.472° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	19	104	266	555	832	1067	1007	680	326	79	8
45	2	7	50	157	406	682	912	852	531	206	35	2
50	-7777	2	18	79	270	533	757	697	385	111	10	-7777
55	0	-7777	5	30	158	388	602	542	251	48	2	0
60	0	0	1	8	76	253	449	390	141	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	26	35	110	204	345	519	690	649	431	246	84	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	31	135	401	956	1788	2855	3862	4542	4868	4947	4955
45	2	9	59	216	622	1304	2216	3068	3599	3805	3840	3842
50	-7777	2	20	99	369	902	1659	2356	2741	2852	2862	-7777
55	0	-7777	5	35	193	581	1183	1725	1976	2024	2026	2026
60	0	0	1	9	85	338	787	1177	1318	1332	-7777	1332
Growing Degree Units for Corn (Monthly)												
50/86	26	61	171	375	720	1239	1929	2578	3009	3255	3339	3357

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **KILGORE 1 NE, NE US**

GHCND:USC00254432
Elev: 3041 ft. Lat: 42.950° N Lon: 100.945° 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	13.5	25.4	5.8	5.3	5.3	-7777	0	0	0	0	0	919	981	1074	1229	0.0	0.0	6.1	10.0	29.7	5.0
2	40.0	15.6	27.8	6.8	5.6	6.1	-7777	-7777	0	0	0	0	762	817	901	1042	0.0	0.0	6.4	8.1	26.8	2.8
3	49.1	22.0	35.5	5.1	4.4	4.4	3	2	1	-7777	0	0	606	667	758	913	0.0	0.0	15.1	4.0	27.5	1.0
4	59.9	33.0	46.5	4.5	3.2	3.6	27	17	7	1	-7777	-7777	284	334	414	558	0.0	0.0	22.9	0.2	12.7	0.0
5	70.2	43.9	57.1	4.3	2.8	3.3	141	107	66	23	7	4	78	105	157	270	0.0	1.5	30.2	0.0	1.6	0.0
6	80.0	53.9	66.9	4.1	3.0	3.3	365	310	234	126	52	34	7	12	25	67	0.5	3.9	29.8	0.0	0.0	0.0
7	87.9	60.1	74.0	3.8	2.4	3.0	589	527	435	287	154	110	-7777	-7777	1	8	1.7	12.3	31.0	0.0	0.0	0.0
8	86.6	57.5	72.1	3.8	2.6	2.9	529	468	379	240	124	87	1	2	6	21	1.2	11.3	31.0	0.0	0.0	0.0
9	76.4	46.9	61.7	3.2	2.6	2.7	238	194	136	65	25	16	39	54	86	165	0.0	3.8	29.5	0.0	0.8	0.0
10	63.2	34.7	48.9	4.4	2.5	3.0	49	34	17	4	-7777	-7777	237	284	360	502	0.0	0.5	26.1	0.5	10.1	0.0
11	46.8	23.3	35.1	6.6	3.8	5.1	3	1	-7777	-7777	0	0	601	660	749	898	0.0	0.0	13.1	5.7	24.3	0.3
12	37.5	13.4	25.5	5.9	6.0	5.7	0	0	0	0	0	0	916	978	1071	1226	0.0	0.0	5.3	9.6	30.4	4.7
Summary	61.2	34.8	48.0	4.9	3.7	4.0	1944	1660	1275	746	362	251	4450	4894	5602	6899	3.4	33.3	246.5	38.1	163.9	13.8

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **KILGORE 1 NE, NE US**

GHCND:USC00254432
Elev: 3041 ft. Lat: 42.950° N Lon: 100.945° 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	0.50	@	@	@	@			
2	0.50	@	@	@	@			
3	1.39	@	@	@	@			
4	2.64	@	@	@	@			
5	3.28	@	@	@	@			
6	3.70	@	@	@	@			
7	2.85	@	@	@	@			
8	2.10	@	@	@	@			
9	1.89	@	@	@	@			
10	1.33	@	@	@	@			
11	0.74	@	@	@	@			
12	0.37	@	@	@	@			
Summary	21.29	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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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: **KILGORE 1 NE, NE US**

GHCND:USC00254432
Elev: 3041 ft. Lat: 42.950° N Lon: 100.945° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	19	81	241	530	809	1053	993	650	312	80	9
45	2	6	39	143	382	659	898	838	504	197	37	2
50	-7777	1	13	71	249	510	744	683	363	109	12	-7777
55	-7777	-7777	3	27	141	365	589	529	238	49	3	0
60	0	0	1	7	66	234	435	379	136	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	26	91	177	320	505	681	632	408	225	73	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	30	111	352	882	1691	2744	3737	4387	4699	4779	4788
45	2	8	47	190	572	1231	2129	2967	3471	3668	3705	3707
50	-7777	1	14	85	334	844	1588	2271	2634	2743	2755	-7777
55	-7777	-7777	3	30	171	536	1125	1654	1892	1941	1944	1944
60	0	0	1	8	74	308	743	1122	1258	1275	-7777	1275
Growing Degree Units for Corn (Monthly)												
50/86	18	44	135	312	632	1137	1818	2450	2858	3083	3156	3171

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: **PLAINVIEW, NE US**

GHCND:USC00256761

Elev: 1680 ft. Lat: 42.349° N Lon: 97.793° 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	6.0	2.4	0.4	0.2	0.39	0.75	1.24
2	1.04	5.6	2.6	0.5	0.1	0.30	0.97	1.62
3	2.27	8.0	4.8	1.7	0.4	1.15	1.93	2.92
4	3.19	10.1	6.2	2.1	0.9	1.77	2.98	4.55
5	3.97	11.6	7.4	2.7	1.0	2.98	3.91	4.89
6	4.26	10.8	7.0	2.8	1.0	3.27	4.11	5.15
7	2.68	8.8	5.7	2.2	0.7	1.29	2.05	3.72
8	3.46	8.4	4.9	1.8	0.7	1.90	3.28	4.43
9	2.78	7.4	4.4	1.4	0.6	1.38	2.45	4.10
10	2.42	7.2	4.2	1.3	0.7	0.83	1.91	3.86
11	1.73	7.3	4.2	1.0	0.4	0.59	1.22	2.46
12	1.16	6.4	2.6	0.5	0.2	0.25	0.98	1.47
Summary	29.86	97.6	56.4	18.4	6.9	16.10	26.54	40.41

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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: **PLAINVIEW, NE US**

GHCND:USC00256761
 Elev: 1680 ft. Lat: 42.349° N Lon: 97.793° 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	8.0	4.4	2.6	0.9	0.3	0.1	16.3	10.3	7.1	1.5	4.0	7.0	11.2
2	7.0	3.7	2.4	0.7	0.4	0.1	12.4	7.2	5.2	1.2	2.5	4.7	10.3
3	7.9	3.3	2.4	1.0	0.4	0.1	10.5	5.5	2.9	0.3	3.0	7.7	10.5
4	4.3	1.4	1.2	0.5	0.4	0.1	3.1	1.8	0.8	0.3	0.0	2.8	6.0
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	0.9	0.4	0.2	0.1	0.1	0.1	0.3	0.1	0.1	0.0	0.0	0.0	1.0
11	6.1	3.1	2.6	0.9	0.3	0.1	4.7	1.8	0.7	0.2	3.0	5.0	7.5
12	8.3	4.6	2.8	0.9	0.5	0.1	15.0	7.1	3.8	2.1	4.0	8.6	13.5
Summary	42.5	20.9	14.2	5.0	2.4	0.7	62.3	33.8	20.6	5.6	16.5	35.8	60.0

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
 -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: **SHUBERT 2 SW, NE US**

GHCND:USC00257800

Elev: 1089 ft. Lat: 40.204° N Lon: 95.706° 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	0.72	@	@	@	@			
2	1.15	@	@	@	@			
3	2.47	@	@	@	@			
4	3.13	@	@	@	@			
5	4.90	@	@	@	@			
6	4.40	@	@	@	@			
7	4.43	@	@	@	@			
8	3.67	@	@	@	@			
9	3.55	@	@	@	@			
10	2.61	@	@	@	@			
11	1.88	@	@	@	@			
12	1.11	@	@	@	@			
Summary	34.02	9999	9999	9999	9999	9999	9999	9999

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-4444: year-round risk of frost-freeze

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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 DAM, NE US

GHCND:USC00258628
 Elev: 2808 ft. Lat: 40.174° N Lon: 101.061° 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	14.8	28.0	5.8	4.2	4.8	-7777	-7777	0	0	0	0	837	899	992	1147	0.0	0.0	9.1	8.1	30.8	2.6
2	45.3	17.8	31.5	6.6	4.7	5.2	-7777	-7777	0	0	0	0	657	713	796	936	0.0	0.0	11.2	5.5	26.9	2.3
3	54.7	25.6	40.1	4.2	3.1	3.3	7	4	1	-7777	0	0	468	526	617	770	0.0	-7777	19.8	2.4	23.9	0.5
4	64.6	35.0	49.8	4.4	2.7	3.2	54	37	20	5	1	-7777	210	253	326	461	0.0	0.4	25.7	0.2	10.5	0.0
5	73.9	46.9	60.4	3.8	2.3	2.7	210	167	113	47	13	7	43	62	101	190	0.1	1.7	30.4	0.0	0.9	0.0
6	84.5	57.0	70.8	3.8	2.6	3.0	475	417	332	202	99	69	3	5	10	30	1.1	8.3	30.0	0.0	0.0	0.0
7	90.9	62.9	76.9	3.3	1.9	2.5	679	617	524	372	227	175	0	-7777	-7777	3	4.1	17.4	31.0	0.0	0.0	0.0
8	89.1	61.1	75.1	3.9	2.2	2.9	623	561	469	319	183	136	-7777	-7777	1	7	2.6	14.8	31.0	0.0	0.0	0.0
9	80.7	50.4	65.5	3.9	2.6	3.0	336	285	214	117	49	31	19	28	48	100	0.3	6.8	29.6	0.0	0.3	0.0
10	67.7	37.4	52.5	4.0	2.4	2.7	84	59	33	10	2	1	160	197	264	395	0.0	0.8	28.0	0.2	7.4	0.0
11	53.1	25.6	39.3	5.4	3.2	3.9	6	3	1	-7777	0	0	475	532	620	769	0.0	0.0	17.9	2.1	23.4	0.1
12	42.1	16.1	29.1	5.9	4.5	5.1	-7777	0	0	0	0	0	803	865	958	1113	0.0	0.0	9.7	6.8	30.7	2.5
Summary	65.7	37.6	51.6	4.6	3.0	3.5	2474	2150	1707	1072	574	419	3675	4080	4733	5921	8.2	50.2	273.4	25.3	154.8	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 DAM, NE US**

GHCND:USC00258628
Elev: 2808 ft. Lat: 40.174° N Lon: 101.061° 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	0.45	2.6	1.4	0.3	0.1	0.12	0.23	0.76
2	0.45	3.3	1.6	0.1	-7777	0.13	0.34	0.73
3	1.23	5.1	3.0	0.7	0.1	0.48	1.00	1.81
4	2.16	7.0	4.4	1.3	0.6	1.24	1.69	2.96
5	3.21	10.6	6.7	1.8	0.5	1.60	2.86	4.56
6	3.15	9.1	5.7	2.0	0.6	2.21	3.03	4.12
7	3.42	8.5	5.6	2.1	0.8	1.86	2.64	4.24
8	2.89	7.8	5.2	2.0	0.7	1.32	2.39	4.42
9	1.49	5.8	3.0	0.9	0.3	0.67	1.22	1.96
10	1.66	6.1	3.4	0.9	0.3	0.50	1.50	2.77
11	0.89	3.9	2.1	0.5	0.2	0.38	0.59	1.45
12	0.52	2.7	1.3	0.3	-7777	0.15	0.31	0.76
Summary	21.52	72.5	43.4	12.9	4.2	10.66	17.80	30.54

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Station: **TRENTON DAM, NE US**

GHCND:USC00258628
 Elev: 2808 ft. Lat: 40.174° N Lon: 101.061° 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	2.2	1.6	0.6	0.3	-7777	10.5	7.3	4.9	1.3	1.5	3.2	8.4
2	3.8	2.3	1.5	0.4	0.1	0.0	7.6	4.5	2.1	0.0	1.0	3.5	5.4
3	4.8	2.1	1.6	0.5	0.1	-7777	3.4	1.5	0.6	0.1	1.0	3.4	7.8
4	2.0	1.0	0.8	0.2	-7777	0.0	1.1	0.5	0.1	0.0	0.0	0.6	2.8
5	-7777	-7777	-7777	0.0	0.0	0.0	-7777	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	0.2	-7777	-7777	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	1.2	0.4	0.3	0.2	0.1	0.0	0.5	0.3	0.1	0.0	0.0	0.0	0.0
11	3.4	1.5	1.1	0.3	0.1	0.0	2.5	1.1	0.5	0.1	0.6	2.6	4.5
12	4.6	2.2	1.6	0.5	0.2	0.1	8.1	4.8	3.0	0.9	1.1	2.5	6.1
Summary	24.7	11.7	8.5	2.7	0.9	0.1	33.8	20.0	11.3	2.4	5.2	15.8	35.0

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Station: **TRENTON DAM, NE US**

GHCND:USC00258628
Elev: 2808 ft. Lat: 40.174° N Lon: 101.061° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	36	134	319	633	922	1144	1088	767	407	116	18
45	3	11	66	204	482	773	989	933	619	278	59	4
50	-7777	3	26	115	337	623	834	778	474	168	23	-7777
55	-7777	-7777	7	54	210	475	679	623	336	84	6	-7777
60	0	0	1	20	113	332	524	469	214	33	1	0
Growing Degree Units for Corn (Monthly)												
50/86	35	56	135	234	388	586	736	698	480	285	111	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	52	186	505	1138	2060	3204	4292	5059	5466	5582	5600
45	3	14	80	284	766	1539	2528	3461	4080	4358	4417	4421
50	-7777	3	29	144	481	1104	1938	2716	3190	3358	3381	-7777
55	-7777	-7777	7	61	271	746	1425	2048	2384	2468	2474	-7777
60	0	0	1	21	134	466	990	1459	1673	1706	1707	1707
Growing Degree Units for Corn (Monthly)												
50/86	35	91	226	460	848	1434	2170	2868	3348	3633	3744	3779

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: **PLAINSVIEW RANCH, NE US**

GHCND:USC00256765
 Elev: 4678 ft. Lat: 42.261° N Lon: 103.519° 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	14.4	26.7				0	0	0	0	0	0	877	939	1032	1187	0.0	0.0	6.3	8.7	30.1	4.0
2	41.9	16.4	29.2				-7777	-7777	0	0	0	0	723	779	863	1004	0.0	0.0	7.9	5.5	27.1	2.9
3	50.5	23.9	37.2				2	-7777	-7777	0	0	0	554	614	707	862	0.0	0.0	16.7	2.4	25.3	0.6
4	59.0	31.5	45.3				12	7	3	-7777	-7777	0	305	359	445	593	0.0	0.0	23.1	0.4	15.8	0.0
5	69.5	41.6	55.6				106	75	40	11	1	-7777	89	120	178	304	0.0	0.3	29.8	0.0	1.8	0.0
6	78.6	50.0	64.3				290	238	167	72	22	11	11	19	38	93	0.3	3.1	30.0	0.0	0.0	0.0
7	87.0	57.1	72.1				528	467	376	231	107	70	1	1	3	13	0.7	12.1	31.0	0.0	0.0	0.0
8	85.8	54.9	70.4				476	416	326	191	83	52	1	2	5	25	0.4	9.9	31.0	0.0	0.0	0.0
9	76.0	45.4	60.7				209	167	112	47	12	6	39	57	92	176	0.0	2.4	29.9	0.0	0.8	0.0
10	61.9	32.8	47.4				32	20	9	2	-7777	-7777	268	318	401	549	0.0	0.0	26.2	0.3	14.3	0.0
11	48.1	23.3	35.7				2	1	-7777	0	0	0	581	640	729	879	0.0	0.0	14.1	4.0	24.8	0.3
12	38.9	15.3	27.1				0	0	0	0	0	0	864	926	1019	1174	0.0	0.0	5.0	8.4	29.8	3.0
Summary	61.4	33.9	47.6	9999	9999	9999	1657	1391	1033	554	225	139	4313	4774	5512	6859	1.4	27.8	251.0	29.7	169.8	10.8

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Station: **PLAINSVIEW RANCH, NE US**

GHCND:USC00256765
Elev: 4678 ft. Lat: 42.261° N Lon: 103.519° 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	0.36	@	@	@	@			
2	0.51	@	@	@	@			
3	1.12	@	@	@	@			
4	1.84	@	@	@	@			
5	3.09	@	@	@	@			
6	2.82	@	@	@	@			
7	2.01	@	@	@	@			
8	1.75	@	@	@	@			
9	1.46	@	@	@	@			
10	1.14	@	@	@	@			
11	0.64	@	@	@	@			
12	0.36	@	@	@	@			
Summary	17.10	9999	9999	9999	9999	9999	9999	9999

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Station: **PLAINSVIEW RANCH, NE US**

GHCND:USC00256765
Elev: 4678 ft. Lat: 42.261° N Lon: 103.519° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	13	87	203	485	729	992	940	621	264	66	13
45	2	3	38	108	340	579	837	785	473	157	27	3
50	0	-7777	12	45	209	431	682	630	331	79	8	-7777
55	0	-7777	2	12	106	290	528	476	209	32	2	0
60	0	0	-7777	3	40	167	376	326	112	9	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	17	20	86	160	307	448	632	595	398	201	62	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	24	111	314	799	1528	2520	3460	4081	4345	4411	4424
45	2	5	43	151	491	1070	1907	2692	3165	3322	3349	3352
50	0	-7777	12	57	266	697	1379	2009	2340	2419	2427	-7777
55	0	-7777	2	14	120	410	938	1414	1623	1655	1657	1657
60	0	0	-7777	3	43	210	586	912	1024	1033	-7777	1033
Growing Degree Units for Corn (Monthly)												
50/86	17	37	123	283	590	1038	1670	2265	2663	2864	2926	2940

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: **BREWSTER, NE US**

GHCND:USC00251130

Elev: 2493 ft. Lat: 41.938° N Lon: 99.863° 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	9.8	23.4	6.8	4.2	5.3	0	0	0	0	0	0	979	1041	1134	1289	0.0	0.0	6.4	11.1	30.9	6.8
2	39.2	13.3	26.3	6.7	5.4	5.8	-7777	-7777	-7777	0	0	0	805	861	945	1085	0.0	0.0	7.6	8.6	27.2	4.4
3	49.2	22.1	35.7	4.7	4.5	4.2	2	1	-7777	-7777	-7777	0	602	663	755	910	0.0	0.0	15.2	3.8	26.6	0.7
4	60.7	32.6	46.7	5.3	3.5	4.0	40	28	17	6	2	1	290	339	417	557	0.0	0.4	22.9	0.4	14.6	0.0
5	70.6	43.8	57.2	3.6	2.3	2.7	143	108	67	23	5	2	75	102	154	265	0.1	0.8	29.8	0.0	2.4	0.0
6	80.9	53.6	67.2	3.7	3.1	3.1	374	318	240	130	55	35	6	10	23	62	0.2	4.6	29.9	0.0	0.0	0.0
7	88.8	59.6	74.2	2.3	2.5	2.3	595	533	441	293	163	120	-7777	-7777	1	8	2.8	14.4	31.0	0.0	0.0	0.0
8	86.3	57.5	71.9	3.5	2.3	2.7	526	465	375	231	115	79	2	3	6	18	1.2	10.7	31.0	0.0	0.0	0.0
9	76.6	46.1	61.4	3.5	2.5	2.6	234	191	135	65	22	12	44	61	95	174	0.1	3.0	29.4	0.0	1.9	0.0
10	64.0	33.4	48.7	4.6	2.4	2.9	41	26	12	2	-7777	-7777	236	283	362	508	0.0	0.3	26.7	0.3	12.9	0.0
11	48.7	20.6	34.7	6.6	4.1	5.1	3	2	1	0	0	0	614	672	761	910	0.0	0.0	14.1	4.2	26.8	1.3
12	37.6	11.4	24.5	6.3	5.3	5.6	-7777	-7777	0	0	0	0	945	1007	1100	1255	0.0	0.0	6.0	10.7	30.8	4.6
Summary	61.6	33.7	47.7	4.8	3.5	3.9	1958	1672	1288	750	362	249	4598	5042	5753	7041	4.4	34.2	250.0	39.1	174.1	17.8

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Station: **BREWSTER, NE US**

GHCND:USC00251130

Elev: 2493 ft. Lat: 41.938° N Lon: 99.863° 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	0.49	2.6	1.0	0.1	0.0	0.15	0.34	0.86
2	0.63	2.9	1.5	0.3	0.1	0.24	0.45	0.74
3	1.34	4.7	3.2	0.7	0.1	0.72	1.00	1.77
4	2.25	7.4	4.8	1.4	0.3	1.38	2.12	2.84
5	3.90	9.4	6.9	2.6	1.0	2.81	3.76	4.80
6	4.51	8.8	6.3	2.9	1.2	2.47	3.81	5.62
7	3.13	6.5	4.6	1.6	1.0	2.02	2.82	3.97
8	2.53	5.9	4.4	1.6	0.8	1.86	2.40	3.34
9	2.21	5.6	3.7	1.2	0.4	1.48	1.96	3.02
10	1.78	4.4	3.1	1.0	0.3	0.55	1.21	2.56
11	1.09	3.7	2.4	0.5	0.1	0.24	1.03	1.80
12	0.29	2.3	1.2	0.2	0.1	0.15	0.19	0.42
Summary	24.15	64.2	43.1	14.1	5.4	14.07	21.09	31.74

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Station: **BREWSTER, NE US**

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 Elev: 2493 ft. Lat: 41.938° N Lon: 99.863° 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	2.7	2.0	0.7	0.3	0.1	@	@	@	@	2.0	3.8	8.0
2	6.1	2.3	1.9	0.7	0.3	0.0	@	@	@	@	2.0	4.5	7.0
3	5.0	2.2	1.6	0.6	0.2	0.0	@	@	@	@	1.0	5.0	8.0
4	1.8	1.1	1.0	0.4	0.2	0.1	@	@	@	@	0.0	0.0	3.0
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	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.2	0.4	0.3	0.2	0.1	0.0	@	@	@	@	0.0	0.0	0.5
11	4.0	1.4	1.1	0.6	0.2	0.1	@	@	@	@	0.5	1.5	9.8
12	5.3	1.9	1.5	0.4	0.2	0.1	@	@	@	@	1.1	2.0	10.0
Summary	29.6	12.1	9.5	3.6	1.5	0.4	9999	9999	9999	9999	6.6	16.8	46.3

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **BREWSTER, NE US**

GHCND:USC00251130
Elev: 2493 ft. Lat: 41.938° N Lon: 99.863° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	16	77	247	534	817	1060	989	642	304	73	9
45	1	4	33	152	385	668	905	834	497	189	34	2
50	-7777	1	11	84	252	519	750	679	358	99	12	-7777
55	0	-7777	2	40	143	374	595	526	234	41	3	-7777
60	0	-7777	-7777	17	67	240	441	375	135	12	1	0
Growing Degree Units for Corn (Monthly)												
50/86	23	30	87	188	332	514	677	633	415	233	84	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	24	101	348	882	1699	2759	3748	4390	4694	4767	4776
45	1	5	38	190	575	1243	2148	2982	3479	3668	3702	3704
50	-7777	1	12	96	348	867	1617	2296	2654	2753	2765	-7777
55	0	-7777	2	42	185	559	1154	1680	1914	1955	1958	-7777
60	0	-7777	-7777	17	84	324	765	1140	1275	1287	1288	1288
Growing Degree Units for Corn (Monthly)												
50/86	23	53	140	328	660	1174	1851	2484	2899	3132	3216	3238

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: **GENOA 2 W, NE US**

GHCND:USC00253185

Elev: 1591 ft. Lat: 41.451° N Lon: 97.764° 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	13.1	24.1	7.0	5.3	6.0	0	0	0	0	0	0	959	1021	1114	1269	0.0	0.0	4.5	12.4	30.4	4.9
2	39.3	17.0	28.2	6.9	5.6	6.0	-7777	-7777	-7777	0	0	0	752	808	892	1032	0.0	0.0	6.5	8.8	25.7	3.2
3	51.0	26.5	38.7	5.5	3.5	4.0	8	5	2	-7777	-7777	-7777	512	571	661	814	0.0	-7777	16.8	2.7	22.5	0.6
4	63.8	37.3	50.5	4.9	2.9	3.6	67	50	31	12	3	1	201	244	314	445	0.0	0.5	26.0	0.1	9.3	0.0
5	73.1	48.7	60.9	3.7	2.9	3.0	219	175	117	49	15	8	36	54	89	176	0.0	1.0	30.7	0.0	0.9	0.0
6	82.1	58.6	70.4	3.5	2.4	2.8	461	403	317	186	85	57	1	2	7	26	0.1	4.4	30.0	0.0	0.0	0.0
7	85.9	63.0	74.5	3.2	2.3	2.5	603	541	448	297	161	115	0	-7777	-7777	4	0.4	8.7	31.0	0.0	0.0	0.0
8	84.0	61.0	72.5	3.4	2.6	2.8	543	481	390	244	120	83	-7777	1	2	11	0.1	6.4	31.0	0.0	0.0	0.0
9	77.2	51.2	64.2	3.7	2.3	2.7	298	249	181	93	37	23	22	33	55	117	0.0	2.6	29.7	0.0	0.7	0.0
10	64.7	38.6	51.7	3.7	2.8	2.6	69	49	27	8	2	1	173	215	286	422	0.0	0.3	27.9	0.2	7.9	0.0
11	48.6	26.0	37.3	6.6	3.8	4.8	5	3	1	-7777	0	0	536	594	682	831	0.0	0.0	13.7	3.4	21.8	0.3
12	35.8	15.4	25.6	6.8	5.5	6.0	0	0	0	0	0	0	911	973	1066	1221	0.0	0.0	4.1	10.8	29.8	3.3
Summary	61.7	38.0	49.9	4.9	3.5	3.9	2273	1956	1514	889	423	288	4103	4516	5168	6368	0.6	23.9	251.9	38.4	149.0	12.3

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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: **GENOA 2 W, NE US**

GHCND:USC00253185

Elev: 1591 ft. Lat: 41.451° N Lon: 97.764° 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	5.5	1.7	0.2	0.0	0.28	0.52	0.87
2	0.77	5.4	2.4	0.2	-7777	0.28	0.70	1.04
3	2.08	7.2	4.4	1.1	0.4	0.66	1.56	2.98
4	2.77	8.0	5.2	1.8	0.8	1.73	2.64	3.74
5	4.27	10.8	7.4	2.7	1.2	2.67	3.77	5.72
6	4.68	9.9	6.8	3.1	1.4	3.00	3.88	5.70
7	3.31	8.8	5.5	2.1	1.0	1.87	2.83	3.98
8	3.15	8.1	5.2	2.3	0.8	1.71	2.20	4.38
9	2.81	7.4	4.7	2.0	0.7	1.90	2.60	3.95
10	2.07	6.9	4.4	1.3	0.5	0.90	1.41	3.08
11	1.47	5.7	2.9	1.0	0.2	0.57	1.14	2.21
12	0.84	5.9	2.2	0.3	0.1	0.32	0.67	1.20
Summary	28.82	89.6	52.8	18.1	7.1	15.89	23.92	38.85

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

Station: **GENOA 2 W, NE US**

GHCND:USC00253185

Elev: 1591 ft. Lat: 41.451° N Lon: 97.764° 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	4.5	1.7	0.6	0.3	0.0	14.7	9.3	5.9	1.5	1.5	6.0	8.2
2	6.3	4.0	2.0	0.6	0.2	-7777	12.6	8.2	5.4	1.7	2.1	5.9	9.8
3	5.4	2.8	1.5	0.7	0.3	0.1	5.2	3.5	1.9	0.5	0.8	3.1	7.5
4	1.5	1.1	0.6	0.2	0.1	0.0	0.7	0.2	0.1	0.0	0.0	0.0	2.0
5	-7777	-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	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.1	0.5	0.3	0.1	0.1	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.6
11	4.0	3.0	1.3	0.4	0.1	-7777	3.7	1.2	0.7	0.3	0.7	2.8	5.7
12	5.6	4.7	2.1	0.7	0.2	0.0	12.1	7.1	4.5	1.6	1.5	4.1	7.5
Summary	29.4	20.6	9.5	3.3	1.3	0.1	49.3	29.6	18.5	5.6	6.6	21.9	41.3

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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: **GENOA 2 W, NE US**

GHCND:USC00253185

Elev: 1591 ft. Lat: 41.451° N Lon: 97.764° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	21	114	337	648	910	1068	1007	726	378	91	7
45	1	6	57	220	494	760	913	852	578	249	45	1
50	-7777	1	24	129	347	610	758	697	433	143	17	-7777
55	0	-7777	8	67	219	461	603	543	298	69	5	0
60	0	-7777	2	31	117	317	448	390	181	27	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	25	97	225	397	595	717	670	463	247	72	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	28	142	479	1127	2037	3105	4112	4838	5216	5307	5314
45	1	7	64	284	778	1538	2451	3303	3881	4130	4175	4176
50	-7777	1	25	154	501	1111	1869	2566	2999	3142	3159	-7777
55	0	-7777	8	75	294	755	1358	1901	2199	2268	2273	2273
60	0	-7777	2	33	150	467	915	1305	1486	1513	1514	1514
Growing Degree Units for Corn (Monthly)												
50/86	15	40	137	362	759	1354	2071	2741	3204	3451	3523	3533

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: **HUBBELL, NE US**

GHCND:USC00254043

Elev: 1470 ft. Lat: 40.010° N Lon: 97.498° 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	0.61	3.9	2.0	0.2	0.0	0.23	0.65	0.92
2	0.79	4.3	2.6	0.4	-7777	0.39	0.66	1.06
3	2.00	6.2	4.2	1.3	0.3	1.02	1.65	2.44
4	2.69	7.9	5.4	1.8	0.6	1.57	2.56	3.57
5	4.37	10.9	7.7	3.0	1.2	2.37	4.39	6.71
6	4.60	8.4	6.4	3.1	1.4	3.29	3.99	5.95
7	3.79	7.3	6.0	2.5	1.2	1.75	2.96	4.34
8	3.60	7.6	5.5	2.2	1.1	2.01	3.61	4.72
9	3.26	6.6	4.8	2.1	0.9	1.51	2.92	4.52
10	2.08	5.7	4.0	1.3	0.4	0.90	1.59	2.92
11	1.43	4.7	2.8	0.9	0.3	0.60	0.99	2.20
12	0.93	3.9	2.6	0.5	0.1	0.32	0.70	1.54
Summary	30.15	77.4	54.0	19.3	7.5	15.96	26.67	40.89

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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: **HUBBELL, NE US**

GHCND:USC00254043
 Elev: 1470 ft. Lat: 40.010° N Lon: 97.498° 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	2.4	2.1	0.8	0.2	-7777	9.0	5.4	2.7	0.7	2.0	6.3	7.5
2	5.6	2.4	2.0	1.0	0.3	0.0	7.3	5.0	3.1	0.4	1.0	5.7	7.0
3	3.6	1.4	1.3	0.6	0.2	-7777	2.7	1.3	0.5	0.2	0.5	2.0	5.5
4	0.8	0.3	0.3	0.1	0.1	0.0	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	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	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
11	2.7	1.0	0.9	0.4	0.2	0.0	2.0	0.9	0.3	0.0	0.0	1.3	5.0
12	5.3	1.9	1.9	0.9	0.2	-7777	7.4	5.1	2.8	0.8	2.0	4.0	7.0
Summary	24.3	9.5	8.6	3.9	1.2	0.0	28.7	17.9	9.4	2.1	5.5	19.3	32.0

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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: **DAVID CITY, NE US**

GHCND:USC00252205

Elev: 1611 ft. Lat: 41.249° N Lon: 97.133° 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	31.4	11.6	21.5	6.5	5.6	5.9	0	0	0	0	0	0	1038	1100	1193	1348	0.0	0.0	2.5	15.4	30.8	5.8
2	36.1	15.6	25.8	6.9	5.7	6.1	-7777	-7777	-7777	0	0	0	816	872	956	1096	0.0	0.0	5.2	10.9	26.3	3.8
3	48.0	25.3	36.7	5.4	3.7	4.2	7	4	1	-7777	-7777	0	576	635	725	879	0.0	0.0	14.0	4.3	23.4	0.6
4	61.0	36.6	48.8	4.6	3.2	3.7	56	41	24	8	2	1	242	287	360	494	0.0	0.3	23.5	0.3	9.4	0.0
5	71.6	48.5	60.1	3.8	3.9	3.4	205	163	109	44	12	6	48	69	107	198	0.0	0.8	30.5	0.0	0.9	0.0
6	81.4	58.9	70.2	3.5	3.3	3.2	456	398	313	185	86	57	1	3	9	31	0.2	3.5	30.0	0.0	0.0	0.0
7	85.9	64.0	75.0	3.0	2.4	2.5	618	556	464	313	175	128	-7777	-7777	-7777	4	0.5	9.1	31.0	0.0	0.0	0.0
8	83.8	61.6	72.7	3.5	3.1	3.1	549	487	396	251	128	90	-7777	1	2	13	0.3	6.4	31.0	0.0	0.0	0.0
9	76.2	51.6	63.9	3.5	2.5	2.7	293	245	179	92	36	22	26	38	62	125	0.0	2.2	29.8	0.0	0.5	0.0
10	63.1	39.2	51.1	3.8	2.6	2.8	71	51	29	9	2	1	190	232	303	439	0.0	-7777	26.5	0.2	7.3	0.0
11	46.9	26.1	36.5	6.0	4.2	4.8	5	2	1	-7777	0	0	560	617	706	855	0.0	0.0	12.3	4.0	22.0	0.3
12	33.1	14.4	23.7	6.5	6.2	6.2	-7777	0	0	0	0	0	969	1031	1124	1279	0.0	0.0	3.0	13.6	30.4	4.2
Summary	59.9	37.8	48.8	4.8	3.9	4.1	2260	1947	1516	902	441	305	4466	4885	5547	6761	1.0	22.3	239.3	48.7	151.0	14.7

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **DAVID CITY, NE US**

GHCND:USC00252205

Elev: 1611 ft. Lat: 41.249° N Lon: 97.133° 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	0.66	4.6	2.2	0.2	0.0	0.41	0.62	0.91
2	0.81	4.9	2.3	0.3	-7777	0.40	0.74	1.14
3	2.14	7.4	4.5	1.4	0.4	0.91	1.94	2.64
4	2.86	9.0	5.8	2.0	0.7	1.41	2.68	3.76
5	4.10	11.3	7.9	3.1	0.7	2.47	3.83	5.58
6	4.92	10.3	7.1	2.8	1.5	2.34	4.33	6.69
7	3.06	8.4	5.6	2.3	0.6	1.98	2.57	3.90
8	3.87	8.4	5.8	2.3	1.1	1.72	3.40	5.20
9	2.93	7.6	4.8	1.8	0.8	1.36	2.83	4.12
10	2.05	6.6	4.0	1.3	0.5	0.81	1.74	3.17
11	1.47	5.0	3.1	1.0	0.3	0.68	1.19	2.02
12	0.99	5.3	2.6	0.6	0.0	0.44	0.75	1.39
Summary	29.86	88.8	55.7	19.1	6.6	14.93	26.62	40.52

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Station: **DAVID CITY, NE US**

GHCND:USC00252205
 Elev: 1611 ft. Lat: 41.249° N Lon: 97.133° 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	6.1	3.4	2.2	0.8	0.4	0.0	14.9	9.5	6.2	2.0	2.1	6.0	9.1
2	6.4	3.6	2.3	0.8	0.3	0.0	12.3	7.8	5.6	0.8	3.0	7.3	9.6
3	5.5	2.5	1.5	0.6	0.4	0.0	5.1	2.4	1.5	0.4	0.9	3.0	9.1
4	1.9	0.8	0.6	0.3	0.2	0.0	0.9	0.5	0.3	0.0	0.0	0.0	3.4
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	0.2	-7777	-7777	-7777	-7777	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.3	0.1	0.1	0.0	0.3	0.2	-7777	0.0	0.0	0.0	0.0
11	2.4	1.9	1.2	0.3	0.1	-7777	2.2	0.5	0.2	0.1	0.2	1.5	3.5
12	6.4	3.8	2.2	0.8	0.2	0.0	12.9	7.6	5.1	2.1	1.9	5.2	9.9
Summary	29.7	16.3	10.3	3.7	1.7	0.0	48.6	28.5	18.9	5.4	8.1	23.0	44.6

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

Station: **DAVID CITY, NE US**

GHCND:USC00252205

Elev: 1611 ft. Lat: 41.249° N Lon: 97.133° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	96	299	622	905	1083	1014	717	366	85	5
45	1	5	48	192	470	754	928	859	570	244	43	1
50	-7777	1	20	111	327	604	773	704	426	143	17	-7777
55	0	-7777	7	56	205	456	618	549	293	71	5	-7777
60	0	-7777	1	24	109	313	464	396	179	29	1	0
Growing Degree Units for Corn (Monthly)												
50/86	7	19	77	192	372	592	730	675	450	226	60	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	22	118	417	1039	1944	3027	4041	4758	5124	5209	5214
45	1	6	54	246	716	1470	2398	3257	3827	4071	4114	4115
50	-7777	1	21	132	459	1063	1836	2540	2966	3109	3126	-7777
55	0	-7777	7	63	268	724	1342	1891	2184	2255	2260	-7777
60	0	-7777	1	25	134	447	911	1307	1486	1515	1516	1516
Growing Degree Units for Corn (Monthly)												
50/86	7	26	103	295	667	1259	1989	2664	3114	3340	3400	3407

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: **GUIDE ROCK, NE US**

GHCND:USC00253485

Elev: 1634 ft. Lat: 40.069° N Lon: 98.333° 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	0.59	3.0	2.0	0.3	0.0	0.15	0.52	0.86
2	0.74	3.1	2.3	0.3	0.0	0.27	0.67	0.98
3	1.90	5.0	4.0	1.0	0.3	0.63	1.91	2.77
4	2.33	6.3	5.2	1.6	0.6	1.19	2.12	3.09
5	4.43	8.5	7.5	3.6	1.6	2.74	4.05	5.12
6	3.04	7.2	6.0	2.0	0.8	2.00	2.92	3.88
7	4.26	6.8	5.7	2.8	1.4	2.28	4.07	5.76
8	2.87	5.5	4.7	1.9	0.9	2.01	3.06	3.72
9	2.26	5.1	4.0	1.4	0.5	1.15	1.97	3.17
10	2.18	4.5	3.7	1.4	0.6	0.98	1.70	3.39
11	1.19	3.3	2.4	0.7	0.3	0.43	0.83	1.87
12	0.78	2.7	1.6	0.4	0.1	0.22	0.45	1.13
Summary	26.57	61.0	49.1	17.4	7.1	14.05	24.27	35.74

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Station: **GUIDE ROCK, NE US**

GHCND:USC00253485
 Elev: 1634 ft. Lat: 40.069° N Lon: 98.333° 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	2.0	1.6	0.6	0.3	0.0	@	@	@	@	1.1	4.0	7.2
2	4.8	2.1	1.8	0.9	0.3	0.0	@	@	@	@	1.4	4.0	7.5
3	3.0	1.0	0.9	0.5	0.2	0.0	@	@	@	@	0.0	1.0	4.0
4	0.3	0.3	0.3	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	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	2.5	0.8	0.8	0.4	0.1	0.0	@	@	@	@	0.0	0.0	4.0
12	3.8	2.4	1.7	0.7	0.2	0.0	@	@	@	@	1.0	3.3	6.0
Summary	19.5	8.6	7.1	3.2	1.1	0.0	9999	9999	9999	9999	3.5	12.3	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: **WAUNETA, NE US**

GHCND:USC00259020
 Elev: 2940 ft. Lat: 40.412° N Lon: 101.361° 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	14.7	28.1				-7777	0	0	0	0	0	834	896	989	1144	0.0	0.0	10.7	8.7	30.4	3.5
2	44.8	17.5	31.2				-7777	-7777	-7777	0	0	0	668	723	807	947	0.0	0.0	9.7	4.8	27.6	1.7
3	53.8	24.5	39.2				7	3	1	0	0	0	498	557	647	801	0.0	0.0	20.1	1.8	25.1	0.5
4	62.5	34.1	48.3				38	25	11	2	-7777	-7777	239	286	362	502	0.0	0.1	24.9	0.1	12.3	0.0
5	72.4	46.3	59.4				188	147	97	41	12	6	53	75	117	217	0.0	1.2	30.4	0.0	1.1	0.0
6	82.8	56.3	69.6				440	383	300	175	80	55	3	6	14	39	0.4	6.9	30.0	0.0	0.0	0.0
7	89.7	61.7	75.7				641	579	487	335	190	140	-7777	-7777	1	3	1.8	15.4	31.0	0.0	0.0	0.0
8	87.4	59.6	73.5				573	512	420	272	140	97	-7777	-7777	2	9	1.0	12.7	31.0	0.0	0.0	0.0
9	79.2	48.9	64.1				290	240	173	87	34	22	19	29	52	116	0.3	4.2	29.9	0.0	0.3	0.0
10	65.8	34.9	50.4				60	42	21	4	-7777	-7777	204	247	320	458	0.0	0.1	27.2	0.4	10.1	0.0
11	51.8	24.7	38.3				3	1	-7777	-7777	0	0	505	563	653	803	0.0	0.0	17.0	1.6	24.5	0.0
12	40.8	15.4	28.1				0	0	0	0	0	0	833	895	988	1143	0.0	0.0	7.6	7.2	30.7	3.0
Summary	64.4	36.6	50.5	9999	9999	9999	2240	1932	1510	916	456	320	3856	4277	4952	6182	3.5	40.6	269.5	24.6	162.1	8.7

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Station: **WAUNETA, NE US**

GHCND:USC00259020

Elev: 2940 ft. Lat: 40.412° N Lon: 101.361° 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	0.41	2.8	1.1	0.2	-7777	0.12	0.27	0.54
2	0.46	3.7	1.6	0.1	0.0	0.13	0.34	0.77
3	1.14	5.9	3.0	0.6	0.2	0.56	0.78	1.79
4	1.87	6.7	3.9	1.2	0.4	0.91	1.53	2.83
5	3.05	10.3	6.2	1.9	0.6	1.52	2.76	3.77
6	3.25	8.7	5.9	2.4	0.7	2.00	3.30	4.23
7	2.68	7.6	5.1	1.8	0.8	1.84	2.54	3.37
8	2.43	6.8	4.5	1.5	0.7	1.13	2.02	3.36
9	1.30	5.3	3.2	0.8	0.3	0.57	1.12	1.94
10	1.51	5.1	3.2	0.8	0.1	0.52	1.40	1.67
11	0.69	3.7	1.9	0.4	-7777	0.20	0.53	0.95
12	0.43	2.9	1.1	0.3	-7777	0.09	0.24	0.64
Summary	19.22	69.5	40.7	12.0	3.8	9.59	16.83	25.86

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Station: **WAUNETA, NE US**

GHCND:USC00259020
 Elev: 2940 ft. Lat: 40.412° N Lon: 101.361° 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	1.9	1.7	0.7	0.3	0.1	7.6	4.8	2.8	0.9	0.8	4.0	6.7
2	5.0	2.2	1.7	0.7	0.1	0.0	5.1	2.9	1.4	-7777	1.0	3.8	8.8
3	5.3	1.5	1.3	0.8	0.3	0.0	2.1	1.3	0.6	0.0	1.0	3.1	8.2
4	1.4	0.4	0.4	0.2	0.1	-7777	0.5	0.3	0.2	0.0	0.0	0.0	1.0
5	-7777	-7777	-7777	0.0	0.0	0.0	-7777	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	0.4	0.1	0.1	0.1	0.1	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	0.8	0.2	0.2	0.1	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
11	3.4	1.0	0.9	0.6	0.4	0.0	1.7	0.9	0.6	0.1	1.0	1.8	5.5
12	4.8	2.1	1.6	0.6	0.3	0.0	6.5	4.9	3.4	1.1	0.1	3.5	7.3
Summary	26.3	9.4	7.9	3.8	1.7	0.1	23.8	15.3	9.2	2.1	3.9	16.2	37.5

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Station: **WAUNETA, NE US**

GHCND:USC00259020
Elev: 2940 ft. Lat: 40.412° N Lon: 101.361° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	25	114	282	601	886	1106	1038	721	348	91	16
45	4	7	57	175	452	736	951	883	573	227	44	4
50	-7777	2	23	94	311	587	796	728	428	130	14	1
55	-7777	-7777	7	38	188	440	641	573	290	60	3	0
60	0	-7777	1	11	97	300	487	420	173	21	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	39	42	121	206	362	559	718	669	457	261	92	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	42	156	438	1039	1925	3031	4069	4790	5138	5229	5245
45	4	11	68	243	695	1431	2382	3265	3838	4065	4109	4113
50	-7777	2	25	119	430	1017	1813	2541	2969	3099	3113	3114
55	-7777	-7777	7	45	233	673	1314	1887	2177	2237	2240	2240
60	0	-7777	1	12	109	409	896	1316	1489	1510	-7777	1510
Growing Degree Units for Corn (Monthly)												
50/86	39	81	202	408	770	1329	2047	2716	3173	3434	3526	3553

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **POLK, NE US**

GHCND:USC00256837

Elev: 1739 ft. Lat: 41.076° N Lon: 97.787° 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	0.51	3.1	1.4	0.2	-7777	0.12	0.47	0.71
2	0.58	3.4	1.4	0.1	-7777	0.35	0.60	0.83
3	2.05	6.1	4.4	1.1	0.4	0.96	1.52	3.10
4	2.74	7.0	4.8	1.6	0.6	1.50	2.56	3.37
5	4.69	10.2	7.6	3.3	1.2	3.31	4.17	5.97
6	4.36	9.1	6.0	2.4	1.3	2.60	3.94	5.81
7	3.83	7.9	5.7	2.5	0.9	1.85	3.08	5.86
8	3.11	7.1	5.0	2.1	0.8	1.74	2.61	4.76
9	2.68	5.8	4.1	1.4	0.7	1.29	2.38	3.20
10	2.16	5.8	4.1	1.3	0.5	0.92	1.68	3.04
11	1.28	4.0	2.1	0.8	0.2	0.48	1.09	1.97
12	0.77	3.4	1.7	0.4	-7777	0.25	0.62	1.23
Summary	28.76	72.9	48.3	17.2	6.6	15.37	24.72	39.85

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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

Station: **POLK, NE US**

GHCND:USC00256837
 Elev: 1739 ft. Lat: 41.076° N Lon: 97.787° 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	6.2	2.4	1.9	0.8	0.3	0.0	12.7	8.3	5.6	2.3	1.5	5.5	10.0
2	6.0	2.7	2.3	0.9	0.3	-7777	10.8	6.9	4.3	2.5	3.0	6.9	9.0
3	4.2	1.7	1.5	0.6	0.3	0.1	3.5	2.0	1.4	0.5	1.0	2.0	5.0
4	2.2	0.7	0.7	0.4	0.1	0.0	0.7	0.4	0.2	-7777	0.0	0.0	4.0
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	-7777	-7777	-7777	-7777	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.3	0.3	0.1	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0
11	2.9	1.6	1.4	0.3	0.1	0.0	2.8	0.9	0.7	0.2	0.0	2.0	3.5
12	5.5	2.6	2.2	0.9	0.3	0.0	9.0	5.1	3.4	1.8	0.8	4.5	8.0
Summary	27.9	12.0	10.3	4.0	1.5	0.1	39.9	23.8	15.7	7.3	6.3	20.9	39.5

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 -4444: year-round risk of frost-freeze
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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: **UEHLING, NE US**

GHCND:USC00258676

Elev: 1270 ft. Lat: 41.734° N Lon: 96.503° 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	0.68	@	@	@	@			
2	0.82	@	@	@	@			
3	2.07	@	@	@	@			
4	3.21	@	@	@	@			
5	4.39	@	@	@	@			
6	4.85	@	@	@	@			
7	3.74	@	@	@	@			
8	3.41	@	@	@	@			
9	3.15	@	@	@	@			
10	2.21	@	@	@	@			
11	1.46	@	@	@	@			
12	1.00	@	@	@	@			
Summary	30.99	9999	9999	9999	9999	9999	9999	9999

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

Station: **NELIGH, NE US**

GHCND:USC00255830

Elev: 1759 ft. Lat: 42.130° N Lon: 98.028° 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	0.55	4.6	1.6	0.2	0.0	0.22	0.54	0.79
2	0.73	4.8	2.2	0.2	0.1	0.36	0.66	0.98
3	1.77	7.3	4.5	1.1	0.2	0.94	1.42	2.41
4	2.75	9.5	5.6	1.7	0.7	1.58	2.48	3.67
5	3.94	10.6	7.1	2.7	0.8	2.57	3.62	4.67
6	4.07	10.4	6.8	2.6	1.1	2.24	3.56	5.17
7	3.17	8.3	6.0	2.2	0.7	1.91	2.76	3.41
8	3.57	8.3	5.4	2.2	1.0	1.98	3.39	4.51
9	2.48	6.8	4.5	1.7	0.6	1.51	2.40	3.20
10	2.32	7.3	4.3	1.6	0.5	1.00	1.65	3.13
11	1.28	5.4	3.1	0.9	0.2	0.46	0.94	1.87
12	0.82	5.2	2.3	0.5	0.1	0.34	0.51	0.95
Summary	27.45	88.5	53.4	17.6	6.0	15.11	23.93	34.76

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1981-2010**

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

Station: **NELIGH, NE US**

GHCND:USC00255830

Elev: 1759 ft. Lat: 42.130° N Lon: 98.028° 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	5.9	3.8	2.2	0.7	0.2	0.0	16.3	10.0	5.3	1.0	3.5	5.0	8.6
2	6.0	3.6	2.2	0.6	0.2	0.0	13.1	8.1	3.8	0.6	2.1	4.6	8.5
3	6.1	3.4	2.2	0.7	0.2	0.0	7.5	3.8	1.5	0.4	1.7	4.2	8.7
4	3.1	1.2	1.0	0.4	0.2	0.0	1.7	0.9	0.5	-7777	0.0	0.4	4.5
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	0.7	0.5	0.4	-7777	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0
11	4.8	2.4	1.9	0.6	0.2	-7777	5.4	2.4	1.2	0.1	1.6	2.4	7.3
12	7.4	4.4	2.7	0.9	0.3	0.0	15.6	7.8	4.6	1.5	4.0	6.2	9.9
Summary	34.0	19.3	12.6	3.9	1.3	0.0	60.2	33.1	16.9	3.6	12.9	22.8	47.5

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1981-2010**

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

Station: **BURWELL, NE US**

GHCND:USC00251345

Elev: 2175 ft. Lat: 41.777° N Lon: 99.143° 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	10.8	22.4	6.9	5.5	6.0	0	0	0	0	0	0	1011	1073	1166	1321	0.0	0.0	4.3	13.2	30.9	5.8
2	37.8	13.9	25.9	6.8	5.9	6.1	-7777	-7777	0	0	0	0	816	872	956	1096	0.0	0.0	5.9	9.5	27.1	4.0
3	48.7	22.5	35.6	5.0	3.7	3.9	2	1	-7777	-7777	0	0	604	664	757	911	0.0	0.0	15.2	4.4	26.5	0.8
4	60.1	33.4	46.7	4.7	2.7	3.4	35	25	14	4	-7777	-7777	282	332	411	551	0.0	0.1	23.3	0.5	13.6	0.0
5	70.1	46.2	58.1	3.4	2.8	2.7	160	122	76	27	6	3	62	87	134	240	0.0	0.2	30.3	0.0	1.7	0.0
6	79.5	56.3	67.9	3.4	2.7	2.8	391	334	253	136	55	35	4	7	16	49	-7777	2.7	30.0	0.0	-7777	0.0
7	85.6	61.7	73.7	3.3	2.1	2.5	578	516	423	275	143	101	-7777	-7777	1	7	0.5	8.5	31.0	0.0	0.0	0.0
8	83.1	59.1	71.1	3.3	2.3	2.7	500	438	349	208	94	62	1	2	5	18	0.1	5.8	31.0	0.0	0.0	0.0
9	75.3	48.6	61.9	3.8	2.6	2.8	242	197	138	65	22	12	33	49	80	157	0.0	1.6	29.6	0.0	1.1	0.0
10	62.3	35.0	48.6	3.8	2.3	2.5	40	27	13	3	-7777	-7777	237	285	365	510	0.0	0.1	26.1	0.4	11.2	0.0
11	46.5	22.2	34.4	6.6	3.8	4.9	1	1	-7777	-7777	0	0	621	680	770	919	0.0	0.0	12.2	4.7	26.1	0.8
12	34.0	11.7	22.9	6.6	5.2	5.7	0	0	0	0	0	0	996	1058	1151	1306	0.0	0.0	3.8	12.5	30.7	5.1
Summary	59.8	35.1	47.4	4.8	3.5	3.8	1949	1661	1266	718	320	213	4667	5109	5812	7085	0.6	19.0	242.7	45.2	168.9	16.5

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

Station: **BURWELL, NE US**

GHCND:USC00251345

Elev: 2175 ft. Lat: 41.777° N Lon: 99.143° 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	0.52	3.5	1.6	0.2	-7777	0.14	0.42	0.73
2	0.65	4.3	2.4	0.2	-7777	0.21	0.63	0.93
3	1.50	6.1	3.3	1.0	0.2	0.65	1.26	1.99
4	2.79	8.8	5.8	2.0	0.6	1.42	2.39	3.65
5	3.84	9.8	7.0	2.3	0.9	2.52	3.38	5.78
6	3.88	10.1	7.1	2.9	1.0	2.50	3.27	5.13
7	3.07	7.7	4.9	2.1	0.7	1.56	2.46	3.98
8	3.32	7.8	5.2	1.9	1.0	1.82	3.00	4.37
9	2.33	6.8	4.3	1.7	0.6	1.35	2.16	3.26
10	2.02	6.4	4.2	1.3	0.6	0.86	1.55	3.06
11	1.09	4.4	2.4	0.6	0.2	0.40	0.81	1.73
12	0.62	3.8	1.7	0.2	0.1	0.20	0.34	0.84
Summary	25.63	79.5	49.9	16.4	5.9	13.63	21.67	35.45

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Station: **BURWELL, NE US**

GHCND:USC00251345

Elev: 2175 ft. Lat: 41.777° N Lon: 99.143° 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	2.9	2.1	0.7	0.3	0.1	15.7	11.2	5.7	1.7	2.1	5.0	9.4
2	5.4	2.9	2.2	0.7	0.2	0.0	12.3	7.0	4.1	0.9	2.0	5.8	7.4
3	5.3	2.8	2.1	0.7	0.2	-7777	5.3	2.7	1.9	0.1	1.0	3.7	6.0
4	3.8	1.2	1.2	0.5	0.3	-7777	1.1	0.5	0.3	0.0	0.0	2.0	8.0
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	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.3	0.6	0.5	0.2	0.1	0.0	0.7	0.3	0.1	0.0	0.0	0.0	1.1
11	4.3	1.9	1.5	0.7	0.3	-7777	4.9	2.1	1.3	0.2	0.7	3.0	5.0
12	6.0	2.8	2.2	0.5	0.2	-7777	12.1	7.1	4.2	1.3	2.0	4.1	10.0
Summary	32.4	15.1	11.8	4.0	1.6	0.1	52.1	30.9	17.6	4.2	7.8	23.6	46.9

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www.ncdc.noaa.gov

Station: **BURWELL, NE US**

GHCND:USC00251345

Elev: 2175 ft. Lat: 41.777° N Lon: 99.143° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	11	77	243	563	837	1043	964	659	299	57	3
45	-7777	3	33	143	413	687	888	809	512	185	24	-7777
50	-7777	-7777	12	75	274	537	733	654	371	97	7	-7777
55	0	-7777	2	35	160	391	578	500	242	40	1	0
60	0	0	-7777	14	76	253	423	349	138	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	12	21	84	176	338	535	693	631	416	211	60	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	14	91	334	897	1734	2777	3741	4400	4699	4756	4759
45	-7777	3	36	179	592	1279	2167	2976	3488	3673	3697	-7777
50	-7777	-7777	12	87	361	898	1631	2285	2656	2753	2760	-7777
55	0	-7777	2	37	197	588	1166	1666	1908	1948	1949	1949
60	0	0	-7777	14	90	343	766	1115	1253	1266	-7777	1266
Growing Degree Units for Corn (Monthly)												
50/86	12	33	117	293	631	1166	1859	2490	2906	3117	3177	3187

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **MITCHELL 5 E, NE US**

GHCND:USC00255590
Elev: 4081 ft. Lat: 41.948° N Lon: 103.701° 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	14.6	27.2	5.1	3.9	4.3	0	0	0	0	0	0	862	924	1017	1172	0.0	0.0	6.7	7.7	29.9	3.4
2	43.0	16.6	29.8	5.9	4.7	5.1	-7777	-7777	-7777	0	0	0	705	761	845	985	0.0	0.0	9.2	5.9	26.6	2.9
3	51.5	24.5	38.0	4.3	2.7	3.2	3	2	-7777	-7777	0	0	530	591	682	837	0.0	0.0	17.6	2.6	25.2	0.5
4	60.9	32.5	46.7	4.6	2.6	3.3	30	19	9	2	-7777	-7777	279	328	408	551	0.0	0.3	23.6	0.7	13.4	0.0
5	71.0	43.2	57.1	3.9	2.7	3.0	146	111	68	23	5	2	81	108	158	268	-7777	0.8	29.5	0.0	1.9	0.0
6	81.6	53.0	67.3	4.0	2.3	3.0	376	321	242	131	54	34	7	12	23	63	0.3	6.6	30.0	0.0	0.0	0.0
7	88.4	58.2	73.3	2.8	2.1	2.3	567	506	414	265	134	92	-7777	-7777	2	8	1.6	13.5	31.0	0.0	0.0	0.0
8	85.3	55.8	70.6	2.5	2.2	2.2	483	423	333	192	79	47	1	3	6	21	0.4	8.7	31.0	0.0	0.0	0.0
9	76.6	45.3	61.0	3.3	2.3	2.6	221	177	118	49	12	5	42	58	90	171	0.0	3.0	29.3	0.0	1.3	0.0
10	62.9	33.3	48.1	3.4	2.5	2.5	36	23	10	1	-7777	-7777	250	298	379	525	0.0	0.1	25.5	0.4	11.9	-7777
11	49.2	21.7	35.5	5.3	3.7	4.3	2	1	-7777	0	0	0	588	647	737	886	0.0	0.0	14.2	2.2	26.5	0.8
12	39.5	13.4	26.4	5.5	4.9	5.1	-7777	0	0	0	0	0	885	947	1040	1195	0.0	0.0	7.0	8.1	30.2	4.1
Summary	62.5	34.3	48.4	4.2	3.1	3.4	1864	1583	1194	663	284	180	4230	4677	5387	6682	2.3	33.0	254.6	27.6	166.9	11.7

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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: MITCHELL 5 E, NE US

GHCND:USC00255590

Elev: 4081 ft. Lat: 41.948° N Lon: 103.701° 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	0.11	2.0	0.4	0.0	0.0	0.00	0.06	0.14
2	0.30	2.1	0.7	-7777	0.0	0.01	0.14	0.51
3	0.44	4.3	1.6	0.2	0.0	0.28	0.42	0.63
4	1.38	7.1	3.9	0.6	0.2	0.93	1.32	1.62
5	2.53	10.3	5.4	1.5	0.7	1.49	2.05	3.52
6	2.51	9.4	5.5	1.5	0.5	1.19	2.17	3.65
7	1.82	6.3	3.7	1.1	0.3	1.11	1.56	2.38
8	1.33	6.3	3.2	0.5	0.2	0.69	1.16	1.83
9	1.12	6.1	3.4	0.5	0.1	0.54	1.03	1.58
10	0.85	4.9	2.1	0.4	-7777	0.42	0.68	1.07
11	0.46	3.7	1.5	0.2	0.1	0.07	0.25	0.66
12	0.20	2.5	0.4	0.0	0.0	0.04	0.15	0.35
Summary	13.05	65.0	31.8	6.5	2.1	6.77	10.99	17.94

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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: MITCHELL 5 E, NE US

GHCND:USC00255590
Elev: 4081 ft. Lat: 41.948° N Lon: 103.701° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	23	98	245	533	819	1032	947	630	289	65	14
45	3	5	43	146	388	669	877	792	485	177	28	3
50	-7777	-7777	14	74	255	520	722	637	345	91	10	-7777
55	0	-7777	3	30	146	376	567	483	221	36	2	-7777
60	0	-7777	-7777	9	68	242	414	333	118	10	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	20	36	98	189	333	508	654	603	404	221	73	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	36	134	379	912	1731	2763	3710	4340	4629	4694	4708
45	3	8	51	197	585	1254	2131	2923	3408	3585	3613	3616
50	-7777	-7777	14	88	343	863	1585	2222	2567	2658	2668	-7777
55	0	-7777	3	33	179	555	1122	1605	1826	1862	1864	-7777
60	0	-7777	-7777	9	77	319	733	1066	1184	1194	-7777	1194
Growing Degree Units for Corn (Monthly)												
50/86	20	56	154	343	676	1184	1838	2441	2845	3066	3139	3159

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

Station: **PILGER, NE US**

GHCND:USC00256735

Elev: 1407 ft. Lat: 42.007° N Lon: 97.056° 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	0.54	3.5	1.6	0.3	0.0	0.22	0.46	0.77
2	0.67	4.0	1.9	0.2	0.0	0.41	0.51	0.85
3	1.91	6.4	4.4	1.3	0.4	0.79	1.79	2.91
4	2.86	7.5	5.3	1.9	0.8	1.45	2.25	4.21
5	4.04	10.2	8.0	2.7	1.0	2.67	4.05	5.24
6	4.51	9.0	6.9	2.9	1.0	3.01	3.69	6.03
7	3.55	8.2	6.0	2.6	1.2	1.84	2.91	4.56
8	3.45	7.2	5.2	1.7	0.9	1.68	3.76	4.87
9	2.90	6.7	4.9	1.6	0.9	1.43	2.78	3.99
10	2.19	5.3	4.1	1.1	0.4	0.81	1.72	3.20
11	1.30	5.0	3.2	0.8	0.3	0.56	1.04	1.97
12	0.92	4.1	2.0	0.3	0.1	0.23	0.63	1.11
Summary	28.84	77.1	53.5	17.4	7.0	15.10	25.59	39.71

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

Station: **PILGER, NE US**

GHCND:USC00256735

Elev: 1407 ft. Lat: 42.007° N Lon: 97.056° 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	2.7	1.8	0.5	0.1	0.0	14.1	8.4	3.6	0.4	1.6	2.4	6.1
2	5.1	2.5	1.6	0.5	0.3	0.0	10.7	7.2	3.2	1.0	1.5	5.0	6.2
3	4.4	2.1	1.4	0.4	0.2	-7777	5.4	3.2	1.5	0.1	0.5	2.3	5.0
4	1.4	0.8	0.4	0.3	-7777	0.0	0.7	0.3	0.1	0.0	0.0	0.0	3.0
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	0.1	0.1	0.1	0.1	0.0	0.0	0.0
11	3.4	2.1	1.3	0.3	0.1	0.1	4.1	1.0	0.3	0.2	1.0	2.0	4.0
12	5.4	3.3	2.1	0.8	0.2	0.0	12.8	6.6	3.0	1.7	2.1	5.9	8.5
Summary	24.2	13.6	8.6	2.8	0.9	0.1	47.9	26.8	11.8	3.5	6.7	17.6	32.8

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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: **BERTRAND, NE US**

GHCND:USC00250810

Elev: 2520 ft. Lat: 40.528° N Lon: 99.635° 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	0.40	2.2	1.2	0.2	0.0	0.03	0.31	0.69
2	0.56	3.2	1.8	0.1	-7777	0.24	0.47	0.72
3	1.63	4.3	3.1	1.0	0.4	0.38	1.39	2.46
4	2.12	5.5	4.0	1.4	0.6	0.89	1.47	2.44
5	3.82	8.8	6.5	2.4	1.0	2.29	3.84	4.85
6	3.88	8.2	6.2	2.3	1.1	2.15	3.32	5.14
7	3.47	6.4	5.3	2.4	1.3	1.76	3.31	4.56
8	3.14	6.5	4.9	2.2	1.3	1.45	3.21	3.91
9	1.94	4.4	3.3	1.3	0.4	0.81	1.41	2.77
10	1.87	4.3	3.3	1.3	0.4	0.62	1.57	2.38
11	0.98	3.3	1.9	0.7	0.2	0.30	0.70	1.74
12	0.64	2.6	1.6	0.3	0.1	0.12	0.55	0.82
Summary	24.45	59.7	43.1	15.6	6.8	11.04	21.55	32.48

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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: **BERTRAND, NE US**

GHCND:USC00250810
 Elev: 2520 ft. Lat: 40.528° N Lon: 99.635° 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	1.3	1.2	0.6	0.3	-7777	@	@	@	@	0.0	4.0	5.0
2	5.5	1.7	1.6	0.8	0.4	0.1	@	@	@	@	0.0	4.5	9.0
3	3.6	0.8	0.8	0.5	0.2	0.1	@	@	@	@	0.0	0.0	5.0
4	0.9	0.2	0.2	0.1	0.1	-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
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	0.3	-7777	-7777	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	0.4	0.2	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	2.5	0.8	0.8	0.4	0.1	-7777	@	@	@	@	0.0	0.5	4.0
12	3.6	1.4	1.1	0.5	0.1	-7777	@	@	@	@	0.0	2.5	6.5
Summary	20.7	6.4	5.9	3.0	1.3	0.2	9999	9999	9999	9999	0.0	11.5	29.5

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

Station: **WELLFLEET, NE US**

GHCND:USC00259115

Elev: 2815 ft. Lat: 40.756° N Lon: 100.730° 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	0.40	3.4	1.2	0.2	0.0	0.17	0.28	0.55
2	0.59	3.8	1.8	0.3	-7777	0.17	0.36	0.74
3	1.22	5.7	3.3	0.6	0.2	0.56	0.98	1.69
4	2.35	7.7	4.9	1.6	0.6	1.21	2.31	3.17
5	3.48	10.5	6.7	2.2	0.8	1.70	2.89	4.71
6	3.91	9.0	6.2	2.9	1.1	2.93	3.75	4.80
7	2.89	7.7	5.3	1.9	0.9	1.85	2.56	3.71
8	2.78	6.6	4.4	1.7	0.8	1.31	2.17	4.29
9	1.88	5.6	3.6	1.4	0.4	0.76	1.85	2.52
10	1.67	6.1	3.4	1.2	0.3	0.99	1.62	2.00
11	0.87	3.9	2.0	0.4	0.2	0.32	0.68	1.46
12	0.47	3.1	1.2	0.3	-7777	0.07	0.29	0.67
Summary	22.51	73.1	44.0	14.7	5.3	12.04	19.74	30.31

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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: **MADRID, NE US**

GHCND:USC00255090

Elev: 3199 ft. Lat: 40.851° N Lon: 101.543° 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	39.1	12.9	26.0	5.7	4.0	4.6	-7777	0	0	0	0	0	899	961	1054	1209	0.0	0.0	6.4	8.7	30.6	4.2
2	43.3	16.1	29.7	6.4	5.0	5.3	-7777	0	0	0	0	0	708	764	848	988	0.0	0.0	9.6	6.2	27.1	2.6
3	52.5	23.8	38.2	4.2	3.0	3.4	3	1	-7777	-7777	-7777	0	525	586	678	832	0.0	0.0	18.8	3.1	26.3	0.6
4	62.3	32.8	47.6	4.7	2.6	3.3	37	26	13	3	1	-7777	260	309	387	527	0.0	0.3	24.3	0.5	14.0	0.0
5	72.6	45.3	59.0	3.9	2.2	2.8	183	144	95	37	9	4	61	84	127	224	0.0	1.4	30.4	0.0	1.4	0.0
6	83.2	55.1	69.1	4.0	2.3	3.0	429	372	289	166	75	49	5	7	15	42	0.5	7.3	29.9	0.0	0.0	0.0
7	90.0	60.7	75.4	3.0	1.8	2.2	631	569	476	324	183	134	-7777	-7777	-7777	4	2.3	16.1	31.0	0.0	0.0	0.0
8	87.7	58.4	73.1	3.4	2.2	2.6	560	498	407	260	131	89	-7777	1	3	10	1.0	13.0	31.0	0.0	0.0	0.0
9	79.1	47.6	63.3	3.5	2.1	2.6	278	230	165	79	26	14	28	40	64	128	0.1	4.5	29.6	0.0	0.9	0.0
10	65.6	34.3	50.0	3.9	2.2	2.6	48	31	14	2	-7777	-7777	205	250	326	469	0.0	0.2	27.3	0.3	11.4	0.0
11	50.0	22.4	36.2	5.6	3.3	4.2	2	1	-7777	0	0	0	566	625	714	864	0.0	0.0	15.3	3.0	26.4	0.5
12	39.4	13.1	26.3	5.8	4.8	5.1	0	0	0	0	0	0	891	953	1046	1201	0.0	0.0	6.7	8.0	30.7	3.6
Summary	63.7	35.2	49.5	4.5	3.0	3.5	2171	1872	1459	871	425	290	4148	4580	5262	6498	3.9	42.8	260.3	29.8	168.8	11.5

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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: **MADRID, NE US**

GHCND:USC00255090

Elev: 3199 ft. Lat: 40.851° N Lon: 101.543° 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	0.42	3.4	1.3	0.1	-7777	0.16	0.26	0.61
2	0.54	4.0	1.7	0.2	0.0	0.15	0.44	0.85
3	1.12	6.0	3.4	0.8	0.2	0.50	0.84	1.72
4	2.02	6.5	4.4	1.4	0.5	1.13	1.91	3.00
5	3.15	9.6	6.1	2.0	0.8	2.04	2.89	4.17
6	3.55	9.1	6.3	2.1	0.9	2.22	3.76	4.67
7	3.36	8.2	5.8	2.2	0.9	2.22	2.92	4.44
8	2.50	6.4	4.2	1.6	0.8	1.45	2.00	2.88
9	1.45	5.4	3.4	1.0	0.3	0.59	1.14	2.01
10	1.50	5.3	3.2	0.8	0.3	0.65	1.32	2.14
11	0.71	3.7	2.1	0.4	0.1	0.24	0.40	1.13
12	0.39	3.3	1.3	0.1	0.0	0.12	0.29	0.58
Summary	20.71	70.9	43.2	12.7	4.8	11.47	18.17	28.20

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Station: **MADRID, NE US**

GHCND:USC00255090

Elev: 3199 ft. Lat: 40.851° N Lon: 101.543° 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	3.0	2.3	0.6	0.2	0.1	@	@	@	@	1.6	4.0	10.0
2	5.3	3.2	2.6	0.6	0.1	0.0	@	@	@	@	2.0	3.1	7.4
3	6.9	3.4	2.7	0.8	0.3	-7777	@	@	@	@	2.5	6.0	11.0
4	3.0	1.3	1.2	0.5	0.2	0.1	@	@	@	@	0.0	1.0	4.0
5	-7777	-7777	-7777	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	0.2	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.2	0.7	0.5	0.2	0.1	0.0	@	@	@	@	0.0	0.0	1.0
11	4.7	2.1	1.8	0.4	0.3	-7777	@	@	@	@	1.7	3.0	5.5
12	6.0	2.7	2.1	0.8	0.2	-7777	@	@	@	@	2.5	4.5	9.9
Summary	32.9	16.5	13.3	3.9	1.4	0.2	9999	9999	9999	9999	10.3	21.6	48.8

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www.ncdc.noaa.gov

Station: **MADRID, NE US**

GHCND:USC00255090
Elev: 3199 ft. Lat: 40.851° N Lon: 101.543° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	24	100	267	588	874	1096	1024	701	334	74	8
45	2	6	43	163	437	725	941	869	554	213	32	1
50	-7777	1	14	85	299	576	786	714	411	115	9	-7777
55	-7777	-7777	3	37	183	429	631	560	278	48	2	0
60	0	0	-7777	13	95	289	476	407	165	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	41	111	207	363	549	701	655	446	255	84	22

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	32	132	399	987	1861	2957	3981	4682	5016	5090	5098
45	2	8	51	214	651	1376	2317	3186	3740	3953	3985	3986
50	-7777	1	15	100	399	975	1761	2475	2886	3001	3010	-7777
55	-7777	-7777	3	40	223	652	1283	1843	2121	2169	2171	2171
60	0	0	-7777	13	108	397	873	1280	1445	1459	-7777	1459
Growing Degree Units for Corn (Monthly)												
50/86	21	62	173	380	743	1292	1993	2648	3094	3349	3433	3455

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: VIRGINIA, NE US

GHCND:USC00258875
 Elev: 1545 ft. Lat: 40.244° N Lon: 96.498° 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	34.4	14.5	24.5	6.3	5.2	5.6	0	0	0	0	0	0	947	1009	1102	1257	0.0	0.0	4.0	13.2	29.9	4.7
2	39.4	18.2	28.8	6.9	5.8	6.1	1	-7777	-7777	-7777	0	0	734	790	874	1013	0.0	0.0	7.0	8.4	25.1	2.4
3	50.8	27.9	39.4	5.0	3.6	3.9	14	9	4	-7777	0	0	499	556	644	795	0.0	0.0	16.5	3.2	20.7	0.4
4	62.5	39.0	50.8	4.6	3.0	3.6	70	51	31	10	2	1	197	238	308	437	0.0	0.4	24.6	0.0	6.1	0.0
5	72.1	49.9	61.0	3.7	2.9	3.0	223	180	122	52	15	8	37	55	91	176	0.0	0.7	30.6	0.0	0.3	0.0
6	81.4	60.7	71.1	3.4	2.4	2.7	482	424	337	204	97	65	1	2	5	22	0.2	3.5	30.0	0.0	0.0	0.0
7	86.5	65.5	76.0	2.7	1.8	2.1	651	589	496	343	200	150	0	-7777	-7777	2	0.8	9.4	31.0	0.0	0.0	0.0
8	85.1	63.8	74.5	3.8	2.6	3.1	603	541	449	298	164	120	-7777	-7777	1	5	0.7	8.1	31.0	0.0	0.0	0.0
9	77.2	54.3	65.8	3.9	2.5	3.0	337	285	213	117	50	32	14	22	41	94	0.1	2.3	29.9	0.0	0.1	0.0
10	65.3	42.1	53.7	3.2	2.6	2.6	106	80	48	16	4	2	146	183	244	367	0.0	0.1	28.2	0.2	4.6	0.0
11	49.8	28.8	39.3	6.0	4.2	4.9	14	9	4	1	-7777	0	485	540	625	772	0.0	0.0	14.7	2.7	18.7	0.0
12	36.7	17.5	27.1	6.2	6.0	5.9	-7777	-7777	0	0	0	0	865	927	1020	1175	0.0	0.0	4.6	10.8	29.7	2.1
Summary	61.8	40.2	51.0	4.6	3.6	3.9	2501	2168	1704	1041	532	378	3925	4322	4955	6115	1.8	24.5	252.1	38.5	135.2	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: **VIRGINIA, NE US**

GHCND:USC00258875

Elev: 1545 ft. Lat: 40.244° N Lon: 96.498° 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	0.74	5.0	2.3	0.1	-7777	0.31	0.64	1.04
2	0.99	4.9	2.8	0.5	0.2	0.43	0.73	1.07
3	2.45	7.7	4.6	1.9	0.6	1.35	1.98	3.52
4	3.08	9.9	6.0	2.0	0.7	2.17	2.55	3.65
5	4.93	12.7	7.7	3.4	1.6	2.69	4.31	6.94
6	4.50	10.3	6.7	2.9	1.3	2.76	4.41	6.09
7	4.21	9.6	6.3	3.0	1.3	2.46	3.70	5.53
8	3.86	9.6	6.2	2.6	1.2	2.09	3.32	4.96
9	3.29	8.3	5.3	2.0	0.9	2.20	3.07	4.09
10	2.31	7.5	4.6	1.5	0.6	1.22	2.24	3.24
11	1.57	6.3	3.4	1.0	0.3	0.81	1.20	2.70
12	1.09	5.4	2.7	0.5	0.1	0.41	0.86	1.63
Summary	33.02	97.2	58.6	21.4	8.8	18.90	29.01	44.46

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Station: VIRGINIA, NE US

GHCND:USC00258875
 Elev: 1545 ft. Lat: 40.244° N Lon: 96.498° 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	3.6	2.0	0.5	-7777	0.0	12.4	6.2	2.1	0.1	1.5	3.4	7.4
2	5.3	3.0	1.7	0.7	0.1	-7777	11.6	6.3	3.0	0.9	2.2	5.5	7.2
3	3.7	2.1	1.3	0.4	0.2	0.0	4.6	2.0	1.1	0.2	0.7	2.2	5.6
4	1.0	0.4	0.3	0.1	0.1	0.0	0.7	0.3	0.2	-7777	0.0	0.0	0.1
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	0.3	0.2	0.1	-7777	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
11	2.1	1.6	0.7	0.2	-7777	0.0	2.5	0.8	0.1	0.0	0.1	1.0	3.1
12	5.0	3.4	1.8	0.5	0.2	0.0	11.1	5.7	2.1	0.5	1.4	4.3	8.4
Summary	22.4	14.4	8.0	2.5	0.6	0.0	43.2	21.4	8.6	1.7	5.9	16.4	31.8

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Station: VIRGINIA, NE US

GHCND:USC00258875

Elev: 1545 ft. Lat: 40.244° N Lon: 96.498° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	31	135	345	651	931	1116	1068	772	438	125	11
45	2	12	73	228	498	781	961	913	623	306	70	3
50	-7777	3	34	135	351	631	806	758	477	192	34	1
55	0	1	14	70	223	482	651	603	337	106	14	-7777
60	0	-7777	4	31	122	337	496	449	213	48	4	0
Growing Degree Units for Corn (Monthly)												
50/86	12	29	98	209	387	616	758	718	484	263	83	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	40	175	520	1171	2102	3218	4286	5058	5496	5621	5632
45	2	14	87	315	813	1594	2555	3468	4091	4397	4467	4470
50	-7777	3	37	172	523	1154	1960	2718	3195	3387	3421	3422
55	0	1	15	85	308	790	1441	2044	2381	2487	2501	-7777
60	0	-7777	4	35	157	494	990	1439	1652	1700	1704	1704
Growing Degree Units for Corn (Monthly)												
50/86	12	41	139	348	735	1351	2109	2827	3311	3574	3657	3668

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: **BROKEN BOW 2 W, NE US**

GHCND:USC00251200

Elev: 2500 ft. Lat: 41.408° N Lon: 99.675° 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	35.8	11.6	23.7	6.8	5.6	6.0	0	0	0	0	0	0	970	1032	1125	1280	0.0	0.0	5.5	11.5	30.8	5.6
2	39.3	15.1	27.2	6.8	5.5	5.9	-7777	-7777	-7777	0	0	0	778	834	918	1058	0.0	0.0	7.6	8.9	26.8	3.5
3	49.0	23.2	36.1	4.6	3.6	3.6	3	1	-7777	-7777	-7777	0	589	649	741	896	0.0	0.0	15.6	4.1	26.0	0.6
4	59.9	32.8	46.3	4.7	3.0	3.3	34	24	13	4	1	-7777	294	343	423	563	0.0	0.1	22.8	0.6	13.6	0.0
5	69.4	44.9	57.2	3.5	3.0	2.9	143	109	67	24	5	2	77	104	156	267	-7777	0.3	30.0	0.0	2.0	0.0
6	79.1	55.4	67.3	4.0	2.8	3.2	373	318	239	128	53	34	6	10	22	61	0.1	3.4	29.9	0.0	0.0	0.0
7	85.1	60.9	73.0	3.2	2.3	2.5	558	496	404	258	133	93	-7777	-7777	1	10	0.6	8.1	31.0	0.0	0.0	0.0
8	83.3	58.6	70.9	3.4	2.5	2.7	495	435	345	206	96	65	1	2	6	22	0.2	6.5	31.0	0.0	0.0	0.0
9	75.2	47.8	61.5	3.7	2.7	2.8	235	192	136	66	23	13	40	57	91	171	0.0	2.0	29.6	0.0	1.3	0.0
10	62.8	34.7	48.8	3.8	2.6	2.6	43	29	15	4	-7777	-7777	237	285	364	507	0.0	0.1	26.2	0.3	11.9	0.0
11	47.7	22.1	34.9	6.7	3.6	4.8	3	1	-7777	-7777	0	0	606	664	753	903	0.0	0.0	13.5	4.8	26.0	1.0
12	36.3	12.7	24.5	6.9	4.9	5.8	0	0	0	0	0	0	945	1007	1100	1255	0.0	0.0	5.1	11.3	30.7	4.6
Summary	60.2	35.0	47.6	4.8	3.5	3.8	1887	1605	1219	690	311	207	4543	4987	5700	6993	0.9	20.5	247.8	41.5	169.1	15.3

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **BROKEN BOW 2 W, NE US**

GHCND:USC00251200

Elev: 2500 ft. Lat: 41.408° N Lon: 99.675° 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	0.34	2.9	1.0	0.1	0.0	0.12	0.29	0.46
2	0.49	4.2	1.7	0.2	0.0	0.16	0.40	0.66
3	1.41	6.5	3.3	0.9	0.3	0.64	1.18	2.22
4	2.50	9.1	5.1	1.6	0.5	1.09	2.28	3.31
5	3.81	10.4	7.1	2.5	0.9	2.35	3.48	4.20
6	4.03	10.0	6.7	2.8	1.0	2.26	3.17	5.95
7	3.20	7.9	5.6	2.2	0.8	1.46	3.29	4.46
8	2.45	7.1	4.8	1.8	0.6	1.66	2.17	3.31
9	2.09	6.5	4.0	1.2	0.4	0.84	2.04	2.93
10	1.68	6.4	4.0	1.1	0.2	0.61	1.42	2.39
11	0.89	4.5	2.2	0.5	0.1	0.27	0.77	1.41
12	0.40	2.9	1.0	0.1	0.0	0.10	0.33	0.60
Summary	23.29	78.4	46.5	15.0	4.8	11.56	20.82	31.90

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Station: **BROKEN BOW 2 W, NE US**

GHCND:USC00251200
 Elev: 2500 ft. Lat: 41.408° N Lon: 99.675° 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	4.0	2.1	1.4	0.6	0.2	-7777	@	@	@	@	0.6	3.8	6.8
2	5.7	2.6	1.9	0.8	0.2	-7777	@	@	@	@	2.3	3.0	8.0
3	5.3	1.9	1.5	0.6	0.4	0.0	@	@	@	@	0.0	2.0	8.5
4	2.7	0.7	0.6	0.3	0.2	-7777	@	@	@	@	0.0	0.0	5.7
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	-7777	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.7	0.6	0.5	0.4	0.1	0.0	@	@	@	@	0.0	0.0	0.2
11	5.0	1.7	1.4	0.7	0.3	0.1	@	@	@	@	0.7	2.5	8.0
12	6.5	2.1	1.8	0.8	0.4	0.1	@	@	@	@	2.0	4.0	10.0
Summary	30.9	11.8	9.2	4.2	1.8	0.2	9999	9999	9999	9999	5.6	15.3	47.2

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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: **BROKEN BOW 2 W, NE US**

GHCND:USC00251200
Elev: 2500 ft. Lat: 41.408° N Lon: 99.675° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	19	80	239	533	817	1023	959	646	304	70	6
45	1	5	36	145	384	668	868	804	500	191	33	1
50	-7777	1	13	76	252	519	713	649	360	102	11	-7777
55	0	-7777	3	34	143	373	558	495	235	43	3	0
60	0	-7777	-7777	13	67	239	404	345	136	15	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	17	30	85	178	322	517	676	627	411	219	73	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	26	106	345	878	1695	2718	3677	4323	4627	4697	4703
45	1	6	42	187	571	1239	2107	2911	3411	3602	3635	3636
50	-7777	1	14	90	342	861	1574	2223	2583	2685	2696	-7777
55	0	-7777	3	37	180	553	1111	1606	1841	1884	1887	1887
60	0	-7777	-7777	13	80	319	723	1068	1204	1219	-7777	1219
Growing Degree Units for Corn (Monthly)												
50/86	17	47	132	310	632	1149	1825	2452	2863	3082	3155	3171

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: **LISCO, NE US**

GHCND:USC00254865
Elev: 3514 ft. Lat: 41.498° N Lon: 102.622° 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	2.1	1.4	0.2	0.1	0.11	0.25	0.79
2	0.55	2.2	1.5	0.1	0.1	0.16	0.31	0.86
3	1.07	3.5	2.7	0.6	0.3	0.40	0.76	1.84
4	1.95	5.1	4.1	1.5	0.5	0.83	1.66	2.88
5	2.89	7.8	5.8	1.8	0.6	1.79	2.71	3.36
6	3.03	8.0	6.1	2.4	0.6	1.99	2.86	3.97
7	2.20	6.3	5.0	1.3	0.5	1.46	1.84	2.85
8	1.98	5.2	4.2	1.6	0.3	1.12	1.94	2.81
9	1.67	4.5	3.6	1.0	0.2	0.90	1.52	2.17
10	1.21	4.2	3.4	0.8	0.1	0.53	1.10	1.77
11	0.63	2.1	1.4	0.4	-7777	0.20	0.48	0.89
12	0.63	2.2	1.6	0.3	0.2	0.11	0.39	0.89
Summary	18.37	53.2	40.8	12.0	3.5	9.60	15.82	25.08

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 151 Patton Avenue
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Station: **LISCO, NE US**

GHCND:USC00254865
 Elev: 3514 ft. Lat: 41.498° N Lon: 102.622° 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	1.6	0.6	0.1	-7777	@	@	@	@	0.0	3.5	6.0
2	4.7	1.9	1.9	0.8	0.2	-7777	@	@	@	@	1.5	3.2	8.2
3	5.2	1.9	1.8	0.7	0.3	0.0	@	@	@	@	1.0	4.0	7.5
4	3.1	0.9	0.9	0.4	0.2	-7777	@	@	@	@	0.0	2.0	4.3
5	0.1	-7777	-7777	-7777	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	0.4	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.0	0.5	0.5	0.1	-7777	0.0	@	@	@	@	0.0	0.0	1.0
11	3.9	1.3	1.1	0.5	0.3	0.1	@	@	@	@	0.5	2.3	6.3
12	5.3	2.1	1.8	0.7	0.3	0.1	@	@	@	@	1.0	4.0	8.0
Summary	27.8	10.7	9.7	3.8	1.4	0.2	9999	9999	9999	9999	4.0	19.0	41.3

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1981-2010**

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

Station: **UPLAND, NE US**

GHCND:USC00258735

Elev: 2287 ft. Lat: 40.344° N Lon: 98.866° 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	0.52	2.3	1.5	0.2	0.0	0.25	0.46	0.84
2	0.67	2.5	1.8	0.4	0.0	0.21	0.69	0.89
3	1.93	5.0	3.7	1.3	0.4	0.55	1.87	2.22
4	2.19	5.9	4.4	1.5	0.4	1.34	1.91	3.00
5	4.56	8.8	7.0	3.5	1.2	2.83	4.61	5.83
6	3.54	7.7	5.6	2.5	1.0	2.07	3.93	4.99
7	3.58	6.0	4.7	2.6	1.2	1.32	2.97	5.22
8	3.14	6.5	5.3	2.1	0.8	1.77	3.45	3.98
9	2.21	4.7	3.8	1.3	0.5	1.02	1.56	2.84
10	2.05	4.5	3.4	1.5	0.5	0.85	1.78	2.75
11	1.24	3.7	2.6	0.8	0.3	0.40	0.74	2.29
12	0.60	2.3	1.4	0.4	0.1	0.09	0.38	0.85
Summary	26.23	59.9	45.2	18.1	6.4	12.70	24.35	35.70

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Station: **UPLAND, NE US**

GHCND:USC00258735

Elev: 2287 ft. Lat: 40.344° N Lon: 98.866° 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	1.9	1.8	0.7	0.2	0.0	11.3	6.2	3.0	0.1	1.0	3.0	6.0
2	5.2	2.0	1.8	0.8	0.3	-7777	8.9	4.8	2.8	0.3	2.0	4.0	8.0
3	3.2	1.1	1.1	0.5	0.3	0.1	3.4	1.9	1.3	0.4	0.0	2.0	4.0
4	1.1	0.4	0.4	0.1	0.1	0.0	0.7	0.3	0.1	0.0	0.0	0.0	0.5
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	0.7	0.1	0.1	-7777	-7777	-7777	0.3	0.1	0.1	0.1	0.0	0.0	0.0
11	2.2	0.8	0.7	0.3	0.1	0.0	2.0	0.7	0.4	0.1	0.0	0.0	3.5
12	4.1	1.9	1.7	0.6	0.1	-7777	9.2	5.3	2.6	0.9	0.0	3.0	6.0
Summary	20.6	8.2	7.6	3.0	1.1	0.1	35.8	19.3	10.3	1.9	3.0	12.0	28.0

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

Station: **MC COOK NUMBER 2, NE US**

GHCND:USC00255312

Elev: 2579 ft. Lat: 40.216° N Lon: 100.630° 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	2.2	0.7	0.0	0.0	0.12	0.25	0.46
2	0.50	3.1	1.7	0.1	0.0	0.15	0.40	0.70
3	1.19	3.9	2.1	0.7	0.2	0.29	0.97	1.61
4	2.13	6.9	4.2	1.5	0.5	1.16	1.59	2.90
5	3.45	7.1	4.3	1.4	0.6	1.71	2.83	4.67
6	3.31	8.4	5.5	2.3	1.0	1.96	3.08	4.62
7	3.11	8.2	5.4	2.1	0.5	1.89	2.75	3.87
8	3.02	6.9	5.1	2.5	0.9	1.88	3.03	4.16
9	1.43	4.9	2.9	1.1	0.5	0.56	1.12	2.15
10	1.72	5.0	3.4	1.5	0.5	0.83	1.42	2.37
11	0.84	2.3	1.4	0.5	0.1	0.31	0.51	1.36
12	0.33	2.1	0.9	0.1	0.1	0.09	0.22	0.48
Summary	21.38	61.0	37.6	13.8	4.9	10.95	18.17	29.35

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Station: **MC COOK NUMBER 2, NE US**

GHCND:USC00255312
Elev: 2579 ft. Lat: 40.216° N Lon: 100.630° 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	0.4	0.0	0.0	7.8	4.6	2.1	0.7	1.0	2.4	4.0
2	4.6	2.3	1.7	0.7	0.1	0.0	6.9	3.7	1.5	0.0	1.5	4.4	7.0
3	3.0	1.1	1.0	0.6	0.1	0.0	1.9	0.9	0.3	0.0	0.0	1.5	5.8
4	1.3	0.7	0.5	0.1	0.0	0.0	0.6	0.1	0.1	0.0	0.0	0.0	3.0
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	1.5	0.5	0.4	0.2	0.1	0.0	0.6	0.2	0.1	0.0	0.0	0.0	0.0
11	1.5	0.8	0.7	0.1	0.0	0.0	2.2	1.2	0.4	0.0	0.0	1.2	2.0
12	3.0	1.7	1.1	0.5	0.1	0.0	5.5	2.6	1.3	0.1	0.7	1.3	3.7
Summary	17.9	8.8	6.6	2.6	0.4	0.0	25.5	13.3	5.8	0.8	3.2	10.8	25.5

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-4444: year-round risk of frost-freeze

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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: COMSTOCK, NE US

GHCND:USC00251835
 Elev: 2254 ft. Lat: 41.557° N Lon: 99.237° 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	10.9	24.0	6.8	4.8	5.6	0	0	0	0	0	0	959	1021	1114	1269	0.0	0.0	6.7	11.3	30.9	5.5
2	40.4	13.7	27.1	7.2	6.0	6.4	-7777	-7777	-7777	0	0	0	782	838	922	1062	0.0	0.0	8.3	8.2	27.3	3.4
3	51.3	23.5	37.4	4.9	3.5	3.8	5	2	1	-7777	-7777	0	551	610	701	856	0.0	0.0	16.6	3.3	25.1	1.0
4	62.8	33.4	48.1	3.8	2.8	3.0	39	26	14	4	-7777	-7777	246	293	371	511	0.0	0.3	24.8	0.0	12.1	0.0
5	72.6	44.9	58.7	3.5	2.7	2.8	174	136	89	35	8	4	58	82	128	229	0.0	1.2	30.6	0.0	1.8	0.0
6	83.0	55.5	69.2	3.9	3.0	3.2	431	374	291	168	77	53	4	7	14	41	0.7	6.0	29.9	0.0	0.0	0.0
7	89.1	61.2	75.1	3.2	2.2	2.3	624	562	470	320	183	138	-7777	-7777	1	6	2.9	14.6	31.0	0.0	0.0	0.0
8	87.6	59.3	73.4	3.3	2.5	2.7	572	511	421	273	141	100	1	2	4	11	2.0	11.4	31.0	0.0	0.0	0.0
9	78.8	47.2	63.0	3.4	2.6	2.7	269	223	162	83	29	16	29	43	72	143	0.1	4.7	29.7	0.0	1.3	0.0
10	65.4	34.4	49.9	3.7	2.4	2.5	51	34	17	4	-7777	-7777	209	254	330	472	0.0	0.6	27.7	0.2	11.0	0.0
11	50.6	22.5	36.6	5.9	3.5	4.3	4	2	-7777	0	0	0	558	615	704	854	0.0	0.0	15.6	3.3	25.1	0.6
12	38.4	12.1	25.2	7.3	5.3	6.1	-7777	0	0	0	0	0	921	983	1076	1232	0.0	0.0	6.6	9.4	30.9	4.2
Summary	63.1	34.9	49.0	4.7	3.4	3.8	2169	1870	1465	887	438	311	4318	4748	5437	6686	5.7	38.8	258.5	35.7	165.5	14.7

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-4444: year-round risk of frost-freeze

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**Summary of
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Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **COMSTOCK, NE US**

GHCND:USC00251835

Elev: 2254 ft. Lat: 41.557° N Lon: 99.237° 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	0.47	2.9	1.4	0.2	0.0	0.17	0.41	0.64
2	0.69	3.5	1.6	0.3	0.0	0.13	0.74	0.97
3	1.49	5.7	3.4	0.7	0.2	0.63	1.28	2.07
4	2.73	8.9	5.6	1.6	0.6	1.72	2.35	3.76
5	3.87	9.7	7.4	3.0	0.8	2.48	3.71	4.60
6	3.43	8.6	6.4	2.3	1.0	2.16	2.82	4.14
7	2.52	7.1	5.0	1.8	0.6	1.55	2.28	3.63
8	3.17	7.0	4.9	2.0	1.0	1.58	2.98	4.70
9	2.29	6.4	4.0	1.6	0.4	1.11	2.04	3.33
10	2.00	5.3	3.7	1.1	0.4	0.83	1.50	3.35
11	1.18	4.9	3.3	1.1	0.3	0.28	1.17	1.80
12	0.64	2.9	1.6	0.3	0.2	0.20	0.42	0.71
Summary	24.48	72.9	48.3	16.0	5.5	12.84	21.70	33.70

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Station: **COMSTOCK, NE US**

GHCND:USC00251835
 Elev: 2254 ft. Lat: 41.557° N Lon: 99.237° 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	2.4	1.8	0.4	0.2	0.1	@	@	@	@	2.3	3.5	7.5
2	4.1	2.4	1.9	0.6	0.3	0.0	@	@	@	@	1.0	3.0	6.0
3	4.4	2.3	1.9	0.4	0.1	0.0	@	@	@	@	1.0	4.8	7.1
4	2.8	0.9	0.9	0.4	0.1	0.0	@	@	@	@	0.0	0.0	6.0
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	0.8	0.3	0.3	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	4.5	2.3	1.5	0.7	0.2	0.1	@	@	@	@	2.0	3.3	4.9
12	6.1	2.5	1.8	0.8	0.4	0.1	@	@	@	@	1.8	4.0	10.8
Summary	28.1	13.1	10.1	3.4	1.4	0.3	9999	9999	9999	9999	8.1	18.6	42.3

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Station: **COMSTOCK, NE US**

GHCND:USC00251835
Elev: 2254 ft. Lat: 41.557° N Lon: 99.237° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	19	103	274	582	877	1089	1037	691	335	88	5
45	2	5	50	168	431	727	934	882	544	212	42	1
50	-7777	1	19	89	291	578	779	727	401	114	16	-7777
55	0	-7777	5	39	174	431	624	572	269	51	4	-7777
60	0	-7777	1	14	89	291	470	421	162	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	22	36	103	208	368	560	705	670	445	252	95	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	26	129	403	985	1862	2951	3988	4679	5014	5102	5107
45	2	7	57	225	656	1383	2317	3199	3743	3955	3997	3998
50	-7777	1	20	109	400	978	1757	2484	2885	2999	3015	-7777
55	0	-7777	5	44	218	649	1273	1845	2114	2165	2169	-7777
60	0	-7777	1	15	104	395	865	1286	1448	1465	-7777	1465
Growing Degree Units for Corn (Monthly)												
50/86	22	58	161	369	737	1297	2002	2672	3117	3369	3464	3484

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: **MCCOOK, NE US**

GHCND:USC00255311
Elev: 2746 ft. Lat: 40.439° N Lon: 100.696° 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	0.30	2.2	1.1	0.1	0.0	0.06	0.20	0.46
2	0.45	2.9	1.6	0.1	0.0	0.10	0.36	0.62
3	1.16	4.3	2.9	0.7	0.2	0.31	0.83	1.71
4	2.21	6.2	4.3	1.4	0.7	1.21	1.95	3.09
5	3.12	8.7	6.5	1.9	0.7	1.29	2.91	4.54
6	3.59	8.1	5.8	2.6	1.0	2.22	3.54	4.28
7	3.00	7.4	5.7	2.0	0.9	1.53	2.76	3.50
8	2.65	5.9	4.3	1.9	0.8	1.45	2.21	3.65
9	1.51	4.3	3.2	1.1	0.3	0.67	1.53	1.97
10	1.75	5.0	3.6	1.2	0.4	0.60	1.48	2.67
11	0.66	3.0	1.8	0.4	-7777	0.23	0.39	1.15
12	0.46	2.0	0.9	0.1	0.1	0.03	0.17	0.50
Summary	20.86	60.0	41.7	13.5	5.1	9.70	18.33	28.14

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Station: **MCCOOK, NE US**

GHCND:USC00255311
 Elev: 2746 ft. Lat: 40.439° N Lon: 100.696° 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	4.0	1.6	1.5	0.6	0.2	-7777	@	@	@	@	1.0	3.7	5.0
2	5.0	2.3	2.3	0.7	0.2	0.0	@	@	@	@	2.0	4.0	8.0
3	4.6	1.8	1.8	0.6	0.2	0.0	@	@	@	@	1.0	3.0	7.0
4	3.2	1.2	1.2	0.5	0.1	-7777	@	@	@	@	0.0	1.0	6.0
5	0.1	-7777	-7777	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	0.2	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.8	0.5	0.5	0.3	0.1	-7777	@	@	@	@	0.0	0.0	0.0
11	2.8	1.3	1.2	0.4	0.0	0.0	@	@	@	@	1.0	2.0	4.0
12	3.8	1.8	1.8	0.6	0.1	-7777	@	@	@	@	1.0	3.0	5.5
Summary	25.5	10.6	10.4	3.7	0.9	0.0	9999	9999	9999	9999	6.0	16.7	35.5

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www.ncdc.noaa.gov

Station: **NE NEBRASKA EXPERIMENTAL STATION, NE US**

GHCND:USC00256018
Elev: 1460 ft. Lat: 42.380° N Lon: 96.958° 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	30.3	8.6	19.5	6.5	6.5	6.3	0	0	0	0	0	0	1102	1164	1257	1412	0.0	0.0	2.3	16.5	30.6	8.3
2	34.8	13.2	24.0	6.9	6.5	6.5	-7777	-7777	-7777	0	0	0	868	924	1008	1148	0.0	0.0	4.4	11.7	27.2	5.4
3	45.8	22.6	34.2	5.7	3.6	4.3	2	1	-7777	-7777	-7777	-7777	647	708	800	955	0.0	0.1	12.0	5.6	25.8	0.9
4	60.4	33.9	47.1	4.9	3.0	3.5	46	35	22	8	2	1	282	330	407	544	0.0	0.6	22.8	0.4	12.7	0.0
5	71.2	46.2	58.7	3.6	3.1	3.1	176	138	89	35	9	4	62	85	129	230	0.0	1.2	30.4	0.0	1.3	0.0
6	80.9	57.2	69.1	3.4	2.6	2.8	425	367	285	162	71	47	3	6	13	40	0.2	3.4	30.0	0.0	0.0	0.0
7	85.0	61.1	73.1	3.1	2.1	2.4	559	497	405	256	130	91	-7777	-7777	-7777	7	0.4	7.4	31.0	0.0	0.0	0.0
8	82.9	58.6	70.8	3.2	2.7	2.8	489	427	338	202	94	63	1	1	5	24	0.3	5.5	31.0	0.0	0.0	0.0
9	75.6	48.1	61.9	3.8	2.1	2.7	241	197	139	67	23	13	36	52	83	162	0.1	2.1	29.6	0.0	1.4	0.0
10	63.0	35.7	49.3	4.0	2.6	2.8	49	34	18	6	1	1	225	271	348	491	0.0	0.1	26.7	0.2	10.6	0.0
11	46.0	22.6	34.3	6.4	4.1	4.9	2	1	-7777	-7777	0	0	623	682	771	921	0.0	0.0	11.9	4.0	25.4	0.7
12	32.9	11.7	22.3	6.8	6.0	6.3	0	0	0	0	0	0	1013	1075	1168	1323	0.0	0.0	2.2	13.6	30.8	5.6
Summary	59.1	35.0	47.0	4.9	3.7	4.0	1989	1697	1296	736	330	220	4862	5298	5989	7257	1.0	20.4	234.3	52.0	165.8	20.9

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Station: **NE NEBRASKA EXPERIMENTAL STATION, NE US**

GHCND:USC00256018

Elev: 1460 ft. Lat: 42.380° N Lon: 96.958° 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	0.70	4.9	1.4	0.5	0.1	0.30	0.70	0.92
2	0.72	3.9	2.1	0.4	0.1	0.37	0.57	1.06
3	1.96	6.7	4.7	1.5	0.4	1.12	1.70	2.51
4	3.27	9.7	6.7	1.8	0.8	1.87	3.13	4.54
5	4.22	11.0	8.0	2.8	1.2	2.80	3.60	5.51
6	5.04	9.8	6.3	2.6	1.4	3.64	5.04	6.39
7	3.03	9.0	5.6	2.3	0.8	1.65	2.64	3.93
8	2.94	7.1	4.9	1.7	0.6	1.37	2.62	3.82
9	3.02	8.1	5.1	2.2	0.6	1.43	3.48	4.11
10	2.35	6.4	3.9	1.5	0.6	1.10	1.70	3.53
11	1.63	5.8	3.6	1.3	0.3	0.96	1.42	2.22
12	0.84	4.4	2.2	0.3	0.1	0.33	0.76	1.08
Summary	29.72	86.8	54.5	18.9	7.0	16.94	27.36	39.62

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **NE NEBRASKA EXPERIMENTAL STATION, NE US**

GHCND:USC00256018
Elev: 1460 ft. Lat: 42.380° N Lon: 96.958° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	11	65	258	580	871	1024	953	657	317	61	4
45	1	3	27	160	430	721	869	798	510	200	28	-7777
50	-7777	-7777	9	89	292	572	714	643	369	109	9	-7777
55	0	-7777	2	46	176	425	559	489	241	49	2	0
60	0	-7777	-7777	22	89	285	405	338	139	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	7	15	62	183	353	561	680	625	417	218	53	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	15	80	338	918	1789	2813	3766	4423	4740	4801	4805
45	1	4	31	191	621	1342	2211	3009	3519	3719	3747	-7777
50	-7777	-7777	9	98	390	962	1676	2319	2688	2797	2806	-7777
55	0	-7777	2	48	224	649	1208	1697	1938	1987	1989	1989
60	0	-7777	-7777	22	111	396	801	1139	1278	1296	-7777	1296
Growing Degree Units for Corn (Monthly)												
50/86	7	22	84	267	620	1181	1861	2486	2903	3121	3174	3181

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: **TEKAMAH, NE US**

GHCND:USC00258480

Elev: 1142 ft. Lat: 41.777° N Lon: 96.233° 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	30.2	11.8	21.0	6.8	6.3	6.4	0	0	0	0	0	0	1054	1116	1209	1364	0.0	0.0	2.4	16.8	30.1	6.4
2	34.8	15.5	25.1	6.8	6.0	6.2	-7777	-7777	-7777	-7777	0	0	836	892	976	1116	0.0	0.0	4.4	11.7	26.3	3.8
3	47.2	25.7	36.4	5.4	3.2	4.0	7	4	2	-7777	-7777	-7777	582	641	732	885	0.0	0.0	12.8	4.2	23.4	0.6
4	61.1	36.8	49.0	4.9	3.1	3.7	58	42	26	10	2	1	239	284	358	491	0.0	0.5	23.6	0.1	8.6	0.0
5	71.9	49.7	60.8	3.7	3.2	3.2	222	179	123	54	16	9	43	61	98	184	0.0	0.9	30.5	0.0	0.3	0.0
6	81.5	59.8	70.6	3.1	2.3	2.6	470	412	326	195	91	61	1	2	7	26	0.1	4.0	30.0	0.0	0.0	0.0
7	85.3	64.0	74.7	2.9	2.0	2.3	609	547	454	303	163	117	-7777	-7777	-7777	4	0.4	7.6	31.0	0.0	0.0	0.0
8	83.2	61.1	72.2	3.3	2.6	2.8	532	470	378	234	114	78	-7777	-7777	2	13	0.2	4.9	31.0	0.0	0.0	0.0
9	76.1	50.9	63.5	3.7	2.6	2.9	279	231	166	81	30	18	24	36	61	126	-7777	1.8	29.7	0.0	0.2	0.0
10	63.2	39.0	51.1	3.6	2.9	2.9	69	49	28	9	2	1	190	232	303	440	0.0	0.2	27.0	0.2	6.9	0.0
11	46.6	26.5	36.6	6.4	4.3	5.1	6	3	1	-7777	0	0	559	617	705	854	0.0	0.0	12.3	4.2	22.4	0.4
12	32.0	15.1	23.6	6.7	6.4	6.4	0	-7777	0	0	0	0	975	1037	1130	1285	0.0	0.0	2.6	14.5	29.9	3.9
Summary	59.4	38.0	48.7	4.8	3.7	4.0	2252	1937	1504	886	418	285	4503	4918	5581	6788	0.7	19.9	237.3	51.7	148.1	15.1

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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: **TEKAMAH, NE US**

GHCND:USC00258480

Elev: 1142 ft. Lat: 41.777° N Lon: 96.233° 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	0.64	3.7	2.3	0.3	0.0	0.28	0.59	0.96
2	0.75	4.1	2.2	0.3	0.1	0.36	0.72	1.00
3	2.10	6.6	4.4	1.3	0.4	1.03	1.78	3.05
4	3.44	9.4	6.6	2.5	0.8	1.81	3.32	4.44
5	4.34	11.3	7.8	3.1	1.0	2.71	4.01	5.85
6	4.38	10.0	7.1	3.1	1.4	2.67	3.92	5.27
7	3.36	8.9	6.4	2.4	0.8	1.98	3.23	4.24
8	3.56	7.7	5.1	2.2	1.0	1.33	2.77	5.38
9	3.32	7.2	5.3	2.2	1.0	1.74	3.33	4.61
10	2.19	6.5	4.2	1.5	0.6	0.71	1.70	3.64
11	1.54	5.1	3.6	1.1	0.3	0.82	1.29	2.22
12	0.95	4.4	2.5	0.3	0.1	0.41	0.84	0.99
Summary	30.57	84.9	57.5	20.3	7.5	15.85	27.50	41.65

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Station: **TEKAMAH, NE US**

GHCND:USC00258480

Elev: 1142 ft. Lat: 41.777° N Lon: 96.233° 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	2.7	2.0	0.7	0.2	0.0	13.1	8.7	3.8	1.5	0.8	5.0	6.2
2	6.3	2.8	2.1	0.9	0.2	-7777	10.3	7.8	4.3	1.5	3.9	6.0	8.1
3	4.4	1.6	1.2	0.6	0.3	0.0	4.7	2.3	1.6	0.2	0.0	4.0	8.0
4	1.2	0.3	0.3	0.2	0.2	-7777	0.5	0.4	0.3	-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	0.4	0.2	0.1	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
11	2.3	1.3	0.9	0.2	0.1	-7777	1.0	0.2	0.1	0.0	0.0	1.0	2.5
12	5.2	2.8	2.1	0.8	0.2	-7777	10.0	5.9	3.7	0.9	2.6	5.0	9.0
Summary	24.7	11.7	8.7	3.5	1.2	0.0	39.7	25.3	13.8	4.1	7.3	21.0	33.8

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

Station: **TEKAMAH, NE US**

GHCND:USC00258480

Elev: 1142 ft. Lat: 41.777° N Lon: 96.233° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	14	92	301	645	920	1074	997	705	363	84	5
45	1	4	47	194	493	769	919	841	557	239	42	1
50	-7777	1	20	112	348	619	764	686	413	139	18	-7777
55	0	-7777	7	58	222	470	609	532	279	69	6	0
60	0	-7777	2	26	123	326	454	378	166	28	1	0
Growing Degree Units for Corn (Monthly)												
50/86	6	15	71	193	382	603	728	663	439	225	60	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	111	412	1057	1977	3051	4048	4753	5116	5200	5205
45	1	5	52	246	739	1508	2427	3268	3825	4064	4106	4107
50	-7777	1	21	133	481	1100	1864	2550	2963	3102	3120	-7777
55	0	-7777	7	65	287	757	1366	1898	2177	2246	2252	2252
60	0	-7777	2	28	151	477	931	1309	1475	1503	1504	1504
Growing Degree Units for Corn (Monthly)												
50/86	6	21	92	285	667	1270	1998	2661	3100	3325	3385	3391

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: **COLUMBUS 3 NE, NE US**

GHCND:USC00251825
Elev: 1450 ft. Lat: 41.464° N Lon: 97.328° 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	32.6	13.6	23.1	6.6	5.4	5.9	0	0	0	0	0	0	989	1051	1144	1299	0.0	0.0	3.1	14.4	30.5	5.0
2	36.9	17.8	27.3	6.5	5.6	5.9	-7777	-7777	-7777	-7777	0	0	774	830	914	1054	0.0	0.0	5.1	10.1	25.8	2.5
3	49.1	27.7	38.4	5.3	3.5	4.1	9	6	2	-7777	-7777	-7777	524	582	672	825	0.0	-7777	14.7	3.4	21.1	0.3
4	62.4	39.1	50.7	4.5	3.0	3.5	71	53	33	13	4	2	199	240	310	440	0.0	0.5	25.0	0.2	6.6	0.0
5	73.1	51.0	62.1	3.7	2.7	3.0	248	201	140	64	22	13	29	45	77	155	0.0	1.3	30.7	0.0	0.1	0.0
6	83.1	61.0	72.1	3.4	2.7	2.9	512	453	366	231	119	84	1	1	5	19	0.4	6.2	30.0	0.0	0.0	0.0
7	87.5	65.8	76.6	3.4	2.1	2.6	671	609	516	363	218	166	0	-7777	-7777	2	1.1	11.7	31.0	0.0	0.0	0.0
8	84.9	63.6	74.2	3.4	2.5	2.8	597	535	443	294	161	117	-7777	-7777	1	7	0.6	7.8	31.0	0.0	0.0	0.0
9	76.9	53.7	65.3	3.4	2.4	2.7	326	275	205	110	47	31	17	26	46	101	0.0	2.4	29.7	0.0	0.2	0.0
10	63.1	40.9	52.0	3.4	2.6	2.7	77	55	32	10	3	1	170	210	280	413	0.0	0.2	26.8	0.3	5.3	0.0
11	46.7	27.3	37.0	6.1	4.3	5.0	5	3	1	-7777	0	0	545	603	691	840	0.0	0.0	12.2	4.0	20.8	0.3
12	33.9	16.0	24.9	6.5	6.1	6.2	0	0	0	0	0	0	931	993	1086	1241	0.0	0.0	2.9	12.7	29.8	3.0
Summary	60.9	39.8	50.3	4.7	3.6	3.9	2516	2190	1738	1085	574	414	4179	4581	5226	6396	2.1	30.1	242.2	45.1	140.2	11.1

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-4444: year-round risk of frost-freeze

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

Station: **COLUMBUS 3 NE, NE US**

GHCND:USC00251825

Elev: 1450 ft. Lat: 41.464° N Lon: 97.328° 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	0.57	4.5	1.6	0.2	0.0	0.30	0.61	0.75
2	0.72	5.1	2.3	0.3	0.1	0.29	0.70	1.02
3	1.88	7.1	4.3	1.2	0.3	0.93	1.54	2.69
4	2.73	8.1	5.3	1.9	0.7	1.24	2.65	3.92
5	4.38	11.5	7.9	2.9	1.4	2.80	4.24	5.60
6	4.78	10.8	7.3	3.3	1.3	2.69	4.40	5.91
7	3.52	8.5	5.8	2.6	0.8	1.89	3.07	4.59
8	3.33	8.4	5.1	2.0	0.8	1.34	2.16	3.90
9	2.81	7.5	4.8	1.7	0.9	1.12	2.77	4.08
10	2.19	7.1	4.7	1.5	0.4	1.05	1.85	3.13
11	1.45	5.2	3.0	0.8	0.3	0.57	1.25	2.11
12	0.83	5.8	2.3	0.3	0.1	0.32	0.58	1.09
Summary	29.19	89.6	54.4	18.7	7.1	14.54	25.82	38.79

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 www.ncdc.noaa.gov

Station: COLUMBUS 3 NE, NE US

GHCND:USC00251825
 Elev: 1450 ft. Lat: 41.464° N Lon: 97.328° 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	1.9	0.7	0.2	0.0	14.6	8.9	5.0	1.7	2.8	5.8	9.0
2	5.6	3.2	2.4	0.5	0.2	-7777	11.6	6.7	4.1	1.2	1.5	5.5	8.5
3	4.2	1.6	1.3	0.5	0.4	0.0	4.1	2.0	1.0	0.1	0.2	1.5	7.0
4	1.1	0.5	0.4	0.2	0.1	0.0	0.6	0.2	-7777	0.0	0.0	0.0	0.5
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	0.7	0.3	0.3	0.1	-7777	0.0	0.2	0.1	-7777	-7777	0.0	0.0	0.0
11	2.8	1.6	1.3	0.3	0.1	-7777	2.7	1.0	0.5	0.3	0.0	1.0	4.5
12	6.2	3.5	2.2	0.8	0.2	-7777	11.5	6.7	5.0	1.9	1.0	4.4	8.3
Summary	26.2	13.9	9.8	3.1	1.2	0.0	45.3	25.6	15.6	5.2	5.5	18.2	37.8

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 -6666: parameter undefined; insufficient occurrences to compute value
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Station: COLUMBUS 3 NE, NE US

GHCND:USC00251825
Elev: 1450 ft. Lat: 41.464° N Lon: 97.328° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	113	343	684	961	1136	1061	759	388	87	5
45	1	6	58	225	530	811	981	907	610	260	43	1
50	-7777	1	25	133	381	661	826	752	465	154	17	-7777
55	0	-7777	9	71	248	512	671	597	326	77	5	0
60	0	-7777	2	33	140	366	516	443	205	32	1	0
Growing Degree Units for Corn (Monthly)												
50/86	9	18	83	210	409	634	768	714	476	228	57	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	24	137	480	1164	2125	3261	4322	5081	5469	5556	5561
45	1	7	65	290	820	1631	2612	3519	4129	4389	4432	4433
50	-7777	1	26	159	540	1201	2027	2779	3244	3398	3415	-7777
55	0	-7777	9	80	328	840	1511	2108	2434	2511	2516	2516
60	0	-7777	2	35	175	541	1057	1500	1705	1737	1738	1738
Growing Degree Units for Corn (Monthly)												
50/86	9	27	110	320	729	1363	2131	2845	3321	3549	3606	3612

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **HEBRON, NE US**

GHCND:USC00253735

Elev: 1480 ft. Lat: 40.175° N Lon: 97.590° 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	14.6	25.6	6.4	5.0	5.5	0	0	0	0	0	0	911	973	1066	1221	0.0	0.0	5.5	11.5	30.1	3.9
2	41.4	17.7	29.6	6.9	5.6	6.0	-7777	-7777	-7777	0	0	0	713	769	852	992	0.0	0.0	8.2	7.2	25.8	2.3
3	52.8	27.4	40.1	4.7	3.9	4.0	14	9	4	1	-7777	0	476	533	621	773	0.0	-7777	17.4	2.1	21.0	0.3
4	64.4	37.7	51.0	4.6	3.4	3.8	75	56	34	12	3	1	193	234	302	430	0.0	0.5	25.4	0.0	8.5	0.0
5	73.7	49.6	61.7	3.4	2.8	2.9	238	193	133	59	18	10	32	48	82	162	0.0	1.0	30.8	0.0	0.5	0.0
6	83.9	60.1	72.0	3.4	2.6	2.9	511	452	365	230	119	84	1	2	5	20	0.4	6.7	30.0	0.0	0.0	0.0
7	89.1	65.1	77.1	3.3	2.1	2.4	685	623	530	377	233	182	0	0	-7777	2	2.3	14.7	31.0	0.0	0.0	0.0
8	87.4	63.0	75.2	3.9	2.8	3.2	626	564	472	322	187	142	-7777	-7777	1	6	2.1	11.2	31.0	0.0	0.0	0.0
9	79.2	52.6	65.9	3.5	2.9	3.0	344	292	221	123	55	37	17	25	44	96	0.2	4.0	29.8	0.0	0.3	0.0
10	66.7	39.9	53.3	3.4	2.6	2.7	94	68	40	13	3	1	146	183	247	376	0.0	0.3	28.5	-7777	6.2	0.0
11	51.6	27.3	39.4	5.9	3.8	4.5	9	6	3	1	-7777	0	476	532	619	767	0.0	0.0	16.6	2.1	21.2	0.1
12	38.5	17.2	27.9	6.5	5.8	6.0	-7777	-7777	0	0	0	0	842	904	996	1151	0.0	0.0	6.2	9.4	29.8	2.5
Summary	63.8	39.4	51.6	4.7	3.6	3.9	2596	2263	1802	1138	618	457	3807	4203	4835	5996	5.0	38.4	260.4	32.3	143.4	9.1

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www.ncdc.noaa.gov

Station: **HEBRON, NE US**

GHCND:USC00253735

Elev: 1480 ft. Lat: 40.175° N Lon: 97.590° 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	0.71	4.9	2.1	0.3	-7777	0.31	0.70	0.96
2	0.78	4.9	2.1	0.2	0.0	0.44	0.70	1.00
3	2.15	7.8	4.2	1.3	0.5	1.02	1.93	2.72
4	2.79	8.7	5.6	1.8	0.6	1.95	2.31	3.37
5	4.80	11.9	7.7	3.2	1.4	2.65	4.88	7.01
6	4.78	10.0	6.6	2.9	1.2	3.17	4.26	6.47
7	4.13	8.5	5.8	2.8	1.0	2.46	3.44	5.31
8	3.73	8.8	5.5	2.2	1.2	2.87	3.70	4.44
9	2.92	7.5	4.7	1.9	0.8	1.75	2.43	3.60
10	2.21	6.7	4.4	1.1	0.5	0.82	1.63	3.20
11	1.44	5.3	2.7	0.9	0.3	0.69	1.09	1.80
12	0.95	4.9	2.2	0.6	0.1	0.32	0.65	1.43
Summary	31.39	89.9	53.6	19.2	7.6	18.45	27.72	41.31

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Station: **HEBRON, NE US**

GHCND:USC00253735
 Elev: 1480 ft. Lat: 40.175° N Lon: 97.590° 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	4.0	1.6	0.6	0.2	0.0	12.8	6.3	1.9	0.1	2.3	4.3	7.9
2	5.5	3.8	1.6	0.6	0.2	0.0	9.9	5.4	2.6	0.3	1.3	5.0	7.2
3	4.0	2.1	1.1	0.4	0.2	-7777	3.6	1.4	0.7	0.2	1.0	2.8	5.0
4	0.7	0.4	0.3	0.1	0.0	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.9
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	0.1	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.2	0.2	0.1	-7777	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
11	2.7	1.9	0.9	0.3	0.1	0.0	2.4	0.9	0.3	0.0	0.4	1.2	4.6
12	5.2	3.7	1.7	0.6	0.2	-7777	10.3	4.8	2.2	0.4	1.7	4.5	8.0
Summary	24.0	16.1	7.3	2.6	0.9	0.0	39.4	18.9	7.7	1.0	6.7	17.8	33.6

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Station: **HEBRON, NE US**

GHCND:USC00253735

Elev: 1480 ft. Lat: 40.175° N Lon: 97.590° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	33	140	351	671	960	1150	1091	777	424	120	12
45	2	11	75	234	518	810	995	936	628	292	64	3
50	-7777	2	35	140	370	660	840	781	483	180	28	1
55	0	-7777	14	75	238	511	685	626	344	94	9	-7777
60	0	-7777	4	34	133	365	530	472	221	40	3	0
Growing Degree Units for Corn (Monthly)												
50/86	18	37	114	234	409	630	763	720	496	276	96	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	44	184	535	1206	2166	3316	4407	5184	5608	5728	5740
45	2	13	88	322	840	1650	2645	3581	4209	4501	4565	4568
50	-7777	2	37	177	547	1207	2047	2828	3311	3491	3519	3520
55	0	-7777	14	89	327	838	1523	2149	2493	2587	2596	-7777
60	0	-7777	4	38	171	536	1066	1538	1759	1799	1802	1802
Growing Degree Units for Corn (Monthly)												
50/86	18	55	169	403	812	1442	2205	2925	3421	3697	3793	3811

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: **NENZEL 23 SSW, NE US**

GHCND:USC00255868
 Elev: 3251 ft. Lat: 42.617° N Lon: 101.283° 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	13.7	25.7	4.9	4.4	4.3	0	0	0	0	0	0	908	970	1063	1218	0.0	0.0	4.8	8.9	30.2	4.1
2	42.5	15.1	28.8	5.7	5.0	5.1	-7777	-7777	0	0	0	0	734	789	873	1013	0.0	0.0	8.9	5.9	26.2	3.2
3	50.7	21.7	36.2	3.5	5.1	3.9	4	2	1	-7777	0	0	587	647	739	893	0.0	0.0	16.9	2.4	24.5	1.2
4	59.5	29.3	44.4	4.9	6.1	4.8	25	18	9	2	-7777	-7777	343	395	477	620	0.0	0.1	23.0	0.3	19.3	0.0
5	70.6	40.0	55.3	4.3	4.9	3.8	116	87	51	14	2	-7777	107	139	197	315	0.0	0.6	29.8	0.0	6.9	0.0
6	79.1	51.1	65.1	3.8	5.4	4.0	312	260	187	95	42	29	10	17	34	92	0.1	2.4	30.0	0.0	0.1	0.0
7	85.4	55.6	70.5	2.5	4.2	2.6	481	419	329	190	84	56	-7777	1	4	19	0.5	8.9	31.0	0.0	0.0	0.0
8	84.1	53.3	68.7	2.5	5.8	3.7	429	370	286	157	61	35	4	8	17	43	0.2	6.8	30.8	0.0	0.2	0.0
9	74.7	45.0	59.9	4.6	4.1	3.9	200	159	107	46	14	8	55	73	111	201	0.0	2.3	29.1	0.0	2.6	0.0
10	64.4	32.8	48.6	5.6	5.0	4.8	39	24	11	2	-7777	-7777	237	285	365	511	0.0	0.2	27.2	0.5	13.4	0.0
11	48.7	21.0	34.8	5.4	5.8	5.3	3	2	1	-7777	0	0	607	666	755	904	0.0	0.0	13.9	3.6	24.9	1.7
12	40.1	12.5	26.3	6.5	6.9	6.3	0	0	0	0	0	0	889	951	1044	1199	0.0	0.0	8.0	8.3	29.2	5.1
Summary	61.5	32.6	47.0	4.5	5.2	4.4	1609	1341	982	506	203	128	4481	4941	5679	7028	0.8	21.3	253.4	29.9	177.5	15.3

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Station: **NENZEL 23 SSW, NE US**

GHCND:USC00255868
Elev: 3251 ft. Lat: 42.617° N Lon: 101.283° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	16	84	195	477	753	945	889	600	303	74	10
45	1	4	40	113	337	603	790	734	459	186	32	1
50	-7777	1	16	58	213	454	635	580	323	97	11	-7777
55	0	-7777	4	25	116	312	481	429	200	39	3	0
60	0	0	1	9	51	187	329	286	107	11	1	0
Growing Degree Units for Corn (Monthly)												
50/86	13	28	91	171	334	496	612	581	393	241	75	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	23	107	302	779	1532	2477	3366	3966	4269	4343	4353
45	1	5	45	158	495	1098	1888	2622	3081	3267	3299	3300
50	-7777	1	17	75	288	742	1377	1957	2280	2377	2388	-7777
55	0	-7777	4	29	145	457	938	1367	1567	1606	1609	1609
60	0	0	1	10	61	248	577	863	970	981	982	982
Growing Degree Units for Corn (Monthly)												
50/86	13	41	132	303	637	1133	1745	2326	2719	2960	3035	3059

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: **BLUE HILL 4 SW, NE US**

GHCND:USC00250961

Elev: 2001 ft. Lat: 40.306° N Lon: 98.505° 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	0.58	3.1	1.7	0.3	0.0	0.23	0.52	0.73
2	0.71	3.6	2.2	0.2	-7777	0.27	0.65	1.03
3	2.01	5.4	4.1	1.4	0.3	0.70	1.70	2.91
4	2.56	6.9	5.1	1.6	0.6	1.35	2.39	3.46
5	4.63	9.7	7.6	3.1	1.4	2.69	4.39	6.40
6	3.67	8.0	6.5	2.4	1.0	2.23	3.42	4.37
7	3.87	6.3	5.3	2.2	1.0	1.56	3.07	4.36
8	3.37	6.2	4.8	2.2	1.0	2.03	2.83	4.91
9	2.57	5.2	4.2	1.6	0.8	1.04	2.55	3.48
10	1.98	4.9	3.9	1.4	0.6	0.86	1.55	2.57
11	1.34	3.7	2.6	0.9	0.3	0.43	1.00	2.18
12	0.78	3.3	2.2	0.5	-7777	0.25	0.50	0.96
Summary	28.07	66.3	50.2	17.8	7.0	13.64	24.57	37.36

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Station: **BLUE HILL 4 SW, NE US**

GHCND:USC00250961
 Elev: 2001 ft. Lat: 40.306° N Lon: 98.505° 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	5.1	2.4	1.9	0.7	0.2	0.0	12.0	7.4	4.5	1.2	2.3	4.7	7.0
2	5.9	2.6	2.1	0.7	0.4	-7777	9.0	5.5	3.9	0.9	1.5	5.0	8.0
3	4.6	1.4	1.1	0.6	0.4	0.1	3.4	2.2	1.6	0.7	0.0	2.3	6.5
4	1.3	0.8	0.6	0.1	0.1	0.0	1.0	0.4	0.2	0.0	0.0	0.0	2.0
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	0.3	0.1	0.1	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.1	0.1	0.1	0.1	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.4	1.4	1.0	0.3	0.1	-7777	2.7	1.0	0.7	0.1	0.0	1.0	2.5
12	4.9	2.4	1.8	0.7	0.2	-7777	8.5	4.4	2.1	0.8	1.1	3.7	6.5
Summary	25.5	11.2	8.7	3.3	1.5	0.1	36.9	21.1	13.1	3.8	4.9	16.7	32.5

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **KINGSLEY DAM, NE US**

GHCND:USC00254455
Elev: 3317 ft. Lat: 41.210° N Lon: 101.670° 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	15.5	26.2	5.5	4.5	4.8	0	0	0	0	0	0	893	955	1048	1203	0.0	0.0	4.3	9.3	30.6	2.7
2	41.6	17.5	29.6	6.0	5.5	5.5	-7777	0	0	0	0	0	712	768	852	992	0.0	0.0	8.0	6.6	26.9	2.4
3	50.9	25.6	38.2	4.2	3.5	3.6	3	1	-7777	-7777	0	0	522	583	675	829	0.0	0.0	17.2	2.7	24.1	0.4
4	61.2	35.2	48.2	4.3	2.6	3.2	39	26	14	3	-7777	-7777	243	290	368	507	0.0	0.1	24.3	0.4	10.1	0.0
5	71.1	46.3	58.7	4.1	2.5	3.1	173	135	86	32	8	4	59	82	126	227	-7777	1.0	30.1	0.0	0.4	0.0
6	81.3	55.6	68.4	3.5	2.6	2.9	408	351	268	148	62	39	5	7	15	44	0.2	5.1	29.9	0.0	0.0	0.0
7	88.5	61.4	75.0	3.2	2.1	2.5	618	556	464	312	173	126	0	-7777	1	4	1.4	13.3	31.0	0.0	0.0	0.0
8	86.3	59.9	73.1	3.3	2.2	2.6	562	500	409	262	132	92	1	1	3	11	0.6	10.7	31.0	0.0	0.0	0.0
9	77.1	50.0	63.6	3.7	2.2	2.7	282	234	169	82	28	16	26	38	62	125	0.1	3.2	29.5	0.0	0.5	0.0
10	63.3	37.5	50.4	4.1	2.4	2.9	56	37	18	4	-7777	-7777	199	242	316	456	0.0	0.1	25.9	0.5	7.4	0.0
11	48.3	26.2	37.3	5.7	3.5	4.5	3	1	-7777	0	0	0	535	594	683	832	0.0	0.0	13.5	3.4	21.8	0.3
12	37.5	16.9	27.2	6.1	5.7	5.8	0	0	0	0	0	0	862	924	1016	1172	0.0	0.0	5.3	9.3	30.2	2.5
Summary	62.0	37.3	49.7	4.5	3.3	3.7	2144	1841	1428	843	403	277	4057	4484	5165	6402	2.3	33.5	250.0	32.2	152.0	8.3

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1981-2010**

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

Station: **KINGSLEY DAM, NE US**

GHCND:USC00254455

Elev: 3317 ft. Lat: 41.210° N Lon: 101.670° 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	0.36	3.0	1.2	0.1	0.0	0.20	0.36	0.53
2	0.59	4.3	2.0	0.1	-7777	0.16	0.40	0.72
3	1.08	6.0	3.2	0.5	0.1	0.37	0.88	1.66
4	2.03	6.8	4.7	1.5	0.3	0.91	1.63	3.28
5	3.03	9.6	6.0	2.1	0.7	1.72	2.82	4.31
6	3.27	9.9	6.4	2.3	0.9	2.14	2.96	4.08
7	2.94	7.9	5.0	1.9	0.6	2.15	2.67	3.83
8	1.89	7.7	4.2	1.2	0.4	0.99	1.62	2.45
9	1.71	6.4	3.6	1.0	0.4	0.69	1.58	2.12
10	1.27	5.9	3.3	0.7	0.1	0.76	1.01	1.83
11	0.65	3.7	1.8	0.3	0.1	0.18	0.48	0.97
12	0.46	3.1	1.3	0.2	0.0	0.10	0.29	0.53
Summary	19.28	74.3	42.7	11.9	3.6	10.37	16.70	26.31

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Station: **KINGSLEY DAM, NE US**

GHCND:USC00254455
Elev: 3317 ft. Lat: 41.210° N Lon: 101.670° 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	2.7	1.8	0.5	0.3	0.0	10.2	5.4	2.8	0.2	0.7	4.6	8.5
2	4.7	3.2	1.9	0.4	0.2	0.0	5.4	1.9	1.0	0.6	1.2	3.1	6.0
3	5.5	2.8	2.0	0.8	0.3	0.0	3.5	1.6	0.7	0.0	2.4	3.0	9.0
4	2.4	0.9	0.7	0.1	0.1	-7777	0.9	0.3	0.1	0.0	0.0	1.0	2.2
5	-7777	-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	0.2	0.1	0.1	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	0.7	0.4	0.3	0.1	0.1	-7777	0.2	0.1	0.1	-7777	0.0	0.0	0.0
11	5.9	1.9	1.2	0.5	0.3	0.1	2.8	1.2	0.4	0.2	1.0	3.1	5.0
12	5.4	2.8	1.6	0.5	0.2	0.1	7.6	4.5	3.0	0.7	2.0	4.0	8.0
Summary	30.2	14.8	9.6	2.9	1.5	0.2	30.7	15.0	8.1	1.7	7.3	18.8	38.7

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151 Patton Avenue
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www.ncdc.noaa.gov

Station: **KINGSLEY DAM, NE US**

GHCND:USC00254455

Elev: 3317 ft. Lat: 41.210° N Lon: 101.670° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	22	101	277	580	854	1083	1026	707	348	86	10
45	1	5	43	171	429	704	928	871	560	226	40	2
50	-7777	1	14	90	290	555	773	716	417	126	13	-7777
55	0	-7777	3	39	173	408	618	562	282	56	3	0
60	0	0	-7777	14	86	268	464	409	169	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	29	93	191	344	536	703	667	436	225	68	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	28	129	406	986	1840	2923	3949	4656	5004	5090	5100
45	1	6	49	220	649	1353	2281	3152	3712	3938	3978	3980
50	-7777	1	15	105	395	950	1723	2439	2856	2982	2995	-7777
55	0	-7777	3	42	215	623	1241	1803	2085	2141	2144	2144
60	0	0	-7777	14	100	368	832	1241	1410	1428	-7777	1428
Growing Degree Units for Corn (Monthly)												
50/86	11	40	133	324	668	1204	1907	2574	3010	3235	3303	3316

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: OVERTON 3 W, NE US

GHCND:USC00256439
 Elev: 2329 ft. Lat: 40.746° N Lon: 99.590° 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	14.6	26.2	6.2	4.6	5.2	0	0	0	0	0	0	894	956	1049	1204	0.0	0.0	6.1	10.4	30.2	4.2
2	41.8	17.6	29.7	6.9	5.6	6.0	-7777	-7777	-7777	0	0	0	708	764	848	988	0.0	0.0	9.6	7.3	26.2	3.1
3	52.3	26.2	39.3	4.5	3.5	3.6	6	3	1	-7777	0	0	494	553	644	798	0.0	0.1	18.4	3.3	22.7	0.9
4	63.8	36.1	49.9	4.8	3.0	3.5	57	41	24	8	2	1	208	253	326	460	0.0	0.4	25.5	0.2	10.1	0.0
5	72.7	47.0	59.9	3.3	3.8	3.3	195	153	101	41	10	5	44	65	105	201	0.0	0.9	30.8	0.0	0.9	0.0
6	82.9	57.3	70.1	3.8	3.0	3.2	455	397	311	184	86	57	2	4	9	31	0.5	5.3	30.0	0.0	0.0	0.0
7	86.9	62.4	74.6	2.9	2.1	2.3	609	547	454	301	162	116	0	0	-7777	3	0.6	10.1	31.0	0.0	0.0	0.0
8	85.3	60.7	73.0	3.7	2.8	3.1	558	496	405	256	124	83	-7777	1	2	8	0.2	7.6	31.0	0.0	0.0	0.0
9	79.0	50.2	64.6	3.5	2.0	2.4	312	262	194	103	41	24	25	34	57	115	0.2	4.5	29.6	0.0	0.6	0.0
10	66.0	37.8	51.9	4.7	2.8	3.0	70	48	25	6	1	-7777	166	206	276	413	0.0	0.1	27.9	0.3	7.6	0.0
11	51.3	25.8	38.6	6.2	3.7	4.6	5	3	1	-7777	0	0	498	556	644	794	0.0	0.0	16.1	2.4	22.9	0.3
12	38.6	15.5	27.0	6.9	5.0	5.7	0	0	0	0	0	0	866	928	1021	1176	0.0	0.0	5.8	9.0	30.3	2.9
Summary	63.2	37.6	50.4	4.8	3.5	3.8	2267	1950	1516	899	426	286	3905	4320	4981	6191	1.5	29.0	261.8	32.9	151.5	11.4

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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: **OVERTON 3 W, NE US**

GHCND:USC00256439

Elev: 2329 ft. Lat: 40.746° N Lon: 99.590° 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	0.64	2.7	1.9	0.3	0.1	0.35	0.57	0.86
2	0.64	4.0	2.6	0.4	0.0	0.26	0.65	0.84
3	1.54	5.1	3.9	0.9	0.3	0.63	1.31	2.47
4	2.47	5.6	4.2	1.5	0.7	1.20	2.13	3.27
5	3.56	10.4	7.7	2.2	1.0	2.04	3.33	5.05
6	3.87	8.7	7.1	2.5	1.1	2.56	3.87	5.26
7	3.54	8.3	6.3	2.9	1.1	2.13	3.61	4.52
8	3.22	7.2	5.1	2.2	1.1	1.88	3.11	3.97
9	2.19	5.6	4.1	1.5	0.5	1.06	1.90	2.99
10	1.84	4.9	3.3	1.1	0.5	0.88	1.49	2.53
11	0.98	4.2	2.7	0.4	0.1	0.44	0.82	1.67
12	0.56	2.1	1.3	0.3	0.0	0.02	0.44	0.81
Summary	25.05	68.8	50.2	16.2	6.5	13.45	23.23	34.24

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Station: **OVERTON 3 W, NE US**

GHCND:USC00256439
 Elev: 2329 ft. Lat: 40.746° N Lon: 99.590° 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	5.1	2.1	1.9	0.4	0.3	0.1	@	@	@	@	1.0	5.0	8.0
2	5.1	2.4	2.2	0.9	0.2	0.0	@	@	@	@	1.0	3.5	6.0
3	5.0	2.1	2.1	0.5	0.2	0.0	@	@	@	@	2.0	5.0	7.0
4	1.8	0.7	0.7	0.2	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	1.0	0.4	0.3	0.1	0.1	0.0	@	@	@	@	0.0	0.0	1.0
11	2.9	1.6	1.3	0.4	0.0	0.0	@	@	@	@	0.0	3.0	4.5
12	5.1	1.6	1.4	0.5	0.2	0.0	@	@	@	@	3.0	5.0	9.0
Summary	26.0	10.9	9.9	3.0	1.1	0.2	9999	9999	9999	9999	7.0	21.5	35.5

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Station: **OVERTON 3 W, NE US**

GHCND:USC00256439

Elev: 2329 ft. Lat: 40.746° N Lon: 99.590° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	28	124	319	616	903	1074	1023	738	386	101	8
45	2	7	57	204	462	753	919	868	591	256	48	1
50	-7777	1	21	114	318	603	764	713	447	148	19	-7777
55	0	-7777	6	57	195	455	609	558	312	70	5	0
60	0	-7777	1	24	101	311	454	405	194	25	1	0
Growing Degree Units for Corn (Monthly)												
50/86	20	39	112	223	381	583	715	681	473	265	94	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	40	164	483	1099	2002	3076	4099	4837	5223	5324	5332
45	2	9	66	270	732	1485	2404	3272	3863	4119	4167	4168
50	-7777	1	22	136	454	1057	1821	2534	2981	3129	3148	-7777
55	0	-7777	6	63	258	713	1322	1880	2192	2262	2267	2267
60	0	-7777	1	25	126	437	891	1296	1490	1515	1516	1516
Growing Degree Units for Corn (Monthly)												
50/86	20	59	171	394	775	1358	2073	2754	3227	3492	3586	3604

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: **ORD NUMBER 2, NE US**

GHCND:USC00256336

Elev: 2051 ft. Lat: 41.603° N Lon: 98.927° 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	0.55	4.1	1.5	0.4	-7777	0.19	0.48	0.83
2	0.61	5.4	2.1	0.3	0.0	0.19	0.59	0.90
3	1.64	7.1	3.6	1.0	0.3	0.55	1.55	2.44
4	2.69	9.8	5.4	2.0	0.6	1.58	2.42	3.60
5	3.90	11.3	7.2	2.8	0.9	2.65	3.46	4.99
6	3.91	10.9	6.8	2.8	1.0	2.07	3.53	5.07
7	2.67	8.5	5.2	1.8	0.7	1.41	2.51	3.15
8	3.35	8.2	5.2	2.3	1.0	1.83	2.84	4.74
9	2.36	7.4	4.0	1.4	0.6	1.27	1.88	3.48
10	2.03	6.8	4.4	1.3	0.4	0.71	1.79	2.67
11	1.20	5.1	2.3	1.0	0.2	0.21	1.14	2.15
12	0.65	4.8	1.8	0.3	0.1	0.20	0.41	0.89
Summary	25.56	89.4	49.5	17.4	5.8	12.86	22.60	34.91

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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U.S. Department of Commerce
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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: **ORD NUMBER 2, NE US**

GHCND:USC00256336
 Elev: 2051 ft. Lat: 41.603° N Lon: 98.927° 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	6.8	3.5	2.4	0.8	0.3	-7777	10.2	5.9	2.7	0.2	2.9	5.7	9.7
2	6.0	3.7	2.5	0.7	0.2	0.0	8.6	4.4	2.8	0.6	3.0	5.0	9.4
3	5.9	2.8	2.0	0.7	0.3	0.1	4.3	2.4	1.4	0.5	1.2	4.0	7.6
4	2.5	1.1	0.8	0.4	0.2	0.0	1.0	0.5	0.2	0.0	0.0	0.5	3.5
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	1.1	0.5	0.4	0.1	-7777	0.0	0.6	0.3	0.1	0.0	0.0	0.0	1.0
11	5.3	2.1	1.7	0.8	0.3	0.1	3.5	1.9	1.3	0.5	1.5	3.5	6.5
12	7.4	3.5	2.5	0.7	0.4	0.0	10.1	5.5	2.4	0.3	3.0	7.0	11.0
Summary	35.0	17.2	12.3	4.2	1.7	0.2	38.3	20.9	10.9	2.1	11.6	25.7	48.7

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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 9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

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: **GORDON 6 N, NE US**

GHCND:USC00253355
 Elev: 3701 ft. Lat: 42.895° N Lon: 102.204° 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	35.2	12.9	24.0	6.0	4.9	5.3	0	0	0	0	0	0	959	1021	1114	1269	0.0	0.0	4.1	11.4	30.1	5.6
2	38.1	15.4	26.8	6.5	6.3	6.3	-7777	-7777	0	0	0	0	791	847	931	1071	0.0	0.0	6.3	8.9	26.3	3.9
3	47.3	22.5	34.9	4.8	3.8	4.1	2	1	-7777	-7777	-7777	0	625	686	778	933	0.0	0.0	14.4	5.3	26.4	1.2
4	57.5	31.3	44.4	4.5	2.9	3.4	24	16	7	2	-7777	-7777	342	394	475	620	0.0	-7777	21.1	1.3	15.5	0.0
5	68.5	42.1	55.3	4.2	2.6	3.2	120	89	53	17	3	1	110	142	199	318	0.0	0.6	28.9	0.0	3.1	0.0
6	79.0	51.5	65.3	4.1	2.8	3.3	321	269	196	98	37	23	14	21	38	90	0.2	4.0	29.8	0.0	0.0	0.0
7	87.4	58.1	72.8	3.6	2.6	3.1	551	489	398	255	134	95	-7777	1	3	15	1.5	13.3	31.0	0.0	0.0	0.0
8	86.1	56.5	71.3	3.3	2.4	2.7	508	447	358	219	103	68	3	4	8	24	0.6	10.9	31.0	0.0	0.0	0.0
9	75.3	45.9	60.6	3.9	2.6	3.0	222	181	127	58	19	10	54	73	109	190	0.1	3.2	29.1	0.0	1.4	0.0
10	60.7	33.9	47.3	4.1	2.7	3.1	39	26	11	2	-7777	-7777	278	326	405	551	0.0	-7777	23.9	0.8	12.0	0.1
11	45.5	21.9	33.7	6.8	4.6	5.6	2	1	-7777	0	0	0	641	700	789	939	0.0	0.0	11.1	5.9	25.1	1.0
12	34.9	12.9	23.9	6.4	6.2	6.2	0	0	0	0	0	0	964	1026	1119	1274	0.0	0.0	4.0	11.7	30.2	5.0
Summary	59.6	33.7	46.7	4.9	3.7	4.1	1789	1519	1150	651	296	197	4781	5241	5968	7294	2.4	32.0	234.7	45.3	170.1	16.8

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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: **GORDON 6 N, NE US**

GHCND:USC00253355

Elev: 3701 ft. Lat: 42.895° N Lon: 102.204° 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	0.40	3.3	1.2	0.1	-7777	0.18	0.34	0.57
2	0.54	3.6	1.4	0.1	0.0	0.13	0.47	0.80
3	1.11	5.7	3.2	0.5	0.1	0.70	0.93	1.63
4	1.98	8.4	5.1	1.0	0.3	0.89	2.03	2.73
5	2.97	9.6	7.0	1.9	0.4	2.01	2.83	3.87
6	3.47	10.3	7.4	2.4	0.8	1.61	3.34	5.18
7	2.89	8.0	5.9	2.0	0.8	1.11	3.11	3.82
8	1.65	6.1	4.5	0.9	0.1	1.06	1.66	2.08
9	1.63	5.7	3.8	1.0	0.3	0.72	1.35	2.59
10	1.55	6.5	4.2	0.9	0.1	0.69	1.17	2.30
11	0.71	3.9	1.9	0.2	-7777	0.37	0.58	1.08
12	0.45	3.4	1.6	0.1	0.0	0.22	0.40	0.66
Summary	19.35	74.5	47.2	11.1	2.9	9.69	18.21	27.31

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

Station: **GORDON 6 N, NE US**

GHCND:USC00253355
Elev: 3701 ft. Lat: 42.895° N Lon: 102.204° 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	3.3	2.8	0.6	0.2	0.0	15.2	8.8	4.9	0.7	4.0	6.0	7.7
2	5.7	3.2	2.7	0.7	0.2	0.0	11.9	6.8	3.7	0.6	2.5	6.0	8.5
3	8.7	3.5	2.9	1.1	0.4	0.1	8.2	4.6	2.8	1.0	3.0	8.0	13.0
4	5.8	2.5	2.2	0.8	0.3	0.0	3.3	1.5	0.8	0.2	2.0	4.0	8.9
5	0.6	0.3	0.2	0.1	0.0	0.0	0.3	0.1	-7777	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	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	2.3	0.9	0.9	0.4	0.1	0.0	1.4	0.6	0.3	-7777	0.0	0.0	3.5
11	4.7	2.2	2.0	0.4	0.3	0.0	6.9	3.3	1.7	-7777	2.0	4.0	8.0
12	6.0	3.2	2.9	0.7	0.2	0.0	14.7	7.5	4.7	0.8	2.0	4.4	9.7
Summary	39.9	19.2	16.7	4.8	1.7	0.1	62.0	33.2	18.9	3.3	15.5	32.4	59.3

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

Station: **GORDON 6 N, NE US**

GHCND:USC00253355
Elev: 3701 ft. Lat: 42.895° N Lon: 102.204° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	18	74	204	479	758	1014	970	620	278	65	9
45	2	4	31	117	338	608	859	815	477	173	29	1
50	-7777	-7777	11	59	216	461	705	660	342	92	10	-7777
55	0	-7777	2	24	120	321	551	508	222	39	2	0
60	0	0	-7777	7	53	196	398	358	127	11	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	20	74	154	297	468	643	615	390	196	60	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	26	100	304	783	1541	2555	3525	4145	4423	4488	4497
45	2	6	37	154	492	1100	1959	2774	3251	3424	3453	3454
50	-7777	-7777	11	70	286	747	1452	2112	2454	2546	2556	-7777
55	0	-7777	2	26	146	467	1018	1526	1748	1787	1789	1789
60	0	0	-7777	7	60	256	654	1012	1139	1150	-7777	1150
Growing Degree Units for Corn (Monthly)												
50/86	11	31	105	259	556	1024	1667	2282	2672	2868	2928	2939

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: **ENDERS LAKE, NE US**

GHCND:USC00252741
 Elev: 3077 ft. Lat: 40.418° N Lon: 101.515° 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	11.9	25.9	5.8	4.1	4.7	0	0	0	0	0	0	902	964	1057	1212	0.0	0.0	7.8	8.7	30.8	4.7
2	44.2	15.3	29.8	6.7	5.1	5.4	-7777	-7777	0	0	0	0	707	763	847	987	0.0	0.0	10.3	5.5	27.5	3.2
3	52.9	23.0	38.0	4.7	3.1	3.5	3	1	-7777	-7777	0	0	532	592	684	839	0.0	0.0	18.2	2.7	26.8	0.6
4	63.3	32.4	47.8	4.8	2.7	3.3	38	26	14	3	-7777	-7777	253	300	378	517	0.0	0.4	24.7	0.3	14.3	0.0
5	73.1	43.8	58.4	4.1	2.5	3.0	168	130	83	29	6	3	61	85	131	232	0.1	1.6	30.2	0.0	2.2	0.0
6	83.3	53.8	68.5	3.9	2.6	3.0	410	353	270	152	65	42	4	6	14	46	0.8	7.4	29.9	0.0	0.0	0.0
7	89.9	59.4	74.7	4.0	2.3	2.9	609	548	456	306	172	126	-7777	1	2	7	3.7	16.4	31.0	0.0	0.0	0.0
8	88.6	57.2	72.9	4.6	2.8	3.2	555	494	403	257	131	91	1	1	3	13	2.5	14.4	31.0	0.0	0.0	0.0
9	79.9	47.1	63.5	3.7	2.6	2.9	285	238	174	88	33	20	30	43	69	133	0.4	6.0	29.6	0.0	1.4	0.0
10	66.0	33.0	49.5	3.7	2.8	2.6	44	28	13	3	-7777	-7777	214	260	339	483	0.0	0.5	27.3	0.4	14.3	0.0
11	51.4	22.4	36.9	5.5	3.1	4.0	2	1	-7777	0	0	0	545	604	693	843	0.0	0.0	16.8	2.2	26.1	0.2
12	40.1	12.2	26.1	5.8	4.6	5.0	0	0	0	0	0	0	894	956	1049	1204	0.0	0.0	8.4	8.2	30.7	3.8
Summary	64.4	34.3	49.3	4.8	3.2	3.6	2114	1819	1413	838	407	282	4143	4575	5266	6516	7.5	46.7	265.2	28.0	174.1	12.5

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

Station: **ENDERS LAKE, NE US**

GHCND:USC00252741
Elev: 3077 ft. Lat: 40.418° N Lon: 101.515° 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	0.41	2.8	1.0	0.2	-7777	0.15	0.30	0.48
2	0.45	3.4	1.2	0.1	-7777	0.10	0.40	0.67
3	1.08	5.3	2.6	0.6	0.2	0.56	0.74	1.57
4	2.19	6.8	3.8	1.5	0.5	1.14	2.28	2.79
5	2.95	10.1	6.1	2.0	0.7	1.56	2.93	4.27
6	2.94	9.4	6.0	2.0	0.7	1.78	2.87	3.62
7	2.86	8.8	5.9	2.1	1.0	1.69	2.88	3.49
8	2.54	7.1	4.2	1.6	0.9	1.39	2.31	3.56
9	1.30	5.4	2.5	0.4	0.2	0.71	1.19	1.66
10	1.60	5.2	3.0	1.0	0.3	0.76	1.48	2.08
11	0.54	2.9	1.8	0.3	-7777	0.00	0.34	0.99
12	0.46	2.4	1.1	0.2	0.0	0.08	0.18	0.61
Summary	19.32	69.6	39.2	12.0	4.5	9.92	17.90	25.79

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Station: **ENDERS LAKE, NE US**

GHCND:USC00252741
 Elev: 3077 ft. Lat: 40.418° N Lon: 101.515° 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	6.2	2.2	1.8	0.6	0.2	0.1	@	@	@	@	0.5	6.2	9.0
2	3.7	2.0	1.3	0.3	0.2	-7777	@	@	@	@	1.0	4.0	5.5
3	4.9	1.6	1.2	0.5	0.1	0.0	@	@	@	@	0.8	3.3	8.5
4	2.0	0.7	0.7	0.2	0.0	0.0	@	@	@	@	0.0	0.0	2.5
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	0.3	0.2	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	2.2	1.0	0.9	0.5	0.1	0.0	@	@	@	@	0.0	0.0	4.5
12	4.8	2.0	1.3	0.5	0.1	0.0	@	@	@	@	0.1	3.4	6.8
Summary	24.1	9.7	7.4	2.7	0.7	0.1	9999	9999	9999	9999	2.4	16.9	36.8

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-4444: year-round risk of frost-freeze

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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: **ENDERS LAKE, NE US**

GHCND:USC00252741
Elev: 3077 ft. Lat: 40.418° N Lon: 101.515° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	22	96	272	573	857	1074	1020	706	321	81	8
45	1	5	42	167	424	707	919	865	560	202	37	1
50	-7777	1	14	88	286	558	764	710	417	107	11	-7777
55	0	-7777	3	38	168	410	609	555	285	44	2	0
60	0	0	-7777	14	83	270	456	403	174	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	28	47	117	218	364	537	676	640	449	260	97	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	30	126	398	971	1828	2902	3922	4628	4949	5030	5038
45	1	6	48	215	639	1346	2265	3130	3690	3892	3929	3930
50	-7777	1	15	103	389	947	1711	2421	2838	2945	2956	-7777
55	0	-7777	3	41	209	619	1228	1783	2068	2112	2114	2114
60	0	0	-7777	14	97	367	823	1226	1400	1413	-7777	1413
Growing Degree Units for Corn (Monthly)												
50/86	28	75	192	410	774	1311	1987	2627	3076	3336	3433	3460

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: ATLANTA 2 WNW, NE US

GHCND:USC00250427

Elev: 2349 ft. Lat: 40.379° N Lon: 99.499° 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	0.45	3.2	1.4	0.2	0.1	0.17	0.32	0.65
2	0.63	3.1	1.8	0.2	0.1	0.23	0.52	0.85
3	1.75	6.4	4.2	1.2	0.4	0.59	1.61	2.27
4	2.33	5.9	3.9	1.4	0.5	1.37	2.17	3.24
5	4.07	10.4	8.2	2.8	1.0	2.65	3.94	5.49
6	3.46	7.9	5.9	2.0	1.0	1.49	3.42	4.53
7	3.70	6.2	5.4	2.7	1.3	1.01	2.63	6.31
8	3.09	6.0	5.1	2.2	1.1	1.41	2.79	4.17
9	2.04	4.4	3.7	1.2	0.3	1.07	1.54	2.46
10	1.94	3.7	2.7	1.1	0.4	0.51	1.47	2.49
11	1.19	4.6	2.9	0.7	0.4	0.37	0.80	2.11
12	0.53	3.1	1.3	0.3	0.0	0.08	0.27	0.72
Summary	25.18	64.9	46.5	16.0	6.6	10.95	21.48	35.29

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 1981-2010**

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

Station: ATLANTA 2 WNW, NE US

GHCND:USC00250427
 Elev: 2349 ft. Lat: 40.379° N Lon: 99.499° 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	3.1	2.2	0.8	0.3	0.0	13.8	8.4	4.8	1.6	2.6	5.6	9.6
2	5.6	2.5	1.8	0.7	0.3	0.1	9.1	5.1	3.1	1.0	0.6	3.1	9.8
3	6.6	2.8	2.0	0.8	0.3	0.1	4.8	2.1	1.2	0.4	2.7	5.6	6.9
4	2.1	1.3	1.1	0.2	0.1	0.0	1.7	0.6	0.2	0.0	0.0	0.0	1.3
5	-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
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	0.5	0.2	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0
10	1.1	0.2	0.2	0.2	0.1	0.1	0.4	0.3	0.2	0.1	0.0	0.0	0.0
11	4.8	2.5	1.6	0.5	0.2	0.0	4.3	1.5	0.6	0.3	2.9	4.1	5.1
12	5.6	2.7	2.1	0.5	0.2	0.0	10.7	5.5	2.6	1.7	3.0	4.9	7.4
Summary	32.4	15.4	11.1	3.8	1.6	0.3	45.0	23.6	12.8	5.1	11.8	23.3	40.1

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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: **UTICA, NE US**

GHCND:USC00258745

Elev: 1601 ft. Lat: 40.897° N Lon: 97.346° 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	0.62	3.9	2.2	0.2	0.0	0.33	0.55	0.94
2	0.65	4.1	2.2	0.3	0.0	0.39	0.67	0.80
3	2.19	6.8	4.6	1.6	0.4	0.96	2.00	2.92
4	2.49	7.8	5.1	1.7	0.5	1.39	2.47	3.21
5	4.60	11.0	7.8	3.4	1.2	3.45	4.54	5.73
6	4.20	9.5	6.6	2.6	1.2	2.48	3.68	5.97
7	3.84	7.7	5.5	2.4	1.1	1.62	3.35	5.52
8	3.31	8.1	5.4	2.4	0.9	1.59	2.77	4.88
9	2.88	6.8	4.7	2.0	0.8	1.25	2.40	3.87
10	1.98	6.3	3.6	1.2	0.5	0.79	1.41	3.19
11	1.29	4.5	2.7	1.0	0.3	0.47	1.10	1.97
12	0.86	4.5	2.2	0.6	-7777	0.34	0.66	1.11
Summary	28.91	81.0	52.6	19.4	6.9	15.06	25.60	40.11

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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: **UTICA, NE US**

GHCND:USC00258745
 Elev: 1601 ft. Lat: 40.897° N Lon: 97.346° 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	5.1	2.7	1.8	0.7	0.3	0.0	11.2	7.3	4.4	1.5	3.8	4.9	7.0
2	4.8	2.7	1.8	0.7	0.2	0.0	10.2	6.7	3.5	1.7	2.0	5.0	7.0
3	4.8	1.5	1.2	0.7	0.3	-7777	3.1	2.1	1.6	0.6	0.4	3.5	6.6
4	0.6	0.3	0.3	0.1	0.0	0.0	0.3	0.2	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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.2	0.2	-7777	-7777	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	0.5	0.6	0.4	0.1	-7777	-7777	0.8	0.1	0.0	0.0	0.0	0.0	0.1
12	5.0	2.5	1.5	0.7	0.3	-7777	8.1	5.3	3.7	0.5	0.0	2.5	6.8
Summary	21.6	10.5	7.2	3.0	1.1	0.0	34.0	21.9	13.4	4.4	6.2	15.9	27.5

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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: **BROWNLEE, NE US**

GHCND:USC00251213
Elev: 2822 ft. Lat: 42.287° N Lon: 100.629° 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	11.9	25.1	5.7	5.5	5.3	0	0	0	0	0	0	925	987	1080	1235	0.0	0.0	7.1	10.2	30.6	5.1
2	41.5	14.0	27.8	6.4	5.9	6.0	-7777	-7777	0	0	0	0	763	819	903	1043	0.0	0.0	9.2	7.2	26.5	4.4
3	50.1	22.0	36.1	4.1	4.2	3.8	2	1	1	-7777	0	0	590	651	743	898	0.0	0.1	16.3	3.9	27.1	1.0
4	59.8	31.0	45.4	4.5	3.3	3.5	29	20	11	3	-7777	-7777	317	368	449	590	0.0	0.5	22.2	0.3	16.3	0.0
5	70.1	41.6	55.8	4.0	2.7	2.9	121	90	52	15	2	-7777	95	125	181	299	0.0	0.3	30.0	0.0	4.0	0.0
6	79.6	53.4	66.5	3.5	3.6	3.0	351	295	216	110	41	25	6	10	21	65	0.2	3.2	29.9	0.0	0.2	0.0
7	86.4	57.0	71.7	2.9	2.1	2.3	517	456	364	220	107	74	-7777	-7777	2	13	1.1	10.6	31.0	0.0	0.0	0.0
8	85.0	55.0	70.0	3.7	1.9	2.7	467	407	318	182	81	52	2	4	9	28	0.3	8.5	31.0	0.0	0.1	0.0
9	77.6	43.4	60.5	3.9	2.5	2.7	217	176	121	53	17	9	52	71	106	188	0.0	3.9	29.5	0.0	3.3	0.0
10	64.6	31.8	48.2	4.2	1.9	2.6	36	22	9	1	-7777	-7777	247	295	375	522	0.0	0.4	26.9	0.1	16.4	0.0
11	49.0	21.0	35.0	6.8	3.7	5.0	4	2	1	-7777	0	0	604	662	750	900	0.0	0.0	14.9	4.5	26.3	1.4
12	40.2	11.9	26.0	7.4	5.7	6.2	0	0	0	0	0	0	897	959	1052	1207	0.0	0.0	9.6	9.1	30.5	4.5
Summary	61.9	32.8	47.3	4.8	3.6	3.8	1744	1469	1093	584	248	160	4498	4951	5671	6988	1.6	27.5	257.6	35.3	181.3	16.4

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

Station: **BROWNLEE, NE US**

GHCND:USC00251213
Elev: 2822 ft. Lat: 42.287° N Lon: 100.629° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	27	87	215	494	794	982	929	617	292	72	15
45	1	8	38	127	350	645	827	774	473	181	32	3
50	-7777	2	12	67	223	496	672	620	337	93	13	-7777
55	0	-7777	2	29	121	351	517	467	217	36	4	0
60	0	0	1	11	52	216	364	318	121	9	1	0
Growing Degree Units for Corn (Monthly)												
50/86	25	42	97	174	323	503	627	597	418	241	81	35

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	37	124	339	833	1627	2609	3538	4155	4447	4519	4534
45	1	9	47	174	524	1169	1996	2770	3243	3424	3456	3459
50	-7777	2	14	81	304	800	1472	2092	2429	2522	2535	-7777
55	0	-7777	2	31	152	503	1020	1487	1704	1740	1744	1744
60	0	0	1	12	64	280	644	962	1083	1092	1093	1093
Growing Degree Units for Corn (Monthly)												
50/86	25	67	164	338	661	1164	1791	2388	2806	3047	3128	3163

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: **MCCOOK MUNICIPAL AIRPORT, NE US**

GHCND:USW00094040
 Elev: 2530 ft. Lat: 40.206° N Lon: 100.591° 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	40.6	13.9	27.2	6.2	3.9	4.9	-7777	-7777	0	0	0	0	860	922	1015	1170	0.0	0.0	8.6	9.1	30.9	3.1
2	44.6	17.2	30.9	6.4	4.6	5.2	-7777	-7777	0	0	0	0	675	731	815	955	0.0	0.0	10.4	5.7	27.3	2.2
3	54.1	24.6	39.4	4.4	3.5	3.6	6	3	1	-7777	-7777	0	491	550	641	795	0.0	0.0	19.0	2.3	25.0	0.6
4	64.5	34.4	49.5	4.4	2.5	3.2	53	38	21	6	1	-7777	220	264	338	472	0.0	0.5	25.4	0.3	11.6	0.0
5	73.4	45.8	59.6	3.7	2.4	2.8	190	150	99	39	10	5	48	69	111	206	0.1	1.8	30.5	0.0	1.0	0.0
6	84.0	55.9	69.9	3.8	2.9	3.1	452	394	310	185	88	60	3	5	12	36	0.8	7.9	30.0	0.0	0.0	0.0
7	89.9	61.9	75.9	3.0	2.2	2.4	648	586	493	341	200	151	0	-7777	-7777	3	2.9	16.5	31.0	0.0	0.0	0.0
8	87.6	59.9	73.8	3.7	2.3	2.8	581	520	428	280	149	107	-7777	-7777	2	9	1.4	12.4	31.0	0.0	0.0	0.0
9	79.4	49.3	64.4	3.5	2.6	2.8	304	255	187	98	38	23	23	34	57	117	0.2	5.2	29.6	0.0	0.6	0.0
10	66.5	36.2	51.3	3.8	2.3	2.6	66	45	24	7	1	-7777	179	221	293	430	0.0	0.4	28.0	0.3	9.4	0.0
11	52.3	24.1	38.2	5.6	3.3	4.1	4	2	-7777	-7777	0	0	508	566	654	804	0.0	0.0	17.2	2.5	24.6	0.3
12	41.0	15.0	28.0	5.9	4.9	5.3	0	0	0	0	0	0	837	899	992	1147	0.0	0.0	8.4	7.5	30.7	2.5
Summary	64.8	36.5	50.7	4.5	3.1	3.6	2304	1993	1563	956	487	346	3844	4261	4930	6144	5.4	44.7	269.1	27.7	161.1	8.7

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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: **MCCOOK MUNICIPAL AIRPORT, NE US**

GHCND:USW00094040
Elev: 2530 ft. Lat: 40.206° N Lon: 100.591° 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	0.51	2.7	1.4	0.2	0.1	0.13	0.37	0.73
2	0.62	3.8	1.8	0.3	0.1	0.19	0.42	0.90
3	1.36	5.9	3.1	0.8	0.2	0.57	1.32	1.87
4	2.31	7.4	4.6	1.4	0.6	1.16	1.68	3.20
5	3.14	10.7	6.5	1.9	0.7	1.69	2.85	4.54
6	3.38	9.1	5.9	2.2	0.9	2.11	3.23	4.74
7	3.25	8.5	5.5	2.2	0.8	1.80	2.84	4.01
8	3.14	7.7	5.1	2.3	1.0	1.80	3.12	4.34
9	1.44	5.3	3.1	1.1	0.3	0.53	1.17	1.93
10	1.79	6.1	3.4	1.1	0.3	0.43	1.40	3.04
11	0.95	4.4	2.0	0.7	-7777	0.36	0.68	1.57
12	0.64	3.5	1.4	0.3	0.1	0.14	0.44	0.80
Summary	22.53	75.1	43.8	14.5	5.1	10.91	19.52	31.67

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Station: **MCCOOK MUNICIPAL AIRPORT, NE US**

GHCND:USW00094040
 Elev: 2530 ft. Lat: 40.206° N Lon: 100.591° 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	5.5	2.4	1.9	0.6	0.3	0.1	10.5	6.4	4.2	1.3	1.3	3.2	7.8
2	5.6	2.2	1.9	0.6	0.3	0.0	8.8	4.7	2.2	0.1	2.0	4.0	10.0
3	5.1	2.0	1.7	0.6	0.3	0.1	3.6	1.6	0.9	0.1	2.0	3.8	9.0
4	2.7	1.0	0.9	0.5	0.1	0.0	1.0	0.7	0.3	0.0	0.0	1.0	4.0
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	0.1	-7777	-7777	-7777	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
10	0.9	0.4	0.3	0.2	0.1	-7777	0.3	0.2	0.2	-7777	0.0	0.0	0.0
11	3.5	1.4	1.3	0.5	0.1	0.1	2.7	1.5	0.7	0.2	0.4	2.9	4.7
12	5.4	2.3	1.7	0.8	0.2	-7777	7.6	5.0	3.2	0.6	1.4	4.2	8.0
Summary	28.8	11.7	9.7	3.8	1.4	0.3	34.6	20.2	11.7	2.3	7.1	19.1	43.5

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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: **MCCOOK MUNICIPAL AIRPORT, NE US**

GHCND:USW00094040
Elev: 2530 ft. Lat: 40.206° N Lon: 100.591° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	33	122	310	608	899	1113	1046	731	370	100	13
45	3	10	59	198	457	749	958	891	584	244	49	3
50	-7777	2	22	112	314	599	803	736	440	141	17	-7777
55	-7777	-7777	6	53	190	452	648	581	304	66	4	0
60	0	0	1	21	99	310	493	428	187	24	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	34	51	129	232	376	569	717	674	462	268	103	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	48	170	480	1088	1987	3100	4146	4877	5247	5347	5360
45	3	13	72	270	727	1476	2434	3325	3909	4153	4202	4205
50	-7777	2	24	136	450	1049	1852	2588	3028	3169	3186	-7777
55	-7777	-7777	6	59	249	701	1349	1930	2234	2300	2304	2304
60	0	0	1	22	121	431	924	1352	1539	1563	-7777	1563
Growing Degree Units for Corn (Monthly)												
50/86	34	85	214	446	822	1391	2108	2782	3244	3512	3615	3644

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: **ATKINSON 3 SW, NE US**

GHCND:USC00250420

Elev: 2090 ft. Lat: 42.514° N Lon: 99.030° 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	33.1	9.8	21.4	6.8	5.9	6.2	0	0	0	0	0	0	1040	1102	1195	1350	0.0	0.0	3.6	13.6	30.7	7.2
2	36.5	12.8	24.6	7.0	6.0	6.4	-7777	-7777	-7777	0	0	0	849	905	989	1130	0.0	0.0	5.8	10.6	27.4	4.8
3	47.2	22.4	34.8	5.2	3.7	4.2	3	1	-7777	-7777	0	0	629	689	781	936	0.0	0.0	13.8	4.7	25.9	1.3
4	59.3	34.1	46.7	5.0	3.0	3.8	41	29	17	5	1	-7777	290	338	416	554	0.0	0.2	22.8	0.7	12.3	0.0
5	70.2	46.2	58.2	3.6	2.6	2.9	165	127	81	29	7	3	65	90	136	240	0.0	0.5	30.2	0.0	1.2	0.0
6	79.8	55.9	67.8	3.2	2.7	2.8	389	333	252	136	57	37	4	7	16	51	0.1	2.7	30.0	0.0	0.0	0.0
7	86.2	61.3	73.7	3.7	2.4	2.9	581	519	427	279	150	108	-7777	-7777	1	8	1.0	9.8	31.0	0.0	0.0	0.0
8	83.9	59.3	71.6	3.2	2.4	2.7	515	454	364	222	106	71	1	2	5	18	0.2	6.8	31.0	0.0	0.0	0.0
9	75.3	49.1	62.2	3.6	2.8	2.9	251	207	147	72	26	14	35	51	81	156	0.0	1.8	29.7	0.0	1.0	0.0
10	62.3	35.5	48.9	3.9	2.5	2.8	47	32	17	4	-7777	-7777	237	284	361	503	0.0	0.1	26.4	0.4	10.9	0.0
11	46.1	23.1	34.6	6.7	4.5	5.4	3	2	1	0	0	0	615	674	763	912	0.0	0.0	12.3	5.2	23.9	1.0
12	33.3	11.5	22.4	7.1	5.7	6.3	-7777	-7777	-7777	0	0	0	1010	1072	1165	1320	0.0	0.0	3.7	13.4	30.5	5.9
Summary	59.4	35.1	47.2	4.9	3.7	4.1	1995	1704	1306	747	347	233	4775	5214	5909	7178	1.3	21.9	240.3	48.6	163.8	20.2

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1981-2010**

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

Station: **ATKINSON 3 SW, NE US**

GHCND:USC00250420

Elev: 2090 ft. Lat: 42.514° N Lon: 99.030° 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	0.42	3.1	1.2	0.1	-7777	0.19	0.36	0.50
2	0.61	3.9	2.0	0.2	-7777	0.29	0.46	0.80
3	1.53	5.8	3.5	1.2	0.1	0.76	1.32	1.91
4	2.70	8.2	5.9	1.6	0.6	1.47	2.21	3.67
5	3.71	9.8	7.2	2.6	0.9	2.67	3.42	4.18
6	3.91	9.9	7.1	2.7	1.1	2.57	3.80	4.98
7	2.82	7.9	5.3	1.9	0.7	1.44	2.67	3.91
8	2.82	7.0	5.1	1.7	0.7	1.44	2.81	3.90
9	2.55	6.9	4.7	1.7	0.7	1.22	2.28	3.32
10	2.11	5.9	4.1	1.3	0.6	0.67	1.97	3.12
11	1.02	4.1	2.7	0.7	0.2	0.21	1.05	1.62
12	0.58	3.1	1.7	0.3	0.1	0.09	0.36	0.94
Summary	24.78	75.6	50.5	16.0	5.7	13.02	22.71	32.85

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Station: **ATKINSON 3 SW, NE US**

GHCND:USC00250420
 Elev: 2090 ft. Lat: 42.514° N Lon: 99.030° 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	2.5	1.9	0.7	0.2	-7777	13.7	9.8	5.2	0.7	2.0	4.4	6.2
2	5.6	2.5	2.0	0.8	0.3	-7777	12.2	9.2	6.2	2.5	1.5	5.0	8.0
3	5.6	2.6	2.2	0.9	0.4	-7777	6.2	3.8	1.7	0.3	2.0	5.2	8.5
4	4.0	1.1	1.1	0.6	0.4	0.0	1.6	1.0	0.6	0.1	0.0	2.0	6.0
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	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.3	0.6	0.4	0.2	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	0.5
11	5.4	2.0	1.8	0.7	0.3	0.1	5.7	3.7	2.8	0.8	2.0	3.0	7.5
12	5.6	2.9	2.4	0.9	0.3	-7777	13.0	9.7	5.6	1.5	1.3	3.9	8.4
Summary	32.4	14.2	11.8	4.8	2.0	0.1	53.0	37.5	22.2	5.9	8.8	23.5	45.1

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Station: **ATKINSON 3 SW, NE US**

GHCND:USC00250420

Elev: 2090 ft. Lat: 42.514° N Lon: 99.030° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	13	74	250	565	835	1046	979	667	309	74	5
45	1	4	34	153	415	686	891	824	520	194	35	1
50	-7777	-7777	12	84	279	536	736	670	379	106	13	-7777
55	0	-7777	3	41	165	389	581	515	251	47	3	-7777
60	0	-7777	-7777	17	81	252	427	364	147	17	1	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	19	71	171	338	533	689	642	419	211	63	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	19	93	343	908	1743	2789	3768	4435	4744	4818	4823
45	1	5	39	192	607	1293	2184	3008	3528	3722	3757	3758
50	-7777	-7777	12	96	375	911	1647	2317	2696	2802	2815	-7777
55	0	-7777	3	44	209	598	1179	1694	1945	1992	1995	-7777
60	0	-7777	-7777	17	98	350	777	1141	1288	1305	1306	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	29	100	271	609	1142	1831	2473	2892	3103	3166	3175

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: **YORK 3 N, NE US**

GHCND:USC00259513

Elev: 1614 ft. Lat: 40.915° N Lon: 97.600° 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	35.8	11.6	23.7				0	0	0	0	0	0	970	1032	1125	1280	0.0	0.0	1.5	13.0	31.0	4.5
2	40.0	16.3	28.2				0	0	0	0	0	0	751	807	892	1032	0.0	0.0	5.5	7.5	26.0	1.5
3	50.1	25.3	37.7				2	1	-7777	0	0	0	538	599	691	846	0.0	0.0	15.0	1.0	24.5	0.0
4	64.1	36.5	50.3				27	13	4	-7777	-7777	0	168	215	295	441	0.0	0.0	28.5	0.0	8.0	0.0
5	73.7	49.8	61.8				222	171	110	43	10	4	13	24	56	143	0.0	0.5	31.0	0.0	0.0	0.0
6	83.3	59.3	71.3				488	429	339	195	75	40	-7777	-7777	-7777	6	0.0	1.5	30.0	0.0	0.0	0.0
7	88.1	63.1	75.6				638	576	483	328	177	124	0	0	0	0	0.0	10.5	31.0	0.0	0.0	0.0
8	85.5	60.8	73.2				562	500	409	260	127	84	-7777	-7777	1	8	0.0	5.5	31.0	0.0	0.0	0.0
9	79.2	51.4	65.3				315	260	187	86	26	13	7	12	29	77	0.0	1.0	30.0	0.0	0.0	0.0
10	66.8	37.5	52.2				78	55	30	10	1	1	166	205	273	408	0.0	0.3	28.3	0.0	7.3	0.0
11	51.1	25.6	38.4				2	1	-7777	0	0	0	501	560	650	800	0.0	0.0	16.0	0.7	24.7	0.0
12	37.3	14.2	25.8				-7777	0	0	0	0	0	905	968	1061	1216	0.0	0.0	4.3	10.7	31.0	1.7
Summary	62.9	37.6	50.3	9999	9999	9999	2334	2006	1562	922	416	266	4019	4422	5073	6257	0.0	19.3	252.1	32.9	152.5	7.7

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-4444: year-round risk of frost-freeze

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1981-2010**

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

Station: **YORK 3 N, NE US**

GHCND:USC00259513

Elev: 1614 ft. Lat: 40.915° N Lon: 97.600° 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	0.61	@	@	@	@			
2	1.19	@	@	@	@			
3	2.05	@	@	@	@			
4	3.16	@	@	@	@			
5	4.56	@	@	@	@			
6	4.01	@	@	@	@			
7	4.16	@	@	@	@			
8	3.29	@	@	@	@			
9	2.66	@	@	@	@			
10	2.06	@	@	@	@			
11	1.37	@	@	@	@			
12	1.11	@	@	@	@			
Summary	30.23	9999	9999	9999	9999	9999	9999	9999

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **YORK 3 N, NE US**

GHCND:USC00259513
Elev: 1614 ft. Lat: 40.915° N Lon: 97.600° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	1	10	75	318	674	938	1103	1027	758	386	73	8
45	-7777	2	33	192	519	788	947	872	608	257	33	2
50	-7777	-7777	7	91	367	638	792	716	460	153	11	-7777
55	0	0	2	27	222	488	638	562	315	78	2	-7777
60	0	0	-7777	4	110	339	483	409	187	30	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	3	11	65	214	404	627	750	692	485	268	68	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	1	11	86	404	1078	2016	3119	4146	4904	5290	5363	5371
45	-7777	2	35	227	746	1534	2481	3353	3961	4218	4251	4253
50	-7777	-7777	7	98	465	1103	1895	2611	3071	3224	3235	-7777
55	0	0	2	29	251	739	1377	1939	2254	2332	2334	-7777
60	0	0	-7777	4	114	453	936	1345	1532	1562	-7777	1562
Growing Degree Units for Corn (Monthly)												
50/86	3	14	79	293	697	1324	2074	2766	3251	3519	3587	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

-4444: year-round risk of frost-freeze

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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: **SPRINGVIEW, NE US**

GHCND:USC00258090

Elev: 2497 ft. Lat: 42.822° N Lon: 99.747° 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	34.7	12.5	23.6	6.5	6.2	6.2	0	0	0	0	0	0	973	1035	1128	1283	0.0	0.0	4.8	12.3	29.7	5.8
2	38.2	15.9	27.0	6.9	6.2	6.4	-7777	-7777	-7777	0	0	0	783	838	922	1062	0.0	0.0	7.0	9.8	26.0	3.7
3	48.2	23.8	36.0	5.8	4.1	4.7	6	4	1	-7777	-7777	0	596	655	745	899	0.0	0.0	14.3	4.8	24.6	0.9
4	59.4	33.4	46.4	4.8	3.2	3.7	40	28	16	5	1	-7777	298	346	424	563	0.0	0.3	22.2	0.7	13.2	0.0
5	70.2	44.9	57.5	3.8	2.5	2.9	154	118	75	28	7	3	75	101	151	259	-7777	0.7	29.8	0.0	1.6	0.0
6	79.8	54.8	67.3	4.0	3.1	3.4	376	321	243	133	57	37	7	12	24	64	0.3	4.2	30.0	0.0	0.0	0.0
7	87.0	60.5	73.7	4.0	2.8	3.2	581	519	428	282	155	114	-7777	1	2	11	2.1	11.6	31.0	0.0	0.0	0.0
8	85.5	58.4	72.0	3.3	2.7	2.9	527	466	376	236	117	81	2	3	6	21	0.8	9.2	31.0	0.0	0.0	0.0
9	76.4	48.0	62.2	3.9	3.2	3.1	256	211	153	79	30	18	40	55	87	163	0.0	4.2	29.5	-7777	1.2	0.0
10	62.2	36.2	49.2	3.9	2.5	2.9	54	37	20	5	1	-7777	234	279	354	495	0.0	0.4	25.1	0.3	9.2	0.0
11	46.8	24.2	35.5	6.7	4.4	5.3	5	2	1	-7777	0	0	590	647	736	885	0.0	0.0	12.9	5.4	22.6	0.9
12	35.2	13.8	24.5	7.0	6.0	6.3	-7777	-7777	0	0	0	0	945	1007	1100	1255	0.0	0.0	5.0	11.7	30.0	5.0
Summary	60.3	35.5	47.9	5.1	3.9	4.3	1999	1706	1313	768	368	253	4543	4979	5679	6960	3.2	30.6	242.6	45.0	158.1	16.3

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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: **SPRINGVIEW, NE US**

GHCND:USC00258090

Elev: 2497 ft. Lat: 42.822° N Lon: 99.747° 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	0.26	2.1	0.8	0.1	0.0	0.10	0.21	0.39
2	0.51	2.5	1.2	0.1	0.0	0.28	0.47	0.64
3	1.12	4.3	2.5	0.9	0.2	0.52	0.86	1.65
4	2.33	7.1	5.0	1.2	0.1	1.14	2.36	3.23
5	3.78	8.9	6.6	2.8	1.0	2.08	3.42	5.15
6	4.43	9.3	7.4	2.6	1.1	3.20	4.24	5.67
7	2.91	7.1	5.1	2.2	0.8	1.76	2.61	3.94
8	2.68	6.1	4.8	1.5	0.8	1.67	2.09	3.78
9	2.89	6.4	4.6	1.8	0.8	1.63	2.33	3.72
10	1.69	4.8	3.6	0.9	0.3	0.70	1.37	2.22
11	0.65	3.3	1.8	0.4	0.1	0.18	0.61	0.84
12	0.32	2.0	1.0	0.1	-7777	0.11	0.20	0.46
Summary	23.57	63.9	44.4	14.6	5.2	13.37	20.77	31.69

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Station: **SPRINGVIEW, NE US**

GHCND:USC00258090
 Elev: 2497 ft. Lat: 42.822° N Lon: 99.747° 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	2.2	1.7	0.5	0.2	0.1	@	@	@	@	1.8	4.0	6.8
2	6.4	2.7	2.2	0.6	0.3	0.1	@	@	@	@	1.8	4.5	8.0
3	7.0	2.3	1.7	1.0	0.5	0.0	@	@	@	@	1.0	6.3	10.6
4	6.0	1.4	1.3	0.7	0.4	0.1	@	@	@	@	0.0	2.0	8.5
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	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.1	0.5	0.5	0.2	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	4.6	2.3	1.5	0.7	0.2	-7777	@	@	@	@	1.3	4.3	7.5
12	5.3	2.4	1.8	0.9	0.2	-7777	@	@	@	@	2.0	4.0	4.5
Summary	35.7	13.9	10.8	4.6	1.8	0.3	9999	9999	9999	9999	7.9	25.1	45.9

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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: **SPRINGVIEW, NE US**

GHCND:USC00258090

Elev: 2497 ft. Lat: 42.822° N Lon: 99.747° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	26	97	245	545	819	1046	990	667	320	89	13
45	3	9	47	150	398	669	891	835	521	207	46	3
50	-7777	2	19	82	264	520	736	680	382	116	18	-7777
55	0	-7777	6	40	154	376	581	527	256	54	5	-7777
60	0	-7777	1	16	75	243	428	376	153	20	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	28	85	173	329	513	676	639	416	212	71	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	38	135	380	925	1744	2790	3780	4447	4767	4856	4869
45	3	12	59	209	607	1276	2167	3002	3523	3730	3776	3779
50	-7777	2	21	103	367	887	1623	2303	2685	2801	2819	-7777
55	0	-7777	6	46	200	576	1157	1684	1940	1994	1999	-7777
60	0	-7777	1	17	92	335	763	1139	1292	1312	1313	1313
Growing Degree Units for Corn (Monthly)												
50/86	15	43	128	301	630	1143	1819	2458	2874	3086	3157	3173

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: TAYLOR, NE US

GHCND:USC00258455

Elev: 2270 ft. Lat: 41.771° N Lon: 99.381° 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	36.4	10.1	23.3				0	0	0	0	0	0	984	1046	1139	1294	0.0	0.0	3.1	10.3	31.0	1.7
2	40.1	15.0	27.6				0	0	0	0	0	0	768	824	908	1049	0.0	0.0	4.5	5.5	28.0	0.5
3	48.6	23.3	35.9				1	-7777	-7777	0	0	0	592	653	745	900	0.0	0.0	13.4	0.5	24.3	0.0
4	61.0	34.0	47.5				15	8	2	-7777	0	0	241	293	378	525	0.0	0.0	26.0	0.0	12.1	0.0
5	70.9	46.6	58.8				156	115	67	23	7	3	40	61	106	217	0.0	0.7	31.0	0.0	0.4	0.0
6	80.8	56.1	68.5				404	345	258	124	31	13	-7777	1	5	21	0.0	1.0	30.0	0.0	0.0	0.0
7	87.5	63.2	75.4				630	568	475	320	172	117	0	0	0	-7777	0.0	7.9	31.0	0.0	0.0	0.0
8	84.8	59.3	72.1				528	467	375	229	104	65	-7777	-7777	2	11	0.0	5.7	31.0	0.0	0.0	0.0
9	77.0	48.9	63.0				255	205	137	51	11	5	18	27	49	113	0.0	0.3	30.0	0.0	0.0	0.0
10	64.1	34.7	49.4				47	31	14	2	-7777	0	220	266	342	485	0.0	0.0	27.0	0.0	10.8	0.0
11	49.5	22.6	36.1				-7777	-7777	0	0	0	0	569	629	719	869	0.0	0.0	16.0	2.1	26.9	0.3
12	37.0	12.3	24.7				0	0	0	0	0	0	940	1002	1095	1250	0.0	0.0	4.8	11.2	30.3	1.8
Summary	61.5	35.5	48.5	9999	9999	9999	2036	1739	1328	749	325	203	4372	4802	5488	6734	0.0	15.6	247.8	29.6	163.8	4.3

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

Station: **TAYLOR, NE US**

GHCND:USC00258455

Elev: 2270 ft. Lat: 41.771° N Lon: 99.381° 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	0.57	2.9	1.4	0.3	0.1	0.16	0.36	0.92
2	0.80	4.0	2.2	0.4	0.1	0.28	0.66	1.01
3	1.68	5.7	3.7	1.2	0.3	0.47	1.34	2.77
4	2.94	7.6	5.5	2.2	0.8	1.54	2.78	3.85
5	3.96	10.2	7.3	2.3	1.0	2.83	3.70	4.40
6	3.93	9.6	6.7	2.9	1.1	2.02	3.38	4.83
7	2.93	7.3	4.9	2.0	0.8	1.28	2.48	3.41
8	2.96	7.4	4.9	2.2	0.6	1.83	2.56	3.58
9	2.29	6.6	4.4	1.3	0.6	0.89	1.88	3.69
10	2.06	6.4	4.1	1.3	0.5	0.58	1.83	3.13
11	1.21	4.2	2.7	0.8	0.2	0.33	1.03	2.24
12	0.71	3.3	1.6	0.3	0.1	0.15	0.33	0.70
Summary	26.04	75.2	49.4	17.2	6.2	12.36	22.33	34.53

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Station: **TAYLOR, NE US**

GHCND:USC00258455
 Elev: 2270 ft. Lat: 41.771° N Lon: 99.381° 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	2.6	1.9	0.7	0.4	0.1	14.4	9.9	7.5	2.7	2.0	5.2	7.5
2	6.5	3.0	2.3	0.8	0.4	-7777	14.6	8.8	5.8	2.0	2.7	6.0	10.0
3	5.6	2.5	1.9	0.9	0.3	-7777	6.4	3.3	1.8	0.5	1.5	3.8	7.3
4	3.6	1.1	1.0	0.4	0.2	0.1	1.8	1.0	0.6	-7777	0.0	0.7	6.5
5	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
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	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	1.1	0.6	0.5	0.2	-7777	0.0	0.8	0.4	0.1	0.0	0.0	0.0	1.0
11	5.2	1.9	1.4	0.8	0.3	0.1	5.4	2.4	1.1	0.4	0.5	4.0	6.0
12	6.6	3.1	2.2	0.9	0.2	0.1	13.8	8.0	4.4	1.8	1.5	4.3	11.3
Summary	34.5	14.8	11.2	4.7	1.8	0.4	57.2	33.8	21.3	7.4	8.2	24.0	49.6

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www.ncdc.noaa.gov

Station: TAYLOR, NE US

GHCND:USC00258455

Elev: 2270 ft. Lat: 41.771° N Lon: 99.381° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	-7777	1	56	250	581	853	1095	993	688	308	47	7
45	-7777	-7777	21	136	428	703	939	838	538	191	14	2
50	-7777	-7777	7	54	282	553	784	683	392	103	1	-7777
55	0	0	1	15	156	404	630	528	255	47	-7777	0
60	0	0	-7777	2	67	258	475	375	137	14	0	0
Growing Degree Units for Corn (Monthly)												
50/86	4	10	58	176	341	553	745	661	435	228	61	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	-7777	1	57	307	888	1741	2836	3829	4517	4825	4872	4879
45	-7777	-7777	21	157	585	1288	2227	3065	3603	3794	3808	3810
50	-7777	-7777	7	61	343	896	1680	2363	2755	2858	2859	-7777
55	0	0	1	16	172	576	1206	1734	1989	2036	-7777	2036
60	0	0	-7777	2	69	327	802	1177	1314	1328	1328	1328
Growing Degree Units for Corn (Monthly)												
50/86	4	14	72	248	589	1142	1887	2548	2983	3211	3272	3285

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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 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: BUSHNELL 15 S, NE US

GHCND:USC00251361
 Elev: 5171 ft. Lat: 41.010° N Lon: 103.877° 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	13.1	26.6				0	0	0	0	0	0	882	944	1037	1192	0.0	0.0	7.4	7.8	30.6	4.1
2	42.8	14.0	28.4				0	0	0	0	0	0	745	801	884	1025	0.0	0.0	8.1	4.6	27.7	2.6
3	49.7	20.6	35.2				1	-7777	-7777	0	0	0	616	678	770	925	0.0	0.0	15.4	3.0	28.8	0.6
4	57.6	28.4	43.0				4	2	1	-7777	0	0	364	422	510	660	0.0	0.0	22.5	0.6	20.8	0.0
5	67.7	37.8	52.8				67	44	21	5	1	-7777	137	176	246	385	0.0	0.3	28.9	0.0	5.3	0.0
6	78.0	47.9	63.0				258	210	143	60	18	10	20	31	54	121	0.0	3.4	29.8	0.0	0.1	0.0
7	86.3	53.1	69.7				457	396	306	166	59	32	1	3	5	20	0.0	11.1	31.0	0.0	0.0	0.0
8	84.2	52.6	68.4				416	356	268	138	44	23	1	3	8	33	0.3	6.1	31.0	0.0	0.0	0.0
9	75.6	41.9	58.8				162	123	76	26	3	1	49	71	114	213	0.0	1.8	29.9	0.0	2.4	0.0
10	61.9	30.4	46.2				21	11	3	-7777	-7777	0	295	348	433	584	0.0	0.1	25.1	1.0	16.6	0.0
11	48.6	20.1	34.4				1	-7777	-7777	0	0	0	620	680	770	919	0.0	0.0	13.6	2.9	27.5	0.3
12	39.2	11.7	25.5				-7777	0	0	0	0	0	916	978	1070	1226	0.0	0.0	6.5	8.4	30.5	4.4
Summary	61.0	31.0	46.0	9999	9999	9999	1387	1142	818	395	125	66	4646	5135	5901	7303	0.3	22.8	249.2	28.3	190.3	12.0

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

Station: **BUSHNELL 15 S, NE US**

GHCND:USC00251361
Elev: 5171 ft. Lat: 41.010° N Lon: 103.877° 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	0.29	@	@	@	@			
2	0.36	@	@	@	@			
3	0.94	@	@	@	@			
4	1.53	@	@	@	@			
5	2.56	@	@	@	@			
6	2.73	@	@	@	@			
7	2.91	@	@	@	@			
8	1.99	@	@	@	@			
9	1.37	@	@	@	@			
10	1.13	@	@	@	@			
11	0.52	@	@	@	@			
12	0.45	@	@	@	@			
Summary	16.78	9999	9999	9999	9999	9999	9999	9999

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Station: **BUSHNELL 15 S, NE US**

GHCND:USC00251361
Elev: 5171 ft. Lat: 41.010° N Lon: 103.877° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	11	58	155	402	688	920	879	563	240	54	9
45	2	2	23	73	264	539	765	725	417	139	21	2
50	-7777	-7777	6	24	149	393	610	570	279	65	6	-7777
55	0	0	1	4	67	258	457	416	162	21	1	-7777
60	0	0	-7777	1	21	143	306	268	76	3	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	23	27	81	148	279	424	571	554	382	209	71	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	21	79	234	636	1324	2244	3123	3686	3926	3980	3989
45	2	4	27	100	364	903	1668	2393	2810	2949	2970	2972
50	-7777	-7777	6	30	179	572	1182	1752	2031	2096	2102	-7777
55	0	0	1	5	72	330	787	1203	1365	1386	1387	-7777
60	0	0	-7777	1	22	165	471	739	815	818	-7777	818
Growing Degree Units for Corn (Monthly)												
50/86	23	50	131	279	558	982	1553	2107	2489	2698	2769	2787

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: **YORK, NE US**

GHCND:USC00259510

Elev: 1611 ft. Lat: 40.868° N Lon: 97.592° 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	15.7	25.9	6.8	5.3	5.9	0	0	0	0	0	0	900	962	1055	1210	0.0	0.0	5.2	12.4	30.0	3.7
2	40.8	19.2	30.0	7.1	5.4	6.0	-7777	-7777	-7777	0	0	0	700	756	840	980	0.0	0.0	7.7	7.4	24.8	2.3
3	51.6	28.7	40.1	5.0	3.6	4.0	13	8	4	1	-7777	-7777	473	531	619	771	0.0	-7777	16.4	2.4	19.4	0.3
4	64.3	39.5	51.9	4.8	3.0	3.6	86	66	41	17	5	3	179	219	284	410	0.0	0.7	25.7	0.1	5.4	0.0
5	74.6	52.1	63.3	3.7	3.0	3.2	282	234	168	82	30	18	24	37	65	134	0.0	2.1	30.9	0.0	0.1	0.0
6	85.2	62.5	73.9	3.4	2.6	2.9	566	507	419	279	158	118	1	1	4	14	0.6	9.3	30.0	0.0	0.0	0.0
7	89.4	67.5	78.5	3.0	2.3	2.5	727	665	572	418	270	215	0	-7777	-7777	1	1.9	15.2	31.0	0.0	0.0	0.0
8	87.0	64.8	75.9	3.5	2.8	3.0	648	586	493	342	204	156	-7777	-7777	1	5	1.5	10.6	31.0	0.0	0.0	0.0
9	79.6	55.0	67.3	3.6	2.4	2.8	381	327	253	147	70	48	12	18	34	78	0.1	4.6	29.8	0.0	0.1	0.0
10	66.9	42.1	54.5	3.6	2.6	2.7	112	83	50	19	6	3	127	161	221	344	0.0	0.7	28.6	0.1	4.0	0.0
11	50.9	29.2	40.1	6.2	4.1	4.9	12	7	3	1	-7777	-7777	461	516	601	749	0.0	-7777	15.8	2.5	18.3	0.1
12	38.1	18.6	28.3	6.4	5.7	5.9	-7777	0	0	0	0	0	826	888	981	1136	0.0	0.0	6.2	9.5	28.8	2.2
Summary	63.7	41.2	52.5	4.8	3.6	4.0	2827	2483	2003	1306	743	561	3703	4089	4705	5832	4.1	43.2	258.3	34.4	130.9	8.6

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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: **YORK, NE US**

GHCND:USC00259510

Elev: 1611 ft. Lat: 40.868° N Lon: 97.592° 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	0.75	4.2	2.4	0.3	-7777	0.39	0.63	0.89
2	0.68	4.9	2.0	0.3	-7777	0.46	0.67	0.90
3	2.21	7.0	4.4	1.4	0.5	1.03	1.98	3.17
4	2.66	8.0	5.1	1.7	0.6	1.35	2.69	3.39
5	4.73	11.3	8.3	3.7	1.4	2.74	4.85	6.33
6	4.40	9.7	6.1	2.6	1.1	2.93	3.47	6.28
7	3.73	8.1	5.3	2.4	1.2	1.99	3.31	5.06
8	3.30	8.6	5.4	2.5	0.9	2.16	3.22	4.37
9	2.45	6.8	4.5	1.5	0.6	1.27	2.34	3.10
10	2.09	6.5	3.9	1.3	0.6	0.69	1.66	3.02
11	1.56	5.8	3.2	1.0	0.5	0.54	1.19	2.11
12	0.89	4.9	2.3	0.5	-7777	0.28	0.76	1.18
Summary	29.45	85.8	52.9	19.2	7.4	15.83	26.77	39.80

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 1981-2010**

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Station: **YORK, NE US**

GHCND:USC00259510
 Elev: 1611 ft. Lat: 40.868° N Lon: 97.592° 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	3.0	2.1	0.9	0.4	-7777	@	@	@	@	1.2	5.5	8.6
2	4.4	3.2	2.4	0.7	0.3	0.0	@	@	@	@	2.0	5.5	6.0
3	4.9	2.0	1.4	0.6	0.4	-7777	@	@	@	@	0.3	4.7	6.7
4	1.0	0.4	0.4	0.1	0.0	0.0	@	@	@	@	0.0	0.0	2.0
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	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.6	0.1	0.1	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	2.9	1.7	1.1	0.3	0.1	0.0	@	@	@	@	0.5	1.2	3.2
12	4.2	2.6	1.8	0.6	0.2	0.0	@	@	@	@	1.0	2.9	6.2
Summary	23.7	13.0	9.3	3.3	1.4	0.0	9999	9999	9999	9999	5.0	19.8	32.7

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Asheville, North Carolina 28801
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Station: **YORK, NE US**

GHCND:USC00259510

Elev: 1611 ft. Lat: 40.868° N Lon: 97.592° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	35	141	375	724	1015	1192	1113	819	459	135	17
45	3	13	76	253	570	865	1037	958	670	323	75	4
50	-7777	3	34	155	419	715	882	803	523	205	35	1
55	0	-7777	13	86	282	566	727	648	381	112	12	-7777
60	0	-7777	4	41	168	419	572	493	253	50	3	0
Growing Degree Units for Corn (Monthly)												
50/86	18	34	104	234	438	672	804	747	519	282	93	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	49	190	565	1289	2304	3496	4609	5428	5887	6022	6039
45	3	16	92	345	915	1780	2817	3775	4445	4768	4843	4847
50	-7777	3	37	192	611	1326	2208	3011	3534	3739	3774	3775
55	0	-7777	13	99	381	947	1674	2322	2703	2815	2827	-7777
60	0	-7777	4	45	213	632	1204	1697	1950	2000	2003	2003
Growing Degree Units for Corn (Monthly)												
50/86	18	52	156	390	828	1500	2304	3051	3570	3852	3945	3962

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: **MERRIMAN, NE US**

GHCND:USC00255470

Elev: 3235 ft. Lat: 42.919° N Lon: 101.709° 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	14.3	25.3	5.9	5.3	5.4	0	0	0	0	0	0	922	984	1077	1232	0.0	0.0	4.7	10.5	29.3	4.7
2	39.9	16.8	28.4	6.4	5.9	6.1	-7777	-7777	0	0	0	0	746	802	886	1026	0.0	0.0	7.6	8.2	25.6	3.5
3	48.9	24.8	36.8	5.1	3.9	4.3	6	3	1	-7777	0	0	569	628	719	873	0.0	0.0	15.4	4.3	24.1	1.1
4	59.6	34.1	46.8	4.5	2.7	3.4	43	30	17	5	1	1	287	335	411	549	0.0	0.3	22.4	0.9	11.9	0.0
5	70.3	44.6	57.5	4.4	2.8	3.3	161	126	82	32	9	4	86	112	161	266	-7777	1.4	29.6	0.0	1.9	0.0
6	80.4	54.0	67.2	4.2	3.0	3.4	375	320	243	135	59	40	9	14	27	69	0.6	5.7	29.9	0.0	0.0	0.0
7	88.3	60.1	74.2	3.7	2.5	3.0	595	534	442	295	167	124	-7777	1	3	10	2.7	13.8	31.0	0.0	0.0	0.0
8	87.0	58.2	72.6	3.2	2.5	2.8	547	486	397	255	134	95	1	3	6	20	1.4	12.4	31.0	0.0	0.0	0.0
9	77.6	47.6	62.6	4.0	2.9	3.1	268	223	163	85	35	23	40	55	85	157	0.3	5.3	29.3	0.0	1.3	0.0
10	63.2	35.5	49.3	3.9	2.3	2.8	58	41	22	6	1	-7777	233	278	352	491	0.0	0.6	25.3	0.6	9.9	-7777
11	47.6	23.8	35.7	6.5	4.7	5.5	5	3	1	-7777	0	0	583	642	730	879	0.0	0.0	13.2	4.5	22.8	0.8
12	36.7	14.7	25.7	6.4	5.9	6.0	-7777	-7777	0	0	0	0	908	970	1063	1218	0.0	0.0	5.8	10.4	29.4	4.6
Summary	61.3	35.7	48.5	4.9	3.7	4.1	2058	1766	1368	813	406	287	4384	4824	5520	6790	5.0	39.5	245.2	39.4	156.2	14.7

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Station: **MERRIMAN, NE US**

GHCND:USC00255470

Elev: 3235 ft. Lat: 42.919° N Lon: 101.709° 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	0.32	3.1	1.0	-7777	0.0	0.09	0.23	0.57
2	0.51	4.1	1.6	0.1	0.0	0.22	0.41	0.74
3	0.96	5.8	2.9	0.4	-7777	0.56	0.94	1.24
4	1.87	7.7	4.7	1.0	0.2	1.04	1.55	2.46
5	2.79	9.6	6.2	1.9	0.7	1.53	2.42	3.94
6	3.58	9.8	6.3	2.7	0.8	1.98	3.67	4.83
7	2.90	8.5	5.5	2.1	0.6	1.38	2.79	3.79
8	2.12	6.7	4.3	1.1	0.4	1.41	2.15	2.72
9	1.61	6.2	3.6	1.0	0.2	0.75	1.45	2.25
10	1.37	5.8	3.3	1.0	0.2	0.46	1.21	2.13
11	0.67	4.0	2.0	0.3	-7777	0.15	0.52	1.00
12	0.41	3.5	1.3	0.1	0.0	0.17	0.29	0.54
Summary	19.11	74.8	42.7	11.7	3.1	9.74	17.63	26.21

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **MERRIMAN, NE US**

GHCND:USC00255470
 Elev: 3235 ft. Lat: 42.919° N Lon: 101.709° 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	2.9	1.5	0.4	0.1	0.0	11.8	6.8	3.8	1.1	1.2	2.0	6.0
2	4.3	3.6	2.0	0.4	0.1	0.0	10.1	4.6	2.1	0.3	1.5	3.7	6.0
3	6.6	3.8	2.2	0.8	0.3	-7777	6.5	3.7	2.1	0.4	3.3	5.3	8.5
4	4.8	2.3	1.5	0.7	0.3	0.0	2.1	1.1	0.6	0.1	0.6	3.5	7.0
5	0.5	0.2	0.1	0.1	-7777	0.0	0.1	0.1	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	0.3	0.2	0.1	-7777	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	2.2	1.2	0.8	0.3	0.1	0.0	1.2	0.6	0.1	0.0	0.0	0.6	3.0
11	6.3	3.3	2.1	0.8	0.3	-7777	6.8	4.2	2.3	0.5	1.5	3.5	10.2
12	4.5	3.3	2.0	0.3	0.2	0.0	13.0	6.2	3.4	1.8	2.0	3.2	6.0
Summary	33.2	20.8	12.3	3.8	1.4	0.0	51.7	27.3	14.4	4.2	10.1	21.8	46.7

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Station: **MERRIMAN, NE US**

GHCND:USC00255470
Elev: 3235 ft. Lat: 42.919° N Lon: 101.709° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	28	101	259	543	816	1060	1010	680	328	88	17
45	3	8	48	161	399	666	905	855	535	213	44	4
50	-7777	1	19	89	268	518	750	701	395	121	17	1
55	0	-7777	6	43	161	375	595	547	268	58	5	-7777
60	0	0	1	17	82	243	442	397	163	22	1	0
Growing Degree Units for Corn (Monthly)												
50/86	14	28	88	177	331	508	677	645	425	227	74	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	41	142	401	944	1760	2820	3830	4510	4838	4926	4943
45	3	11	59	220	619	1285	2190	3045	3580	3793	3837	3841
50	-7777	1	20	109	377	895	1645	2346	2741	2862	2879	2880
55	0	-7777	6	49	210	585	1180	1727	1995	2053	2058	-7777
60	0	0	1	18	100	343	785	1182	1345	1367	1368	1368
Growing Degree Units for Corn (Monthly)												
50/86	14	42	130	307	638	1146	1823	2468	2893	3120	3194	3212

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: **BLAIR, NE US**

GHCND:USC00250930

Elev: 1089 ft. Lat: 41.554° N Lon: 96.141° 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	32.9	13.0	22.9	6.2	5.9	5.9	0	0	0	0	0	0	993	1055	1148	1303	0.0	0.0	3.1	14.4	30.2	5.7
2	37.0	16.7	26.8	6.8	5.6	6.0	-7777	-7777	-7777	-7777	0	0	788	844	928	1068	0.0	0.0	5.8	10.2	25.6	3.5
3	49.8	26.7	38.2	5.2	3.7	4.1	9	5	2	1	-7777	0	528	587	677	830	0.0	0.0	15.0	3.1	21.5	0.3
4	62.6	37.5	50.1	4.7	3.1	3.6	62	45	27	11	3	1	210	254	326	459	0.0	0.3	24.7	-7777	8.4	0.0
5	72.7	49.4	61.1	3.7	3.5	3.3	222	177	119	50	15	8	35	52	87	173	0.0	0.8	30.7	0.0	0.5	0.0
6	81.5	60.0	70.8	3.0	2.3	2.5	474	415	329	198	95	65	1	3	7	25	-7777	3.6	30.0	0.0	0.0	0.0
7	85.7	64.3	75.0	3.0	2.7	2.7	620	558	465	312	172	125	0	-7777	-7777	2	0.4	8.1	31.0	0.0	0.0	0.0
8	83.6	62.2	72.9	3.2	3.0	2.9	555	493	401	255	130	92	-7777	-7777	1	10	0.3	6.2	31.0	0.0	0.0	0.0
9	76.3	52.7	64.5	3.2	2.9	2.8	304	254	186	96	37	22	19	29	51	111	0.0	1.8	29.8	0.0	0.3	0.0
10	64.2	40.5	52.4	5.7	2.9	3.8	73	52	29	10	2	1	155	196	266	402	0.0	0.2	28.2	0.1	5.6	0.0
11	48.8	27.6	38.2	6.0	4.3	4.9	6	4	1	-7777	0	0	510	568	655	804	0.0	0.0	13.7	3.2	20.1	0.2
12	34.8	16.4	25.6	6.4	6.4	6.3	-7777	-7777	0	0	0	0	911	973	1066	1221	0.0	0.0	3.3	12.2	29.1	3.5
Summary	60.8	38.9	49.9	4.8	3.9	4.1	2325	2003	1559	933	454	314	4150	4561	5212	6408	0.7	21.0	246.3	43.2	141.3	13.2

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1981-2010**

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

Station: **BLAIR, NE US**

GHCND:USC00250930

Elev: 1089 ft. Lat: 41.554° N Lon: 96.141° 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	0.76	4.4	2.1	0.5	-7777	0.37	0.72	1.03
2	0.70	4.7	2.2	0.2	-7777	0.39	0.64	0.97
3	2.54	6.6	4.5	1.7	0.7	1.08	2.12	3.59
4	3.16	9.0	6.1	2.2	0.8	1.78	3.03	3.77
5	4.19	11.6	8.5	2.9	1.0	2.46	3.94	5.38
6	4.98	10.0	7.6	3.3	1.7	3.00	5.13	6.02
7	3.88	9.0	6.3	2.8	1.1	2.09	3.67	4.89
8	3.23	7.9	5.6	1.8	0.8	1.46	2.73	4.27
9	3.10	6.9	4.7	1.7	1.0	1.77	2.51	4.06
10	2.23	5.8	3.9	1.4	0.5	0.93	1.52	3.50
11	1.58	5.1	3.1	1.0	0.4	0.95	1.44	2.18
12	1.34	5.0	2.5	0.5	0.2	0.56	0.98	1.32
Summary	31.69	86.0	57.1	20.0	8.2	16.84	28.43	40.98

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Station: **BLAIR, NE US**

GHCND:USC00250930
 Elev: 1089 ft. Lat: 41.554° N Lon: 96.141° 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	3.1	1.9	0.5	0.2	-7777	@	@	@	@	0.0	4.8	8.3
2	5.6	2.9	1.9	0.6	0.2	0.0	@	@	@	@	1.0	6.0	8.8
3	5.6	1.7	1.4	0.8	0.3	-7777	@	@	@	@	0.0	4.5	8.5
4	2.0	0.5	0.4	0.2	0.1	0.1	@	@	@	@	0.0	0.0	1.7
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	0.3	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	2.3	1.6	0.8	0.2	0.1	0.0	@	@	@	@	0.5	1.6	3.7
12	7.5	3.5	2.0	1.0	0.3	0.0	@	@	@	@	4.9	6.7	10.0
Summary	28.7	13.4	8.5	3.3	1.2	0.1	9999	9999	9999	9999	6.4	23.6	41.0

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Station: **BLAIR, NE US**

GHCND:USC00250930
Elev: 1089 ft. Lat: 41.554° N Lon: 96.141° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	19	111	324	653	922	1085	1020	735	395	105	9
45	1	5	57	209	500	772	930	865	586	263	53	2
50	-7777	1	25	120	352	622	775	710	440	152	21	-7777
55	0	-7777	9	62	222	474	620	555	304	73	6	-7777
60	0	-7777	2	27	119	329	465	401	186	29	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	19	88	210	394	607	736	682	462	240	72	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	25	136	460	1113	2035	3120	4140	4875	5270	5375	5384
45	1	6	63	272	772	1544	2474	3339	3925	4188	4241	4243
50	-7777	1	26	146	498	1120	1895	2605	3045	3197	3218	-7777
55	0	-7777	9	71	293	767	1387	1942	2246	2319	2325	-7777
60	0	-7777	2	29	148	477	942	1343	1529	1558	1559	1559
Growing Degree Units for Corn (Monthly)												
50/86	8	27	115	325	719	1326	2062	2744	3206	3446	3518	3526

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: **BUTTE, NE US**

GHCND:USC00251365

Elev: 1811 ft. Lat: 42.913° N Lon: 98.851° 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	32.0	10.5	21.2	7.0	6.3	6.5	0	0	0	0	0	0	1046	1108	1201	1356	0.0	0.0	2.8	14.7	30.4	7.2
2	35.9	13.8	24.9	7.3	6.1	6.5	-7777	-7777	-7777	0	0	0	844	900	984	1124	0.0	0.0	5.4	10.8	26.7	4.8
3	46.7	22.7	34.7	5.3	3.8	4.2	3	1	-7777	-7777	-7777	0	632	693	785	939	0.0	0.0	13.5	5.6	25.5	1.1
4	58.8	33.4	46.1	4.9	2.9	3.6	37	27	15	5	1	1	304	353	432	572	0.0	0.2	22.2	0.7	13.3	0.0
5	69.7	45.2	57.5	3.4	3.0	3.0	152	117	74	27	7	3	76	103	153	261	0.0	0.5	30.0	0.0	1.8	0.0
6	79.5	55.6	67.5	3.3	3.1	3.0	381	325	245	132	56	36	4	8	19	55	0.1	2.4	29.9	0.0	0.0	0.0
7	85.9	61.5	73.7	3.5	2.2	2.7	580	518	425	277	149	108	-7777	-7777	1	7	0.8	9.2	31.0	0.0	0.0	0.0
8	84.1	59.5	71.8	3.0	2.5	2.6	521	460	370	228	112	76	1	2	4	18	0.2	7.0	31.0	0.0	0.0	0.0
9	75.5	48.8	62.1	3.8	2.4	2.8	248	204	146	72	27	16	34	49	81	158	-7777	2.6	29.7	0.0	1.1	0.0
10	62.0	36.4	49.2	3.9	2.4	2.7	49	34	17	4	1	-7777	229	276	352	494	0.0	0.2	26.0	0.4	9.5	0.0
11	45.4	23.4	34.4	6.8	4.1	5.3	2	1	-7777	-7777	0	0	620	679	768	918	0.0	0.0	11.8	5.5	24.4	0.8
12	32.6	12.4	22.5	7.2	6.1	6.5	0	0	0	0	0	0	1007	1069	1162	1317	0.0	0.0	3.4	13.9	30.4	5.5
Summary	59.0	35.3	47.1	5.0	3.7	4.1	1973	1687	1292	745	353	240	4797	5240	5942	7219	1.1	22.1	236.7	51.6	163.1	19.4

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Station: **BUTTE, NE US**

GHCND:USC00251365

Elev: 1811 ft. Lat: 42.913° N Lon: 98.851° 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	0.51	3.8	1.3	0.2	-7777	0.21	0.37	0.58
2	0.64	4.4	2.0	0.2	0.0	0.24	0.59	0.97
3	1.64	6.4	4.0	0.9	0.3	0.77	1.31	2.28
4	2.91	8.3	6.1	2.1	0.6	1.44	2.55	4.17
5	3.89	9.2	7.0	2.8	0.8	2.41	3.81	4.54
6	3.82	9.3	6.5	2.5	1.0	2.17	3.58	5.31
7	2.86	7.1	5.1	2.0	0.6	1.31	2.60	3.98
8	2.94	6.7	4.9	1.9	0.7	1.70	2.81	3.90
9	2.64	5.8	4.4	1.6	0.8	1.10	2.44	3.76
10	2.24	5.4	4.0	1.6	0.7	0.82	1.52	2.82
11	1.03	4.4	2.4	0.5	0.1	0.38	0.87	1.62
12	0.51	3.6	1.7	0.1	-7777	0.17	0.45	0.70
Summary	25.63	74.4	49.4	16.4	5.6	12.72	22.90	34.63

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: BUTTE, NE US

GHCND:USC00251365
 Elev: 1811 ft. Lat: 42.913° N Lon: 98.851° 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	5.1	2.9	1.8	0.6	0.2	-7777	@	@	@	@	2.0	4.1	8.0
2	4.9	3.0	2.1	0.6	0.2	0.0	@	@	@	@	1.0	3.8	7.8
3	6.4	3.0	2.3	0.8	0.3	-7777	@	@	@	@	2.5	6.0	9.5
4	3.4	1.1	1.1	0.4	0.3	-7777	@	@	@	@	0.0	1.5	5.3
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	0.1	-7777	-7777	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.9	0.5	0.4	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.3
11	5.1	2.4	1.9	0.8	0.2	-7777	@	@	@	@	0.5	3.0	9.5
12	5.8	2.8	2.0	0.6	0.3	0.0	@	@	@	@	2.0	6.1	9.0
Summary	31.7	15.7	11.6	3.9	1.5	0.0	9999	9999	9999	9999	8.0	24.5	49.4

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Station: **BUTTE, NE US**

GHCND:USC00251365
Elev: 1811 ft. Lat: 42.913° N Lon: 98.851° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	14	75	235	542	826	1044	986	665	317	68	5
45	1	4	34	141	394	676	889	831	518	201	32	1
50	-7777	1	12	76	261	527	734	676	377	110	11	-7777
55	0	-7777	3	37	152	381	580	521	248	49	2	0
60	0	-7777	-7777	15	74	245	425	370	146	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	9	19	71	165	328	526	690	648	416	208	58	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	94	329	871	1697	2741	3727	4392	4709	4777	4782
45	1	5	39	180	574	1250	2139	2970	3488	3689	3721	3722
50	-7777	1	13	89	350	877	1611	2287	2664	2774	2785	-7777
55	0	-7777	3	40	192	573	1153	1674	1922	1971	1973	1973
60	0	-7777	-7777	15	89	334	759	1129	1275	1292	-7777	1292
Growing Degree Units for Corn (Monthly)												
50/86	9	28	99	264	592	1118	1808	2456	2872	3080	3138	3146

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

Station: **NORFOLK 4 W, NE US**

GHCND:USC00255997

Elev: 1545 ft. Lat: 42.029° N Lon: 97.486° 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	32.4	8.8	20.6	6.2	6.0	6.0	0	0	0	0	0	0	1066	1128	1221	1376	0.0	0.0	3.2	14.4	30.8	7.4
2	36.4	14.2	25.3	7.0	6.1	6.3	-7777	-7777	-7777	0	0	0	832	888	972	1111	0.0	0.0	5.1	10.8	26.9	3.9
3	47.5	23.6	35.6	5.3	3.8	4.3	4	2	1	-7777	0	0	607	667	758	913	0.0	0.0	13.1	3.6	25.3	0.6
4	60.2	34.7	47.5	4.6	3.1	3.6	35	24	11	3	-7777	-7777	262	310	387	530	0.0	0.1	24.4	0.2	12.1	0.0
5	71.5	46.5	59.0	4.1	3.5	3.6	177	138	88	35	9	5	53	76	119	221	0.0	0.5	30.5	0.0	0.9	0.0
6	80.9	56.4	68.7	3.3	2.7	2.8	412	355	272	151	61	38	3	6	13	42	0.0	2.9	30.0	0.0	0.0	0.0
7	85.2	61.8	73.5	2.7	2.0	2.2	573	512	420	270	136	94	-7777	-7777	1	7	0.0	6.1	31.0	0.0	0.0	0.0
8	82.9	59.0	71.0	2.9	2.7	2.6	494	433	343	202	90	58	-7777	1	4	17	0.0	3.5	31.0	0.0	0.0	0.0
9	75.6	48.9	62.3	3.3	2.4	2.5	245	198	137	64	22	12	27	41	69	147	0.0	1.3	29.9	0.0	0.9	0.0
10	62.4	35.6	49.0	3.8	2.7	2.8	51	36	20	6	2	1	237	284	361	502	0.0	0.3	26.4	0.2	11.3	0.0
11	46.5	22.5	34.5	6.5	4.4	5.2	2	1	-7777	0	0	0	617	676	765	915	0.0	0.0	11.6	5.2	26.0	0.5
12	32.8	11.4	22.1	7.1	5.7	6.2	0	0	0	0	0	0	1019	1082	1175	1329	0.0	0.0	3.9	14.7	30.7	5.5
Summary	59.5	35.3	47.4	4.7	3.8	4.0	1993	1699	1292	731	320	208	4723	5159	5845	7110	0.0	14.7	240.1	49.1	164.9	17.9

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

Station: **NORFOLK 4 W, NE US**

GHCND:USC00255997

Elev: 1545 ft. Lat: 42.029° N Lon: 97.486° 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	0.57	5.1	1.8	0.1	0.0	0.37	0.48	0.65
2	0.67	5.0	1.7	0.4	0.0	0.34	0.54	0.94
3	1.84	7.1	3.9	0.9	0.2	0.83	1.76	2.66
4	2.73	9.3	5.5	1.8	0.8	1.96	2.44	3.41
5	4.03	10.2	6.2	2.9	1.3	2.33	3.64	5.90
6	4.79	10.9	7.1	3.4	1.6	3.16	4.59	6.36
7	3.52	7.5	4.3	1.9	0.9	2.11	2.94	4.68
8	3.93	8.4	5.6	2.2	1.2	2.42	4.18	5.22
9	2.65	7.3	4.3	1.9	0.6	1.63	2.56	3.17
10	2.33	8.2	4.8	1.9	0.8	1.13	1.61	3.31
11	1.56	4.6	2.6	0.7	0.3	0.82	1.33	2.25
12	0.81	5.4	1.9	0.6	0.0	0.35	0.72	1.01
Summary	29.43	89.0	49.7	18.7	7.7	17.45	26.79	39.56

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Station: **NORFOLK 4 W, NE US**

GHCND:USC00255997
 Elev: 1545 ft. Lat: 42.029° N Lon: 97.486° 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	6.0	3.9	1.8	0.9	0.4	0.0	16.8	10.4	5.6	1.9	1.7	7.2	9.1
2	4.8	3.4	2.0	0.6	0.2	0.0	13.3	6.6	4.4	0.4	2.4	3.7	6.1
3	4.1	2.2	1.3	0.3	0.2	0.0	5.2	1.8	1.1	0.3	0.3	2.0	4.7
4	1.0	0.7	0.3	0.1	0.1	0.0	0.5	0.2	0.2	0.0	0.0	0.0	0.8
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	0.3	0.2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
11	2.0	1.2	0.9	0.2	0.0	0.0	2.5	1.4	0.7	0.0	0.0	1.5	2.7
12	6.9	3.4	2.1	0.5	0.4	0.0	10.5	6.2	4.8	1.5	1.0	2.4	13.8
Summary	25.2	15.1	8.6	2.7	1.3	0.0	49.0	26.6	16.8	4.1	5.4	16.8	37.2

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Station: **NORFOLK 4 W, NE US**

GHCND:USC00255997

Elev: 1545 ft. Lat: 42.029° N Lon: 97.486° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	14	76	259	589	859	1038	959	667	308	64	3
45	1	4	36	156	438	709	883	804	519	193	28	-7777
50	-7777	1	14	81	296	560	728	649	376	106	10	0
55	0	-7777	4	35	177	412	573	494	245	51	2	0
60	0	-7777	1	11	88	272	420	343	137	20	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	10	17	70	176	357	556	700	636	422	212	61	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	94	353	942	1801	2839	3798	4465	4773	4837	4840
45	1	5	41	197	635	1344	2227	3031	3550	3743	3771	-7777
50	-7777	1	15	96	392	952	1680	2329	2705	2811	2821	2821
55	0	-7777	4	39	216	628	1201	1695	1940	1991	1993	1993
60	0	-7777	1	12	100	372	792	1135	1272	1292	-7777	1292
Growing Degree Units for Corn (Monthly)												
50/86	10	27	97	273	630	1186	1886	2522	2944	3156	3217	3225

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: **LINCOLN UNIVERSITY POWER PLANT, NE US**

GHCND:USW00014971

Elev: 1161 ft. Lat: 40.823° N Lon: 96.702° 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	13.7	24.4	6.2	5.5	5.6	-7777	0	0	0	0	0	948	1010	1103	1258	0.0	0.0	4.4	13.3	30.2	4.7
2	39.6	18.2	28.9	6.6	6.1	6.2	-7777	-7777	-7777	0	0	0	731	787	871	1010	0.0	0.0	7.7	9.0	25.2	2.3
3	51.5	27.8	39.7	5.0	3.2	3.8	11	7	3	1	-7777	-7777	487	545	634	786	0.0	0.0	16.5	2.9	20.0	0.1
4	63.6	38.7	51.1	4.3	2.8	3.3	80	60	38	15	5	2	195	236	303	431	0.0	0.6	25.0	0.1	7.8	0.0
5	73.6	50.2	61.9	3.6	2.8	3.0	244	198	137	58	17	9	30	46	78	154	0.0	1.5	30.7	0.0	0.2	0.0
6	83.7	61.1	72.4	3.6	3.1	3.1	523	464	378	243	130	94	1	2	6	21	0.4	6.4	30.0	0.0	0.0	0.0
7	88.6	66.9	77.8	3.2	2.6	2.7	705	643	550	396	249	196	0	0	0	1	2.3	13.3	31.0	0.0	0.0	0.0
8	85.9	63.7	74.8	3.4	2.8	3.0	614	552	459	311	180	137	-7777	-7777	1	7	1.5	9.4	31.0	0.0	0.0	0.0
9	78.2	53.5	65.8	3.2	2.5	2.6	344	293	223	125	56	37	19	28	47	100	0.1	3.4	29.7	0.0	0.6	0.0
10	66.1	40.7	53.4	3.5	2.5	2.5	90	64	36	11	2	1	139	176	240	371	0.0	0.1	28.8	0.0	4.9	0.0
11	50.8	28.2	39.5	6.0	3.7	4.7	7	3	1	-7777	-7777	0	472	528	616	765	0.0	0.0	16.1	2.5	19.8	0.0
12	37.1	17.1	27.1	6.0	6.1	5.9	0	0	0	0	0	0	865	926	1019	1175	0.0	0.0	4.4	9.1	30.0	2.1
Summary	62.8	40.0	51.4	4.6	3.6	3.9	2618	2284	1825	1160	639	476	3887	4284	4918	6079	4.3	34.7	255.3	36.9	138.7	9.2

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Station: **LINCOLN UNIVERSITY POWER PLANT, NE US**

GHCND:USW00014971

Elev: 1161 ft. Lat: 40.823° N Lon: 96.702° 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	0.63	4.1	1.9	0.2	0.0	0.37	0.57	0.96
2	0.85	3.9	2.1	0.3	0.0	0.42	0.76	1.03
3	2.08	5.7	3.6	1.4	0.4	0.98	1.88	2.91
4	2.63	7.2	5.3	2.0	0.6	1.90	2.52	3.28
5	4.65	9.6	7.6	3.0	1.5	2.81	3.73	6.33
6	4.77	8.9	6.8	3.4	1.6	3.15	4.82	6.22
7	3.87	6.6	5.2	2.7	1.2	1.96	3.41	4.70
8	3.85	7.4	5.3	3.0	1.3	1.81	3.54	5.15
9	2.98	6.4	4.7	2.0	1.1	1.43	2.89	4.17
10	2.18	5.1	3.8	1.2	0.5	1.03	1.70	3.20
11	1.39	3.9	2.3	0.9	0.4	0.83	1.28	2.10
12	0.98	4.5	2.6	0.6	0.2	0.35	0.68	1.67
Summary	30.86	73.3	51.2	20.7	8.8	17.04	27.78	41.72

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Station: LINCOLN UNIVERSITY POWER PLANT, NE US

GHCND:USW00014971

Elev: 1161 ft. Lat: 40.823° N Lon: 96.702° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	29	138	355	679	972	1169	1078	775	426	118	8
45	2	10	73	238	525	822	1015	923	627	291	60	1
50	-7777	3	33	144	377	672	860	769	482	176	24	-7777
55	-7777	-7777	11	80	244	523	705	614	344	90	7	0
60	0	-7777	3	38	137	378	550	459	223	36	1	0
Growing Degree Units for Corn (Monthly)												
50/86	13	29	105	225	410	643	790	719	494	266	87	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	39	177	532	1211	2183	3352	4430	5205	5631	5749	5757
45	2	12	85	323	848	1670	2685	3608	4235	4526	4586	4587
50	-7777	3	36	180	557	1229	2089	2858	3340	3516	3540	-7777
55	-7777	-7777	11	91	335	858	1563	2177	2521	2611	2618	2618
60	0	-7777	3	41	178	556	1106	1565	1788	1824	1825	1825
Growing Degree Units for Corn (Monthly)												
50/86	13	42	147	372	782	1425	2215	2934	3428	3694	3781	3792

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **NEWCASTLE, NE US**

GHCND:USC00255895

Elev: 1352 ft. Lat: 42.653° N Lon: 96.873° 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	0.57	4.3	1.7	0.2	-7777	0.31	0.44	0.72
2	0.71	3.9	2.0	0.4	0.1	0.38	0.56	1.04
3	1.99	5.9	4.4	1.3	0.3	1.07	2.04	2.78
4	3.55	8.3	6.0	2.4	1.1	1.83	3.37	4.76
5	3.99	9.7	7.6	2.8	1.0	2.58	3.68	4.42
6	4.31	8.6	6.5	2.9	1.6	2.36	3.64	6.39
7	3.12	6.7	4.6	2.1	0.7	1.61	2.55	3.84
8	2.88	6.8	5.2	2.0	0.8	1.57	2.89	3.72
9	3.15	6.5	4.8	2.1	0.7	2.15	3.06	4.19
10	2.36	5.6	4.0	1.7	0.8	0.72	1.65	4.49
11	1.63	4.6	3.5	1.1	0.2	0.77	1.42	2.23
12	0.85	4.5	2.2	0.4	0.1	0.35	0.71	1.20
Summary	29.11	75.4	52.5	19.4	7.4	15.70	26.01	39.78

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Station: **NEWCASTLE, NE US**

GHCND:USC00255895
 Elev: 1352 ft. Lat: 42.653° N Lon: 96.873° 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	3.8	2.2	0.6	0.3	-7777	15.3	9.5	6.0	0.5	2.5	5.6	10.0
2	6.0	3.1	2.1	0.8	0.4	0.1	10.4	7.5	5.4	2.6	3.0	4.5	9.0
3	5.3	2.5	1.9	0.9	0.3	-7777	7.3	4.6	3.0	0.7	2.0	3.3	8.1
4	2.4	0.7	0.6	0.3	0.1	-7777	0.8	0.4	0.2	-7777	0.0	0.0	3.0
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	1.0	0.3	0.2	0.1	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.3
11	7.0	2.0	1.7	0.7	0.4	0.1	5.0	2.9	1.5	0.3	1.4	4.7	11.5
12	6.9	3.6	2.3	1.2	0.5	-7777	14.7	8.9	5.6	0.6	3.5	6.6	9.8
Summary	34.5	16.0	11.0	4.6	2.1	0.2	53.9	34.0	21.8	4.7	12.4	24.7	51.7

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

Station: **LAMAR, NE US**

GHCND:USC00254604
Elev: 3540 ft. Lat: 40.530° N Lon: 101.969° 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	0.42	2.2	1.1	0.2	0.0	0.08	0.36	0.60
2	0.33	2.1	1.1	0.1	0.0	0.14	0.24	0.50
3	1.03	3.4	2.2	0.5	0.2	0.37	0.80	1.39
4	1.67	4.5	3.8	1.2	0.3	0.82	1.56	2.15
5	2.81	7.7	5.8	1.8	0.9	1.79	2.47	4.08
6	2.69	6.4	5.2	1.4	0.5	1.67	2.51	3.23
7	3.00	6.5	5.6	2.2	0.7	2.01	2.85	3.56
8	2.41	5.3	4.2	1.4	0.8	1.19	1.90	3.65
9	1.13	4.0	2.9	0.6	0.2	0.52	1.02	1.42
10	1.30	3.0	2.6	0.9	0.4	0.70	1.16	1.89
11	0.56	1.9	1.3	0.3	0.0	0.16	0.36	0.86
12	0.39	1.7	0.9	0.1	0.0	0.01	0.24	0.57
Summary	17.74	48.7	36.7	10.7	4.0	9.46	15.47	23.90

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Station: **LAMAR, NE US**

GHCND:USC00254604
 Elev: 3540 ft. Lat: 40.530° N Lon: 101.969° 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	2.4	1.6	0.6	0.4	0.0	10.8	5.8	3.7	0.4	0.5	4.5	9.0
2	2.9	1.7	1.2	0.3	-7777	0.0	5.5	2.9	0.8	0.0	0.0	3.0	4.5
3	4.6	1.9	1.6	0.5	0.1	-7777	3.3	0.9	0.1	0.0	0.0	3.5	4.5
4	1.4	0.8	0.6	0.4	0.0	0.0	1.2	0.7	0.3	0.0	0.0	0.0	3.0
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	0.4	0.1	0.1	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	1.0	0.4	0.3	0.2	-7777	0.0	0.5	0.2	0.1	0.0	0.0	0.0	0.5
11	3.8	1.5	1.3	0.4	0.2	0.0	2.6	1.4	0.8	0.1	0.5	2.5	4.8
12	3.5	1.7	1.5	0.5	0.1	-7777	7.5	5.0	2.8	0.2	0.0	2.5	5.5
Summary	23.4	10.5	8.2	2.9	0.8	0.0	31.5	16.9	8.6	0.7	1.0	16.0	31.8

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

Station: **SCOTTSBLUFF W B HEILIG FIELD AIRPORT, NE US**

GHCND:USW00024028
Elev: 3944 ft. Lat: 41.870° N Lon: 103.593° 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	40.8	13.7	27.2	5.4	4.3	4.6	-7777	-7777	0	0	0	0	860	922	1015	1170	0.0	0.0	8.0	7.0	30.4	3.8
2	44.4	16.3	30.4	6.0	4.6	5.1	-7777	-7777	0	0	0	0	690	746	830	970	0.0	0.0	10.6	5.1	27.0	2.7
3	52.7	23.8	38.2	4.3	2.7	3.2	2	1	-7777	-7777	0	0	521	582	674	829	0.0	0.0	18.6	2.4	27.1	0.5
4	61.4	31.9	46.7	4.7	2.4	3.2	27	17	8	2	-7777	-7777	277	328	409	552	0.0	0.1	24.0	0.5	15.1	-7777
5	71.6	42.9	57.3	3.9	2.0	2.7	143	108	66	21	4	2	74	101	151	262	-7777	1.0	29.8	0.0	1.9	0.0
6	82.1	52.3	67.2	4.0	2.4	3.0	372	316	238	126	51	32	6	10	22	60	0.6	6.9	30.0	0.0	-7777	0.0
7	89.8	58.3	74.1	3.2	2.0	2.4	590	529	437	287	151	107	-7777	-7777	1	6	2.7	16.5	31.0	0.0	0.0	0.0
8	87.7	56.2	71.9	3.0	1.9	2.3	526	465	374	229	105	67	1	2	4	14	0.8	13.4	31.0	0.0	0.0	0.0
9	77.9	45.4	61.7	3.8	2.5	2.8	238	193	133	58	17	8	39	54	83	159	0.0	4.6	29.4	0.1	1.3	0.0
10	64.1	32.9	48.5	3.9	2.1	2.5	34	21	8	1	-7777	-7777	235	284	365	512	0.0	0.1	26.4	0.5	12.7	0.1
11	50.2	21.5	35.8	5.6	3.6	4.3	1	-7777	-7777	0	0	0	576	635	725	874	0.0	0.0	15.3	3.1	26.6	1.1
12	39.6	12.5	26.1	5.7	4.4	4.9	-7777	0	0	0	0	0	897	959	1052	1207	0.0	0.0	7.3	8.1	30.8	4.5
Summary	63.5	34.0	48.8	4.5	2.9	3.4	1933	1650	1264	724	328	216	4176	4623	5331	6615	4.1	42.6	261.4	26.8	172.9	12.7

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www.ncdc.noaa.gov

Station: **SCOTTSBLUFF W B HEILIG FIELD AIRPORT, NE US**

GHCND:USW00024028
Elev: 3944 ft. Lat: 41.870° N Lon: 103.593° 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	0.41	4.6	1.3	0.1	0.0	0.12	0.39	0.65
2	0.60	5.3	1.9	0.2	0.0	0.22	0.44	0.84
3	1.00	6.8	3.0	0.4	-7777	0.50	0.94	1.36
4	1.83	8.9	4.8	0.9	0.2	0.92	1.64	2.50
5	2.48	11.4	6.0	1.4	0.4	1.24	1.96	3.26
6	2.85	10.8	5.7	1.8	0.6	1.64	2.43	3.90
7	1.83	7.8	4.2	1.1	0.3	0.80	1.70	2.80
8	1.30	7.3	3.1	0.7	0.1	0.58	1.21	1.66
9	1.18	7.2	3.3	0.6	0.1	0.63	0.94	1.79
10	1.14	6.5	3.0	0.5	0.2	0.68	0.91	1.42
11	0.66	5.2	2.1	0.3	-7777	0.26	0.57	0.95
12	0.51	5.4	1.7	-7777	0.0	0.20	0.47	0.72
Summary	15.79	87.2	40.1	8.0	1.9	7.79	13.60	21.85

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Station: **SCOTTSBLUFF W B HEILIG FIELD AIRPORT, NE US**

GHCND:USW00024028
 Elev: 3944 ft. Lat: 41.870° N Lon: 103.593° 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	5.4	4.4	1.5	0.5	0.3	0.0	9.9	4.7	2.1	0.1	1.7	5.3	7.8
2	7.0	4.4	2.4	0.8	0.2	-7777	6.7	3.4	2.2	0.6	2.2	3.8	11.0
3	7.8	4.7	2.5	0.9	0.2	0.0	4.8	2.2	0.8	0.1	4.3	7.2	10.6
4	5.4	2.9	1.7	0.6	0.3	-7777	1.7	0.7	0.4	0.0	2.0	3.4	7.6
5	0.5	0.3	0.2	-7777	-7777	0.0	0.1	-7777	-7777	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	0.5	0.3	0.2	0.1	0.0	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	2.7	1.5	0.9	0.4	0.1	0.0	0.9	0.5	0.2	-7777	0.0	0.6	3.3
11	5.7	3.6	1.9	0.7	0.1	0.0	4.5	2.2	1.0	-7777	2.2	4.3	10.4
12	7.1	4.9	2.3	0.7	0.2	0.0	10.4	5.5	2.7	0.4	3.1	5.6	11.1
Summary	42.1	27.0	13.6	4.7	1.4	0.0	39.1	19.2	9.4	1.2	15.5	30.2	61.8

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Station: **SCOTTSBLUFF W B HEILIG FIELD AIRPORT, NE US**

GHCND:USW00024028
Elev: 3944 ft. Lat: 41.870° N Lon: 103.593° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	23	92	239	536	816	1055	990	651	295	74	10
45	2	6	37	138	388	666	900	835	505	178	32	2
50	-7777	1	11	68	254	517	745	680	365	89	9	-7777
55	-7777	-7777	2	27	143	372	590	526	238	34	1	-7777
60	0	0	-7777	8	66	238	437	374	133	8	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	43	110	194	339	506	661	624	418	236	87	23

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	35	127	366	902	1718	2773	3763	4414	4709	4783	4793
45	2	8	45	183	571	1237	2137	2972	3477	3655	3687	3689
50	-7777	1	12	80	334	851	1596	2276	2641	2730	2739	-7777
55	-7777	-7777	2	29	172	544	1134	1660	1898	1932	1933	-7777
60	0	0	-7777	8	74	312	749	1123	1256	1264	-7777	1264
Growing Degree Units for Corn (Monthly)												
50/86	25	68	178	372	711	1217	1878	2502	2920	3156	3243	3266

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: **ORCHARD 1 NW, NE US**

GHCND:USC00256325

Elev: 1929 ft. Lat: 42.349° N Lon: 98.254° 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	4.7	1.9	0.5	0.0	0.24	0.56	0.91
2	0.73	4.2	2.4	0.3	0.0	0.33	0.69	1.03
3	1.74	6.2	3.4	0.8	0.4	0.84	1.42	2.39
4	2.60	8.7	6.2	1.8	0.9	1.30	2.34	3.37
5	3.62	9.6	7.5	3.1	1.2	2.20	3.13	4.32
6	4.00	9.8	7.1	2.3	1.1	2.81	3.81	5.01
7	3.52	8.7	6.6	2.9	0.8	2.08	3.30	3.99
8	3.46	6.8	5.1	2.4	0.9	1.85	3.27	5.29
9	2.93	6.8	5.1	1.8	0.5	1.41	2.86	3.46
10	2.20	4.7	3.0	1.3	0.5	0.72	1.66	3.46
11	1.20	5.1	3.4	0.6	0.0	0.40	0.98	1.62
12	0.67	3.9	2.1	0.0	0.0	0.35	0.56	0.83
Summary	27.27	79.2	53.8	17.8	6.3	14.53	24.58	35.68

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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
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 151 Patton Avenue
 Asheville, North Carolina 28801
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Station: **ORCHARD 1 NW, NE US**

GHCND:USC00256325
 Elev: 1929 ft. Lat: 42.349° N Lon: 98.254° 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	3.8	2.7	0.8	0.3	0.0	@	@	@	@	3.0	5.0	9.5
2	5.5	3.2	2.2	0.9	0.2	0.0	@	@	@	@	1.5	6.2	7.5
3	6.4	3.0	2.1	0.7	0.3	0.0	@	@	@	@	1.5	4.1	9.1
4	3.2	1.6	1.6	0.7	0.3	0.1	@	@	@	@	0.0	2.2	6.0
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	0.8	0.4	0.3	0.2	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	4.7	3.0	2.4	0.7	0.3	0.0	@	@	@	@	2.0	5.0	6.5
12	4.9	2.9	2.2	0.7	0.3	0.0	@	@	@	@	2.3	5.0	8.1
Summary	32.6	17.9	13.5	4.7	1.7	0.1	9999	9999	9999	9999	10.3	27.5	46.7

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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: **SWAN LAKE, NE US**

GHCND:USC00258360

Elev: 2329 ft. Lat: 42.184° N Lon: 99.090° 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	35.2	11.3	23.2	6.0	5.8	5.6	0	0	0	0	0	0	984	1046	1139	1294	0.0	0.0	5.4	13.1	31.0	6.0
2	37.8	14.7	26.2	6.9	5.6	6.1	-7777	-7777	-7777	0	0	0	805	861	945	1085	0.0	0.0	6.0	9.8	27.2	3.5
3	47.6	23.4	35.5	5.3	4.0	4.1	4	2	1	0	0	0	609	669	760	914	0.0	0.0	13.6	4.8	25.8	0.8
4	59.5	33.9	46.7	4.8	3.2	3.7	27	16	7	1	-7777	0	276	325	406	550	0.0	0.0	23.0	0.4	12.4	0.0
5	70.0	44.9	57.4	3.3	2.9	2.8	143	106	63	21	5	2	67	92	142	255	0.0	0.4	30.4	0.0	1.6	0.0
6	79.5	54.0	66.8	3.0	2.9	2.7	357	301	223	113	40	22	5	9	21	60	0.0	2.5	30.0	0.0	0.0	0.0
7	85.4	59.1	72.2	3.8	2.6	3.0	535	473	382	235	112	74	-7777	1	2	10	0.6	8.1	31.0	0.0	0.0	0.0
8	84.0	58.0	71.0	3.2	2.5	2.7	496	435	345	205	94	62	-7777	1	4	19	0.3	6.5	31.0	0.0	0.0	0.0
9	75.9	47.6	61.8	3.5	2.6	2.6	235	191	132	62	21	12	33	48	80	159	0.1	1.6	29.7	0.0	1.4	0.0
10	62.9	34.8	48.9	4.1	2.2	2.7	45	30	16	3	-7777	-7777	236	283	361	504	0.0	0.1	26.2	0.4	10.5	0.0
11	46.4	23.6	35.0	7.9	4.4	5.9	2	1	-7777	-7777	0	0	601	661	750	900	0.0	0.0	12.7	5.4	23.9	0.4
12	35.3	13.5	24.4	6.4	5.5	5.8	0	0	0	0	0	0	948	1010	1103	1258	0.0	0.0	4.3	11.5	30.5	4.2
Summary	60.0	34.9	47.4	4.9	3.7	4.0	1844	1555	1169	640	272	172	4564	5006	5713	7008	1.0	19.2	243.3	45.4	164.3	14.9

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1981-2010**

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

Station: **SWAN LAKE, NE US**

GHCND:USC00258360

Elev: 2329 ft. Lat: 42.184° N Lon: 99.090° 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	0.46	@	@	@	@			
2	0.58	@	@	@	@			
3	1.59	@	@	@	@			
4	2.58	@	@	@	@			
5	4.02	@	@	@	@			
6	3.98	@	@	@	@			
7	3.06	@	@	@	@			
8	2.93	@	@	@	@			
9	2.31	@	@	@	@			
10	1.85	@	@	@	@			
11	1.09	@	@	@	@			
12	0.47	@	@	@	@			
Summary	24.92	9999	9999	9999	9999	9999	9999	9999

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Station: **SWAN LAKE, NE US**

GHCND:USC00258360

Elev: 2329 ft. Lat: 42.184° N Lon: 99.090° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	18	81	245	541	802	999	961	653	307	74	5
45	1	4	38	145	393	652	844	806	506	194	31	-7777
50	0	1	15	71	256	503	690	651	364	104	9	-7777
55	0	-7777	4	27	143	357	535	496	235	45	2	0
60	0	-7777	1	7	63	223	382	345	132	16	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	25	74	168	325	509	654	624	418	220	64	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	27	108	353	894	1696	2695	3656	4309	4616	4690	4695
45	1	5	43	188	581	1233	2077	2883	3389	3583	3614	-7777
50	0	1	16	87	343	846	1536	2187	2551	2655	2664	-7777
55	0	-7777	4	31	174	531	1066	1562	1797	1842	1844	1844
60	0	-7777	1	8	71	294	676	1021	1153	1169	-7777	1169
Growing Degree Units for Corn (Monthly)												
50/86	18	43	117	285	610	1119	1773	2397	2815	3035	3099	3110

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: **STRATTON, NE US**

GHCND:USC00258255

Elev: 2828 ft. Lat: 40.152° N Lon: 101.229° 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	0.37	2.4	1.0	0.2	0.0	0.09	0.25	0.50
2	0.41	2.9	1.2	-7777	0.0	0.12	0.32	0.65
3	1.08	4.5	2.7	0.5	0.1	0.33	0.88	1.29
4	2.02	6.3	4.0	1.0	0.3	1.00	1.73	2.94
5	3.23	10.2	5.9	1.5	0.4	1.64	2.90	4.40
6	3.09	8.7	6.3	1.9	0.9	1.30	3.18	4.62
7	2.78	7.5	5.6	1.9	0.6	1.56	2.60	3.66
8	2.58	7.5	5.2	2.1	1.0	1.26	2.02	3.71
9	1.44	5.0	3.2	1.0	0.3	0.66	1.13	1.96
10	1.46	5.1	3.2	0.8	0.3	0.41	1.24	2.02
11	0.74	3.4	1.8	0.4	0.0	0.25	0.54	0.94
12	0.45	2.3	0.9	0.2	0.1	0.08	0.25	0.66
Summary	19.65	65.8	41.0	11.5	4.0	8.70	17.04	27.35

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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: **STRATTON, NE US**

GHCND:USC00258255
 Elev: 2828 ft. Lat: 40.152° N Lon: 101.229° 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	5.1	2.1	1.6	0.6	0.3	0.1	@	@	@	@	1.9	4.3	7.4
2	4.3	2.1	1.7	0.7	0.1	0.0	@	@	@	@	1.5	3.0	7.0
3	4.0	1.7	1.4	0.5	0.1	0.0	@	@	@	@	0.0	2.5	8.0
4	0.5	0.4	0.3	0.2	-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	0.8	0.3	0.3	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	2.7	1.1	1.0	0.5	0.1	0.0	@	@	@	@	0.0	2.0	4.0
12	2.4	1.5	1.4	0.3	0.0	0.0	@	@	@	@	0.0	1.9	3.0
Summary	19.8	9.2	7.7	2.9	0.7	0.1	9999	9999	9999	9999	3.4	13.7	29.4

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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: **EMERSON, NE US**

GHCND:USC00252715

Elev: 1444 ft. Lat: 42.282° N Lon: 96.726° 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	0.64	4.0	2.1	0.3	-7777	0.33	0.49	0.81
2	0.69	3.9	2.1	0.3	0.1	0.39	0.65	1.06
3	2.07	6.3	4.7	1.3	0.5	0.79	1.92	3.07
4	3.35	8.8	6.3	2.3	0.9	1.83	3.06	4.40
5	4.21	9.8	7.6	2.9	1.0	2.88	4.05	6.04
6	4.44	9.5	7.3	2.9	1.5	2.28	4.16	6.89
7	3.38	7.9	5.8	2.2	1.0	2.09	3.17	4.21
8	3.09	7.6	5.6	1.9	0.9	1.86	2.67	4.15
9	3.22	7.2	5.1	2.0	0.9	1.98	2.89	4.21
10	2.39	6.4	4.3	1.7	0.5	1.01	1.96	3.41
11	1.36	5.0	3.0	0.8	0.2	0.70	1.31	1.99
12	0.79	4.6	2.2	0.4	0.1	0.35	0.65	0.94
Summary	29.63	81.0	56.1	19.0	7.6	16.49	26.98	41.18

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

Station: **EMERSON, NE US**

GHCND:USC00252715
 Elev: 1444 ft. Lat: 42.282° N Lon: 96.726° 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	6.9	3.1	2.1	0.8	0.4	-7777	13.1	7.5	3.1	0.5	3.2	6.3	10.0
2	6.6	2.7	1.9	0.6	0.2	0.1	10.2	5.8	3.4	1.1	3.0	5.5	8.0
3	6.1	2.4	1.8	0.8	0.2	0.1	3.9	2.1	1.2	0.2	1.2	3.4	8.7
4	1.7	0.7	0.6	0.3	0.1	0.0	1.0	0.5	0.2	0.0	0.0	0.0	2.0
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	0.2	0.2	-7777	-7777	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
11	3.8	1.8	1.3	0.3	0.1	-7777	3.2	1.0	0.3	0.1	0.8	2.5	6.5
12	6.4	3.3	2.1	0.8	0.3	-7777	11.7	5.3	1.8	0.2	1.5	4.8	8.6
Summary	32.0	14.2	10.0	3.6	1.3	0.2	43.3	22.3	10.0	2.1	9.7	22.5	43.8

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1981-2010**

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

Station: VALENTINE NUMBER 1, NE US

GHCND:USC00258751
Elev: 2589 ft. Lat: 42.875° N Lon: 100.552° 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	36.8	11.0	23.9	5.5	5.9	5.4	0	0	0	0	0	0	964	1026	1119	1274	0.0	0.0	5.0	10.2	30.5	6.3
2	39.7	15.5	27.6	6.3	4.8	5.4	-7777	0	0	0	0	0	767	823	907	1047	0.0	0.0	6.6	8.0	26.6	2.7
3	49.4	24.6	37.0	6.1	4.2	4.8	7	4	1	-7777	0	0	565	624	714	868	0.0	0.0	15.2	4.2	24.0	0.8
4	60.5	34.6	47.6	4.6	2.8	3.1	37	24	11	2	-7777	-7777	260	307	384	525	0.0	0.0	23.5	0.5	11.8	0.0
5	71.5	45.8	58.7	3.3	2.1	2.5	175	138	92	39	12	7	62	87	134	235	0.0	1.3	30.2	0.0	1.5	0.0
6	82.3	55.1	68.7	3.6	2.9	2.9	415	358	277	160	72	48	4	7	16	49	0.8	7.0	30.0	0.0	0.0	0.0
7	89.2	61.3	75.2	3.5	2.1	2.7	627	565	473	323	184	134	0	-7777	-7777	5	2.0	14.0	31.0	0.0	0.0	0.0
8	86.8	59.0	72.9	3.4	3.0	3.0	555	493	402	259	136	96	-7777	1	3	14	1.4	11.7	31.0	0.0	0.0	0.0
9	77.3	49.2	63.3	4.1	3.0	3.1	275	228	165	86	37	23	28	41	67	139	0.0	3.8	29.9	0.0	0.5	0.0
10	62.8	33.8	48.3	4.1	3.6	3.1	42	29	14	3	1	-7777	250	298	377	521	0.0	0.3	26.0	0.4	11.8	0.0
11	47.2	22.9	35.0	6.9	3.7	5.1	1	1	-7777	-7777	0	0	600	659	749	899	0.0	0.0	13.3	4.6	25.5	0.6
12	36.2	12.5	24.4	5.8	5.5	5.5	-7777	-7777	0	0	0	0	950	1012	1105	1260	0.0	0.0	3.7	10.1	30.7	4.9
Summary	61.6	35.4	48.6	4.8	3.6	3.9	2134	1840	1435	872	442	308	4450	4885	5575	6836	4.2	38.1	245.4	38.0	162.9	15.3

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-4444: year-round risk of frost-freeze

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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: VALENTINE NUMBER 1, NE US

GHCND:USC00258751
Elev: 2589 ft. Lat: 42.875° N Lon: 100.552° 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	0.29	@	@	@	@			
2	0.49	@	@	@	@			
3	1.26	@	@	@	@			
4	2.26	@	@	@	@			
5	3.40	@	@	@	@			
6	3.45	@	@	@	@			
7	3.01	@	@	@	@			
8	2.32	@	@	@	@			
9	1.76	@	@	@	@			
10	1.45	@	@	@	@			
11	0.73	@	@	@	@			
12	0.54	@	@	@	@			
Summary	20.96	9999	9999	9999	9999	9999	9999	9999

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Federal Building
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Station: VALENTINE NUMBER 1, NE US

GHCND:USC00258751
Elev: 2589 ft. Lat: 42.875° N Lon: 100.552° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	20	94	267	578	861	1092	1019	698	294	68	5
45	1	5	46	164	429	711	937	865	550	180	28	1
50	-7777	1	20	85	291	562	782	710	407	96	8	1
55	0	-7777	7	37	175	415	627	555	275	42	1	-7777
60	0	0	1	11	92	277	473	402	165	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	14	28	86	182	353	546	709	657	440	218	70	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	25	119	386	964	1825	2917	3936	4634	4928	4996	5001
45	1	6	52	216	645	1356	2293	3158	3708	3888	3916	3917
50	-7777	1	21	106	397	959	1741	2451	2858	2954	2962	2963
55	0	-7777	7	44	219	634	1261	1816	2091	2133	2134	-7777
60	0	0	1	12	104	381	854	1256	1421	1435	-7777	1435
Growing Degree Units for Corn (Monthly)												
50/86	14	42	128	310	663	1209	1918	2575	3015	3233	3303	3313

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: HAYES CENTER, NE US

GHCND:USW00024020
 Elev: 3045 ft. Lat: 40.523° N Lon: 101.034° 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	14.5	26.9	5.9	4.1	4.8	-7777	-7777	0	0	0	0	871	933	1026	1181	0.0	0.0	7.6	9.4	30.5	3.3
2	43.2	17.3	30.2	6.3	4.7	5.2	-7777	-7777	0	0	0	0	693	749	833	973	0.0	0.0	9.6	6.2	26.7	2.5
3	52.5	24.4	38.5	4.2	3.3	3.5	6	3	1	-7777	0	0	519	578	669	823	0.0	0.0	17.8	2.8	25.6	0.5
4	62.3	33.3	47.8	4.5	2.7	3.2	41	28	15	3	-7777	-7777	257	304	381	519	0.0	0.2	24.5	0.2	13.7	0.0
5	71.9	44.5	58.2	3.8	2.5	2.9	165	127	80	28	6	2	65	90	136	239	0.1	1.0	30.2	0.0	1.4	0.0
6	82.2	54.4	68.3	3.9	2.8	3.1	404	347	265	146	62	40	5	8	16	47	0.6	6.1	29.9	0.0	0.0	0.0
7	88.7	60.1	74.4	3.2	2.1	2.4	601	540	447	297	162	118	-7777	-7777	1	6	2.1	14.2	31.0	0.0	0.0	0.0
8	86.7	58.5	72.6	3.5	2.4	2.8	546	485	393	248	123	85	1	1	3	12	1.2	11.5	31.0	0.0	0.0	0.0
9	78.0	48.2	63.1	3.7	2.7	3.0	273	226	162	78	27	15	30	43	69	135	0.1	4.0	29.6	0.0	0.8	0.0
10	65.1	36.0	50.5	3.9	2.4	2.9	61	42	21	5	1	-7777	199	242	314	453	0.0	0.2	27.0	0.4	9.4	0.0
11	50.6	24.5	37.6	5.5	3.5	4.3	4	2	-7777	-7777	0	0	528	586	674	823	0.0	0.0	15.7	3.2	23.3	0.3
12	39.6	15.3	27.5	6.0	4.9	5.3	-7777	0	0	0	0	0	854	916	1009	1164	0.0	0.0	7.3	8.5	30.4	2.9
Summary	63.3	35.9	49.6	4.5	3.2	3.6	2101	1800	1384	805	381	260	4022	4450	5131	6375	4.1	37.2	261.2	30.7	161.8	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: **HAYES CENTER, NE US**

GHCND:USW00024020
Elev: 3045 ft. Lat: 40.523° N Lon: 101.034° 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	0.46	3.3	1.1	0.2	-7777	0.17	0.32	0.61
2	0.52	4.0	1.5	0.2	-7777	0.13	0.53	0.80
3	1.43	5.9	3.4	0.8	0.2	0.56	1.28	1.97
4	2.14	7.2	4.7	1.3	0.3	1.16	1.95	2.86
5	3.28	10.5	6.5	1.9	0.5	1.93	3.20	4.55
6	3.28	9.3	6.0	2.2	0.7	2.65	3.28	3.87
7	3.13	8.6	5.7	2.4	0.7	2.18	2.92	3.75
8	2.83	6.7	4.8	2.0	0.7	1.12	2.06	3.41
9	1.65	5.6	3.4	1.2	0.4	0.78	1.38	2.32
10	1.77	6.3	3.7	1.1	0.4	0.71	1.70	2.62
11	0.84	3.8	2.1	0.5	0.1	0.39	0.69	1.27
12	0.53	3.1	1.4	0.2	0.1	0.13	0.36	0.80
Summary	21.86	74.3	44.3	14.0	4.1	11.91	19.67	28.83

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Station: **HAYES CENTER, NE US**

GHCND:USW00024020
Elev: 3045 ft. Lat: 40.523° N Lon: 101.034° 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	2.8	2.5	0.7	0.4	0.1	12.0	7.5	5.0	1.3	2.0	5.0	9.4
2	5.0	2.5	2.3	0.7	0.2	0.1	9.9	5.8	2.8	0.7	1.0	4.0	8.0
3	6.0	2.8	2.6	0.8	0.3	0.0	4.9	2.5	1.1	0.1	2.0	4.7	8.0
4	3.9	1.3	1.3	0.7	0.2	0.0	1.5	0.9	0.5	0.0	0.0	1.5	5.5
5	0.1	0.1	0.1	0.0	0.0	0.0	0.1	-7777	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	0.1	0.1	-7777	0.0	0.0	0.0	-7777	-7777	-7777	0.0	0.0	0.0	0.0
10	2.3	0.8	0.7	0.3	0.2	-7777	1.0	0.6	0.3	0.1	0.0	0.0	3.0
11	3.9	1.8	1.7	0.6	0.2	0.0	4.4	2.0	0.9	0.1	2.0	3.5	5.2
12	5.3	2.5	2.1	0.6	0.2	-7777	10.1	6.0	3.3	0.8	1.5	4.0	7.9
Summary	32.9	14.7	13.3	4.4	1.7	0.2	43.9	25.3	13.9	3.1	8.5	22.7	47.0

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1981-2010**

National Climatic Data Center
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151 Patton Avenue
Asheville, North Carolina 28801
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Station: **HAYES CENTER, NE US**

GHCND:USW00024020
Elev: 3045 ft. Lat: 40.523° N Lon: 101.034° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	32	111	271	565	849	1066	1010	694	353	99	16
45	4	11	52	166	416	699	911	855	547	232	49	4
50	-7777	2	19	89	278	550	756	700	405	132	18	-7777
55	-7777	-7777	6	41	165	404	601	546	273	61	4	-7777
60	0	0	1	15	80	265	447	393	162	21	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	26	44	113	205	349	532	682	647	434	249	91	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	47	158	429	994	1843	2909	3919	4613	4966	5065	5081
45	4	15	67	233	649	1348	2259	3114	3661	3893	3942	3946
50	-7777	2	21	110	388	938	1694	2394	2799	2931	2949	-7777
55	-7777	-7777	6	47	212	616	1217	1763	2036	2097	2101	-7777
60	0	0	1	16	96	361	808	1201	1363	1384	-7777	1384
Growing Degree Units for Corn (Monthly)												
50/86	26	70	183	388	737	1269	1951	2598	3032	3281	3372	3397

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: **ORCHARD 9 NNE, NE US**

GHCND:USC00256328

Elev: 1821 ft. Lat: 42.467° N Lon: 98.219° 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	0.35	@	@	@	@			
2	0.63	@	@	@	@			
3	1.87	@	@	@	@			
4	2.95	@	@	@	@			
5	3.80	@	@	@	@			
6	4.36	@	@	@	@			
7	3.26	@	@	@	@			
8	3.46	@	@	@	@			
9	2.53	@	@	@	@			
10	2.05	@	@	@	@			
11	1.13	@	@	@	@			
12	0.65	@	@	@	@			
Summary	27.04	9999	9999	9999	9999	9999	9999	9999

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

Station: **AUBURN 5 ESE, NE US**

GHCND:USC00250435
Elev: 932 ft. Lat: 40.370° N Lon: 95.747° 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	35.7	15.3	25.5	6.6	5.4	5.8	-7777	-7777	0	0	0	0	914	976	1069	1224	0.0	0.0	4.5	11.8	29.5	3.8
2	40.8	19.8	30.3	6.8	5.9	6.1	1	1	-7777	-7777	0	0	693	748	832	971	0.0	0.0	7.2	7.7	23.6	2.5
3	53.5	30.3	41.9	4.9	3.5	3.8	22	16	9	2	-7777	-7777	428	484	570	718	0.0	-7777	18.0	1.9	18.2	0.2
4	66.1	41.3	53.7	4.6	3.0	3.6	106	82	54	23	8	5	145	181	243	362	0.0	0.7	27.0	-7777	5.7	0.0
5	75.8	52.6	64.2	3.5	3.2	3.1	303	252	184	92	35	21	18	29	54	117	0.1	2.0	30.9	0.0	0.4	0.0
6	84.7	62.3	73.5	3.0	2.6	2.6	555	495	407	266	143	103	-7777	-7777	2	11	0.3	6.7	30.0	0.0	0.0	0.0
7	88.5	66.6	77.6	3.0	2.4	2.5	699	637	544	390	242	188	0	0	-7777	1	1.5	12.5	31.0	0.0	0.0	0.0
8	87.1	64.2	75.6	4.0	3.0	3.3	640	578	486	335	198	151	-7777	-7777	-7777	5	1.4	10.9	31.0	0.0	0.0	0.0
9	80.1	54.5	67.3	3.8	2.9	3.1	380	327	253	149	74	53	12	18	34	80	0.1	4.8	29.9	0.0	0.4	0.0
10	67.5	42.5	55.0	3.7	2.8	2.7	123	94	60	25	8	5	123	156	215	335	0.0	0.6	28.7	0.0	5.2	0.0
11	51.6	30.0	40.8	5.8	3.9	4.5	15	10	5	1	-7777	-7777	441	496	581	727	0.0	0.0	16.7	2.0	17.7	0.1
12	37.8	18.1	28.0	6.5	6.3	6.2	-7777	-7777	-7777	0	0	0	839	901	993	1148	0.0	0.0	5.6	9.9	28.2	3.0
Summary	64.1	41.5	52.8	4.7	3.7	3.9	2844	2492	2002	1283	708	526	3613	3989	4593	5699	3.4	38.2	260.5	33.3	128.9	9.6

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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: **AUBURN 5 ESE, NE US**

GHCND:USC00250435

Elev: 932 ft. Lat: 40.370° N Lon: 95.747° 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	0.74	5.4	2.3	0.2	0.0	0.41	0.75	1.14
2	1.10	5.7	3.0	0.4	0.1	0.55	1.13	1.40
3	2.27	7.9	5.0	1.5	0.3	0.95	2.20	3.41
4	2.80	8.9	5.5	1.5	0.8	1.80	2.57	3.09
5	4.52	9.9	7.0	2.9	1.4	2.63	3.54	6.44
6	4.24	9.3	6.5	2.7	1.3	2.66	4.15	5.58
7	4.09	8.3	6.1	2.8	1.3	2.33	3.94	4.90
8	3.61	7.9	5.4	2.3	0.8	1.51	3.42	4.88
9	3.07	6.9	5.1	2.0	0.9	1.65	2.70	4.21
10	2.27	6.7	4.5	1.4	0.5	1.24	2.06	3.20
11	1.82	5.4	3.4	1.1	0.6	0.76	1.34	2.13
12	1.15	6.6	3.1	0.7	0.1	0.57	0.89	1.72
Summary	31.68	88.9	56.9	19.5	8.1	17.06	28.69	42.10

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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Station: **AUBURN 5 ESE, NE US**

GHCND:USC00250435
 Elev: 932 ft. Lat: 40.370° N Lon: 95.747° 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	4.1	2.2	0.6	0.3	0.0	13.5	8.0	5.1	1.3	2.3	7.3	9.1
2	7.1	4.1	2.4	0.9	0.2	0.0	11.7	6.7	3.4	0.7	2.4	5.2	11.4
3	4.9	2.9	1.6	0.6	0.1	-7777	3.9	1.4	0.5	0.2	1.5	4.0	6.5
4	1.3	0.9	0.4	0.1	0.1	0.0	0.4	0.2	0.1	-7777	0.0	0.0	0.5
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	0.6	0.3	0.1	0.1	-7777	-7777	0.2	-7777	-7777	0.0	0.0	0.0	0.0
11	2.3	1.6	0.9	0.3	0.1	0.0	2.1	0.7	0.2	0.0	0.2	1.3	3.5
12	7.8	4.7	2.4	0.9	0.2	-7777	10.8	6.9	3.4	0.9	2.1	5.6	10.0
Summary	30.7	18.6	10.0	3.5	1.0	0.0	42.6	23.9	12.7	3.1	8.5	23.4	41.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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

Station: **AUBURN 5 ESE, NE US**

GHCND:USC00250435
Elev: 932 ft. Lat: 40.370° N Lon: 95.747° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	37	169	422	750	1005	1164	1105	819	473	142	17
45	3	14	95	293	595	855	1009	950	670	335	79	5
50	-7777	4	48	186	443	705	854	795	522	217	38	1
55	-7777	1	22	106	303	555	699	640	380	123	15	-7777
60	0	-7777	9	54	184	407	544	486	253	60	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	32	121	264	468	675	791	742	529	299	97	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	49	218	640	1390	2395	3559	4664	5483	5956	6098	6115
45	3	17	112	405	1000	1855	2864	3814	4484	4819	4898	4903
50	-7777	4	52	238	681	1386	2240	3035	3557	3774	3812	3813
55	-7777	1	23	129	432	987	1686	2326	2706	2829	2844	-7777
60	0	-7777	9	63	247	654	1198	1684	1937	1997	2002	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	47	168	432	900	1575	2366	3108	3637	3936	4033	4049

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: WEST POINT, NE US

GHCND:USC00259200
 Elev: 1309 ft. Lat: 41.845° N Lon: 96.714° 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	30.9	10.9	20.9	6.6	6.3	6.3	0	0	0	0	0	0	1057	1119	1212	1367	0.0	0.0	2.5	16.0	30.7	6.8
2	35.3	15.2	25.3	6.8	6.0	6.2	-7777	-7777	-7777	0	0	0	833	889	973	1113	0.0	0.0	4.4	11.1	26.4	4.0
3	47.2	25.7	36.4	5.3	3.4	4.0	7	4	2	-7777	-7777	-7777	582	641	732	885	0.0	0.0	13.0	4.1	22.9	0.6
4	60.9	37.1	49.0	4.8	3.2	3.7	60	44	28	11	3	1	240	284	358	491	0.0	0.3	23.5	0.2	9.1	0.0
5	71.7	49.1	60.4	3.7	3.2	3.2	212	170	115	49	15	8	45	65	103	192	0.0	0.9	30.6	0.0	0.3	0.0
6	81.4	59.6	70.5	3.3	2.5	2.7	467	409	324	194	93	64	2	4	9	29	0.1	4.2	30.0	0.0	0.0	0.0
7	85.4	64.4	74.9	3.1	2.4	2.6	617	555	462	311	175	129	-7777	-7777	-7777	5	0.4	8.3	31.0	0.0	0.0	0.0
8	83.3	61.9	72.6	3.4	2.7	2.9	546	484	393	249	127	89	-7777	1	2	13	0.2	5.3	31.0	0.0	0.0	0.0
9	75.6	51.2	63.4	3.5	2.6	2.8	280	232	169	85	34	21	28	41	67	133	0.0	1.5	29.7	0.0	0.6	0.0
10	63.2	38.4	50.8	3.7	2.9	2.8	64	46	26	8	2	1	194	238	312	448	0.0	0.2	27.1	0.2	7.9	0.0
11	46.7	26.1	36.4	6.4	4.0	5.0	6	3	1	-7777	0	0	564	621	709	858	0.0	0.0	12.3	4.1	22.5	0.4
12	32.8	14.1	23.5	6.8	6.3	6.4	-7777	0	0	0	0	0	978	1040	1133	1288	0.0	0.0	3.1	13.9	30.1	4.2
Summary	59.5	37.8	48.7	4.8	3.8	4.1	2259	1947	1520	907	449	313	4523	4943	5610	6822	0.7	20.7	238.2	49.6	150.5	16.0

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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 POINT, NE US**

GHCND:USC00259200

Elev: 1309 ft. Lat: 41.845° N Lon: 96.714° 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	0.62	5.4	2.0	0.2	0.0	0.32	0.58	0.88
2	0.84	5.4	2.2	0.4	0.1	0.47	0.73	1.21
3	2.16	7.7	4.6	1.4	0.4	0.93	1.96	3.12
4	3.28	9.8	5.8	2.1	0.9	1.85	3.10	4.54
5	4.12	11.6	7.6	2.9	1.1	2.63	3.76	5.27
6	4.82	11.0	6.8	2.7	1.5	1.91	4.46	6.43
7	3.63	9.8	6.1	2.5	1.0	2.19	3.09	4.25
8	3.72	8.9	5.8	2.1	1.0	2.02	3.43	4.38
9	2.97	8.5	5.1	1.7	1.0	0.80	3.04	4.44
10	2.13	7.3	4.3	1.5	0.4	0.94	1.44	3.52
11	1.56	5.9	3.2	1.0	0.4	0.62	1.31	2.37
12	0.96	6.1	2.6	0.4	0.1	0.50	0.73	1.19
Summary	30.81	97.4	56.1	18.9	7.9	15.18	27.63	41.60

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Station: **WEST POINT, NE US**

GHCND:USC00259200
 Elev: 1309 ft. Lat: 41.845° N Lon: 96.714° 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	5.5	4.2	2.0	0.5	0.3	0.0	16.5	10.8	6.0	1.3	2.4	4.9	7.8
2	6.6	3.7	2.1	0.9	0.3	-7777	13.2	8.1	4.9	1.5	3.6	6.6	7.8
3	5.5	2.4	1.6	0.7	0.4	-7777	6.2	3.3	1.8	0.2	0.5	4.6	9.2
4	2.0	0.6	0.4	0.2	0.2	-7777	0.9	0.5	0.2	-7777	0.0	0.0	2.0
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	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.5	0.2	0.2	-7777	0.0	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
11	3.7	2.1	1.3	0.3	0.1	-7777	3.4	0.9	0.5	0.2	0.6	1.9	4.7
12	7.5	4.7	2.5	0.8	0.3	0.0	13.2	7.7	4.8	1.5	3.8	7.6	10.8
Summary	31.3	17.9	10.1	3.4	1.6	0.0	53.6	31.3	18.2	4.7	10.9	25.6	42.3

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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Station: **WEST POINT, NE US**

GHCND:USC00259200
Elev: 1309 ft. Lat: 41.845° N Lon: 96.714° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	14	90	303	633	915	1082	1011	703	354	85	5
45	1	4	45	195	480	765	927	855	555	232	44	1
50	-7777	1	19	114	336	615	772	700	412	133	18	-7777
55	0	-7777	7	60	212	467	617	546	280	64	6	-7777
60	0	-7777	2	28	115	324	462	393	169	26	1	0
Growing Degree Units for Corn (Monthly)												
50/86	7	15	70	192	377	600	734	676	442	225	61	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	108	411	1044	1959	3041	4052	4755	5109	5194	5199
45	1	5	50	245	725	1490	2417	3272	3827	4059	4103	4104
50	-7777	1	20	134	470	1085	1857	2557	2969	3102	3120	-7777
55	0	-7777	7	67	279	746	1363	1909	2189	2253	2259	-7777
60	0	-7777	2	30	145	469	931	1324	1493	1519	1520	1520
Growing Degree Units for Corn (Monthly)												
50/86	7	22	92	284	661	1261	1995	2671	3113	3338	3399	3406

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: LOUP CITY, NE US

GHCND:USC00254985
 Elev: 2057 ft. Lat: 41.281° N Lon: 98.968° 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	12.1	24.4	6.5	5.6	5.8	0	0	0	0	0	0	950	1012	1105	1260	0.0	0.0	5.8	11.9	30.7	5.7
2	40.3	16.0	28.2	6.8	5.7	6.0	-7777	-7777	-7777	0	0	0	752	808	892	1032	0.0	0.0	7.5	8.4	26.9	3.3
3	50.7	24.8	37.8	4.7	3.5	3.7	7	4	1	-7777	-7777	0	542	601	691	845	0.0	0.1	16.1	3.2	23.9	0.5
4	62.3	34.7	48.5	4.5	2.9	3.3	52	38	23	8	2	1	247	293	368	503	0.0	0.5	24.2	0.3	11.7	0.0
5	71.8	46.6	59.2	3.4	2.8	2.8	185	145	94	38	10	4	55	76	119	217	0.0	0.9	30.6	0.0	1.0	0.0
6	81.8	57.1	69.4	3.7	3.6	3.3	437	379	296	172	79	53	3	6	12	39	0.2	4.9	30.0	0.0	0.0	0.0
7	86.8	62.5	74.7	2.7	2.4	2.3	609	547	455	304	168	122	-7777	-7777	1	5	0.8	10.7	31.0	0.0	0.0	0.0
8	85.0	60.3	72.7	3.3	2.8	2.8	547	486	395	250	126	88	-7777	1	3	13	0.3	8.3	31.0	0.0	0.0	0.0
9	76.9	49.2	63.0	3.5	3.0	2.8	270	223	160	80	29	17	28	41	69	138	-7777	2.6	29.7	0.0	0.9	0.0
10	64.4	36.4	50.4	3.8	2.6	2.6	57	39	21	5	1	-7777	199	243	319	458	0.0	0.3	27.3	0.3	9.3	0.0
11	49.3	24.1	36.7	6.0	3.5	4.4	3	2	1	-7777	0	0	552	610	700	849	0.0	0.0	14.7	3.4	24.6	0.3
12	37.3	14.2	25.8	6.6	5.4	5.9	0	0	0	0	0	0	907	969	1062	1217	0.0	0.0	5.9	10.5	30.6	3.7
Summary	61.9	36.5	49.2	4.6	3.7	3.8	2167	1863	1446	857	415	285	4235	4660	5341	6576	1.3	28.3	253.8	38.0	159.6	13.5

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

Station: **LOUP CITY, NE US**

GHCND:USC00254985

Elev: 2057 ft. Lat: 41.281° N Lon: 98.968° 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	3.1	1.4	0.4	0.0	0.08	0.38	0.84
2	0.68	4.1	1.9	0.3	-7777	0.23	0.61	0.97
3	1.97	6.7	3.8	1.1	0.4	0.61	1.69	2.85
4	2.81	8.1	5.5	1.9	0.8	1.71	2.51	3.83
5	4.28	10.5	7.8	3.0	1.0	2.72	4.12	4.94
6	4.18	10.2	7.3	2.6	1.1	2.33	3.12	6.83
7	3.25	7.7	5.4	2.2	1.1	1.63	2.82	4.65
8	3.02	7.5	4.9	2.2	0.9	1.80	2.43	3.95
9	2.42	5.9	3.8	1.5	0.6	0.95	1.99	3.89
10	1.84	5.9	4.1	1.0	0.3	0.89	1.27	2.63
11	1.39	4.3	2.9	0.9	0.3	0.33	1.12	2.02
12	0.69	3.6	1.6	0.4	0.1	0.13	0.36	1.01
Summary	27.09	77.6	50.4	17.5	6.6	13.41	22.42	38.41

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: LOUP CITY, NE US

GHCND:USC00254985
 Elev: 2057 ft. Lat: 41.281° N Lon: 98.968° 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	3.3	2.6	1.0	0.4	-7777	10.6	5.1	2.2	0.1	3.0	5.5	11.0
2	6.1	3.2	2.8	0.6	0.2	0.0	8.0	4.4	2.3	0.7	2.8	5.1	9.2
3	5.9	2.3	2.0	0.8	0.4	0.1	3.4	1.8	1.3	0.3	1.5	4.0	8.5
4	1.8	0.7	0.6	0.3	0.1	0.0	0.6	0.2	0.2	0.0	0.0	0.0	2.0
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	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.2	0.5	0.5	0.2	0.1	0.0	0.5	0.3	0.1	0.0	0.0	0.0	1.0
11	4.2	1.7	1.5	0.6	0.3	0.0	1.6	0.6	0.2	0.0	1.0	2.0	6.0
12	7.0	2.8	2.3	0.7	0.5	-7777	9.1	4.2	2.7	0.2	3.0	5.6	10.5
Summary	33.4	14.5	12.3	4.2	2.0	0.1	33.8	16.6	9.0	1.3	11.3	22.2	48.2

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Station: LOUP CITY, NE US

GHCND:USC00254985
Elev: 2057 ft. Lat: 41.281° N Lon: 98.968° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	24	106	289	596	883	1074	1012	692	345	85	9
45	2	8	52	182	445	733	919	857	545	224	40	2
50	-7777	1	21	104	304	584	764	702	402	125	14	-7777
55	0	-7777	7	52	185	437	609	547	270	57	3	0
60	0	-7777	1	23	94	296	455	395	160	21	1	0
Growing Degree Units for Corn (Monthly)												
50/86	23	34	101	205	363	571	716	668	440	238	81	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	35	141	430	1026	1909	2983	3995	4687	5032	5117	5126
45	2	10	62	244	689	1422	2341	3198	3743	3967	4007	4009
50	-7777	1	22	126	430	1014	1778	2480	2882	3007	3021	-7777
55	0	-7777	7	59	244	681	1290	1837	2107	2164	2167	2167
60	0	-7777	1	24	118	414	869	1264	1424	1445	1446	1446
Growing Degree Units for Corn (Monthly)												
50/86	23	57	158	363	726	1297	2013	2681	3121	3359	3440	3460

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: **NORTH PLATTE REGIONAL AIRPORT, NE US**

GHCND:USW00024023
Elev: 2779 ft. Lat: 41.121° N Lon: 100.669° 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	38.9	11.1	25.0	6.1	4.5	5.1	0	0	0	0	0	0	930	992	1085	1240	0.0	0.0	6.9	9.3	30.9	5.0
2	43.0	15.0	29.0	6.8	4.8	5.4	-7777	-7777	-7777	0	0	0	728	784	868	1008	0.0	0.0	9.5	6.2	27.3	2.9
3	52.5	23.5	38.0	4.5	3.4	3.5	3	1	-7777	-7777	0	0	530	590	682	837	0.0	0.0	18.0	2.6	26.0	0.5
4	62.2	33.0	47.6	4.4	2.6	3.1	35	24	12	3	-7777	-7777	257	306	384	525	-7777	0.2	24.5	0.3	13.8	0.0
5	71.7	44.1	57.9	3.5	2.4	2.7	154	118	73	25	5	3	64	90	138	245	-7777	0.8	30.6	0.0	2.4	0.0
6	81.8	54.0	67.9	3.7	3.0	3.0	392	335	254	138	59	38	5	8	17	51	0.3	5.4	29.9	0.0	-7777	0.0
7	88.2	60.4	74.3	3.1	2.3	2.5	598	536	444	293	158	114	0	-7777	1	5	1.6	13.0	31.0	0.0	0.0	0.0
8	86.1	58.2	72.1	3.5	2.4	2.8	532	471	380	236	116	79	-7777	1	3	15	1.0	10.1	31.0	0.0	0.0	0.0
9	77.8	46.8	62.3	3.7	2.9	2.9	251	206	146	70	26	15	32	47	77	151	0.1	4.0	29.6	0.0	1.4	0.0
10	64.5	33.6	49.1	4.0	2.5	2.6	42	27	13	3	1	-7777	226	274	353	498	0.0	0.3	26.9	0.4	13.3	0.0
11	50.2	21.0	35.6	5.8	3.1	4.1	2	1	-7777	-7777	0	0	583	643	732	882	0.0	0.0	15.3	3.2	27.2	0.9
12	39.1	11.6	25.4	6.5	4.5	5.3	0	0	0	0	0	0	919	981	1074	1229	0.0	0.0	7.0	9.1	30.9	3.8
Summary	63.0	34.4	48.7	4.6	3.2	3.6	2009	1719	1322	768	365	249	4274	4716	5414	6686	3.0	33.8	260.2	31.1	173.2	13.1

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

Station: **NORTH PLATTE REGIONAL AIRPORT, NE US**

GHCND:USW00024023
Elev: 2779 ft. Lat: 41.121° N Lon: 100.669° 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	0.34	4.1	1.1	0.1	0.0	0.16	0.33	0.50
2	0.50	5.1	1.6	0.1	0.0	0.14	0.35	0.81
3	1.05	6.7	2.7	0.6	-7777	0.44	0.95	1.54
4	2.27	8.4	4.6	1.4	0.4	1.40	1.96	3.00
5	3.28	11.6	6.8	2.2	0.7	2.02	2.98	4.01
6	3.42	10.5	6.6	2.6	0.6	2.35	3.09	4.92
7	3.07	10.3	6.0	2.3	0.8	1.90	2.84	3.98
8	2.29	8.8	4.2	1.7	0.5	1.23	1.97	2.78
9	1.41	7.0	3.3	0.8	0.2	0.71	1.19	1.76
10	1.55	6.6	3.4	0.9	0.3	0.78	1.21	2.38
11	0.64	4.7	1.7	0.3	0.0	0.14	0.58	0.96
12	0.41	3.6	1.2	0.1	-7777	0.05	0.26	0.67
Summary	20.23	87.4	43.2	13.1	3.5	11.32	17.71	27.31

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Station: **NORTH PLATTE REGIONAL AIRPORT, NE US**

GHCND:USW00024023
Elev: 2779 ft. Lat: 41.121° N Lon: 100.669° 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	4.2	1.4	0.5	0.1	0.0	10.4	4.9	1.9	0.2	1.6	4.9	6.1
2	5.3	4.1	1.8	0.5	0.1	0.0	7.0	3.0	1.6	0.2	1.7	4.2	8.9
3	4.4	3.9	1.4	0.4	0.1	0.0	3.4	1.5	0.4	0.0	2.1	4.0	6.4
4	3.2	2.0	0.9	0.4	0.2	0.0	1.2	0.4	0.1	0.0	0.1	1.1	5.4
5	-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
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	0.2	0.2	0.1	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	2.1	0.7	0.6	0.3	0.1	-7777	0.7	0.4	0.1	0.1	0.0	0.0	1.3
11	3.9	2.5	1.2	0.4	0.2	0.0	3.5	1.3	0.6	0.1	1.0	2.0	5.3
12	4.6	3.5	1.3	0.5	0.2	0.0	8.1	3.7	1.9	-7777	1.0	3.3	7.6
Summary	28.5	21.2	8.7	3.0	1.0	0.0	34.3	15.2	6.6	0.6	7.5	19.5	41.0

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Station: **NORTH PLATTE REGIONAL AIRPORT, NE US**

GHCND:USW00024023
Elev: 2779 ft. Lat: 41.121° N Lon: 100.669° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	19	96	261	555	837	1063	996	670	307	66	4
45	1	5	42	156	404	687	908	841	523	191	27	1
50	-7777	1	14	80	267	538	753	686	381	100	8	-7777
55	0	-7777	3	35	154	392	598	532	251	42	2	0
60	0	-7777	-7777	12	73	254	444	380	146	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	42	111	202	349	531	689	644	432	240	87	23

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	25	121	382	937	1774	2837	3833	4503	4810	4876	4880
45	1	6	48	204	608	1295	2203	3044	3567	3758	3785	3786
50	-7777	1	15	95	362	900	1653	2339	2720	2820	2828	-7777
55	0	-7777	3	38	192	584	1182	1714	1965	2007	2009	2009
60	0	-7777	-7777	12	85	339	783	1163	1309	1322	-7777	1322
Growing Degree Units for Corn (Monthly)												
50/86	25	67	178	380	729	1260	1949	2593	3025	3265	3352	3375

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: VALENTINE NWR, NE US

GHCND:USC00258755
 Elev: 2930 ft. Lat: 42.571° N Lon: 100.693° 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	38.7	16.0	27.3	6.4	5.4	5.7	-7777	-7777	0	0	0	0	857	919	1012	1167	0.0	0.0	6.7	9.0	28.1	4.0
2	41.9	18.5	30.2	6.4	5.4	5.8	-7777	-7777	0	0	0	0	695	750	834	974	0.0	0.0	8.7	6.8	25.0	2.7
3	51.0	26.2	38.6	5.7	4.0	4.6	7	4	1	-7777	0	0	516	574	665	819	0.0	0.0	17.3	3.4	21.9	0.7
4	61.3	35.8	48.6	4.8	2.6	3.5	52	38	22	7	1	1	246	291	366	501	-7777	0.3	24.2	0.5	10.2	0.0
5	71.8	46.9	59.3	3.5	2.2	2.6	191	150	99	41	12	6	56	77	119	216	0.0	1.0	30.4	0.0	0.9	0.0
6	81.2	56.0	68.6	3.6	2.9	3.1	413	356	274	154	68	45	5	8	16	46	0.4	4.5	30.0	0.0	0.0	0.0
7	87.7	61.7	74.7	3.4	2.3	2.7	610	549	457	308	175	130	-7777	-7777	1	7	1.6	13.0	31.0	0.0	0.0	0.0
8	86.6	60.4	73.5	3.4	2.4	2.8	574	512	421	274	145	104	1	1	2	10	0.7	10.2	31.0	0.0	0.0	0.0
9	77.6	50.1	63.9	3.3	2.3	2.5	293	244	179	92	35	21	27	39	64	127	0.1	3.4	29.5	0.0	0.7	0.0
10	64.4	38.4	51.4	4.0	2.4	2.9	74	52	29	9	2	1	186	226	296	430	0.0	0.3	26.8	0.2	6.9	0.0
11	49.2	26.2	37.7	7.0	4.6	5.7	9	6	2	-7777	-7777	0	528	585	671	819	0.0	0.0	14.3	4.1	20.6	0.7
12	38.4	16.8	27.6	6.9	5.7	6.1	-7777	-7777	0	0	0	0	849	911	1004	1159	0.0	0.0	6.2	9.2	28.1	3.7
Summary	62.5	37.8	50.1	4.9	3.5	4.0	2223	1911	1484	885	438	308	3966	4381	5050	6275	2.8	32.7	256.1	33.2	142.4	11.8

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Station: VALENTINE NWR, NE US

GHCND:USC00258755

Elev: 2930 ft. Lat: 42.571° N Lon: 100.693° 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	0.38	3.5	1.1	0.1	-7777	0.15	0.30	0.52
2	0.52	4.9	1.9	0.2	-7777	0.20	0.46	0.73
3	1.19	6.8	3.0	0.6	-7777	0.67	1.01	1.49
4	2.57	9.1	5.3	1.7	0.5	1.40	2.66	3.17
5	3.58	10.8	6.8	2.4	0.8	2.15	3.15	5.04
6	3.52	10.3	6.5	2.4	1.2	2.17	3.68	4.59
7	3.58	9.1	6.2	2.6	1.2	1.69	3.02	4.89
8	2.77	7.4	4.4	1.9	0.7	1.96	2.76	3.36
9	1.96	7.0	4.2	1.3	0.3	1.03	1.81	2.55
10	1.49	6.1	3.2	0.6	0.3	0.69	0.98	2.30
11	1.05	4.3	2.2	0.5	0.2	0.26	0.88	1.52
12	0.45	3.9	1.6	0.1	-7777	0.20	0.29	0.64
Summary	23.06	83.2	46.4	14.4	5.2	12.57	21.00	30.80

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: VALENTINE NWR, NE US

GHCND:USC00258755

Elev: 2930 ft. Lat: 42.571° N Lon: 100.693° 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	2.9	1.8	0.6	0.2	-7777	@	@	@	@	0.6	2.6	8.1
2	6.5	3.6	2.3	0.8	0.1	-7777	@	@	@	@	4.0	5.9	7.8
3	7.7	3.3	2.3	0.9	0.4	-7777	@	@	@	@	5.0	7.3	8.5
4	6.9	1.8	1.2	0.7	0.5	0.1	@	@	@	@	0.0	4.0	12.4
5	-7777	-7777	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	0.9	0.2	0.2	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
10	1.3	0.6	0.4	0.2	-7777	-7777	@	@	@	@	0.0	0.0	2.0
11	6.9	1.8	1.5	0.8	0.5	0.1	@	@	@	@	1.2	5.8	10.0
12	7.5	3.2	2.2	0.7	0.2	-7777	@	@	@	@	3.5	5.3	8.5
Summary	42.5	17.4	11.9	4.8	1.9	0.2	9999	9999	9999	9999	14.3	30.9	57.3

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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: VALENTINE NWR, NE US

GHCND:USC00258755

Elev: 2930 ft. Lat: 42.571° N Lon: 100.693° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	23	36	123	296	600	858	1075	1038	716	378	116	23
45	5	12	61	187	450	708	920	883	570	253	63	7
50	1	3	24	106	310	559	765	728	427	150	29	2
55	-7777	-7777	7	52	191	413	610	574	293	74	9	-7777
60	0	0	1	22	99	274	457	421	179	29	2	0
Growing Degree Units for Corn (Monthly)												
50/86	21	34	102	196	364	548	702	680	449	243	85	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	23	59	182	478	1078	1936	3011	4049	4765	5143	5259	5282
45	5	17	78	265	715	1423	2343	3226	3796	4049	4112	4119
50	1	4	28	134	444	1003	1768	2496	2923	3073	3102	3104
55	-7777	-7777	7	59	250	663	1273	1847	2140	2214	2223	-7777
60	0	0	1	23	122	396	853	1274	1453	1482	1484	1484
Growing Degree Units for Corn (Monthly)												
50/86	21	55	157	353	717	1265	1967	2647	3096	3339	3424	3445

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: SEWARD, NE US

GHCND:USC00257715
 Elev: 1444 ft. Lat: 40.900° N Lon: 97.091° 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	34.4	12.0	23.2	6.7	5.3	5.8	-7777	0	0	0	0	0	986	1048	1141	1296	0.0	0.0	4.1	13.0	30.7	5.1
2	39.1	16.4	27.8	7.0	5.5	6.0	-7777	-7777	-7777	0	0	0	763	819	903	1043	0.0	0.0	6.8	9.0	26.0	3.3
3	50.2	26.3	38.2	5.1	3.6	4.0	10	6	2	-7777	-7777	-7777	529	587	676	829	0.0	0.0	15.9	2.9	22.5	0.6
4	62.7	38.3	50.5	4.5	3.1	3.6	69	51	31	11	3	1	204	246	316	446	0.0	0.3	25.3	0.1	7.8	0.0
5	73.0	50.4	61.7	3.5	3.0	3.0	240	194	134	58	18	10	33	49	81	160	0.0	0.8	30.8	0.0	0.3	0.0
6	82.8	60.5	71.6	3.1	2.4	2.6	500	441	354	219	109	75	1	2	5	19	0.2	5.0	30.0	0.0	0.0	0.0
7	87.2	65.3	76.2	2.8	2.3	2.4	659	597	504	351	207	156	-7777	-7777	-7777	2	0.7	10.6	31.0	0.0	0.0	0.0
8	85.3	62.7	74.0	3.9	2.8	3.3	589	527	435	286	156	113	-7777	-7777	1	7	0.4	8.2	31.0	0.0	0.0	0.0
9	77.8	52.9	65.4	3.7	2.2	2.7	328	277	206	110	46	29	18	27	46	99	0.1	2.6	29.9	0.0	0.3	0.0
10	65.3	39.4	52.4	4.1	2.3	2.6	82	59	34	11	3	2	164	203	271	404	0.0	0.2	28.2	0.2	7.5	0.0
11	49.3	26.4	37.9	6.4	4.1	4.9	6	3	1	-7777	0	0	520	577	666	815	0.0	0.0	14.6	3.1	21.4	0.2
12	35.6	14.6	25.1	6.5	5.6	5.9	-7777	-7777	0	0	0	0	927	989	1082	1237	0.0	0.0	3.9	11.5	30.0	3.5
Summary	61.9	38.8	50.3	4.8	3.5	3.9	2483	2155	1701	1046	542	386	4145	4547	5188	6357	1.4	27.7	251.5	39.8	146.5	12.7

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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: **SEWARD, NE US**

GHCND:USC00257715

Elev: 1444 ft. Lat: 40.900° N Lon: 97.091° 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	0.57	4.2	2.0	0.2	0.0	0.27	0.41	0.78
2	0.55	4.5	2.0	0.1	0.0	0.27	0.54	0.73
3	1.91	7.0	4.3	1.1	0.3	0.79	1.69	2.63
4	2.45	9.0	5.3	1.7	0.4	1.51	2.22	3.30
5	4.31	11.0	7.7	3.2	1.1	2.61	4.31	5.27
6	4.42	9.5	6.6	2.7	1.6	3.07	4.11	5.88
7	3.66	7.8	5.8	2.3	1.0	1.76	3.24	4.33
8	3.39	7.8	5.3	2.1	1.1	1.67	2.93	4.67
9	2.69	7.0	4.9	1.7	0.5	1.36	2.53	3.24
10	2.07	6.8	4.4	1.3	0.3	0.76	1.87	3.01
11	1.38	4.9	2.8	0.9	0.2	0.54	1.18	2.20
12	0.81	4.3	2.0	0.3	0.1	0.26	0.54	1.04
Summary	28.21	83.8	53.1	17.6	6.6	14.87	25.57	37.08

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Station: **SEWARD, NE US**

GHCND:USC00257715
Elev: 1444 ft. Lat: 40.900° N Lon: 97.091° 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	3.0	1.8	0.5	0.1	0.0	13.1	8.3	4.0	0.5	1.2	3.6	5.9
2	4.9	3.1	1.8	0.6	0.2	0.0	10.8	5.1	2.4	0.2	2.0	4.5	7.1
3	4.0	2.0	1.3	0.6	0.2	0.0	3.8	1.8	0.9	0.1	0.2	3.0	6.7
4	0.9	0.5	0.4	0.1	-7777	0.0	0.6	0.3	0.1	0.0	0.0	0.0	1.0
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	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.2	0.1	-7777	-7777	-7777	0.2	0.1	0.1	-7777	0.0	0.0	0.0
11	2.1	1.7	0.8	0.2	0.1	0.0	2.3	0.7	0.3	0.0	0.0	1.0	3.1
12	4.2	3.1	1.7	0.5	0.1	0.0	9.7	4.9	2.3	0.4	2.0	3.1	6.7
Summary	21.2	13.6	7.9	2.5	0.7	0.0	40.5	21.2	10.1	1.2	5.4	15.2	30.5

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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: SEWARD, NE US

GHCND:USC00257715
Elev: 1444 ft. Lat: 40.900° N Lon: 97.091° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	24	113	339	673	950	1124	1054	761	398	100	6
45	1	8	58	224	519	799	969	899	612	270	51	1
50	-7777	2	26	133	372	649	814	744	466	162	20	-7777
55	-7777	-7777	10	69	240	500	659	589	328	82	6	-7777
60	0	-7777	2	31	134	354	504	435	206	34	1	0
Growing Degree Units for Corn (Monthly)												
50/86	12	27	91	214	406	629	763	704	484	257	76	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	30	143	482	1155	2105	3229	4283	5044	5442	5542	5548
45	1	9	67	291	810	1609	2578	3477	4089	4359	4410	4411
50	-7777	2	28	161	533	1182	1996	2740	3206	3368	3388	-7777
55	-7777	-7777	10	79	319	819	1478	2067	2395	2477	2483	-7777
60	0	-7777	2	33	167	521	1025	1460	1666	1700	1701	1701
Growing Degree Units for Corn (Monthly)												
50/86	12	39	130	344	750	1379	2142	2846	3330	3587	3663	3673

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: **LOUP CITY 6 NNE, NE US**

GHCND:USC00254986

Elev: 2221 ft. Lat: 41.361° N Lon: 98.922° 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	0.57	3.0	1.8	0.5	0.0	0.23	0.44	0.78
2	0.70	3.7	2.1	0.3	-7777	0.32	0.68	0.95
3	1.81	5.5	3.8	0.9	0.4	0.52	1.74	2.88
4	2.78	6.6	4.9	1.8	0.8	1.41	2.28	3.96
5	3.71	9.3	7.2	2.5	1.0	2.24	3.57	5.32
6	4.37	8.7	6.8	2.9	1.1	2.07	3.97	5.69
7	3.08	7.4	6.0	2.4	0.8	1.76	2.59	4.28
8	3.15	7.0	5.1	2.1	1.0	1.80	2.69	4.57
9	2.53	5.5	4.1	1.7	0.8	1.13	1.89	3.83
10	1.93	4.9	3.5	1.3	0.4	0.74	1.35	2.54
11	1.33	4.2	3.2	1.0	0.4	0.38	1.10	2.00
12	0.60	3.2	1.8	0.4	0.0	0.14	0.45	0.87
Summary	26.56	69.0	50.3	17.8	6.7	12.74	22.75	37.67

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

Station: LOUP CITY 6 NNE, NE US

GHCND:USC00254986
 Elev: 2221 ft. Lat: 41.361° N Lon: 98.922° 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	4.5	2.2	1.7	0.8	0.3	0.1	8.8	7.4	5.6	2.3	0.6	3.5	6.8
2	6.0	2.3	1.9	0.8	0.4	0.1	8.6	5.2	2.9	0.6	0.6	5.0	9.1
3	5.8	2.0	1.7	0.7	0.5	-7777	4.0	2.6	2.1	0.6	0.4	4.1	9.0
4	1.6	0.8	0.5	0.3	0.1	0.0	1.2	0.8	0.4	0.0	0.0	0.0	2.0
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	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.3	0.3	0.1	-7777	0.0	0.5	0.2	0.1	-7777	0.0	0.0	0.0
11	5.3	1.8	1.4	0.6	0.2	0.1	3.4	1.1	0.3	0.1	0.3	4.5	7.0
12	4.4	1.8	1.0	0.7	0.3	0.0	7.2	5.9	4.2	2.0	0.3	1.8	8.7
Summary	28.6	11.2	8.5	4.0	1.8	0.3	33.7	23.2	15.6	5.6	2.2	18.9	42.6

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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: **HEMINGFORD, NE US**

GHCND:USC00253755
Elev: 4272 ft. Lat: 42.321° N Lon: 103.073° 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	16.2	27.1	5.0	4.2	4.5	0	0	0	0	0	0	865	927	1020	1175	0.0	0.0	5.4	9.4	29.2	3.4
2	40.5	18.4	29.5	5.4	5.2	5.2	-7777	0	0	0	0	0	715	771	855	995	0.0	0.0	7.4	6.8	25.6	2.7
3	48.3	25.0	36.7	4.5	3.5	3.8	3	1	-7777	-7777	0	0	571	632	724	879	0.0	0.0	15.1	4.1	24.0	0.7
4	57.2	33.1	45.2	4.5	2.5	3.3	27	18	8	2	-7777	-7777	322	373	454	597	0.0	0.1	21.0	1.0	13.4	0.0
5	67.2	43.2	55.2	3.9	2.4	3.0	117	87	51	15	2	1	111	143	200	319	0.0	0.3	28.3	0.0	2.0	0.0
6	78.1	52.5	65.3	4.0	2.8	3.2	323	271	198	99	36	22	14	22	39	90	0.2	3.5	29.7	0.0	0.0	0.0
7	86.5	59.1	72.8	3.1	2.1	2.5	552	491	400	254	129	90	-7777	1	3	13	1.0	11.1	31.0	0.0	0.0	0.0
8	84.9	57.4	71.2	2.6	2.2	2.3	502	442	352	211	95	60	2	3	7	21	0.2	9.1	31.0	0.0	0.0	0.0
9	74.7	47.7	61.2	3.7	2.5	3.0	236	192	135	60	17	9	50	67	99	174	0.0	2.4	28.9	0.1	1.0	0.0
10	61.1	35.9	48.5	4.0	2.4	3.0	47	31	15	3	-7777	-7777	249	295	372	514	0.0	0.0	24.1	0.7	8.9	-7777
11	47.4	25.0	36.2	6.2	4.1	5.0	4	2	1	-7777	0	0	568	626	715	864	0.0	0.0	12.8	4.7	22.1	0.7
12	37.8	16.0	26.9	5.2	4.9	4.9	-7777	0	0	0	0	0	871	933	1026	1181	0.0	0.0	5.7	9.5	29.5	3.1
Summary	60.1	35.8	48.0	4.3	3.2	3.6	1811	1535	1160	644	279	182	4338	4793	5514	6822	1.4	26.5	240.4	36.3	155.7	10.6

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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: **HEMINGFORD, NE US**

GHCND:USC00253755

Elev: 4272 ft. Lat: 42.321° N Lon: 103.073° 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	0.25	3.3	0.8	-7777	0.0	0.13	0.21	0.32
2	0.46	4.5	1.5	0.1	0.0	0.18	0.37	0.60
3	1.02	5.8	2.7	0.5	0.1	0.46	0.79	1.33
4	1.78	8.2	4.6	1.1	0.2	0.84	1.49	2.91
5	2.76	11.1	6.0	1.6	0.5	1.43	2.48	3.87
6	2.87	10.4	6.3	1.8	0.6	1.58	2.64	4.03
7	2.53	8.8	4.9	1.5	0.5	1.36	1.95	3.60
8	1.35	6.8	3.9	0.7	0.1	0.70	1.20	1.89
9	1.36	6.6	3.5	0.8	0.1	0.53	1.19	1.92
10	1.18	6.4	3.2	0.6	0.1	0.59	1.00	1.58
11	0.51	4.5	1.8	0.1	0.0	0.25	0.41	0.74
12	0.37	4.3	1.4	-7777	0.0	0.16	0.32	0.48
Summary	16.44	80.7	40.6	8.8	2.2	8.21	14.05	23.27

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Station: **HEMINGFORD, NE US**

GHCND:USC00253755
 Elev: 4272 ft. Lat: 42.321° N Lon: 103.073° 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	3.6	2.5	0.3	0.1	0.0	15.4	6.9	3.3	0.7	1.6	3.0	6.0
2	6.5	4.0	2.6	0.9	0.3	0.0	11.8	4.7	2.8	0.9	2.7	4.7	10.7
3	8.6	4.5	3.2	0.9	0.3	-7777	9.5	3.9	1.8	0.4	4.0	7.0	12.0
4	6.5	3.0	2.5	0.9	0.2	0.0	3.8	1.3	0.5	-7777	3.5	6.0	8.5
5	0.4	0.3	0.2	-7777	0.0	0.0	0.3	-7777	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	0.8	0.3	0.3	0.1	0.1	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
10	2.9	1.3	1.1	0.5	0.2	0.0	1.8	0.8	0.5	0.1	0.0	1.0	5.5
11	6.2	3.4	2.6	0.8	0.2	0.0	8.5	3.3	1.5	0.1	2.0	5.0	8.8
12	6.7	4.4	2.9	0.8	0.1	0.0	15.2	7.9	4.3	0.7	3.0	6.0	11.0
Summary	42.7	24.8	17.9	5.2	1.5	0.0	66.6	28.9	14.7	2.9	16.8	32.7	62.5

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Federal Building
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www.ncdc.noaa.gov

Station: **HEMINGFORD, NE US**

GHCND:USC00253755
Elev: 4272 ft. Lat: 42.321° N Lon: 103.073° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	26	89	218	476	759	1016	965	639	306	93	16
45	3	7	38	128	336	610	861	810	496	194	47	4
50	-7777	1	12	65	213	463	706	656	359	106	17	-7777
55	0	-7777	3	27	117	323	552	502	236	47	4	-7777
60	0	0	-7777	8	51	198	400	352	135	15	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	25	76	150	281	465	652	620	394	201	71	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	41	130	348	824	1583	2599	3564	4203	4509	4602	4618
45	3	10	48	176	512	1122	1983	2793	3289	3483	3530	3534
50	-7777	1	13	78	291	754	1460	2116	2475	2581	2598	-7777
55	0	-7777	3	30	147	470	1022	1524	1760	1807	1811	-7777
60	0	0	-7777	8	59	257	657	1009	1144	1159	1160	1160
Growing Degree Units for Corn (Monthly)												
50/86	15	40	116	266	547	1012	1664	2284	2678	2879	2950	2968

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: **TECUMSEH, NE US**

GHCND:USC00258465
 Elev: 1109 ft. Lat: 40.354° N Lon: 96.194° 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	35.6	12.9	24.2	6.3	5.0	5.5	0	0	0	0	0	0	953	1015	1108	1263	0.0	0.0	4.6	12.2	30.4	4.8
2	40.6	17.0	28.8	6.6	5.8	5.9	1	-7777	-7777	-7777	0	0	734	790	874	1013	0.0	0.0	7.8	7.9	25.7	3.0
3	52.1	27.8	39.9	4.8	3.6	3.8	16	10	5	1	-7777	-7777	482	539	626	777	0.0	0.0	16.8	2.5	21.0	0.2
4	64.1	38.5	51.3	4.6	3.0	3.6	80	60	37	14	4	2	191	231	298	425	0.0	0.4	25.6	-7777	7.9	0.0
5	73.7	50.0	61.9	3.6	3.2	3.1	246	200	139	61	19	10	33	49	82	159	0.0	1.1	30.8	0.0	0.6	0.0
6	83.5	60.1	71.8	3.2	2.6	2.7	505	446	359	223	112	78	1	2	5	20	0.2	5.8	30.0	0.0	0.0	0.0
7	88.3	64.9	76.6	3.0	2.2	2.3	669	607	515	362	218	167	0	-7777	-7777	3	1.5	12.6	31.0	0.0	0.0	0.0
8	86.8	62.5	74.6	3.8	3.0	3.2	609	547	455	307	176	132	-7777	-7777	1	7	1.5	11.2	31.0	0.0	0.0	0.0
9	79.0	52.0	65.5	3.9	2.6	3.0	334	284	214	119	54	36	20	29	49	104	0.2	4.1	29.9	0.0	0.6	0.0
10	66.8	39.4	53.1	3.4	2.8	2.6	95	70	42	14	4	2	154	191	256	383	0.0	0.3	28.5	-7777	7.6	0.0
11	51.4	27.6	39.5	6.0	3.8	4.6	12	7	3	1	-7777	0	477	532	618	766	0.0	0.0	16.7	2.2	21.1	0.2
12	37.9	15.9	26.9	6.4	6.0	6.0	-7777	-7777	-7777	0	0	0	871	933	1026	1181	0.0	0.0	6.0	10.2	29.5	3.4
Summary	63.3	39.1	51.2	4.6	3.6	3.9	2567	2231	1769	1102	587	427	3916	4311	4943	6101	3.4	35.5	258.7	35.0	144.4	11.6

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1981-2010**

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

Station: **TECUMSEH, NE US**

GHCND:USC00258465

Elev: 1109 ft. Lat: 40.354° N Lon: 96.194° 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	0.75	4.8	2.4	0.2	-7777	0.33	0.62	1.17
2	1.13	5.7	3.0	0.7	0.2	0.57	0.98	1.35
3	2.42	7.4	4.7	1.8	0.7	1.22	2.32	3.37
4	2.84	9.6	5.7	1.8	0.6	1.72	2.42	3.34
5	5.04	10.9	7.2	3.3	1.4	2.76	4.52	6.80
6	4.04	10.1	6.7	2.9	1.2	2.51	3.63	6.10
7	4.23	9.3	6.4	3.0	1.2	2.52	3.47	5.33
8	3.81	8.4	5.9	2.5	1.0	1.40	3.70	5.53
9	2.91	7.3	4.7	2.0	0.9	1.79	2.75	3.54
10	2.26	7.1	4.3	1.5	0.5	1.21	1.82	2.72
11	1.71	5.7	3.5	1.2	0.4	0.81	1.40	2.67
12	1.13	5.7	3.0	0.6	0.1	0.47	0.93	1.64
Summary	32.27	92.0	57.5	21.5	8.2	17.31	28.56	43.56

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Station: **TECUMSEH, NE US**

GHCND:USC00258465

Elev: 1109 ft. Lat: 40.354° N Lon: 96.194° 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	5.5	3.2	2.1	0.8	0.3	0.0	13.1	8.4	4.4	0.7	1.9	5.5	7.7
2	6.7	2.9	2.0	0.9	0.4	-7777	10.9	6.7	3.4	0.7	3.0	6.5	10.0
3	3.3	1.5	1.2	0.5	0.2	-7777	3.7	1.6	0.7	0.2	0.0	2.0	4.0
4	0.8	0.2	0.2	0.1	-7777	-7777	0.4	0.3	0.1	-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	0.4	0.2	0.2	0.1	0.0	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
11	1.8	1.0	0.7	0.2	-7777	0.0	1.6	0.5	0.1	0.0	0.0	0.5	3.0
12	5.6	2.9	2.0	0.9	0.3	-7777	9.6	6.4	3.0	0.9	0.5	4.0	6.0
Summary	24.1	11.9	8.4	3.5	1.2	0.0	39.5	24.0	11.7	2.5	5.4	18.5	30.7

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Station: **TECUMSEH, NE US**

GHCND:USC00258465

Elev: 1109 ft. Lat: 40.354° N Lon: 96.194° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	31	139	358	677	954	1135	1074	765	419	124	14
45	2	12	76	241	524	804	979	919	616	288	67	3
50	-7777	3	37	147	377	654	824	764	472	178	31	1
55	0	1	16	80	246	505	669	609	334	95	12	-7777
60	0	-7777	5	37	139	359	515	455	214	42	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	34	108	232	415	631	761	710	491	278	96	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	40	179	537	1214	2168	3303	4377	5142	5561	5685	5699
45	2	14	90	331	855	1659	2638	3557	4173	4461	4528	4531
50	-7777	3	40	187	564	1218	2042	2806	3278	3456	3487	3488
55	0	1	17	97	343	848	1517	2126	2460	2555	2567	-7777
60	0	-7777	5	42	181	540	1055	1510	1724	1766	1769	-7777
Growing Degree Units for Corn (Monthly)												
50/86	16	50	158	390	805	1436	2197	2907	3398	3676	3772	3790

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: **PIERCE, NE US**

GHCND:USC00256720

Elev: 1591 ft. Lat: 42.196° N Lon: 97.520° 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	0.49	4.3	1.6	0.1	0.0	0.30	0.51	0.62
2	0.67	4.5	2.4	0.3	0.0	0.27	0.65	0.92
3	2.03	6.8	3.8	1.1	0.1	0.97	1.72	2.85
4	2.90	8.6	5.9	1.9	0.8	1.64	2.59	4.09
5	4.12	9.6	7.1	2.7	1.0	3.02	3.95	5.27
6	4.17	10.1	7.6	2.9	1.1	2.46	3.97	5.24
7	2.84	7.7	5.8	2.3	1.0	1.46	2.13	3.58
8	4.20	8.6	6.1	2.4	1.4	2.75	4.31	5.22
9	2.97	6.2	4.5	2.0	1.0	1.25	2.93	4.33
10	2.30	6.6	3.9	1.8	0.8	0.91	1.66	3.54
11	1.33	4.5	2.8	0.8	0.2	0.57	0.99	2.19
12	0.88	4.6	2.4	0.2	0.2	0.32	0.72	1.16
Summary	28.90	82.1	53.9	18.5	7.6	15.92	26.13	39.01

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 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: **PIERCE, NE US**

GHCND:USC00256720
 Elev: 1591 ft. Lat: 42.196° N Lon: 97.520° 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	5.5	3.3	1.8	0.6	0.2	0.0	14.5	12.2	6.6	2.3	2.7	5.6	6.8
2	5.5	3.2	1.8	0.7	0.2	0.0	13.8	10.2	6.4	2.1	2.7	5.2	6.7
3	4.8	3.1	1.7	0.4	0.2	0.1	6.6	3.6	1.7	0.3	0.8	2.9	6.7
4	2.6	1.0	0.7	0.4	0.1	0.0	1.0	0.3	0.1	0.0	0.0	0.3	4.0
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	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
11	3.4	1.7	1.2	0.4	0.2	0.0	3.4	1.7	0.8	0.0	0.9	2.0	5.4
12	6.6	3.3	2.1	0.7	0.4	0.1	13.2	7.2	4.3	1.0	1.4	4.0	10.4
Summary	28.6	15.9	9.5	3.2	1.3	0.2	52.7	35.2	19.9	5.7	8.5	20.0	40.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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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: **OGALLALA, NE US**

GHCND:USC00256200

Elev: 3228 ft. Lat: 41.128° N Lon: 101.720° 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	14.7	27.2	5.7	4.2	4.7	-7777	0	0	0	0	0	860	922	1015	1170	0.0	0.0	7.4	8.4	30.5	3.0
2	43.9	18.1	31.0	6.7	5.3	5.6	-7777	-7777	-7777	0	0	0	672	728	812	952	0.0	0.0	10.0	6.0	26.8	2.1
3	52.7	24.9	38.8	3.9	3.1	3.1	4	2	-7777	-7777	0	0	506	566	658	812	0.0	0.0	18.3	2.6	24.9	0.4
4	62.6	33.5	48.0	4.3	2.6	3.2	39	27	14	3	1	-7777	247	295	372	512	0.0	0.3	24.4	0.4	13.1	0.0
5	72.4	44.5	58.5	3.8	2.3	2.8	170	133	86	33	8	4	63	88	134	236	0.1	1.7	30.4	0.0	1.6	0.0
6	83.0	54.9	69.0	3.9	2.8	3.0	423	366	285	164	74	48	5	8	16	45	0.7	7.1	29.9	0.0	0.0	0.0
7	90.1	61.3	75.7	3.1	2.1	2.4	642	580	487	336	195	147	-7777	-7777	1	4	2.9	16.2	31.0	0.0	0.0	0.0
8	88.0	59.6	73.8	3.4	2.3	2.7	583	522	430	282	151	107	-7777	1	2	10	1.6	13.5	31.0	0.0	0.0	0.0
9	78.6	48.1	63.3	3.7	3.1	3.0	279	231	167	82	30	17	29	41	67	131	0.1	4.9	29.5	-7777	0.8	0.0
10	65.4	35.4	50.4	3.8	2.4	2.7	53	36	17	3	-7777	-7777	196	240	315	456	0.0	0.4	27.2	0.3	9.2	0.0
11	51.0	24.2	37.6	5.2	2.6	3.6	3	1	-7777	0	0	0	525	583	672	822	0.0	0.0	15.7	2.9	25.0	0.3
12	40.2	14.9	27.5	6.0	4.5	5.0	-7777	0	0	0	0	0	851	913	1006	1161	0.0	0.0	7.4	7.8	30.7	2.5
Summary	64.0	36.2	50.1	4.5	3.1	3.5	2196	1898	1486	903	459	323	3954	4385	5070	6311	5.4	44.1	262.2	28.4	162.6	8.3

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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: **OGALLALA, NE US**

GHCND:USC00256200

Elev: 3228 ft. Lat: 41.128° N Lon: 101.720° 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	0.49	2.4	1.1	0.3	0.1	0.15	0.39	0.88
2	0.71	2.6	1.4	0.1	-7777	0.21	0.69	1.10
3	1.38	5.3	3.1	0.7	0.3	0.51	1.25	2.27
4	2.16	6.2	4.7	1.3	0.5	0.99	2.08	3.31
5	3.22	9.4	6.4	2.4	0.8	1.89	3.04	4.72
6	3.13	9.0	6.2	2.2	0.6	2.00	2.74	3.86
7	3.11	7.7	5.5	1.9	1.0	1.85	2.60	4.01
8	2.17	6.6	4.6	1.3	0.7	1.16	2.20	2.86
9	1.54	5.2	3.3	0.9	0.3	0.83	1.33	1.83
10	1.27	5.3	3.3	0.8	0.2	0.65	1.22	1.93
11	0.80	3.3	2.0	0.4	0.1	0.21	0.48	1.17
12	0.39	2.3	1.2	0.3	0.1	0.18	0.36	0.45
Summary	20.37	65.3	42.8	12.6	4.7	10.63	18.38	28.39

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Station: **OGALLALA, NE US**

GHCND:USC00256200
 Elev: 3228 ft. Lat: 41.128° N Lon: 101.720° 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	5.7	2.5	1.4	0.5	0.3	-7777	@	@	@	@	1.0	5.1	7.5
2	5.7	3.1	1.7	0.5	0.1	0.1	@	@	@	@	1.3	4.1	7.4
3	4.7	2.7	1.8	0.6	0.1	-7777	@	@	@	@	1.8	4.7	6.9
4	3.0	1.1	0.9	0.4	0.2	-7777	@	@	@	@	0.0	0.9	3.7
5	-7777	-7777	-7777	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	0.1	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.6	0.6	0.3	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.4
11	4.0	1.7	1.2	0.4	0.2	0.0	@	@	@	@	0.6	2.0	5.9
12	3.8	2.2	1.2	0.4	0.1	0.0	@	@	@	@	0.8	4.0	5.9
Summary	27.6	13.9	8.5	2.9	1.0	0.1	9999	9999	9999	9999	5.5	20.8	37.7

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Station: **OGALLALA, NE US**

GHCND:USC00256200

Elev: 3228 ft. Lat: 41.128° N Lon: 101.720° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	31	109	275	573	868	1107	1048	702	347	92	11
45	2	9	48	169	423	719	951	893	555	223	43	2
50	-7777	2	16	89	285	570	797	738	412	122	14	-7777
55	-7777	-7777	4	39	170	423	642	583	279	53	3	-7777
60	0	-7777	-7777	14	86	285	487	430	167	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	45	113	209	355	545	707	672	441	252	93	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	43	152	427	1000	1868	2975	4023	4725	5072	5164	5175
45	2	11	59	228	651	1370	2321	3214	3769	3992	4035	4037
50	-7777	2	18	107	392	962	1759	2497	2909	3031	3045	-7777
55	-7777	-7777	4	43	213	636	1278	1861	2140	2193	2196	-7777
60	0	-7777	-7777	14	100	385	872	1302	1469	1486	-7777	1486
Growing Degree Units for Corn (Monthly)												
50/86	25	70	183	392	747	1292	1999	2671	3112	3364	3457	3482

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: **SPRINGFIELD 7 E, NE US**

GHCND:USC00258088
 Elev: 1109 ft. Lat: 41.062° N Lon: 96.007° 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	32.6	12.5	22.6				-7777	-7777	0	0	0	0	1005	1067	1160	1315	0.0	0.0	3.0	14.1	30.1	6.7
2	38.3	17.1	27.7				-7777	-7777	0	0	0	0	764	820	904	1044	0.0	0.0	5.3	9.2	27.0	1.6
3	50.0	26.8	38.4				8	4	2	-7777	0	0	522	581	671	825	0.0	0.0	14.8	1.8	23.8	0.4
4	62.7	39.0	50.9				66	47	27	7	1	-7777	190	232	301	431	0.0	0.0	26.3	0.2	6.9	0.0
5	72.2	51.2	61.7				236	187	124	51	13	6	28	42	71	153	0.0	0.3	31.0	0.0	0.2	0.0
6	81.4	61.3	71.4				490	431	342	202	88	56	1	1	2	11	0.0	2.1	30.0	0.0	0.0	0.0
7	85.8	66.1	76.0				649	587	494	341	197	143	0	0	-7777	2	0.2	7.1	31.0	0.0	0.0	0.0
8	83.1	63.6	73.4				568	506	414	266	135	93	-7777	-7777	-7777	7	0.0	3.3	31.0	0.0	0.0	0.0
9	76.4	53.9	65.2				316	265	193	97	35	21	12	21	39	93	0.0	1.6	30.0	0.0	0.0	0.0
10	64.1	40.6	52.4				84	62	36	12	3	1	167	206	273	404	0.0	0.2	28.0	0.0	5.5	0.0
11	48.6	28.6	38.6				6	3	1	-7777	0	0	498	555	643	792	0.0	0.0	12.3	2.6	20.9	0.0
12	35.3	16.1	25.7				-7777	-7777	0	0	0	0	907	969	1062	1218	0.0	0.0	3.8	12.7	29.4	2.5
Summary	60.9	39.7	50.3	9999	9999	9999	2423	2092	1633	976	472	320	4094	4494	5126	6295	0.2	14.6	246.5	40.6	143.8	11.2

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Station: **SPRINGFIELD 7 E, NE US**

GHCND:USC00258088

Elev: 1109 ft. Lat: 41.062° N Lon: 96.007° 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	0.89	@	@	@	@			
2	1.12	@	@	@	@			
3	2.07	@	@	@	@			
4	3.26	@	@	@	@			
5	4.92	@	@	@	@			
6	4.67	@	@	@	@			
7	3.90	@	@	@	@			
8	4.06	@	@	@	@			
9	3.02	@	@	@	@			
10	2.33	@	@	@	@			
11	1.52	@	@	@	@			
12	1.07	@	@	@	@			
Summary	32.83	9999	9999	9999	9999	9999	9999	9999

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Station: **SPRINGFIELD 7 E, NE US**

GHCND:USC00258088

Elev: 1109 ft. Lat: 41.062° N Lon: 96.007° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	20	103	348	673	940	1114	1034	754	392	94	12
45	3	7	52	227	518	790	959	879	605	265	48	2
50	1	1	22	130	370	640	804	723	457	160	18	-7777
55	-7777	-7777	8	66	236	490	649	568	316	84	6	-7777
60	0	0	2	27	124	342	494	414	193	36	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	21	82	208	396	631	769	706	469	236	61	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	28	131	479	1152	2092	3206	4240	4994	5386	5480	5492
45	3	10	62	289	807	1597	2556	3435	4040	4305	4353	4355
50	1	2	24	154	524	1164	1968	2691	3148	3308	3326	-7777
55	-7777	-7777	8	74	310	800	1449	2017	2333	2417	2423	-7777
60	0	0	2	29	153	495	989	1403	1596	1632	1633	1633
Growing Degree Units for Corn (Monthly)												
50/86	8	29	111	319	715	1346	2115	2821	3290	3526	3587	3597

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: **MULLEN, NE US**

GHCND:USC00255700
 Elev: 3215 ft. Lat: 42.043° N Lon: 101.046° 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	39.1	14.2	26.7	6.2	5.7	5.6	0	0	0	0	0	0	879	941	1034	1189	0.0	0.0	5.8	8.3	29.9	3.9
2	41.6	16.3	29.0	6.0	5.5	5.5	-7777	-7777	0	0	0	0	729	785	869	1009	0.0	0.0	9.7	7.5	26.1	3.6
3	52.8	24.9	38.9	4.5	2.6	3.2	4	2	1	-7777	-7777	0	505	565	656	811	0.0	0.0	18.3	2.4	23.6	0.5
4	62.8	33.2	48.0	4.8	3.7	3.9	45	32	18	5	1	1	255	302	378	515	0.1	0.5	24.9	0.2	13.4	0.0
5	73.3	45.1	59.2	3.8	2.0	2.7	187	147	97	38	8	3	57	79	122	218	0.0	0.9	30.2	0.0	1.7	0.0
6	82.6	54.1	68.4	3.2	2.9	2.8	402	345	263	143	58	36	2	4	12	43	0.1	6.0	30.0	0.0	0.1	0.0
7	89.4	59.4	74.4	3.7	1.8	2.5	601	539	447	296	160	116	-7777	-7777	1	5	1.7	15.2	31.0	0.0	0.0	0.0
8	87.3	58.6	72.9	2.9	2.2	2.4	556	495	404	259	132	91	-7777	1	3	13	0.4	12.0	31.0	0.0	0.0	0.0
9	77.4	47.9	62.7	3.0	2.8	2.6	265	218	155	73	26	15	35	49	75	144	0.0	3.1	29.5	0.0	1.6	0.0
10	63.8	36.1	50.0	3.7	2.6	2.8	52	34	16	3	-7777	-7777	209	253	328	470	0.0	0.3	26.6	0.3	9.9	0.0
11	48.1	24.2	36.1	6.0	4.0	4.9	3	1	-7777	0	0	0	569	627	716	865	0.0	0.0	13.5	3.4	23.0	1.1
12	37.9	14.9	26.4	6.1	5.2	5.5	0	0	0	0	0	0	886	948	1041	1196	0.0	0.0	6.3	9.3	29.8	3.5
Summary	63.0	35.7	49.4	4.5	3.4	3.7	2115	1813	1401	817	385	262	4126	4554	5235	6478	2.3	38.0	256.8	31.4	159.1	12.6

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **MULLEN, NE US**

GHCND:USC00255700
Elev: 3215 ft. Lat: 42.043° N Lon: 101.046° 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	0.38	2.6	1.0	0.1	0.0	0.07	0.38	0.56
2	0.51	2.8	1.0	0.3	0.1	0.10	0.40	0.80
3	1.29	4.8	3.2	1.1	0.3	0.55	1.21	1.72
4	2.42	6.1	4.2	1.4	0.4	1.31	1.98	3.88
5	2.92	8.5	6.2	1.9	0.8	1.06	2.71	3.66
6	3.54	8.1	6.1	2.6	0.9	2.01	3.15	5.25
7	3.39	8.4	6.3	2.9	0.9	2.17	3.37	4.68
8	2.35	6.3	4.6	1.9	0.7	1.55	2.28	3.00
9	1.79	5.6	4.2	1.2	0.3	1.05	1.49	2.74
10	1.11	4.7	3.3	0.8	0.2	0.54	0.91	1.50
11	0.87	3.1	2.0	0.8	0.3	0.23	0.81	1.40
12	0.56	2.7	1.8	0.3	0.1	0.15	0.35	0.67
Summary	21.13	63.7	43.9	15.3	5.0	10.79	19.04	29.86

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Station: **MULLEN, NE US**

GHCND:USC00255700
Elev: 3215 ft. Lat: 42.043° N Lon: 101.046° 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	6.0	2.7	2.3	0.8	0.2	0.1	13.4	8.7	6.1	1.2	1.0	3.4	5.9
2	3.9	2.6	2.2	0.7	0.3	0.0	8.2	5.2	2.6	1.3	1.5	3.5	4.5
3	7.2	2.4	2.0	1.2	0.5	0.0	5.0	2.5	1.2	0.3	1.0	4.5	13.3
4	6.8	1.2	1.1	0.8	0.4	0.2	1.9	1.2	0.7	0.3	0.0	2.0	15.0
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	0.3	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
10	1.0	0.6	0.6	0.3	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	2.0
11	7.5	2.1	1.8	1.1	0.8	0.2	5.4	3.7	2.5	0.4	1.0	7.0	13.0
12	8.9	2.8	2.6	1.4	0.7	0.1	14.1	9.5	6.4	2.2	4.0	7.5	16.0
Summary	41.6	14.5	12.7	6.4	3.0	0.6	48.7	31.2	19.6	5.7	8.5	27.9	69.7

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

Station: **MULLEN, NE US**

GHCND:USC00255700
Elev: 3215 ft. Lat: 42.043° N Lon: 101.046° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	29	116	275	596	850	1066	1021	680	336	79	10
45	2	8	55	171	445	700	911	866	535	216	36	1
50	-7777	1	20	95	306	551	756	711	394	118	13	-7777
55	0	-7777	4	45	187	402	601	556	265	52	3	0
60	0	0	1	18	97	263	447	404	155	16	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	16	36	115	209	378	542	682	661	437	231	67	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	38	154	429	1025	1875	2941	3962	4642	4978	5057	5067
45	2	10	65	236	681	1381	2292	3158	3693	3909	3945	3946
50	-7777	1	21	116	422	973	1729	2440	2834	2952	2965	-7777
55	0	-7777	4	49	236	638	1239	1795	2060	2112	2115	2115
60	0	0	1	19	116	379	826	1230	1385	1401	-7777	1401
Growing Degree Units for Corn (Monthly)												
50/86	16	52	167	376	754	1296	1978	2639	3076	3307	3374	3391

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: OMAHA WSFO, NE US

GHCND:USW00094918
 Elev: 1309 ft. Lat: 41.367° N Lon: 96.017° 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	32.1	12.7	22.4	6.5	5.8	6.0	0	0	0	0	0	0	1010	1072	1165	1320	0.0	0.0	2.4	14.6	30.4	5.4
2	36.5	16.5	26.5	6.4	5.8	6.0	-7777	-7777	-7777	-7777	0	0	798	854	938	1078	0.0	0.0	4.7	10.1	26.4	3.4
3	49.2	26.6	37.9	5.3	3.9	4.3	10	6	3	1	-7777	-7777	540	598	688	841	0.0	0.0	14.9	3.5	21.7	0.6
4	62.3	37.6	50.0	4.9	3.0	3.8	63	47	29	11	3	1	215	259	330	462	0.0	0.2	24.8	0.1	8.3	0.0
5	71.8	50.0	60.9	3.6	3.3	3.2	218	174	116	48	14	8	35	53	88	175	0.0	0.1	30.7	0.0	0.5	0.0
6	80.7	59.6	70.2	2.7	2.4	2.4	455	397	311	180	81	52	1	2	7	26	-7777	2.6	30.0	0.0	0.0	0.0
7	84.8	65.0	74.9	2.9	2.1	2.4	617	555	462	311	173	126	0	-7777	-7777	4	0.4	6.9	31.0	0.0	0.0	0.0
8	82.8	62.7	72.7	3.5	3.0	3.0	550	489	397	252	129	90	-7777	1	2	12	0.1	5.0	31.0	0.0	0.0	0.0
9	75.5	52.9	64.2	3.4	2.4	2.7	297	248	181	94	35	21	21	32	55	118	0.0	1.4	29.6	0.0	0.2	0.0
10	63.3	41.0	52.1	4.0	2.5	2.9	78	55	31	9	2	1	166	206	275	408	0.0	0.0	27.6	0.1	5.7	0.0
11	47.8	27.9	37.8	6.1	4.8	5.3	9	6	3	-7777	0	0	524	580	667	815	0.0	0.0	13.5	3.4	19.3	0.3
12	33.8	15.7	24.7	6.4	6.3	6.2	-7777	-7777	-7777	0	0	0	938	1000	1093	1247	0.0	0.0	2.9	12.9	29.6	3.8
Summary	60.1	39.0	49.5	4.6	3.8	4.0	2297	1977	1533	906	437	299	4248	4657	5308	6506	0.5	16.2	243.1	44.7	142.1	13.5

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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: **OMAHA WSFO, NE US**

GHCND:USW00094918

Elev: 1309 ft. Lat: 41.367° N Lon: 96.017° 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	0.70	4.7	2.1	0.3	0.0	0.33	0.56	1.07
2	0.86	5.8	2.5	0.3	-7777	0.41	0.76	1.12
3	2.12	8.3	4.8	1.7	0.4	0.98	1.69	3.22
4	3.44	9.7	6.2	2.1	0.7	2.02	3.09	4.25
5	4.70	12.7	8.3	3.1	1.4	3.43	4.10	6.08
6	4.12	10.0	6.6	2.7	1.3	2.52	3.49	4.94
7	3.95	9.6	6.4	2.9	1.1	2.59	3.12	4.87
8	3.53	8.3	5.4	1.7	0.8	1.46	2.63	6.05
9	2.86	8.2	5.6	1.9	0.5	1.74	2.81	3.69
10	2.42	7.4	4.6	1.7	0.5	1.44	1.93	3.23
11	1.49	6.2	3.4	1.0	0.4	0.72	1.08	2.06
12	1.02	6.7	2.8	0.5	0.1	0.50	0.73	1.20
Summary	31.21	97.6	58.7	19.9	7.2	18.14	25.99	41.78

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Station: **OMAHA WSFO, NE US**

GHCND:USW00094918
 Elev: 1309 ft. Lat: 41.367° N Lon: 96.017° 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	5.2	3.3	1.6	0.5	-7777	0.0	13.3	10.3	5.8	0.4	2.2	4.2	7.1
2	4.5	3.5	1.3	0.3	0.1	0.0	12.0	8.0	4.7	0.5	1.4	3.5	7.0
3	5.1	2.7	1.3	0.7	0.2	0.0	5.1	3.3	2.2	0.6	0.5	5.0	6.6
4	1.6	1.0	0.4	0.1	-7777	0.0	1.2	0.5	0.2	0.0	0.0	0.0	1.5
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.5	0.3	0.1	-7777	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.8
11	3.9	2.5	1.3	0.3	-7777	0.0	3.1	1.0	0.6	0.0	0.4	2.8	5.8
12	5.3	4.0	1.6	0.5	0.1	0.0	10.7	5.7	2.6	0.8	3.5	4.9	7.0
Summary	26.5	17.5	7.8	2.5	0.4	0.0	45.8	28.9	16.1	2.3	8.0	20.4	35.8

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Federal Building
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Station: **OMAHA WSFO, NE US**

GHCND:USW00094918

Elev: 1309 ft. Lat: 41.367° N Lon: 96.017° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	19	114	324	648	904	1081	1015	726	393	110	9
45	1	7	60	209	494	754	927	860	578	264	59	2
50	-7777	2	27	121	348	604	772	705	434	156	27	-7777
55	0	-7777	10	63	218	455	617	550	297	78	9	-7777
60	0	-7777	3	29	116	311	462	397	181	31	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	6	17	84	206	386	595	740	682	452	230	68	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	25	139	463	1111	2015	3096	4111	4837	5230	5340	5349
45	1	8	68	277	771	1525	2452	3312	3890	4154	4213	4215
50	-7777	2	29	150	498	1102	1874	2579	3013	3169	3196	-7777
55	0	-7777	10	73	291	746	1363	1913	2210	2288	2297	-7777
60	0	-7777	3	32	148	459	921	1318	1499	1530	1533	-7777
Growing Degree Units for Corn (Monthly)												
50/86	6	23	107	313	699	1294	2034	2716	3168	3398	3466	3473

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: **WILSONVILLE, NE US**

GHCND:USC00259325

Elev: 2300 ft. Lat: 40.112° N Lon: 100.105° 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	0.46	2.4	1.3	0.2	0.0	0.12	0.31	0.76
2	0.56	2.7	1.8	0.3	-7777	0.22	0.51	0.65
3	1.44	4.8	3.1	0.9	0.3	0.50	1.11	2.44
4	2.09	5.7	3.7	1.2	0.6	1.12	1.63	3.04
5	3.87	9.6	6.7	2.4	1.1	2.19	3.99	5.28
6	3.43	8.3	6.1	1.8	0.9	1.77	3.49	4.48
7	3.55	7.5	5.6	2.5	1.1	1.64	3.64	4.95
8	2.78	6.5	4.7	1.9	0.7	1.12	2.29	4.12
9	1.84	5.2	3.6	1.3	0.4	0.88	1.57	2.27
10	2.04	5.0	3.7	1.5	0.6	0.50	1.65	3.32
11	1.03	3.5	2.1	0.7	0.3	0.33	0.79	1.77
12	0.67	2.6	1.7	0.5	-7777	0.09	0.43	0.84
Summary	23.76	63.8	44.1	15.2	6.0	10.48	21.41	33.92

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

Station: **WILSONVILLE, NE US**

GHCND:USC00259325
 Elev: 2300 ft. Lat: 40.112° N Lon: 100.105° 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	2.0	1.8	0.6	0.3	0.1	7.2	3.6	1.9	0.8	1.5	3.8	9.0
2	5.2	2.1	1.8	0.7	0.2	0.0	6.6	3.7	1.8	0.2	2.0	4.5	7.3
3	4.0	1.8	1.6	0.7	0.2	0.1	3.1	1.7	0.8	0.1	1.0	3.5	6.5
4	1.8	0.6	0.6	0.3	0.1	0.0	0.7	0.3	0.2	0.0	0.0	0.0	3.0
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	0.3	-7777	-7777	-7777	-7777	0.0	-7777	-7777	-7777	0.0	0.0	0.0	0.0
10	1.0	0.3	0.3	0.1	-7777	-7777	0.4	0.3	0.1	-7777	0.0	0.0	0.0
11	3.2	1.4	1.3	0.4	0.2	0.1	2.0	1.0	0.5	0.2	0.0	3.0	4.0
12	5.2	2.6	2.0	0.8	0.2	0.0	5.4	3.2	1.7	0.1	1.0	5.0	8.5
Summary	26.1	10.8	9.4	3.6	1.2	0.3	25.4	13.8	7.0	1.4	5.5	19.8	38.3

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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: **NELSON, NE US**

GHCND:USC00255840

Elev: 1716 ft. Lat: 40.198° N Lon: 98.073° 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	0.63	4.3	2.1	0.3	0.0	0.23	0.60	0.81
2	0.70	4.6	2.2	0.2	0.0	0.28	0.54	1.07
3	1.80	6.7	3.8	1.1	0.3	0.89	1.56	2.32
4	2.62	8.5	5.4	1.7	0.6	1.59	2.43	3.38
5	4.52	10.9	7.4	3.0	1.4	2.78	4.61	6.15
6	3.50	10.4	6.2	2.3	1.0	2.04	3.02	4.43
7	4.07	8.7	5.9	2.5	1.2	2.15	3.44	5.43
8	3.09	8.2	5.0	2.1	0.9	2.24	2.64	4.35
9	2.72	7.0	4.7	1.8	0.7	1.59	1.93	3.50
10	2.02	6.2	3.6	1.3	0.5	0.80	1.25	2.86
11	1.34	5.3	2.9	0.9	0.2	0.60	0.97	1.41
12	0.81	4.0	2.1	0.4	0.1	0.26	0.67	1.24
Summary	27.82	84.8	51.3	17.6	6.9	15.45	23.66	36.95

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Station: **NELSON, NE US**

GHCND:USC00255840
 Elev: 1716 ft. Lat: 40.198° N Lon: 98.073° 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	5.1	2.9	1.7	0.4	0.2	-7777	10.0	4.5	1.9	0.4	2.1	4.9	6.5
2	5.4	2.8	1.8	0.7	0.3	0.0	7.9	4.3	2.5	0.6	1.3	5.0	6.7
3	4.4	1.7	1.1	0.6	0.2	-7777	3.0	1.6	1.1	0.4	0.5	1.8	5.0
4	0.9	0.2	0.2	0.1	-7777	0.0	0.2	0.2	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	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.1	0.1	0.1	-7777	-7777	0.2	0.1	0.1	0.1	0.0	0.0	0.0
11	1.9	1.0	0.5	0.3	0.1	0.0	1.4	0.9	0.2	0.0	0.0	0.5	3.0
12	4.8	2.3	1.6	0.6	0.1	-7777	9.1	5.1	2.5	0.5	1.0	4.2	5.8
Summary	23.4	11.0	7.0	2.8	0.9	0.0	31.8	16.7	8.4	2.0	4.9	16.4	27.0

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Station: **KEARNEY 4 NE, NE US**

GHCND:USC00254335
 Elev: 2129 ft. Lat: 40.726° N Lon: 99.013° 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	13.3	24.6	6.7	5.0	5.6	0	0	0	0	0	0	941	1003	1096	1251	0.0	0.0	5.5	11.9	30.7	4.7
2	39.7	16.6	28.1	7.0	5.3	5.8	-7777	-7777	-7777	0	0	0	752	808	892	1032	0.0	0.0	7.1	8.6	26.5	3.0
3	50.3	25.1	37.7	4.9	3.8	3.9	6	4	1	-7777	-7777	0	543	602	692	846	0.0	-7777	16.0	3.5	23.7	0.7
4	62.1	35.3	48.7	4.9	3.0	3.6	52	37	22	7	1	1	241	286	361	496	0.0	0.3	24.4	0.3	11.1	0.0
5	71.5	47.6	59.5	3.6	2.4	2.7	192	152	101	40	10	5	51	73	115	209	0.0	0.9	30.5	0.0	0.8	0.0
6	82.0	57.6	69.8	3.9	2.7	3.1	447	389	305	179	84	56	3	5	11	35	0.4	5.5	30.0	0.0	0.0	0.0
7	86.7	62.6	74.7	3.1	2.3	2.3	609	547	454	304	168	122	-7777	-7777	-7777	5	0.9	10.4	31.0	0.0	0.0	0.0
8	84.6	60.6	72.6	3.3	2.9	2.9	546	484	393	248	124	86	-7777	1	3	12	0.3	7.5	31.0	0.0	0.0	0.0
9	77.0	50.0	63.5	3.6	2.7	2.8	281	234	170	87	33	19	26	39	65	132	0.0	2.7	29.7	0.0	0.6	0.0
10	64.3	37.4	50.9	3.7	2.6	2.7	62	43	24	6	1	1	191	234	307	445	0.0	0.2	27.3	0.3	8.3	0.0
11	49.2	24.9	37.0	6.1	3.7	4.6	3	2	-7777	-7777	0	0	542	600	689	839	0.0	0.0	14.8	3.4	23.9	0.3
12	36.8	15.1	25.9	6.5	5.4	5.8	0	0	0	0	0	0	900	962	1055	1210	0.0	0.0	5.4	10.5	30.7	3.0
Summary	61.7	37.2	49.4	4.8	3.5	3.8	2198	1892	1470	871	421	290	4190	4613	5286	6512	1.6	27.5	252.7	38.5	156.3	11.7

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

Station: **KEARNEY 4 NE, NE US**

GHCND:USC00254335

Elev: 2129 ft. Lat: 40.726° N Lon: 99.013° 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	0.49	3.6	1.6	0.1	-7777	0.20	0.36	0.58
2	0.55	4.2	1.7	0.2	0.0	0.23	0.47	0.70
3	1.79	6.4	3.8	1.0	0.3	0.54	1.79	2.75
4	2.23	7.7	4.4	1.4	0.6	1.23	1.85	3.22
5	4.18	11.8	7.5	2.9	1.0	2.81	3.89	5.22
6	3.93	10.0	6.8	2.4	1.1	2.32	3.63	5.33
7	3.28	8.1	5.4	2.4	1.1	1.43	2.98	4.62
8	3.08	8.2	4.9	2.0	0.9	1.80	3.08	3.74
9	2.07	6.5	3.6	1.2	0.5	0.87	1.47	3.37
10	2.04	6.5	3.5	1.3	0.6	0.70	1.68	2.49
11	1.02	4.9	2.6	0.6	0.1	0.41	0.73	1.78
12	0.57	3.7	1.4	0.2	-7777	0.14	0.34	0.90
Summary	25.23	81.6	47.2	15.7	6.2	12.68	22.27	34.70

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Station: **KEARNEY 4 NE, NE US**

GHCND:USC00254335
 Elev: 2129 ft. Lat: 40.726° N Lon: 99.013° 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	2.5	1.9	0.6	0.3	0.0	7.8	2.5	0.4	0.0	0.8	3.8	6.5
2	5.1	2.8	2.1	0.7	0.3	0.0	6.1	2.3	1.0	0.0	1.6	4.0	6.9
3	4.6	1.9	1.5	0.6	0.3	-7777	2.7	1.3	0.8	0.2	0.6	3.0	6.0
4	1.8	0.7	0.6	0.3	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	1.0
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	0.2	-7777	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.7	0.4	0.3	0.1	-7777	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
11	3.1	1.3	1.1	0.5	0.2	0.0	1.5	0.9	0.4	0.0	0.0	1.0	5.0
12	3.5	2.3	1.7	0.6	0.2	0.0	6.5	3.0	0.8	0.1	0.9	2.0	4.2
Summary	23.4	11.9	9.2	3.4	1.4	0.0	25.2	10.3	3.5	0.3	3.9	13.8	29.6

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Station: **KEARNEY 4 NE, NE US**

GHCND:USC00254335
Elev: 2129 ft. Lat: 40.726° N Lon: 99.013° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	23	105	293	607	894	1074	1010	705	358	88	8
45	2	7	50	186	455	744	919	855	558	235	42	1
50	-7777	1	20	105	313	594	764	700	414	133	15	-7777
55	0	-7777	6	52	192	447	609	546	281	62	3	0
60	0	-7777	1	22	101	305	454	393	170	24	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	32	97	203	364	575	714	667	445	239	79	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	33	138	431	1038	1932	3006	4016	4721	5079	5167	5175
45	2	9	59	245	700	1444	2363	3218	3776	4011	4053	4054
50	-7777	1	21	126	439	1033	1797	2497	2911	3044	3059	-7777
55	0	-7777	6	58	250	697	1306	1852	2133	2195	2198	2198
60	0	-7777	1	23	124	429	883	1276	1446	1470	-7777	1470
Growing Degree Units for Corn (Monthly)												
50/86	18	50	147	350	714	1289	2003	2670	3115	3354	3433	3448

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: **MULLEN 21 NW, NE US**

GHCND:USC00255702
Elev: 3461 ft. Lat: 42.250° N Lon: 101.336° 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	37.1	12.2	24.7	6.4	4.9	5.5	0	0	0	0	0	0	941	1003	1096	1251	0.0	0.0	5.9	10.2	30.5	5.4
2	41.0	15.0	28.0	5.9	5.3	5.5	-7777	-7777	-7777	0	0	0	756	812	896	1036	0.0	0.0	8.4	7.3	27.4	3.9
3	49.0	23.0	36.0	4.7	3.8	4.0	5	3	1	-7777	0	0	594	654	745	899	0.0	0.0	15.7	4.8	26.0	1.0
4	59.2	32.2	45.7	4.5	2.4	3.2	36	25	13	3	-7777	-7777	315	364	441	582	0.0	0.1	21.5	0.8	14.9	0.0
5	69.6	42.7	56.2	3.6	2.6	2.8	129	97	58	19	4	2	93	123	178	294	0.0	0.4	29.6	0.0	3.0	0.0
6	79.4	52.6	66.0	4.2	3.1	3.4	340	287	212	109	42	26	10	17	32	79	0.2	3.7	29.8	0.0	0.0	0.0
7	87.2	58.6	72.9	3.3	2.2	2.6	555	494	403	257	135	96	-7777	1	3	13	1.6	12.4	31.0	0.0	0.0	0.0
8	85.8	57.4	71.6	3.1	2.2	2.5	516	455	365	223	105	70	1	3	6	19	0.7	9.7	31.0	0.0	0.0	0.0
9	76.7	46.3	61.5	3.5	2.2	2.6	241	196	138	66	22	12	46	61	93	171	0.1	3.6	29.3	0.0	1.6	0.0
10	63.0	33.1	48.0	3.5	2.0	2.4	44	29	14	3	-7777	-7777	259	307	385	528	0.0	0.4	25.4	0.5	13.2	-7777
11	48.4	21.4	34.9	6.6	4.0	5.1	3	2	-7777	-7777	0	0	606	665	753	903	0.0	0.0	13.4	4.7	26.0	1.2
12	38.2	13.1	25.6	6.4	5.3	5.7	-7777	-7777	0	0	0	0	910	972	1065	1220	0.0	0.0	6.9	9.2	30.5	4.2
Summary	61.2	34.0	47.6	4.6	3.3	3.8	1869	1588	1204	680	308	206	4531	4982	5693	6995	2.6	30.3	247.9	37.5	173.1	15.7

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Station: **MULLEN 21 NW, NE US**

GHCND:USC00255702
Elev: 3461 ft. Lat: 42.250° N Lon: 101.336° 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	0.47	5.5	1.9	0.1	0.1	0.22	0.33	0.61
2	0.65	6.1	2.1	0.2	0.0	0.27	0.59	0.82
3	1.79	8.7	4.8	1.0	0.1	1.00	1.64	2.35
4	2.47	10.2	5.8	1.7	0.6	1.23	2.06	3.28
5	3.22	10.7	6.7	1.9	0.7	1.81	2.93	4.06
6	3.97	10.4	6.8	2.5	1.0	2.55	4.25	5.08
7	3.39	9.3	5.6	2.0	0.9	1.74	2.81	4.67
8	2.31	7.6	4.5	1.7	0.6	1.43	1.93	2.86
9	1.72	7.1	4.1	1.0	0.3	1.11	1.72	2.19
10	1.69	7.0	3.5	1.0	0.4	0.80	1.29	2.50
11	1.03	5.6	3.0	0.7	0.3	0.37	0.70	1.79
12	0.57	5.2	2.1	-7777	0.0	0.35	0.54	0.88
Summary	23.28	93.4	50.9	13.8	5.0	12.88	20.79	31.09

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **MULLEN 21 NW, NE US**

GHCND:USC00255702
 Elev: 3461 ft. Lat: 42.250° N Lon: 101.336° 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	7.4	5.6	2.9	0.7	0.3	0.1	15.3	10.7	6.7	2.7	2.5	5.2	10.2
2	7.5	5.3	3.5	0.5	0.2	0.0	13.0	7.3	3.1	1.4	3.3	5.0	11.5
3	13.0	6.3	4.7	1.8	0.7	0.0	9.6	5.0	2.7	0.3	6.6	12.1	16.9
4	11.0	3.4	2.6	1.6	0.7	0.3	4.0	2.0	1.3	0.4	2.7	8.0	16.0
5	0.3	0.2	0.1	-7777	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	1.1	0.5	0.4	0.2	0.1	-7777	0.3	0.2	0.1	-7777	0.0	0.0	0.0
10	4.3	1.5	1.2	0.5	0.2	0.1	1.9	1.0	0.5	0.1	0.1	2.0	4.1
11	11.1	4.3	3.1	1.3	0.7	0.2	9.3	5.7	3.9	1.1	3.3	9.7	16.7
12	7.6	5.4	3.4	1.0	0.2	-7777	15.4	10.2	6.9	3.0	5.0	7.6	11.6
Summary	63.3	32.5	21.9	7.6	3.1	0.7	68.8	42.1	25.2	9.0	23.5	49.6	87.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
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Station: **MULLEN 21 NW, NE US**

GHCND:USC00255702
Elev: 3461 ft. Lat: 42.250° N Lon: 101.336° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	23	90	232	503	780	1020	979	647	294	81	14
45	2	6	42	142	359	630	864	824	504	184	39	3
50	-7777	1	18	77	230	482	710	669	365	99	14	-7777
55	0	-7777	5	36	129	340	555	516	241	44	3	-7777
60	0	-7777	1	13	58	212	403	365	138	14	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	34	90	173	314	487	651	628	413	223	84	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	34	124	356	859	1639	2659	3638	4285	4579	4660	4674
45	2	8	50	192	551	1181	2045	2869	3373	3557	3596	3599
50	-7777	1	19	96	326	808	1518	2187	2552	2651	2665	-7777
55	0	-7777	5	41	170	510	1065	1581	1822	1866	1869	-7777
60	0	-7777	1	14	72	284	687	1052	1190	1204	-7777	1204
Growing Degree Units for Corn (Monthly)												
50/86	18	52	142	315	629	1116	1767	2395	2808	3031	3115	3139

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: **CHADRON MUNICIPAL AIRPORT, NE US**

GHCND:USW00024017
Elev: 3294 ft. Lat: 42.837° N Lon: 103.098° 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	38.7	10.2	24.4	6.1	4.9	5.3	0	0	0	0	0	0	947	1009	1102	1257	0.0	0.0	6.8	8.6	30.4	6.7
2	42.0	12.8	27.4	6.8	6.2	6.3	-7777	-7777	0	0	0	0	773	829	913	1053	0.0	0.0	8.8	6.5	27.2	4.7
3	50.8	20.8	35.8	5.0	4.0	4.2	4	2	-7777	-7777	0	0	599	659	751	905	0.0	0.0	17.2	3.6	27.4	1.4
4	60.1	29.6	44.8	4.3	3.0	3.3	25	16	8	2	-7777	-7777	329	381	462	606	0.0	0.1	22.7	0.7	18.6	0.0
5	70.7	41.0	55.8	4.1	2.7	3.1	124	92	55	18	4	2	97	128	184	302	0.0	1.0	29.7	0.0	4.5	0.0
6	81.3	50.5	65.9	4.1	3.5	3.6	337	283	208	108	44	28	10	16	31	81	0.6	5.8	29.9	0.0	0.1	0.0
7	89.8	57.4	73.6	4.0	2.6	3.2	577	515	424	276	150	108	-7777	1	2	10	3.1	15.6	31.0	0.0	0.0	0.0
8	89.0	55.4	72.2	3.2	2.6	2.7	535	474	385	243	123	84	2	3	7	20	1.5	15.5	31.0	0.0	0.0	0.0
9	78.0	44.1	61.0	3.8	2.5	2.8	231	188	132	63	22	12	49	67	100	181	0.1	4.7	29.3	0.0	2.7	0.0
10	63.9	31.3	47.6	3.8	2.6	2.8	37	25	13	2	-7777	-7777	267	317	398	542	0.0	0.4	26.2	0.5	15.9	0.1
11	48.5	19.4	34.0	6.7	4.5	5.4	2	1	-7777	-7777	0	0	634	693	782	931	0.0	0.0	13.8	3.9	26.6	1.6
12	38.4	10.4	24.4	6.6	6.8	6.6	-7777	-7777	0	0	0	0	948	1010	1103	1258	0.0	0.0	6.7	9.1	30.4	6.4
Summary	62.6	31.9	47.2	4.9	3.8	4.1	1872	1596	1225	712	343	234	4655	5113	5835	7146	5.3	43.1	253.1	32.9	183.8	20.9

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

Station: **CHADRON MUNICIPAL AIRPORT, NE US**

GHCND:USW00024017
Elev: 3294 ft. Lat: 42.837° N Lon: 103.098° 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	0.36	3.8	1.4	0.1	0.0	0.19	0.33	0.44
2	0.61	4.4	1.7	0.2	-7777	0.16	0.48	0.81
3	1.23	5.9	3.3	0.7	0.2	0.50	0.89	1.77
4	1.98	8.9	5.2	1.1	0.2	0.85	1.98	2.84
5	2.76	10.8	6.2	1.8	0.5	1.61	2.30	3.50
6	3.24	9.5	6.3	2.2	0.6	1.97	2.76	4.46
7	2.11	7.9	4.6	1.4	0.4	1.39	2.07	2.71
8	1.58	6.7	3.5	0.9	0.4	0.87	1.40	2.12
9	1.73	7.2	3.6	1.1	0.3	0.79	1.41	2.29
10	1.31	5.7	3.4	0.7	0.1	0.65	1.15	1.59
11	0.62	4.0	2.0	0.2	0.0	0.36	0.53	0.90
12	0.52	4.4	1.8	0.1	0.0	0.24	0.50	0.65
Summary	18.05	79.2	43.0	10.5	2.7	9.58	15.80	24.08

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Station: **CHADRON MUNICIPAL AIRPORT, NE US**

GHCND:USW00024017
Elev: 3294 ft. Lat: 42.837° N Lon: 103.098° 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	3.5	2.1	0.4	0.1	0.0	13.9	6.6	3.4	0.3	1.5	4.1	7.1
2	6.6	4.2	2.2	0.5	0.2	-7777	10.2	4.6	2.2	0.5	3.6	6.1	8.0
3	9.6	3.5	2.6	1.1	0.5	0.2	7.0	3.7	2.4	0.7	3.4	7.4	13.2
4	4.2	2.3	1.7	0.5	0.2	0.0	2.7	1.2	0.7	0.0	0.1	4.5	7.0
5	0.4	0.3	0.2	-7777	0.0	0.0	0.2	0.1	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	0.1	0.1	-7777	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	3.4	1.2	0.9	0.4	0.2	0.0	1.4	0.7	0.4	-7777	0.0	1.2	4.9
11	5.3	2.9	2.2	0.6	0.1	0.0	5.9	3.6	2.2	0.3	0.9	2.4	11.0
12	8.6	4.6	3.1	0.9	0.4	-7777	14.2	8.7	5.1	1.4	5.0	7.7	14.0
Summary	42.7	22.6	15.0	4.4	1.7	0.2	55.6	29.2	16.4	3.2	14.5	33.4	65.2

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Station: **CHADRON MUNICIPAL AIRPORT, NE US**

GHCND:USW00024017
Elev: 3294 ft. Lat: 42.837° N Lon: 103.098° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	19	80	210	495	777	1041	998	634	280	67	10
45	2	5	35	121	351	627	886	843	490	170	31	2
50	-7777	1	13	60	224	479	731	688	353	88	10	-7777
55	0	-7777	4	25	124	337	577	535	231	37	2	-7777
60	0	0	-7777	8	55	208	424	385	132	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	20	35	100	181	327	488	651	625	418	234	79	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	29	109	319	814	1591	2632	3630	4264	4544	4611	4621
45	2	7	42	163	514	1141	2027	2870	3360	3530	3561	3563
50	-7777	1	14	74	298	777	1508	2196	2549	2637	2647	-7777
55	0	-7777	4	29	153	490	1067	1602	1833	1870	1872	-7777
60	0	0	-7777	8	63	271	695	1080	1212	1225	-7777	1225
Growing Degree Units for Corn (Monthly)												
50/86	20	55	155	336	663	1151	1802	2427	2845	3079	3158	3179

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: **MADISON 2 W, NE US**

GHCND:USC00255080
 Elev: 1581 ft. Lat: 41.829° N Lon: 97.450° 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	32.2	10.5	21.3	6.9	5.1	5.8	0	0	0	0	0	0	1043	1105	1198	1353	0.0	0.0	3.6	14.8	30.8	6.3
2	36.1	15.1	25.6	7.0	5.4	6.0	-7777	-7777	-7777	0	0	0	823	879	963	1103	0.0	0.0	5.3	10.6	26.8	4.1
3	47.6	24.5	36.0	5.4	3.5	4.0	5	3	1	-7777	-7777	-7777	592	652	743	898	0.0	0.0	13.8	3.9	23.9	0.5
4	60.9	35.5	48.2	4.6	3.4	3.6	50	36	21	8	2	1	254	300	375	512	0.0	0.4	23.5	0.4	10.4	0.0
5	71.6	47.3	59.4	3.6	3.5	3.3	191	151	100	41	12	6	53	75	117	213	0.0	0.7	30.4	0.0	0.9	0.0
6	81.1	57.8	69.5	3.2	3.1	2.9	436	379	296	172	79	53	3	6	13	39	0.1	3.9	30.0	0.0	0.0	0.0
7	85.2	62.4	73.8	2.7	2.4	2.3	583	521	428	279	148	104	-7777	-7777	-7777	6	0.3	7.4	31.0	0.0	0.0	0.0
8	83.1	60.4	71.8	3.0	2.7	2.7	519	458	367	225	108	72	-7777	1	3	16	0.1	5.4	31.0	0.0	0.0	0.0
9	76.0	49.9	62.9	3.5	2.8	2.8	267	221	158	78	30	17	29	42	69	140	0.0	1.9	29.6	0.0	0.9	0.0
10	63.4	36.8	50.1	3.8	3.1	3.0	57	39	21	6	1	1	209	253	328	468	0.0	0.2	26.6	0.2	9.6	0.0
11	46.8	24.7	35.7	6.2	4.1	4.8	4	2	1	-7777	0	0	581	640	728	878	0.0	0.0	12.5	4.5	23.9	0.3
12	33.7	13.2	23.4	6.6	5.8	6.0	-7777	0	0	0	0	0	978	1040	1133	1288	0.0	0.0	3.6	13.3	30.4	4.3
Summary	59.8	36.5	48.1	4.7	3.7	3.9	2112	1810	1393	809	380	254	4565	4993	5670	6914	0.5	19.9	240.9	47.7	157.6	15.5

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Station: **MADISON 2 W, NE US**

GHCND:USC00255080

Elev: 1581 ft. Lat: 41.829° N Lon: 97.450° 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	0.58	3.5	1.6	0.3	-7777	0.21	0.54	0.73
2	0.73	3.7	2.1	0.4	0.1	0.31	0.57	1.04
3	1.87	5.5	3.7	1.1	0.4	0.76	1.32	2.85
4	2.76	7.2	5.3	1.7	0.7	1.35	2.20	3.81
5	4.17	9.8	7.7	3.1	1.1	2.91	4.05	5.52
6	4.57	9.6	7.0	3.2	1.4	2.52	3.54	5.90
7	3.30	7.8	5.9	2.2	1.1	1.59	2.88	4.54
8	3.44	6.9	4.9	1.9	1.0	1.70	3.20	4.72
9	2.67	6.6	4.1	1.5	0.7	1.30	2.71	3.94
10	2.42	6.4	4.2	1.5	0.7	0.70	1.66	3.75
11	1.47	3.6	2.7	1.0	0.4	0.48	1.10	2.59
12	0.78	4.1	2.5	0.3	-7777	0.27	0.48	0.93
Summary	28.76	74.7	51.7	18.2	7.6	14.10	24.25	40.32

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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: **MADISON 2 W, NE US**

GHCND:USC00255080

Elev: 1581 ft. Lat: 41.829° N Lon: 97.450° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	14	84	280	603	883	1048	984	689	337	77	6
45	1	4	39	175	452	733	893	829	541	218	38	1
50	-7777	-7777	15	99	311	584	738	674	399	122	15	-7777
55	0	-7777	5	50	191	436	583	519	267	57	4	-7777
60	0	-7777	1	21	100	296	428	367	158	21	1	0
Growing Degree Units for Corn (Monthly)												
50/86	10	18	75	190	366	573	704	655	436	226	62	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	102	382	985	1868	2916	3900	4589	4926	5003	5009
45	1	5	44	219	671	1404	2297	3126	3667	3885	3923	3924
50	-7777	-7777	15	114	425	1009	1747	2421	2820	2942	2957	-7777
55	0	-7777	5	55	246	682	1265	1784	2051	2108	2112	-7777
60	0	-7777	1	22	122	418	846	1213	1371	1392	1393	1393
Growing Degree Units for Corn (Monthly)												
50/86	10	28	103	293	659	1232	1936	2591	3027	3253	3315	3324

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: **BLOOMFIELD, NE US**

GHCND:USC00250945

Elev: 1739 ft. Lat: 42.594° N Lon: 97.644° 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	0.61	5.3	1.7	0.2	0.0	0.37	0.62	0.82
2	0.83	4.9	2.2	0.4	0.1	0.40	0.79	1.16
3	1.91	7.2	4.5	1.2	0.2	0.97	1.60	2.29
4	3.14	9.9	5.9	1.8	0.8	1.59	2.70	4.39
5	4.07	11.4	7.4	2.6	1.0	2.77	3.92	5.53
6	4.18	11.3	7.1	2.9	1.3	2.89	3.76	5.33
7	3.12	8.6	5.4	1.9	0.8	1.73	2.62	4.53
8	2.97	8.6	4.7	2.0	0.9	1.43	3.26	3.91
9	2.86	7.5	4.9	1.8	0.8	1.30	2.77	4.51
10	2.25	7.4	4.1	1.4	0.6	0.81	1.58	3.72
11	1.28	5.8	3.1	0.7	0.2	0.55	1.04	1.43
12	0.81	5.2	2.1	0.2	0.1	0.26	0.63	1.12
Summary	28.03	93.1	53.1	17.1	6.8	15.07	25.29	38.74

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Station: **BLOOMFIELD, NE US**

GHCND:USC00250945

Elev: 1739 ft. Lat: 42.594° N Lon: 97.644° 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	6.9	4.3	2.3	0.8	0.3	-7777	18.0	12.3	6.8	1.8	3.0	6.1	10.5
2	6.6	3.8	2.3	0.8	0.3	0.1	13.6	9.3	6.2	2.4	2.5	5.0	9.0
3	6.7	3.6	2.6	0.8	0.3	0.0	9.0	5.9	3.0	0.4	2.5	6.1	9.0
4	4.7	1.7	1.4	0.6	0.3	-7777	2.2	1.2	0.6	-7777	0.0	1.7	9.2
5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-7777	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	1.2	0.5	0.4	0.1	-7777	-7777	0.7	0.2	0.1	-7777	0.0	0.0	1.0
11	6.8	2.6	2.0	1.0	0.3	0.1	6.2	3.7	1.8	0.4	2.0	4.2	11.0
12	7.4	4.5	2.7	0.9	0.2	-7777	16.6	10.0	4.7	2.1	2.4	6.0	12.0
Summary	40.3	21.0	13.7	5.0	1.7	0.2	66.4	42.7	23.2	7.1	12.4	29.1	61.7

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

Station: **DODGE, NE US**

GHCND:USC00252380

Elev: 1401 ft. Lat: 41.723° N Lon: 96.883° 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	0.57	4.1	1.7	0.3	0.0	0.25	0.59	0.87
2	0.67	4.6	1.8	0.3	-7777	0.38	0.54	0.96
3	1.96	6.3	4.2	1.3	0.3	0.78	1.56	2.96
4	3.10	8.6	5.8	2.1	0.8	1.42	2.93	3.89
5	4.58	9.9	8.1	3.6	1.3	3.17	4.27	5.19
6	4.90	8.6	6.3	2.9	1.2	2.35	3.70	6.58
7	3.56	8.0	5.4	2.6	1.0	2.10	3.07	4.24
8	3.49	6.9	5.1	2.0	0.8	1.48	2.82	4.76
9	3.00	6.2	4.6	1.9	0.9	1.36	2.59	4.40
10	2.19	5.6	3.9	1.4	0.6	0.64	1.78	3.35
11	1.40	4.9	3.0	1.0	0.3	0.57	1.05	1.93
12	0.79	4.5	2.2	0.4	-7777	0.30	0.55	1.01
Summary	30.21	78.2	52.1	19.8	7.2	14.80	25.45	40.14

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Station: **DODGE, NE US**

GHCND:USC00252380
 Elev: 1401 ft. Lat: 41.723° N Lon: 96.883° 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	7.1	3.3	2.5	0.8	0.3	0.0	17.0	12.0	8.5	0.6	3.5	6.9	11.0
2	7.2	3.1	2.3	0.9	0.3	0.1	13.3	9.1	5.4	2.2	5.0	6.3	9.0
3	6.0	2.1	1.8	0.9	0.4	0.1	5.6	3.1	1.9	0.4	0.5	4.3	9.8
4	2.4	0.7	0.6	0.3	0.2	-7777	1.0	0.5	0.4	0.1	0.0	0.0	3.0
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	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
11	3.5	1.6	1.4	0.5	0.1	-7777	3.7	1.5	0.6	0.3	0.5	2.0	5.3
12	7.3	3.2	2.4	0.9	0.3	0.0	13.6	8.6	5.1	1.6	3.5	7.0	11.2
Summary	34.0	14.1	11.1	4.4	1.6	0.2	54.5	35.0	21.9	5.2	13.0	26.5	49.3

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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: **AURORA, NE US**

GHCND:USC00250445
 Elev: 1785 ft. Lat: 40.859° N Lon: 97.996° 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	14.1	24.6	6.4	5.3	5.6	0	0	0	0	0	0	942	1004	1097	1252	0.0	0.0	4.6	13.0	30.3	4.4
2	38.9	18.3	28.6	6.7	5.4	5.8	-7777	-7777	-7777	0	0	0	739	795	879	1019	0.0	0.0	6.6	9.2	25.5	2.6
3	50.4	27.5	38.9	5.2	3.6	4.1	10	6	2	1	-7777	0	508	566	655	808	0.0	0.1	15.8	2.9	21.3	0.4
4	62.5	38.2	50.4	4.7	3.2	3.6	70	52	32	11	3	1	210	252	321	451	0.0	0.4	24.4	0.2	7.0	0.0
5	72.4	50.2	61.3	3.9	3.0	3.3	233	188	128	55	17	9	38	55	88	170	0.0	1.0	30.6	0.0	0.1	0.0
6	82.4	59.8	71.1	3.6	2.6	2.9	484	426	340	208	103	71	1	3	7	25	0.3	5.0	30.0	0.0	0.0	0.0
7	86.3	64.4	75.4	3.0	2.1	2.3	631	569	476	324	184	136	-7777	-7777	-7777	3	0.6	10.0	31.0	0.0	0.0	0.0
8	84.5	62.4	73.4	3.4	2.5	2.8	572	510	418	270	142	101	-7777	-7777	1	8	0.3	7.6	31.0	0.0	0.0	0.0
9	77.0	52.2	64.6	3.2	2.5	2.6	309	259	192	100	39	23	21	31	54	112	0.0	2.5	29.7	0.0	0.3	0.0
10	64.9	39.6	52.3	3.3	2.4	2.5	77	54	30	9	2	1	162	202	270	404	0.0	0.2	27.8	0.2	6.0	0.0
11	49.2	27.4	38.3	6.1	3.7	4.7	7	4	1	-7777	0	0	508	565	652	801	0.0	0.0	14.5	3.6	20.5	0.1
12	36.4	16.6	26.5	6.8	6.0	6.2	-7777	0	0	0	0	0	883	945	1038	1193	0.0	0.0	4.9	10.8	30.0	2.7
Summary	61.7	39.2	50.5	4.7	3.5	3.9	2393	2068	1619	978	490	342	4012	4418	5062	6246	1.2	26.8	250.9	39.9	141.0	10.2

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

Station: **AURORA, NE US**

GHCND:USC00250445

Elev: 1785 ft. Lat: 40.859° N Lon: 97.996° 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	0.59	3.9	1.7	0.3	0.0	0.30	0.48	0.84
2	0.75	4.5	2.0	0.3	0.1	0.35	0.61	0.91
3	2.18	6.8	4.5	1.2	0.4	0.97	2.06	2.74
4	2.83	8.4	4.9	1.9	0.8	1.41	2.62	3.61
5	4.84	11.8	8.1	3.6	1.2	3.44	4.51	6.71
6	4.84	9.2	6.5	2.9	1.1	2.91	4.68	6.74
7	3.54	8.7	5.9	2.4	0.9	1.85	3.14	4.80
8	3.62	8.6	5.8	2.6	1.0	2.40	3.42	4.99
9	2.93	6.9	4.7	1.8	0.8	1.10	2.74	4.04
10	2.52	6.6	4.2	1.5	0.6	1.17	2.14	3.35
11	1.44	5.6	3.2	1.2	0.3	0.48	1.17	2.27
12	0.88	4.4	2.0	0.4	-7777	0.35	0.78	1.24
Summary	30.96	85.4	53.5	20.1	7.2	16.73	28.35	42.24

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Station: **AURORA, NE US**

GHCND:USC00250445
 Elev: 1785 ft. Lat: 40.859° N Lon: 97.996° 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	3.3	2.1	0.8	0.4	0.0	13.7	8.4	4.7	0.9	1.0	5.2	9.0
2	5.7	3.0	1.9	0.6	0.2	-7777	10.4	6.5	3.6	1.2	2.3	5.0	8.6
3	4.9	2.1	1.5	0.5	0.3	0.1	4.2	2.2	1.5	0.6	0.8	4.0	6.0
4	1.8	0.7	0.6	0.3	0.1	0.0	0.9	0.5	0.2	-7777	0.0	0.0	2.6
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	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.1	0.1	0.1	-7777	0.2	0.1	0.1	0.1	0.0	0.0	0.0
11	3.7	2.1	1.2	0.3	0.2	-7777	3.4	1.5	0.8	0.5	0.8	2.2	4.1
12	4.8	3.1	1.8	0.7	0.2	0.0	10.9	5.9	3.6	1.2	2.7	4.1	6.5
Summary	27.5	14.7	9.3	3.3	1.5	0.1	43.7	25.1	14.5	4.5	7.6	20.5	36.8

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Station: **AURORA, NE US**

GHCND:USC00250445

Elev: 1785 ft. Lat: 40.859° N Lon: 97.996° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	27	124	336	660	933	1096	1037	738	395	110	11
45	3	9	63	222	508	783	941	882	591	266	57	2
50	-7777	2	27	132	362	633	786	727	446	156	24	-7777
55	0	-7777	10	70	233	484	631	572	309	77	7	-7777
60	0	-7777	2	32	128	340	476	418	192	30	1	0
Growing Degree Units for Corn (Monthly)												
50/86	16	27	95	211	392	611	739	692	462	247	79	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	40	164	500	1160	2093	3189	4226	4964	5359	5469	5480
45	3	12	75	297	805	1588	2529	3411	4002	4268	4325	4327
50	-7777	2	29	161	523	1156	1942	2669	3115	3271	3295	-7777
55	0	-7777	10	80	313	797	1428	2000	2309	2386	2393	-7777
60	0	-7777	2	34	162	502	978	1396	1588	1618	1619	1619
Growing Degree Units for Corn (Monthly)												
50/86	16	43	138	349	741	1352	2091	2783	3245	3492	3571	3584

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **WATERLOO, NE US**

GHCND:USC00258980

Elev: 1115 ft. Lat: 41.283° N Lon: 96.283° 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	0.76	3.7	2.2	0.4	0.0	0.48	0.70	0.95
2	0.93	4.0	2.4	0.4	0.1	0.35	0.77	1.37
3	1.99	5.7	3.8	1.6	0.8	1.24	1.85	2.94
4	3.06	7.7	5.5	2.1	0.7	1.80	2.75	3.91
5	4.64	10.5	7.8	3.1	1.2	2.53	4.35	6.34
6	4.49	8.4	6.6	3.0	1.4	1.87	4.01	6.70
7	3.94	8.2	6.4	2.7	1.1	2.49	3.00	4.97
8	3.53	7.6	5.3	2.3	1.1	1.78	2.73	5.48
9	3.20	6.7	4.8	2.1	1.2	1.85	2.88	4.40
10	2.30	5.5	3.6	1.3	0.4	1.14	1.82	3.05
11	1.66	5.1	3.1	1.3	0.4	1.05	1.73	2.26
12	1.07	5.6	2.9	0.4	0.2	0.61	0.87	1.26
Summary	31.57	78.7	54.4	20.7	8.6	17.19	27.46	43.63

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Station: **WATERLOO, NE US**

GHCND:USC00258980
 Elev: 1115 ft. Lat: 41.283° N Lon: 96.283° 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	3.1	1.8	0.8	0.3	0.0	@	@	@	@	1.6	5.6	8.6
2	6.0	3.2	2.4	0.7	0.3	0.0	@	@	@	@	3.1	5.4	9.0
3	4.8	1.9	1.4	0.6	0.3	0.1	@	@	@	@	0.8	3.5	8.5
4	1.7	0.6	0.5	0.3	0.2	0.1	@	@	@	@	0.0	0.0	1.5
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	1.9	0.3	0.3	0.1	0.1	0.1	@	@	@	@	0.0	0.0	1.0
11	3.0	2.0	1.2	0.4	0.1	0.0	@	@	@	@	0.3	2.0	5.3
12	6.4	3.4	2.4	0.8	0.2	0.0	@	@	@	@	4.0	4.8	8.7
Summary	29.7	14.5	10.0	3.7	1.5	0.3	9999	9999	9999	9999	9.8	21.3	42.6

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

Station: **OXFORD 7 NW, NE US**

GHCND:USC00256454

Elev: 2274 ft. Lat: 40.328° N Lon: 99.652° 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	12.4	25.1	6.9	4.1	5.2	0	0	0	0	0	0	928	990	1083	1238	0.0	0.0	6.4	11.0	30.7	4.4
2	43.5	16.2	29.9	7.1	5.1	5.7	-7777	-7777	-7777	0	0	0	704	760	844	984	0.0	0.0	9.9	6.2	27.0	1.7
3	54.3	24.8	39.6	5.3	3.7	4.0	9	5	2	-7777	0	0	488	546	636	789	0.0	0.0	19.0	2.0	24.4	0.7
4	65.2	35.5	50.3	4.7	3.0	3.4	57	40	21	6	1	-7777	197	239	310	445	0.0	0.3	26.2	0.3	10.4	0.0
5	74.0	47.2	60.6	3.5	2.8	2.9	209	166	113	51	16	9	36	55	95	187	0.1	1.5	30.9	0.0	0.6	0.0
6	84.1	57.4	70.7	4.2	3.0	3.3	475	416	331	200	98	67	2	4	9	28	0.6	8.1	30.0	0.0	0.0	0.0
7	88.9	62.4	75.7	3.6	2.0	2.4	640	578	485	333	191	142	0	0	-7777	3	2.3	14.1	31.0	0.0	0.0	0.0
8	86.7	60.4	73.6	3.6	1.9	2.5	575	513	421	272	142	101	-7777	-7777	1	7	1.6	10.5	31.0	0.0	0.0	0.0
9	79.8	50.0	64.9	3.9	2.8	3.0	315	265	197	104	44	28	19	29	50	107	0.2	5.0	29.9	0.0	0.6	0.0
10	66.7	36.9	51.8	4.2	3.2	3.0	75	53	30	10	3	2	174	214	284	419	0.0	0.9	28.1	0.3	9.3	0.0
11	51.9	24.4	38.1	5.4	4.0	4.3	4	2	-7777	-7777	-7777	0	510	568	656	806	0.0	0.0	16.8	1.9	24.3	0.2
12	38.8	13.7	26.2	6.8	4.7	5.5	0	0	0	0	0	0	891	953	1046	1201	0.0	0.0	7.0	9.1	30.7	2.9
Summary	64.3	36.8	50.5	4.9	3.4	3.8	2359	2038	1600	976	495	349	3949	4358	5014	6214	4.8	40.4	266.2	30.8	158.0	9.9

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Station: **OXFORD 7 NW, NE US**

GHCND:USC00256454

Elev: 2274 ft. Lat: 40.328° N Lon: 99.652° 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	0.48	3.2	1.1	0.2	0.0	0.13	0.36	0.59
2	0.48	3.2	1.8	0.2	0.0	0.11	0.43	0.71
3	1.70	5.4	3.4	0.8	0.3	0.71	1.60	2.31
4	2.03	7.7	4.4	1.4	0.6	1.04	1.72	2.56
5	4.03	10.0	6.3	1.9	0.9	2.43	3.48	5.94
6	3.32	8.9	5.9	2.4	1.0	2.15	3.23	4.22
7	3.08	8.8	6.4	2.6	0.8	1.57	2.73	3.89
8	3.76	7.5	5.4	2.9	1.3	1.92	3.21	5.67
9	2.03	5.6	4.4	1.6	0.4	1.15	1.71	2.93
10	1.96	5.4	3.6	1.6	0.6	0.56	1.66	2.93
11	0.89	3.8	1.8	0.6	0.3	0.25	0.55	1.31
12	0.49	2.9	1.1	0.2	0.0	0.16	0.30	0.71
Summary	24.25	72.4	45.6	16.4	6.2	12.18	20.98	33.77

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Station: **OXFORD 7 NW, NE US**

GHCND:USC00256454
 Elev: 2274 ft. Lat: 40.328° N Lon: 99.652° 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	6.2	2.9	1.8	0.6	0.4	0.0	12.5	7.6	3.9	1.0	2.4	4.9	8.7
2	6.8	3.1	1.9	0.9	0.2	0.0	11.7	6.8	3.5	1.1	1.5	4.4	13.8
3	3.7	2.2	1.2	0.4	0.2	0.0	3.2	2.1	1.5	0.4	0.3	3.3	5.6
4	2.2	1.1	0.8	0.3	0.1	0.0	0.8	0.3	0.1	0.0	0.0	0.3	3.8
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	0.7	0.4	0.2	0.1	0.1	0.0	0.3	0.2	0.2	0.0	0.0	0.0	0.0
11	2.5	1.4	0.8	0.3	0.2	0.0	2.2	1.5	0.4	0.0	0.0	1.2	4.0
12	3.7	2.6	1.3	0.4	0.1	0.0	6.9	4.5	2.9	0.0	0.3	2.4	4.3
Summary	25.8	13.7	8.0	3.0	1.3	0.0	37.6	23.0	12.5	2.5	4.5	16.5	40.2

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Station: OXFORD 7 NW, NE US

GHCND:USC00256454

Elev: 2274 ft. Lat: 40.328° N Lon: 99.652° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	25	133	335	639	922	1105	1040	747	384	100	7
45	1	8	68	216	484	772	950	885	599	258	49	2
50	-7777	2	28	122	337	623	795	730	453	153	17	-7777
55	0	-7777	9	57	209	475	640	575	315	75	4	0
60	0	-7777	2	21	113	331	485	421	197	30	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	23	45	133	241	394	589	720	675	471	272	98	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	33	166	501	1140	2062	3167	4207	4954	5338	5438	5445
45	1	9	77	293	777	1549	2499	3384	3983	4241	4290	4292
50	-7777	2	30	152	489	1112	1907	2637	3090	3243	3260	-7777
55	0	-7777	9	66	275	750	1390	1965	2280	2355	2359	2359
60	0	-7777	2	23	136	467	952	1373	1570	1600	-7777	1600
Growing Degree Units for Corn (Monthly)												
50/86	23	68	201	442	836	1425	2145	2820	3291	3563	3661	3681

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

Station: **RAYMOND 2 NE, NE US**

GHCND:USC00257055

Elev: 1319 ft. Lat: 40.974° N Lon: 96.766° 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	12.5	23.0				-7777	-7777	0	0	0	0	992	1054	1147	1302	0.0	0.0	4.3	13.9	30.4	5.5
2	37.9	16.4	27.2				-7777	0	0	0	0	0	779	835	919	1059	0.0	0.0	5.1	9.4	26.6	2.0
3	49.9	26.3	38.1				12	7	2	-7777	0	0	535	593	681	834	0.0	0.0	14.5	2.3	22.9	0.5
4	62.4	37.7	50.1				56	39	20	3	-7777	-7777	205	248	319	452	0.0	0.0	24.6	0.0	7.9	0.0
5	72.2	50.1	61.2				223	177	118	47	11	5	33	49	82	167	0.0	0.5	30.9	0.0	0.1	0.0
6	81.9	60.2	71.1				482	423	335	198	87	55	1	1	4	16	0.0	2.2	30.0	0.0	0.0	0.0
7	87.0	64.9	76.0				649	587	494	342	196	144	0	-7777	-7777	2	0.9	9.4	31.0	0.0	0.0	0.0
8	84.8	62.2	73.5				573	511	419	270	140	98	-7777	-7777	1	7	0.5	7.3	31.0	0.0	0.0	0.0
9	77.6	52.7	65.2				317	266	195	100	39	25	13	22	41	96	0.1	2.7	30.0	0.0	0.0	0.0
10	64.9	39.6	52.3				87	64	38	13	4	2	172	211	278	409	0.0	0.4	27.9	0.0	6.4	0.0
11	49.1	27.0	38.1				5	3	2	-7777	0	0	514	572	660	809	0.0	0.0	14.3	2.6	21.9	0.0
12	35.8	15.1	25.5				-7777	0	0	0	0	0	915	978	1071	1225	0.0	0.0	4.1	11.8	30.0	2.7
Summary	61.4	38.7	50.1	9999	9999	9999	2404	2077	1623	973	477	329	4159	4563	5203	6378	1.5	22.5	247.7	40.0	146.2	10.7

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Station: **RAYMOND 2 NE, NE US**

GHCND:USC00257055

Elev: 1319 ft. Lat: 40.974° N Lon: 96.766° 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	0.65	5.5	2.0	0.2	-7777	0.32	0.56	1.05
2	0.82	5.9	2.4	0.2	-7777	0.24	0.77	1.22
3	2.04	8.2	4.0	1.5	0.4	0.91	1.67	2.73
4	2.66	9.6	5.5	1.7	0.4	1.91	2.56	3.58
5	4.72	11.5	7.3	3.0	1.4	2.91	4.52	5.99
6	4.30	9.9	6.8	2.9	1.3	2.66	4.06	6.13
7	3.70	8.6	5.6	2.5	1.0	1.85	2.99	4.72
8	4.03	8.5	5.5	2.4	1.1	2.23	3.51	4.76
9	3.04	7.3	4.8	1.8	0.8	1.50	2.78	4.02
10	2.19	7.1	4.1	1.4	0.6	1.01	1.73	3.00
11	1.60	5.6	2.6	1.1	0.4	0.84	1.40	2.50
12	0.88	6.1	2.3	0.3	-7777	0.51	0.70	1.00
Summary	30.63	93.8	52.9	19.0	7.4	16.89	27.25	40.70

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Station: **RAYMOND 2 NE, NE US**

GHCND:USC00257055
 Elev: 1319 ft. Lat: 40.974° N Lon: 96.766° 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	6.6	3.7	2.3	0.9	0.3	0.0	12.4	7.1	3.9	1.2	1.1	4.9	8.1
2	6.4	4.2	2.2	0.7	0.3	0.0	10.9	6.6	3.6	0.9	1.5	6.9	10.3
3	4.3	2.4	1.4	0.5	0.3	-7777	3.8	1.8	0.9	0.4	0.6	1.2	6.5
4	1.3	0.6	0.2	0.2	0.1	0.0	0.4	0.2	-7777	0.0	0.0	0.0	0.5
5	-7777	-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	0.8	0.3	0.2	0.1	-7777	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	1.7	1.7	0.9	0.2	-7777	0.0	1.2	0.2	0.0	0.0	0.0	1.0	2.2
12	6.4	3.8	2.1	0.7	0.2	0.0	9.6	5.4	3.5	1.3	2.0	5.6	9.2
Summary	27.5	16.7	9.3	3.3	1.2	0.0	38.6	21.5	12.0	3.9	5.2	19.6	36.8

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Summary of Monthly Normals 1981-2010

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Federal Building
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Station: **RAYMOND 2 NE, NE US**

GHCND:USC00257055
Elev: 1319 ft. Lat: 40.974° N Lon: 96.766° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	18	109	326	656	931	1114	1038	754	393	90	8
45	3	7	58	211	502	781	959	883	604	265	43	1
50	1	1	29	118	354	631	804	728	456	161	16	-7777
55	-7777	-7777	12	56	223	482	649	573	317	87	5	-7777
60	0	0	2	20	118	335	494	419	195	38	2	0
Growing Degree Units for Corn (Monthly)												
50/86	13	20	88	205	387	617	757	694	472	249	68	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	28	137	463	1119	2050	3164	4202	4956	5349	5439	5447
45	3	10	68	279	781	1562	2521	3404	4008	4273	4316	4317
50	1	2	31	149	503	1134	1938	2666	3122	3283	3299	-7777
55	-7777	-7777	12	68	291	773	1422	1995	2312	2399	2404	-7777
60	0	0	2	22	140	475	969	1388	1583	1621	1623	1623
Growing Degree Units for Corn (Monthly)												
50/86	13	33	121	326	713	1330	2087	2781	3253	3502	3570	3582

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: **LINCOLN MUNICIPAL AIRPORT, NE US**

GHCND:USW00014939

Elev: 1191 ft. Lat: 40.851° N Lon: 96.748° 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	35.4	13.8	24.6	6.9	5.2	5.8	0	0	0	0	0	0	942	1004	1097	1252	0.0	0.0	4.7	12.2	30.0	4.3
2	40.1	18.0	29.0	7.0	5.6	6.0	-7777	-7777	-7777	-7777	0	0	727	783	866	1006	0.0	0.0	7.2	8.3	25.0	2.5
3	52.3	27.9	40.1	5.1	3.6	3.9	14	10	5	1	-7777	-7777	476	533	622	773	0.0	0.0	17.0	2.3	20.7	0.3
4	64.3	38.8	51.6	4.3	2.7	3.3	77	57	35	13	3	2	180	221	289	417	0.0	0.5	26.1	-7777	7.5	0.0
5	74.2	50.5	62.3	3.6	3.1	3.0	252	205	144	65	21	12	25	39	71	147	0.0	1.4	30.9	0.0	0.3	0.0
6	84.2	60.9	72.6	3.3	2.6	2.8	527	467	380	242	127	91	-7777	1	4	16	0.5	6.9	30.0	0.0	0.0	0.0
7	89.0	66.1	77.6	3.0	2.5	2.4	699	637	544	390	243	190	0	0	-7777	1	1.8	14.2	31.0	0.0	0.0	0.0
8	86.8	63.8	75.3	3.7	2.9	3.1	629	567	475	324	189	143	-7777	-7777	1	5	1.4	10.4	31.0	0.0	0.0	0.0
9	78.7	53.4	66.0	3.6	2.5	2.7	347	295	222	123	56	38	15	23	41	92	0.1	3.7	29.8	0.0	0.3	0.0
10	65.8	40.6	53.2	3.6	2.8	2.7	92	68	41	15	4	2	148	186	252	381	0.0	0.3	28.5	-7777	5.7	0.0
11	50.3	27.6	38.9	6.0	4.0	4.6	9	6	2	-7777	-7777	0	491	547	634	782	0.0	0.0	15.8	2.4	20.7	-7777
12	37.2	16.4	26.8	6.6	5.7	5.9	-7777	-7777	-7777	0	0	0	874	936	1029	1184	0.0	0.0	5.3	10.1	29.4	2.9
Summary	63.2	39.8	51.5	4.7	3.6	3.9	2646	2312	1848	1173	643	478	3878	4273	4906	6056	3.8	37.4	257.3	35.3	139.6	10.0

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1981-2010**

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

Station: **LINCOLN MUNICIPAL AIRPORT, NE US**

GHCND:USW00014939

Elev: 1191 ft. Lat: 40.851° N Lon: 96.748° 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	0.64	5.4	2.1	0.2	0.0	0.35	0.64	0.92
2	0.77	5.7	2.2	0.3	0.0	0.36	0.63	1.17
3	1.93	8.1	4.4	1.4	0.2	0.88	1.84	2.80
4	2.71	9.5	5.4	1.7	0.5	1.88	2.43	3.46
5	4.29	11.8	7.3	3.1	1.0	2.38	3.84	5.49
6	4.35	10.4	6.7	2.8	1.2	2.47	4.66	5.83
7	3.40	9.1	5.6	2.2	0.7	1.70	2.67	4.17
8	3.49	8.7	5.4	2.3	1.2	2.02	3.01	4.32
9	3.02	7.4	4.9	1.9	0.9	1.47	2.86	3.81
10	1.97	6.9	4.3	1.4	0.3	0.93	1.49	2.76
11	1.43	5.9	2.7	0.9	0.3	0.67	1.16	2.03
12	0.95	6.3	2.6	0.4	0.1	0.41	0.65	1.07
Summary	28.95	95.2	53.6	18.6	6.4	15.52	25.88	37.83

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Station: **LINCOLN MUNICIPAL AIRPORT, NE US**

GHCND:USW00014939
 Elev: 1191 ft. Lat: 40.851° N Lon: 96.748° 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	4.7	2.0	0.6	0.2	0.0	12.7	7.8	4.3	1.1	2.2	5.0	7.5
2	5.6	4.0	1.9	0.6	0.2	0.0	10.9	5.6	2.6	0.4	2.1	5.1	8.1
3	4.8	2.5	1.3	0.5	0.4	-7777	3.5	2.1	1.3	0.1	0.3	2.8	7.4
4	1.4	0.8	0.4	0.2	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	0.6
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.7	0.2	0.1	-7777	-7777	-7777	0.3	0.1	0.1	-7777	0.0	0.0	0.0
11	2.1	1.9	0.7	0.2	-7777	0.0	2.0	0.8	0.4	0.0	0.0	0.5	2.8
12	5.9	4.2	1.8	0.6	0.3	0.0	9.3	5.1	3.3	1.2	3.1	5.2	6.9
Summary	25.9	18.3	8.2	2.7	1.2	0.0	39.3	21.8	12.1	2.8	7.7	18.6	33.3

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Station: LINCOLN MUNICIPAL AIRPORT, NE US

GHCND:USW00014939
Elev: 1191 ft. Lat: 40.851° N Lon: 96.748° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	29	135	361	693	976	1164	1094	782	420	111	10
45	2	10	72	241	538	826	1009	939	632	288	57	2
50	-7777	3	34	144	388	676	854	784	486	175	25	-7777
55	0	-7777	14	77	252	527	699	629	347	92	9	-7777
60	0	-7777	5	35	144	380	544	475	222	41	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	31	109	233	424	647	783	731	499	267	84	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	38	173	534	1227	2203	3367	4461	5243	5663	5774	5784
45	2	12	84	325	863	1689	2698	3637	4269	4557	4614	4616
50	-7777	3	37	181	569	1245	2099	2883	3369	3544	3569	-7777
55	0	-7777	14	91	343	870	1569	2198	2545	2637	2646	-7777
60	0	-7777	5	40	184	564	1108	1583	1805	1846	1848	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	46	155	388	812	1459	2242	2973	3472	3739	3823	3837

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

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Station: **FAIRBURY, NE US**

GHCND:USC00252820

Elev: 1352 ft. Lat: 40.074° N Lon: 97.167° 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	36.8	14.4	25.6	6.3	4.8	5.3	-7777	0	0	0	0	0	911	973	1066	1221	0.0	0.0	5.6	11.5	30.2	4.2
2	41.6	17.9	29.8	6.8	5.4	5.9	1	-7777	-7777	0	0	0	707	763	847	987	0.0	0.0	8.5	7.3	25.8	2.5
3	53.0	27.3	40.1	4.8	3.7	3.9	14	9	4	1	-7777	0	474	531	619	771	0.0	0.0	17.8	2.1	21.9	0.3
4	64.4	37.6	51.0	4.5	3.0	3.5	73	54	33	11	3	1	193	234	302	431	0.0	0.5	25.6	-7777	8.9	0.0
5	73.7	49.1	61.4	3.4	2.9	2.9	231	185	126	54	16	8	32	49	83	165	0.0	1.1	30.8	0.0	0.6	0.0
6	83.7	59.3	71.5	3.5	2.6	2.9	496	437	350	217	109	76	1	2	5	22	0.3	6.4	30.0	0.0	0.0	0.0
7	89.0	64.7	76.8	3.2	2.1	2.3	677	615	522	369	225	174	0	0	-7777	2	1.8	14.0	31.0	0.0	0.0	0.0
8	87.2	62.7	74.9	4.1	2.7	3.2	618	556	464	314	181	137	-7777	-7777	1	6	1.8	11.8	31.0	0.0	0.0	0.0
9	79.3	52.6	66.0	3.6	2.7	2.8	344	292	220	122	55	36	15	23	42	93	0.1	4.0	29.8	0.0	0.2	0.0
10	66.8	40.2	53.5	3.6	2.7	2.7	98	72	42	14	3	2	144	181	244	370	0.0	0.3	28.6	0.1	6.3	0.0
11	51.7	27.8	39.8	5.8	3.8	4.4	11	7	3	1	-7777	-7777	469	524	610	758	0.0	0.0	17.0	2.0	21.2	0.1
12	38.6	17.0	27.8	6.6	6.1	6.1	-7777	-7777	-7777	0	0	0	843	905	998	1153	0.0	0.0	6.9	9.9	29.8	2.6
Summary	63.8	39.2	51.5	4.7	3.5	3.8	2563	2227	1764	1103	592	434	3789	4185	4817	5979	4.0	38.1	262.6	32.9	144.9	9.7

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Station: **FAIRBURY, NE US**

GHCND:USC00252820

Elev: 1352 ft. Lat: 40.074° N Lon: 97.167° 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	0.70	4.6	2.2	0.4	0.0	0.30	0.61	1.04
2	0.86	5.0	2.6	0.4	0.1	0.42	0.79	1.01
3	2.07	7.1	4.5	1.5	0.3	1.32	1.80	2.69
4	2.95	9.6	5.9	1.8	0.6	2.11	2.65	3.62
5	4.84	11.7	8.1	3.0	1.4	2.69	3.92	6.89
6	4.82	9.9	7.0	3.3	1.3	3.51	4.55	5.88
7	4.22	8.8	5.9	2.6	1.2	1.88	3.21	4.76
8	4.01	8.6	5.9	2.8	1.3	2.37	4.00	4.86
9	3.26	7.9	5.2	2.2	0.9	2.03	3.27	4.27
10	2.15	6.8	4.3	1.5	0.4	0.95	1.80	3.18
11	1.49	5.6	3.0	0.9	0.3	0.76	1.10	2.33
12	1.01	4.8	2.5	0.6	0.1	0.30	0.85	1.38
Summary	32.38	90.4	57.1	21.0	7.9	18.64	28.55	41.91

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Station: FAIRBURY, NE US

GHCND:USC00252820

Elev: 1352 ft. Lat: 40.074° N Lon: 97.167° 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	3.3	2.0	0.7	0.3	0.0	12.3	7.5	3.9	1.0	2.0	3.1	8.0
2	5.3	3.1	1.9	0.7	0.3	0.0	8.9	6.1	3.3	1.1	1.2	4.8	7.8
3	3.5	1.5	1.2	0.4	0.2	0.0	2.8	1.4	0.8	0.2	0.0	1.8	5.3
4	0.8	0.4	0.3	0.1	0.1	0.0	0.4	0.2	0.1	-7777	0.0	0.0	0.7
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	0.2	0.1	-7777	-7777	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0
11	2.7	1.3	1.0	0.3	0.2	0.0	2.1	1.0	0.6	0.0	0.0	1.1	4.2
12	5.4	2.9	1.9	0.8	0.1	-7777	9.0	5.7	3.7	0.7	1.0	3.5	8.6
Summary	23.4	12.7	8.4	3.0	1.2	0.0	35.7	22.0	12.5	3.0	4.2	14.3	34.6

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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: FAIRBURY, NE US

GHCND:USC00252820

Elev: 1352 ft. Lat: 40.074° N Lon: 97.167° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	34	140	350	663	945	1142	1083	779	430	125	13
45	2	12	75	232	510	795	987	928	630	297	68	3
50	-7777	3	35	139	362	645	832	773	483	184	31	-7777
55	-7777	1	14	73	231	496	677	618	344	98	11	-7777
60	0	-7777	4	33	126	350	522	464	220	42	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	18	38	116	234	404	618	758	713	495	279	97	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	45	185	535	1198	2143	3285	4368	5147	5577	5702	5715
45	2	14	89	321	831	1626	2613	3541	4171	4468	4536	4539
50	-7777	3	38	177	539	1184	2016	2789	3272	3456	3487	-7777
55	-7777	1	15	88	319	815	1492	2110	2454	2552	2563	-7777
60	0	-7777	4	37	163	513	1035	1499	1719	1761	1764	-7777
Growing Degree Units for Corn (Monthly)												
50/86	18	56	172	406	810	1428	2186	2899	3394	3673	3770	3790

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: LINCOLN 11 SW, NE US

GHCND:USW00094996
 Elev: 1371 ft. Lat: 40.695° N Lon: 96.854° 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	14.5	24.7				-7777	-7777	0	0	0	0	939	1001	1094	1249	0.0	0.0	5.0	12.6	29.7	4.6
2	39.9	17.7	28.8				-7777	-7777	0	0	0	0	733	789	873	1013	0.0	0.0	5.5	8.0	25.8	2.0
3	51.6	27.6	39.6				15	10	5	-7777	0	0	493	549	637	788	0.0	0.0	16.6	1.3	21.1	0.2
4	63.0	38.6	50.8				62	43	22	5	-7777	-7777	188	229	298	431	0.0	0.0	25.5	0.0	7.7	0.0
5	72.7	50.5	61.6				233	187	126	53	14	7	29	44	77	158	0.0	0.2	30.9	0.0	0.0	0.0
6	81.9	60.3	71.1				483	424	337	201	93	62	1	1	4	18	0.0	3.6	30.0	0.0	0.0	0.0
7	86.7	65.6	76.1				655	593	501	349	206	155	0	-7777	-7777	4	0.7	9.7	31.0	0.0	0.0	0.0
8	85.4	62.7	74.1				590	528	436	288	155	113	-7777	-7777	1	7	0.4	7.6	31.0	0.0	0.0	0.0
9	77.8	53.6	65.7				332	280	208	110	48	32	11	20	37	89	0.1	2.9	29.9	0.0	0.0	0.0
10	65.2	40.6	52.9				95	72	45	18	5	3	160	199	265	393	0.0	0.3	28.2	0.0	5.9	0.0
11	49.7	28.0	38.9				6	4	2	-7777	-7777	0	490	548	636	785	0.0	0.0	15.0	2.4	20.4	0.0
12	36.9	17.1	27.0				0	0	0	0	0	0	867	929	1022	1178	0.0	0.0	4.7	10.7	29.0	2.1
Summary	62.1	39.7	50.9	9999	9999	9999	2471	2141	1682	1024	521	372	3911	4309	4944	6113	1.2	24.3	253.3	35.0	139.6	8.9

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 -4444: year-round risk of frost-freeze
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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: **LINCOLN 11 SW, NE US**

GHCND:USW00094996

Elev: 1371 ft. Lat: 40.695° N Lon: 96.854° 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	0.63	@	@	@	@			
2	0.76	@	@	@	@			
3	2.09	@	@	@	@			
4	2.57	@	@	@	@			
5	4.51	@	@	@	@			
6	4.48	@	@	@	@			
7	3.57	@	@	@	@			
8	3.22	@	@	@	@			
9	3.04	@	@	@	@			
10	2.04	@	@	@	@			
11	1.41	@	@	@	@			
12	0.93	@	@	@	@			
Summary	29.25	9999	9999	9999	9999	9999	9999	9999

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Asheville, North Carolina 28801
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Station: LINCOLN 11 SW, NE US

GHCND:USW00094996
Elev: 1371 ft. Lat: 40.695° N Lon: 96.854° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	26	124	344	670	933	1120	1055	771	411	99	13
45	4	10	67	227	515	783	965	900	621	280	49	2
50	1	2	34	129	366	633	810	745	473	172	20	-7777
55	-7777	-7777	15	62	233	483	655	590	332	95	6	0
60	0	0	5	22	126	337	501	436	208	45	2	0
Growing Degree Units for Corn (Monthly)												
50/86	15	24	97	213	402	619	762	708	487	259	71	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	39	163	507	1177	2110	3230	4285	5056	5467	5566	5579
45	4	14	81	308	823	1606	2571	3471	4092	4372	4421	4423
50	1	3	37	166	532	1165	1975	2720	3193	3365	3385	-7777
55	-7777	-7777	15	77	310	793	1448	2038	2370	2465	2471	2471
60	0	0	5	27	153	490	991	1427	1635	1680	1682	1682
Growing Degree Units for Corn (Monthly)												
50/86	15	39	136	349	751	1370	2132	2840	3327	3586	3657	3670

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

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

Station: ERICSON 6 WNW, NE US

GHCND:USC00252770
 Elev: 2100 ft. Lat: 41.804° N Lon: 98.824° 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	34.7	10.2	22.5	6.8	6.0	6.2	0	0	0	0	0	0	1009	1071	1164	1319	0.0	0.0	5.1	13.2	30.9	6.8
2	38.2	14.3	26.2	6.6	5.8	6.0	-7777	-7777	-7777	0	0	0	805	861	945	1085	0.0	0.0	6.5	9.5	27.0	4.1
3	48.7	22.7	35.7	4.7	3.7	3.9	3	2	-7777	-7777	-7777	0	602	662	754	908	0.0	0.0	15.1	4.2	25.9	0.8
4	60.5	33.2	46.8	4.8	3.0	3.5	39	28	15	4	1	-7777	283	332	410	549	0.0	0.3	23.1	0.5	14.1	0.0
5	70.7	44.8	57.7	3.4	3.1	2.9	155	118	73	26	6	2	69	95	143	251	0.0	0.5	30.3	0.0	2.1	0.0
6	80.3	54.6	67.5	3.9	3.3	3.4	378	322	242	132	54	35	5	8	19	58	0.1	3.4	30.0	0.0	0.0	0.0
7	86.2	60.0	73.1	3.0	2.5	2.4	561	499	407	261	133	94	-7777	-7777	1	10	0.7	9.8	31.0	0.0	0.0	0.0
8	84.3	58.4	71.3	3.0	2.4	2.5	507	446	357	216	103	69	1	2	5	20	0.5	7.2	31.0	0.0	0.0	0.0
9	76.2	47.8	62.0	3.7	2.5	2.5	240	195	137	65	23	13	30	45	77	155	0.0	2.3	29.7	0.0	1.0	0.0
10	63.3	34.5	48.9	4.0	2.6	2.8	45	31	16	4	1	-7777	234	282	360	503	0.0	0.2	26.1	0.3	12.2	0.0
11	47.8	22.7	35.3	6.7	3.8	4.9	4	2	1	0	0	0	596	654	743	892	0.0	0.0	13.5	4.6	25.4	1.0
12	35.7	12.3	24.0	6.8	5.4	5.9	0	0	0	0	0	0	961	1023	1116	1271	0.0	0.0	4.7	11.1	30.7	5.1
Summary	60.6	34.6	47.6	4.8	3.7	3.9	1932	1643	1248	708	321	213	4595	5035	5737	7021	1.3	23.7	246.1	43.4	169.3	17.8

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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: **ERICSON 6 WNW, NE US**

GHCND:USC00252770

Elev: 2100 ft. Lat: 41.804° N Lon: 98.824° 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	0.59	3.6	1.8	0.3	-7777	0.22	0.40	0.83
2	0.70	3.9	1.9	0.3	0.0	0.24	0.70	1.02
3	1.69	6.4	3.6	1.0	0.3	0.70	1.45	2.42
4	2.61	8.5	5.7	1.9	0.5	1.43	2.48	3.33
5	3.79	10.8	7.1	2.5	1.0	2.02	3.79	4.53
6	4.38	9.7	7.0	2.7	1.0	2.67	3.54	5.12
7	3.51	8.3	5.4	2.6	1.2	1.61	2.61	4.98
8	3.25	7.6	5.6	2.3	0.8	1.88	3.07	4.27
9	2.49	6.8	4.2	1.7	0.6	1.67	2.31	3.18
10	2.09	6.7	4.3	1.4	0.5	0.69	1.84	2.80
11	1.30	4.7	2.7	1.0	0.2	0.22	1.16	1.99
12	0.73	3.7	1.9	0.4	0.1	0.25	0.46	0.91
Summary	27.13	80.7	51.2	18.1	6.2	13.60	23.81	35.38

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Station: ERICSON 6 WNW, NE US

GHCND:USC00252770

Elev: 2100 ft. Lat: 41.804° N Lon: 98.824° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	16	81	250	551	824	1026	972	661	309	76	6
45	1	4	35	152	402	673	871	817	513	195	37	1
50	-7777	1	12	82	266	524	716	662	370	104	14	-7777
55	0	-7777	3	39	155	378	561	507	240	45	4	0
60	0	-7777	-7777	15	73	242	407	357	137	16	1	0
Growing Degree Units for Corn (Monthly)												
50/86	16	26	85	185	340	525	673	636	422	225	75	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	23	104	354	905	1729	2755	3727	4388	4697	4773	4779
45	1	5	40	192	594	1267	2138	2955	3468	3663	3700	3701
50	-7777	1	13	95	361	885	1601	2263	2633	2737	2751	-7777
55	0	-7777	3	42	197	575	1136	1643	1883	1928	1932	1932
60	0	-7777	-7777	15	88	330	737	1094	1231	1247	1248	1248
Growing Degree Units for Corn (Monthly)												
50/86	16	42	127	312	652	1177	1850	2486	2908	3133	3208	3222

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: LINCOLN 8 ENE, NE US

GHCND:USW00094995
 Elev: 1188 ft. Lat: 40.848° N Lon: 96.565° 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	13.1	24.0				-7777	0	0	0	0	0	962	1024	1117	1272	0.0	0.0	4.9	13.4	29.9	4.9
2	39.8	17.8	28.8				-7777	-7777	0	0	0	0	734	789	873	1013	0.0	0.0	5.3	7.8	25.3	2.0
3	51.9	27.2	39.6				17	12	6	1	0	0	496	553	640	790	0.0	0.0	16.8	1.5	21.7	0.2
4	64.0	38.1	51.1				67	48	25	7	1	-7777	186	226	294	425	0.0	0.1	26.0	0.0	8.5	0.0
5	73.4	50.2	61.8				239	193	131	57	16	8	28	44	75	156	0.0	0.3	30.9	0.0	0.3	0.0
6	82.7	60.2	71.5				494	434	347	209	97	65	-7777	1	4	15	0.0	3.6	30.0	0.0	0.0	0.0
7	87.5	65.2	76.4				662	600	507	355	211	159	0	0	-7777	3	0.8	10.3	31.0	0.0	0.0	0.0
8	85.7	62.3	74.0				589	527	435	287	155	112	-7777	-7777	1	8	0.3	8.0	31.0	0.0	0.0	0.0
9	78.2	52.2	65.2				318	268	197	103	44	29	12	22	41	97	0.0	2.4	30.0	0.0	0.0	0.0
10	65.6	39.4	52.5				90	68	43	16	5	3	168	208	276	404	0.0	0.4	28.2	0.0	7.7	0.0
11	50.0	26.8	38.4				6	4	2	1	-7777	0	504	562	650	798	0.0	0.0	15.2	2.0	22.4	0.0
12	37.0	15.9	26.5				0	0	0	0	0	0	884	947	1040	1195	0.0	0.0	4.4	10.2	29.2	2.6
Summary	62.6	39.0	50.8	9999	9999	9999	2482	2154	1693	1036	529	376	3974	4376	5011	6176	1.1	25.1	253.7	34.9	145.0	9.7

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Station: **LINCOLN 8 ENE, NE US**

GHCND:USW00094995

Elev: 1188 ft. Lat: 40.848° N Lon: 96.565° 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	0.74	@	@	@	@			
2	1.00	@	@	@	@			
3	2.18	@	@	@	@			
4	2.89	@	@	@	@			
5	4.90	@	@	@	@			
6	4.50	@	@	@	@			
7	4.40	@	@	@	@			
8	3.74	@	@	@	@			
9	2.98	@	@	@	@			
10	2.18	@	@	@	@			
11	1.67	@	@	@	@			
12	0.98	@	@	@	@			
Summary	32.16	9999	9999	9999	9999	9999	9999	9999

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-4444: year-round risk of frost-freeze

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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: LINCOLN 8 ENE, NE US

GHCND:USW00094995

Elev: 1188 ft. Lat: 40.848° N Lon: 96.565° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	26	126	352	676	943	1127	1054	756	399	90	10
45	3	10	69	235	522	793	971	899	606	270	44	1
50	1	3	37	137	372	643	816	744	458	165	18	-7777
55	-7777	-7777	17	67	239	494	662	589	318	90	6	0
60	0	0	6	25	131	347	507	435	197	43	2	0
Growing Degree Units for Corn (Monthly)												
50/86	15	24	102	228	412	628	766	707	485	264	73	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	37	163	515	1191	2134	3261	4315	5071	5470	5560	5570
45	3	13	82	317	839	1632	2603	3502	4108	4378	4422	4423
50	1	4	41	178	550	1193	2009	2753	3211	3376	3394	-7777
55	-7777	-7777	17	84	323	817	1479	2068	2386	2476	2482	2482
60	0	0	6	31	162	509	1016	1451	1648	1691	1693	1693
Growing Degree Units for Corn (Monthly)												
50/86	15	39	141	369	781	1409	2175	2882	3367	3631	3704	3717

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: OMAHA EPPLEY AIRFIELD, NE US

GHCND:USW00014942
 Elev: 981 ft. Lat: 41.310° N Lon: 95.899° 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	13.6	23.5	6.6	5.7	5.9	0	0	0	0	0	0	976	1038	1131	1286	0.0	0.0	3.3	13.3	30.1	4.8
2	38.1	18.1	28.1	6.5	5.6	5.8	1	-7777	-7777	-7777	0	0	754	809	893	1033	0.0	0.0	5.6	9.1	25.4	2.5
3	50.9	28.1	39.5	5.2	3.5	4.0	14	9	5	1	-7777	-7777	494	552	640	791	0.0	0.0	16.2	2.6	20.4	0.4
4	63.7	39.8	51.7	4.4	3.2	3.6	81	61	39	15	4	2	179	219	286	413	0.0	0.4	25.8	0.0	6.5	0.0
5	73.8	50.9	62.3	3.4	3.2	3.0	253	205	143	66	22	13	25	40	70	148	0.0	1.1	30.9	0.0	0.2	0.0
6	83.2	61.0	72.1	2.9	2.8	2.6	513	454	367	230	118	83	-7777	1	4	17	0.1	5.3	30.0	0.0	0.0	0.0
7	87.3	66.2	76.7	3.2	2.4	2.6	674	612	519	365	220	167	0	0	-7777	1	1.0	10.8	31.0	0.0	0.0	0.0
8	85.1	64.0	74.6	3.7	3.0	3.2	606	544	452	303	170	126	-7777	-7777	1	7	0.6	7.6	31.0	0.0	0.0	0.0
9	77.6	53.9	65.7	3.5	2.6	2.7	338	286	215	117	51	34	16	24	42	95	0.1	2.8	29.8	0.0	0.3	0.0
10	64.7	41.6	53.2	3.5	2.8	2.7	92	68	42	15	4	2	150	188	254	382	0.0	0.1	27.9	0.1	4.9	0.0
11	48.9	28.8	38.9	5.7	4.2	4.7	9	6	3	1	-7777	0	494	550	637	785	0.0	0.0	14.2	2.8	19.1	0.1
12	35.3	16.7	26.0	6.4	5.8	5.9	-7777	-7777	-7777	0	0	0	899	961	1054	1209	0.0	0.0	3.3	11.6	29.2	2.9
Summary	61.8	40.2	51.0	4.6	3.7	3.9	2581	2245	1785	1113	589	427	3987	4382	5012	6167	1.8	28.1	249.0	39.5	136.1	10.7

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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: **OMAHA EPPLEY AIRFIELD, NE US**

GHCND:USW00014942
Elev: 981 ft. Lat: 41.310° N Lon: 95.899° 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	0.72	6.0	2.3	0.2	-7777	0.35	0.59	1.10
2	0.85	6.5	2.4	0.3	-7777	0.34	0.73	1.28
3	1.99	8.2	4.4	1.3	0.4	0.88	1.62	2.86
4	2.96	10.2	5.9	2.1	0.6	1.80	2.93	3.71
5	4.76	12.3	7.8	3.3	1.2	2.55	4.55	6.37
6	4.18	11.0	7.2	2.6	1.0	2.14	3.52	5.57
7	3.83	10.3	6.6	2.5	1.0	2.46	3.06	5.04
8	3.82	8.3	5.3	2.2	1.2	1.50	2.87	4.83
9	2.68	8.0	5.0	1.8	0.8	1.51	2.30	2.91
10	2.15	7.1	4.4	1.4	0.5	1.19	1.68	3.18
11	1.64	6.7	3.4	1.0	0.4	0.66	1.56	2.49
12	1.04	6.6	2.8	0.4	0.1	0.54	0.82	1.17
Summary	30.62	101.2	57.5	19.1	7.2	15.92	26.23	40.51

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

Station: **OMAHA EPPLEY AIRFIELD, NE US**

GHCND:USW00014942
 Elev: 981 ft. Lat: 41.310° N Lon: 95.899° 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	4.6	1.8	0.7	0.2	-7777	13.3	8.4	5.5	1.2	2.0	5.5	7.5
2	6.1	4.9	2.2	0.5	0.3	0.0	11.3	6.6	3.0	0.7	3.0	6.4	9.0
3	4.2	2.5	1.2	0.6	0.2	0.0	3.7	2.0	1.1	0.2	0.6	3.6	7.3
4	1.0	0.8	0.4	-7777	-7777	0.0	0.5	0.2	0.1	0.0	0.0	0.0	1.1
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	0.2	0.1	-7777	0.0	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
11	2.5	2.2	1.0	0.2	-7777	0.0	2.4	0.7	0.3	0.0	0.1	1.7	4.1
12	6.2	4.7	2.1	0.6	0.2	0.0	10.1	5.9	2.8	1.1	2.8	5.0	7.0
Summary	26.4	19.9	8.8	2.6	0.9	0.0	41.6	23.9	12.8	3.2	8.5	22.2	36.0

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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: OMAHA EPPLEY AIRFIELD, NE US

GHCND:USW00014942
Elev: 981 ft. Lat: 41.310° N Lon: 95.899° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	23	128	368	693	963	1139	1071	772	418	110	9
45	1	8	70	247	538	813	984	916	624	286	57	2
50	-7777	3	33	149	388	663	829	761	477	175	25	-7777
55	0	1	14	81	253	513	674	606	338	92	9	-7777
60	0	-7777	5	39	143	367	519	452	215	42	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	23	97	227	421	640	776	723	490	252	72	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	30	158	526	1219	2182	3321	4392	5164	5582	5692	5701
45	1	9	79	326	864	1677	2661	3577	4201	4487	4544	4546
50	-7777	3	36	185	573	1236	2065	2826	3303	3478	3503	-7777
55	0	1	15	96	349	862	1536	2142	2480	2572	2581	-7777
60	0	-7777	5	44	187	554	1073	1525	1740	1782	1785	-7777
Growing Degree Units for Corn (Monthly)												
50/86	10	33	130	357	778	1418	2194	2917	3407	3659	3731	3740

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: **BIG SPRINGS, NE US**

GHCND:USC00250865
Elev: 3678 ft. Lat: 41.047° N Lon: 102.147° 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	40.8	13.9	27.3	5.9	4.1	4.7	0	0	0	0	0	0	857	919	1012	1167	0.0	0.0	8.0	7.7	30.7	3.4
2	45.2	16.9	31.0	6.5	4.6	5.2	-7777	-7777	0	0	0	0	670	727	810	951	0.0	0.0	11.3	5.3	27.3	2.4
3	54.3	24.9	39.6	4.3	3.4	3.6	6	3	1	-7777	0	0	483	542	633	787	0.0	0.0	19.5	2.2	25.0	0.5
4	63.6	34.0	48.8	4.6	2.7	3.2	42	28	13	3	-7777	-7777	228	274	349	489	0.0	0.3	25.5	0.3	11.5	0.0
5	72.9	45.1	59.0	4.2	2.4	3.0	180	140	90	33	8	4	56	78	121	219	0.0	1.3	30.4	0.0	1.6	0.0
6	82.8	55.2	69.0	4.1	2.4	3.0	424	367	285	163	72	47	4	7	15	43	0.7	7.0	30.0	0.0	0.0	0.0
7	89.6	61.0	75.3	3.5	2.2	2.6	629	567	475	324	183	135	-7777	-7777	1	4	2.6	15.1	31.0	0.0	0.0	0.0
8	87.5	59.1	73.3	3.2	2.0	2.4	568	506	414	267	135	92	-7777	1	2	9	1.1	12.4	31.0	0.0	0.0	0.0
9	79.0	48.0	63.5	3.4	2.5	2.6	280	231	165	79	27	15	25	36	60	124	0.1	5.0	29.5	0.0	0.6	0.0
10	65.7	34.6	50.1	3.9	2.8	2.8	52	35	17	3	-7777	-7777	203	247	322	463	0.0	0.4	27.2	0.4	11.1	0.0
11	52.4	23.4	37.9	5.7	3.5	4.3	3	1	-7777	-7777	0	0	516	574	663	813	0.0	0.0	17.9	2.1	25.7	0.5
12	41.0	13.5	27.3	6.3	4.6	5.3	0	0	0	0	0	0	860	922	1015	1170	0.0	0.0	8.2	7.1	30.9	3.5
Summary	64.6	35.8	50.2	4.6	3.1	3.6	2184	1878	1460	872	425	293	3902	4327	5003	6239	4.5	41.5	269.5	25.1	164.4	10.3

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1981-2010**

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

Station: **BIG SPRINGS, NE US**

GHCND:USC00250865
Elev: 3678 ft. Lat: 41.047° N Lon: 102.147° 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	0.33	2.6	1.1	0.1	0.0	0.12	0.25	0.48
2	0.37	2.9	1.4	0.1	0.0	0.15	0.27	0.54
3	1.04	4.4	2.6	0.5	0.2	0.40	0.84	1.32
4	2.14	5.7	3.8	1.5	0.5	0.99	2.06	3.00
5	2.57	8.5	5.4	1.8	0.5	1.50	2.38	3.28
6	2.52	7.9	5.7	1.9	0.5	1.74	2.53	3.31
7	2.36	7.0	4.9	1.5	0.6	1.49	2.29	2.82
8	1.97	6.6	4.4	1.2	0.4	1.10	1.61	2.39
9	1.53	5.0	3.3	0.8	0.3	0.86	1.33	2.17
10	1.18	4.5	2.9	0.8	0.1	0.51	0.97	1.67
11	0.54	2.5	1.7	0.3	0.0	0.17	0.35	0.77
12	0.48	2.7	1.2	0.2	-7777	0.08	0.33	0.83
Summary	17.03	60.3	38.4	10.7	3.1	9.11	15.21	22.58

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Station: **BIG SPRINGS, NE US**

GHCND:USC00250865
Elev: 3678 ft. Lat: 41.047° N Lon: 102.147° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	30	122	292	589	870	1094	1032	705	340	96	13
45	2	8	57	180	439	720	939	877	558	217	45	3
50	-7777	1	21	96	299	571	784	722	415	119	15	-7777
55	0	-7777	6	42	180	424	629	568	280	52	3	0
60	0	0	1	13	90	285	475	414	165	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	31	51	127	220	365	547	702	663	445	256	105	30

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	44	166	458	1047	1917	3011	4043	4748	5088	5184	5197
45	2	10	67	247	686	1406	2345	3222	3780	3997	4042	4045
50	-7777	1	22	118	417	988	1772	2494	2909	3028	3043	-7777
55	0	-7777	6	48	228	652	1281	1849	2129	2181	2184	2184
60	0	0	1	14	104	389	864	1278	1443	1460	-7777	1460
Growing Degree Units for Corn (Monthly)												
50/86	31	82	209	429	794	1341	2043	2706	3151	3407	3512	3542

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: **NORFOLK KARL STEFAN MEMORIAL AIRPORT, NE US**

GHCND:USW00014941
Elev: 1552 ft. Lat: 41.986° N Lon: 97.435° 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	33.0	12.1	22.6	6.9	5.7	6.2	0	0	0	0	0	0	1006	1068	1161	1316	0.0	0.0	3.5	13.8	30.3	6.1
2	37.0	16.5	26.8	6.9	5.7	6.0	-7777	-7777	-7777	-7777	0	0	791	847	931	1071	0.0	0.0	5.5	10.2	26.3	3.1
3	48.6	26.2	37.4	5.5	3.6	4.2	8	5	2	-7777	-7777	-7777	554	612	702	856	0.0	0.0	14.0	3.4	22.3	0.5
4	61.9	37.3	49.6	4.7	2.9	3.6	61	46	29	12	3	2	223	268	341	474	0.0	0.6	24.5	0.2	9.1	0.0
5	72.3	48.6	60.5	3.5	3.2	3.2	209	167	112	49	16	8	40	60	98	190	0.0	1.1	30.6	0.0	0.6	0.0
6	81.8	58.6	70.2	3.3	2.6	2.8	457	399	314	186	87	59	1	3	8	30	0.2	4.1	30.0	0.0	0.0	0.0
7	86.4	63.6	75.0	3.3	2.4	2.7	620	558	465	314	176	129	0	-7777	-7777	4	0.6	9.5	31.0	0.0	0.0	0.0
8	84.2	61.5	72.8	3.4	2.7	2.9	553	492	400	255	131	93	-7777	1	2	12	0.3	6.2	31.0	0.0	0.0	0.0
9	76.5	51.1	63.8	3.6	2.5	2.8	289	240	175	90	38	25	25	36	61	126	0.0	2.5	29.7	0.0	0.6	0.0
10	63.5	38.5	51.0	3.7	2.9	2.9	67	48	27	9	2	1	191	234	306	443	0.0	0.3	26.9	0.2	7.5	0.0
11	47.1	25.6	36.4	6.5	4.1	5.0	5	3	1	-7777	0	0	565	622	711	860	0.0	0.0	12.4	4.2	22.6	0.5
12	34.1	14.5	24.3	6.8	5.9	6.2	0	0	0	0	0	0	951	1013	1106	1261	0.0	0.0	3.6	12.7	29.9	4.0
Summary	60.5	37.8	49.2	4.8	3.7	4.0	2269	1958	1525	915	453	317	4347	4764	5427	6643	1.1	24.3	242.7	44.7	149.2	14.2

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **NORFOLK KARL STEFAN MEMORIAL AIRPORT, NE US**

GHCND:USW00014941

Elev: 1552 ft. Lat: 41.986° N Lon: 97.435° 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	0.59	5.9	1.6	0.2	-7777	0.28	0.55	0.78
2	0.76	5.8	2.2	0.3	-7777	0.35	0.60	1.12
3	1.77	8.2	3.9	1.0	0.3	0.70	1.33	2.56
4	2.65	9.3	5.4	1.7	0.6	1.47	2.28	3.71
5	3.93	11.3	7.3	2.5	1.0	2.41	3.35	5.20
6	4.26	10.5	6.7	2.7	1.2	2.60	4.01	5.48
7	3.32	9.1	5.6	2.1	1.0	1.61	3.13	4.16
8	3.25	8.7	5.4	2.0	0.9	1.50	2.84	4.48
9	2.69	8.1	5.1	1.8	0.7	1.53	2.77	3.58
10	2.07	7.4	4.2	1.3	0.4	0.95	1.56	3.08
11	1.37	5.8	2.7	0.8	0.3	0.46	1.11	2.10
12	0.75	6.0	2.0	0.3	-7777	0.34	0.50	0.96
Summary	27.41	96.1	52.1	16.7	6.4	14.20	24.03	37.21

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Station: **NORFOLK KARL STEFAN MEMORIAL AIRPORT, NE US**

GHCND:USW00014941
 Elev: 1552 ft. Lat: 41.986° N Lon: 97.435° 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	6.4	5.3	1.8	0.7	0.3	-7777	14.6	8.7	4.9	1.0	3.1	6.6	9.2
2	5.5	4.4	1.8	0.4	0.2	-7777	11.9	6.5	4.0	0.6	2.4	4.2	7.6
3	5.1	3.6	1.5	0.5	0.2	0.0	5.1	2.9	1.7	0.3	0.7	3.1	7.6
4	2.6	1.4	0.7	0.3	0.1	0.0	1.0	0.4	0.2	0.0	0.0	0.4	3.6
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	-7777	0.1	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.7	0.2	0.1	-7777	0.0	0.3	-7777	0.0	0.0	0.0	0.0	0.5
11	4.1	2.8	1.5	0.3	0.1	-7777	3.7	1.5	0.8	0.2	1.5	2.7	5.0
12	6.0	4.6	1.9	0.4	0.2	-7777	13.2	6.2	3.2	1.2	2.6	4.6	7.7
Summary	30.5	22.9	9.4	2.7	1.1	0.0	49.8	26.2	14.8	3.3	10.3	21.6	41.2

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

Station: **NORFOLK KARL STEFAN MEMORIAL AIRPORT, NE US**

GHCND:USW00014941
Elev: 1552 ft. Lat: 41.986° N Lon: 97.435° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	18	100	313	634	906	1085	1018	714	361	84	7
45	2	6	51	201	480	756	930	863	566	237	42	1
50	-7777	1	22	117	335	606	775	708	422	137	17	-7777
55	0	-7777	8	61	209	457	620	553	289	67	5	0
60	0	-7777	2	29	112	314	465	400	175	27	1	0
Growing Degree Units for Corn (Monthly)												
50/86	12	20	80	201	382	591	730	679	449	230	64	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	26	126	439	1073	1979	3064	4082	4796	5157	5241	5248
45	2	8	59	260	740	1496	2426	3289	3855	4092	4134	4135
50	-7777	1	23	140	475	1081	1856	2564	2986	3123	3140	-7777
55	0	-7777	8	69	278	735	1355	1908	2197	2264	2269	2269
60	0	-7777	2	31	143	457	922	1322	1497	1524	1525	1525
Growing Degree Units for Corn (Monthly)												
50/86	12	32	112	313	695	1286	2016	2695	3144	3374	3438	3447

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

Station: **HARTINGTON, NE US**

GHCND:USC00253630

Elev: 1371 ft. Lat: 42.617° N Lon: 97.261° 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	30.8	10.3	20.6	6.8	6.2	6.4	-7777	0	0	0	0	0	1068	1130	1223	1378	0.0	0.0	2.5	15.7	30.5	7.6
2	35.6	14.0	24.8	7.2	6.2	6.5	-7777	-7777	-7777	0	0	0	846	901	985	1125	0.0	0.0	4.8	11.2	26.5	4.5
3	46.6	23.8	35.2	5.7	3.9	4.4	4	2	1	-7777	-7777	0	617	678	769	924	0.0	0.0	12.3	4.4	24.5	0.7
4	60.4	35.5	47.9	4.9	3.1	3.8	49	36	21	7	2	1	260	307	383	519	0.0	0.3	23.4	0.4	10.8	0.0
5	70.9	48.0	59.5	3.5	3.3	3.2	189	148	98	40	11	5	51	73	115	212	0.0	0.5	30.6	0.0	0.7	0.0
6	80.0	58.2	69.1	3.1	2.5	2.6	425	367	284	160	69	45	2	5	11	37	0.1	2.6	30.0	0.0	0.0	0.0
7	84.8	63.0	73.9	3.1	2.4	2.6	586	524	431	281	148	106	-7777	-7777	-7777	5	0.3	6.7	31.0	0.0	0.0	0.0
8	82.9	60.4	71.7	3.2	2.7	2.8	516	455	364	221	104	70	-7777	1	3	15	0.1	4.9	31.0	0.0	0.0	0.0
9	75.5	50.4	63.0	3.7	2.8	2.9	266	220	158	78	28	16	27	41	69	139	0.0	1.5	29.8	0.0	0.6	0.0
10	62.9	38.0	50.5	3.7	3.1	2.8	58	41	22	6	1	-7777	199	244	318	457	0.0	0.2	26.6	0.1	7.8	0.0
11	45.7	24.1	34.9	6.6	4.9	5.5	4	2	1	-7777	0	0	607	665	754	903	0.0	0.0	11.6	5.0	23.2	0.7
12	32.1	12.8	22.5	7.1	6.2	6.5	0	0	0	0	0	0	1009	1071	1164	1319	0.0	0.0	2.5	14.4	30.2	5.1
Summary	59.0	36.5	47.8	4.9	3.9	4.2	2097	1795	1380	793	363	243	4686	5116	5794	7033	0.5	16.7	236.1	51.2	154.8	18.6

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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: **HARTINGTON, NE US**

GHCND:USC00253630

Elev: 1371 ft. Lat: 42.617° N Lon: 97.261° 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	0.59	3.6	1.9	0.2	-7777	0.28	0.58	0.74
2	0.72	3.5	2.0	0.3	0.0	0.28	0.65	1.04
3	2.00	5.3	3.7	1.4	0.3	0.85	1.88	2.23
4	3.03	8.9	5.9	2.1	0.6	1.61	2.79	4.15
5	3.79	9.7	7.2	2.7	0.9	2.33	3.37	5.57
6	4.37	8.9	6.4	3.0	1.4	2.21	4.54	5.59
7	3.22	7.6	4.9	2.0	0.8	1.65	2.27	4.59
8	2.86	7.0	4.7	1.9	0.7	1.48	2.49	4.06
9	3.00	6.8	4.6	2.2	0.9	1.43	2.94	4.06
10	2.40	6.3	3.8	1.5	0.7	0.88	1.58	3.88
11	1.39	4.5	2.6	0.8	0.4	0.37	1.00	1.81
12	0.78	3.4	1.8	0.4	0.1	0.38	0.56	1.03
Summary	28.15	75.5	49.5	18.5	6.8	13.75	24.65	38.75

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Station: **HARTINGTON, NE US**

GHCND:USC00253630

Elev: 1371 ft. Lat: 42.617° N Lon: 97.261° 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	6.4	3.9	2.9	0.7	0.3	0.1	13.8	9.3	5.7	1.7	2.6	4.5	12.4
2	6.5	3.1	2.3	0.6	0.2	0.1	10.4	7.3	5.0	2.2	2.7	5.0	8.0
3	6.4	2.5	1.9	0.7	0.3	0.1	6.0	3.4	1.7	0.3	3.0	5.0	7.3
4	3.1	0.9	0.8	0.4	0.3	-7777	0.7	0.4	0.3	0.0	0.0	0.8	7.0
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	0.6	0.3	0.3	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.2
11	4.9	2.3	1.8	0.7	0.1	-7777	2.8	1.7	0.9	0.0	1.0	3.3	10.0
12	5.4	3.7	2.6	0.7	0.2	-7777	10.7	6.2	2.3	0.3	2.0	5.9	7.3
Summary	33.3	16.7	12.6	3.9	1.4	0.3	44.7	28.4	15.9	4.5	11.3	24.5	52.2

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www.ncdc.noaa.gov

Station: **HARTINGTON, NE US**

GHCND:USC00253630
Elev: 1371 ft. Lat: 42.617° N Lon: 97.261° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	14	78	277	603	873	1051	981	689	347	74	4
45	1	5	37	173	452	723	896	826	540	226	38	1
50	-7777	1	14	97	309	573	741	671	397	126	15	-7777
55	-7777	-7777	4	49	189	425	586	516	266	58	4	0
60	0	-7777	1	21	98	284	431	364	158	22	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	16	66	184	360	566	710	653	432	221	56	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	20	98	375	978	1851	2902	3883	4572	4919	4993	4997
45	1	6	43	216	668	1391	2287	3113	3653	3879	3917	3918
50	-7777	1	15	112	421	994	1735	2406	2803	2929	2944	-7777
55	-7777	-7777	4	53	242	667	1253	1769	2035	2093	2097	2097
60	0	-7777	1	22	120	404	835	1199	1357	1379	1380	1380
Growing Degree Units for Corn (Monthly)												
50/86	8	24	90	274	634	1200	1910	2563	2995	3216	3272	3278

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: **HICKMAN, NE US**

GHCND:USC00253825

Elev: 1299 ft. Lat: 40.622° N Lon: 96.628° 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	0.68	3.7	2.0	0.2	-7777	0.34	0.63	0.99
2	0.87	4.6	2.5	0.3	0.1	0.47	0.69	1.09
3	2.10	7.1	4.7	1.6	0.4	1.12	1.94	3.01
4	2.88	9.4	5.9	1.9	0.6	1.87	2.73	3.66
5	5.16	11.9	8.5	3.4	1.5	2.96	4.08	7.19
6	4.82	9.5	6.8	3.0	1.6	3.18	4.35	6.08
7	4.18	7.9	5.9	2.5	1.0	2.52	3.57	4.56
8	3.67	8.5	5.7	2.4	1.1	2.14	3.03	5.17
9	3.08	6.6	4.6	2.0	0.9	2.21	3.08	3.98
10	2.31	6.4	4.5	1.5	0.5	0.99	1.63	2.78
11	1.67	5.4	3.2	1.2	0.3	0.72	1.52	2.60
12	1.04	4.7	2.4	0.6	0.2	0.35	0.76	1.53
Summary	32.46	85.7	56.7	20.6	8.2	18.87	28.01	42.64

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **HICKMAN, NE US**

GHCND:USC00253825
 Elev: 1299 ft. Lat: 40.622° N Lon: 96.628° 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	6.0	2.8	2.0	0.8	0.3	0.0	6.5	3.8	2.1	0.2	1.4	4.6	7.7
2	5.9	2.8	2.1	1.0	0.3	0.0	7.3	4.6	2.5	1.0	3.0	5.4	8.5
3	5.2	1.9	1.6	0.7	0.3	0.1	1.8	1.0	0.6	0.1	1.0	3.2	7.0
4	1.2	0.4	0.3	0.1	0.1	0.0	0.4	0.2	0.2	0.1	0.0	0.0	0.5
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.2	0.2	0.1	0.1	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	1.8	1.2	1.0	0.1	-7777	0.0	1.1	0.1	-7777	0.0	0.0	1.0	3.0
12	5.0	2.9	1.9	0.6	0.3	0.0	6.2	2.8	1.6	0.7	1.5	5.3	8.7
Summary	26.0	12.2	9.1	3.4	1.4	0.1	23.6	12.7	7.1	2.2	6.9	19.5	35.4

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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: CHADRON 3 NE, NE US

GHCND:USC00251578
 Elev: 3465 ft. Lat: 42.837° N Lon: 102.953° 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	13.1	25.5				0	0	0	0	0	0	916	978	1071	1226	0.0	0.0	5.3	9.0	29.8	5.8
2	42.0	15.1	28.6				-7777	0	0	0	0	0	740	796	880	1020	0.0	0.0	7.5	4.7	27.3	3.2
3	51.6	24.3	37.9				5	3	1	-7777	0	0	534	593	684	839	0.0	0.0	17.4	2.3	24.7	0.4
4	61.3	33.3	47.3				29	18	8	1	-7777	0	261	309	389	532	0.0	0.0	24.8	0.3	12.5	0.0
5	70.3	43.0	56.7				123	89	51	18	6	4	71	100	155	277	0.0	0.7	30.2	0.0	1.8	0.0
6	81.6	53.2	67.4				378	322	244	134	58	38	6	11	22	62	0.3	5.5	30.0	0.0	0.0	0.0
7	89.6	59.7	74.7				608	547	454	304	167	121	-7777	-7777	-7777	6	1.5	14.7	31.0	0.0	0.0	0.0
8	88.1	57.4	72.8				550	488	398	256	134	97	-7777	1	3	16	0.9	13.9	31.0	0.0	0.0	0.0
9	77.9	47.0	62.5				248	201	140	67	26	16	24	38	66	144	0.2	4.3	29.8	0.0	0.6	0.0
10	63.4	33.0	48.2				38	25	11	1	-7777	-7777	249	297	377	522	0.0	0.2	27.3	0.0	13.8	0.0
11	48.1	21.4	34.8				1	-7777	0	0	0	0	608	668	757	907	0.0	0.0	13.1	3.5	26.6	0.6
12	37.6	13.4	25.5				0	0	0	0	0	0	914	976	1069	1224	0.0	0.0	5.6	10.4	30.4	4.8
Summary	62.4	34.5	48.5	9999	9999	9999	1980	1693	1307	781	391	276	4323	4767	5473	6775	2.9	39.3	253.0	30.2	167.5	14.8

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1981-2010**

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

Station: **CHADRON 3 NE, NE US**

GHCND:USC00251578
Elev: 3465 ft. Lat: 42.837° N Lon: 102.953° 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	0.32	@	@	@	@			
2	0.59	@	@	@	@			
3	1.20	@	@	@	@			
4	1.97	@	@	@	@			
5	2.82	@	@	@	@			
6	3.45	@	@	@	@			
7	2.41	@	@	@	@			
8	1.57	@	@	@	@			
9	1.94	@	@	@	@			
10	1.42	@	@	@	@			
11	0.67	@	@	@	@			
12	0.45	@	@	@	@			
Summary	18.81	9999	9999	9999	9999	9999	9999	9999

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Station: **CHADRON 3 NE, NE US**

GHCND:USC00251578
Elev: 3465 ft. Lat: 42.837° N Lon: 102.953° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	10	97	255	518	822	1073	1014	674	283	54	9
45	1	1	47	153	369	672	918	859	526	171	24	1
50	0	-7777	19	79	233	523	764	705	381	91	7	-7777
55	0	-7777	5	29	123	378	608	550	248	38	1	0
60	0	0	1	8	51	244	454	398	140	11	0	0
Growing Degree Units for Corn (Monthly)												
50/86	15	22	97	191	327	518	693	646	431	221	66	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	19	116	371	889	1711	2784	3798	4472	4755	4809	4818
45	1	2	49	202	571	1243	2161	3020	3546	3717	3741	3742
50	0	-7777	19	98	331	854	1618	2323	2704	2795	2802	-7777
55	0	-7777	5	34	157	535	1143	1693	1941	1979	1980	1980
60	0	0	1	9	60	304	758	1156	1296	1307	1307	1307
Growing Degree Units for Corn (Monthly)												
50/86	15	37	134	325	652	1170	1863	2509	2940	3161	3227	3243

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: **NORTH PLATTE EXPERIMENTAL FRM, NE US**

GHCND:USC00256075
 Elev: 3025 ft. Lat: 41.057° N Lon: 100.749° 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	13.8	25.3	6.1	4.8	5.3	-7777	0	0	0	0	0	919	981	1074	1229	0.0	0.0	5.4	10.6	30.5	4.0
2	41.2	16.6	28.9	7.0	5.2	5.8	-7777	-7777	0	0	0	0	731	787	871	1011	0.0	0.0	8.5	7.1	27.1	3.1
3	50.7	24.8	37.7	4.4	3.6	3.7	4	2	-7777	-7777	-7777	0	539	598	690	845	0.0	0.0	16.7	3.7	24.3	0.5
4	60.9	34.0	47.5	4.4	2.8	3.2	39	28	15	4	1	-7777	266	314	392	531	0.0	0.2	23.5	0.4	12.7	0.0
5	70.5	45.0	57.8	3.9	2.5	2.9	156	119	74	25	5	2	70	96	144	250	0.0	0.7	29.9	0.0	1.4	0.0
6	80.5	55.2	67.9	4.0	2.7	3.1	391	335	254	138	57	37	6	9	19	53	0.3	4.7	29.9	0.0	0.0	0.0
7	87.4	61.0	74.2	3.2	2.1	2.5	595	533	441	291	158	114	-7777	-7777	1	6	1.6	12.1	31.0	0.0	0.0	0.0
8	85.7	59.3	72.5	3.7	2.3	2.8	543	482	391	247	123	85	1	1	4	14	0.7	9.9	31.0	0.0	0.0	0.0
9	77.0	48.9	63.0	3.5	2.5	2.8	270	223	160	78	28	16	31	45	72	140	0.1	3.8	29.5	0.0	0.8	0.0
10	63.6	36.4	50.0	4.1	2.4	3.0	57	39	20	5	-7777	-7777	212	256	330	470	0.0	0.2	26.1	0.4	8.5	0.0
11	48.8	24.4	36.6	5.9	3.6	4.6	3	2	-7777	-7777	0	0	555	614	702	852	0.0	0.0	14.4	4.1	23.5	0.5
12	37.5	14.7	26.1	6.5	5.1	5.7	-7777	0	0	0	0	0	896	958	1051	1206	0.0	0.0	6.0	10.2	30.7	3.3
Summary	61.7	36.2	49.0	4.7	3.3	3.8	2058	1763	1355	788	372	254	4226	4659	5350	6607	2.7	31.6	251.9	36.5	159.5	11.4

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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: **NORTH PLATTE EXPERIMENTAL FRM, NE US**

GHCND:USC00256075

Elev: 3025 ft. Lat: 41.057° N Lon: 100.749° 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	0.33	3.4	0.9	-7777	0.0	0.16	0.31	0.45
2	0.50	4.2	1.5	0.2	0.0	0.13	0.34	0.72
3	1.12	6.1	2.5	0.6	0.1	0.38	0.93	1.64
4	2.18	8.2	5.0	1.3	0.3	1.26	1.82	2.75
5	3.35	10.8	6.6	1.9	0.8	1.91	3.28	4.64
6	3.69	10.5	6.5	2.5	1.0	2.93	3.75	4.59
7	2.86	8.6	5.5	2.0	0.5	1.77	2.52	3.83
8	2.39	7.3	4.4	1.8	0.6	1.14	2.25	3.41
9	1.58	6.6	3.6	0.9	0.3	0.80	1.22	1.99
10	1.70	6.7	3.5	1.1	0.3	0.90	1.26	2.41
11	0.69	4.4	1.9	0.4	-7777	0.15	0.58	1.06
12	0.41	3.4	1.0	0.1	-7777	0.04	0.21	0.55
Summary	20.80	80.2	42.9	12.8	3.9	11.57	18.47	28.04

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Station: **NORTH PLATTE EXPERIMENTAL FRM, NE US**

GHCND:USC00256075
 Elev: 3025 ft. Lat: 41.057° N Lon: 100.749° 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	3.1	1.8	0.5	0.2	-7777	@	@	@	@	0.6	4.7	7.2
2	5.2	3.3	2.0	0.6	0.2	0.0	@	@	@	@	1.5	4.1	8.2
3	4.9	3.5	2.2	0.5	0.1	0.0	@	@	@	@	1.5	4.4	8.0
4	4.5	1.6	1.4	0.6	0.3	0.0	@	@	@	@	0.5	2.7	7.0
5	0.1	0.1	0.1	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	0.3	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.3	0.7	0.6	0.4	0.1	0.1	@	@	@	@	0.0	0.0	1.5
11	4.0	2.5	1.7	0.6	0.5	0.1	@	@	@	@	1.5	2.2	5.5
12	4.6	2.9	1.7	0.6	0.2	0.0	@	@	@	@	1.2	3.0	7.4
Summary	30.2	17.8	11.6	3.8	1.6	0.2	9999	9999	9999	9999	6.8	21.1	44.8

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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: **NORTH PLATTE EXPERIMENTAL FRM, NE US**

GHCND:USC00256075
Elev: 3025 ft. Lat: 41.057° N Lon: 100.749° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	26	104	263	551	835	1060	1007	690	339	89	11
45	2	8	47	161	404	686	905	852	544	220	43	2
50	-7777	1	16	87	267	537	750	697	402	124	15	-7777
55	-7777	-7777	4	39	156	391	595	543	270	57	3	-7777
60	0	0	-7777	15	74	254	441	391	160	20	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	36	99	189	332	524	690	653	430	230	79	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	37	141	404	955	1790	2850	3857	4547	4886	4975	4986
45	2	10	57	218	622	1308	2213	3065	3609	3829	3872	3874
50	-7777	1	17	104	371	908	1658	2355	2757	2881	2896	-7777
55	-7777	-7777	4	43	199	590	1185	1728	1998	2055	2058	-7777
60	0	0	-7777	15	89	343	784	1175	1335	1355	-7777	1355
Growing Degree Units for Corn (Monthly)												
50/86	19	55	154	343	675	1199	1889	2542	2972	3202	3281	3300

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

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

Station: **PRAGUE, NE US**

GHCND:USC00256922

Elev: 1345 ft. Lat: 41.306° N Lon: 96.806° 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	0.65	2.8	1.9	0.3	0.0	0.31	0.56	1.02
2	0.96	3.7	2.4	0.6	0.2	0.55	0.85	1.27
3	1.87	5.8	4.2	1.1	0.2	0.80	1.65	2.76
4	3.29	8.4	6.9	2.3	0.9	2.33	2.95	4.27
5	4.87	10.4	8.4	3.4	1.2	3.61	4.92	6.07
6	4.91	8.7	6.9	3.1	1.6	2.48	4.05	7.35
7	3.50	6.4	5.4	2.2	0.9	2.25	2.98	4.77
8	4.12	8.2	6.7	2.8	1.2	1.87	3.63	4.79
9	3.18	5.4	4.9	1.6	1.0	1.94	2.83	3.81
10	2.20	4.9	4.3	1.4	0.4	0.79	1.68	3.13
11	1.60	2.9	2.3	1.1	0.4	0.73	1.22	2.40
12	0.76	3.5	2.0	0.4	0.1	0.35	0.58	0.85
Summary	31.91	71.1	56.3	20.3	8.1	18.01	27.90	42.49

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-4444: year-round risk of frost-freeze

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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: **PRAGUE, NE US**

GHCND:USC00256922

Elev: 1345 ft. Lat: 41.306° N Lon: 96.806° 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	7.6	2.6	2.1	1.1	0.6	0.0	13.1	7.0	3.9	0.8	4.3	6.9	11.1
2	7.4	2.9	2.3	1.1	0.3	0.0	10.2	6.3	2.8	0.9	3.5	8.2	9.7
3	5.0	1.8	1.3	0.6	0.4	0.0	4.0	2.1	1.5	0.6	0.0	3.4	8.0
4	1.7	0.4	0.4	0.2	0.1	0.0	0.6	0.4	0.2	0.1	0.0	0.0	1.0
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	1.0	0.2	0.2	0.2	0.1	0.0	0.4	0.3	0.2	0.0	0.0	0.0	0.0
11	1.1	0.9	0.6	0.1	0.0	0.0	1.0	0.2	0.1	0.0	0.0	0.0	3.4
12	5.6	2.7	1.9	0.9	0.3	0.0	9.6	4.6	2.5	1.0	1.5	4.5	8.9
Summary	29.4	11.5	8.8	4.2	1.8	0.0	38.9	20.9	11.2	3.4	9.3	23.0	42.1

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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: **GREELEY, NE US**

GHCND:USC00253425

Elev: 2021 ft. Lat: 41.546° N Lon: 98.533° 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	10.0	22.4	7.2	5.3	6.0	0	0	0	0	0	0	1009	1071	1164	1319	0.0	0.0	5.0	12.6	30.9	6.6
2	38.8	14.3	26.5	6.7	5.4	5.8	-7777	-7777	-7777	0	0	0	797	852	936	1076	0.0	0.0	6.9	9.0	26.6	4.0
3	49.4	23.0	36.2	5.1	3.2	3.7	4	2	1	-7777	0	0	587	647	738	893	0.0	0.0	15.2	3.6	26.0	0.7
4	61.9	33.6	47.7	5.0	3.3	3.6	45	32	19	7	2	1	262	310	386	524	0.0	0.3	24.2	0.3	13.2	0.0
5	71.5	45.2	58.3	3.8	2.6	3.0	164	126	79	29	6	2	60	85	131	235	0.0	0.9	30.4	0.0	1.7	0.0
6	81.3	55.5	68.4	3.7	2.6	2.9	406	349	267	148	63	41	4	7	15	46	0.2	4.2	30.0	0.0	0.0	0.0
7	86.6	61.0	73.8	2.8	2.4	2.3	583	521	428	279	147	104	-7777	-7777	1	7	0.5	9.7	31.0	0.0	0.0	0.0
8	84.8	58.6	71.7	3.8	2.9	3.1	518	457	367	224	108	73	1	1	4	16	0.6	8.1	31.0	0.0	0.0	0.0
9	77.1	47.4	62.3	3.6	2.4	2.6	252	206	146	71	26	14	34	49	79	154	-7777	3.2	29.7	0.0	1.5	0.0
10	64.1	34.5	49.3	3.9	2.7	2.6	49	33	17	4	1	-7777	226	272	348	491	0.0	0.2	26.9	0.2	11.8	0.0
11	48.2	22.5	35.3	6.6	3.7	4.8	2	1	-7777	-7777	0	0	592	651	740	889	0.0	0.0	13.7	4.2	25.3	0.7
12	36.1	12.2	24.2	6.6	5.2	5.7	0	0	0	0	0	0	956	1018	1111	1266	0.0	0.0	5.0	11.1	30.8	4.4
Summary	61.2	34.8	48.0	4.9	3.5	3.8	2023	1727	1324	762	353	235	4528	4963	5653	6916	1.3	26.6	249.0	41.0	167.8	16.4

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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: **GREELEY, NE US**

GHCND:USC00253425

Elev: 2021 ft. Lat: 41.546° N Lon: 98.533° 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	0.52	3.1	1.4	0.2	0.0	0.21	0.38	0.70
2	0.65	3.8	1.8	0.2	-7777	0.20	0.64	0.87
3	1.89	6.1	3.8	1.1	0.4	0.74	1.53	2.34
4	2.49	7.8	4.8	1.7	0.6	1.29	2.11	3.11
5	3.99	10.2	7.1	2.9	0.9	2.61	3.80	4.90
6	4.39	10.0	7.3	3.1	1.0	2.10	4.40	5.97
7	3.23	7.8	5.4	1.9	0.9	1.57	2.54	4.15
8	3.20	7.3	5.0	1.9	1.2	1.62	2.80	4.58
9	2.68	6.5	4.4	1.7	0.6	1.07	2.46	4.11
10	1.88	6.5	4.2	1.4	0.5	0.88	1.33	2.86
11	1.28	4.1	2.4	0.8	0.4	0.22	1.05	1.97
12	0.71	3.4	1.6	0.3	0.0	0.27	0.42	0.99
Summary	26.91	76.6	49.2	17.2	6.5	12.78	23.46	36.55

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Station: **GREELEY, NE US**

GHCND:USC00253425

Elev: 2021 ft. Lat: 41.546° N Lon: 98.533° 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	5.7	2.3	2.0	0.8	0.3	-7777	11.4	7.2	3.7	0.8	1.8	4.3	8.5
2	6.0	2.8	2.5	1.0	0.2	-7777	9.8	5.2	2.7	0.5	2.5	5.0	10.5
3	4.7	1.2	1.0	0.5	0.3	-7777	3.9	2.2	1.3	0.7	0.0	2.0	7.8
4	1.4	0.4	0.4	0.2	-7777	-7777	0.6	0.4	0.2	0.1	0.0	0.0	1.0
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	0.3	0.3	0.1	-7777	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0
11	3.8	1.1	0.9	0.5	0.2	0.1	2.4	1.7	0.7	0.2	0.0	1.5	5.5
12	4.2	2.6	1.8	0.8	0.1	0.1	9.4	5.4	3.0	1.2	0.0	3.0	5.0
Summary	26.3	10.7	8.9	3.9	1.1	0.2	37.9	22.3	11.7	3.5	4.3	15.8	38.3

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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: **GREELEY, NE US**

GHCND:USC00253425

Elev: 2021 ft. Lat: 41.546° N Lon: 98.533° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	17	82	271	569	852	1047	982	668	317	74	5
45	1	4	38	169	419	702	893	828	522	201	34	1
50	0	1	14	94	280	552	738	673	380	110	11	-7777
55	0	-7777	4	45	164	406	583	518	252	49	2	0
60	0	-7777	1	19	79	267	428	367	146	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	26	87	200	351	545	692	640	432	234	73	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	24	106	377	946	1798	2845	3827	4495	4812	4886	4891
45	1	5	43	212	631	1333	2226	3054	3576	3777	3811	3812
50	0	1	15	109	389	941	1679	2352	2732	2842	2853	-7777
55	0	-7777	4	49	213	619	1202	1720	1972	2021	2023	2023
60	0	-7777	1	20	99	366	794	1161	1307	1324	-7777	1324
Growing Degree Units for Corn (Monthly)												
50/86	18	44	131	331	682	1227	1919	2559	2991	3225	3298	3312

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: CRAWFORD, NE US

GHCND:USC00251973
 Elev: 3671 ft. Lat: 42.700° N Lon: 103.417° 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	15.8	28.0	4.6	4.8	4.5	0	0	0	0	0	0	837	899	992	1147	0.0	0.0	7.8	7.2	29.7	4.0
2	42.9	17.8	30.3	5.7	5.3	5.3	-7777	-7777	-7777	0	0	0	690	746	830	970	0.0	0.0	9.4	5.0	25.6	3.1
3	51.8	24.8	38.3	5.0	4.0	4.2	4	2	1	-7777	0	0	522	582	674	828	0.0	0.0	18.4	3.0	23.7	0.9
4	61.3	32.3	46.8	4.5	2.2	3.0	32	20	10	2	-7777	-7777	277	326	406	548	0.0	0.1	24.7	0.5	14.5	0.0
5	70.9	42.5	56.7	3.7	2.1	2.6	132	98	58	17	2	1	79	107	161	275	0.0	0.4	30.1	0.0	2.8	0.0
6	80.3	51.6	65.9	4.0	2.7	3.1	337	282	205	99	34	20	8	14	26	71	0.1	4.1	29.9	0.0	0.2	0.0
7	87.8	57.7	72.8	3.0	2.2	2.5	550	488	397	250	124	86	-7777	-7777	2	10	1.1	12.7	31.0	0.0	0.0	0.0
8	86.8	56.3	71.5	2.6	2.3	2.3	514	453	362	217	96	61	1	2	4	14	0.7	10.0	31.0	0.0	0.0	0.0
9	76.8	46.1	61.4	3.6	2.5	2.7	232	188	128	55	17	8	39	54	85	162	0.0	2.7	29.3	0.0	1.3	0.0
10	63.0	34.2	48.6	3.6	1.8	2.4	37	23	11	2	-7777	-7777	235	283	364	510	0.0	0.1	26.6	0.3	11.2	0.1
11	49.7	23.9	36.8	6.9	3.7	5.2	3	2	1	-7777	0	0	549	608	697	846	0.0	0.0	15.8	3.1	23.1	1.2
12	39.4	14.8	27.1	5.3	5.2	5.1	-7777	0	0	0	0	0	865	927	1019	1174	0.0	0.0	6.7	8.1	29.9	3.4
Summary	62.6	34.8	48.7	4.4	3.2	3.6	1841	1556	1173	642	273	176	4102	4548	5260	6555	1.9	30.1	260.7	27.2	162.0	12.7

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1981-2010**

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

Station: **CRAWFORD, NE US**

GHCND:USC00251973
Elev: 3671 ft. Lat: 42.700° N Lon: 103.417° 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	0.50	4.2	2.1	0.2	0.1	0.28	0.41	0.68
2	0.73	4.9	2.7	0.5	0.1	0.32	0.55	0.95
3	1.72	6.2	4.2	1.0	0.2	1.16	1.64	2.13
4	2.29	8.0	5.4	1.5	0.7	0.96	2.10	3.20
5	3.42	10.1	6.4	2.1	0.9	1.61	2.78	4.75
6	3.18	8.8	5.6	1.9	0.9	1.60	2.94	4.38
7	2.81	8.1	5.9	1.9	0.6	1.92	2.69	3.62
8	0.98	5.9	3.0	0.7	0.1	0.64	0.78	1.33
9	1.55	6.3	3.9	1.1	0.4	0.79	1.17	2.28
10	1.48	5.2	3.5	1.1	0.4	0.61	1.19	2.13
11	0.84	5.1	2.7	0.1	0.1	0.39	0.76	1.23
12	0.73	5.0	2.8	0.3	0.1	0.44	0.56	1.03
Summary	20.23	77.8	48.2	12.4	4.6	10.72	17.57	27.71

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Station: **CRAWFORD, NE US**

GHCND:USC00251973
Elev: 3671 ft. Lat: 42.700° N Lon: 103.417° 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	7.4	4.1	2.2	0.9	0.3	0.1	16.6	10.9	7.6	2.2	2.4	7.8	11.3
2	9.5	4.6	3.1	0.9	0.4	0.1	10.6	6.4	4.2	0.6	2.8	8.8	13.7
3	13.6	4.7	3.3	1.7	1.0	0.1	8.7	5.2	3.3	0.9	5.9	10.6	23.1
4	8.1	2.6	1.9	1.2	0.4	0.1	2.4	1.7	0.8	0.1	0.2	8.8	12.1
5	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
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	1.0	0.2	0.2	0.1	0.1	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0
10	3.9	1.1	0.9	0.5	0.2	0.1	1.7	1.3	1.2	0.4	0.0	3.0	5.4
11	7.7	4.3	2.7	1.2	0.5	0.1	8.2	5.6	3.6	0.3	3.0	8.8	12.9
12	10.2	5.2	3.3	1.0	0.5	0.1	15.8	11.4	7.8	2.3	6.6	9.0	12.7
Summary	61.5	26.9	17.7	7.5	3.4	0.7	64.3	42.7	28.6	6.8	20.9	56.8	91.2

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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: **CRAWFORD, NE US**

GHCND:USC00251973
Elev: 3671 ft. Lat: 42.700° N Lon: 103.417° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	29	110	245	519	778	1015	977	646	298	94	14
45	3	8	50	145	371	629	860	823	500	181	45	2
50	-7777	1	17	74	238	481	705	668	359	93	16	-7777
55	0	-7777	4	32	132	337	550	514	232	37	3	-7777
60	0	-7777	1	10	58	205	397	362	128	11	1	0
Growing Degree Units for Corn (Monthly)												
50/86	20	36	104	192	333	489	647	627	415	219	84	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	43	153	398	917	1695	2710	3687	4333	4631	4725	4739
45	3	11	61	206	577	1206	2066	2889	3389	3570	3615	3617
50	-7777	1	18	92	330	811	1516	2184	2543	2636	2652	-7777
55	0	-7777	4	36	168	505	1055	1569	1801	1838	1841	-7777
60	0	-7777	1	11	69	274	671	1033	1161	1172	1173	1173
Growing Degree Units for Corn (Monthly)												
50/86	20	56	160	352	685	1174	1821	2448	2863	3082	3166	3186

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: **CULBERTSON, NE US**

GHCND:USC00252065

Elev: 2615 ft. Lat: 40.233° N Lon: 100.829° 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	14.2	27.4	6.1	4.1	4.8	-7777	0	0	0	0	0	857	919	1012	1167	0.0	0.0	8.4	8.7	30.8	3.0
2	44.8	17.7	31.3	6.5	4.5	5.0	-7777	-7777	0	0	0	0	665	721	805	945	0.0	0.0	10.7	5.7	27.0	2.1
3	54.5	25.4	39.9	4.3	3.2	3.4	7	4	1	-7777	0	0	473	532	623	777	0.0	0.0	19.2	2.2	24.5	0.5
4	64.6	34.0	49.3	4.5	2.6	3.2	50	35	19	4	1	-7777	221	266	340	475	0.0	0.5	25.6	0.3	12.6	0.0
5	73.8	45.4	59.6	3.8	2.6	2.9	193	153	102	40	10	5	51	72	114	208	0.1	2.1	30.6	0.0	1.6	0.0
6	84.7	55.6	70.1	3.6	3.0	3.0	457	400	316	189	91	63	3	5	11	35	0.9	8.9	30.0	0.0	0.0	0.0
7	90.9	61.9	76.4	3.3	2.0	2.4	663	601	509	356	213	162	-7777	-7777	-7777	3	3.8	17.2	31.0	0.0	0.0	0.0
8	88.9	60.4	74.6	3.7	2.3	2.8	609	547	455	306	171	126	-7777	-7777	1	7	2.1	14.4	31.0	0.0	0.0	0.0
9	80.3	49.1	64.7	3.7	2.8	2.9	313	263	195	103	42	26	22	32	54	112	0.3	6.2	29.6	0.0	0.7	0.0
10	67.2	36.4	51.8	3.8	2.3	2.6	70	49	26	7	1	1	170	210	280	417	0.0	0.6	28.0	0.3	9.1	0.0
11	52.4	24.3	38.3	5.4	3.1	3.8	4	2	-7777	-7777	-7777	0	503	561	650	799	0.0	0.0	17.1	2.0	24.6	0.3
12	40.9	15.3	28.1	6.0	4.8	5.2	0	0	0	0	0	0	834	896	989	1144	0.0	0.0	8.2	7.5	30.7	2.7
Summary	65.3	36.6	51.0	4.6	3.1	3.5	2366	2054	1623	1005	529	383	3799	4214	4879	6089	7.2	49.9	269.4	26.7	161.6	8.6

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

Station: **CULBERTSON, NE US**

GHCND:USC00252065

Elev: 2615 ft. Lat: 40.233° N Lon: 100.829° 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	0.46	3.1	1.3	0.2	0.1	0.14	0.31	0.56
2	0.57	4.2	1.7	0.2	0.0	0.19	0.40	0.83
3	1.32	6.0	3.1	0.8	0.2	0.52	1.29	1.83
4	2.29	7.8	4.7	1.3	0.6	1.28	1.70	3.19
5	3.20	11.0	6.7	1.8	0.7	1.66	3.03	4.99
6	3.34	9.5	6.1	2.1	0.7	2.11	3.43	4.45
7	3.44	9.1	5.6	2.2	0.9	1.93	2.84	4.47
8	2.99	7.9	4.8	1.9	0.9	1.57	2.90	4.03
9	1.49	6.3	3.1	0.9	0.2	0.66	1.23	2.24
10	1.84	6.4	3.4	1.1	0.4	0.58	1.69	2.64
11	0.90	4.3	2.2	0.5	0.2	0.48	0.57	1.52
12	0.51	3.4	1.2	0.3	0.1	0.14	0.31	0.73
Summary	22.35	79.0	43.9	13.3	5.0	11.26	19.70	31.48

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Station: **CULBERTSON, NE US**

GHCND:USC00252065
 Elev: 2615 ft. Lat: 40.233° N Lon: 100.829° 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	2.5	2.0	0.7	0.3	0.1	11.2	6.7	2.9	0.5	1.5	3.6	7.8
2	3.9	2.8	2.0	0.6	0.3	0.0	9.0	5.1	2.2	0.1	1.7	3.0	6.5
3	5.5	2.4	1.8	0.6	0.3	-7777	3.8	1.7	0.7	-7777	1.0	3.7	8.5
4	2.4	1.1	0.9	0.3	0.1	0.0	1.1	0.5	0.1	0.0	0.0	0.7	2.5
5	-7777	-7777	-7777	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	0.3	0.1	0.1	-7777	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
10	1.3	0.5	0.4	0.2	0.1	0.0	0.7	0.3	0.2	0.0	0.0	0.0	0.0
11	3.9	1.8	1.5	0.6	0.2	-7777	3.3	1.8	0.9	0.1	1.0	3.5	6.5
12	6.0	2.8	1.6	0.6	0.3	-7777	8.9	5.7	3.0	0.9	1.5	5.4	8.8
Summary	28.5	14.0	10.3	3.6	1.6	0.1	38.1	21.9	10.0	1.6	6.7	19.9	40.6

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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: **CULBERTSON, NE US**

GHCND:USC00252065

Elev: 2615 ft. Lat: 40.233° N Lon: 100.829° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	32	129	305	608	905	1128	1074	741	382	100	12
45	2	9	62	193	457	755	973	919	594	254	48	2
50	-7777	2	24	107	315	605	818	764	449	148	17	-7777
55	-7777	-7777	7	50	193	457	663	609	313	70	4	0
60	0	0	1	19	102	316	509	455	195	26	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	31	52	134	233	381	572	722	690	470	278	105	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	44	173	478	1086	1991	3119	4193	4934	5316	5416	5428
45	2	11	73	266	723	1478	2451	3370	3964	4218	4266	4268
50	-7777	2	26	133	448	1053	1871	2635	3084	3232	3249	-7777
55	-7777	-7777	7	57	250	707	1370	1979	2292	2362	2366	2366
60	0	0	1	20	122	438	947	1402	1597	1623	-7777	1623
Growing Degree Units for Corn (Monthly)												
50/86	31	83	217	450	831	1403	2125	2815	3285	3563	3668	3697

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: **BRADSHAW, NE US**

GHCND:USC00251065

Elev: 1719 ft. Lat: 40.884° N Lon: 97.750° 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	0.58	4.5	1.8	0.2	0.0	0.34	0.51	0.75
2	0.62	4.9	2.0	0.1	0.0	0.36	0.63	0.90
3	1.84	7.4	4.0	0.9	0.3	0.71	1.45	2.61
4	2.63	8.8	5.2	1.8	0.5	1.49	2.56	3.51
5	4.48	11.9	8.0	3.3	0.9	3.01	3.89	5.93
6	4.23	10.1	6.7	2.7	1.0	2.89	4.23	5.48
7	3.50	9.0	5.4	2.3	1.0	2.01	3.03	4.39
8	3.32	8.5	5.5	2.4	0.9	1.78	3.59	4.22
9	2.52	6.9	4.5	1.4	0.6	1.00	2.03	3.77
10	2.35	6.9	3.9	1.4	0.7	0.93	1.85	3.19
11	1.28	5.9	2.7	0.7	0.3	0.48	0.96	1.93
12	0.85	5.2	2.2	0.5	-7777	0.32	0.68	1.18
Summary	28.20	90.0	51.9	17.7	6.2	15.32	25.41	37.86

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

Station: **BRADSHAW, NE US**

GHCND:USC00251065

Elev: 1719 ft. Lat: 40.884° N Lon: 97.750° 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	6.5	3.5	2.1	0.9	0.3	0.0	15.7	11.8	7.0	1.5	2.5	6.0	9.6
2	6.8	3.7	2.6	0.8	0.2	0.0	13.9	10.2	6.6	2.2	4.0	6.9	10.5
3	5.1	2.2	1.7	0.6	0.4	-7777	5.9	3.5	2.2	0.6	1.5	3.0	7.2
4	1.2	0.7	0.6	0.2	0.1	0.0	1.0	0.7	0.5	0.0	0.0	0.0	1.2
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	0.1	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.3	0.2	0.1	0.1	-7777	0.4	0.2	0.2	0.1	0.0	0.0	0.0
11	3.3	1.9	1.3	0.4	0.1	-7777	3.5	1.5	0.5	0.3	0.0	2.0	5.4
12	6.2	3.7	2.4	0.9	0.2	0.0	12.3	7.4	4.7	1.6	2.5	5.6	8.5
Summary	30.2	16.0	10.9	3.9	1.4	0.0	52.7	35.3	21.7	6.3	10.5	23.5	42.4

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

Station: **LYONS, NE US**

GHCND:USC00255050

Elev: 1280 ft. Lat: 41.938° N Lon: 96.479° 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	0.66	3.9	2.1	0.2	0.0	0.30	0.63	1.05
2	0.79	3.8	2.2	0.3	0.1	0.40	0.68	0.97
3	2.00	6.4	4.4	1.4	0.4	0.58	1.80	2.75
4	3.47	9.1	6.6	2.6	1.0	1.81	3.09	4.22
5	4.46	10.5	8.1	3.1	1.1	2.83	4.29	6.01
6	4.64	9.0	6.8	3.0	1.3	2.59	4.53	6.26
7	3.78	8.0	6.3	2.7	1.2	2.46	3.25	4.67
8	3.24	7.1	5.1	2.1	0.9	1.77	3.36	4.09
9	3.25	7.1	5.1	2.2	0.9	1.51	3.16	4.58
10	2.22	6.1	4.6	1.7	0.6	0.79	2.07	3.40
11	1.61	4.7	3.1	1.1	0.4	0.65	1.48	2.19
12	0.95	4.8	2.7	0.6	0.2	0.43	0.81	1.38
Summary	31.07	80.5	57.1	21.0	8.1	16.12	29.15	41.57

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

Station: **LYONS, NE US**

GHCND:USC00255050
 Elev: 1280 ft. Lat: 41.938° N Lon: 96.479° 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	2.8	2.0	0.9	0.5	-7777	14.9	10.5	6.3	2.1	2.0	5.0	8.0
2	6.0	2.5	2.1	0.9	0.3	-7777	12.8	10.1	6.3	2.9	2.4	5.2	9.0
3	7.2	1.7	1.6	0.8	0.5	0.2	5.6	3.3	1.9	0.7	2.0	6.5	12.0
4	1.3	0.4	0.3	0.2	0.1	-7777	0.8	0.5	0.4	0.1	0.0	0.0	1.0
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	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0
11	2.5	1.3	1.1	0.4	-7777	-7777	2.9	1.4	0.5	0.2	0.0	1.0	4.0
12	6.5	2.7	2.5	0.8	0.4	0.0	12.2	8.3	4.7	1.7	3.5	7.0	10.0
Summary	29.9	11.5	9.7	4.0	1.8	0.2	49.4	34.2	20.1	7.7	9.9	24.7	44.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
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U.S. Department of Commerce
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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: **ELLSWORTH 15 NNE, NE US**

GHCND:USC00252647
Elev: 3970 ft. Lat: 42.265° N Lon: 102.213° 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	11.8	23.7	5.5	4.5	4.9	0	0	0	0	0	0	970	1032	1125	1280	0.0	0.0	4.2	11.1	30.7	5.6
2	38.7	14.2	26.5	6.5	5.5	5.9	-7777	0	0	0	0	0	799	855	939	1079	0.0	0.0	6.6	8.1	27.2	4.3
3	47.9	23.1	35.5	4.6	3.4	3.8	2	1	-7777	0	0	0	607	668	760	915	0.0	0.0	14.9	4.6	25.9	0.9
4	57.1	31.3	44.2	4.5	3.0	3.5	24	15	7	1	-7777	-7777	348	399	481	625	0.0	-7777	20.6	1.4	16.1	-7777
5	67.2	42.2	54.7	4.0	2.3	2.9	108	79	45	12	2	1	117	150	209	332	0.0	0.3	28.2	0.0	3.1	0.0
6	77.2	51.7	64.4	3.6	3.0	3.1	299	248	176	83	29	18	16	24	43	100	-7777	2.6	29.7	0.0	0.0	0.0
7	85.3	58.4	71.8	3.3	2.2	2.7	523	462	372	230	114	79	1	2	5	18	1.0	9.5	31.0	0.0	0.0	0.0
8	84.3	56.7	70.5	2.9	2.4	2.5	483	423	335	195	85	53	3	5	9	25	0.3	7.6	31.0	0.0	0.0	0.0
9	74.1	45.7	59.9	3.7	2.8	3.0	207	167	114	49	13	6	60	80	117	202	-7777	1.9	28.9	-7777	1.8	0.0
10	60.5	32.9	46.7	3.9	2.1	2.6	30	18	8	1	-7777	-7777	287	338	420	569	0.0	-7777	23.9	0.6	12.7	-7777
11	46.4	21.0	33.7	6.7	4.0	5.2	1	1	-7777	0	0	0	640	699	789	939	0.0	0.0	12.4	5.5	26.2	1.4
12	35.8	11.5	23.6	6.1	5.5	5.6	0	0	0	0	0	0	972	1034	1126	1282	0.0	0.0	4.7	11.2	30.7	5.1
Summary	59.2	33.4	46.3	4.6	3.4	3.8	1677	1414	1057	571	243	157	4820	5286	6023	7366	1.3	21.9	236.1	42.5	174.4	17.3

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-4444: year-round risk of frost-freeze

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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: **ELLSWORTH 15 NNE, NE US**

GHCND:USC00252647
Elev: 3970 ft. Lat: 42.265° N Lon: 102.213° 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	0.27	2.5	1.1	0.1	0.0	0.12	0.26	0.38
2	0.52	3.5	1.6	0.2	0.0	0.22	0.40	0.78
3	0.82	4.0	2.3	0.3	0.1	0.53	0.65	1.13
4	2.03	7.2	4.9	1.1	0.3	1.03	1.92	2.64
5	2.92	9.5	6.3	1.9	0.6	1.69	2.53	3.31
6	3.15	9.7	6.7	2.0	0.7	1.84	2.93	4.34
7	2.69	8.4	6.0	1.8	0.5	1.71	2.83	3.38
8	1.81	5.5	3.7	1.1	0.4	1.14	1.69	2.53
9	1.68	6.0	3.9	0.9	0.3	0.84	1.48	2.35
10	1.49	4.7	3.2	1.1	0.2	0.60	1.32	2.12
11	0.54	3.4	1.9	0.2	0.0	0.20	0.43	0.87
12	0.31	3.0	1.1	0.1	0.0	0.16	0.25	0.38
Summary	18.23	67.4	42.7	10.8	3.1	10.08	16.69	24.21

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Station: ELLSWORTH 15 NNE, NE US

GHCND:USC00252647
 Elev: 3970 ft. Lat: 42.265° N Lon: 102.213° 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	1.9	1.9	0.5	0.2	-7777	@	@	@	@	1.0	4.5	6.0
2	6.7	2.3	2.2	0.6	0.3	-7777	@	@	@	@	1.8	6.0	10.0
3	5.7	2.1	1.9	0.7	0.3	-7777	@	@	@	@	2.0	4.0	5.5
4	4.9	1.5	1.5	0.6	0.3	-7777	@	@	@	@	1.0	3.0	8.0
5	0.1	0.1	-7777	-7777	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	0.5	0.3	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.4	0.6	0.5	0.2	0.1	0.0	@	@	@	@	0.0	0.0	2.0
11	5.4	2.1	1.9	0.8	0.4	-7777	@	@	@	@	1.2	4.2	8.2
12	4.8	2.2	2.0	0.4	0.2	0.0	@	@	@	@	3.0	4.0	7.0
Summary	33.4	13.1	12.1	3.9	1.8	0.0	9999	9999	9999	9999	10.0	25.7	46.7

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Station: ELLSWORTH 15 NNE, NE US

GHCND:USC00252647
Elev: 3970 ft. Lat: 42.265° N Lon: 102.213° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	15	78	200	460	733	987	945	601	261	67	7
45	-7777	3	33	116	322	584	832	790	459	156	30	1
50	-7777	-7777	11	58	202	438	677	636	325	77	9	-7777
55	0	-7777	2	24	108	299	523	483	207	30	1	0
60	0	0	-7777	7	45	176	372	335	114	8	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	22	76	150	279	450	633	607	378	193	68	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	20	98	298	758	1491	2478	3423	4024	4285	4352	4359
45	-7777	3	36	152	474	1058	1890	2680	3139	3295	3325	3326
50	-7777	-7777	11	69	271	709	1386	2022	2347	2424	2433	-7777
55	0	-7777	2	26	134	433	956	1439	1646	1676	1677	1677
60	0	0	-7777	7	52	228	600	935	1049	1057	-7777	1057
Growing Degree Units for Corn (Monthly)												
50/86	11	33	109	259	538	988	1621	2228	2606	2799	2867	2881

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: **ELLSWORTH 24 NNE, NE US**

GHCND:USC00252646
Elev: 3858 ft. Lat: 42.383° N Lon: 102.150° 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	0.45	3.6	1.2	0.1	0.0	0.20	0.39	0.59
2	0.61	4.4	1.7	0.2	0.0	0.24	0.62	0.81
3	0.89	6.1	2.6	0.5	0.0	0.56	0.84	1.20
4	1.98	6.9	4.0	0.6	0.0	0.91	1.58	2.98
5	3.05	9.2	6.6	2.6	0.5	1.97	3.05	4.00
6	3.40	8.9	5.8	2.3	0.9	1.83	3.80	4.59
7	2.87	8.7	6.3	2.2	0.6	1.89	2.42	3.69
8	2.16	6.5	4.6	1.3	0.2	1.17	2.01	2.86
9	1.65	6.4	3.9	0.7	0.1	0.93	1.41	2.29
10	1.34	4.9	3.2	0.9	0.0	0.77	1.25	1.75
11	0.60	4.6	2.3	0.5	0.0	0.34	0.53	0.82
12	0.50	4.3	1.5	0.1	0.0	0.20	0.39	0.63
Summary	19.50	74.5	43.7	12.0	2.3	11.01	18.29	26.21

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Station: **ELLSWORTH 24 NNE, NE US**

GHCND:USC00252646
 Elev: 3858 ft. Lat: 42.383° N Lon: 102.150° 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	3.2	2.4	0.9	0.2	0.0	@	@	@	@	1.5	6.2	8.7
2	6.0	3.5	2.5	0.6	0.2	0.0	@	@	@	@	2.5	5.0	8.0
3	7.7	4.3	3.0	0.9	0.3	0.0	@	@	@	@	4.7	7.0	10.9
4	5.1	2.1	1.7	0.8	0.4	0.0	@	@	@	@	0.8	4.7	9.0
5	-7777	0.1	0.1	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	0.9	0.3	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
10	3.0	1.2	0.9	0.6	0.3	0.0	@	@	@	@	0.0	3.0	5.0
11	7.4	3.0	2.1	0.9	0.4	0.0	@	@	@	@	3.5	7.0	10.0
12	6.3	3.5	2.6	0.8	0.1	0.0	@	@	@	@	2.6	5.0	9.0
Summary	42.5	21.2	15.5	5.6	2.0	0.0	9999	9999	9999	9999	15.6	37.9	60.6

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

Station: **ELLSWORTH, NE US**

GHCND:USC00252645
Elev: 3904 ft. Lat: 42.063° N Lon: 102.282° 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	0.21	2.8	0.7	0.0	0.0	0.06	0.20	0.33
2	0.28	3.6	0.9	-7777	0.0	0.07	0.22	0.33
3	0.63	5.0	1.9	0.2	-7777	0.33	0.58	0.82
4	1.48	6.6	4.0	0.8	0.2	0.73	1.22	1.87
5	2.61	8.5	5.9	1.9	0.3	1.59	2.57	3.37
6	2.62	8.8	6.2	1.7	0.3	1.39	2.30	3.80
7	2.29	7.5	5.2	1.5	0.4	1.33	2.41	2.98
8	1.78	5.8	3.9	1.1	0.3	1.04	1.82	2.37
9	1.60	5.5	3.9	1.0	0.1	0.93	1.33	2.49
10	1.11	4.1	2.9	0.5	0.1	0.50	0.88	1.71
11	0.46	3.4	1.5	0.2	0.0	0.25	0.39	0.76
12	0.23	3.2	0.8	-7777	0.0	0.10	0.15	0.33
Summary	15.30	64.8	37.8	8.9	1.7	8.32	14.07	21.16

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Station: **ELLSWORTH, NE US**

GHCND:USC00252645
Elev: 3904 ft. Lat: 42.063° N Lon: 102.282° 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	2.3	2.1	0.7	0.1	-7777	11.6	7.0	3.5	0.5	2.0	3.0	6.0
2	5.4	2.8	2.6	0.7	0.1	0.0	9.0	4.4	1.8	0.4	2.0	4.0	9.0
3	6.9	3.2	2.6	1.0	0.3	0.0	5.4	2.2	0.7	0.0	4.0	6.5	8.0
4	6.3	2.0	1.9	1.0	0.5	0.0	2.3	1.0	0.3	-7777	2.0	6.7	9.0
5	0.7	0.2	0.2	0.1	-7777	0.0	0.2	-7777	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	0.7	0.3	0.3	0.1	-7777	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
10	2.9	1.0	1.0	0.5	0.1	0.0	1.3	0.6	0.1	0.0	0.0	0.5	3.0
11	5.4	2.3	2.0	0.8	0.1	0.0	4.9	2.9	1.1	0.0	1.5	4.3	8.0
12	5.1	2.8	2.5	0.6	0.1	0.0	10.2	5.6	3.0	0.0	2.5	4.0	7.0
Summary	38.2	16.9	15.2	5.5	1.3	0.0	45.2	23.8	10.5	0.9	14.0	29.0	50.0

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

Station: **WOOD RIVER 1 NNW, NE US**

GHCND:USC00259440

Elev: 1949 ft. Lat: 40.825° N Lon: 98.600° 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	0.53	@	@	@	@			
2	0.67	@	@	@	@			
3	1.97	@	@	@	@			
4	2.60	@	@	@	@			
5	4.73	@	@	@	@			
6	4.42	@	@	@	@			
7	3.60	@	@	@	@			
8	2.96	@	@	@	@			
9	2.39	@	@	@	@			
10	2.10	@	@	@	@			
11	1.26	@	@	@	@			
12	0.71	@	@	@	@			
Summary	27.94	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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: **WESTERN, NE US**

GHCND:USC00259150

Elev: 1499 ft. Lat: 40.392° N Lon: 97.240° 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	0.71	3.6	1.8	0.4	0.1	0.17	0.60	1.00
2	0.96	3.5	2.0	0.6	0.1	0.44	0.81	1.10
3	2.05	4.6	3.7	1.5	0.5	1.15	1.43	2.70
4	2.62	6.1	5.2	2.0	0.6	1.91	2.71	3.00
5	4.61	8.6	7.2	3.3	1.6	2.89	4.27	7.35
6	4.28	6.9	5.9	2.9	1.1	2.60	3.95	5.23
7	3.79	6.4	5.5	2.6	1.3	1.95	2.97	4.22
8	3.61	6.2	5.6	2.9	1.0	2.20	3.21	5.17
9	3.33	5.6	4.9	2.1	1.1	2.12	2.77	4.36
10	2.02	4.3	3.8	1.2	0.4	0.75	1.69	2.73
11	1.41	3.6	2.5	1.0	0.4	0.37	1.10	2.37
12	1.05	4.2	2.2	0.6	-7777	0.19	0.72	1.25
Summary	30.44	63.6	50.3	21.1	8.2	16.74	26.23	40.48

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

Station: **WESTERN, NE US**

GHCND:USC00259150
 Elev: 1499 ft. Lat: 40.392° N Lon: 97.240° 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	7.0	2.6	1.9	0.9	0.5	-7777	@	@	@	@	2.2	6.5	12.6
2	5.9	2.4	2.0	1.0	0.3	-7777	@	@	@	@	2.0	5.0	7.5
3	4.5	1.4	1.3	0.7	0.2	0.0	@	@	@	@	0.0	2.0	8.0
4	1.4	0.3	0.3	0.2	0.2	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	0.8	0.1	0.1	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
11	2.7	1.3	1.0	0.4	0.1	0.0	@	@	@	@	0.2	1.0	4.3
12	5.1	2.2	1.8	0.9	0.3	0.0	@	@	@	@	0.9	5.0	7.0
Summary	27.4	10.3	8.4	4.2	1.6	0.0	9999	9999	9999	9999	5.3	19.5	39.4

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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: ROSE 10 WNW, NE US

GHCND:USC00257318
 Elev: 2539 ft. Lat: 42.203° N Lon: 99.700° 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	35.5	13.0	24.2	6.7	5.8	6.1	0	0	0	0	0	0	953	1015	1108	1263	0.0	0.0	5.3	12.2	30.2	5.3
2	39.7	16.5	28.1	6.8	5.6	6.0	-7777	-7777	-7777	0	0	0	753	809	893	1033	0.0	0.0	7.9	8.9	26.0	3.7
3	50.0	25.1	37.5	5.1	3.8	4.1	5	3	1	-7777	0	0	546	606	697	851	0.0	0.1	15.7	3.6	23.3	0.7
4	61.3	34.5	47.9	4.5	2.8	3.3	42	30	17	5	1	-7777	255	303	380	518	0.0	0.3	23.9	0.2	11.4	0.0
5	70.8	44.4	57.6	3.7	2.8	2.9	149	112	69	25	4	2	69	94	144	254	0.1	0.4	30.1	0.0	1.9	0.0
6	80.1	54.5	67.3	3.8	2.8	3.1	373	317	236	123	48	30	4	8	17	54	0.2	3.0	30.0	0.0	0.0	0.0
7	86.7	60.0	73.4	3.3	2.8	2.8	569	507	415	268	143	104	-7777	-7777	2	9	1.6	11.0	31.0	0.0	0.0	0.0
8	85.2	58.1	71.7	3.0	2.4	2.6	517	457	367	227	112	76	1	3	6	21	0.7	9.3	31.0	0.0	0.0	0.0
9	76.1	48.0	62.1	3.3	2.3	2.5	248	203	145	70	26	15	36	52	84	159	0.1	3.1	29.5	0.0	1.3	0.0
10	63.5	35.8	49.7	3.9	2.3	2.7	49	33	17	3	-7777	-7777	215	261	338	479	0.0	0.5	26.1	0.3	9.4	0.0
11	47.8	24.1	35.9	6.3	3.7	4.8	4	2	1	-7777	0	0	575	633	722	871	0.0	0.0	14.1	4.3	23.7	0.9
12	36.5	14.1	25.3	6.8	5.5	6.0	-7777	-7777	-7777	0	0	0	921	983	1075	1230	0.0	0.0	5.9	11.3	30.2	3.8
Summary	61.1	35.7	48.4	4.8	3.6	3.9	1956	1664	1268	721	334	227	4328	4767	5466	6742	2.7	27.7	250.5	40.8	157.4	14.4

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

Station: **ROSE 10 WNW, NE US**

GHCND:USC00257318
Elev: 2539 ft. Lat: 42.203° N Lon: 99.700° 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	0.42	2.3	1.1	0.3	0.1	0.07	0.31	0.51
2	0.63	3.1	1.8	0.4	0.1	0.19	0.62	0.87
3	1.20	4.3	2.6	0.9	0.4	0.37	0.93	1.75
4	2.53	6.3	4.4	1.5	0.2	1.19	2.22	3.80
5	3.57	9.6	7.2	2.3	0.8	2.17	3.41	4.65
6	3.44	7.9	6.1	2.5	0.8	2.19	3.33	4.06
7	2.92	7.3	5.2	2.2	0.9	1.76	2.57	4.11
8	2.99	5.8	4.2	1.9	0.9	1.66	2.84	3.79
9	2.11	6.0	4.2	1.0	0.6	1.27	1.83	2.79
10	1.70	4.1	2.9	0.8	0.3	0.76	1.60	2.34
11	0.95	3.5	2.5	0.6	0.2	0.41	0.91	1.29
12	0.52	3.1	1.2	0.3	0.1	0.13	0.34	0.61
Summary	22.98	63.3	43.4	14.7	5.4	12.17	20.91	30.57

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Station: **ROSE 10 WNW, NE US**

GHCND:USC00257318
 Elev: 2539 ft. Lat: 42.203° N Lon: 99.700° 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	4.9	2.0	1.3	0.8	0.3	0.1	@	@	@	@	0.7	3.0	6.1
2	6.5	2.5	2.0	0.8	0.5	0.1	@	@	@	@	1.3	5.0	9.5
3	5.4	2.4	1.8	0.7	0.4	0.1	@	@	@	@	2.0	4.5	7.5
4	2.1	1.1	0.9	0.5	0.3	0.0	@	@	@	@	0.0	0.5	2.5
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	0.2	0.1	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.6	0.3	0.3	0.1	0.0	0.0	@	@	@	@	0.0	0.0	1.0
11	6.2	2.0	1.7	0.8	0.3	0.1	@	@	@	@	1.0	4.3	6.0
12	8.1	2.7	2.2	0.8	0.4	0.1	@	@	@	@	1.0	5.9	13.5
Summary	34.0	13.1	10.3	4.6	2.2	0.5	9999	9999	9999	9999	6.0	23.2	46.1

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Station: **ROSE 10 WNW, NE US**

GHCND:USC00257318
Elev: 2539 ft. Lat: 42.203° N Lon: 99.700° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	28	107	270	547	819	1034	981	662	329	80	14
45	3	9	52	165	398	669	879	826	516	211	36	3
50	-7777	2	19	89	262	519	724	671	376	116	13	1
55	0	-7777	5	42	149	373	569	517	248	49	4	-7777
60	0	-7777	1	17	69	236	415	367	145	17	1	-7777
Growing Degree Units for Corn (Monthly)												
50/86	19	34	96	191	337	518	669	634	415	226	71	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	41	148	418	965	1784	2818	3799	4461	4790	4870	4884
45	3	12	64	229	627	1296	2175	3001	3517	3728	3764	3767
50	-7777	2	21	110	372	891	1615	2286	2662	2778	2791	2792
55	0	-7777	5	47	196	569	1138	1655	1903	1952	1956	-7777
60	0	-7777	1	18	87	323	738	1105	1250	1267	1268	-7777
Growing Degree Units for Corn (Monthly)												
50/86	19	53	149	340	677	1195	1864	2498	2913	3139	3210	3231

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: **MASON CITY, NE US**

GHCND:USC00255250
 Elev: 2293 ft. Lat: 41.221° N Lon: 99.294° 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	36.4	11.3	23.8	6.3	5.2	5.6	0	0	0	0	0	0	966	1028	1121	1276	0.0	0.0	6.0	11.6	30.8	5.5
2	40.5	15.1	27.8	6.7	5.3	5.8	-7777	-7777	-7777	0	0	0	762	817	901	1041	0.0	0.0	7.7	8.3	27.0	3.4
3	50.5	24.1	37.3	4.9	3.3	3.7	6	3	1	-7777	0	0	555	614	704	859	0.0	0.0	16.2	3.6	24.3	0.9
4	61.5	34.1	47.8	4.8	2.6	3.3	43	30	17	4	1	-7777	259	306	383	520	0.0	0.2	24.0	0.3	12.1	0.0
5	70.9	45.8	58.3	3.6	2.8	2.9	168	131	84	32	8	3	65	89	135	238	0.0	0.9	30.5	0.0	1.6	0.0
6	81.1	55.9	68.5	4.0	2.6	3.1	409	353	271	153	68	45	4	8	16	48	0.2	4.8	30.0	0.0	0.0	0.0
7	86.5	61.8	74.2	3.3	2.7	2.8	593	532	439	291	160	116	-7777	-7777	1	7	1.2	10.4	31.0	0.0	0.0	0.0
8	84.7	59.2	72.0	3.5	2.7	2.9	526	465	375	232	113	78	1	2	4	17	0.5	8.1	31.0	0.0	0.0	0.0
9	77.1	48.4	62.8	3.8	2.6	2.8	260	213	152	75	28	16	27	41	70	143	0.1	2.9	29.7	0.0	0.8	0.0
10	64.3	34.9	49.6	3.9	2.2	2.6	52	36	19	5	1	-7777	220	265	341	482	0.0	0.4	26.4	0.5	11.0	0.0
11	49.2	23.2	36.2	6.2	3.8	4.7	3	2	-7777	0	0	0	567	626	714	864	0.0	0.0	14.3	3.9	25.9	0.5
12	37.4	13.1	25.3	6.6	5.2	5.8	0	0	0	0	0	0	922	984	1077	1232	0.0	0.0	5.7	10.0	30.8	4.1
Summary	61.7	35.6	48.6	4.8	3.4	3.8	2060	1765	1358	792	379	258	4348	4780	5467	6727	2.0	27.7	252.5	38.2	164.3	14.4

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Station: **MASON CITY, NE US**

GHCND:USC00255250

Elev: 2293 ft. Lat: 41.221° N Lon: 99.294° 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	0.59	3.2	1.7	0.3	0.1	0.24	0.50	0.71
2	0.66	4.1	2.3	0.2	-7777	0.24	0.65	1.01
3	1.82	6.1	4.0	1.1	0.4	0.60	1.52	2.73
4	2.67	7.3	5.4	1.6	0.7	1.35	2.20	3.37
5	4.20	9.9	7.7	2.7	1.0	2.94	3.82	5.38
6	3.93	8.8	7.0	2.7	1.1	2.24	2.87	6.26
7	3.25	7.1	5.6	2.1	0.9	1.91	3.11	4.30
8	3.07	6.7	5.1	2.3	0.9	1.78	2.92	3.47
9	2.52	5.4	4.0	1.6	0.6	1.03	1.70	4.12
10	1.90	5.4	4.2	1.1	0.3	0.86	1.32	2.26
11	1.18	3.8	2.8	0.7	0.2	0.37	0.98	1.81
12	0.60	3.0	1.6	0.3	0.1	0.13	0.39	0.72
Summary	26.39	70.8	51.4	16.7	6.3	13.69	21.98	36.14

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Station: **MASON CITY, NE US**

GHCND:USC00255250
 Elev: 2293 ft. Lat: 41.221° N Lon: 99.294° 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	2.8	2.1	0.8	0.3	-7777	12.0	5.8	2.1	0.7	3.0	4.5	7.5
2	5.2	2.8	2.2	0.6	0.2	0.0	10.6	6.1	3.7	1.0	1.0	4.0	8.8
3	5.5	1.8	1.5	0.6	0.2	0.1	4.3	2.2	1.3	0.2	0.0	2.2	7.0
4	1.0	0.4	0.4	0.2	0.1	0.0	0.6	0.3	0.2	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	1.6	0.6	0.5	0.2	0.1	-7777	0.4	0.2	0.1	0.0	0.0	0.0	1.0
11	3.2	1.4	1.2	0.4	0.2	0.1	2.8	1.6	1.0	0.2	0.0	1.7	3.7
12	4.8	2.0	1.6	0.7	0.2	0.0	9.8	5.3	1.9	0.1	2.0	4.0	7.0
Summary	27.4	11.8	9.5	3.5	1.3	0.2	40.5	21.5	10.3	2.2	6.0	16.4	35.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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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: **MASON CITY, NE US**

GHCND:USC00255250

Elev: 2293 ft. Lat: 41.221° N Lon: 99.294° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	22	104	271	570	855	1058	991	683	327	81	7
45	2	6	51	169	420	705	903	835	535	211	38	1
50	-7777	1	20	92	282	556	748	680	392	117	14	-7777
55	0	-7777	6	43	168	409	593	526	260	52	3	0
60	0	-7777	1	17	84	271	439	375	152	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	34	101	195	346	544	698	646	436	240	82	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	31	135	406	976	1831	2889	3880	4563	4890	4971	4978
45	2	8	59	228	648	1353	2256	3091	3626	3837	3875	3876
50	-7777	1	21	113	395	951	1699	2379	2771	2888	2902	-7777
55	0	-7777	6	49	217	626	1219	1745	2005	2057	2060	2060
60	0	-7777	1	18	102	373	812	1187	1339	1358	-7777	1358
Growing Degree Units for Corn (Monthly)												
50/86	21	55	156	351	697	1241	1939	2585	3021	3261	3343	3361

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: **GRAND ISLAND CENTRAL NE REGIONAL AIRPORT, NE US**

GHCND:USW00014935
 Elev: 1841 ft. Lat: 40.961° N Lon: 98.314° 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	35.8	14.4	25.1	6.9	5.1	5.8	-7777	0	0	0	0	0	927	989	1082	1237	0.0	0.0	4.8	12.4	30.3	4.0
2	39.8	18.4	29.1	7.1	5.4	6.0	-7777	-7777	-7777	-7777	0	0	725	781	865	1005	0.0	0.0	7.0	8.5	25.6	2.3
3	51.1	27.6	39.4	5.2	3.6	4.0	11	7	3	-7777	-7777	-7777	496	554	643	796	0.0	0.1	16.3	2.9	21.1	0.5
4	63.2	37.9	50.6	4.6	3.0	3.5	67	49	30	11	3	1	200	243	314	445	0.0	0.5	25.3	0.1	7.4	0.0
5	72.7	49.6	61.2	3.8	2.7	3.1	225	181	124	54	17	10	34	53	88	173	0.0	1.1	30.8	0.0	0.3	0.0
6	83.2	59.4	71.3	3.7	2.6	2.9	490	431	345	213	107	76	1	2	6	24	0.5	6.5	30.0	0.0	0.0	0.0
7	87.7	64.7	76.2	3.3	2.2	2.5	657	595	502	349	207	157	0	0	-7777	2	1.5	12.2	31.0	0.0	0.0	0.0
8	85.4	62.6	74.0	3.5	2.6	2.9	589	527	435	287	156	114	-7777	-7777	1	8	0.8	8.3	31.0	0.0	0.0	0.0
9	78.0	52.3	65.1	3.6	2.5	2.8	323	272	203	109	48	32	19	28	49	105	-7777	3.7	29.8	0.0	0.4	0.0
10	64.8	39.6	52.2	3.7	2.7	2.7	79	57	33	11	3	2	166	206	275	408	0.0	0.4	27.8	0.2	6.0	0.0
11	49.4	26.8	38.1	6.0	3.7	4.6	7	4	1	-7777	0	0	514	571	658	807	0.0	0.0	14.8	3.0	21.2	0.3
12	36.9	16.4	26.7	6.6	5.2	5.8	-7777	0	0	0	0	0	879	941	1034	1189	0.0	0.0	5.2	10.7	30.1	2.5
Summary	62.3	39.1	50.8	4.8	3.4	3.9	2448	2123	1676	1034	541	392	3961	4368	5015	6199	2.8	32.8	253.8	37.8	142.4	9.6

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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: **GRAND ISLAND CENTRAL NE REGIONAL AIRPORT, NE US**

GHCND:USW00014935

Elev: 1841 ft. Lat: 40.961° N Lon: 98.314° 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	0.53	5.1	1.7	0.2	0.0	0.26	0.53	0.69
2	0.68	5.1	2.1	0.2	-7777	0.30	0.56	1.01
3	1.80	7.1	3.8	1.2	0.4	0.71	1.63	2.95
4	2.53	8.4	4.5	1.7	0.6	1.31	2.42	3.36
5	4.41	11.6	7.2	2.9	1.1	2.39	4.27	5.74
6	4.30	10.5	6.6	2.7	1.3	2.89	4.09	5.26
7	3.40	8.8	5.2	2.1	1.0	2.00	2.82	4.10
8	3.12	8.2	5.6	2.0	0.9	2.04	2.78	4.18
9	2.23	7.0	4.3	1.4	0.5	1.01	1.61	3.02
10	1.86	6.6	4.0	1.2	0.4	0.90	1.72	2.50
11	1.17	5.3	2.5	0.8	0.2	0.32	0.90	1.72
12	0.63	5.0	1.8	0.3	0.0	0.24	0.44	0.81
Summary	26.66	88.7	49.3	16.7	6.4	14.37	23.77	35.34

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Station: **GRAND ISLAND CENTRAL NE REGIONAL AIRPORT, NE US**

GHCND:USW00014935
 Elev: 1841 ft. Lat: 40.961° N Lon: 98.314° 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	6.5	4.4	2.0	0.7	0.2	-7777	12.8	8.2	3.7	0.8	3.1	5.7	8.4
2	6.3	3.6	2.1	0.6	0.2	-7777	11.0	6.1	3.4	0.5	2.7	5.9	8.1
3	5.4	2.6	1.1	0.6	0.3	0.1	3.7	2.2	1.2	0.3	0.5	4.2	6.9
4	1.5	0.9	0.4	0.2	0.1	0.0	0.7	0.2	0.1	0.0	0.0	0.0	1.5
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	0.1	-7777	-7777	-7777	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.5	0.2	0.1	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.5
11	3.1	2.1	1.0	0.2	0.1	-7777	2.9	0.8	0.6	0.2	0.2	2.5	4.2
12	5.1	3.7	1.5	0.5	0.2	0.0	9.3	5.4	2.7	1.0	1.8	4.1	7.4
Summary	29.0	17.8	8.3	2.9	1.2	0.1	40.8	23.1	11.8	2.8	8.3	22.4	37.0

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Station: **GRAND ISLAND CENTRAL NE REGIONAL AIRPORT, NE US**

GHCND:USW00014935
Elev: 1841 ft. Lat: 40.961° N Lon: 98.314° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	30	127	337	656	939	1122	1054	755	394	103	11
45	3	9	65	220	502	789	967	899	606	265	53	2
50	-7777	2	29	129	355	639	812	744	461	157	22	-7777
55	-7777	-7777	11	67	225	490	657	589	323	79	7	-7777
60	0	-7777	3	30	124	345	502	435	203	33	1	0
Growing Degree Units for Corn (Monthly)												
50/86	18	31	101	217	393	612	751	702	474	249	79	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	43	170	507	1163	2102	3224	4278	5033	5427	5530	5541
45	3	12	77	297	799	1588	2555	3454	4060	4325	4378	4380
50	-7777	2	31	160	515	1154	1966	2710	3171	3328	3350	-7777
55	-7777	-7777	11	78	303	793	1450	2039	2362	2441	2448	-7777
60	0	-7777	3	33	157	502	1004	1439	1642	1675	1676	1676
Growing Degree Units for Corn (Monthly)												
50/86	18	49	150	367	760	1372	2123	2825	3299	3548	3627	3642

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: **CLARKSON, NE US**

GHCND:USC00251660
 Elev: 1549 ft. Lat: 41.724° N Lon: 97.126° 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	31.7	11.0	21.4	6.2	5.1	5.5	0	0	0	0	0	0	1043	1105	1198	1353	0.0	0.0	2.5	15.1	30.7	6.1
2	36.1	15.4	25.7	6.6	5.5	5.8	-7777	-7777	-7777	-7777	0	0	819	875	959	1099	0.0	0.0	4.8	10.9	26.5	3.7
3	48.0	25.2	36.6	5.2	3.5	4.0	6	4	2	-7777	-7777	-7777	576	636	727	881	0.0	-7777	13.6	3.9	23.5	0.6
4	61.3	36.6	48.9	4.9	3.1	3.8	59	44	27	10	3	1	240	285	359	492	0.0	0.3	23.5	0.3	9.6	0.0
5	71.8	48.5	60.1	4.1	3.2	3.4	206	163	109	45	13	6	46	66	104	196	0.0	0.7	30.6	0.0	0.8	0.0
6	81.6	59.2	70.4	3.4	2.6	2.8	464	406	322	194	96	67	2	4	10	32	0.1	4.7	30.0	0.0	0.0	0.0
7	85.8	63.9	74.9	3.0	2.2	2.5	615	553	460	310	173	128	0	-7777	-7777	5	0.5	9.1	31.0	0.0	0.0	0.0
8	83.2	61.5	72.4	3.3	2.6	2.8	538	477	386	241	122	84	-7777	1	3	14	0.2	5.6	31.0	0.0	0.0	0.0
9	75.1	51.0	63.0	3.6	2.6	2.7	271	224	161	81	30	17	29	42	70	139	0.0	1.5	29.7	0.0	0.5	0.0
10	62.6	37.8	50.2	3.6	2.8	2.7	56	38	20	6	1	1	205	249	324	465	0.0	-7777	26.9	0.2	8.2	0.0
11	46.3	24.9	35.6	6.3	4.0	4.9	5	3	1	-7777	0	0	587	645	733	882	0.0	0.0	11.8	4.6	23.4	0.4
12	33.3	13.8	23.6	6.2	5.8	5.9	0	0	0	0	0	0	975	1037	1130	1285	0.0	0.0	2.6	13.2	30.2	4.1
Summary	59.7	37.4	48.6	4.7	3.6	3.9	2220	1912	1488	887	438	304	4522	4945	5617	6843	0.8	21.9	238.0	48.2	153.4	14.9

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www.ncdc.noaa.gov

Station: **CLARKSON, NE US**

GHCND:USC00251660

Elev: 1549 ft. Lat: 41.724° N Lon: 97.126° 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	0.51	3.5	1.8	0.3	0.0	0.23	0.52	0.70
2	0.80	3.4	2.0	0.3	-7777	0.37	0.76	1.07
3	2.02	6.2	4.1	1.4	0.3	0.88	1.75	2.36
4	2.54	7.4	4.9	1.8	0.7	0.88	2.31	3.54
5	4.45	10.0	7.4	3.4	1.4	2.23	4.03	6.66
6	4.55	8.5	6.1	2.8	1.6	2.54	3.77	6.03
7	3.39	7.8	5.4	2.8	1.1	2.39	3.04	3.84
8	3.36	7.6	5.0	2.1	0.9	1.36	3.25	5.42
9	3.44	6.8	4.6	2.0	0.9	1.41	3.26	4.68
10	2.18	6.4	4.1	1.2	0.5	0.85	1.62	3.61
11	1.42	5.1	3.4	1.0	0.3	0.54	1.17	2.33
12	0.97	4.3	2.2	0.3	-7777	0.50	0.79	1.10
Summary	29.63	77.0	51.0	19.4	7.7	14.18	26.27	41.34

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Station: **CLARKSON, NE US**

GHCND:USC00251660
 Elev: 1549 ft. Lat: 41.724° N Lon: 97.126° 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	5.2	2.5	1.8	0.7	0.3	0.0	@	@	@	@	2.0	5.0	7.7
2	4.4	2.1	1.8	0.5	0.1	0.0	@	@	@	@	1.3	3.7	6.5
3	5.7	2.0	1.8	0.7	0.6	-7777	@	@	@	@	0.7	5.0	7.0
4	1.7	0.7	0.6	0.3	0.2	0.0	@	@	@	@	0.0	0.0	2.0
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	0.2	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.6	0.2	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	4.0	1.6	1.2	0.4	0.2	0.0	@	@	@	@	1.0	2.5	6.0
12	5.7	3.0	2.0	0.7	0.3	0.0	@	@	@	@	2.0	5.4	7.6
Summary	27.5	12.1	9.4	3.4	1.7	0.0	9999	9999	9999	9999	7.0	21.6	36.8

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-4444: year-round risk of frost-freeze

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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: **CLARKSON, NE US**

GHCND:USC00251660
Elev: 1549 ft. Lat: 41.724° N Lon: 97.126° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	14	92	301	625	912	1080	1002	692	340	77	5
45	1	4	45	194	473	762	925	848	545	220	39	1
50	-7777	1	18	113	330	612	770	693	402	122	16	-7777
55	0	-7777	6	59	206	464	615	538	271	56	5	0
60	0	-7777	2	27	109	322	460	386	161	20	1	0
Growing Degree Units for Corn (Monthly)												
50/86	7	16	77	197	376	595	727	667	432	216	58	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	110	411	1036	1948	3028	4030	4722	5062	5139	5144
45	1	5	50	244	717	1479	2404	3252	3797	4017	4056	4057
50	-7777	1	19	132	462	1074	1844	2537	2939	3061	3077	-7777
55	0	-7777	6	65	271	735	1350	1888	2159	2215	2220	2220
60	0	-7777	2	29	138	460	920	1306	1467	1487	1488	1488
Growing Degree Units for Corn (Monthly)												
50/86	7	23	100	297	673	1268	1995	2662	3094	3310	3368	3374

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: **CENTRAL CITY, NE US**

GHCND:USC00251560
 Elev: 1699 ft. Lat: 41.122° N Lon: 98.028° 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	37.4	16.2	26.8	7.0	5.2	5.9	-7777	-7777	-7777	0	0	0	874	936	1029	1184	0.0	0.0	5.4	10.7	29.3	3.2
2	41.9	20.0	30.9	7.0	5.4	6.0	1	-7777	-7777	-7777	0	0	674	730	813	953	0.0	0.0	8.5	6.9	24.2	2.0
3	53.3	29.1	41.2	5.3	3.7	4.1	15	10	4	1	-7777	-7777	443	499	587	739	0.0	-7777	18.5	2.0	18.7	0.4
4	65.6	39.9	52.7	4.8	3.1	3.7	93	70	44	17	5	2	160	197	262	385	0.0	0.5	26.5	0.0	6.0	0.0
5	74.5	51.5	63.0	3.6	2.6	2.9	270	221	155	71	24	13	22	35	62	133	0.0	1.2	30.9	0.0	0.2	0.0
6	83.4	61.0	72.2	3.4	2.4	2.8	516	457	369	232	119	84	-7777	1	4	16	0.1	5.5	30.0	0.0	0.0	0.0
7	87.1	65.6	76.3	2.9	2.3	2.4	662	600	507	354	209	158	0	0	-7777	2	0.5	10.8	31.0	0.0	0.0	0.0
8	85.4	63.8	74.6	3.4	2.6	2.9	607	546	453	303	168	123	-7777	-7777	1	6	0.2	9.0	31.0	0.0	0.0	0.0
9	79.1	54.6	66.8	3.6	2.3	2.7	368	315	240	135	61	40	13	19	35	79	0.0	3.4	29.8	0.0	0.2	0.0
10	66.9	42.0	54.4	3.7	2.5	2.6	108	80	48	17	4	2	125	159	220	344	0.0	0.3	28.5	0.2	4.1	0.0
11	50.7	28.9	39.8	6.4	4.0	4.9	10	6	2	-7777	0	0	466	522	608	756	0.0	0.0	15.8	2.6	18.6	0.2
12	38.2	18.4	28.3	6.6	5.5	5.9	-7777	0	0	0	0	0	827	889	982	1138	0.0	0.0	6.0	9.2	28.8	2.2
Summary	63.6	40.9	52.3	4.8	3.5	3.9	2650	2305	1822	1130	590	422	3604	3987	4603	5735	0.8	30.7	261.9	31.6	130.1	8.0

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

Station: **CENTRAL CITY, NE US**

GHCND:USC00251560

Elev: 1699 ft. Lat: 41.122° N Lon: 98.028° 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	0.70	4.0	2.0	0.3	0.0	0.41	0.54	1.00
2	0.75	4.4	2.3	0.2	-7777	0.34	0.67	1.09
3	1.91	6.5	4.0	1.3	0.3	0.93	1.69	2.87
4	2.84	7.7	5.0	2.0	0.8	1.57	2.64	3.81
5	4.69	10.0	7.0	3.1	1.2	3.01	4.62	5.98
6	3.98	8.9	6.4	2.8	1.1	2.23	3.94	5.91
7	3.58	7.7	5.6	2.4	1.2	1.83	3.30	5.27
8	3.14	6.3	4.7	2.1	0.9	1.77	3.01	4.43
9	2.87	6.0	4.1	2.0	0.8	1.15	2.65	3.84
10	2.10	5.8	4.3	1.4	0.6	1.07	1.76	2.95
11	1.41	5.1	2.9	1.0	0.2	0.42	1.16	2.06
12	0.81	4.6	2.2	0.5	0.1	0.28	0.65	1.00
Summary	28.78	77.0	50.5	19.1	7.2	15.01	26.63	40.21

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Station: **CENTRAL CITY, NE US**

GHCND:USC00251560

Elev: 1699 ft. Lat: 41.122° N Lon: 98.028° 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	5.6	3.2	1.7	0.7	0.3	-7777	13.9	8.8	4.3	1.3	1.8	4.3	9.1
2	6.1	3.0	1.7	0.5	0.1	-7777	11.8	7.6	4.5	0.5	2.1	5.4	10.0
3	5.4	2.0	1.3	0.6	0.3	0.1	4.4	2.7	1.6	0.5	1.0	3.2	7.7
4	1.3	0.5	0.3	0.2	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.8
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	-7777	-7777	-7777	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.3	0.2	0.2	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
11	2.7	1.7	0.9	0.3	0.1	0.0	2.5	1.0	0.7	0.3	0.2	0.6	5.8
12	5.2	3.3	1.8	0.5	0.1	0.0	11.1	5.6	3.1	1.4	1.1	4.0	6.6
Summary	27.3	14.0	7.9	3.0	1.1	0.1	44.4	26.0	14.4	4.0	6.2	17.5	40.0

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

Station: **CENTRAL CITY, NE US**

GHCND:USC00251560

Elev: 1699 ft. Lat: 41.122° N Lon: 98.028° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	38	157	397	713	966	1127	1073	806	459	128	15
45	4	13	85	272	559	816	972	917	656	323	69	3
50	-7777	3	39	168	408	666	817	762	509	203	31	-7777
55	-7777	1	15	93	270	516	662	607	368	108	10	-7777
60	-7777	-7777	4	44	155	369	507	453	240	48	2	0
Growing Degree Units for Corn (Monthly)												
50/86	20	35	118	253	436	641	767	724	516	284	88	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17	55	212	609	1322	2288	3415	4488	5294	5753	5881	5896
45	4	17	102	374	933	1749	2721	3638	4294	4617	4686	4689
50	-7777	3	42	210	618	1284	2101	2863	3372	3575	3606	-7777
55	-7777	1	16	109	379	895	1557	2164	2532	2640	2650	-7777
60	-7777	-7777	4	48	203	572	1079	1532	1772	1820	1822	1822
Growing Degree Units for Corn (Monthly)												
50/86	20	55	173	426	862	1503	2270	2994	3510	3794	3882	3898

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: **MOOREFIELD, NE US**

GHCND:USC00255655
 Elev: 2825 ft. Lat: 40.696° N Lon: 100.400° 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	13.4	25.9				0	0	0	0	0	0	902	964	1057	1212	0.0	0.0	7.6	11.1	30.4	3.2
2	42.0	16.4	29.2				-7777	-7777	0	0	0	0	722	778	862	1002	0.0	0.0	7.7	6.4	27.5	1.9
3	51.4	24.3	37.9				5	3	-7777	-7777	0	0	536	596	687	842	0.0	0.0	18.5	2.6	25.4	0.3
4	61.6	33.6	47.6				31	18	6	1	-7777	-7777	253	299	378	523	0.0	0.0	23.8	0.3	12.5	0.0
5	72.0	45.3	58.7				171	132	85	33	8	4	58	81	127	230	0.0	0.9	30.7	0.0	0.6	0.0
6	81.7	55.9	68.8				417	360	277	160	70	44	3	6	13	46	0.5	6.0	30.0	0.0	0.0	0.0
7	87.8	62.1	75.0				618	556	463	312	168	120	-7777	-7777	-7777	4	0.9	11.9	31.0	0.0	0.0	0.0
8	85.9	60.1	73.0				558	496	403	254	128	89	-7777	-7777	-7777	6	0.6	10.5	31.0	0.0	0.0	0.0
9	77.9	48.9	63.4				271	222	153	65	19	10	19	30	51	113	0.0	1.9	30.0	0.0	0.2	0.0
10	64.7	36.7	50.7				54	38	19	4	1	-7777	188	233	307	448	0.0	0.4	28.0	0.4	7.5	0.0
11	50.1	25.3	37.7				3	2	1	-7777	0	0	522	580	669	819	0.0	0.0	13.8	2.7	23.8	0.2
12	39.3	14.9	27.1				0	0	0	0	0	0	864	926	1019	1174	0.0	0.0	6.8	7.6	30.9	2.0
Summary	62.7	36.4	49.6	9999	9999	9999	2128	1827	1407	829	394	267	4067	4493	5170	6419	2.0	31.6	258.9	31.1	158.8	7.6

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

Station: **MOOREFIELD, NE US**

GHCND:USC0025655
Elev: 2825 ft. Lat: 40.696° N Lon: 100.400° 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	0.34	3.2	1.1	0.1	0.0	0.13	0.24	0.50
2	0.54	4.0	1.8	-7777	-7777	0.16	0.40	0.72
3	1.19	5.6	3.0	0.6	0.3	0.49	0.90	1.94
4	2.22	7.3	4.7	1.3	0.5	1.07	1.81	3.25
5	3.53	10.1	6.5	2.2	0.8	2.01	3.30	4.56
6	3.58	9.3	6.5	2.4	0.8	2.57	3.26	4.61
7	3.55	7.7	5.4	2.1	0.7	1.41	2.92	4.70
8	2.70	6.7	4.2	2.0	0.8	1.51	2.66	3.63
9	1.89	5.0	3.4	1.2	0.5	0.89	1.60	2.79
10	1.88	5.6	3.5	1.1	0.3	0.74	1.72	2.16
11	0.71	4.5	1.9	0.5	0.0	0.23	0.56	1.37
12	0.54	3.4	1.2	0.2	0.1	0.08	0.23	0.75
Summary	22.67	72.4	43.2	13.7	4.8	11.29	19.60	30.98

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Station: **MOOREFIELD, NE US**

GHCND:USC0025655
 Elev: 2825 ft. Lat: 40.696° N Lon: 100.400° 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	2.3	1.9	0.6	0.2	0.0	@	@	@	@	0.6	3.0	7.0
2	4.9	2.6	2.1	0.8	0.2	0.0	@	@	@	@	1.9	4.0	7.0
3	3.9	1.9	1.7	0.5	0.1	-7777	@	@	@	@	0.1	3.3	5.9
4	3.2	0.9	0.8	0.4	0.2	-7777	@	@	@	@	0.0	1.0	4.5
5	-7777	-7777	-7777	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	0.3	0.1	0.1	-7777	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	0.9	0.4	0.4	0.2	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	3.5	1.7	1.5	0.5	0.3	0.1	@	@	@	@	0.0	3.2	5.0
12	5.5	2.3	1.9	0.6	0.2	0.1	@	@	@	@	1.0	3.5	7.0
Summary	25.9	12.2	10.4	3.6	1.3	0.2	9999	9999	9999	9999	3.6	18.0	36.4

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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: **MOOREFIELD, NE US**

GHCND:USC00255655
Elev: 2825 ft. Lat: 40.696° N Lon: 100.400° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	19	97	268	579	864	1083	1023	702	348	86	8
45	3	6	46	164	428	714	928	867	553	222	39	1
50	1	2	18	85	289	564	773	713	407	120	13	-7777
55	0	-7777	5	31	171	417	618	558	271	54	3	0
60	0	0	-7777	6	85	277	463	403	153	19	1	0
Growing Degree Units for Corn (Monthly)												
50/86	26	33	96	196	352	544	715	667	442	239	76	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	33	130	398	977	1841	2924	3947	4649	4997	5083	5091
45	3	9	55	219	647	1361	2289	3156	3709	3931	3970	3971
50	1	3	21	106	395	959	1732	2445	2852	2972	2985	-7777
55	0	-7777	5	36	207	624	1242	1800	2071	2125	2128	2128
60	0	0	-7777	6	91	368	831	1234	1387	1406	1407	1407
Growing Degree Units for Corn (Monthly)												
50/86	26	59	155	351	703	1247	1962	2629	3071	3310	3386	3403

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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

9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

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

Station: **RED CLOUD, NE US**

GHCND:USC00257070
 Elev: 1719 ft. Lat: 40.098° N Lon: 98.520° 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	36.8	12.1	24.5	6.4	4.7	5.2	0	0	0	0	0	0	947	1009	1102	1257	0.0	0.0	5.4	11.2	30.8	4.4
2	41.3	15.8	28.5	6.8	5.2	5.7	-7777	-7777	-7777	0	0	0	741	797	880	1020	0.0	0.0	8.1	7.0	26.6	2.9
3	52.1	24.8	38.5	5.0	4.0	3.9	8	5	2	-7777	-7777	0	521	580	670	823	0.0	-7777	16.9	2.4	24.2	0.6
4	63.8	35.4	49.6	4.5	2.9	3.4	59	42	23	7	1	-7777	221	264	335	469	0.0	0.4	25.6	0.1	10.9	0.0
5	73.5	47.7	60.6	3.7	2.9	2.9	214	171	115	49	14	7	41	60	97	186	0.0	1.4	30.8	0.0	1.2	0.0
6	84.3	58.5	71.4	3.6	2.8	3.0	494	435	349	218	113	81	2	3	7	26	0.5	7.7	30.0	0.0	0.0	0.0
7	90.0	64.1	77.0	3.2	2.3	2.4	683	621	528	375	231	180	0	-7777	-7777	2	3.3	15.7	31.0	0.0	0.0	0.0
8	87.6	61.4	74.5	4.0	2.7	3.1	604	543	450	302	171	128	-7777	-7777	1	8	2.3	12.0	31.0	0.0	0.0	0.0
9	79.2	50.4	64.8	3.6	2.9	2.8	317	267	199	107	47	31	23	33	55	113	0.2	4.5	29.8	0.0	0.9	0.0
10	65.9	36.8	51.4	3.8	3.1	2.7	70	50	29	9	3	1	184	226	297	432	0.0	0.3	28.1	0.2	9.9	-7777
11	50.6	24.1	37.4	5.8	3.6	4.1	5	3	1	-7777	-7777	0	534	592	681	830	0.0	0.0	16.0	2.3	24.4	0.3
12	38.0	14.3	26.1	6.4	5.1	5.5	0	0	0	0	0	0	894	956	1049	1204	0.0	0.0	5.6	9.8	30.5	3.2
Summary	63.6	37.1	50.4	4.7	3.5	3.7	2454	2137	1696	1067	580	428	4108	4520	5174	6370	6.3	42.0	258.3	33.0	159.4	11.4

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1981-2010**

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

Station: **RED CLOUD, NE US**

GHCND:USC00257070

Elev: 1719 ft. Lat: 40.098° N Lon: 98.520° 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	0.50	3.1	1.5	0.1	-7777	0.07	0.44	0.67
2	0.57	3.3	1.9	0.3	0.0	0.17	0.54	0.78
3	1.76	5.3	3.5	1.1	0.3	0.67	1.49	2.57
4	2.20	6.9	4.4	1.5	0.5	1.44	2.06	2.80
5	4.54	10.2	7.3	3.1	1.2	2.99	4.27	7.12
6	3.38	9.3	6.4	2.3	1.0	1.98	3.67	4.32
7	3.93	7.5	5.5	2.5	1.1	1.84	3.57	4.78
8	3.20	6.8	4.9	2.0	0.9	1.85	2.91	4.29
9	2.19	5.5	3.9	1.2	0.4	1.08	1.80	2.96
10	1.97	5.6	3.9	1.2	0.5	0.61	1.51	2.69
11	1.14	4.3	2.7	0.6	0.3	0.43	0.80	1.58
12	0.65	3.0	1.7	0.4	0.1	0.20	0.46	0.94
Summary	26.03	70.8	47.6	16.3	6.3	13.33	23.52	35.50

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GHCND:USC00257070

Elev: 1719 ft. Lat: 40.098° N Lon: 98.520° 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	2.8	2.0	0.5	0.1	0.0	10.9	5.6	2.4	0.4	1.2	3.8	7.2
2	4.4	2.5	1.8	0.7	0.2	0.0	8.7	5.2	2.6	0.5	1.2	4.0	7.4
3	3.2	1.3	0.9	0.4	0.2	0.1	3.1	1.9	1.1	0.2	0.0	1.7	4.5
4	1.0	0.4	0.3	0.1	0.1	0.0	0.5	0.3	0.2	-7777	0.0	0.0	0.5
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	0.1	0.1	0.1	-7777	0.0	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	0.7	0.2	0.1	0.1	-7777	-7777	0.3	0.2	0.2	0.2	0.0	0.0	0.0
11	1.9	1.2	0.8	0.4	0.1	0.0	2.4	1.2	0.4	0.0	0.0	0.4	3.8
12	3.6	2.0	1.6	0.5	0.1	0.0	8.3	4.6	1.8	0.8	0.3	3.0	6.0
Summary	19.6	10.5	7.6	2.7	0.8	0.1	34.3	19.0	8.7	2.1	2.7	12.9	29.4

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Station: **RED CLOUD, NE US**

GHCND:USC00257070
Elev: 1719 ft. Lat: 40.098° N Lon: 98.520° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	22	110	313	639	942	1148	1069	744	370	86	6
45	1	6	55	201	486	792	993	914	596	245	42	1
50	-7777	1	23	116	342	642	838	759	452	144	16	-7777
55	0	-7777	8	59	214	494	683	604	317	70	5	0
60	0	-7777	2	23	115	349	528	450	199	29	1	0
Growing Degree Units for Corn (Monthly)												
50/86	18	36	108	224	395	610	752	697	479	263	87	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	28	138	451	1090	2032	3180	4249	4993	5363	5449	5455
45	1	7	62	263	749	1541	2534	3448	4044	4289	4331	4332
50	-7777	1	24	140	482	1124	1962	2721	3173	3317	3333	-7777
55	0	-7777	8	67	281	775	1458	2062	2379	2449	2454	2454
60	0	-7777	2	25	140	489	1017	1467	1666	1695	1696	1696
Growing Degree Units for Corn (Monthly)												
50/86	18	54	162	386	781	1391	2143	2840	3319	3582	3669	3685

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: **HARRISON 9 NE, NE US**

GHCND:USC00253618
 Elev: 4029 ft. Lat: 42.800° N Lon: 103.787° 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	38.7	14.3	26.5				0	0	0	0	0	0	884	946	1039	1194	0.0	0.0	7.4	8.7	29.3	5.9
2	41.2	15.5	28.4				-7777	0	0	0	0	0	746	802	886	1026	0.0	0.0	6.3	6.6	27.3	2.3
3	50.2	23.1	36.7				5	2	-7777	-7777	0	0	574	633	724	879	0.0	0.0	15.6	3.2	25.4	0.6
4	58.6	31.6	45.1				21	13	6	1	-7777	0	318	370	453	598	0.0	0.0	22.1	0.6	14.7	0.0
5	68.1	41.8	55.0				99	70	40	13	3	2	101	133	196	325	0.0	0.6	29.4	0.0	2.7	0.0
6	78.2	51.1	64.6				301	249	178	84	32	21	12	20	38	95	0.1	2.5	30.0	0.0	0.0	0.0
7	86.5	58.2	72.4				538	476	385	240	118	81	1	1	3	13	0.8	10.4	31.0	0.0	0.0	0.0
8	86.9	55.1	71.0				496	435	345	209	99	64	1	1	4	23	0.6	12.9	31.0	0.0	0.0	0.0
9	76.6	46.2	61.4				228	185	129	60	21	13	37	53	88	168	0.0	3.1	29.6	0.0	0.7	0.0
10	62.4	33.8	48.1				39	24	11	1	-7777	0	253	300	380	525	0.0	0.0	25.0	0.4	11.7	0.0
11	48.9	22.7	35.8				3	2	1	0	0	0	579	638	727	876	0.0	0.0	14.1	3.2	25.2	0.5
12	38.4	13.1	25.8				0	0	0	0	0	0	906	968	1061	1216	0.0	0.0	6.0	9.1	30.5	4.5
Summary	61.2	33.9	47.6	9999	9999	9999	1730	1456	1095	608	273	181	4412	4865	5599	6938	1.5	29.5	247.5	31.8	167.5	13.8

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

Station: **HARRISON 9 NE, NE US**

GHCND:USC00253618
 Elev: 4029 ft. Lat: 42.800° N Lon: 103.787° 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	0.33	@	@	@	@			
2	0.42	@	@	@	@			
3	0.89	@	@	@	@			
4	1.81	@	@	@	@			
5	2.66	@	@	@	@			
6	2.84	@	@	@	@			
7	2.01	@	@	@	@			
8	1.48	@	@	@	@			
9	1.43	@	@	@	@			
10	1.28	@	@	@	@			
11	0.57	@	@	@	@			
12	0.38	@	@	@	@			
Summary	16.10	9999	9999	9999	9999	9999	9999	9999

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Station: **HARRISON 9 NE, NE US**

GHCND:USC00253618
Elev: 4029 ft. Lat: 42.800° N Lon: 103.787° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	12	92	211	469	739	1002	960	642	287	76	12
45	3	3	46	120	326	590	847	805	495	178	33	3
50	-7777	-7777	17	57	198	441	692	650	355	95	10	-7777
55	0	-7777	5	21	99	301	538	496	228	39	3	0
60	0	0	-7777	6	40	178	385	345	129	11	1	0
Growing Degree Units for Corn (Monthly)												
50/86	19	19	90	160	290	455	645	606	408	211	74	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	27	119	330	799	1538	2540	3500	4142	4429	4505	4517
45	3	6	52	172	498	1088	1935	2740	3235	3413	3446	3449
50	-7777	-7777	17	74	272	713	1405	2055	2410	2505	2515	-7777
55	0	-7777	5	26	125	426	964	1460	1688	1727	1730	1730
60	0	0	-7777	6	46	224	609	954	1083	1094	1095	1095
Growing Degree Units for Corn (Monthly)												
50/86	19	38	128	288	578	1033	1678	2284	2692	2903	2977	2995

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: **BEEMER, NE US**

GHCND:USC00250680

Elev: 1358 ft. Lat: 41.932° N Lon: 96.811° 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	0.61	4.7	1.6	0.3	0.1	0.28	0.52	0.99
2	0.74	4.3	1.9	0.3	0.0	0.38	0.74	1.07
3	1.86	6.7	4.9	1.4	0.4	0.85	1.73	2.73
4	2.99	8.6	5.9	2.1	0.6	1.74	2.51	4.22
5	4.02	10.7	8.3	3.0	1.1	2.78	4.11	5.41
6	4.71	9.4	7.1	2.9	1.4	2.64	4.62	5.96
7	3.64	8.4	5.8	2.6	1.2	1.93	2.96	4.43
8	3.99	7.8	5.2	2.2	0.9	2.27	3.63	5.70
9	2.85	6.7	4.9	1.6	0.9	1.49	2.68	4.05
10	2.51	6.2	3.8	1.3	0.5	0.97	1.93	3.24
11	1.44	5.2	3.3	1.0	0.3	0.54	1.20	2.09
12	0.86	5.1	2.2	0.4	0.1	0.28	0.68	0.95
Summary	30.22	83.8	54.9	19.1	7.5	16.15	27.31	40.84

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Station: **BEEMER, NE US**

GHCND:USC00250680
 Elev: 1358 ft. Lat: 41.932° N Lon: 96.811° 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	3.7	3.3	1.8	0.5	0.1	0.0	@	@	@	@	1.0	2.7	5.0
2	4.1	2.5	1.8	0.7	0.3	0.0	@	@	@	@	1.0	4.2	7.0
3	5.6	1.9	1.6	0.8	0.3	-7777	@	@	@	@	0.5	4.5	10.0
4	1.3	0.5	0.4	0.2	0.2	0.0	@	@	@	@	0.0	0.0	1.5
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	0.3	0.2	0.2	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	3.1	1.7	1.3	0.3	0.1	0.1	@	@	@	@	1.0	2.0	4.0
12	7.1	3.3	2.4	0.7	0.3	0.1	@	@	@	@	5.0	7.0	9.5
Summary	25.2	13.4	9.5	3.3	1.3	0.2	9999	9999	9999	9999	8.5	20.4	37.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **BENNINGTON 3 WSW, NE US**

GHCND:USC00250781

Elev: 1247 ft. Lat: 41.354° N Lon: 96.209° 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	0.71	5.4	2.0	0.3	0.0	0.37	0.69	1.03
2	0.85	5.9	2.3	0.2	0.1	0.50	0.73	0.96
3	2.01	8.2	4.4	1.4	0.3	0.90	1.77	3.00
4	3.03	9.7	6.2	1.9	0.7	1.72	2.85	3.98
5	4.56	11.2	7.6	2.5	0.7	2.50	4.24	5.46
6	4.87	10.1	7.2	3.4	1.6	2.15	4.44	7.23
7	3.94	9.5	5.9	3.0	1.1	2.47	3.26	4.36
8	3.44	8.4	5.5	2.1	1.0	1.57	2.70	5.18
9	3.15	7.8	5.2	2.2	0.8	1.79	2.56	4.12
10	2.46	7.4	4.8	1.5	0.6	1.20	1.99	3.79
11	1.43	5.9	3.0	1.0	0.3	0.76	1.39	1.92
12	1.11	6.9	2.9	0.7	0.1	0.60	0.87	1.42
Summary	31.56	96.4	57.0	20.2	7.3	16.53	27.49	42.45

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

Station: **BENNINGTON 3 WSW, NE US**

GHCND:USC00250781
 Elev: 1247 ft. Lat: 41.354° N Lon: 96.209° 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	5.7	4.3	1.7	0.7	0.2	0.0	11.6	5.8	4.0	1.4	1.0	5.4	8.3
2	7.9	4.5	2.1	0.8	0.4	0.0	9.2	5.9	3.5	1.0	4.6	8.1	11.4
3	6.0	2.7	1.4	0.6	0.4	0.1	3.5	2.0	1.1	0.5	0.7	5.0	11.2
4	2.5	0.7	0.3	0.3	0.1	0.1	0.4	0.3	-7777	0.0	0.0	0.0	1.2
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	1.2	0.4	0.2	0.1	0.1	-7777	0.3	0.2	0.1	-7777	0.0	0.0	0.0
11	2.7	1.9	1.2	0.3	0.1	0.0	0.7	-7777	0.0	0.0	0.2	1.5	3.6
12	6.6	4.9	2.0	0.7	0.2	-7777	8.0	4.9	3.1	1.1	2.6	4.7	9.2
Summary	32.6	19.4	8.9	3.5	1.5	0.2	33.7	19.1	11.8	4.0	9.1	24.7	44.9

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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: **CROFTON, NE US**

GHCND:USC00252037

Elev: 1401 ft. Lat: 42.736° N Lon: 97.497° 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	30.9	10.0	20.4	6.9	6.9	6.8	0	0	0	0	0	0	1071	1133	1226	1381	0.0	0.0	3.0	16.0	30.5	7.5
2	35.5	14.2	24.9	6.9	6.2	6.4	-7777	-7777	-7777	-7777	0	0	844	900	984	1124	0.0	0.0	5.3	10.9	26.4	4.3
3	46.5	24.1	35.3	5.5	3.8	4.4	6	3	1	-7777	-7777	-7777	617	676	767	921	0.0	0.0	12.5	4.6	23.7	0.8
4	59.9	36.2	48.0	4.9	3.1	3.7	49	36	23	9	2	1	258	305	381	517	0.0	0.2	23.6	0.5	10.6	0.0
5	70.8	48.5	59.7	3.4	3.2	3.1	194	154	104	47	15	8	50	72	115	212	0.0	0.9	30.4	0.0	0.4	0.0
6	80.5	58.8	69.6	3.5	2.6	2.9	442	384	300	174	80	54	2	4	11	35	-7777	3.5	30.0	0.0	0.0	0.0
7	85.3	63.8	74.5	3.2	2.4	2.7	606	544	451	300	166	122	-7777	-7777	-7777	5	0.5	7.6	31.0	0.0	0.0	0.0
8	83.4	61.8	72.6	3.2	2.5	2.7	545	484	392	247	125	86	-7777	-7777	2	12	-7777	5.3	31.0	0.0	0.0	0.0
9	75.4	52.1	63.8	3.7	2.6	2.8	285	237	173	91	38	24	23	35	61	129	0.0	1.7	29.8	0.0	0.4	0.0
10	62.0	38.4	50.2	3.8	2.8	2.9	65	47	27	10	2	1	214	258	331	468	0.0	0.2	25.4	0.4	8.1	0.0
11	45.5	25.0	35.3	6.7	4.4	5.4	6	4	1	-7777	0	0	599	656	744	893	0.0	0.0	11.0	5.6	22.4	0.6
12	32.4	12.8	22.6	7.1	6.2	6.5	-7777	-7777	0	0	0	0	1004	1066	1159	1314	0.0	0.0	2.9	14.0	30.5	5.5
Summary	59.0	37.1	48.1	4.9	3.9	4.2	2198	1893	1472	878	428	296	4682	5105	5781	7011	0.5	19.4	235.9	52.0	153.0	18.7

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

Station: **CROFTON, NE US**

GHCND:USC00252037

Elev: 1401 ft. Lat: 42.736° N Lon: 97.497° 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	0.57	6.0	1.9	0.1	0.0	0.34	0.51	0.75
2	0.77	5.1	2.2	0.3	0.1	0.37	0.63	1.12
3	1.82	6.7	4.0	0.9	0.2	0.85	1.53	2.54
4	3.69	9.7	6.6	2.2	0.8	1.91	3.53	5.20
5	3.90	10.6	7.0	2.8	0.9	2.51	3.63	5.22
6	4.32	10.5	7.4	2.8	1.1	2.62	3.86	5.30
7	3.26	8.5	5.2	1.9	1.0	1.36	2.67	4.78
8	3.13	8.1	5.7	2.2	1.0	1.67	2.72	4.53
9	3.04	7.4	5.0	2.0	0.8	1.32	2.68	4.69
10	2.44	7.0	4.4	1.4	0.6	0.85	1.81	4.01
11	1.40	5.3	2.9	0.8	0.2	0.53	1.06	1.92
12	0.87	5.9	2.1	0.4	0.1	0.32	0.71	1.02
Summary	29.21	90.8	54.4	17.8	6.8	14.65	25.34	41.08

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Station: **CROFTON, NE US**

GHCND:USC00252037

Elev: 1401 ft. Lat: 42.736° N Lon: 97.497° 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	6.0	5.6	2.1	0.7	0.2	0.0	17.0	10.2	4.1	1.5	3.5	6.5	7.8
2	6.4	4.9	2.1	0.7	0.2	0.1	12.5	9.2	6.8	2.6	3.6	5.0	9.6
3	6.6	4.0	2.0	0.8	0.3	0.0	8.5	5.9	3.5	0.6	2.2	5.2	9.7
4	4.2	2.1	1.2	0.5	0.2	0.0	2.1	1.2	0.6	0.0	0.7	2.1	7.6
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	0.7	0.7	0.3	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.7
11	5.8	3.1	1.5	0.5	0.4	0.0	5.9	3.1	1.7	0.2	1.5	2.8	12.0
12	7.2	5.7	2.1	0.7	0.3	0.0	16.5	9.2	5.0	0.7	2.4	5.7	10.6
Summary	36.9	26.1	11.3	3.9	1.6	0.1	63.0	38.9	21.7	5.6	13.9	27.3	58.0

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Asheville, North Carolina 28801
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Station: CROFTON, NE US

GHCND:USC00252037

Elev: 1401 ft. Lat: 42.736° N Lon: 97.497° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	17	86	278	609	889	1071	1011	712	344	79	5
45	1	5	42	174	457	739	916	855	564	225	42	1
50	-7777	1	18	98	315	589	761	700	419	130	19	-7777
55	0	-7777	6	49	194	442	606	545	285	65	6	-7777
60	0	-7777	1	23	104	300	451	392	173	27	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	18	68	178	360	579	724	677	444	213	56	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	23	109	387	996	1885	2956	3967	4679	5023	5102	5107
45	1	6	48	222	679	1418	2334	3189	3753	3978	4020	4021
50	-7777	1	19	117	432	1021	1782	2482	2901	3031	3050	-7777
55	0	-7777	6	55	249	691	1297	1842	2127	2192	2198	-7777
60	0	-7777	1	24	128	428	879	1271	1444	1471	1472	1472
Growing Degree Units for Corn (Monthly)												
50/86	8	26	94	272	632	1211	1935	2612	3056	3269	3325	3332

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: **MINDEN, NE US**

GHCND:USC00255565
 Elev: 2159 ft. Lat: 40.516° N Lon: 98.951° 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	13.9	25.5	6.6	4.7	5.3	0	0	0	0	0	0	914	976	1069	1224	0.0	0.0	5.6	10.7	30.5	4.1
2	41.3	17.3	29.3	7.0	5.2	5.8	-7777	-7777	-7777	0	0	0	720	776	859	999	0.0	0.0	8.2	7.9	25.9	2.9
3	52.0	26.2	39.1	5.3	3.6	4.0	8	5	2	-7777	-7777	0	501	560	650	803	0.0	0.0	18.0	2.8	22.4	0.5
4	63.4	36.2	49.8	4.8	3.0	3.5	58	42	24	8	1	1	214	258	330	464	0.0	0.2	25.4	0.2	10.3	0.0
5	72.8	48.8	60.8	3.5	2.6	2.7	217	172	115	47	13	6	37	55	90	178	0.0	0.7	30.8	0.0	0.7	0.0
6	82.9	58.5	70.7	3.5	2.8	2.9	472	414	328	198	95	64	2	3	7	27	0.2	6.0	30.0	0.0	0.0	0.0
7	88.2	64.1	76.1	2.9	2.1	2.3	655	593	501	348	204	152	0	-7777	-7777	2	1.1	11.9	31.0	0.0	0.0	0.0
8	85.7	61.7	73.7	3.7	2.5	3.0	580	518	426	279	147	106	-7777	-7777	1	9	0.4	9.1	31.0	0.0	0.0	0.0
9	78.1	51.3	64.7	3.4	2.9	2.8	311	261	192	99	39	24	20	30	51	108	-7777	2.5	29.8	0.0	0.5	0.0
10	65.8	39.0	52.4	3.8	2.5	2.5	80	56	31	10	2	1	161	199	267	400	0.0	0.4	28.0	0.3	6.8	0.0
11	50.2	26.0	38.1	6.2	3.9	4.7	5	3	1	-7777	0	0	512	570	658	807	0.0	0.0	15.5	2.8	21.8	0.3
12	37.2	15.7	26.5	6.8	5.2	5.8	0	0	0	0	0	0	885	947	1040	1195	0.0	0.0	5.5	10.2	30.1	3.1
Summary	62.9	38.2	50.6	4.8	3.4	3.8	2386	2064	1620	989	501	354	3966	4374	5022	6216	1.7	30.8	258.8	34.9	149.0	10.9

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www.ncdc.noaa.gov

Station: **MINDEN, NE US**

GHCND:USC00255565

Elev: 2159 ft. Lat: 40.516° N Lon: 98.951° 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	0.47	3.8	1.4	0.1	0.0	0.24	0.37	0.77
2	0.50	4.0	1.6	0.1	0.0	0.17	0.51	0.73
3	1.74	6.2	3.4	0.9	0.4	0.53	1.48	2.23
4	2.04	7.5	4.4	1.2	0.4	1.14	1.78	2.69
5	4.55	11.0	7.4	3.2	1.1	2.89	4.25	5.61
6	3.94	9.7	6.9	2.5	1.2	2.48	3.77	4.74
7	3.70	8.2	5.6	2.5	1.1	1.77	2.93	5.72
8	3.35	8.2	5.2	2.1	1.0	2.11	3.16	4.52
9	2.20	6.3	4.1	1.3	0.5	1.10	1.97	2.98
10	2.14	6.0	3.7	1.5	0.6	0.95	1.49	2.97
11	1.08	4.5	2.6	0.7	0.2	0.35	0.77	1.61
12	0.51	3.6	1.5	0.2	0.0	0.11	0.40	0.68
Summary	26.22	79.0	47.8	16.3	6.5	13.84	22.88	35.25

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **MINDEN, NE US**

GHCND:USC00255565

Elev: 2159 ft. Lat: 40.516° N Lon: 98.951° 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	5.7	3.2	1.9	0.6	0.3	0.0	13.0	6.8	3.5	0.6	2.0	5.0	9.7
2	6.3	2.8	2.1	0.5	0.4	-7777	9.9	6.0	3.9	1.1	1.9	5.0	10.0
3	3.9	2.0	1.2	0.4	0.3	0.1	4.1	2.3	1.5	0.7	0.9	2.7	5.5
4	2.0	0.9	0.8	0.3	0.1	0.0	0.9	0.4	0.1	0.0	0.0	0.0	1.5
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	0.3	0.1	0.1	0.1	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
10	0.5	0.3	0.1	0.1	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0
11	3.6	1.6	1.3	0.4	0.1	-7777	3.1	1.5	0.6	-7777	0.2	2.7	5.5
12	4.1	3.0	1.9	0.6	0.1	0.0	10.4	5.2	2.3	0.7	1.0	3.6	6.5
Summary	26.4	13.9	9.4	3.0	1.4	0.1	41.9	22.5	12.0	3.1	6.0	19.0	38.7

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

Station: **MINDEN, NE US**

GHCND:USC00255565

Elev: 2159 ft. Lat: 40.516° N Lon: 98.951° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	29	123	320	645	921	1120	1044	741	400	103	9
45	2	9	61	206	492	771	965	890	593	271	52	1
50	-7777	2	26	118	346	621	810	735	448	162	20	-7777
55	0	-7777	8	58	217	472	655	580	311	80	5	0
60	0	-7777	2	24	115	328	501	426	192	31	1	0
Growing Degree Units for Corn (Monthly)												
50/86	19	36	108	220	391	599	749	693	472	263	85	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	39	162	482	1127	2048	3168	4212	4953	5353	5456	5465
45	2	11	72	278	770	1541	2506	3396	3989	4260	4312	4313
50	-7777	2	28	146	492	1113	1923	2658	3106	3268	3288	-7777
55	0	-7777	8	66	283	755	1410	1990	2301	2381	2386	2386
60	0	-7777	2	26	141	469	970	1396	1588	1619	1620	1620
Growing Degree Units for Corn (Monthly)												
50/86	19	55	163	383	774	1373	2122	2815	3287	3550	3635	3650

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: **LYNCH, NE US**

GHCND:USC00255040

Elev: 1391 ft. Lat: 42.829° N Lon: 98.458° 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	33.3	7.5	20.4	7.0	6.3	6.5	0	0	0	0	0	0	1073	1135	1228	1383	0.0	0.0	4.1	14.3	30.9	8.8
2	37.6	11.9	24.7	7.4	6.7	6.7	-7777	-7777	-7777	0	0	0	847	903	987	1127	0.0	0.0	6.3	10.1	27.1	5.3
3	48.5	22.4	35.4	5.6	4.1	4.6	5	3	1	-7777	0	0	611	671	762	916	0.0	0.0	14.4	4.1	25.6	1.2
4	61.0	33.4	47.2	5.0	3.1	3.7	43	31	18	6	1	1	277	325	402	540	0.0	0.4	23.8	0.4	13.8	0.0
5	71.8	45.6	58.7	3.4	2.9	2.8	176	138	91	39	12	6	61	85	131	234	0.0	1.2	30.3	0.0	2.1	0.0
6	81.2	55.8	68.5	3.5	3.3	3.2	409	352	272	155	72	49	4	7	17	50	0.3	4.8	30.0	0.0	0.0	0.0
7	87.8	61.8	74.8	4.1	2.7	3.2	614	552	459	311	181	138	-7777	-7777	1	8	2.1	11.9	31.0	0.0	0.0	0.0
8	86.3	59.7	73.0	3.3	2.5	2.7	559	498	407	264	144	105	1	2	5	16	1.3	10.5	31.0	0.0	0.0	0.0
9	77.2	48.6	62.9	4.1	2.9	3.1	268	222	162	86	38	25	31	45	75	149	0.1	3.5	29.8	0.0	1.1	0.0
10	64.0	34.6	49.3	4.0	2.7	2.7	51	36	19	6	1	1	228	275	351	492	0.0	0.5	26.5	0.3	12.0	0.0
11	47.6	21.7	34.6	6.9	3.8	5.0	3	1	-7777	-7777	0	0	614	672	761	910	0.0	0.0	13.6	4.8	25.8	1.3
12	34.7	10.4	22.6	7.2	5.7	6.3	0	0	0	0	0	0	1006	1068	1161	1316	0.0	0.0	4.1	12.2	30.8	5.9
Summary	60.9	34.5	47.7	5.1	3.9	4.2	2128	1833	1429	867	449	325	4753	5188	5881	7141	3.8	32.8	244.9	46.2	169.2	22.5

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

Station: **LYNCH, NE US**

GHCND:USC00255040

Elev: 1391 ft. Lat: 42.829° N Lon: 98.458° 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	0.50	3.3	1.5	0.4	-7777	0.17	0.36	0.77
2	0.64	3.1	1.8	0.3	0.1	0.28	0.63	0.84
3	1.66	4.8	3.7	0.9	0.3	0.76	1.21	2.57
4	3.12	7.4	5.4	2.3	0.8	1.55	2.78	4.26
5	3.68	8.2	6.5	2.5	0.9	2.64	3.49	4.51
6	3.44	7.7	6.3	2.5	1.0	2.17	2.97	4.32
7	2.87	6.7	5.0	1.7	0.8	1.40	2.16	3.78
8	2.79	6.2	4.7	1.8	0.7	1.43	2.40	3.82
9	2.69	5.4	3.9	1.7	0.8	1.26	1.91	3.56
10	2.20	4.8	3.7	1.5	0.7	0.86	1.74	3.35
11	1.00	3.8	2.3	0.5	0.1	0.38	0.81	1.39
12	0.58	3.1	1.5	0.2	0.1	0.19	0.43	0.60
Summary	25.17	64.5	46.3	16.3	6.3	13.09	20.89	33.77

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Station: **LYNCH, NE US**

GHCND:USC00255040
 Elev: 1391 ft. Lat: 42.829° N Lon: 98.458° 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	6.0	2.9	2.3	1.1	0.3	0.1	13.3	10.0	5.5	2.0	3.0	6.5	8.0
2	6.1	2.3	2.1	0.8	0.3	0.1	10.6	7.8	6.1	2.5	2.0	5.0	6.0
3	6.6	2.8	2.5	1.1	0.5	0.1	6.5	4.3	2.7	1.2	2.5	6.0	9.0
4	4.0	0.9	0.9	0.5	0.4	-7777	1.4	0.7	0.3	-7777	0.0	0.5	9.0
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	0.7	0.3	0.3	0.1	-7777	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
11	4.2	2.0	1.7	0.7	0.3	-7777	3.7	2.2	1.0	-7777	0.0	3.0	7.0
12	7.4	2.5	2.3	0.9	0.3	-7777	11.6	8.7	5.1	2.0	1.2	6.0	12.5
Summary	35.0	13.7	12.1	5.2	2.1	0.3	47.4	33.9	20.7	7.7	8.7	27.0	51.5

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Station: **LYNCH, NE US**

GHCND:USC00255040
Elev: 1391 ft. Lat: 42.829° N Lon: 98.458° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	14	85	260	580	855	1078	1023	687	318	69	3
45	1	3	40	160	430	705	923	868	540	201	33	1
50	0	-7777	16	88	292	556	769	713	397	111	12	-7777
55	0	-7777	5	43	176	409	614	559	268	51	3	0
60	0	-7777	1	18	91	272	459	407	162	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	15	26	85	191	361	546	705	667	440	234	74	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	18	103	363	943	1798	2876	3899	4586	4904	4973	4976
45	1	4	44	204	634	1339	2262	3130	3670	3871	3904	3905
50	0	-7777	16	104	396	952	1721	2434	2831	2942	2954	-7777
55	0	-7777	5	48	224	633	1247	1806	2074	2125	2128	2128
60	0	-7777	1	19	110	382	841	1248	1410	1429	-7777	1429
Growing Degree Units for Corn (Monthly)												
50/86	15	41	126	317	678	1224	1929	2596	3036	3270	3344	3357

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: EWING, NE US

GHCND:USC00252805
 Elev: 1850 ft. Lat: 42.261° N Lon: 98.342° 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	11.8	23.2	6.9	6.0	6.3	0	0	0	0	0	0	986	1048	1141	1296	0.0	0.0	4.2	12.3	30.4	5.9
2	39.0	15.7	27.4	7.3	6.1	6.5	-7777	-7777	-7777	0	0	0	774	830	914	1054	0.0	0.0	7.1	8.8	26.2	3.8
3	50.3	25.3	37.8	5.5	3.5	4.2	7	4	1	-7777	-7777	0	540	599	689	843	0.0	0.0	16.4	3.3	23.2	0.8
4	62.7	36.4	49.6	5.0	2.9	3.7	60	44	27	10	3	1	224	268	341	474	0.0	0.4	25.1	0.2	10.1	0.0
5	72.8	47.7	60.2	3.4	2.9	2.9	205	162	107	44	13	6	42	61	99	192	0.0	0.9	30.8	0.0	1.2	0.0
6	82.0	57.4	69.7	3.2	2.9	2.9	443	384	300	174	79	53	2	3	9	33	0.2	4.0	30.0	0.0	0.0	0.0
7	86.8	62.6	74.7	3.2	2.4	2.6	611	549	456	306	170	126	0	-7777	-7777	5	0.7	10.1	31.0	0.0	0.0	0.0
8	85.1	60.6	72.8	3.1	2.3	2.6	554	492	400	255	131	91	-7777	1	2	12	0.1	7.5	31.0	0.0	0.0	0.0
9	77.2	50.4	63.8	3.4	2.3	2.5	288	239	174	88	34	20	24	35	60	124	0.0	2.3	29.8	0.0	0.9	0.0
10	64.6	37.8	51.2	3.9	2.4	2.5	65	46	25	7	1	-7777	183	226	298	434	0.0	0.2	27.6	0.2	8.6	0.0
11	47.4	25.0	36.2	6.4	4.1	5.0	4	2	1	-7777	0	0	568	626	715	864	0.0	0.0	13.0	4.1	22.5	0.8
12	35.1	13.7	24.4	6.8	6.1	6.3	0	0	0	0	0	0	948	1010	1103	1258	0.0	0.0	4.3	12.0	29.8	4.6
Summary	61.5	37.0	49.3	4.8	3.7	4.0	2237	1922	1491	884	431	297	4291	4707	5371	6589	1.0	25.4	250.3	40.9	152.9	15.9

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Station: **EWING, NE US**

GHCND:USC00252805

Elev: 1850 ft. Lat: 42.261° N Lon: 98.342° 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	0.62	3.5	2.0	0.3	0.1	0.26	0.48	0.80
2	0.87	3.6	2.3	0.4	0.2	0.34	0.63	0.98
3	1.82	5.3	3.7	1.2	0.4	0.93	1.30	2.46
4	2.93	8.9	5.9	2.0	0.6	1.72	2.74	4.17
5	3.78	9.9	7.1	2.6	1.1	2.83	3.24	4.26
6	4.14	10.0	6.8	2.6	1.2	2.86	3.52	5.14
7	3.01	8.1	5.5	2.2	0.8	1.80	2.78	3.71
8	3.28	7.9	5.8	2.3	0.9	2.00	2.88	4.11
9	2.46	7.1	4.8	1.7	0.7	1.23	2.60	3.30
10	2.04	6.5	4.5	1.4	0.4	0.71	1.64	2.93
11	1.17	4.6	2.7	0.8	0.2	0.60	0.95	1.75
12	0.71	4.2	2.3	0.4	-7777	0.22	0.46	0.93
Summary	26.83	79.6	53.4	17.9	6.6	15.50	23.22	34.54

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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: **EWING, NE US**

GHCND:USC00252805
 Elev: 1850 ft. Lat: 42.261° N Lon: 98.342° 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	2.9	2.2	0.7	0.2	0.1	15.9	11.0	7.2	2.1	2.0	4.5	9.0
2	5.7	2.7	2.0	0.6	0.3	-7777	11.8	8.2	6.1	2.1	1.0	3.5	6.0
3	5.1	2.7	2.2	0.9	0.5	-7777	5.3	3.2	2.0	0.6	2.0	4.3	7.5
4	4.1	1.3	1.1	0.5	0.2	-7777	1.2	0.7	0.2	-7777	0.0	2.0	7.0
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	0.7	0.4	0.3	0.1	-7777	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
11	4.0	2.2	1.7	0.7	0.2	0.0	4.8	2.9	1.2	-7777	1.0	3.5	5.0
12	7.5	3.7	2.7	0.8	0.4	0.0	13.6	8.7	5.1	2.4	3.5	6.0	13.5
Summary	32.9	15.9	12.2	4.3	1.8	0.1	52.9	34.8	21.9	7.2	9.5	23.8	48.0

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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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: **EWING, NE US**

GHCND:USC00252805

Elev: 1850 ft. Lat: 42.261° N Lon: 98.342° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	20	107	314	628	891	1076	1018	714	367	84	7
45	1	7	54	202	475	741	921	863	566	241	41	1
50	-7777	2	23	117	330	591	766	708	422	138	15	-7777
55	0	-7777	7	60	205	443	611	554	288	65	4	0
60	0	-7777	1	27	107	300	456	400	174	25	1	0
Growing Degree Units for Corn (Monthly)												
50/86	14	26	93	212	387	581	719	676	457	244	66	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	27	134	448	1076	1967	3043	4061	4775	5142	5226	5233
45	1	8	62	264	739	1480	2401	3264	3830	4071	4112	4113
50	-7777	2	25	142	472	1063	1829	2537	2959	3097	3112	-7777
55	0	-7777	7	67	272	715	1326	1880	2168	2233	2237	2237
60	0	-7777	1	28	135	435	891	1291	1465	1490	1491	1491
Growing Degree Units for Corn (Monthly)												
50/86	14	40	133	345	732	1313	2032	2708	3165	3409	3475	3486

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: **SURPRISE, NE US**

GHCND:USC00258328

Elev: 1545 ft. Lat: 41.104° N Lon: 97.309° 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	36.0	13.5	24.8	7.1	6.0	6.3	-7777	0	0	0	0	0	938	1000	1093	1248	0.0	0.0	5.1	12.0	29.9	5.0
2	40.6	18.4	29.5	6.9	5.8	6.1	-7777	-7777	-7777	0	0	0	714	770	854	994	0.0	0.0	7.6	7.8	25.3	2.2
3	51.7	28.5	40.1	5.2	3.5	4.0	14	9	4	-7777	-7777	-7777	475	533	621	772	0.0	0.0	16.9	2.9	18.9	0.5
4	64.0	39.2	51.6	4.2	3.2	3.4	81	60	37	14	4	2	183	222	289	416	0.0	0.5	25.7	0.1	6.5	0.0
5	74.2	50.7	62.5	3.9	3.2	3.3	260	214	153	75	28	16	29	45	77	154	0.0	1.9	30.8	0.0	0.2	0.0
6	84.1	61.1	72.6	3.4	2.6	2.8	529	470	383	245	131	94	1	2	5	17	0.4	7.4	30.0	0.0	0.0	0.0
7	88.1	65.6	76.9	3.0	2.1	2.4	677	615	522	369	225	174	0	-7777	-7777	2	0.8	13.1	31.0	0.0	0.0	0.0
8	86.3	63.4	74.8	3.8	2.7	3.0	615	553	461	311	176	130	-7777	-7777	1	6	0.8	9.6	31.0	0.0	0.0	0.0
9	79.2	52.3	65.7	4.0	2.9	3.2	338	286	215	119	55	36	15	24	43	97	0.1	3.8	29.9	0.0	0.3	0.0
10	66.4	39.9	53.1	3.9	2.6	2.8	95	69	41	15	4	2	152	189	253	382	0.0	0.4	28.3	0.1	5.8	0.0
11	51.1	27.6	39.4	6.6	3.8	4.9	11	6	3	1	-7777	0	480	536	622	770	0.0	0.0	16.2	2.5	20.7	0.2
12	37.8	15.9	26.8	6.6	6.0	6.0	0	0	0	0	0	0	872	934	1027	1182	0.0	0.0	5.8	10.3	29.9	2.9
Summary	63.3	39.7	51.5	4.9	3.7	4.0	2620	2282	1819	1149	623	454	3859	4255	4885	6040	2.1	36.7	258.3	35.7	137.5	10.8

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

Station: **SURPRISE, NE US**

GHCND:USC00258328

Elev: 1545 ft. Lat: 41.104° N Lon: 97.309° 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	0.56	3.3	2.0	0.2	-7777	0.24	0.51	0.72
2	0.89	3.4	2.2	0.5	0.1	0.25	0.65	1.19
3	2.02	5.5	4.3	1.2	0.4	0.63	1.77	2.95
4	2.64	6.9	5.3	2.0	0.5	1.38	2.50	3.30
5	4.48	10.5	8.4	3.3	1.1	3.35	4.04	5.82
6	4.38	8.0	6.7	2.8	1.1	2.83	3.91	6.15
7	3.38	7.1	5.7	2.1	0.6	1.48	2.99	4.35
8	3.31	6.4	5.2	2.1	1.0	1.91	2.74	4.11
9	2.89	6.3	4.8	1.8	0.7	1.25	2.41	3.57
10	1.91	5.2	4.0	1.3	0.4	0.98	1.29	2.55
11	1.39	3.8	2.9	0.9	0.3	0.60	1.09	2.28
12	0.89	3.3	2.2	0.5	0.1	0.30	0.70	1.00
Summary	28.74	69.7	53.7	18.7	6.3	15.20	24.60	37.99

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Station: **SURPRISE, NE US**

GHCND:USC00258328
 Elev: 1545 ft. Lat: 41.104° N Lon: 97.309° 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	5.6	2.5	2.0	0.8	0.2	-7777	14.1	8.8	5.2	2.0	2.0	5.1	7.0
2	6.6	2.4	2.1	0.8	0.4	-7777	13.4	8.6	5.4	0.8	3.0	6.2	9.0
3	4.1	1.6	1.4	0.6	0.3	0.0	4.8	2.9	1.6	0.5	0.0	1.3	6.0
4	1.2	0.4	0.4	0.2	0.1	0.0	0.5	0.3	0.1	0.0	0.0	0.0	1.5
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	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.2	0.2	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
11	2.4	0.9	0.8	0.3	0.1	-7777	2.1	0.7	0.4	0.1	0.0	0.0	3.0
12	4.5	2.1	1.8	0.6	0.3	0.0	9.9	5.1	3.1	1.3	1.0	4.0	6.0
Summary	25.1	10.1	8.7	3.4	1.5	0.0	45.1	26.5	15.9	4.7	6.0	16.6	32.5

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Station: **SURPRISE, NE US**

GHCND:USC00258328

Elev: 1545 ft. Lat: 41.104° N Lon: 97.309° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	30	145	366	696	978	1142	1080	772	421	119	11
45	3	10	78	245	542	828	987	925	623	289	65	3
50	-7777	2	35	149	393	678	832	770	477	178	30	-7777
55	-7777	-7777	14	81	260	529	677	615	338	95	11	0
60	0	-7777	4	37	153	383	522	461	215	41	3	0
Growing Degree Units for Corn (Monthly)												
50/86	18	32	107	231	423	646	770	724	492	274	92	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	42	187	553	1249	2227	3369	4449	5221	5642	5761	5772
45	3	13	91	336	878	1706	2693	3618	4241	4530	4595	4598
50	-7777	2	37	186	579	1257	2089	2859	3336	3514	3544	-7777
55	-7777	-7777	14	95	355	884	1561	2176	2514	2609	2620	2620
60	0	-7777	4	41	194	577	1099	1560	1775	1816	1819	1819
Growing Degree Units for Corn (Monthly)												
50/86	18	50	157	388	811	1457	2227	2951	3443	3717	3809	3826

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: **HAIGLER, NE US**

GHCND:USC00253515
Elev: 3274 ft. Lat: 40.014° N Lon: 101.941° 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	42.5	14.3	28.4	5.3	4.0	4.4	-7777	0	0	0	0	0	825	887	980	1135	0.0	0.0	10.3	7.5	30.9	2.6
2	46.0	17.2	31.6	6.1	4.2	4.8	-7777	0	0	0	0	0	655	711	795	935	0.0	0.0	11.4	4.2	27.7	1.2
3	55.2	24.5	39.8	4.2	3.1	3.2	6	4	1	0	0	0	476	535	626	780	0.0	0.0	19.9	1.4	26.0	0.2
4	63.8	32.8	48.3	4.6	2.9	3.4	33	20	9	1	-7777	-7777	234	281	359	502	0.0	0.1	26.1	0.3	13.6	0.0
5	73.3	44.8	59.0	3.9	2.2	2.8	183	144	95	38	10	5	58	80	124	222	0.0	1.5	30.4	0.0	1.9	0.0
6	84.0	55.6	69.8	4.2	2.4	3.1	449	392	308	182	84	55	5	8	14	38	0.5	8.3	29.8	0.0	0.0	0.0
7	90.8	60.5	75.6	2.9	2.1	2.3	640	578	486	334	191	140	-7777	-7777	1	4	3.1	18.2	31.0	0.0	0.0	0.0
8	88.3	59.1	73.7	3.3	2.3	2.7	580	518	426	279	146	103	-7777	-7777	2	9	1.3	14.4	31.0	0.0	0.0	0.0
9	80.1	47.8	64.0	3.4	2.3	2.6	291	241	175	87	31	18	22	33	57	119	0.1	5.0	29.8	0.0	0.7	0.0
10	66.9	34.5	50.7	3.5	1.8	2.3	60	41	21	5	1	1	193	236	309	448	0.0	0.7	27.9	0.2	11.4	0.0
11	52.9	22.9	37.9	5.0	2.9	3.7	2	1	-7777	0	0	0	515	574	663	813	0.0	0.0	16.8	2.2	26.7	0.5
12	42.7	14.8	28.7	5.3	4.5	4.7	-7777	0	0	0	0	0	813	875	968	1123	0.0	0.0	9.1	6.7	30.9	2.2
Summary	65.5	35.7	50.6	4.3	2.9	3.3	2244	1939	1521	926	463	322	3796	4220	4898	6128	5.0	48.2	273.5	22.5	169.8	6.7

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www.ncdc.noaa.gov

Station: **HAIGLER, NE US**

GHCND:USC00253515
Elev: 3274 ft. Lat: 40.014° N Lon: 101.941° 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	0.41	3.1	1.1	0.2	0.1	0.10	0.28	0.64
2	0.46	4.1	1.4	0.1	0.0	0.17	0.31	0.71
3	1.05	5.6	2.9	0.6	0.2	0.40	0.96	1.36
4	2.04	6.9	4.4	1.2	0.3	1.24	1.69	2.66
5	2.85	9.7	6.0	1.6	0.6	1.29	2.62	4.24
6	2.67	9.3	5.7	1.7	0.8	1.42	2.71	3.82
7	2.90	9.0	5.9	1.9	0.7	1.64	2.80	4.17
8	2.48	7.3	4.6	1.7	0.7	1.18	2.04	3.50
9	1.39	5.7	3.4	0.8	0.2	0.73	1.32	2.06
10	1.33	5.7	3.1	0.7	0.3	0.23	1.37	1.94
11	0.62	3.9	2.1	0.2	-7777	0.30	0.37	1.05
12	0.45	3.5	1.4	0.3	-7777	0.11	0.27	0.61
Summary	18.65	73.8	42.0	11.0	3.9	8.81	16.74	26.76

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Station: **HAIGLER, NE US**

GHCND:USC00253515
 Elev: 3274 ft. Lat: 40.014° N Lon: 101.941° 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	5.3	2.2	1.6	0.5	0.2	-7777	10.0	5.5	3.1	1.3	1.3	4.1	7.7
2	3.6	2.2	1.2	0.4	-7777	0.0	7.4	3.9	2.1	0.0	1.0	3.0	5.7
3	4.1	1.8	0.9	0.3	-7777	-7777	2.7	1.2	0.7	0.2	0.7	3.2	4.8
4	0.9	0.5	0.3	-7777	0.0	0.0	1.4	0.7	0.4	0.2	0.0	0.0	1.6
5	-7777	-7777	0.0	0.0	0.0	0.0	-7777	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	0.1	0.1	-7777	-7777	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0
10	1.2	0.4	0.3	0.1	0.1	-7777	0.7	0.3	0.2	0.1	0.0	0.0	0.0
11	2.4	1.1	0.6	0.1	0.1	0.0	2.3	0.6	0.3	0.1	0.3	1.6	2.9
12	5.1	2.7	1.4	0.4	0.2	0.1	6.4	3.3	1.8	0.4	1.0	2.0	5.6
Summary	22.7	11.0	6.3	1.8	0.6	0.1	31.1	15.6	8.7	2.3	4.3	13.9	28.3

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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: HAIGLER, NE US

GHCND:USC00253515
Elev: 3274 ft. Lat: 40.014° N Lon: 101.941° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	22	120	278	592	894	1105	1044	719	353	91	15
45	1	7	58	169	442	744	950	889	571	230	40	3
50	-7777	1	21	84	301	595	795	734	426	130	11	1
55	-7777	-7777	6	33	183	449	640	580	291	60	2	-7777
60	0	0	1	9	95	308	486	426	175	21	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	38	48	135	222	373	564	699	665	459	272	110	37

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	34	154	432	1024	1918	3023	4067	4786	5139	5230	5245
45	1	8	66	235	677	1421	2371	3260	3831	4061	4101	4104
50	-7777	1	22	106	407	1002	1797	2531	2957	3087	3098	3099
55	-7777	-7777	6	39	222	671	1311	1891	2182	2242	2244	-7777
60	0	0	1	10	105	413	899	1325	1500	1521	-7777	1521
Growing Degree Units for Corn (Monthly)												
50/86	38	86	221	443	816	1380	2079	2744	3203	3475	3585	3622

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: **NIORARA, NE US**

GHCND:USC00255960
 Elev: 1234 ft. Lat: 42.747° N Lon: 98.047° 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	34.6	13.1	23.9	6.9	6.1	6.4	-7777	0	0	0	0	0	965	1028	1120	1275	0.0	0.0	4.2	12.7	29.4	5.8
2	39.2	17.4	28.3	7.4	6.1	6.6	-7777	-7777	-7777	0	0	0	748	804	887	1027	0.0	0.0	7.0	8.7	25.2	3.2
3	51.0	26.8	38.9	5.6	3.8	4.4	10	6	2	-7777	-7777	-7777	509	567	656	809	0.0	0.0	16.8	3.1	21.1	0.4
4	64.5	38.0	51.3	4.9	3.1	3.8	77	59	38	16	6	4	190	232	300	428	0.0	0.9	25.6	0.1	8.2	0.0
5	74.9	49.0	62.0	3.3	3.0	2.9	246	199	137	61	20	11	31	46	76	156	0.0	1.4	30.9	0.0	0.7	0.0
6	84.1	58.7	71.4	3.4	2.8	2.9	493	434	347	214	109	77	1	2	5	22	0.5	7.5	30.0	0.0	0.0	0.0
7	89.1	64.1	76.6	3.5	2.5	2.8	669	607	515	361	219	168	0	0	-7777	2	1.7	13.6	31.0	0.0	0.0	0.0
8	87.2	62.6	74.9	3.1	2.4	2.6	617	555	463	313	179	133	-7777	-7777	1	7	0.7	10.4	31.0	0.0	0.0	0.0
9	79.0	52.7	65.9	3.4	2.4	2.7	343	292	221	124	57	38	17	26	45	99	-7777	4.2	29.8	0.0	0.4	0.0
10	65.3	39.9	52.6	3.9	2.5	2.8	85	61	35	12	3	1	159	198	265	396	0.0	0.4	28.2	0.2	7.3	0.0
11	48.3	27.0	37.7	6.8	4.2	5.3	8	4	2	-7777	0	0	528	585	672	821	0.0	0.0	13.9	3.4	20.2	0.4
12	35.3	15.4	25.4	7.1	5.9	6.3	-7777	0	0	0	0	0	919	981	1074	1229	0.0	0.0	4.8	11.7	29.4	3.5
Summary	62.7	38.7	50.7	4.9	3.7	4.1	2548	2217	1760	1101	593	432	4067	4469	5101	6271	2.9	38.4	253.2	39.9	141.9	13.3

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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: **NIOBRARA, NE US**

GHCND:USC00255960

Elev: 1234 ft. Lat: 42.747° N Lon: 98.047° 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	0.45	3.2	1.3	0.2	0.0	0.21	0.42	0.62
2	0.63	3.4	1.4	0.1	0.1	0.15	0.54	0.99
3	1.43	6.0	3.5	0.9	0.2	0.60	1.07	2.26
4	2.89	9.0	5.4	1.9	0.7	1.60	2.51	4.35
5	3.54	9.7	6.5	2.0	0.9	1.75	3.43	5.04
6	3.52	9.6	6.1	2.2	0.7	2.24	3.24	5.03
7	2.93	8.3	5.2	2.0	0.8	1.28	1.88	4.21
8	2.70	7.4	4.8	1.6	0.6	1.68	3.13	3.61
9	2.42	7.0	4.4	1.3	0.4	1.32	2.17	3.17
10	2.07	6.3	3.5	1.2	0.5	0.60	1.27	3.56
11	1.08	5.0	2.9	0.6	0.2	0.37	0.85	1.53
12	0.45	3.3	1.1	-7777	0.0	0.13	0.35	0.57
Summary	24.11	78.2	46.1	14.0	5.1	11.93	20.86	34.94

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

Station: **NIOBRARA, NE US**

GHCND:USC00255960

Elev: 1234 ft. Lat: 42.747° N Lon: 98.047° 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	5.2	2.5	1.8	0.7	0.3	-7777	16.0	10.6	6.6	1.1	2.0	4.5	8.0
2	5.5	2.3	1.8	0.8	0.3	-7777	11.5	7.6	6.4	2.9	1.5	3.5	8.5
3	5.0	2.2	1.8	0.8	0.2	-7777	6.7	4.4	2.7	0.4	0.5	4.3	6.0
4	2.3	0.9	0.8	0.4	0.2	0.0	1.0	0.4	0.3	0.0	0.0	0.3	5.0
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	0.8	0.3	0.3	0.1	0.1	0.0	0.3	0.2	0.1	-7777	0.0	0.0	0.0
11	5.2	2.0	1.8	0.7	0.3	-7777	6.7	3.1	1.5	0.2	1.5	3.0	9.0
12	4.5	2.4	2.0	0.6	0.2	0.0	14.3	8.0	3.9	1.5	0.5	3.3	6.5
Summary	28.5	12.6	10.3	4.1	1.6	0.0	56.5	34.3	21.5	6.1	6.0	18.9	43.0

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

Station: **NIOBRARA, NE US**

GHCND:USC00255960

Elev: 1234 ft. Lat: 42.747° N Lon: 98.047° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	27	125	357	680	942	1134	1081	775	406	105	9
45	3	9	65	238	527	792	979	926	627	275	55	2
50	-7777	2	28	141	378	642	824	772	481	165	24	-7777
55	-7777	-7777	10	77	246	493	669	617	343	85	8	-7777
60	0	-7777	2	38	137	347	515	463	221	35	2	0
Growing Degree Units for Corn (Monthly)												
50/86	14	27	99	237	425	614	754	721	496	256	73	12

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	39	164	521	1201	2143	3277	4358	5133	5539	5644	5653
45	3	12	77	315	842	1634	2613	3539	4166	4441	4496	4498
50	-7777	2	30	171	549	1191	2015	2787	3268	3433	3457	-7777
55	-7777	-7777	10	87	333	826	1495	2112	2455	2540	2548	-7777
60	0	-7777	2	40	177	524	1039	1502	1723	1758	1760	1760
Growing Degree Units for Corn (Monthly)												
50/86	14	41	140	377	802	1416	2170	2891	3387	3643	3716	3728

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: **HARRISON 4 NW, NE US**

GHCND:USC00253617
Elev: 5072 ft. Lat: 42.743° N Lon: 103.922° 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	14.0	25.6				0	0	0	0	0	0	912	974	1067	1222	0.0	0.0	4.3	9.0	29.1	4.7
2	39.3	15.1	27.2				-7777	0	0	0	0	0	778	834	918	1058	0.0	0.0	4.0	6.1	27.7	2.4
3	46.2	22.1	34.2				1	-7777	-7777	0	0	0	647	709	801	956	0.0	0.0	11.5	5.0	27.1	0.5
4	54.8	30.2	42.5				9	5	2	-7777	-7777	-7777	384	440	527	675	0.0	0.0	17.9	1.1	18.6	0.0
5	65.0	40.5	52.8				67	46	24	7	1	-7777	137	178	249	387	0.0	0.3	28.6	0.0	3.6	0.0
6	75.8	48.9	62.4				245	198	134	55	16	8	24	38	64	135	0.0	1.5	29.7	0.0	0.0	0.0
7	85.0	56.4	70.7				487	426	336	195	83	52	1	2	5	19	1.1	8.5	31.0	0.0	0.0	0.0
8	83.8	55.1	69.5				451	391	304	172	70	42	3	6	12	35	0.2	8.2	31.0	0.0	0.0	0.0
9	72.8	44.4	58.6				171	135	88	36	10	5	63	87	130	228	0.0	1.3	29.5	0.0	1.1	0.0
10	59.3	33.0	46.2				24	13	5	-7777	0	0	298	349	434	584	0.0	0.0	23.0	0.5	13.1	0.0
11	46.1	21.8	33.9				-7777	-7777	-7777	-7777	0	0	632	692	782	932	0.0	0.0	12.5	3.8	26.4	0.6
12	36.1	12.4	24.3				0	0	0	0	0	0	952	1015	1108	1262	0.0	0.0	3.5	11.1	30.6	5.1
Summary	58.5	32.8	45.7	9999	9999	9999	1455	1214	893	465	180	107	4831	5324	6097	7493	1.3	19.8	226.5	36.6	177.3	13.3

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

Station: **HARRISON 4 NW, NE US**

GHCND:USC00253617
Elev: 5072 ft. Lat: 42.743° N Lon: 103.922° 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	0.41	@	@	@	@			
2	0.65	@	@	@	@			
3	1.19	@	@	@	@			
4	2.99	@	@	@	@			
5	3.35	@	@	@	@			
6	3.13	@	@	@	@			
7	1.94	@	@	@	@			
8	1.54	@	@	@	@			
9	1.44	@	@	@	@			
10	1.72	@	@	@	@			
11	0.63	@	@	@	@			
12	0.45	@	@	@	@			
Summary	19.44	9999	9999	9999	9999	9999	9999	9999

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Station: **HARRISON 4 NW, NE US**

GHCND:USC00253617
Elev: 5072 ft. Lat: 42.743° N Lon: 103.922° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	3	55	149	402	670	951	912	560	242	45	6
45	2	-7777	23	77	266	521	796	757	416	142	14	1
50	-7777	-7777	8	32	151	376	641	602	281	71	3	-7777
55	0	-7777	1	9	67	245	487	451	171	24	-7777	0
60	0	0	-7777	2	24	134	336	304	88	5	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	7	55	115	242	407	606	575	354	172	47	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	12	67	216	618	1288	2239	3151	3711	3953	3998	4004
45	2	-7777	25	102	368	889	1685	2442	2858	3000	3014	3015
50	-7777	-7777	8	40	191	567	1208	1810	2091	2162	2165	-7777
55	0	-7777	1	10	77	322	809	1260	1431	1455	-7777	1455
60	0	0	-7777	2	26	160	496	800	888	893	-7777	893
Growing Degree Units for Corn (Monthly)												
50/86	11	18	73	188	430	837	1443	2018	2372	2544	2591	2601

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: **ASHLAND 2, NE US**

GHCND:USC00250375

Elev: 1119 ft. Lat: 41.041° N Lon: 96.381° 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	12.6	23.8	6.5	5.7	5.9	0	0	0	0	0	0	967	1029	1122	1277	0.0	0.0	4.4	12.9	30.4	5.7
2	39.8	16.7	28.2	6.5	5.6	5.9	-7777	-7777	-7777	-7777	0	0	749	805	889	1029	0.0	0.0	6.8	8.3	26.0	3.2
3	51.7	26.7	39.2	5.1	3.8	4.0	14	10	5	1	-7777	-7777	504	562	650	801	0.0	0.1	16.1	2.4	22.3	0.5
4	64.7	37.9	51.3	4.6	3.3	3.8	81	62	40	16	4	2	192	233	301	427	0.0	0.6	25.5	0.1	7.9	0.0
5	75.1	49.6	62.3	3.7	3.5	3.2	257	210	149	70	23	13	29	45	76	152	0.0	1.7	30.8	0.0	0.4	0.0
6	84.8	60.7	72.7	3.2	2.5	2.7	533	474	386	249	133	97	1	2	4	16	0.5	8.1	30.0	0.0	0.0	0.0
7	89.2	65.4	77.3	3.2	2.4	2.6	691	629	536	383	238	185	-7777	-7777	-7777	2	2.4	13.7	31.0	0.0	0.0	0.0
8	87.2	62.7	75.0	3.9	2.9	3.3	618	556	464	315	183	138	-7777	-7777	1	7	2.0	11.3	31.0	0.0	0.0	0.0
9	79.8	52.5	66.1	3.6	2.6	2.8	351	299	227	128	60	41	16	24	42	93	0.1	4.8	29.9	0.0	0.4	0.0
10	67.0	40.2	53.6	3.5	2.7	2.6	104	78	48	18	5	3	148	184	246	371	0.0	0.5	28.7	-7777	6.1	0.0
11	51.0	27.6	39.3	6.2	4.0	4.8	11	7	3	1	-7777	0	482	538	624	772	0.0	0.0	16.0	2.4	21.4	0.2
12	37.2	16.3	26.7	6.4	6.3	6.2	-7777	-7777	0	0	0	0	876	938	1031	1186	0.0	0.0	5.1	10.6	29.7	3.3
Summary	63.5	39.1	51.3	4.7	3.8	4.0	2660	2325	1858	1181	646	479	3964	4360	4986	6133	5.0	40.8	255.3	36.7	144.6	12.9

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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: **ASHLAND 2, NE US**

GHCND:USC00250375

Elev: 1119 ft. Lat: 41.041° N Lon: 96.381° 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	0.78	3.5	2.5	0.3	-7777	0.48	0.70	1.16
2	0.84	4.1	2.3	0.4	0.1	0.45	0.76	0.94
3	1.89	5.8	4.4	1.3	0.4	0.88	1.63	2.75
4	2.98	7.9	5.7	2.1	0.6	1.84	2.73	3.99
5	4.82	10.7	8.2	3.3	1.1	2.24	3.75	7.40
6	4.27	8.9	6.9	2.9	1.4	2.13	3.53	6.54
7	3.73	7.2	5.3	2.4	1.0	1.77	3.12	4.68
8	3.94	7.2	5.4	2.6	1.2	1.55	2.60	6.96
9	2.77	6.5	4.9	2.0	0.8	1.35	2.74	3.92
10	2.24	6.2	4.7	1.4	0.7	1.04	1.81	3.64
11	1.56	4.6	3.3	1.2	0.3	0.90	1.84	2.48
12	1.06	4.0	2.8	0.6	0.1	0.50	0.85	1.39
Summary	30.88	76.6	56.4	20.5	7.7	15.13	26.06	45.85

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Station: **ASHLAND 2, NE US**

GHCND:USC00250375

Elev: 1119 ft. Lat: 41.041° N Lon: 96.381° 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	5.1	2.5	1.8	0.8	0.2	-7777	@	@	@	@	0.8	3.0	6.6
2	5.4	2.7	1.9	0.7	0.3	0.0	@	@	@	@	2.0	5.1	8.0
3	4.0	1.2	1.0	0.5	0.3	0.1	@	@	@	@	0.0	2.3	7.0
4	0.9	0.4	0.2	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.3
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	0.6	0.2	0.2	0.1	-7777	-7777	@	@	@	@	0.0	0.0	0.0
11	1.3	0.9	0.6	0.2	0.1	0.0	@	@	@	@	0.0	0.1	1.5
12	5.5	2.5	1.9	0.8	0.3	0.0	@	@	@	@	2.5	3.5	7.0
Summary	22.8	10.4	7.6	3.2	1.2	0.1	9999	9999	9999	9999	5.3	14.0	30.4

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

Station: **ASHLAND 2, NE US**

GHCND:USC00250375
Elev: 1119 ft. Lat: 41.041° N Lon: 96.381° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	27	129	360	693	982	1156	1083	785	433	121	12
45	2	10	69	243	539	832	1001	928	636	301	65	3
50	-7777	2	33	148	390	682	846	773	490	189	29	1
55	0	-7777	14	81	257	533	691	618	351	104	11	-7777
60	0	-7777	5	40	149	386	536	464	227	48	3	0
Growing Degree Units for Corn (Monthly)												
50/86	14	29	106	238	429	647	772	715	500	281	92	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	36	165	525	1218	2200	3356	4439	5224	5657	5778	5790
45	2	12	81	324	863	1695	2696	3624	4260	4561	4626	4629
50	-7777	2	35	183	573	1255	2101	2874	3364	3553	3582	3583
55	0	-7777	14	95	352	885	1576	2194	2545	2649	2660	-7777
60	0	-7777	5	45	194	580	1116	1580	1807	1855	1858	1858
Growing Degree Units for Corn (Monthly)												
50/86	14	43	149	387	816	1463	2235	2950	3450	3731	3823	3838

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: **HARRISON, NE US**

GHCND:USC00253615
Elev: 4849 ft. Lat: 42.686° N Lon: 103.884° 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	35.2	11.7	23.4	4.8	4.0	4.3	0	0	0	0	0	0	978	1040	1133	1288	0.0	0.0	3.3	10.8	30.6	5.3
2	37.4	14.2	25.8	5.7	6.0	5.7	0	0	0	0	0	0	817	873	957	1097	0.0	0.0	5.1	8.4	27.0	3.8
3	46.0	21.5	33.7	4.3	3.6	3.7	-7777	-7777	-7777	0	0	0	659	721	814	969	0.0	0.0	13.0	5.7	27.4	1.2
4	55.1	28.9	42.0	4.1	2.6	3.1	11	7	3	-7777	-7777	0	401	457	542	690	0.0	0.0	19.4	1.6	19.4	0.0
5	65.4	39.2	52.3	4.2	2.5	3.1	74	51	26	5	-7777	-7777	158	197	265	399	0.0	0.1	27.2	-7777	5.5	0.0
6	75.9	48.5	62.2	4.0	2.6	3.0	243	196	133	56	16	8	27	40	67	140	0.1	2.0	29.6	0.0	0.3	0.0
7	85.2	55.2	70.2	3.4	2.1	2.6	472	412	323	187	81	52	1	3	7	26	0.6	9.8	31.0	0.0	0.0	0.0
8	83.7	53.4	68.6	2.8	2.8	2.6	424	364	278	148	54	31	4	6	13	38	0.1	6.7	30.9	0.0	0.0	0.0
9	72.9	43.1	58.0	3.6	2.8	2.9	169	132	84	30	6	2	79	102	144	240	0.0	1.1	28.5	0.2	2.9	0.0
10	59.0	31.1	45.1	4.1	2.5	2.9	21	12	4	-7777	-7777	-7777	329	383	468	619	0.0	0.0	23.0	1.0	15.7	0.1
11	44.4	20.1	32.3	6.1	4.1	4.9	1	-7777	-7777	0	0	0	683	743	832	982	0.0	0.0	10.7	5.9	26.4	1.6
12	35.1	11.5	23.3	5.2	4.8	4.8	0	0	0	0	0	0	982	1044	1137	1292	0.0	0.0	3.6	11.6	30.5	5.0
Summary	57.9	31.5	44.7	4.4	3.4	3.6	1415	1174	851	426	157	93	5118	5609	6379	7780	0.8	19.7	225.3	45.2	185.7	17.0

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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: **HARRISON, NE US**

GHCND:USC00253615
Elev: 4849 ft. Lat: 42.686° N Lon: 103.884° 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	0.32	3.8	1.3	-7777	0.0	0.18	0.28	0.49
2	0.38	3.9	1.3	-7777	0.0	0.19	0.33	0.52
3	0.98	6.1	3.1	0.4	-7777	0.45	0.80	1.52
4	2.20	7.8	5.2	1.5	0.4	0.94	1.97	3.16
5	3.31	10.7	6.8	1.9	0.6	1.93	2.75	3.95
6	2.71	9.6	5.9	1.7	0.3	1.27	2.15	3.16
7	1.89	8.7	4.8	1.0	0.2	1.14	1.54	2.81
8	1.46	6.1	3.3	0.8	0.2	0.73	1.33	2.00
9	1.46	7.1	3.6	0.9	0.2	0.63	1.22	2.27
10	1.36	5.8	3.5	0.7	0.2	0.51	0.95	1.66
11	0.63	3.9	2.2	0.1	-7777	0.23	0.59	0.85
12	0.40	4.4	1.5	0.1	0.0	0.13	0.31	0.47
Summary	17.10	77.9	42.5	9.1	2.1	8.33	14.22	22.86

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 1981-2010**

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

Station: **HARRISON, NE US**

GHCND:USC00253615
 Elev: 4849 ft. Lat: 42.686° N Lon: 103.884° 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	5.5	2.8	1.9	0.5	0.1	-7777	@	@	@	@	3.0	5.0	7.0
2	7.0	2.7	2.0	0.7	0.4	-7777	@	@	@	@	2.9	5.7	7.8
3	10.6	3.1	2.4	1.1	0.6	0.3	@	@	@	@	6.0	10.1	14.0
4	5.2	1.5	1.2	0.7	0.3	0.1	@	@	@	@	0.8	3.5	7.0
5	1.0	0.4	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	1.0
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	0.5	0.2	0.1	-7777	-7777	-7777	@	@	@	@	0.0	0.0	0.0
10	4.0	1.2	0.8	0.4	0.2	-7777	@	@	@	@	0.0	1.5	6.0
11	4.6	2.2	1.6	0.7	0.2	0.1	@	@	@	@	0.6	1.5	6.0
12	7.4	3.1	2.4	0.9	0.2	-7777	@	@	@	@	2.5	4.8	10.0
Summary	45.8	17.2	12.7	5.1	2.0	0.5	9999	9999	9999	9999	15.8	32.1	58.8

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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: **HARRISON, NE US**

GHCND:USC00253615
Elev: 4849 ft. Lat: 42.686° N Lon: 103.884° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	11	55	154	392	666	936	885	547	224	52	5
45	-7777	2	20	81	261	518	781	730	407	128	21	1
50	0	-7777	5	35	152	375	626	576	279	60	6	-7777
55	0	0	-7777	11	74	243	472	424	169	21	1	0
60	0	0	-7777	3	26	133	323	278	84	4	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	7	14	58	127	250	408	590	561	354	175	53	9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	4	15	70	224	616	1282	2218	3103	3650	3874	3926	3931
45	-7777	2	22	103	364	882	1663	2393	2800	2928	2949	2950
50	0	-7777	5	40	192	567	1193	1769	2048	2108	2114	-7777
55	0	0	-7777	11	85	328	800	1224	1393	1414	1415	1415
60	0	0	-7777	3	29	162	485	763	847	851	-7777	851
Growing Degree Units for Corn (Monthly)												
50/86	7	21	79	206	456	864	1454	2015	2369	2544	2597	2606

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: **CLEARWATER, NE US**

GHCND:USC00251696

Elev: 1795 ft. Lat: 42.184° N Lon: 98.191° 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	0.39	4.7	1.2	0.1	0.0	0.21	0.38	0.53
2	0.56	4.9	1.9	0.2	0.1	0.29	0.47	0.65
3	1.51	6.2	3.5	0.5	0.0	0.75	1.19	2.13
4	2.91	10.2	6.0	1.7	0.7	1.61	2.51	3.85
5	3.93	12.3	7.6	2.8	0.6	2.10	3.23	5.50
6	4.13	12.0	7.0	2.8	0.6	2.69	3.92	5.24
7	3.39	9.9	6.4	2.6	0.9	1.95	3.07	4.02
8	2.73	9.3	5.6	1.7	0.8	1.61	2.46	3.80
9	2.53	6.3	3.9	1.8	0.6	1.46	2.42	2.98
10	2.09	6.9	3.4	1.2	0.4	0.65	1.45	3.11
11	1.16	5.3	2.6	0.8	0.3	0.34	0.85	1.76
12	0.68	4.2	0.8	0.0	0.0	0.23	0.48	0.83
Summary	26.01	92.2	49.9	16.2	5.0	13.89	22.43	34.40

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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: **CLEARWATER, NE US**

GHCND:USC00251696
 Elev: 1795 ft. Lat: 42.184° N Lon: 98.191° 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	3.3	2.5	0.7	0.2	0.0	@	@	@	@	1.5	5.1	10.0
2	5.5	3.1	2.6	0.8	0.3	0.0	@	@	@	@	2.0	5.3	8.0
3	4.7	2.2	2.1	0.8	0.2	0.0	@	@	@	@	1.0	3.8	6.5
4	3.8	1.3	1.0	0.4	0.3	0.1	@	@	@	@	0.0	1.0	6.0
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	0.5	0.3	0.3	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	4.4	1.8	1.6	0.8	0.2	0.0	@	@	@	@	2.0	3.5	6.6
12	4.5	2.6	2.0	0.6	0.2	0.0	@	@	@	@	1.5	2.0	6.5
Summary	28.7	14.6	12.1	4.2	1.4	0.1	9999	9999	9999	9999	8.0	20.7	43.6

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 -4444: year-round risk of frost-freeze
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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: **WAYNE, NE US**

GHCND:USC00259045

Elev: 1463 ft. Lat: 42.236° N Lon: 97.011° 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	30.8	10.2	20.5	6.7	5.6	6.0	0	0	0	0	0	0	1069	1131	1224	1379	0.0	0.0	2.6	16.1	30.6	7.6
2	35.3	14.8	25.1	7.0	5.9	6.3	-7777	-7777	-7777	0	0	0	839	894	978	1118	0.0	0.0	4.6	11.4	26.8	3.8
3	46.8	24.1	35.5	5.3	3.6	4.1	5	3	1	-7777	-7777	-7777	611	671	762	916	0.0	0.0	12.7	4.4	24.8	0.7
4	60.6	34.9	47.7	4.6	3.1	3.6	44	32	18	6	1	-7777	262	309	386	524	0.0	0.1	23.7	0.2	12.0	0.0
5	71.2	47.3	59.3	3.8	3.6	3.5	186	148	99	42	13	7	55	78	123	221	0.0	0.9	30.4	0.0	0.7	0.0
6	80.9	57.4	69.2	3.6	2.6	2.9	427	370	287	164	72	47	3	6	13	40	0.0	3.9	30.0	0.0	0.0	0.0
7	85.1	62.5	73.8	3.1	2.5	2.6	583	521	428	279	148	106	-7777	-7777	-7777	7	0.3	7.4	31.0	0.0	0.0	0.0
8	83.1	60.2	71.7	3.5	2.7	2.9	516	455	364	221	105	71	-7777	1	3	16	0.0	4.7	31.0	0.0	0.0	0.0
9	75.3	49.9	62.6	3.5	2.5	2.8	258	211	149	73	27	15	30	43	72	145	0.0	1.6	29.8	0.0	0.6	0.0
10	62.4	37.7	50.1	3.3	2.9	2.7	62	44	25	8	2	1	216	260	334	471	0.0	0.1	26.0	0.3	8.5	0.0
11	46.0	24.8	35.4	6.3	4.0	4.9	5	3	1	-7777	0	0	593	651	739	888	0.0	0.0	11.4	5.2	23.6	0.3
12	32.4	13.4	22.9	7.0	6.0	6.4	0	0	0	0	0	0	995	1057	1149	1305	0.0	0.0	2.9	14.2	30.4	4.4
Summary	59.2	36.4	47.8	4.8	3.8	4.1	2086	1787	1372	793	368	247	4673	5101	5783	7030	0.3	18.7	236.1	51.8	158.0	16.8

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1981-2010**

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

Station: **WAYNE, NE US**

GHCND:USC00259045

Elev: 1463 ft. Lat: 42.236° N Lon: 97.011° 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	0.54	4.3	1.4	0.2	0.0	0.34	0.47	0.73
2	0.59	4.3	2.0	0.2	-7777	0.30	0.53	0.89
3	1.83	6.5	4.0	1.1	0.2	0.80	1.55	2.70
4	3.13	8.5	5.9	2.1	0.9	1.78	2.71	4.06
5	4.13	10.1	7.9	2.7	0.9	2.35	4.20	5.26
6	4.26	9.3	7.3	3.1	1.2	3.00	4.31	5.74
7	2.98	7.9	5.6	2.0	0.7	1.69	2.50	4.10
8	3.00	7.3	5.1	1.8	0.7	1.23	2.69	3.99
9	2.65	6.5	4.9	2.0	0.5	1.67	2.38	3.87
10	2.22	6.1	4.3	1.5	0.5	0.98	1.67	3.05
11	1.36	4.8	3.1	0.9	0.2	0.51	1.12	2.09
12	0.71	4.9	2.0	0.4	-7777	0.29	0.51	0.95
Summary	27.40	80.5	53.5	18.0	5.8	14.94	24.64	37.43

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Station: **WAYNE, NE US**

GHCND:USC00259045
 Elev: 1463 ft. Lat: 42.236° N Lon: 97.011° 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	6.2	3.4	2.5	0.8	0.4	-7777	15.0	8.8	5.9	1.5	3.4	6.0	7.7
2	6.2	3.1	2.0	0.8	0.3	-7777	12.5	7.3	5.3	1.9	2.2	5.0	8.0
3	6.0	2.3	1.7	0.6	0.3	0.1	5.8	2.9	1.7	0.4	0.5	4.9	10.0
4	2.6	0.8	0.7	0.3	0.1	-7777	0.8	0.5	0.3	-7777	0.0	0.3	4.5
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	0.2	0.1	0.1	-7777	0.0	0.2	-7777	0.0	0.0	0.0	0.0	0.0
11	3.5	1.8	1.3	0.4	0.1	0.1	3.5	1.2	0.4	0.1	0.5	2.8	5.0
12	6.4	3.8	2.5	0.9	0.4	-7777	13.2	5.5	2.5	0.3	2.0	5.6	9.0
Summary	31.4	15.4	10.8	3.9	1.6	0.2	51.0	26.2	16.1	4.2	8.6	24.6	44.2

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1981-2010**

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

Station: **WAYNE, NE US**

GHCND:USC00259045
Elev: 1463 ft. Lat: 42.236° N Lon: 97.011° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	14	81	270	597	874	1048	981	678	337	77	5
45	1	4	40	167	445	724	893	826	530	220	40	1
50	-7777	1	16	93	304	575	738	671	388	125	17	-7777
55	0	-7777	5	44	186	427	583	516	258	62	5	0
60	0	-7777	1	18	99	287	428	364	149	25	1	0
Growing Degree Units for Corn (Monthly)												
50/86	8	15	69	185	358	564	703	650	422	215	58	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	100	370	967	1841	2889	3870	4548	4885	4962	4967
45	1	5	45	212	657	1381	2274	3100	3630	3850	3890	3891
50	-7777	1	17	110	414	989	1727	2398	2786	2911	2928	-7777
55	0	-7777	5	49	235	662	1245	1761	2019	2081	2086	2086
60	0	-7777	1	19	118	405	833	1197	1346	1371	1372	1372
Growing Degree Units for Corn (Monthly)												
50/86	8	23	92	277	635	1199	1902	2552	2974	3189	3247	3254

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: **FIRTH, NE US**

GHCND:USC00252935

Elev: 1339 ft. Lat: 40.535° N Lon: 96.608° 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	0.67	3.1	1.8	0.4	0.0	0.35	0.55	1.07
2	0.92	3.7	2.2	0.3	0.1	0.40	0.76	1.14
3	2.37	5.6	4.6	1.9	0.5	1.01	2.37	3.46
4	2.72	7.7	5.5	1.6	0.9	1.82	2.79	3.44
5	5.38	10.5	8.3	3.4	1.2	2.96	4.20	6.22
6	4.12	8.2	6.5	3.1	1.5	2.52	3.90	5.43
7	4.65	8.1	6.3	3.6	1.7	3.06	4.41	6.11
8	3.01	7.7	6.1	2.2	0.8	1.89	2.44	4.30
9	3.41	6.1	5.0	2.0	1.1	2.23	3.00	4.29
10	2.17	5.4	4.2	1.2	0.4	1.14	1.67	2.68
11	1.62	4.7	3.4	1.4	0.3	0.93	1.42	2.37
12	1.16	3.6	2.7	0.7	0.1	0.42	0.83	1.62
Summary	32.20	74.4	56.6	21.8	8.6	18.73	28.34	42.13

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Station: **FIRTH, NE US**

GHCND:USC00252935
 Elev: 1339 ft. Lat: 40.535° N Lon: 96.608° 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	4.0	2.4	1.6	0.7	0.2	0.0	@	@	@	@	1.0	3.0	5.0
2	4.2	1.8	1.6	0.6	0.2	0.0	@	@	@	@	0.0	3.1	6.0
3	3.4	1.4	1.1	0.5	0.2	0.0	@	@	@	@	0.0	1.5	5.0
4	1.5	0.5	0.5	0.3	0.1	0.0	@	@	@	@	0.0	0.0	1.0
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	0.3	0.2	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	1.9	1.3	1.2	0.3	0.1	0.0	@	@	@	@	0.0	1.0	4.0
12	5.3	2.2	1.8	0.7	0.2	0.0	@	@	@	@	2.5	4.6	8.0
Summary	20.6	9.8	7.9	3.2	1.0	0.0	9999	9999	9999	9999	3.5	13.2	29.0

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

Station: **HOLDREGE, NE US**

GHCND:USC00253910

Elev: 2320 ft. Lat: 40.452° N Lon: 99.380° 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	36.7	14.6	25.7	6.3	4.8	5.4	0	0	0	0	0	0	910	972	1065	1220	0.0	0.0	5.3	11.3	30.5	3.2
2	40.4	18.2	29.3	6.8	5.0	5.7	-7777	-7777	-7777	0	0	0	720	776	859	999	0.0	0.0	7.6	7.8	25.9	2.1
3	50.9	26.3	38.6	5.0	3.6	3.9	7	4	1	-7777	-7777	0	515	574	665	819	0.0	-7777	16.7	3.2	22.2	0.5
4	62.4	36.3	49.4	4.8	2.7	3.4	55	39	22	7	1	1	224	269	341	476	0.0	0.3	24.5	0.3	9.1	0.0
5	71.8	48.0	59.9	3.9	2.7	3.1	199	157	104	43	11	6	47	67	107	201	0.0	1.0	30.6	0.0	0.6	0.0
6	82.2	58.0	70.1	3.5	2.7	3.0	455	397	312	185	85	57	2	4	9	32	0.4	5.8	30.0	0.0	0.0	0.0
7	87.0	63.1	75.0	2.9	1.8	2.2	621	559	467	315	175	128	0	-7777	-7777	3	1.0	11.1	31.0	0.0	0.0	0.0
8	85.0	61.3	73.1	3.7	2.3	2.9	563	501	409	262	134	94	-7777	-7777	2	9	0.4	8.6	31.0	0.0	0.0	0.0
9	77.3	51.6	64.4	3.3	2.5	2.7	304	254	186	94	36	22	21	31	53	111	0.1	2.8	29.7	0.0	0.2	0.0
10	64.5	39.2	51.9	3.4	2.1	2.4	74	53	29	8	2	1	172	212	282	416	0.0	0.2	27.3	0.3	5.7	0.0
11	49.4	26.5	38.0	5.7	3.9	4.5	5	2	1	-7777	0	0	517	574	662	811	0.0	0.0	14.8	3.1	21.8	0.1
12	37.6	16.8	27.2	6.2	5.3	5.6	0	0	0	0	0	0	862	924	1017	1172	0.0	0.0	5.5	9.9	30.2	2.4
Summary	62.1	38.3	50.2	4.6	3.3	3.7	2283	1966	1531	914	444	309	3990	4403	5062	6269	1.9	29.8	254.0	35.9	146.2	8.3

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Station: **HOLDREGE, NE US**

GHCND:USC00253910

Elev: 2320 ft. Lat: 40.452° N Lon: 99.380° 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	0.49	3.1	1.2	0.3	0.0	0.19	0.44	0.69
2	0.58	3.4	1.9	0.3	-7777	0.17	0.45	0.93
3	1.93	6.1	3.8	1.2	0.5	0.75	2.00	2.59
4	2.28	7.3	4.7	1.6	0.5	1.32	2.09	2.83
5	4.48	10.8	7.6	3.0	1.2	3.00	4.71	5.46
6	3.95	9.2	6.7	2.5	1.1	2.04	3.90	5.14
7	4.18	7.5	5.7	2.5	1.4	1.14	2.68	7.04
8	3.44	7.4	5.4	2.3	1.1	1.83	3.15	4.57
9	2.05	6.1	4.4	1.4	0.4	1.01	1.72	2.96
10	1.98	5.5	3.6	1.6	0.4	0.72	1.42	2.44
11	1.06	4.1	2.3	0.7	0.2	0.32	0.64	1.80
12	0.58	3.1	1.8	0.3	-7777	0.12	0.39	0.79
Summary	27.00	73.6	49.1	17.7	6.8	12.61	23.59	37.24

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **HOLDREGE, NE US**

GHCND:USC00253910
 Elev: 2320 ft. Lat: 40.452° N Lon: 99.380° 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	2.9	1.9	0.7	0.3	0.0	12.4	6.2	3.2	0.4	2.0	5.1	9.1
2	5.6	2.5	1.8	0.7	0.3	-7777	10.2	4.7	2.9	0.5	1.5	4.0	8.5
3	5.2	2.3	1.5	0.5	0.3	0.1	4.0	2.0	1.1	0.5	1.4	3.4	6.3
4	1.9	0.9	0.6	0.2	0.1	0.0	1.1	0.4	0.1	0.0	0.0	0.0	1.4
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	0.3	-7777	-7777	-7777	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
10	0.7	0.4	0.2	0.1	-7777	0.0	0.5	0.1	0.1	0.0	0.0	0.0	0.0
11	2.8	1.5	0.9	0.2	0.2	-7777	2.9	1.2	0.6	0.1	0.0	2.0	4.0
12	4.8	2.8	1.8	0.6	0.1	-7777	8.9	4.7	2.4	1.2	1.2	4.0	6.9
Summary	26.9	13.3	8.7	3.0	1.3	0.1	40.1	19.4	10.4	2.7	6.1	18.5	36.2

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: **HOLDREGE, NE US**

GHCND:USC00253910
Elev: 2320 ft. Lat: 40.452° N Lon: 99.380° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	27	116	309	617	903	1086	1027	734	385	100	12
45	3	9	57	196	465	753	931	872	586	258	50	2
50	-7777	2	23	112	322	604	776	718	441	152	20	-7777
55	0	-7777	7	55	199	455	621	563	304	74	5	0
60	0	-7777	1	22	104	312	467	409	186	29	1	0
Growing Degree Units for Corn (Monthly)												
50/86	19	32	100	207	366	579	721	677	456	242	78	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	40	156	465	1082	1985	3071	4098	4832	5217	5317	5329
45	3	12	69	265	730	1483	2414	3286	3872	4130	4180	4182
50	-7777	2	25	137	459	1063	1839	2557	2998	3150	3170	-7777
55	0	-7777	7	62	261	716	1337	1900	2204	2278	2283	2283
60	0	-7777	1	23	127	439	906	1315	1501	1530	1531	1531
Growing Degree Units for Corn (Monthly)												
50/86	19	51	151	358	724	1303	2024	2701	3157	3399	3477	3493

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: **MEAD 6 S, NE US**

GHCND:USC00255362

Elev: 1155 ft. Lat: 41.143° N Lon: 96.481° 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	33.3	11.6	22.5	6.8	6.0	6.2	0	0	0	0	0	0	1009	1071	1164	1319	0.0	0.0	3.5	13.5	30.6	6.1
2	37.8	15.9	26.9	6.7	5.9	6.1	-7777	-7777	-7777	0	0	0	788	844	928	1068	0.0	0.0	5.6	9.4	26.0	3.6
3	49.8	26.2	38.0	5.3	3.8	4.2	10	6	2	-7777	-7777	-7777	537	595	684	837	0.0	0.0	15.3	3.2	22.9	0.6
4	62.6	37.5	50.1	4.6	3.1	3.6	65	48	30	12	4	2	213	256	328	460	0.0	0.4	24.9	0.1	8.5	0.0
5	72.9	49.4	61.2	3.5	3.4	3.2	226	182	125	54	16	9	35	54	89	174	0.0	1.0	30.8	0.0	0.4	0.0
6	82.8	59.6	71.2	3.5	2.4	2.8	487	428	342	208	102	71	1	2	6	23	0.2	5.3	30.0	0.0	0.0	0.0
7	86.8	63.9	75.3	3.3	2.4	2.6	631	569	476	324	184	137	-7777	-7777	-7777	3	0.9	10.6	31.0	0.0	0.0	0.0
8	84.5	61.4	73.0	3.7	2.9	3.1	556	495	403	257	134	96	-7777	-7777	1	11	0.6	7.1	31.0	0.0	0.0	0.0
9	77.6	51.4	64.5	3.6	2.5	2.7	305	255	187	98	41	26	20	30	52	113	0.1	3.0	29.9	0.0	0.4	0.0
10	65.1	38.7	51.9	3.7	2.8	2.8	76	55	31	10	3	1	172	213	283	417	0.0	0.2	28.1	0.2	7.9	0.0
11	49.4	26.4	37.9	5.9	4.0	4.7	7	4	2	-7777	-7777	0	520	577	665	813	0.0	0.0	14.6	2.9	22.1	0.2
12	35.5	15.3	25.4	6.6	6.3	6.2	0	0	0	0	0	0	917	979	1072	1227	0.0	0.0	4.3	11.7	29.6	3.3
Summary	61.5	38.1	49.8	4.8	3.8	4.0	2363	2042	1598	963	484	342	4212	4621	5272	6465	1.8	27.6	249.0	41.0	148.4	13.8

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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: **MEAD 6 S, NE US**

GHCND:USC00255362

Elev: 1155 ft. Lat: 41.143° N Lon: 96.481° 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	0.57	3.7	1.6	0.2	-7777	0.24	0.51	0.85
2	0.66	4.2	1.8	0.2	-7777	0.26	0.55	0.84
3	1.76	6.4	3.8	0.9	0.3	0.72	1.61	2.80
4	2.82	8.4	5.8	2.0	0.5	1.43	2.76	4.03
5	4.27	11.1	7.8	2.6	1.1	2.74	4.30	5.74
6	4.55	9.5	6.8	2.9	1.4	1.82	4.10	6.55
7	3.52	8.2	5.7	2.4	1.0	2.52	3.26	3.97
8	3.70	8.4	5.6	2.5	1.0	1.62	2.46	6.17
9	3.13	6.8	4.6	2.1	1.0	1.86	2.94	4.24
10	2.08	6.4	4.3	1.4	0.3	0.86	1.65	2.45
11	1.48	4.6	2.8	1.2	0.3	0.52	1.19	2.44
12	0.85	4.5	2.1	0.5	0.1	0.24	0.62	0.93
Summary	29.39	82.2	52.7	18.9	7.0	14.83	25.95	41.01

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Station: **MEAD 6 S, NE US**

GHCND:USC00255362

Elev: 1155 ft. Lat: 41.143° N Lon: 96.481° 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	2.6	1.7	0.5	0.1	0.0	12.2	7.7	4.5	0.8	0.5	4.1	6.3
2	4.1	2.5	1.7	0.6	0.1	0.0	11.1	5.4	1.9	0.6	1.5	4.0	6.6
3	2.8	1.4	1.0	0.3	0.2	0.0	3.7	1.5	0.6	0.2	0.0	1.0	5.5
4	0.9	0.4	0.2	0.1	0.1	0.0	0.5	0.2	0.1	0.0	0.0	0.0	0.2
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	0.2	0.1	-7777	-7777	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
11	1.9	1.2	0.7	0.2	0.1	0.0	2.2	0.8	0.1	0.0	0.0	0.8	2.9
12	4.9	2.8	1.8	0.5	0.3	0.0	9.8	5.6	3.3	1.3	2.6	4.0	6.0
Summary	19.2	11.1	7.2	2.2	0.9	0.0	39.8	21.3	10.6	2.9	4.6	13.9	27.5

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

Station: **MEAD 6 S, NE US**

GHCND:USC00255362

Elev: 1155 ft. Lat: 41.143° N Lon: 96.481° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	21	111	327	656	936	1096	1021	735	385	99	8
45	1	7	58	214	502	786	941	866	586	258	51	2
50	-7777	2	27	126	355	636	786	711	441	153	22	-7777
55	0	-7777	10	65	226	487	631	556	305	76	7	0
60	0	-7777	2	30	125	342	476	403	187	31	2	0
Growing Degree Units for Corn (Monthly)												
50/86	11	23	90	213	397	614	735	678	466	252	78	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	27	138	465	1121	2057	3153	4174	4909	5294	5393	5401
45	1	8	66	280	782	1568	2509	3375	3961	4219	4270	4272
50	-7777	2	29	155	510	1146	1932	2643	3084	3237	3259	-7777
55	0	-7777	10	75	301	788	1419	1975	2280	2356	2363	2363
60	0	-7777	2	32	157	499	975	1378	1565	1596	1598	1598
Growing Degree Units for Corn (Monthly)												
50/86	11	34	124	337	734	1348	2083	2761	3227	3479	3557	3568

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: **BENNET, NE US**

GHCND:USC00250770

Elev: 1280 ft. Lat: 40.679° N Lon: 96.506° 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	0.79	4.5	2.3	0.1	0.0	0.44	0.66	1.14
2	1.04	5.1	2.7	0.3	0.1	0.55	0.88	1.25
3	2.28	7.3	4.7	1.8	0.4	1.17	2.06	3.34
4	3.14	8.8	6.0	1.7	0.7	2.22	3.07	3.69
5	5.55	11.7	8.5	3.3	1.5	3.41	4.26	6.40
6	4.65	9.4	6.9	3.0	1.5	2.68	4.76	6.03
7	4.19	8.2	6.5	2.8	1.5	2.39	3.72	5.41
8	4.12	7.5	6.0	2.6	1.2	2.52	3.45	5.33
9	3.41	6.6	4.7	2.0	1.0	2.22	3.29	4.46
10	2.69	6.1	4.1	1.4	0.5	1.14	2.13	3.82
11	1.70	6.2	3.9	1.3	0.4	0.93	1.28	2.82
12	1.28	5.1	2.6	0.6	0.3	0.37	0.84	2.03
Summary	34.84	86.5	58.9	20.9	9.1	20.04	30.40	45.72

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

Station: **BENNET, NE US**

GHCND:USC00250770
 Elev: 1280 ft. Lat: 40.679° N Lon: 96.506° 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	3.1	2.2	0.9	0.3	0.0	10.9	7.5	4.1	0.8	1.1	4.8	7.2
2	5.6	3.0	2.2	0.7	0.3	0.0	8.9	3.8	1.5	0.4	2.5	5.9	8.0
3	5.5	2.1	1.7	0.7	0.4	0.0	3.9	2.0	1.1	0.2	0.4	4.5	8.4
4	1.3	0.6	0.5	0.2	0.2	0.0	0.6	0.3	0.2	0.1	0.0	0.0	2.0
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	1.3	0.3	0.2	0.2	0.1	0.1	0.4	0.2	0.2	0.1	0.0	0.0	0.0
11	2.4	1.4	0.9	0.3	0.1	0.0	2.2	0.8	0.3	0.0	0.0	1.1	3.5
12	5.6	2.8	2.0	0.8	0.2	0.0	7.6	4.4	2.0	0.7	2.5	5.0	8.8
Summary	27.5	13.3	9.7	3.8	1.6	0.1	34.5	19.0	9.4	2.3	6.5	21.3	37.9

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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: **SUPERIOR 4 E, NE US**

GHCND:USC00258320
 Elev: 1621 ft. Lat: 40.031° N Lon: 97.984° 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	13.2	25.6	6.2	4.4	5.1	-7777	0	0	0	0	0	911	973	1066	1221	0.0	0.0	6.1	10.4	30.6	4.0
2	42.9	16.8	29.8	7.0	5.2	5.8	-7777	-7777	-7777	0	0	0	704	760	844	984	0.0	0.0	9.1	6.6	26.1	2.7
3	53.9	25.9	39.9	4.8	3.8	3.9	10	6	2	-7777	-7777	0	478	536	625	778	0.0	-7777	19.1	2.2	23.2	0.5
4	65.3	36.6	51.0	4.8	2.8	3.6	67	49	29	10	2	1	189	230	300	431	0.0	0.3	26.6	0.0	10.1	0.0
5	74.8	49.2	62.0	3.3	2.8	2.8	245	198	136	60	19	11	28	43	74	153	0.0	1.4	31.0	0.0	0.5	0.0
6	84.9	59.2	72.1	3.2	2.4	2.7	512	453	365	228	116	81	1	1	4	17	0.5	7.7	30.0	0.0	0.0	0.0
7	89.9	64.3	77.1	2.9	1.9	2.3	685	623	530	376	230	177	0	0	-7777	1	2.2	15.5	31.0	0.0	0.0	0.0
8	87.9	61.6	74.7	3.8	2.7	3.2	612	550	458	309	175	131	-7777	-7777	1	7	1.8	12.1	31.0	0.0	0.0	0.0
9	79.9	51.7	65.8	3.5	2.6	2.8	340	288	217	119	53	35	16	24	43	95	0.1	4.6	29.8	0.0	0.5	0.0
10	66.9	38.7	52.8	3.7	2.4	2.6	85	61	35	11	3	1	153	192	258	390	0.0	0.3	28.6	0.1	7.8	0.0
11	51.9	25.7	38.8	5.6	3.7	4.3	7	4	2	-7777	0	0	493	550	638	786	0.0	0.0	17.3	2.0	22.2	0.1
12	38.9	15.1	27.0	6.2	5.2	5.5	-7777	0	0	0	0	0	868	930	1023	1178	0.0	0.0	6.5	9.1	30.3	3.0
Summary	64.6	38.2	51.4	4.6	3.3	3.7	2563	2232	1774	1113	598	437	3841	4239	4876	6041	4.6	41.9	266.1	30.4	151.3	10.3

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
 -7777: a non-zero value that would round to zero
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Station: **SUPERIOR 4 E, NE US**

GHCND:USC00258320

Elev: 1621 ft. Lat: 40.031° N Lon: 97.984° 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	0.63	4.9	2.0	0.1	0.0	0.21	0.61	0.84
2	0.73	5.0	2.4	0.3	0.0	0.41	0.71	0.93
3	2.06	7.8	4.3	1.3	0.4	0.90	1.88	2.48
4	2.55	9.4	5.4	1.5	0.3	1.58	2.08	3.09
5	4.51	11.5	7.6	3.1	1.2	2.34	4.36	5.94
6	3.56	9.7	6.1	2.5	0.7	2.03	3.40	4.67
7	3.79	8.7	5.7	2.4	1.2	2.53	3.42	4.42
8	3.08	8.8	5.1	2.2	0.8	2.05	3.10	4.05
9	2.56	6.7	4.1	1.7	0.6	1.17	1.88	3.75
10	2.02	6.8	3.8	1.1	0.5	0.79	1.46	3.56
11	1.40	5.3	2.9	0.8	0.3	0.60	0.88	1.62
12	0.96	4.9	2.4	0.6	0.1	0.40	0.62	1.37
Summary	27.85	89.5	51.8	17.6	6.1	15.01	24.40	36.72

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Elev: 1621 ft. Lat: 40.031° N Lon: 97.984° 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	3.8	1.8	0.5	0.1	0.0	11.6	5.2	2.1	0.5	2.1	4.3	7.0
2	5.2	3.6	1.8	0.6	0.1	0.0	9.1	5.4	3.3	0.4	1.9	4.5	6.6
3	3.7	2.3	0.8	0.4	0.2	0.1	2.9	1.4	0.8	0.3	0.7	2.1	3.6
4	0.8	0.6	0.3	-7777	-7777	0.0	0.5	0.2	0.1	0.0	0.0	0.0	0.7
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	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.4	0.2	-7777	-7777	-7777	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0
11	2.8	2.0	0.7	0.3	0.2	0.0	2.2	1.1	0.6	0.1	0.3	1.1	3.8
12	5.2	3.4	1.7	0.6	0.2	-7777	10.2	5.2	2.5	0.5	1.0	5.0	7.6
Summary	23.2	15.9	7.1	2.4	0.8	0.1	36.7	18.6	9.5	1.8	6.0	17.0	29.3

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Elev: 1621 ft. Lat: 40.031° N Lon: 97.984° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	29	133	347	682	962	1150	1077	774	409	107	8
45	1	9	68	229	528	811	995	922	625	278	55	1
50	-7777	2	30	134	379	661	840	767	479	167	22	-7777
55	-7777	-7777	10	67	245	512	685	612	340	85	7	-7777
60	0	-7777	2	29	136	365	530	458	217	35	2	0
Growing Degree Units for Corn (Monthly)												
50/86	20	42	122	244	424	629	759	706	498	278	95	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	37	170	517	1199	2161	3311	4388	5162	5571	5678	5686
45	1	10	78	307	835	1646	2641	3563	4188	4466	4521	4522
50	-7777	2	32	166	545	1206	2046	2813	3292	3459	3481	-7777
55	-7777	-7777	10	77	322	834	1519	2131	2471	2556	2563	-7777
60	0	-7777	2	31	167	532	1062	1520	1737	1772	1774	1774
Growing Degree Units for Corn (Monthly)												
50/86	20	62	184	428	852	1481	2240	2946	3444	3722	3817	3835

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: **BROADWATER 3 WNW, NE US**

GHCND:USC00251189
 Elev: 3478 ft. Lat: 41.611° N Lon: 102.901° 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	9.7	24.8				0	0	0	0	0	0	938	1000	1093	1248	0.0	0.0	8.1	8.0	30.9	5.7
2	44.3	13.8	29.1				0	0	0	0	0	0	726	782	866	1006	0.0	0.0	9.5	4.2	27.7	2.8
3	52.1	21.1	36.6				3	2	1	-7777	0	0	574	634	726	880	0.0	0.0	17.8	3.4	28.0	0.9
4	62.1	31.2	46.7				15	8	3	1	-7777	-7777	265	319	403	551	0.0	0.0	25.2	0.2	15.5	0.0
5	71.8	42.2	57.0				136	102	61	22	4	2	74	103	154	270	0.0	1.5	30.2	0.0	2.3	0.0
6	82.0	51.8	66.9				366	312	235	124	48	31	9	15	28	67	1.5	6.3	30.0	0.0	0.0	0.0
7	90.2	57.6	73.9				586	524	431	281	147	102	-7777	-7777	1	6	2.2	16.9	31.0	0.0	0.0	0.0
8	87.8	54.8	71.3				506	445	354	215	99	63	1	1	4	20	0.9	13.7	31.0	0.0	0.0	0.0
9	78.4	43.8	61.1				213	169	112	44	10	4	31	46	79	161	0.0	3.6	29.9	0.0	1.1	0.0
10	65.0	30.1	47.6				32	19	8	1	-7777	-7777	263	312	394	541	0.0	1.2	27.4	0.5	17.6	0.0
11	50.0	18.4	34.2				-7777	-7777	-7777	0	0	0	624	684	774	924	0.0	0.0	15.7	2.6	29.5	0.5
12	40.2	8.7	24.5				0	0	0	0	0	0	947	1008	1101	1256	0.0	0.0	6.9	6.8	31.0	7.3
Summary	63.6	31.9	47.8	9999	9999	9999	1857	1581	1205	688	308	202	4452	4904	5623	6930	4.6	43.2	262.7	25.7	183.6	17.2

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Station: **BROADWATER 3 WNW, NE US**

GHCND:USC00251189

Elev: 3478 ft. Lat: 41.611° N Lon: 102.901° 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	0.27	@	@	@	@			
2	0.37	@	@	@	@			
3	0.90	@	@	@	@			
4	1.44	@	@	@	@			
5	2.88	@	@	@	@			
6	3.06	@	@	@	@			
7	2.35	@	@	@	@			
8	1.95	@	@	@	@			
9	1.64	@	@	@	@			
10	0.94	@	@	@	@			
11	0.55	@	@	@	@			
12	0.27	@	@	@	@			
Summary	16.62	9999	9999	9999	9999	9999	9999	9999

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Elev: 3478 ft. Lat: 41.611° N Lon: 102.901° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	11	83	237	528	807	1050	969	633	270	40	4
45	1	3	39	129	379	657	895	815	485	161	13	-7777
50	-7777	1	13	53	244	509	740	660	341	81	3	0
55	0	0	3	15	136	366	586	506	213	32	-7777	0
60	0	0	1	3	61	235	431	354	112	8	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	37	112	201	339	502	657	609	424	245	78	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	16	99	336	864	1671	2721	3690	4323	4593	4633	4637
45	1	4	43	172	551	1208	2103	2918	3403	3564	3577	-7777
50	-7777	1	14	67	311	820	1560	2220	2561	2642	2645	2645
55	0	0	3	18	154	520	1106	1612	1825	1857	-7777	1857
60	0	0	1	4	65	300	731	1085	1197	1205	-7777	1205
Growing Degree Units for Corn (Monthly)												
50/86	25	62	174	375	714	1216	1873	2482	2906	3151	3229	3250

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

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Station: **CLAY CENTER, NE US**

GHCND:USC00251684

Elev: 1749 ft. Lat: 40.521° N Lon: 98.054° 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	35.7	13.9	24.8	6.5	5.0	5.5	0	0	0	0	0	0	936	998	1091	1246	0.0	0.0	4.8	12.0	30.5	4.3
2	40.0	17.5	28.8	7.0	5.6	6.1	-7777	-7777	-7777	0	0	0	735	791	875	1015	0.0	0.0	7.1	8.4	26.1	2.7
3	51.2	26.6	38.9	5.0	3.6	3.9	9	5	2	-7777	0	0	508	566	656	809	0.0	0.0	16.6	2.9	22.6	0.4
4	63.0	36.7	49.8	4.4	2.8	3.3	58	42	24	8	2	1	213	256	328	462	0.0	0.3	24.8	0.1	8.7	0.0
5	72.4	48.7	60.6	3.7	2.9	3.0	211	169	112	47	14	7	39	58	95	185	0.0	1.0	30.7	0.0	0.5	0.0
6	82.9	58.9	70.9	3.6	2.8	3.1	479	420	334	202	98	67	2	3	7	26	0.3	5.9	30.0	0.0	0.0	0.0
7	87.2	63.8	75.5	2.9	1.8	2.1	635	573	480	328	187	138	0	0	-7777	2	1.2	11.8	31.0	0.0	0.0	0.0
8	85.4	61.6	73.5	3.8	2.3	2.9	573	512	420	272	142	101	-7777	-7777	1	8	0.7	8.8	31.0	0.0	0.0	0.0
9	77.8	51.7	64.7	3.3	2.5	2.5	313	262	193	100	39	24	20	29	50	107	0.1	3.0	29.8	0.0	0.5	0.0
10	65.2	39.3	52.2	3.9	2.4	2.7	79	56	31	10	2	1	164	203	272	405	0.0	0.4	27.8	0.2	6.5	0.0
11	50.2	26.6	38.4	6.0	3.8	4.6	6	3	1	-7777	0	0	504	561	649	798	0.0	0.0	15.5	3.0	21.8	0.0
12	37.5	16.5	27.0	6.3	5.6	5.8	0	0	0	0	0	0	868	930	1023	1178	0.0	0.0	5.6	10.2	30.2	2.7
Summary	62.4	38.5	50.4	4.7	3.4	3.8	2363	2042	1597	967	484	339	3989	4395	5047	6241	2.3	31.2	254.7	36.8	147.4	10.1

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	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	0.48	2.1	1.1	0.1	0.0	0.24	0.46	0.69
2	0.77	2.8	1.4	0.4	0.2	0.30	0.67	1.11
3	1.83	4.8	3.1	1.0	0.3	0.74	1.46	2.68
4	2.63	6.4	4.4	2.0	0.8	1.60	2.38	3.41
5	5.05	9.2	7.2	3.7	1.5	3.33	5.29	6.31
6	4.22	8.0	5.8	2.8	1.5	2.58	3.78	5.85
7	3.88	7.1	5.3	2.4	1.3	1.36	2.86	5.31
8	3.47	6.6	5.1	2.3	1.2	2.55	3.31	4.51
9	2.45	5.8	4.2	1.5	0.7	1.18	2.22	3.43
10	2.06	5.0	3.5	1.8	0.9	0.71	1.83	2.89
11	1.17	3.5	2.2	1.0	0.3	0.27	0.81	1.94
12	0.77	3.4	1.7	0.4	0.1	0.38	0.70	1.09
Summary	28.78	64.7	45.0	19.4	8.8	15.24	25.77	39.22

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **CLAY CENTER, NE US**

GHCND:USC00251684
 Elev: 1749 ft. Lat: 40.521° N Lon: 98.054° 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	2.2	1.9	0.6	0.2	-7777	@	@	@	@	2.8	5.3	6.0
2	2.9	1.5	0.9	0.5	0.2	-7777	@	@	@	@	0.4	1.9	5.4
3	1.5	0.8	0.6	0.3	-7777	0.0	@	@	@	@	0.0	0.1	1.6
4	0.9	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	0.1	0.1	0.1	0.1	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	1.7	0.6	0.4	0.2	0.2	-7777	@	@	@	@	0.0	0.0	2.0
12	2.4	1.9	1.2	0.4	0.1	0.0	@	@	@	@	0.0	2.0	4.0
Summary	14.7	7.3	5.2	2.2	0.8	0.0	9999	9999	9999	9999	3.2	9.3	19.0

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

Station: **CLAY CENTER, NE US**

GHCND:USC00251684
Elev: 1749 ft. Lat: 40.521° N Lon: 98.054° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	29	120	320	637	927	1100	1038	743	395	107	11
45	2	9	60	205	484	777	945	883	595	265	55	2
50	-7777	2	25	117	339	627	790	728	450	158	22	-7777
55	0	-7777	9	58	211	479	635	573	313	79	6	0
60	0	-7777	2	24	112	334	480	420	193	31	1	0
Growing Degree Units for Corn (Monthly)												
50/86	16	32	101	214	381	604	735	686	466	252	85	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	39	159	479	1116	2043	3143	4181	4924	5319	5426	5437
45	2	11	71	276	760	1537	2482	3365	3960	4225	4280	4282
50	-7777	2	27	144	483	1110	1900	2628	3078	3236	3258	-7777
55	0	-7777	9	67	278	757	1392	1965	2278	2357	2363	2363
60	0	-7777	2	26	138	472	952	1372	1565	1596	1597	1597
Growing Degree Units for Corn (Monthly)												
50/86	16	48	149	363	744	1348	2083	2769	3235	3487	3572	3588

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: **DALTON, NE US**

GHCND:USC00252145
Elev: 4278 ft. Lat: 41.409° N Lon: 102.966° 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	38.8	16.5	27.6	5.2	4.1	4.5	-7777	0	0	0	0	0	848	910	1003	1158	0.0	0.0	5.9	8.2	29.5	2.7
2	41.3	17.7	29.5	5.7	5.1	5.2	-7777	-7777	0	0	0	0	714	770	854	994	0.0	0.0	7.9	6.3	26.3	2.5
3	49.3	24.5	36.9	4.0	3.1	3.3	3	1	-7777	-7777	0	0	564	624	716	871	0.0	0.0	16.3	4.0	25.6	0.5
4	58.9	32.0	45.4	4.6	2.5	3.2	22	14	6	1	-7777	-7777	309	360	442	587	0.0	-7777	22.3	0.8	14.9	0.0
5	68.5	42.5	55.5	3.8	2.1	2.8	112	81	45	11	1	-7777	97	128	184	306	0.0	0.2	29.4	0.0	1.8	0.0
6	78.5	52.0	65.3	3.8	2.4	2.9	319	266	192	90	29	16	12	19	34	83	-7777	3.0	29.9	0.0	0.0	0.0
7	86.3	58.0	72.2	3.1	1.9	2.4	532	470	379	232	106	69	-7777	1	3	10	0.4	10.5	31.0	0.0	0.0	0.0
8	84.0	56.0	70.0	2.8	2.1	2.3	466	405	316	176	67	38	1	2	6	22	0.0	6.1	31.0	0.0	0.0	0.0
9	74.4	46.1	60.3	3.3	2.3	2.6	205	161	105	40	8	3	47	64	98	182	0.0	1.0	29.2	-7777	1.1	0.0
10	61.1	34.5	47.8	3.6	2.5	2.6	31	19	8	1	-7777	-7777	255	304	386	534	0.0	0.0	25.1	0.6	10.5	-7777
11	47.8	24.7	36.3	5.3	3.1	4.0	2	1	-7777	0	0	0	564	623	713	862	0.0	0.0	13.6	3.8	23.4	0.6
12	38.2	16.2	27.2	5.9	4.7	5.2	-7777	0	0	0	0	0	862	924	1016	1171	0.0	0.0	5.6	9.1	29.3	2.8
Summary	60.6	35.1	47.8	4.3	3.0	3.4	1692	1418	1051	551	211	126	4273	4729	5455	6780	0.4	20.8	247.2	32.8	162.4	9.1

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1981-2010**

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

Station: **DALTON, NE US**

GHCND:USC00252145
Elev: 4278 ft. Lat: 41.409° N Lon: 102.966° 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	0.35	3.2	1.4	0.1	0.0	0.15	0.34	0.46
2	0.55	4.1	1.8	0.1	-7777	0.20	0.43	0.84
3	1.26	6.2	3.6	0.5	0.2	0.67	0.99	1.71
4	2.06	7.8	4.4	1.4	0.4	0.94	1.89	2.56
5	3.11	10.1	6.8	2.2	0.6	1.98	2.93	4.40
6	3.29	9.7	6.6	2.0	0.6	1.60	2.63	4.40
7	2.78	7.7	5.2	1.7	0.6	1.57	2.38	4.12
8	1.98	7.2	4.6	1.4	0.2	1.28	1.76	2.70
9	1.63	6.1	3.7	1.1	0.3	0.65	1.35	2.23
10	1.43	5.8	3.8	0.8	0.2	0.69	1.14	1.96
11	0.71	3.7	2.2	0.4	0.0	0.28	0.66	1.04
12	0.62	3.8	2.0	0.1	-7777	0.23	0.42	0.70
Summary	19.77	75.4	46.1	11.8	3.1	10.24	16.92	27.12

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Station: **DALTON, NE US**

GHCND:USC00252145
 Elev: 4278 ft. Lat: 41.409° N Lon: 102.966° 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	7.3	2.1	2.0	0.8	0.3	0.1	@	@	@	@	2.0	8.5	11.0
2	6.9	3.0	2.7	1.1	0.5	-7777	@	@	@	@	3.7	5.8	11.0
3	10.4	3.2	2.9	1.2	0.5	0.1	@	@	@	@	4.0	9.0	16.0
4	7.4	1.3	1.2	1.0	0.5	0.2	@	@	@	@	0.9	4.0	11.0
5	1.1	0.2	0.2	0.1	0.1	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	0.1	0.1	0.1	0.0	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	3.0	0.8	0.7	0.4	0.3	0.0	@	@	@	@	0.0	0.2	5.0
11	5.9	2.0	2.0	0.9	0.4	0.1	@	@	@	@	2.0	4.3	9.0
12	11.2	2.6	2.5	1.2	0.5	0.2	@	@	@	@	3.0	7.5	22.0
Summary	53.3	15.3	14.3	6.7	3.1	0.7	9999	9999	9999	9999	15.6	39.3	85.0

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Station: DALTON, NE US

GHCND:USC00252145
Elev: 4278 ft. Lat: 41.409° N Lon: 102.966° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	22	88	218	484	758	996	929	610	281	81	16
45	3	6	38	125	340	608	841	775	466	169	37	4
50	-7777	1	13	61	212	460	686	620	327	84	11	-7777
55	-7777	-7777	3	22	112	319	532	466	205	31	2	-7777
60	0	0	-7777	6	45	192	379	316	105	8	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	28	83	166	296	468	640	596	380	196	69	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	36	124	342	826	1584	2580	3509	4119	4400	4481	4497
45	3	9	47	172	512	1120	1961	2736	3202	3371	3408	3412
50	-7777	1	14	75	287	747	1433	2053	2380	2464	2475	-7777
55	-7777	-7777	3	25	137	456	988	1454	1659	1690	1692	-7777
60	0	0	-7777	6	51	243	622	938	1043	1051	-7777	1051
Growing Degree Units for Corn (Monthly)												
50/86	18	46	129	295	591	1059	1699	2295	2675	2871	2940	2958

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

Station: **WALTHILL, NE US**

GHCND:USC00258935

Elev: 1280 ft. Lat: 42.150° N Lon: 96.476° 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	30.8	10.6	20.7	6.7	5.8	6.1	-7777	0	0	0	0	0	1063	1125	1218	1373	0.0	0.0	2.0	15.6	30.6	7.2
2	35.5	14.5	25.0	6.8	6.3	6.3	-7777	-7777	-7777	0	0	0	840	896	980	1120	0.0	0.0	4.6	11.2	26.2	4.5
3	47.5	24.6	36.0	5.5	3.4	4.1	6	3	1	-7777	-7777	-7777	593	652	744	898	0.0	0.0	13.2	4.1	23.9	0.7
4	61.7	36.3	49.0	4.8	3.5	3.9	58	44	27	10	2	1	238	284	357	490	0.0	0.2	24.4	0.3	10.2	0.0
5	73.1	49.1	61.1	3.8	3.2	3.2	228	184	127	57	19	10	39	57	93	178	0.0	1.0	30.6	0.0	0.8	0.0
6	82.5	59.4	71.0	3.4	2.6	2.8	480	421	335	203	98	68	1	3	7	25	0.2	4.1	30.0	0.0	0.0	0.0
7	86.6	64.0	75.3	3.3	2.5	2.7	629	567	474	322	184	137	-7777	-7777	-7777	3	0.6	9.5	31.0	0.0	0.0	0.0
8	84.1	61.3	72.7	3.4	2.9	3.1	549	487	396	252	129	90	-7777	-7777	2	14	0.1	6.1	31.0	0.0	0.0	0.0
9	77.3	51.1	64.2	3.4	2.6	2.7	299	250	184	98	40	25	24	34	58	122	0.0	2.2	29.8	0.0	1.0	0.0
10	63.7	37.8	50.7	3.9	2.9	2.9	67	48	28	9	2	1	199	242	314	451	0.0	0.1	26.8	0.2	9.3	0.0
11	46.7	25.4	36.0	6.3	4.3	5.0	4	2	1	-7777	0	0	573	631	720	869	0.0	0.0	12.2	4.0	22.4	0.4
12	31.9	13.4	22.7	6.7	6.1	6.2	-7777	0	0	0	0	0	1002	1064	1158	1313	0.0	0.0	2.0	14.5	29.9	4.8
Summary	60.1	37.3	48.7	4.8	3.8	4.1	2320	2006	1573	951	474	332	4572	4988	5651	6856	0.9	23.2	237.6	49.9	154.3	17.6

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www.ncdc.noaa.gov

Station: **WALTHILL, NE US**

GHCND:USC00258935

Elev: 1280 ft. Lat: 42.150° N Lon: 96.476° 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	0.68	3.7	2.2	0.2	0.0	0.28	0.68	1.01
2	0.79	3.7	2.3	0.4	0.1	0.37	0.77	1.01
3	2.15	6.0	4.4	1.5	0.4	1.10	1.80	2.94
4	3.27	7.8	5.7	2.4	1.1	1.65	2.79	3.94
5	4.00	9.6	7.0	3.0	0.9	2.87	3.58	5.54
6	4.49	9.4	7.2	3.0	1.3	2.56	3.55	6.51
7	3.73	8.0	6.0	2.7	0.9	1.64	3.06	4.90
8	3.09	7.2	5.2	2.0	0.9	1.63	2.91	4.23
9	2.88	6.8	5.0	1.9	0.7	1.27	2.69	3.97
10	2.13	5.6	4.3	1.5	0.6	0.80	2.10	3.32
11	1.61	4.2	3.1	1.0	0.3	0.66	1.27	2.28
12	0.95	4.1	2.9	0.5	0.1	0.51	0.77	1.18
Summary	29.77	76.1	55.3	20.1	7.3	15.34	25.97	40.83

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Station: **WALTHILL, NE US**

GHCND:USC00258935
 Elev: 1280 ft. Lat: 42.150° N Lon: 96.476° 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	3.0	2.2	0.7	0.3	-7777	15.6	8.9	5.0	1.7	2.5	4.7	8.0
2	6.8	2.6	2.2	0.9	0.5	-7777	13.7	9.2	6.1	2.2	2.7	6.5	10.0
3	5.7	2.0	1.6	0.7	0.5	0.1	5.5	3.1	1.6	0.3	2.0	3.1	10.0
4	2.4	0.8	0.8	0.4	0.1	0.0	0.8	0.5	0.3	-7777	0.0	0.3	4.0
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	0.7	0.2	0.2	0.1	-7777	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
11	4.4	2.0	1.5	0.5	0.2	-7777	3.5	1.7	1.1	0.5	0.9	2.2	7.0
12	6.7	3.2	2.4	0.9	0.4	-7777	13.0	7.0	3.1	0.6	3.0	5.3	8.9
Summary	32.1	13.8	10.9	4.2	2.0	0.1	52.3	30.5	17.2	5.3	11.1	22.1	47.9

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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: **WALTHILL, NE US**

GHCND:USC00258935

Elev: 1280 ft. Lat: 42.150° N Lon: 96.476° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	14	83	301	654	928	1094	1013	726	355	79	3
45	-7777	4	40	194	502	778	939	858	578	233	39	1
50	-7777	1	16	112	356	628	784	703	434	135	16	-7777
55	-7777	-7777	6	58	228	480	629	549	299	67	4	-7777
60	0	-7777	1	27	127	335	474	396	184	28	1	0
Growing Degree Units for Corn (Monthly)												
50/86	6	15	70	202	403	613	739	679	468	235	58	5

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	3	17	100	401	1055	1983	3077	4090	4816	5171	5250	5253
45	-7777	4	44	238	740	1518	2457	3315	3893	4126	4165	4166
50	-7777	1	17	129	485	1113	1897	2600	3034	3169	3185	-7777
55	-7777	-7777	6	64	292	772	1401	1950	2249	2316	2320	-7777
60	0	-7777	1	28	155	490	964	1360	1544	1572	1573	1573
Growing Degree Units for Corn (Monthly)												
50/86	6	21	91	293	696	1309	2048	2727	3195	3430	3488	3493

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: **SPENCER 5 SSE, NE US**

GHCND:USC00258040

Elev: 1529 ft. Lat: 42.810° N Lon: 98.656° 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	0.32	2.7	1.2	0.1	0.0	0.13	0.25	0.42
2	0.43	3.5	1.5	0.1	0.0	0.19	0.34	0.59
3	1.29	5.2	3.4	0.6	0.2	0.62	0.97	1.47
4	2.70	7.7	5.4	1.8	0.4	1.31	2.07	3.86
5	3.56	8.9	6.9	2.6	1.2	2.35	3.33	4.78
6	3.01	8.7	6.2	2.1	0.8	1.87	2.83	4.23
7	2.60	7.3	5.5	1.9	0.7	1.59	2.23	3.63
8	2.66	6.8	5.0	1.6	0.7	1.25	2.78	3.21
9	2.44	6.2	4.2	1.5	0.7	1.11	1.93	3.22
10	2.00	5.6	3.8	1.4	0.6	0.68	1.59	3.15
11	0.87	4.2	2.1	0.5	0.1	0.22	0.62	1.13
12	0.50	3.6	1.5	0.1	-7777	0.11	0.38	0.60
Summary	22.38	70.4	46.7	14.3	5.4	11.43	19.32	30.29

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

Station: **SPENCER 5 SSE, NE US**

GHCND:USC00258040
 Elev: 1529 ft. Lat: 42.810° N Lon: 98.656° 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	2.4	1.7	0.6	0.3	-7777	14.4	9.2	5.3	0.9	1.1	3.5	6.5
2	5.6	2.6	2.0	0.6	0.2	-7777	10.1	6.4	4.9	1.9	1.6	4.3	7.0
3	7.3	2.8	2.4	0.9	0.4	-7777	6.7	3.8	2.2	0.6	2.0	5.5	9.0
4	3.1	1.1	0.9	0.5	0.3	0.0	1.7	0.9	0.4	0.1	0.0	0.0	3.7
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.9	0.5	0.4	0.2	-7777	0.0	0.6	0.2	-7777	0.0	0.0	0.0	0.0
11	4.7	2.5	1.5	0.6	0.3	-7777	5.9	3.4	2.1	0.4	0.5	3.0	9.0
12	5.5	3.0	2.5	0.9	0.3	0.0	13.2	8.4	4.3	1.5	1.3	4.4	11.5
Summary	31.4	14.9	11.4	4.3	1.8	0.0	52.6	32.3	19.2	5.4	6.5	20.7	46.7

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1981-2010**

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

Station: **EDISON, NE US**

GHCND:USC00252560

Elev: 2119 ft. Lat: 40.276° N Lon: 99.784° 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	0.44	@	@	@	@			
2	0.57	@	@	@	@			
3	1.57	@	@	@	@			
4	2.13	@	@	@	@			
5	3.37	@	@	@	@			
6	3.69	@	@	@	@			
7	3.40	@	@	@	@			
8	3.25	@	@	@	@			
9	1.93	@	@	@	@			
10	1.96	@	@	@	@			
11	0.94	@	@	@	@			
12	0.62	@	@	@	@			
Summary	23.87	9999	9999	9999	9999	9999	9999	9999

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1981-2010**

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

Station: **CLAY CENTER 6 ESE, NE US**

GHCND:USC00251680

Elev: 1732 ft. Lat: 40.503° N Lon: 97.937° 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	0.50	3.8	1.7	0.2	0.0	0.17	0.43	0.81
2	0.62	4.4	1.7	0.2	0.0	0.28	0.58	0.86
3	1.88	6.3	4.1	1.0	0.3	0.76	1.69	2.58
4	2.28	7.1	4.8	1.8	0.5	1.26	2.18	3.14
5	4.39	10.0	7.7	3.1	1.0	2.66	4.89	5.54
6	3.84	8.9	6.4	2.7	1.1	2.50	3.82	4.74
7	3.68	7.2	5.2	2.3	1.1	1.71	2.72	4.50
8	3.36	7.2	5.5	2.2	0.9	2.20	3.15	4.60
9	2.55	5.9	4.2	1.6	0.7	1.20	1.98	3.68
10	2.17	5.8	3.8	1.4	0.6	0.91	1.80	3.43
11	1.44	4.7	2.8	0.9	0.4	0.48	1.26	2.25
12	0.79	4.2	2.1	0.4	0.1	0.16	0.62	1.04
Summary	27.50	75.5	50.0	17.8	6.7	14.29	25.12	37.17

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

Station: **CLAY CENTER 6 ESE, NE US**

GHCND:USC00251680
 Elev: 1732 ft. Lat: 40.503° N Lon: 97.937° 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	4.9	3.1	1.8	0.6	0.3	0.0	14.1	8.4	4.9	1.6	1.5	3.8	6.2
2	5.6	3.3	1.9	0.8	0.3	0.0	12.2	6.4	3.6	0.9	3.1	4.5	7.4
3	3.9	1.9	1.3	0.6	0.2	-7777	4.3	2.0	1.2	0.2	0.5	1.9	5.7
4	1.0	0.5	0.4	0.1	0.1	0.0	1.0	0.3	0.1	0.0	0.0	0.0	1.0
5	-7777	-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	0.2	0.1	0.1	-7777	-7777	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.2	0.2	0.1	-7777	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.3	1.6	1.0	0.2	0.1	-7777	2.8	1.0	0.7	0.2	0.0	1.2	2.6
12	5.2	2.9	1.9	0.6	0.3	0.0	10.5	5.4	3.3	1.5	1.4	4.4	6.4
Summary	23.9	13.6	8.6	3.0	1.3	0.0	45.3	23.7	13.9	4.5	6.5	15.8	29.3

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

Station: **HERSHEY 5 SSE, NE US**

GHCND:USC00253810
Elev: 2953 ft. Lat: 41.106° N Lon: 100.978° 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	14.2	26.1	6.3	4.4	5.2	-7777	0	0	0	0	0	896	958	1051	1206	0.0	0.0	6.0	9.7	30.6	3.8
2	42.4	17.1	29.8	7.0	4.9	5.6	-7777	-7777	0	0	0	0	707	763	847	987	0.0	0.0	9.2	6.7	26.9	2.6
3	51.5	24.1	37.8	4.3	3.6	3.7	3	1	-7777	-7777	0	0	537	597	689	843	0.0	0.0	17.7	3.3	25.6	0.6
4	61.8	32.6	47.2	4.4	2.7	3.2	36	25	13	3	-7777	-7777	270	319	397	537	0.0	0.3	23.8	0.5	14.5	0.0
5	71.6	44.0	57.8	3.7	2.4	2.7	156	119	73	24	4	2	69	94	141	247	-7777	0.9	30.3	0.0	1.9	0.0
6	81.3	53.9	67.6	4.3	2.7	3.2	384	327	245	129	52	33	6	9	17	51	0.4	5.1	29.9	0.0	-7777	0.0
7	88.1	60.0	74.1	3.4	2.0	2.5	590	529	436	287	155	111	-7777	-7777	1	7	2.1	13.2	31.0	0.0	0.0	0.0
8	86.7	58.1	72.4	3.7	2.4	2.9	540	478	387	243	120	82	1	1	3	13	0.9	11.5	31.0	0.0	0.0	0.0
9	78.4	47.7	63.0	3.8	2.9	3.0	270	222	158	75	26	15	29	41	67	133	0.1	4.1	29.5	0.0	0.8	0.0
10	65.4	35.8	50.6	4.3	2.4	2.9	62	42	21	5	-7777	-7777	198	240	313	451	0.0	0.4	27.1	0.4	9.4	0.0
11	50.5	24.1	37.3	5.8	3.2	4.2	4	2	-7777	-7777	0	0	535	593	681	831	0.0	0.0	16.2	3.5	24.6	0.4
12	39.0	14.4	26.7	6.6	5.1	5.7	-7777	0	0	0	0	0	877	939	1032	1187	0.0	0.0	6.9	8.8	30.8	3.2
Summary	62.9	35.5	49.2	4.8	3.2	3.7	2045	1745	1333	766	357	243	4125	4554	5239	6493	3.5	35.5	258.6	32.9	165.1	10.6

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

Station: **HERSHEY 5 SSE, NE US**

GHCND:USC00253810

Elev: 2953 ft. Lat: 41.106° N Lon: 100.978° 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	0.37	3.0	1.1	0.2	0.0	0.12	0.17	0.39
2	0.38	3.8	1.1	0.1	0.0	0.10	0.22	0.61
3	0.95	5.5	2.3	0.6	0.2	0.22	0.64	1.50
4	2.08	7.3	4.2	1.4	0.4	1.15	2.01	2.74
5	3.23	10.0	6.4	1.8	0.6	2.22	2.89	4.50
6	3.76	8.9	6.2	2.3	0.7	2.12	3.82	4.70
7	2.89	8.1	5.5	2.1	0.7	1.68	3.05	3.72
8	2.20	6.1	3.9	1.7	0.6	1.22	1.84	2.80
9	1.52	5.6	3.3	0.9	0.2	0.84	1.42	2.53
10	1.66	5.7	3.2	1.0	0.3	0.51	1.29	2.35
11	0.56	3.4	1.4	0.4	-7777	0.17	0.42	0.84
12	0.29	3.0	0.8	0.1	0.0	0.03	0.17	0.35
Summary	19.89	70.4	39.4	12.6	3.7	10.38	17.94	27.03

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

Station: **HERSHEY 5 SSE, NE US**

GHCND:USC00253810
 Elev: 2953 ft. Lat: 41.106° N Lon: 100.978° 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	2.9	1.8	0.3	0.2	-7777	@	@	@	@	1.0	4.0	5.5
2	4.6	3.2	2.0	0.7	0.1	0.0	@	@	@	@	1.8	4.5	7.2
3	5.2	2.7	2.0	0.6	0.2	0.0	@	@	@	@	1.0	4.5	8.0
4	3.7	1.5	1.1	0.6	0.2	-7777	@	@	@	@	0.0	2.0	4.8
5	-7777	-7777	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	0.2	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.7	0.6	0.5	0.2	0.1	-7777	@	@	@	@	0.0	0.0	2.0
11	3.4	1.8	1.4	0.5	0.2	0.0	@	@	@	@	0.5	1.0	6.0
12	6.3	2.5	1.8	0.7	0.2	0.0	@	@	@	@	1.0	5.4	11.0
Summary	28.8	15.3	10.7	3.6	1.2	0.0	9999	9999	9999	9999	5.3	21.4	44.5

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 -4444: year-round risk of frost-freeze
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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: **HERSHEY 5 SSE, NE US**

GHCND:USC00253810
Elev: 2953 ft. Lat: 41.106° N Lon: 100.978° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	29	101	257	552	828	1055	1004	692	354	95	12
45	2	9	45	156	403	678	900	849	545	233	46	2
50	-7777	2	15	82	267	530	745	694	403	132	17	-7777
55	-7777	-7777	3	36	156	384	590	540	270	62	4	-7777
60	0	0	-7777	13	73	245	436	387	158	21	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	42	105	200	344	517	679	643	436	253	93	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	41	142	399	951	1779	2834	3838	4530	4884	4979	4991
45	2	11	56	212	615	1293	2193	3042	3587	3820	3866	3868
50	-7777	2	17	99	366	896	1641	2335	2738	2870	2887	-7777
55	-7777	-7777	3	39	195	579	1169	1709	1979	2041	2045	-7777
60	0	0	-7777	13	86	331	767	1154	1312	1333	-7777	1333
Growing Degree Units for Corn (Monthly)												
50/86	21	63	168	368	712	1229	1908	2551	2987	3240	3333	3357

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **HAY SPRINGS, NE US**

GHCND:USC00253710
 Elev: 3855 ft. Lat: 42.683° N Lon: 102.693° 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	11.7	24.9	5.8	4.9	5.2	0	0	0	0	0	0	933	995	1088	1243	0.0	0.0	5.7	9.1	30.6	5.8
2	41.1	14.1	27.6	5.8	5.3	5.4	0	0	0	0	0	0	767	823	907	1047	0.0	0.0	7.9	7.0	27.5	3.7
3	49.4	21.9	35.7	5.0	3.6	4.1	2	1	-7777	-7777	0	0	602	662	755	910	0.0	0.0	16.1	4.1	27.8	0.9
4	59.3	30.3	44.8	4.8	2.5	3.2	23	14	6	1	-7777	0	329	380	462	607	0.0	0.0	22.4	0.9	17.5	-7777
5	68.5	41.5	55.0	3.9	2.2	2.8	109	80	45	12	1	-7777	109	142	200	322	0.0	0.4	29.2	0.0	3.7	0.0
6	78.0	51.2	64.6	4.2	2.6	3.2	302	250	178	84	27	15	14	22	40	96	0.1	3.0	29.8	0.0	-7777	0.0
7	86.1	57.8	72.0	3.2	2.5	2.7	525	464	373	230	112	74	-7777	1	3	15	0.8	10.1	31.0	0.0	0.0	0.0
8	84.9	55.7	70.3	2.8	2.4	2.4	477	416	328	189	80	50	3	4	9	25	0.3	9.4	31.0	0.0	0.0	0.0
9	75.4	44.5	59.9	3.6	2.6	2.8	203	161	109	46	11	5	54	73	111	197	0.0	2.4	29.0	0.0	1.8	0.0
10	62.4	31.7	47.0	3.8	2.6	2.7	28	17	7	1	-7777	-7777	274	325	408	557	0.0	0.1	25.4	0.5	14.8	0.1
11	47.9	20.2	34.0	6.7	4.0	5.1	1	1	-7777	0	0	0	630	689	779	928	0.0	0.0	13.2	4.7	26.8	1.6
12	37.8	11.5	24.6	5.6	5.3	5.4	0	0	0	0	0	0	941	1003	1096	1250	0.0	0.0	5.3	9.4	30.6	5.0
Summary	60.7	32.7	46.7	4.6	3.4	3.8	1670	1404	1046	563	231	144	4656	5119	5858	7197	1.2	25.4	246.0	35.7	181.1	17.1

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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: **HAY SPRINGS, NE US**

GHCND:USC00253710

Elev: 3855 ft. Lat: 42.683° N Lon: 102.693° 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	0.41	3.9	1.8	0.1	0.0	0.15	0.26	0.53
2	0.51	4.0	1.6	0.1	-7777	0.27	0.44	0.65
3	1.25	6.2	3.5	0.5	0.1	0.51	1.09	1.83
4	2.16	8.4	5.7	1.2	0.2	1.31	2.15	2.67
5	2.69	10.0	6.1	1.5	0.4	1.29	2.29	3.69
6	2.86	10.1	6.9	1.8	0.5	1.57	2.73	3.80
7	2.54	8.7	5.2	1.7	0.5	1.65	2.12	2.93
8	1.76	6.3	3.8	1.1	0.3	1.02	1.62	2.28
9	1.59	6.4	3.8	0.9	0.3	0.84	1.12	2.63
10	1.45	5.1	3.5	0.8	0.2	0.57	1.24	1.95
11	0.78	4.7	2.4	0.2	-7777	0.44	0.67	1.05
12	0.59	4.0	1.7	0.1	0.0	0.28	0.50	0.81
Summary	18.59	77.8	46.0	10.0	2.5	9.90	16.23	24.82

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Station: **HAY SPRINGS, NE US**

GHCND:USC00253710
 Elev: 3855 ft. Lat: 42.683° N Lon: 102.693° 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	3.5	2.6	0.8	0.3	0.0	12.0	5.0	1.4	0.0	3.0	4.7	6.3
2	5.6	3.1	2.3	0.8	0.3	-7777	6.7	3.4	1.8	0.1	1.0	4.3	8.0
3	6.5	3.9	2.7	0.9	0.3	0.1	6.0	2.8	1.6	0.2	2.9	4.2	9.2
4	4.7	1.9	1.6	0.8	0.3	0.0	2.1	0.8	0.4	-7777	1.0	4.7	8.0
5	0.7	0.2	0.2	0.1	-7777	0.0	0.4	0.3	0.2	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	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
10	1.9	0.9	0.7	0.3	0.1	0.0	1.2	0.7	0.3	0.1	0.0	1.0	3.3
11	6.2	3.5	3.0	1.0	0.3	-7777	7.0	3.6	1.2	0.0	3.8	6.3	8.3
12	5.6	3.2	2.8	1.1	0.3	-7777	10.8	4.7	1.6	0.5	1.9	4.7	7.8
Summary	36.1	20.3	16.0	5.9	1.9	0.1	46.3	21.4	8.5	0.9	13.6	29.9	50.9

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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: **HAY SPRINGS, NE US**

GHCND:USC00253710
Elev: 3855 ft. Lat: 42.683° N Lon: 102.693° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	14	75	209	469	738	990	939	601	262	67	7
45	1	3	29	119	328	589	835	784	458	154	28	1
50	-7777	-7777	9	58	205	442	680	630	321	75	8	-7777
55	0	0	2	23	109	302	525	477	203	28	1	0
60	0	0	-7777	6	45	178	373	328	109	7	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	17	28	87	174	296	455	633	599	388	213	78	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	23	98	307	776	1514	2504	3443	4044	4306	4373	4380
45	1	4	33	152	480	1069	1904	2688	3146	3300	3328	3329
50	-7777	-7777	9	67	272	714	1394	2024	2345	2420	2428	-7777
55	0	0	2	25	134	436	961	1438	1641	1669	1670	1670
60	0	0	-7777	6	51	229	602	930	1039	1046	-7777	1046
Growing Degree Units for Corn (Monthly)												
50/86	17	45	132	306	602	1057	1690	2289	2677	2890	2968	2985

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: **MEADOW GROVE, NE US**

GHCND:USC00255370

Elev: 1631 ft. Lat: 42.029° N Lon: 97.739° 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	0.51	2.8	1.4	0.2	0.1	0.20	0.39	0.73
2	0.71	3.4	1.9	0.4	0.1	0.31	0.58	0.97
3	1.81	5.2	4.0	1.3	0.6	0.64	1.33	2.76
4	2.74	6.8	5.4	1.4	0.7	1.46	2.43	3.49
5	3.49	9.0	7.0	2.4	0.9	2.25	3.21	4.20
6	4.21	8.2	6.8	2.2	1.3	2.43	4.41	5.47
7	3.12	7.2	5.6	2.6	0.9	1.77	2.54	4.04
8	3.57	6.4	5.5	1.9	0.9	1.66	2.95	5.24
9	3.02	6.2	4.6	1.8	0.7	1.67	2.94	4.09
10	2.18	5.4	4.0	1.1	0.4	0.80	1.64	3.27
11	1.23	4.1	3.3	1.1	0.2	0.43	0.94	1.73
12	0.68	3.0	2.1	0.2	0.1	0.29	0.51	0.98
Summary	27.27	67.7	51.6	16.6	6.9	13.91	23.87	36.97

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

Station: **MEADOW GROVE, NE US**

GHCND:USC00255370
 Elev: 1631 ft. Lat: 42.029° N Lon: 97.739° 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	2.7	1.7	0.7	0.2	0.1	@	@	@	@	1.0	4.0	9.8
2	5.5	2.4	1.7	0.5	0.3	0.2	@	@	@	@	1.8	3.7	5.3
3	6.0	2.3	2.0	0.9	0.4	0.0	@	@	@	@	0.1	4.4	9.0
4	3.1	1.3	1.1	0.4	0.2	0.0	@	@	@	@	0.0	1.5	5.0
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	0.6	0.3	0.2	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	5.2	1.6	1.3	0.6	0.2	0.1	@	@	@	@	0.5	2.0	8.0
12	5.8	2.9	2.3	0.8	0.2	0.0	@	@	@	@	3.0	4.0	9.5
Summary	31.6	13.5	10.3	4.0	1.6	0.4	9999	9999	9999	9999	6.4	19.6	46.6

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

Station: **HARRISBURG 12 WNW, NE US**

GHCND:USC00253605
Elev: 4551 ft. Lat: 41.633° N Lon: 103.954° 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	14.1	27.8	5.2	4.4	4.6	-7777	0	0	0	0	0	843	905	998	1153	0.0	0.0	8.1	6.6	30.1	4.3
2	43.7	15.7	29.7	5.3	4.8	4.9	-7777	-7777	0	0	0	0	708	764	848	988	0.0	0.0	9.9	5.2	26.9	3.2
3	51.2	22.3	36.7	4.2	2.8	3.1	2	1	-7777	-7777	0	0	568	629	721	876	0.0	0.0	17.4	2.8	27.2	0.8
4	59.8	29.7	44.7	4.4	2.7	3.1	18	11	4	1	-7777	0	325	378	462	608	0.0	0.0	23.1	0.8	17.9	0.1
5	69.6	39.8	54.7	3.9	2.0	2.6	102	73	41	11	1	-7777	111	145	205	330	0.0	0.5	29.3	0.0	4.8	0.0
6	79.9	48.9	64.4	3.8	2.4	2.8	298	246	175	81	26	14	16	24	43	99	0.3	4.5	29.8	0.0	0.3	0.0
7	88.0	55.1	71.5	3.3	2.1	2.5	514	452	362	218	100	66	1	2	4	16	1.4	13.2	31.0	0.0	0.0	0.0
8	86.3	53.2	69.8	2.9	2.5	2.5	459	399	310	172	67	40	2	4	8	26	0.2	10.2	31.0	0.0	-7777	0.0
9	76.7	42.4	59.5	3.6	2.4	2.6	194	154	101	39	9	3	58	77	114	202	0.0	3.2	29.2	0.1	3.3	0.0
10	63.3	30.2	46.8	4.1	2.4	2.8	26	15	6	1	-7777	-7777	282	333	417	566	0.0	0.0	25.7	0.6	17.4	0.1
11	50.5	20.6	35.5	5.8	3.4	4.3	2	1	-7777	0	0	0	586	644	734	884	0.0	0.0	15.4	2.9	26.3	1.2
12	40.7	12.9	26.8	5.1	4.3	4.4	-7777	0	0	0	0	0	874	936	1029	1184	0.0	0.0	7.6	7.5	30.3	4.6
Summary	62.6	32.1	47.3	4.3	3.0	3.4	1615	1352	999	523	203	123	4374	4841	5583	6932	1.9	31.6	257.5	26.5	184.5	14.3

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-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **HARRISBURG 12 WNW, NE US**

GHCND:USC00253605
Elev: 4551 ft. Lat: 41.633° N Lon: 103.954° 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	0.30	3.7	1.0	-7777	0.0	0.12	0.24	0.41
2	0.50	4.4	1.7	0.1	0.0	0.24	0.41	0.73
3	1.01	6.2	2.5	0.5	0.1	0.47	0.84	1.24
4	1.70	8.1	4.5	0.8	0.2	0.90	1.40	2.73
5	2.40	10.3	6.1	1.3	0.4	1.38	1.89	3.49
6	2.65	9.8	6.0	1.6	0.5	1.39	2.30	3.68
7	2.07	7.9	4.2	1.3	0.4	1.25	1.56	2.81
8	1.86	7.2	4.1	1.3	0.3	0.90	1.58	2.10
9	1.38	6.5	3.7	0.8	0.2	0.53	1.33	1.79
10	1.24	6.0	3.4	0.7	0.1	0.71	1.03	1.87
11	0.66	4.2	1.9	0.2	0.1	0.35	0.59	0.91
12	0.43	4.7	1.6	-7777	-7777	0.18	0.35	0.54
Summary	16.20	79.0	40.7	8.6	2.3	8.42	13.52	22.30

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Station: **HARRISBURG 12 WNW, NE US**

GHCND:USC00253605
Elev: 4551 ft. Lat: 41.633° N Lon: 103.954° 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	3.4	2.3	0.6	0.2	0.0	12.1	6.7	4.4	0.9	1.8	5.2	8.0
2	7.6	4.3	3.3	0.9	0.2	0.0	11.3	6.4	3.1	-7777	4.0	7.0	10.1
3	8.5	4.3	3.4	0.9	0.4	0.0	8.0	3.9	2.1	0.3	5.0	6.8	10.2
4	6.0	2.3	2.0	0.6	0.3	0.0	3.2	1.7	0.9	0.3	1.7	3.2	9.5
5	0.8	0.4	0.3	0.1	-7777	0.0	0.3	0.1	-7777	0.0	0.0	0.0	1.0
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	0.6	0.2	0.2	0.1	-7777	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0
10	3.5	1.1	0.9	0.6	0.1	-7777	1.9	1.1	0.7	0.3	0.0	1.7	3.5
11	5.7	2.8	2.2	0.6	0.4	-7777	6.4	3.2	1.8	0.2	2.2	4.2	8.7
12	8.3	4.4	3.2	0.9	0.3	-7777	14.0	8.0	4.2	1.1	2.9	6.0	12.0
Summary	46.4	23.2	17.8	5.3	1.9	0.0	57.5	31.2	17.3	3.1	17.6	34.1	63.0

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Station: **HARRISBURG 12 WNW, NE US**

GHCND:USC00253605
Elev: 4551 ft. Lat: 41.633° N Lon: 103.954° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	24	83	205	461	732	978	922	591	259	79	14
45	4	6	34	116	320	583	823	767	447	153	35	4
50	1	1	10	53	197	436	668	613	312	73	10	1
55	-7777	-7777	2	18	102	298	514	459	194	26	2	-7777
60	0	0	-7777	4	41	175	362	310	101	6	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	27	39	98	176	309	460	610	583	399	228	92	26

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	40	123	328	789	1521	2499	3421	4012	4271	4350	4364
45	4	10	44	160	480	1063	1886	2653	3100	3253	3288	3292
50	1	2	12	65	262	698	1366	1979	2291	2364	2374	2375
55	-7777	-7777	2	20	122	420	934	1393	1587	1613	1615	-7777
60	0	0	-7777	4	45	220	582	892	993	999	-7777	999
Growing Degree Units for Corn (Monthly)												
50/86	27	66	164	340	649	1109	1719	2302	2701	2929	3021	3047

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: **NORTH LOUP, NE US**

GHCND:USC00256040
 Elev: 1959 ft. Lat: 41.493° N Lon: 98.775° 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	36.4	10.5	23.5	6.8	5.3	5.8	0	0	0	0	0	0	978	1040	1133	1288	0.0	0.0	5.2	11.5	30.8	6.2
2	40.5	14.4	27.5	7.1	5.6	6.1	-7777	-7777	0	0	0	0	771	827	911	1051	0.0	0.0	7.4	7.8	27.2	4.1
3	51.3	23.7	37.5	5.3	3.5	4.0	5	3	1	-7777	0	0	547	607	698	853	0.0	0.0	17.2	3.0	25.4	0.8
4	63.8	34.1	48.9	5.0	2.9	3.6	51	37	21	7	1	-7777	232	278	353	488	0.0	0.6	25.6	0.1	12.8	0.0
5	72.9	45.6	59.2	3.3	2.9	2.8	180	139	87	32	8	4	48	69	111	210	0.0	0.7	30.9	0.0	1.9	0.0
6	81.8	55.7	68.7	3.5	2.5	2.8	415	357	274	151	65	42	2	5	11	39	0.1	4.1	30.0	0.0	0.0	0.0
7	85.8	60.6	73.2	3.1	2.2	2.4	564	502	409	261	131	91	0	-7777	-7777	7	0.3	8.0	31.0	0.0	0.0	0.0
8	84.0	58.8	71.4	3.1	2.6	2.7	509	447	356	213	96	62	-7777	1	3	14	0.1	6.0	31.0	0.0	0.0	0.0
9	76.7	48.4	62.6	3.5	2.3	2.6	255	209	147	69	22	12	29	43	71	142	0.0	1.7	29.7	0.0	0.9	0.0
10	64.6	35.7	50.2	3.9	2.6	2.6	49	33	16	3	-7777	-7777	200	245	321	464	0.0	0.1	27.6	0.3	10.6	0.0
11	48.9	23.0	35.9	6.4	3.7	4.8	2	1	-7777	-7777	0	0	574	633	722	872	0.0	0.0	14.1	3.3	25.0	0.5
12	36.8	12.5	24.7	6.9	5.6	6.1	0	0	0	0	0	0	941	1003	1096	1251	0.0	0.0	5.1	10.2	30.5	4.9
Summary	62.0	35.3	48.6	4.8	3.5	3.9	2030	1728	1311	736	323	211	4322	4751	5430	6679	0.5	21.2	254.8	36.2	165.1	16.5

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

Station: **NORTH LOUP, NE US**

GHCND:USC00256040

Elev: 1959 ft. Lat: 41.493° N Lon: 98.775° 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	0.58	3.0	1.7	0.2	-7777	0.23	0.49	0.83
2	0.62	3.7	2.1	0.2	-7777	0.20	0.65	0.90
3	1.71	5.5	3.9	1.1	0.3	0.44	1.63	2.34
4	2.63	7.2	5.2	1.8	0.7	1.39	2.52	3.52
5	3.66	9.5	7.0	2.4	0.9	2.37	3.12	4.70
6	4.41	9.2	7.3	2.7	1.0	2.32	3.73	6.61
7	2.93	7.3	5.3	1.9	0.9	1.78	2.39	3.78
8	2.86	6.5	5.0	1.9	0.9	1.73	2.35	3.19
9	2.51	5.8	4.5	1.5	0.6	1.14	1.96	3.78
10	1.93	5.3	4.0	1.4	0.4	0.71	1.35	2.82
11	1.19	4.2	2.8	0.9	0.2	0.21	1.02	2.13
12	0.67	3.5	1.7	0.4	0.1	0.24	0.50	0.93
Summary	25.70	70.7	50.5	16.4	6.0	12.76	21.71	35.53

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Station: **NORTH LOUP, NE US**

GHCND:USC00256040
 Elev: 1959 ft. Lat: 41.493° N Lon: 98.775° 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	2.4	2.1	0.7	0.4	-7777	13.1	8.7	5.2	1.6	1.5	4.3	9.2
2	6.2	2.4	2.2	0.9	0.2	0.1	11.8	7.0	3.7	0.7	2.0	5.0	9.2
3	5.3	1.6	1.6	0.7	0.4	0.1	4.5	2.3	1.1	0.3	1.0	4.0	10.0
4	2.0	0.8	0.7	0.3	0.1	0.0	0.8	0.4	0.1	0.0	0.0	0.3	3.0
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	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.2	0.1	0.1	0.0	0.2	0.1	-7777	0.0	0.0	0.0	0.0
11	3.7	1.7	1.6	0.5	0.2	-7777	3.4	1.7	0.9	0.1	1.0	2.0	5.0
12	5.8	2.6	2.5	0.9	0.3	0.0	11.2	6.0	3.3	1.2	2.0	5.9	9.0
Summary	29.6	11.8	10.9	4.1	1.7	0.2	45.0	26.2	14.3	3.9	7.5	21.5	45.4

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Asheville, North Carolina 28801
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Station: **NORTH LOUP, NE US**

GHCND:USC00256040

Elev: 1959 ft. Lat: 41.493° N Lon: 98.775° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	16	98	297	597	862	1029	973	677	337	75	5
45	1	5	46	186	444	712	874	818	529	213	34	1
50	-7777	1	18	103	300	563	719	663	387	114	11	-7777
55	0	-7777	5	51	180	415	564	509	255	49	2	0
60	0	0	1	21	87	274	409	356	147	16	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	30	101	222	374	555	682	641	434	240	76	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	22	120	417	1014	1876	2905	3878	4555	4892	4967	4972
45	1	6	52	238	682	1394	2268	3086	3615	3828	3862	3863
50	-7777	1	19	122	422	985	1704	2367	2754	2868	2879	-7777
55	0	-7777	5	56	236	651	1215	1724	1979	2028	2030	2030
60	0	0	1	22	109	383	792	1148	1295	1311	-7777	1311
Growing Degree Units for Corn (Monthly)												
50/86	19	49	150	372	746	1301	1983	2624	3058	3298	3374	3388

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: **TABLE ROCK 4 N, NE US**

GHCND:USC00258410
 Elev: 1050 ft. Lat: 40.172° N Lon: 96.000° 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	35.8	13.6	24.7				0	0	0	0	0	0	939	1001	1094	1249	0.0	0.0	4.8	11.4	30.4	5.6
2	40.9	17.5	29.2				-7777	-7777	0	0	0	0	722	778	862	1002	0.0	0.0	7.3	8.2	26.6	1.8
3	52.0	27.3	39.7				15	10	5	-7777	0	0	491	548	636	786	0.0	0.0	17.5	1.9	21.9	0.3
4	64.0	38.5	51.3				70	49	27	6	-7777	-7777	183	222	289	419	0.0	0.0	26.2	0.0	7.3	0.0
5	73.8	50.2	62.0				242	193	131	56	15	8	25	38	69	149	0.0	0.4	30.8	0.0	0.0	0.0
6	83.2	60.4	71.8				504	445	356	218	102	68	-7777	1	2	14	0.0	3.9	30.0	0.0	0.0	0.0
7	88.2	65.6	76.9				678	617	524	371	225	171	0	0	-7777	2	1.2	12.3	31.0	0.0	0.0	0.0
8	86.6	63.0	74.8				613	552	459	309	174	128	-7777	-7777	1	5	0.9	9.2	31.0	0.0	0.0	0.0
9	78.8	52.8	65.8				334	283	210	110	46	30	10	19	36	86	0.1	2.9	30.0	0.0	0.0	0.0
10	66.7	40.5	53.6				101	76	46	16	6	3	144	181	244	370	0.0	0.1	28.3	0.0	6.3	0.0
11	51.5	28.6	40.1				7	4	2	-7777	-7777	0	456	513	600	749	0.0	0.0	17.0	1.7	20.6	0.0
12	37.5	16.1	26.8				-7777	-7777	0	0	0	0	873	935	1029	1184	0.0	0.0	5.3	10.4	29.6	2.7
Summary	63.3	39.5	51.4	9999	9999	9999	2564	2229	1760	1086	568	408	3843	4236	4862	6015	2.2	28.8	259.2	33.6	142.7	10.4

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

Station: **TABLE ROCK 4 N, NE US**

GHCND:USC00258410

Elev: 1050 ft. Lat: 40.172° N Lon: 96.000° 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	0.76	4.5	2.3	0.2	0.0	0.35	0.76	1.12
2	1.06	5.2	2.9	0.6	0.1	0.40	0.90	1.44
3	2.40	7.4	4.6	1.6	0.4	1.06	2.31	3.03
4	3.07	9.5	6.3	1.9	0.6	2.01	2.70	3.64
5	4.52	10.8	7.2	3.2	1.1	2.50	4.07	5.78
6	4.55	9.8	7.1	3.1	1.5	2.88	4.61	5.38
7	4.72	9.5	6.5	2.9	1.4	2.04	3.97	5.12
8	4.00	8.7	6.1	2.5	1.1	1.87	3.19	5.50
9	3.55	7.6	5.2	2.2	1.0	1.80	2.79	5.26
10	2.42	7.5	4.6	1.6	0.5	1.19	2.08	3.01
11	1.82	5.8	3.5	0.9	0.6	0.69	1.45	2.95
12	1.09	4.9	2.5	0.7	0.1	0.30	0.83	1.61
Summary	33.96	91.2	58.8	21.4	8.4	17.09	29.66	43.84

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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

9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

U.S. Department of Commerce
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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: **TABLE ROCK 4 N, NE US**

GHCND:USC00258410
 Elev: 1050 ft. Lat: 40.172° N Lon: 96.000° 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	2.7	1.9	0.6	0.2	0.0	10.0	5.3	2.7	0.7	2.2	4.4	9.4
2	5.5	2.8	1.9	0.8	0.2	0.0	7.9	4.8	2.3	0.8	1.2	5.2	7.7
3	3.1	1.7	1.3	0.4	0.1	-7777	2.6	1.3	0.6	0.2	0.5	2.9	4.3
4	0.8	0.6	0.4	0.1	-7777	0.0	0.4	0.2	0.1	-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	0.4	0.1	0.1	0.1	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
11	1.6	1.1	0.8	0.2	0.0	0.0	1.1	0.1	0.0	0.0	0.0	1.0	2.0
12	5.4	2.8	2.0	0.5	0.2	0.0	8.0	4.3	2.0	0.7	1.1	3.0	6.7
Summary	22.1	11.8	8.4	2.7	0.7	0.0	30.1	16.1	7.7	2.4	5.0	16.5	30.1

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
 -7777: a non-zero value that would round to zero
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National Oceanic & Atmospheric Administration
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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: **TABLE ROCK 4 N, NE US**

GHCND:USC00258410
Elev: 1050 ft. Lat: 40.172° N Lon: 96.000° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	27	126	354	682	954	1143	1078	774	429	116	11
45	2	10	67	238	528	804	988	923	624	294	59	1
50	-7777	3	35	140	378	654	834	768	475	181	24	-7777
55	0	-7777	15	70	242	504	678	613	334	101	7	-7777
60	0	0	5	27	131	356	524	459	210	46	2	0
Growing Degree Units for Corn (Monthly)												
50/86	17	30	100	227	416	636	774	723	494	280	84	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	38	164	518	1200	2154	3297	4375	5149	5578	5694	5705
45	2	12	79	317	845	1649	2637	3560	4184	4478	4537	4538
50	-7777	3	38	178	556	1210	2044	2812	3287	3468	3492	-7777
55	0	-7777	15	85	327	831	1509	2122	2456	2557	2564	-7777
60	0	0	5	32	163	519	1043	1502	1712	1758	1760	1760
Growing Degree Units for Corn (Monthly)												
50/86	17	47	147	374	790	1426	2200	2923	3417	3697	3781	3796

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

Station: **HAY SPRINGS 12 S, NE US**

GHCND:USC00253715
Elev: 3806 ft. Lat: 42.512° N Lon: 102.694° 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	39.2	11.2	25.2	5.6	4.6	4.9	0	0	0	0	0	0	924	986	1079	1234	0.0	0.0	6.7	8.1	30.5	5.7
2	41.8	13.7	27.7	6.3	5.1	5.5	0	0	0	0	0	0	763	819	903	1043	0.0	0.0	8.4	6.1	27.3	3.9
3	51.4	21.6	36.5	4.9	3.5	3.9	2	1	-7777	-7777	0	0	575	637	729	884	0.0	0.0	17.7	2.6	28.0	1.1
4	60.6	29.7	45.2	5.2	2.8	3.6	23	15	7	2	-7777	-7777	319	370	452	597	0.0	0.1	23.3	0.5	18.5	-7777
5	70.8	41.5	56.2	4.5	2.5	3.1	129	97	58	18	3	1	93	123	177	293	0.0	1.0	29.6	0.0	3.7	0.0
6	80.9	51.1	66.0	4.3	3.0	3.3	338	284	208	103	36	21	8	14	28	73	0.2	5.6	29.9	0.0	0.0	0.0
7	87.9	56.8	72.3	3.1	2.5	2.5	538	476	385	238	115	77	-7777	1	2	10	1.1	12.8	31.0	0.0	0.0	0.0
8	86.3	54.7	70.5	2.8	2.2	2.3	482	421	331	191	77	46	1	2	6	21	0.3	10.3	31.0	0.0	0.0	0.0
9	77.2	43.2	60.2	4.1	2.4	2.9	203	160	104	40	9	4	47	64	98	184	0.0	3.1	29.4	0.0	2.4	0.0
10	63.9	30.7	47.3	4.3	2.1	2.7	27	16	6	1	-7777	0	266	317	400	549	0.0	0.3	26.5	0.4	17.2	0.1
11	48.3	19.5	33.9	6.7	4.0	5.1	1	-7777	-7777	0	0	0	634	693	783	933	0.0	0.0	13.7	4.0	27.6	1.3
12	38.2	10.4	24.3	5.6	4.8	5.0	0	0	0	0	0	0	951	1013	1106	1261	0.0	0.0	6.2	9.5	30.7	5.8
Summary	62.2	32.0	47.1	4.8	3.3	3.7	1743	1470	1099	593	240	149	4581	5039	5763	7082	1.6	33.2	253.4	31.2	185.9	17.9

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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: **HAY SPRINGS 12 S, NE US**

GHCND:USC00253715
Elev: 3806 ft. Lat: 42.512° N Lon: 102.694° 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	0.34	2.5	0.9	0.1	0.0	0.15	0.26	0.38
2	0.36	2.9	1.3	-7777	0.0	0.10	0.37	0.52
3	0.89	4.2	2.4	0.5	0.1	0.33	0.75	1.27
4	1.83	6.7	4.4	0.8	0.1	1.11	1.72	2.42
5	2.83	8.4	6.4	1.9	0.4	1.59	2.56	4.00
6	3.09	8.9	6.5	2.3	0.8	1.32	3.12	4.15
7	2.64	7.4	5.5	1.8	0.4	1.85	2.70	3.19
8	2.01	6.0	4.3	1.3	0.3	0.96	1.78	2.52
9	1.37	4.4	3.3	0.7	0.3	0.33	1.25	2.09
10	1.13	4.0	2.9	0.8	0.1	0.50	0.80	1.74
11	0.49	2.9	1.5	0.2	0.1	0.15	0.35	0.78
12	0.25	2.5	1.2	0.0	0.0	0.07	0.20	0.35
Summary	17.23	60.8	40.6	10.4	2.6	8.46	15.86	23.41

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Station: **HAY SPRINGS 12 S, NE US**

GHCND:USC00253715
Elev: 3806 ft. Lat: 42.512° N Lon: 102.694° 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	3.6	2.1	1.9	0.4	-7777	0.0	9.2	6.9	3.8	0.0	0.0	3.0	6.0
2	5.7	2.2	2.1	0.5	0.1	0.0	6.5	3.6	2.0	0.1	0.0	4.1	7.0
3	4.9	1.7	1.6	0.5	0.2	0.0	3.2	1.4	0.8	0.3	1.0	2.0	10.0
4	3.9	1.3	1.2	0.5	0.1	0.0	1.1	0.3	0.1	0.0	0.0	3.0	7.0
5	0.1	-7777	-7777	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	0.5	0.2	0.2	0.1	-7777	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
10	1.5	0.4	0.4	0.2	0.1	0.0	0.3	0.2	0.1	0.0	0.0	0.0	2.0
11	6.6	1.9	1.6	0.7	0.3	0.0	4.4	2.8	1.8	0.3	0.0	5.0	9.0
12	6.8	2.0	1.9	0.6	0.3	0.0	11.5	8.5	5.7	2.9	1.0	7.0	10.0
Summary	33.6	11.8	10.9	3.5	1.1	0.0	36.3	23.8	14.4	3.6	2.0	24.1	51.0

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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Station: HAY SPRINGS 12 S, NE US

GHCND:USC00253715
Elev: 3806 ft. Lat: 42.512° N Lon: 102.694° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	13	78	210	503	780	1003	945	608	265	56	7
45	1	2	30	120	359	630	848	790	464	153	22	1
50	-7777	-7777	9	58	230	482	693	635	326	72	5	-7777
55	0	0	2	23	129	338	538	482	203	27	1	0
60	0	0	-7777	7	58	208	385	331	104	6	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	31	101	186	329	486	632	601	407	232	76	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	20	98	308	811	1591	2594	3539	4147	4412	4468	4475
45	1	3	33	153	512	1142	1990	2780	3244	3397	3419	3420
50	-7777	-7777	9	67	297	779	1472	2107	2433	2505	2510	-7777
55	0	0	2	25	154	492	1030	1512	1715	1742	1743	1743
60	0	0	-7777	7	65	273	658	989	1093	1099	-7777	1099
Growing Degree Units for Corn (Monthly)												
50/86	19	50	151	337	666	1152	1784	2385	2792	3024	3100	3120

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: **FRANKLIN 2, NE US**

GHCND:USC00253037

Elev: 2011 ft. Lat: 40.095° N Lon: 98.945° 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	39.1	13.7	26.4	7.0	4.6	5.5	0	0	0	0	0	0	887	949	1042	1196	0.0	0.0	7.6	10.1	30.5	4.1
2	43.5	17.6	30.6	6.6	4.7	5.3	1	-7777	-7777	0	0	0	685	741	824	964	0.0	0.0	10.0	6.1	26.1	2.2
3	53.5	26.3	39.9	4.7	4.0	4.0	10	6	2	-7777	-7777	0	478	536	625	778	0.0	0.0	18.3	2.3	22.0	0.6
4	64.4	36.4	50.4	4.7	3.1	3.6	60	42	23	6	1	-7777	198	240	311	444	0.0	0.3	25.9	0.2	9.6	0.0
5	73.4	48.2	60.8	3.4	2.9	2.8	218	175	120	52	16	9	38	58	95	183	0.0	1.5	30.8	0.0	0.6	0.0
6	83.3	58.4	70.9	3.4	2.8	2.9	478	419	334	202	99	68	2	4	8	27	0.2	6.6	30.0	0.0	0.0	0.0
7	89.5	64.1	76.8	3.2	2.1	2.4	676	614	521	367	223	172	0	0	-7777	2	2.7	14.7	31.0	0.0	0.0	0.0
8	87.5	61.9	74.7	3.1	2.6	2.7	611	549	457	307	174	130	-7777	-7777	1	6	1.9	11.8	31.0	0.0	0.0	0.0
9	79.0	51.4	65.2	3.6	2.6	2.8	322	270	200	108	48	31	16	24	44	102	0.2	3.8	29.9	0.0	0.4	0.0
10	66.7	38.0	52.4	3.7	2.1	2.4	82	60	35	12	3	2	165	204	272	404	0.0	0.5	28.2	0.2	8.5	0.1
11	51.9	25.5	38.7	5.9	3.0	4.0	7	4	2	-7777	0	0	496	553	641	789	0.0	0.0	16.2	2.3	22.7	0.2
12	39.4	15.3	27.3	6.3	5.2	5.6	-7777	0	0	0	0	0	857	919	1012	1167	0.0	0.0	6.8	9.0	30.6	2.5
Summary	64.3	38.1	51.2	4.6	3.3	3.7	2465	2139	1694	1054	564	412	3822	4228	4875	6062	5.0	39.2	265.7	30.2	151.0	9.7

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Station: **FRANKLIN 2, NE US**

GHCND:USC00253037

Elev: 2011 ft. Lat: 40.095° N Lon: 98.945° 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	0.49	4.4	1.8	0.3	0.0	0.15	0.44	0.65
2	0.67	4.4	2.3	0.4	0.0	0.19	0.49	1.09
3	1.80	6.6	3.5	1.0	0.3	0.73	1.85	2.43
4	2.31	8.9	5.6	1.5	0.4	1.54	2.15	2.83
5	4.59	11.0	7.3	2.4	1.0	2.72	4.11	6.00
6	3.81	10.3	6.4	2.8	1.2	2.16	3.79	4.91
7	3.59	10.1	7.1	3.1	1.5	1.80	3.13	4.35
8	3.00	8.8	5.4	2.3	0.7	1.98	2.65	4.28
9	2.09	6.2	3.7	1.2	0.5	0.76	2.15	3.12
10	1.93	6.8	4.0	1.4	0.8	0.78	1.40	2.24
11	1.22	5.3	2.5	0.7	0.4	0.41	0.82	1.90
12	0.73	4.3	1.8	0.3	0.0	0.22	0.48	1.10
Summary	26.23	87.1	51.4	17.4	6.8	13.44	23.46	34.90

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **FRANKLIN 2, NE US**

GHCND:USC00253037
 Elev: 2011 ft. Lat: 40.095° N Lon: 98.945° 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	3.2	1.7	0.6	0.2	0.0	10.0	4.1	1.6	0.6	2.1	3.8	7.0
2	5.2	2.6	1.8	0.8	0.3	0.0	8.6	5.2	3.4	0.4	0.4	4.8	8.0
3	2.3	1.2	0.8	0.4	0.1	0.0	3.1	1.7	1.0	0.1	0.0	1.2	4.2
4	1.4	0.5	0.4	0.2	0.1	0.0	0.6	0.3	0.1	0.0	0.0	0.0	3.3
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	1.3	0.2	0.2	0.1	0.1	0.1	0.5	0.4	0.4	0.2	0.0	0.0	0.0
11	2.0	1.2	0.8	0.2	0.1	0.0	2.3	1.1	0.6	0.2	0.0	2.0	2.9
12	2.3	2.6	1.2	0.3	0.0	0.0	7.9	2.2	0.4	0.0	0.1	1.3	5.0
Summary	19.5	11.5	6.9	2.6	0.9	0.1	33.0	15.0	7.5	1.5	2.6	13.1	30.4

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www.ncdc.noaa.gov

Station: **FRANKLIN 2, NE US**

GHCND:USC00253037
Elev: 2011 ft. Lat: 40.095° N Lon: 98.945° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	33	138	334	645	926	1140	1076	756	400	107	9
45	2	12	72	217	492	775	986	920	607	271	55	2
50	-7777	3	31	125	346	626	830	765	460	163	23	-7777
55	0	1	10	60	218	478	676	611	322	82	7	-7777
60	0	-7777	2	23	120	334	521	457	200	35	2	0
Growing Degree Units for Corn (Monthly)												
50/86	27	46	124	232	395	600	750	704	481	276	101	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	46	184	518	1163	2089	3229	4305	5061	5461	5568	5577
45	2	14	86	303	795	1570	2556	3476	4083	4354	4409	4411
50	-7777	3	34	159	505	1131	1961	2726	3186	3349	3372	-7777
55	0	1	11	71	289	767	1443	2054	2376	2458	2465	-7777
60	0	-7777	2	25	145	479	1000	1457	1657	1692	1694	1694
Growing Degree Units for Corn (Monthly)												
50/86	27	73	197	429	824	1424	2174	2878	3359	3635	3736	3757

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: **FALLS CITY BRENNER FIELD, NE US**

GHCND:USW00094957
Elev: 981 ft. Lat: 40.080° N Lon: 95.592° 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	17.0	26.5	6.0	5.0	5.2	-7777	0	0	0	0	0	883	945	1038	1193	0.0	0.0	4.5	11.0	29.2	3.1
2	41.1	20.7	30.9	6.5	5.5	5.8	1	1	-7777	-7777	0	0	676	731	815	955	0.0	0.0	7.8	7.2	23.3	2.0
3	53.2	30.5	41.9	4.9	3.5	3.8	21	15	8	2	-7777	-7777	429	484	571	720	0.0	-7777	17.8	1.9	17.4	0.1
4	65.0	41.4	53.2	4.6	3.1	3.6	101	78	50	20	6	3	155	192	254	374	0.0	0.4	26.4	0.0	5.0	0.0
5	75.0	52.6	63.8	3.6	3.2	3.1	292	241	173	84	30	18	19	30	55	121	0.0	1.5	30.9	0.0	0.1	0.0
6	84.3	62.2	73.3	3.0	2.6	2.6	548	488	400	260	139	99	-7777	1	3	13	0.2	6.9	30.0	0.0	0.0	0.0
7	88.8	66.3	77.5	2.7	2.3	2.2	699	637	544	390	242	188	0	0	-7777	1	1.6	14.0	31.0	0.0	0.0	0.0
8	87.1	63.6	75.4	3.8	2.8	3.1	631	569	476	326	189	143	-7777	-7777	1	5	1.6	11.2	31.0	0.0	0.0	0.0
9	79.4	54.1	66.7	3.6	3.0	3.0	366	313	239	136	63	43	13	20	37	83	0.1	3.8	29.9	0.0	0.2	0.0
10	66.8	42.5	54.7	3.2	2.9	2.6	116	88	55	20	6	4	127	161	220	341	0.0	0.2	28.6	0.0	4.4	0.0
11	51.6	30.4	41.0	5.6	4.1	4.5	15	10	5	1	-7777	-7777	435	490	575	721	0.0	0.0	17.0	2.0	17.6	-7777
12	38.4	19.7	29.0	6.3	6.0	6.0	-7777	-7777	-7777	0	0	0	805	867	959	1114	0.0	0.0	6.2	9.3	27.3	2.0
Summary	63.9	41.8	52.8	4.5	3.7	3.8	2790	2440	1950	1239	675	498	3542	3921	4528	5641	3.5	38.0	261.1	31.4	124.5	7.2

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1981-2010**

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

Station: **FALLS CITY BRENNER FIELD, NE US**

GHCND:USW00094957
Elev: 981 ft. Lat: 40.080° N Lon: 95.592° 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	0.65	4.9	2.1	0.1	-7777	0.37	0.51	0.91
2	0.94	6.1	2.6	0.4	0.1	0.45	0.70	1.59
3	2.34	8.4	4.6	1.6	0.4	1.11	2.28	3.15
4	3.18	10.1	6.0	2.1	0.8	2.05	3.02	3.98
5	4.58	11.6	7.8	3.3	1.3	3.04	4.22	5.44
6	4.88	11.1	7.0	3.1	1.6	3.33	4.76	5.90
7	5.04	10.5	6.3	3.4	1.5	2.49	3.35	5.56
8	4.04	10.2	5.6	2.4	1.3	1.44	3.00	6.28
9	3.55	9.4	5.2	2.3	1.1	1.57	2.60	5.63
10	2.64	8.4	4.8	1.8	0.7	1.50	2.56	3.71
11	1.96	6.8	3.6	1.1	0.5	1.02	1.48	3.40
12	0.98	6.1	2.5	0.6	0.1	0.37	0.83	1.56
Summary	34.78	103.6	58.1	22.2	9.4	18.74	29.31	47.11

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Station: **FALLS CITY BRENNER FIELD, NE US**

GHCND:USW00094957
Elev: 981 ft. Lat: 40.080° N Lon: 95.592° 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	2.0	1.8	0.7	0.2	0.0	@	@	@	@	0.0	3.0	6.0
2	3.2	1.7	1.6	0.5	0.2	0.0	@	@	@	@	0.0	1.5	6.0
3	3.3	1.2	1.0	0.4	0.2	0.0	@	@	@	@	0.0	2.0	3.4
4	0.9	0.3	0.3	0.2	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	0.3	0.1	0.1	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	1.1	0.5	0.5	0.2	0.0	0.0	@	@	@	@	0.0	0.0	1.2
12	3.7	2.3	2.0	0.6	0.1	0.0	@	@	@	@	1.0	3.5	4.4
Summary	15.9	8.1	7.3	2.7	0.9	0.0	9999	9999	9999	9999	1.0	10.0	21.0

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Station: **FALLS CITY BRENNER FIELD, NE US**

GHCND:USW00094957
Elev: 981 ft. Lat: 40.080° N Lon: 95.592° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	39	168	409	738	997	1164	1096	802	462	144	23
45	4	16	95	283	583	847	1009	941	653	325	79	7
50	-7777	5	48	177	432	697	854	786	507	208	37	2
55	-7777	1	21	101	292	548	699	631	366	116	15	-7777
60	0	-7777	8	50	173	400	544	476	239	55	5	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	34	119	251	453	668	786	730	514	286	95	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	53	221	630	1368	2365	3529	4625	5427	5889	6033	6056
45	4	20	115	398	981	1828	2837	3778	4431	4756	4835	4842
50	-7777	5	53	230	662	1359	2213	2999	3506	3714	3751	3753
55	-7777	1	22	123	415	963	1662	2293	2659	2775	2790	-7777
60	0	-7777	8	58	231	631	1175	1651	1890	1945	1950	-7777
Growing Degree Units for Corn (Monthly)												
50/86	15	49	168	419	872	1540	2326	3056	3570	3856	3951	3970

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: **BEATRICE 1 N, NE US**

GHCND:USC00250622
 Elev: 1296 ft. Lat: 40.299° N Lon: 96.750° 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	13.6	24.3	6.3	5.0	5.4	0	0	0	0	0	0	952	1014	1107	1262	0.0	0.0	4.5	12.7	30.2	4.5
2	40.1	17.4	28.7	6.8	6.0	6.1	1	-7777	-7777	-7777	0	0	736	791	875	1015	0.0	0.0	7.6	8.5	25.6	2.8
3	51.7	27.5	39.6	4.7	3.9	3.9	14	9	4	1	-7777	0	491	548	636	788	0.0	0.0	17.4	2.5	20.8	0.4
4	63.4	38.0	50.7	4.2	3.0	3.4	71	52	32	11	3	1	200	241	311	440	0.0	0.3	25.4	0.1	8.4	0.0
5	73.3	50.0	61.6	3.4	3.0	2.9	238	192	132	58	19	10	32	48	81	162	0.0	0.7	30.7	0.0	0.6	0.0
6	83.5	60.5	72.0	3.3	2.7	2.9	511	451	364	229	118	83	1	1	4	19	0.2	6.1	30.0	0.0	0.0	0.0
7	88.6	65.3	77.0	2.6	2.3	2.2	680	618	525	372	228	176	0	0	-7777	2	1.5	13.5	31.0	0.0	0.0	0.0
8	86.8	63.1	74.9	3.9	3.1	3.4	618	556	464	315	182	137	-7777	-7777	1	7	1.5	10.5	31.0	0.0	0.0	0.0
9	78.6	52.8	65.7	3.8	2.9	3.0	337	286	215	119	54	36	16	25	44	98	0.2	3.5	29.9	0.0	0.3	0.0
10	66.1	40.3	53.2	3.5	2.8	2.7	98	73	43	15	4	2	153	190	254	381	0.0	0.2	28.1	0.2	6.1	0.0
11	50.5	27.8	39.2	6.0	3.9	4.6	10	6	3	1	-7777	0	486	542	628	776	0.0	0.0	16.1	2.5	20.9	0.0
12	37.3	16.6	26.9	6.5	6.2	6.1	-7777	-7777	-7777	0	0	0	869	931	1024	1179	0.0	0.0	5.2	10.7	29.6	2.8
Summary	62.9	39.4	51.2	4.6	3.7	3.9	2578	2243	1782	1121	608	445	3936	4331	4965	6129	3.4	34.8	256.9	37.2	142.5	10.5

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Station: **BEATRICE 1 N, NE US**

GHCND:USC00250622

Elev: 1296 ft. Lat: 40.299° N Lon: 96.750° 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	0.61	3.7	2.1	0.2	0.0	0.26	0.49	0.96
2	0.83	4.3	2.7	0.4	0.2	0.37	0.67	0.98
3	2.12	6.8	4.0	1.4	0.3	0.96	2.30	3.09
4	2.89	8.6	5.8	1.9	0.5	1.94	2.86	3.54
5	4.89	10.7	7.3	3.3	1.5	3.10	4.56	5.92
6	4.25	9.3	6.8	2.8	1.5	2.57	4.67	5.33
7	4.10	8.8	6.4	2.7	1.2	2.70	3.74	4.91
8	4.06	8.4	6.2	2.8	1.3	2.09	3.55	5.83
9	3.02	7.0	5.4	2.0	1.0	2.04	2.68	3.48
10	2.16	5.8	4.1	1.6	0.4	1.07	1.88	3.43
11	1.37	4.7	2.8	0.7	0.3	0.66	1.05	2.31
12	0.86	4.3	2.5	0.4	0.1	0.31	0.53	1.36
Summary	31.16	82.4	56.1	20.2	8.3	18.07	28.98	41.14

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

Station: **BEATRICE 1 N, NE US**

GHCND:USC00250622
 Elev: 1296 ft. Lat: 40.299° N Lon: 96.750° 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	2.3	1.9	0.8	0.1	0.0	10.7	5.8	3.0	0.9	2.5	4.9	7.9
2	4.8	2.2	2.0	0.7	0.2	0.0	7.9	4.9	2.2	0.5	1.0	4.8	7.3
3	2.5	1.2	1.0	0.2	0.1	-7777	3.1	1.3	0.7	0.3	0.0	1.0	3.0
4	0.5	0.2	0.2	0.1	0.0	0.0	0.3	0.2	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	0.3	0.2	0.1	-7777	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
11	1.0	0.8	0.7	0.1	0.0	0.0	1.4	0.5	0.2	0.0	0.0	0.4	2.0
12	4.0	2.5	1.7	0.6	0.2	-7777	7.6	4.6	2.4	0.9	0.9	3.0	6.3
Summary	18.3	9.4	7.6	2.5	0.6	0.0	31.2	17.3	8.6	2.6	4.4	14.1	26.5

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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Summary of Monthly Normals 1981-2010

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Federal Building
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www.ncdc.noaa.gov

Station: **BEATRICE 1 N, NE US**

GHCND:USC00250622

Elev: 1296 ft. Lat: 40.299° N Lon: 96.750° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	30	135	342	671	960	1145	1083	771	423	116	10
45	1	11	72	226	518	810	990	928	622	292	62	3
50	-7777	3	33	135	370	660	835	773	476	181	28	1
55	0	1	14	71	238	511	680	618	337	98	10	-7777
60	0	-7777	4	32	132	364	525	464	215	43	3	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	33	105	222	407	633	768	719	492	272	88	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	38	173	515	1186	2146	3291	4374	5145	5568	5684	5694
45	1	12	84	310	828	1638	2628	3556	4178	4470	4532	4535
50	-7777	3	36	171	541	1201	2036	2809	3285	3466	3494	3495
55	0	1	15	86	324	835	1515	2133	2470	2568	2578	-7777
60	0	-7777	4	36	168	532	1057	1521	1736	1779	1782	-7777
Growing Degree Units for Corn (Monthly)												
50/86	14	47	152	374	781	1414	2182	2901	3393	3665	3753	3768

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: **RULO 2 W, NE US**

GHCND:USC00257401
 Elev: 932 ft. Lat: 40.054° N Lon: 95.464° 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	35.5	14.4	25.0				-7777	0	0	0	0	0	931	993	1086	1241	0.0	0.0	5.2	11.6	30.5	4.5
2	41.0	17.9	29.5				-7777	-7777	-7777	0	0	0	715	771	855	995	0.0	0.0	8.0	7.2	25.5	1.5
3	52.8	28.8	40.8				17	12	6	1	0	0	458	514	602	752	0.0	0.0	16.8	1.2	19.4	0.0
4	64.5	39.4	52.0				75	55	31	9	1	-7777	166	206	272	400	0.0	0.4	26.4	0.0	7.0	0.0
5	74.3	52.3	63.3				273	222	153	67	19	10	16	26	50	120	0.0	0.9	31.0	0.0	0.2	0.0
6	83.0	62.0	72.5				524	465	375	229	102	64	-7777	-7777	-7777	5	0.0	2.6	30.0	0.0	0.0	0.0
7	87.3	66.4	76.9				676	615	522	368	219	164	0	0	0	1	0.3	10.2	31.0	0.0	0.0	0.0
8	86.2	63.7	75.0				618	556	463	311	170	123	-7777	-7777	-7777	3	0.0	8.2	31.0	0.0	0.0	0.0
9	79.1	54.1	66.6				354	300	225	117	43	24	6	12	28	69	0.0	2.0	30.0	0.0	0.0	0.0
10	66.9	42.0	54.5				114	87	55	23	8	4	131	166	227	350	0.0	0.2	29.6	0.0	5.3	0.0
11	52.0	29.2	40.6				5	3	1	-7777	-7777	-7777	437	495	583	732	0.0	0.0	17.0	0.9	20.0	0.0
12	37.8	18.0	27.9				-7777	-7777	0	0	0	0	839	901	994	1149	0.0	0.0	5.6	9.4	28.1	1.6
Summary	63.4	40.7	52.1	9999	9999	9999	2656	2315	1831	1125	562	389	3699	4084	4697	5817	0.3	24.5	261.6	30.3	136.0	7.6

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

Station: **RULO 2 W, NE US**

GHCND:USC00257401
Elev: 932 ft. Lat: 40.054° N Lon: 95.464° 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	4.1	3.0	0.4	0.0	0.37	0.81	1.16
2	1.15	4.3	3.1	0.7	0.3	0.49	0.98	1.50
3	2.26	6.4	4.0	1.1	0.3	1.06	1.82	3.44
4	3.38	7.9	6.1	2.5	0.9	1.70	3.17	4.37
5	4.85	8.8	6.6	3.3	1.1	2.69	4.29	5.99
6	4.41	10.1	7.6	3.7	1.5	3.24	4.25	5.51
7	4.49	7.3	5.7	2.5	1.3	2.52	4.18	5.30
8	3.64	6.4	4.7	2.3	1.0	1.76	2.97	5.77
9	2.94	5.8	4.3	1.6	0.8	1.79	2.46	4.48
10	2.58	6.2	5.1	2.0	0.8	1.67	2.38	3.48
11	2.04	4.8	3.1	1.4	0.4	1.02	1.65	2.93
12	1.01	4.3	2.2	0.8	0.1	0.40	0.79	1.65
Summary	33.57	76.4	55.5	22.3	8.5	18.71	29.75	45.58

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GHCND:USC00257401
 Elev: 932 ft. Lat: 40.054° N Lon: 95.464° 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	2.3	0.9	0.3	0.1	@	@	@	@	3.4	5.8	9.0
2	5.7	2.0	1.7	0.9	0.5	0.0	@	@	@	@	0.6	5.0	10.0
3	1.6	0.8	0.6	0.3	0.0	0.0	@	@	@	@	0.0	2.0	3.0
4	0.6	0.3	0.2	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	0.4	0.1	0.1	0.1	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	1.0	0.5	0.4	0.1	0.1	0.0	@	@	@	@	0.0	0.0	1.2
12	5.4	1.9	1.8	1.0	0.4	0.0	@	@	@	@	0.0	4.0	7.1
Summary	21.4	8.1	7.1	3.4	1.5	0.1	9999	9999	9999	9999	4.0	16.8	30.3

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Station: **RULO 2 W, NE US**

GHCND:USC00257401
Elev: 932 ft. Lat: 40.054° N Lon: 95.464° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	32	140	374	722	975	1142	1083	798	452	115	19
45	2	11	76	251	567	825	987	928	648	312	54	4
50	1	4	38	148	415	674	831	772	499	198	20	-7777
55	-7777	-7777	17	75	273	524	676	618	354	114	5	-7777
60	0	-7777	6	31	153	375	522	463	225	55	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	33	107	233	437	662	787	734	510	281	83	17

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	40	180	554	1276	2251	3393	4476	5274	5726	5841	5860
45	2	13	89	340	907	1732	2719	3647	4295	4607	4661	4665
50	1	5	43	191	606	1280	2111	2883	3382	3580	3600	-7777
55	-7777	-7777	17	92	365	889	1565	2183	2537	2651	2656	-7777
60	0	-7777	6	37	190	565	1087	1550	1775	1830	1831	1831
Growing Degree Units for Corn (Monthly)												
50/86	15	48	155	388	825	1487	2274	3008	3518	3799	3882	3899

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

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Station: **BENKELMAN, NE US**

GHCND:USC00250760
Elev: 2995 ft. Lat: 40.050° N Lon: 101.533° 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	14.0	28.4	5.7	3.9	4.7	-7777	-7777	0	0	0	0	825	887	979	1135	0.0	0.0	10.7	7.1	30.9	3.1
2	46.8	17.6	32.2	6.4	4.4	4.9	-7777	-7777	-7777	0	0	0	638	694	778	918	0.0	0.0	12.2	4.9	27.3	2.1
3	55.8	25.5	40.7	4.1	2.9	3.2	8	4	1	-7777	0	0	453	511	601	755	0.0	-7777	20.5	2.0	24.5	0.3
4	65.4	34.5	50.0	4.6	2.4	3.2	56	39	21	5	1	-7777	208	250	322	457	0.0	0.5	25.8	0.2	11.5	0.0
5	74.9	46.4	60.6	3.9	2.5	2.8	218	174	119	51	14	7	43	61	98	186	0.2	2.3	30.5	0.0	1.1	0.0
6	85.4	56.5	71.0	3.8	2.7	3.1	481	423	339	210	106	74	3	5	10	31	1.3	10.1	30.0	0.0	0.0	0.0
7	91.9	62.4	77.2	3.1	1.9	2.4	686	624	532	379	234	181	-7777	-7777	-7777	3	5.1	19.3	31.0	0.0	0.0	0.0
8	89.8	60.3	75.1	3.5	2.0	2.6	622	560	468	318	180	132	-7777	-7777	2	7	2.6	16.4	31.0	0.0	0.0	0.0
9	81.4	49.4	65.4	3.6	2.5	2.8	332	282	212	114	47	29	20	30	50	102	0.4	7.8	29.6	0.0	0.5	0.0
10	68.5	35.8	52.2	3.9	2.1	2.5	77	54	29	8	1	1	166	205	273	406	0.0	1.1	28.0	0.3	9.5	0.0
11	54.1	24.1	39.1	5.3	2.9	3.8	5	2	1	-7777	0	0	482	539	627	777	0.0	0.0	18.3	2.1	24.8	0.2
12	43.4	14.8	29.1	5.8	4.3	4.9	-7777	-7777	0	0	0	0	803	865	958	1113	0.0	0.0	10.4	6.2	30.7	2.4
Summary	66.7	36.8	51.8	4.5	2.9	3.4	2485	2162	1722	1085	583	424	3641	4047	4698	5890	9.6	57.5	278.0	22.8	160.8	8.1

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Station: **BENKELMAN, NE US**

GHCND:USC00250760

Elev: 2995 ft. Lat: 40.050° N Lon: 101.533° 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	4.2	1.6	0.2	0.1	0.21	0.42	0.74
2	0.52	5.0	1.7	0.1	-7777	0.20	0.48	0.80
3	1.20	6.4	3.2	0.6	0.2	0.50	1.02	1.50
4	1.99	7.8	4.5	1.2	0.2	1.17	1.68	2.59
5	3.08	11.0	5.9	1.8	0.5	1.72	2.58	4.48
6	2.88	9.9	5.9	1.9	0.7	1.74	2.47	3.72
7	2.94	9.4	5.7	1.9	0.6	1.83	2.74	3.91
8	2.22	8.3	4.4	1.4	0.4	1.08	1.60	3.63
9	1.41	6.0	3.1	0.8	0.3	0.76	1.17	2.25
10	1.59	6.5	3.1	0.9	0.3	0.49	1.12	2.22
11	0.76	4.4	2.0	0.4	0.1	0.32	0.57	1.20
12	0.60	4.0	1.7	0.3	0.1	0.24	0.29	0.87
Summary	19.75	82.9	42.8	11.5	3.5	10.26	16.14	27.91

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Station: **BENKELMAN, NE US**

GHCND:USC00250760
 Elev: 2995 ft. Lat: 40.050° N Lon: 101.533° 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	6.0	3.6	1.8	0.7	0.3	0.1	10.7	7.8	4.8	2.1	1.4	4.9	7.1
2	5.5	3.6	1.7	0.6	0.2	0.1	8.2	4.5	2.4	0.1	2.1	5.1	7.6
3	4.9	2.9	1.4	0.6	0.2	-7777	3.1	1.6	0.9	0.1	1.5	3.1	8.1
4	2.6	1.5	0.9	0.3	0.1	0.0	0.9	0.4	0.2	0.0	0.0	0.9	5.1
5	0.1	0.1	-7777	0.0	0.0	0.0	-7777	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	0.4	0.1	0.1	0.1	0.1	0.0	-7777	-7777	-7777	0.0	0.0	0.0	0.0
10	1.7	0.7	0.3	0.1	0.1	-7777	0.7	0.3	0.2	0.0	0.0	0.0	0.4
11	3.8	2.5	1.3	0.3	0.1	0.1	2.1	0.6	0.3	0.1	1.0	2.7	4.6
12	5.3	3.8	1.9	0.6	0.2	0.1	8.3	4.9	3.1	1.1	1.3	2.9	6.7
Summary	30.3	18.8	9.4	3.3	1.3	0.4	34.0	20.1	11.9	3.5	7.3	19.6	39.6

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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: **BENKELMAN, NE US**

GHCND:USC00250760
Elev: 2995 ft. Lat: 40.050° N Lon: 101.533° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	39	143	324	641	928	1151	1087	763	395	115	18
45	4	12	71	211	489	778	996	931	615	266	58	4
50	-7777	2	28	120	346	629	841	776	470	158	22	1
55	-7777	-7777	8	56	218	481	686	622	332	77	5	-7777
60	0	-7777	1	21	119	339	532	468	212	29	1	0
Growing Degree Units for Corn (Monthly)												
50/86	43	63	147	245	399	586	732	692	479	295	123	42

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	57	200	524	1165	2093	3244	4331	5094	5489	5604	5622
45	4	16	87	298	787	1565	2561	3492	4107	4373	4431	4435
50	-7777	2	30	150	496	1125	1966	2742	3212	3370	3392	3393
55	-7777	-7777	8	64	282	763	1449	2071	2403	2480	2485	-7777
60	0	-7777	1	22	141	480	1012	1480	1692	1721	1722	1722
Growing Degree Units for Corn (Monthly)												
50/86	43	106	253	498	897	1483	2215	2907	3386	3681	3804	3846

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: **WYMORE, NE US**

GHCND:USC00259475

Elev: 1253 ft. Lat: 40.127° N Lon: 96.671° 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	0.75	4.0	2.1	0.4	0.0	0.47	0.63	1.13
2	0.90	4.0	2.4	0.4	0.1	0.33	0.64	1.28
3	2.28	6.8	4.6	1.4	0.5	1.00	2.29	3.17
4	3.09	8.2	5.9	1.8	0.7	2.08	2.54	3.85
5	4.39	10.1	7.5	3.0	1.2	2.39	3.73	6.11
6	4.77	8.5	6.8	3.2	1.5	3.06	4.51	6.79
7	3.96	8.0	6.2	2.6	1.2	2.25	3.70	4.89
8	3.55	7.3	5.9	2.5	1.0	1.65	3.03	5.27
9	3.62	6.5	5.0	2.3	1.1	1.78	3.74	4.78
10	2.10	6.3	4.4	1.4	0.3	1.18	1.94	2.88
11	1.37	5.1	3.0	0.8	0.3	0.76	1.05	1.82
12	1.04	5.5	3.0	0.6	0.1	0.32	0.80	1.41
Summary	31.82	80.3	56.8	20.4	8.0	17.27	28.60	43.38

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 1981-2010**

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

Station: **WYMORE, NE US**

GHCND:USC00259475
 Elev: 1253 ft. Lat: 40.127° N Lon: 96.671° 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	2.8	2.2	1.0	0.3	0.0	12.1	8.0	4.7	1.1	3.5	6.0	9.0
2	4.6	2.2	1.7	0.7	0.3	0.0	8.4	4.6	2.9	0.6	0.0	3.2	7.5
3	2.5	1.3	0.8	0.4	0.1	0.0	2.4	0.9	0.5	0.2	0.0	1.0	2.8
4	0.3	0.1	0.1	0.1	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	0.2	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.7	0.8	0.7	0.2	0.1	0.0	1.5	0.7	0.3	0.0	0.0	0.0	1.3
12	6.2	3.0	2.2	0.7	0.2	-7777	9.6	6.3	3.8	1.4	1.5	4.6	8.3
Summary	21.8	10.2	7.7	3.1	1.0	0.0	34.1	20.5	12.2	3.3	5.0	14.8	28.9

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

Station: **STERLING, NE US**

GHCND:USC00258202

Elev: 1211 ft. Lat: 40.458° N Lon: 96.377° 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	3.2	2.3	0.4	0.1	0.38	0.76	1.14
2	1.08	3.6	2.9	0.9	0.2	0.67	0.94	1.39
3	2.29	5.5	4.3	1.9	0.5	0.88	2.06	3.24
4	2.82	7.1	5.5	2.0	0.5	1.87	2.60	3.22
5	5.09	9.0	7.4	3.3	1.5	3.23	4.31	6.19
6	3.73	7.0	5.9	2.5	1.0	2.46	3.67	5.00
7	4.21	7.1	6.1	3.0	1.2	2.62	3.64	5.20
8	3.67	6.6	5.3	2.7	1.1	1.62	3.78	5.60
9	2.71	5.3	4.4	1.9	0.7	1.87	2.46	3.05
10	2.09	5.2	4.1	1.2	0.3	1.21	1.89	2.86
11	1.54	4.4	3.0	0.9	0.3	0.94	1.24	2.38
12	1.07	3.4	2.4	0.7	0.1	0.42	0.67	1.50
Summary	31.23	67.4	53.6	21.4	7.5	18.17	28.02	40.77

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

Station: **STERLING, NE US**

GHCND:USC00258202
 Elev: 1211 ft. Lat: 40.458° N Lon: 96.377° 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	2.3	2.0	0.9	0.3	0.0	7.9	5.8	2.7	-7777	0.0	6.3	12.3
2	6.0	2.3	2.1	0.9	0.6	0.1	7.3	4.3	2.5	0.6	2.0	4.3	9.3
3	2.1	1.1	1.0	0.4	0.2	-7777	2.2	1.4	0.7	0.1	0.0	1.4	3.3
4	0.7	0.2	0.2	0.1	-7777	0.0	0.3	0.2	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	0.5	0.1	0.1	0.1	-7777	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0
11	1.3	0.6	0.5	0.2	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	2.0
12	5.5	2.1	1.8	0.7	0.3	-7777	6.5	3.9	1.7	0.1	2.0	3.5	5.6
Summary	22.4	8.7	7.7	3.3	1.5	0.1	24.8	16.0	7.9	0.8	4.0	15.5	32.5

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

Station: **ROYAL 2 SE, NE US**

GHCND:USC00257351

Elev: 1854 ft. Lat: 42.320° N Lon: 98.093° 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	4.1	1.9	0.3	0.0	0.27	0.57	0.86
2	0.96	4.6	3.4	0.5	0.1	0.50	0.88	1.28
3	2.22	6.0	4.9	0.9	0.3	0.80	2.08	3.15
4	3.48	8.9	7.8	2.7	1.2	1.71	3.48	4.81
5	4.26	8.1	6.8	2.6	1.1	2.74	3.47	5.19
6	4.14	7.6	7.0	3.1	1.1	2.31	3.96	5.75
7	3.11	5.1	4.6	1.9	0.4	1.92	2.86	4.08
8	2.83	5.3	4.5	2.1	1.1	1.75	2.48	4.21
9	2.60	4.5	4.1	2.0	0.9	1.41	2.33	3.43
10	2.36	5.5	4.6	1.7	0.8	0.76	1.59	3.95
11	1.32	3.3	2.6	0.9	0.3	0.55	1.08	1.62
12	0.94	4.1	2.4	0.4	0.1	0.27	0.78	1.16
Summary	28.82	67.1	54.6	19.1	7.4	14.99	25.56	39.49

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

Station: **ROYAL 2 SE, NE US**

GHCND:USC00257351
 Elev: 1854 ft. Lat: 42.320° N Lon: 98.093° 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	8.8	3.4	3.1	0.8	0.5	0.1	19.1	13.6	8.7	2.2	5.5	7.5	12.8
2	11.1	3.6	3.4	1.4	0.7	0.2	14.6	11.7	10.0	5.4	7.9	10.0	14.5
3	10.4	3.9	3.7	1.6	0.6	0.1	10.9	7.6	5.6	2.6	5.1	8.6	13.0
4	7.0	1.4	1.4	0.9	0.5	0.1	2.5	1.8	1.1	0.2	0.0	6.0	15.0
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	1.6	0.6	0.6	0.3	0.1	0.0	1.1	0.6	0.1	0.0	0.0	0.0	3.1
11	4.2	1.5	1.5	0.7	0.4	0.1	4.6	3.1	2.2	0.4	0.0	2.4	5.9
12	9.4	3.8	3.5	1.5	0.4	0.0	17.1	12.7	7.6	1.6	4.0	8.0	12.9
Summary	52.5	18.2	17.2	7.2	3.2	0.6	69.9	51.1	35.3	12.4	22.5	42.5	77.2

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

Station: **SALEM 5 SW, NE US**

GHCND:USC00257545

Elev: 1050 ft. Lat: 40.022° N Lon: 95.788° 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	0.83	@	@	@	@			
2	1.12	@	@	@	@			
3	2.61	@	@	@	@			
4	3.15	@	@	@	@			
5	4.75	@	@	@	@			
6	4.71	@	@	@	@			
7	4.60	@	@	@	@			
8	3.81	@	@	@	@			
9	3.45	@	@	@	@			
10	2.61	@	@	@	@			
11	1.79	@	@	@	@			
12	1.13	@	@	@	@			
Summary	34.56	9999	9999	9999	9999	9999	9999	9999

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

Station: **ORD EVELYN SHARP FIELD, NE US**

GHCND:USW00094958

Elev: 2064 ft. Lat: 41.623° N Lon: 98.948° 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	12.3	24.6	6.2	4.5	5.1	0	0	0	0	0	0	942	1004	1097	1252	0.0	0.0	5.5	11.5	30.7	5.3
2	40.2	15.4	27.8	7.5	4.7	5.9	0	0	0	0	0	0	761	817	901	1041	0.0	0.0	6.5	7.8	27.0	3.0
3	50.8	24.6	37.7	5.3	3.6	4.0	6	4	1	-7777	0	0	543	602	693	846	0.0	0.0	16.9	2.4	24.2	0.4
4	61.6	35.9	48.8	4.6	2.5	3.2	34	22	10	2	-7777	0	222	270	348	490	0.0	0.0	24.6	0.0	9.3	0.0
5	71.7	46.8	59.3	3.4	2.8	2.8	181	143	93	39	12	6	50	73	116	217	0.0	0.7	30.9	0.0	1.0	0.0
6	81.2	57.1	69.2	3.8	2.6	3.0	426	368	285	162	70	44	2	4	10	37	0.0	4.1	30.0	0.0	0.0	0.0
7	87.3	61.5	74.4	3.2	2.9	2.9	601	539	447	297	159	113	-7777	-7777	1	5	0.3	10.7	31.0	0.0	0.0	0.0
8	85.6	60.4	73.0	2.9	2.5	2.5	558	496	404	257	129	90	-7777	-7777	1	9	0.4	8.2	31.0	0.0	0.0	0.0
9	78.1	49.1	63.6	4.8	2.6	3.2	279	230	164	81	34	22	22	32	56	123	0.0	3.3	29.9	0.0	0.5	0.0
10	63.0	36.3	49.6	4.0	2.7	2.9	52	36	20	7	3	2	218	264	340	483	0.0	0.5	26.5	0.3	9.8	0.0
11	48.5	24.1	36.3	6.6	3.2	4.5	2	1	-7777	-7777	0	0	563	622	711	861	0.0	0.0	14.2	4.1	24.0	0.4
12	36.6	13.2	24.9	6.8	5.6	6.1	0	0	0	0	0	0	932	994	1088	1243	0.0	0.0	5.4	11.0	30.7	3.8
Summary	61.8	36.4	49.1	4.9	3.4	3.8	2139	1839	1424	845	407	277	4255	4682	5362	6607	0.7	27.5	252.4	37.1	157.2	12.9

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-4444: year-round risk of frost-freeze

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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: **ORD EVELYN SHARP FIELD, NE US**

GHCND:USW00094958

Elev: 2064 ft. Lat: 41.623° N Lon: 98.948° 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	0.37	@	@	@	@			
2	0.44	@	@	@	@			
3	1.45	@	@	@	@			
4	2.59	@	@	@	@			
5	3.81	@	@	@	@			
6	4.12	@	@	@	@			
7	2.97	@	@	@	@			
8	3.16	@	@	@	@			
9	2.44	@	@	@	@			
10	1.93	@	@	@	@			
11	1.07	@	@	@	@			
12	0.59	@	@	@	@			
Summary	24.94	9999	9999	9999	9999	9999	9999	9999

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Station: **ORD EVELYN SHARP FIELD, NE US**

GHCND:USW00094958

Elev: 2064 ft. Lat: 41.623° N Lon: 98.948° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	16	96	287	597	875	1066	1023	708	322	75	5
45	1	4	44	174	445	724	911	867	559	203	32	-7777
50	-7777	1	19	88	302	574	756	713	414	110	8	-7777
55	0	0	6	34	181	426	601	558	279	52	2	0
60	0	0	1	10	93	285	447	404	164	20	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	27	94	191	362	563	705	675	454	223	72	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	24	120	407	1004	1879	2945	3968	4676	4998	5073	5078
45	1	5	49	223	668	1392	2303	3170	3729	3932	3964	-7777
50	-7777	1	20	108	410	984	1740	2453	2867	2977	2985	-7777
55	0	0	6	40	221	647	1248	1806	2085	2137	2139	2139
60	0	0	1	11	104	389	836	1240	1404	1424	-7777	1424
Growing Degree Units for Corn (Monthly)												
50/86	21	48	142	333	695	1258	1963	2638	3092	3315	3387	3402

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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Station: **WALLACE 2 W, NE US**

GHCND:USC00258920
 Elev: 3100 ft. Lat: 40.843° N Lon: 101.209° 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	12.2	25.4	6.0	4.2	4.8	0	0	0	0	0	0	919	981	1074	1229	0.0	0.0	6.2	9.3	30.9	4.5
2	42.7	15.0	28.9	6.6	4.6	5.3	-7777	-7777	0	0	0	0	732	788	872	1012	0.0	0.0	9.5	6.6	27.4	3.1
3	51.6	22.5	37.0	4.0	3.2	3.4	3	1	-7777	0	0	0	559	620	712	866	0.0	0.0	17.9	3.2	27.0	0.8
4	61.7	31.6	46.7	4.5	2.5	3.1	30	20	10	2	-7777	-7777	280	330	410	552	0.0	0.2	23.9	0.4	15.7	0.0
5	72.1	44.4	58.3	3.6	2.4	2.7	165	127	81	29	6	3	64	89	136	238	-7777	1.1	30.3	0.0	1.8	0.0
6	82.3	54.5	68.4	3.9	2.3	2.9	407	349	267	149	63	41	5	7	15	47	0.8	6.3	29.9	0.0	0.0	0.0
7	89.4	60.1	74.8	2.8	1.7	2.0	612	550	458	307	169	122	-7777	-7777	1	5	2.7	14.6	31.0	0.0	0.0	0.0
8	87.0	57.6	72.3	3.6	2.2	2.7	537	476	385	239	117	79	1	1	3	13	1.2	11.3	31.0	0.0	0.0	0.0
9	78.3	46.5	62.4	3.8	2.4	2.7	255	209	148	68	21	11	33	47	76	146	0.1	4.1	29.5	0.0	1.3	0.0
10	65.2	33.6	49.4	4.0	2.3	2.7	46	31	15	3	-7777	-7777	220	267	344	487	0.0	0.3	26.9	0.4	12.7	0.0
11	49.9	21.8	35.9	6.1	3.5	4.5	2	1	-7777	0	0	0	577	635	725	874	0.0	0.0	15.1	3.5	26.7	0.5
12	39.0	12.2	25.6	6.5	4.8	5.5	0	0	0	0	0	0	911	973	1066	1221	0.0	0.0	6.9	9.2	30.9	3.9
Summary	63.1	34.3	48.8	4.6	3.0	3.5	2057	1764	1364	797	376	256	4301	4738	5434	6690	4.8	37.9	258.1	32.6	174.4	12.8

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

Station: **WALLACE 2 W, NE US**

GHCND:USC00258920

Elev: 3100 ft. Lat: 40.843° N Lon: 101.209° 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	0.28	2.8	0.7	0.1	0.0	0.08	0.19	0.41
2	0.46	3.8	1.2	0.2	-7777	0.15	0.31	0.73
3	1.01	5.7	3.1	0.5	0.1	0.41	0.94	1.48
4	2.05	7.0	4.6	1.2	0.3	1.35	1.78	2.63
5	3.25	10.4	6.9	2.3	0.7	1.75	3.19	4.54
6	3.75	10.0	7.0	2.3	0.8	2.17	4.11	5.29
7	3.08	8.0	5.5	2.0	1.0	1.89	2.66	3.94
8	2.56	6.7	4.4	1.6	0.7	1.06	1.60	3.89
9	1.60	5.7	3.6	1.0	0.3	0.69	1.37	2.36
10	1.59	5.7	3.7	1.1	0.3	0.59	1.40	2.28
11	0.64	3.5	1.5	0.2	-7777	0.17	0.50	1.00
12	0.40	3.1	1.0	0.1	0.0	0.09	0.30	0.46
Summary	20.67	72.4	43.2	12.6	4.2	10.40	18.35	29.01

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Station: **WALLACE 2 W, NE US**

GHCND:USC00258920

Elev: 3100 ft. Lat: 40.843° N Lon: 101.209° 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	2.4	1.4	0.3	0.2	0.0	12.2	6.0	2.7	0.0	1.0	2.4	4.3
2	4.2	2.9	2.1	0.4	0.1	0.0	8.8	3.2	1.7	0.5	1.5	2.4	6.5
3	4.2	2.6	2.1	0.4	0.1	0.0	5.1	2.3	0.9	0.0	2.5	3.8	6.1
4	2.5	1.1	1.0	0.3	0.1	0.0	1.6	0.6	0.2	0.0	0.0	1.0	4.5
5	0.1	0.1	-7777	0.0	0.0	0.0	0.1	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	0.2	0.1	0.1	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	1.4	0.6	0.5	0.2	0.1	-7777	1.0	0.5	0.3	-7777	0.0	0.0	1.9
11	3.6	2.2	1.5	0.3	0.2	0.0	4.9	1.4	0.5	0.1	1.0	2.3	4.8
12	3.6	2.5	1.7	0.4	0.1	0.0	10.9	5.1	2.1	0.2	0.5	3.0	6.0
Summary	23.1	14.5	10.4	2.3	0.9	0.0	44.7	19.1	8.4	0.8	6.5	14.9	34.1

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Station: **WALLACE 2 W, NE US**

GHCND:USC00258920
Elev: 3100 ft. Lat: 40.843° N Lon: 101.209° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	22	88	243	567	852	1077	1001	673	322	75	7
45	1	6	37	144	417	702	922	846	526	203	34	1
50	-7777	1	12	72	279	553	767	691	385	109	11	-7777
55	0	-7777	3	30	165	407	612	537	255	46	2	0
60	0	0	-7777	10	81	267	458	385	148	15	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	22	42	104	199	353	533	688	638	430	250	88	24

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	31	119	362	929	1781	2858	3859	4532	4854	4929	4936
45	1	7	44	188	605	1307	2229	3075	3601	3804	3838	3839
50	-7777	1	13	85	364	917	1684	2375	2760	2869	2880	-7777
55	0	-7777	3	33	198	605	1217	1754	2009	2055	2057	2057
60	0	0	-7777	10	91	358	816	1201	1349	1364	-7777	1364
Growing Degree Units for Corn (Monthly)												
50/86	22	64	168	367	720	1253	1941	2579	3009	3259	3347	3371

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: **RAGAN, NE US**

GHCND:USC00257002

Elev: 2241 ft. Lat: 40.312° N Lon: 99.290° 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	15.4	26.5	6.5	4.7	5.4	0	0	0	0	0	0	882	944	1037	1192	0.0	0.0	6.2	10.8	30.4	2.9
2	41.4	18.1	29.7	6.9	5.1	5.7	1	-7777	-7777	0	0	0	707	763	847	987	0.0	0.0	8.0	7.7	26.6	1.7
3	52.2	27.4	39.8	5.0	3.4	3.8	10	6	2	-7777	0	0	481	539	628	781	0.0	0.0	17.6	3.0	20.8	0.4
4	63.3	37.3	50.3	4.5	3.1	3.4	61	43	23	5	1	-7777	202	244	314	446	0.0	0.2	25.1	0.3	8.0	0.0
5	72.2	49.1	60.7	3.9	2.3	2.9	214	171	116	49	14	7	39	58	96	184	0.1	1.2	30.6	0.0	0.2	0.0
6	82.8	58.7	70.8	3.6	2.7	3.0	475	417	332	202	99	69	2	4	10	29	0.3	6.9	30.0	0.0	0.0	0.0
7	88.5	64.1	76.3	3.3	1.9	2.4	660	598	505	353	211	160	-7777	-7777	-7777	3	2.1	13.6	31.0	0.0	0.0	0.0
8	86.4	62.0	74.2	3.3	2.6	2.8	595	533	441	292	159	116	-7777	1	2	7	1.5	10.1	31.0	0.0	0.0	0.0
9	77.9	52.1	65.0	3.7	2.6	2.8	317	266	196	103	43	27	17	26	46	103	0.1	3.8	29.9	0.0	0.2	0.0
10	65.1	39.2	52.2	3.8	2.8	2.9	80	56	31	10	2	1	168	207	274	408	0.0	0.2	27.3	0.4	6.1	0.0
11	50.5	27.4	39.0	5.9	4.4	4.9	7	3	1	-7777	0	0	488	545	632	782	0.0	0.0	15.8	3.0	20.5	0.1
12	38.0	16.8	27.4	6.3	5.5	5.6	0	0	0	0	0	0	855	917	1010	1165	0.0	0.0	5.2	9.8	30.4	1.5
Summary	63.0	39.0	51.0	4.7	3.4	3.8	2420	2093	1647	1014	529	380	3841	4248	4896	6087	4.1	36.0	257.7	35.0	143.2	6.6

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Station: **RAGAN, NE US**

GHCND:USC00257002

Elev: 2241 ft. Lat: 40.312° N Lon: 99.290° 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	0.32	2.8	1.1	0.1	0.0	0.09	0.28	0.51
2	0.58	3.3	1.5	0.3	-7777	0.15	0.58	0.83
3	1.65	5.4	3.5	1.2	0.4	0.61	1.49	2.37
4	2.06	7.0	4.2	1.2	0.3	1.39	1.81	2.70
5	4.45	10.4	7.3	2.8	1.1	2.57	4.69	5.83
6	3.64	9.0	6.0	2.3	0.8	1.96	3.81	4.87
7	3.84	6.8	5.3	2.6	1.3	1.71	3.56	4.62
8	2.93	6.3	5.1	1.9	0.8	1.46	2.42	3.86
9	2.01	5.6	3.7	1.2	0.5	0.99	1.94	2.61
10	1.82	5.4	3.4	1.4	0.3	0.62	1.50	2.42
11	1.01	3.9	2.4	0.7	0.2	0.27	0.65	1.98
12	0.55	3.3	1.3	0.3	-7777	0.10	0.34	0.59
Summary	24.86	69.2	44.8	16.0	5.7	11.92	23.07	33.19

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Station: **RAGAN, NE US**

GHCND:USC00257002
 Elev: 2241 ft. Lat: 40.312° N Lon: 99.290° 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	4.8	2.7	1.9	0.6	0.2	0.0	10.3	4.9	2.6	0.3	1.4	3.9	7.1
2	4.9	2.3	1.8	0.6	0.3	0.1	9.9	5.5	3.1	1.1	1.7	3.9	7.8
3	4.5	1.8	1.3	0.5	0.2	0.1	3.3	1.9	1.3	0.4	1.5	3.2	6.0
4	1.3	0.8	0.7	0.4	0.1	0.0	0.9	0.5	0.2	0.0	0.0	0.0	1.3
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	0.2	-7777	-7777	-7777	-7777	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	0.6	0.2	0.1	0.1	-7777	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0
11	3.3	1.6	1.2	0.5	0.2	-7777	3.3	1.3	0.6	0.2	0.4	1.5	5.2
12	3.9	2.5	1.8	0.5	0.1	0.0	9.8	5.0	2.9	0.6	1.0	3.5	6.0
Summary	23.5	11.9	8.8	3.2	1.1	0.2	37.8	19.3	10.8	2.6	6.0	16.0	33.4

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
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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: **RAGAN, NE US**

GHCND:USC00257002
Elev: 2241 ft. Lat: 40.312° N Lon: 99.290° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	28	142	334	640	922	1125	1060	750	393	114	9
45	3	8	75	218	487	772	970	905	602	265	58	2
50	-7777	2	32	126	341	623	815	750	456	159	24	-7777
55	0	1	10	61	214	475	660	595	317	80	7	0
60	0	-7777	2	23	116	332	505	441	196	31	1	0
Growing Degree Units for Corn (Monthly)												
50/86	23	35	113	218	380	594	744	697	466	252	88	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	15	43	185	519	1159	2081	3206	4266	5016	5409	5523	5532
45	3	11	86	304	791	1563	2533	3438	4040	4305	4363	4365
50	-7777	2	34	160	501	1124	1939	2689	3145	3304	3328	-7777
55	0	1	11	72	286	761	1421	2016	2333	2413	2420	2420
60	0	-7777	2	25	141	473	978	1419	1615	1646	1647	1647
Growing Degree Units for Corn (Monthly)												
50/86	23	58	171	389	769	1363	2107	2804	3270	3522	3610	3624

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: AINSWORTH, NE US

GHCND:USC00250050
 Elev: 2510 ft. Lat: 42.552° N Lon: 99.856° 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	15.4	25.8	6.5	5.8	6.0	0	0	0	0	0	0	905	967	1060	1215	0.0	0.0	5.4	11.0	28.6	4.6
2	39.7	18.3	29.0	6.8	5.8	6.2	-7777	-7777	-7777	0	0	0	728	784	868	1008	0.0	0.0	7.5	8.4	25.0	2.8
3	49.6	26.3	37.9	5.3	3.6	4.2	7	4	1	-7777	-7777	-7777	535	594	685	839	0.0	0.0	16.4	3.8	21.7	0.6
4	60.9	36.0	48.4	4.9	2.8	3.6	51	36	21	7	2	1	247	293	368	503	0.0	0.2	24.0	0.6	10.1	0.0
5	71.0	47.2	59.1	3.4	2.5	2.7	182	142	93	36	9	4	55	77	121	219	0.0	0.7	30.4	0.0	0.8	0.0
6	80.3	56.8	68.6	3.6	2.7	3.0	410	353	270	149	64	42	3	6	14	43	0.1	3.7	30.0	0.0	0.0	0.0
7	86.9	62.6	74.7	3.2	2.2	2.6	612	550	457	307	172	127	-7777	-7777	-7777	5	1.2	10.7	31.0	0.0	0.0	0.0
8	84.9	61.0	72.9	3.1	2.3	2.6	557	496	404	259	133	93	1	1	3	12	0.4	7.9	31.0	0.0	0.0	0.0
9	76.4	51.2	63.8	3.5	2.5	2.8	289	241	175	90	34	20	25	37	61	126	0.0	2.2	29.6	0.0	0.4	0.0
10	63.4	39.2	51.3	3.6	2.2	2.7	74	53	29	9	2	1	189	230	299	433	0.0	0.2	26.3	0.3	6.5	0.0
11	47.4	26.4	36.9	6.7	4.5	5.5	7	4	2	-7777	0	0	550	607	695	843	0.0	0.0	13.2	4.4	20.9	0.7
12	36.2	16.5	26.4	6.7	5.8	6.2	-7777	-7777	-7777	0	0	0	888	950	1043	1198	0.0	0.0	4.8	10.9	29.3	3.5
Summary	61.1	38.1	49.6	4.8	3.6	4.0	2189	1879	1452	857	416	288	4126	4546	5217	6444	1.7	25.6	249.6	39.4	143.3	12.2

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

Station: **AINSWORTH, NE US**

GHCND:USC00250050

Elev: 2510 ft. Lat: 42.552° N Lon: 99.856° 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	0.41	4.8	1.1	0.1	0.0	0.18	0.31	0.47
2	0.55	5.9	1.7	0.2	-7777	0.23	0.46	0.76
3	1.35	7.6	3.2	0.8	0.2	0.69	1.15	1.85
4	2.47	9.3	5.1	1.9	0.4	1.32	2.39	3.30
5	3.46	11.0	6.2	2.3	0.8	2.30	3.01	5.04
6	3.71	10.7	6.4	2.4	0.8	2.13	3.41	5.29
7	3.09	9.7	5.8	1.8	0.7	1.85	2.80	3.93
8	2.86	8.0	4.6	2.1	0.9	1.95	2.88	3.29
9	2.48	7.3	4.1	1.5	0.8	1.13	2.08	3.59
10	1.69	6.8	3.5	1.2	0.3	0.64	1.71	2.27
11	0.82	5.2	2.3	0.5	0.1	0.27	0.80	1.40
12	0.45	4.9	1.2	0.2	-7777	0.16	0.36	0.63
Summary	23.34	91.2	45.2	15.0	5.0	12.85	21.36	31.82

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www.ncdc.noaa.gov

Station: **AINSWORTH, NE US**

GHCND:USC00250050

Elev: 2510 ft. Lat: 42.552° N Lon: 99.856° 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	2.7	1.8	0.5	0.2	-7777	13.4	7.2	3.7	1.1	1.5	3.0	5.0
2	5.8	3.3	2.3	0.5	0.2	0.0	10.0	5.3	2.7	0.8	2.0	4.5	8.0
3	7.5	3.3	2.8	0.9	0.3	-7777	5.9	2.8	1.3	0.2	1.7	6.8	10.7
4	5.7	1.8	1.4	0.7	0.4	-7777	1.9	0.8	0.5	0.1	0.0	2.0	8.0
5	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
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	0.2	0.1	0.1	-7777	0.0	0.0	-7777	-7777	0.0	0.0	0.0	0.0	0.0
10	1.5	0.6	0.5	0.2	0.1	0.0	0.6	0.2	-7777	0.0	0.0	0.0	1.0
11	5.9	2.5	1.9	0.7	0.3	0.1	5.4	2.8	1.5	0.6	1.5	3.0	7.8
12	5.8	3.1	2.5	0.5	0.2	0.1	13.6	6.5	3.4	1.3	2.0	5.5	9.0
Summary	36.9	17.5	13.4	4.0	1.7	0.2	50.8	25.6	13.1	4.1	8.7	24.8	49.5

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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: AINSWORTH, NE US

GHCND:USC00250050

Elev: 2510 ft. Lat: 42.552° N Lon: 99.856° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	32	114	291	592	856	1077	1021	714	374	101	16
45	5	11	56	184	441	706	922	866	567	250	52	4
50	1	2	22	103	301	557	767	711	423	147	22	1
55	0	-7777	7	51	182	410	612	557	289	74	7	-7777
60	0	-7777	1	21	93	270	457	404	175	29	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	17	29	89	190	353	548	714	676	445	230	71	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	50	164	455	1047	1903	2980	4001	4715	5089	5190	5206
45	5	16	72	256	697	1403	2325	3191	3758	4008	4060	4064
50	1	3	25	128	429	986	1753	2464	2887	3034	3056	3057
55	0	-7777	7	58	240	650	1262	1819	2108	2182	2189	-7777
60	0	-7777	1	22	115	385	842	1246	1421	1450	1452	-7777
Growing Degree Units for Corn (Monthly)												
50/86	17	46	135	325	678	1226	1940	2616	3061	3291	3362	3377

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: **OCONTO, NE US**

GHCND:USC00256167

Elev: 2579 ft. Lat: 41.144° N Lon: 99.763° 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	37.3	12.0	24.6	6.6	4.9	5.5	0	0	0	0	0	0	941	1003	1096	1251	0.0	0.0	6.2	10.7	30.6	4.8
2	40.6	15.7	28.1	6.8	5.2	5.7	-7777	-7777	-7777	0	0	0	752	808	892	1032	0.0	0.0	7.7	7.8	26.7	3.4
3	50.9	24.0	37.5	4.9	3.8	3.9	3	1	-7777	-7777	0	0	547	607	699	854	0.0	0.0	17.1	2.9	24.9	0.6
4	62.1	33.6	47.9	5.0	2.9	3.6	41	29	16	4	-7777	-7777	256	303	380	519	0.0	0.1	24.9	0.3	13.3	0.0
5	71.7	45.4	58.5	3.6	2.7	2.8	167	129	81	29	7	3	57	80	126	229	-7777	0.5	30.6	0.0	1.8	0.0
6	81.5	55.5	68.5	3.8	2.7	3.0	408	350	268	147	62	40	3	5	13	42	0.2	4.2	30.0	0.0	0.0	0.0
7	86.7	61.2	73.9	3.3	2.1	2.4	587	525	433	283	149	105	-7777	-7777	1	6	1.0	9.7	31.0	0.0	0.0	0.0
8	84.8	58.8	71.8	3.6	2.4	2.9	521	460	369	226	109	73	-7777	1	3	15	0.4	7.8	31.0	0.0	0.0	0.0
9	77.1	48.1	62.6	3.8	2.8	2.9	257	210	148	71	25	14	29	42	70	143	0.0	2.5	29.7	0.0	1.4	0.0
10	64.3	35.6	50.0	4.1	2.3	2.6	48	33	17	4	1	-7777	205	251	328	471	0.0	0.1	27.5	0.2	10.9	0.0
11	48.9	22.5	35.7	6.5	3.6	4.7	2	1	-7777	-7777	0	0	581	640	729	879	0.0	0.0	14.5	3.6	25.8	0.8
12	37.4	13.1	25.3	7.1	5.0	5.9	0	0	0	0	0	0	922	984	1077	1232	0.0	0.0	5.6	9.9	30.7	3.8
Summary	61.9	35.5	48.7	4.9	3.4	3.8	2034	1738	1332	764	353	235	4293	4724	5414	6673	1.6	24.9	255.8	35.4	166.1	13.4

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

Station: **OCONTO, NE US**

GHCND:USC00256167

Elev: 2579 ft. Lat: 41.144° N Lon: 99.763° 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	0.46	1.7	0.8	0.2	-7777	0.11	0.27	0.74
2	0.49	2.6	1.5	-7777	0.0	0.22	0.38	0.71
3	1.42	4.1	3.0	0.9	0.2	0.46	0.94	1.93
4	2.44	5.5	4.5	1.2	0.4	1.37	2.21	2.99
5	3.99	8.2	6.8	2.6	1.1	2.66	3.25	4.85
6	3.74	7.2	5.9	2.6	1.0	2.39	3.20	5.04
7	2.96	6.3	5.2	1.9	0.7	1.01	1.97	4.24
8	2.76	5.4	4.3	1.8	0.8	1.95	2.74	3.49
9	2.06	4.5	3.7	1.3	0.4	0.89	1.70	2.78
10	1.69	4.3	3.4	1.1	0.5	0.51	1.19	2.77
11	0.81	2.1	1.6	0.4	0.1	0.16	0.66	1.23
12	0.36	1.5	0.9	0.2	0.1	0.02	0.18	0.53
Summary	23.18	53.4	41.6	14.2	5.3	11.75	18.69	31.30

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Station: **OCONTO, NE US**

GHCND:USC00256167
 Elev: 2579 ft. Lat: 41.144° N Lon: 99.763° 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	1.5	1.3	0.6	0.4	0.0	@	@	@	@	0.0	2.7	6.3
2	5.0	2.2	1.7	0.8	0.1	0.0	@	@	@	@	2.0	4.0	8.3
3	5.4	1.9	1.7	0.7	0.2	0.0	@	@	@	@	1.0	3.0	7.0
4	3.2	0.8	0.7	0.4	0.1	-7777	@	@	@	@	0.0	0.0	5.5
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	0.8	0.3	0.3	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	3.4	1.1	1.0	0.6	0.1	-7777	@	@	@	@	0.0	3.0	5.2
12	4.0	1.7	1.5	0.8	0.3	-7777	@	@	@	@	0.0	2.5	6.3
Summary	25.7	9.5	8.2	4.0	1.2	0.0	9999	9999	9999	9999	3.0	15.2	38.6

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 -4444: year-round risk of frost-freeze
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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: **OCONTO, NE US**

GHCND:USC00256167

Elev: 2579 ft. Lat: 41.144° N Lon: 99.763° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	20	94	271	576	855	1052	985	678	331	71	6
45	2	5	43	166	424	705	897	831	531	208	31	1
50	-7777	1	15	89	284	555	742	676	389	111	9	-7777
55	0	-7777	3	41	167	408	587	521	257	48	2	0
60	0	-7777	-7777	16	81	268	433	369	148	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	32	96	202	357	550	695	645	437	238	77	16

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	28	122	393	969	1824	2876	3861	4539	4870	4941	4947
45	2	7	50	216	640	1345	2242	3073	3604	3812	3843	3844
50	-7777	1	16	105	389	944	1686	2362	2751	2862	2871	-7777
55	0	-7777	3	44	211	619	1206	1727	1984	2032	2034	2034
60	0	-7777	-7777	16	97	365	798	1167	1315	1332	-7777	1332
Growing Degree Units for Corn (Monthly)												
50/86	21	53	149	351	708	1258	1953	2598	3035	3273	3350	3366

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **ARNOLD, NE US**

GHCND:USC00250355
 Elev: 2717 ft. Lat: 41.422° N Lon: 100.184° 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	37.3	10.4	23.8	6.4	5.2	5.6	0	0	0	0	0	0	966	1028	1121	1276	0.0	0.0	6.3	11.0	30.9	6.0
2	40.1	14.0	27.1	6.6	5.2	5.7	-7777	-7777	0	0	0	0	782	838	922	1062	0.0	0.0	7.4	7.9	27.2	3.3
3	50.5	22.1	36.3	4.6	3.8	3.8	2	1	-7777	-7777	0	0	581	642	735	890	0.0	0.0	16.6	3.6	26.7	0.9
4	60.9	32.0	46.4	4.5	2.3	3.0	30	21	10	2	-7777	-7777	287	337	417	559	0.0	0.2	23.8	0.5	14.9	0.0
5	70.5	44.6	57.5	3.8	2.6	2.8	151	116	73	25	4	2	71	99	149	256	0.0	0.6	30.4	0.0	2.1	0.0
6	80.5	54.7	67.6	3.8	2.7	3.0	383	327	246	130	52	33	5	9	18	52	0.1	3.9	29.9	0.0	0.0	0.0
7	87.0	60.2	73.6	3.1	2.2	2.5	576	515	422	273	143	101	-7777	-7777	1	6	1.3	11.2	31.0	0.0	0.0	0.0
8	84.6	56.7	70.6	3.6	2.2	2.8	486	425	335	196	86	56	1	2	5	20	0.5	7.8	31.0	0.0	0.0	0.0
9	76.3	46.2	61.2	3.5	2.6	2.7	221	177	122	54	16	8	34	50	84	166	-7777	2.3	29.7	0.0	1.3	0.0
10	63.8	33.3	48.5	3.8	2.7	2.7	40	27	13	3	-7777	-7777	240	289	368	513	0.0	0.1	26.4	0.5	13.6	0.0
11	48.5	20.9	34.7	6.2	3.6	4.6	3	1	-7777	0	0	0	612	670	759	909	0.0	0.0	13.9	4.2	26.5	1.0
12	36.8	10.9	23.8	7.2	5.7	6.3	-7777	0	0	0	0	0	965	1027	1120	1275	0.0	0.0	5.3	11.0	30.8	4.7
Summary	61.4	33.8	47.6	4.8	3.4	3.8	1892	1610	1221	683	301	200	4544	4991	5699	6984	1.9	26.1	251.7	38.7	174.0	15.9

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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: **ARNOLD, NE US**

GHCND:USC00250355

Elev: 2717 ft. Lat: 41.422° N Lon: 100.184° 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	0.38	3.0	1.1	0.2	-7777	0.07	0.27	0.63
2	0.62	4.1	1.8	0.2	-7777	0.23	0.68	0.90
3	1.32	5.9	3.3	0.9	0.1	0.61	0.99	1.80
4	2.64	6.9	5.0	1.9	0.5	1.39	2.29	3.46
5	3.70	9.3	6.7	2.4	0.7	2.06	3.20	4.64
6	3.70	9.6	6.9	2.8	0.9	2.34	3.43	5.07
7	3.06	8.5	6.0	2.3	0.8	1.40	3.20	4.32
8	2.58	7.4	5.2	2.2	0.7	1.77	2.39	2.94
9	1.72	6.1	4.0	1.2	0.2	0.75	1.55	2.38
10	1.81	5.4	3.3	0.8	0.4	0.69	1.47	2.58
11	1.06	3.6	2.3	0.6	0.3	0.24	0.80	1.60
12	0.42	2.3	1.1	-7777	-7777	0.08	0.20	0.43
Summary	23.01	72.1	46.7	15.5	4.6	11.63	20.47	30.75

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Station: **ARNOLD, NE US**

GHCND:USC00250355
 Elev: 2717 ft. Lat: 41.422° N Lon: 100.184° 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	6.0	2.5	1.6	0.6	0.2	0.1	@	@	@	@	2.0	5.0	9.1
2	6.2	3.2	2.2	0.7	0.3	0.0	@	@	@	@	1.0	5.0	9.0
3	5.4	3.0	2.2	0.7	0.2	0.0	@	@	@	@	2.6	5.1	8.0
4	2.5	0.9	0.8	0.5	0.1	0.0	@	@	@	@	0.0	0.0	4.0
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	1.2	0.6	0.6	0.2	0.1	-7777	@	@	@	@	0.0	0.0	1.0
11	3.7	1.6	1.3	0.5	0.2	-7777	@	@	@	@	1.5	2.7	4.4
12	5.2	2.0	1.6	0.6	0.1	0.0	@	@	@	@	1.9	3.7	8.0
Summary	30.2	13.8	10.3	3.8	1.2	0.1	9999	9999	9999	9999	9.0	21.5	43.5

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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: **ARNOLD, NE US**

GHCND:USC00250355
Elev: 2717 ft. Lat: 41.422° N Lon: 100.184° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	14	84	238	545	828	1041	950	638	298	65	4
45	1	3	36	139	396	678	886	795	491	185	29	1
50	-7777	-7777	11	69	261	529	731	640	349	98	10	-7777
55	0	-7777	2	30	151	383	576	486	221	40	3	-7777
60	0	0	-7777	10	73	246	422	335	122	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	20	29	98	187	336	524	680	612	411	232	77	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	103	341	886	1714	2755	3705	4343	4641	4706	4710
45	1	4	40	179	575	1253	2139	2934	3425	3610	3639	3640
50	-7777	-7777	11	80	341	870	1601	2241	2590	2688	2698	-7777
55	0	-7777	2	32	183	566	1142	1628	1849	1889	1892	-7777
60	0	0	-7777	10	83	329	751	1086	1208	1221	-7777	1221
Growing Degree Units for Corn (Monthly)												
50/86	20	49	147	334	670	1194	1874	2486	2897	3129	3206	3221

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: **NAPONEE, NE US**

GHCND:USC00255780

Elev: 1883 ft. Lat: 40.078° N Lon: 99.139° 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	0.47	2.8	1.4	0.2	-7777	0.16	0.33	0.64
2	0.67	2.9	2.0	0.4	-7777	0.13	0.44	1.06
3	1.72	5.0	3.8	1.2	0.3	0.46	1.47	2.52
4	2.00	5.9	4.5	1.2	0.5	1.29	1.93	2.67
5	4.57	8.9	7.2	3.0	1.3	2.54	3.69	6.21
6	3.71	7.4	5.9	2.5	1.1	2.15	3.47	4.78
7	3.43	6.1	5.5	2.3	1.0	1.75	3.10	4.37
8	2.95	6.4	5.0	2.2	0.8	1.65	2.17	3.93
9	1.87	4.3	3.5	1.1	0.4	0.77	1.69	2.70
10	1.92	4.7	3.3	1.4	0.5	0.70	1.29	2.40
11	0.97	3.2	2.5	0.5	0.2	0.38	0.52	1.78
12	0.61	2.9	1.8	0.4	-7777	0.13	0.41	0.92
Summary	24.89	60.5	46.4	16.4	6.1	12.11	20.51	33.98

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Monthly Normals
1981-2010**

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151 Patton Avenue
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www.ncdc.noaa.gov

Station: **NAPONEE, NE US**

GHCND:USC00255780

Elev: 1883 ft. Lat: 40.078° N Lon: 99.139° 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	2.1	2.0	0.5	0.2	0.0	10.0	4.8	2.6	0.6	1.4	3.1	5.0
2	5.2	2.0	1.9	0.8	0.2	0.0	7.6	4.6	2.2	0.3	1.5	4.4	8.0
3	3.8	1.3	1.2	0.5	0.3	0.0	3.2	1.5	0.8	0.1	0.0	2.0	6.0
4	0.8	0.5	0.4	0.1	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.6
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	0.3	0.2	0.1	0.0	0.0	0.0	0.0
11	2.5	1.1	1.1	0.2	0.1	0.0	2.2	0.8	0.4	0.2	0.0	1.4	4.0
12	4.1	2.3	1.9	0.4	0.1	0.0	7.7	4.1	2.4	0.5	0.0	3.0	8.0
Summary	20.8	9.4	8.6	2.5	0.9	0.0	31.6	16.1	8.5	1.7	2.9	13.9	31.6

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-4444: year-round risk of frost-freeze

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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: **RUSHVILLE, NE US**

GHCND:USC00257415
Elev: 3789 ft. Lat: 42.755° N Lon: 102.479° 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	36.8	11.3	24.0	5.3	4.5	4.7	0	0	0	0	0	0	960	1022	1115	1269	0.0	0.0	5.1	10.4	30.9	6.4
2	39.6	13.7	26.6	6.0	5.7	5.7	0	0	0	0	0	0	794	850	934	1074	0.0	0.0	6.7	7.8	27.2	3.8
3	48.3	22.4	35.4	4.8	3.3	3.8	2	1	-7777	0	0	0	611	672	764	919	0.0	0.0	15.1	4.7	26.9	1.2
4	58.3	30.6	44.5	4.3	2.4	3.2	18	11	4	-7777	-7777	0	334	387	471	617	0.0	0.0	21.9	1.3	17.0	0.1
5	68.6	41.7	55.1	4.0	2.5	3.0	114	85	49	13	2	1	110	142	199	319	0.0	0.2	29.5	0.0	3.9	0.0
6	78.6	51.6	65.1	4.2	2.8	3.3	314	260	185	84	28	16	11	17	32	81	0.1	3.1	29.7	0.0	0.0	0.0
7	85.9	58.2	72.1	3.4	2.4	2.7	529	468	377	235	118	81	1	1	3	16	0.7	10.0	31.0	0.0	0.0	0.0
8	85.0	55.9	70.4	2.8	2.5	2.5	482	421	332	195	82	51	3	4	9	26	0.2	8.8	31.0	0.0	0.0	0.0
9	74.8	44.5	59.6	4.1	2.6	3.1	193	153	101	42	11	5	53	73	112	203	0.0	2.2	29.1	0.0	1.8	0.0
10	61.6	31.8	46.7	3.8	1.9	2.4	29	17	7	1	-7777	-7777	286	337	419	568	0.0	0.0	25.2	0.7	14.2	0.1
11	46.5	20.1	33.3	7.1	3.2	5.0	1	1	-7777	0	0	0	652	712	801	951	0.0	0.0	12.2	5.2	27.6	1.2
12	35.8	10.8	23.3	6.0	5.8	5.7	0	0	0	0	0	0	982	1044	1137	1292	0.0	0.0	3.6	11.3	30.9	4.6
Summary	60.0	32.7	46.3	4.7	3.3	3.8	1682	1417	1055	570	241	154	4797	5261	5996	7335	1.0	24.3	240.1	41.4	180.4	17.4

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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: RUSHVILLE, NE US

GHCND:USC00257415
Elev: 3789 ft. Lat: 42.755° N Lon: 102.479° 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	0.33	2.3	1.8	-7777	0.0	0.20	0.33	0.51
2	0.49	2.1	1.9	0.2	-7777	0.12	0.32	0.65
3	1.09	4.0	3.3	0.7	0.2	0.77	0.98	1.48
4	1.89	5.2	4.4	1.3	0.6	0.91	1.57	2.90
5	2.54	6.3	5.7	2.0	0.7	1.61	2.25	3.17
6	3.41	6.5	5.9	2.4	0.9	1.62	3.04	5.02
7	2.34	5.8	5.0	1.7	0.6	1.50	2.23	3.00
8	1.98	4.5	4.0	1.3	0.4	0.97	1.51	2.63
9	1.51	3.3	3.1	1.0	0.3	0.82	1.20	2.07
10	1.35	2.8	2.6	0.9	0.4	0.52	1.02	1.46
11	0.56	2.7	2.4	0.2	0.0	0.38	0.53	0.77
12	0.45	1.7	1.5	0.1	0.0	0.18	0.33	0.77
Summary	17.94	47.2	41.6	11.8	4.1	9.60	15.31	24.43

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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Station: RUSHVILLE, NE US

GHCND:USC00257415
Elev: 3789 ft. Lat: 42.755° N Lon: 102.479° 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	2.4	2.1	0.6	0.1	0.0	@	@	@	@	3.0	4.0	8.0
2	5.8	2.2	2.0	0.6	0.3	-7777	@	@	@	@	2.0	5.2	7.5
3	7.6	2.6	2.5	1.3	0.4	0.1	@	@	@	@	2.5	5.2	9.7
4	5.5	1.8	1.8	0.8	0.4	0.0	@	@	@	@	1.0	5.0	10.0
5	0.4	0.1	0.1	0.1	-7777	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	0.1	0.1	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.7	0.4	0.4	0.2	0.1	-7777	@	@	@	@	0.0	0.0	0.0
11	7.4	1.9	1.9	0.9	0.3	0.0	@	@	@	@	4.0	6.0	8.0
12	5.5	1.8	1.8	0.8	0.4	0.0	@	@	@	@	3.0	4.0	8.0
Summary	39.4	13.3	12.6	5.3	2.0	0.1	9999	9999	9999	9999	15.5	29.4	51.2

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Station: RUSHVILLE, NE US

GHCND:USC00257415
Elev: 3789 ft. Lat: 42.755° N Lon: 102.479° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	13	75	199	474	753	993	944	591	255	56	3
45	-7777	3	31	109	333	604	838	789	447	151	22	-7777
50	0	-7777	10	51	210	456	683	634	311	74	7	-7777
55	0	0	2	18	114	314	529	482	193	29	1	0
60	0	0	-7777	4	49	185	377	332	101	7	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	12	23	79	161	299	467	637	604	380	204	66	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	18	93	292	766	1519	2512	3456	4047	4302	4358	4361
45	-7777	3	34	143	476	1080	1918	2707	3154	3305	3327	-7777
50	0	-7777	10	61	271	727	1410	2044	2355	2429	2436	-7777
55	0	0	2	20	134	448	977	1459	1652	1681	1682	1682
60	0	0	-7777	4	53	238	615	947	1048	1055	-7777	1055
Growing Degree Units for Corn (Monthly)												
50/86	12	35	114	275	574	1041	1678	2282	2662	2866	2932	2942

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: **BROKEN BOW MUNICIPAL AIRPORT, NE US**

GHCND:USW00094946

Elev: 2530 ft. Lat: 41.433° N Lon: 99.633° 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	13.5	25.5	6.6	4.7	5.4	0	0	0	0	0	0	913	975	1068	1223	0.0	0.0	5.9	10.7	30.2	4.6
2	40.7	15.2	28.0	6.8	4.3	5.3	-7777	-7777	0	0	0	0	757	813	897	1037	0.0	0.0	6.9	7.7	27.0	2.7
3	51.0	24.3	37.7	4.9	3.7	3.8	5	2	1	-7777	0	0	543	602	694	848	0.0	0.0	16.5	2.3	24.8	0.4
4	61.4	34.2	47.8	4.0	3.3	3.3	29	17	7	1	-7777	-7777	245	293	373	517	0.0	0.0	24.5	0.4	11.5	0.0
5	71.1	46.5	58.8	3.6	2.8	2.9	171	132	84	33	9	5	53	76	121	225	0.0	0.5	30.5	0.0	0.8	0.0
6	80.7	56.4	68.5	3.8	2.8	3.1	409	352	271	152	64	41	3	5	14	46	0.2	4.7	30.0	0.0	0.0	0.0
7	86.8	61.5	74.1	3.3	2.3	2.7	593	531	439	288	152	105	-7777	-7777	-7777	5	0.8	10.4	31.0	0.0	0.0	0.0
8	84.1	59.4	71.8	2.7	2.6	2.5	519	458	366	222	106	71	-7777	-7777	2	13	0.3	6.7	31.0	0.0	0.0	0.0
9	76.2	48.2	62.2	3.5	2.1	2.5	244	198	138	66	25	15	28	42	72	150	0.0	2.0	29.8	0.0	0.6	0.0
10	63.0	35.8	49.4	4.3	2.1	2.8	46	32	17	6	1	1	220	267	346	489	0.0	0.1	26.4	0.2	10.3	0.0
11	48.7	23.0	35.8	6.7	3.4	4.8	2	1	-7777	-7777	0	0	576	635	725	874	0.0	0.0	14.2	4.2	25.0	0.4
12	37.6	13.4	25.5	6.0	5.6	5.6	0	0	0	0	0	0	914	976	1069	1224	0.0	0.0	5.3	9.6	30.6	3.5
Summary	61.6	36.0	48.8	4.7	3.3	3.7	2018	1723	1323	768	357	238	4252	4684	5381	6651	1.3	24.4	252.0	35.1	160.8	11.6

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Station: **BROKEN BOW MUNICIPAL AIRPORT, NE US**

GHCND:USW00094946

Elev: 2530 ft. Lat: 41.433° N Lon: 99.633° 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	0.45	@	@	@	@			
2	0.56	@	@	@	@			
3	1.40	@	@	@	@			
4	2.59	@	@	@	@			
5	3.90	@	@	@	@			
6	4.00	@	@	@	@			
7	2.95	@	@	@	@			
8	2.23	@	@	@	@			
9	2.25	@	@	@	@			
10	1.84	@	@	@	@			
11	0.95	@	@	@	@			
12	0.50	@	@	@	@			
Summary	23.62	9999	9999	9999	9999	9999	9999	9999

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Station: **BROKEN BOW MUNICIPAL AIRPORT, NE US**

GHCND:USW00094946
Elev: 2530 ft. Lat: 41.433° N Lon: 99.633° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	18	94	266	583	856	1058	984	666	315	73	7
45	2	5	43	157	431	706	903	829	518	196	31	1
50	-7777	1	17	78	290	557	748	674	374	104	9	-7777
55	0	-7777	5	29	171	409	593	519	244	46	2	0
60	0	0	1	7	84	271	439	366	138	17	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	30	93	190	351	547	701	646	424	222	76	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	29	123	389	972	1828	2886	3870	4536	4851	4924	4931
45	2	7	50	207	638	1344	2247	3076	3594	3790	3821	3822
50	-7777	1	18	96	386	943	1691	2365	2739	2843	2852	-7777
55	0	-7777	5	34	205	614	1207	1726	1970	2016	2018	2018
60	0	0	1	8	92	363	802	1168	1306	1323	-7777	1323
Growing Degree Units for Corn (Monthly)												
50/86	21	51	144	334	685	1232	1933	2579	3003	3225	3301	3316

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

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Station: **ALBION, NE US**

GHCND:USC00250070

Elev: 1795 ft. Lat: 41.685° N Lon: 98.008° 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	33.1	10.7	21.9	6.9	5.6	6.1	0	0	0	0	0	0	1026	1088	1181	1336	0.0	0.0	4.1	14.4	30.7	6.3
2	37.1	14.6	25.9	6.9	5.2	5.9	-7777	-7777	-7777	0	0	0	816	872	956	1096	0.0	0.0	5.8	10.0	26.9	4.0
3	48.3	23.9	36.1	5.6	3.6	4.2	4	2	1	-7777	-7777	0	590	650	742	896	0.0	-7777	14.0	3.9	25.2	0.6
4	60.9	34.6	47.7	5.0	3.0	3.6	46	33	19	6	1	-7777	264	311	386	524	0.0	0.4	23.5	0.5	11.9	0.0
5	71.4	47.2	59.3	3.7	3.0	3.0	188	148	97	38	10	5	55	77	118	215	0.0	0.8	30.6	0.0	1.2	0.0
6	81.2	57.3	69.2	3.4	2.6	2.8	430	372	289	165	73	48	2	5	11	38	0.1	4.0	30.0	0.0	0.0	0.0
7	85.5	62.3	73.9	3.1	2.2	2.4	586	524	431	283	151	108	-7777	-7777	1	7	0.3	8.6	31.0	0.0	0.0	0.0
8	83.3	59.9	71.6	3.2	2.6	2.7	515	454	363	221	105	71	1	1	4	17	0.2	5.9	31.0	0.0	0.0	0.0
9	76.0	49.1	62.5	3.4	2.4	2.5	258	213	151	74	26	15	32	46	75	148	0.0	1.9	29.6	0.0	0.8	0.0
10	63.2	36.3	49.8	3.8	2.6	2.7	52	35	18	6	1	-7777	214	260	336	478	0.0	0.1	26.5	0.3	10.2	0.0
11	47.3	24.1	35.7	6.0	4.0	4.7	3	1	-7777	-7777	0	0	582	640	729	879	0.0	0.0	12.6	4.3	24.2	0.6
12	34.4	13.3	23.8	6.7	5.6	6.0	0	0	0	0	0	0	965	1027	1120	1275	0.0	0.0	3.6	12.2	30.6	4.0
Summary	60.1	36.1	48.1	4.8	3.5	3.9	2082	1782	1369	793	367	247	4547	4977	5659	6909	0.6	21.7	242.3	45.6	161.7	15.5

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GHCND:USC00250070

Elev: 1795 ft. Lat: 41.685° N Lon: 98.008° 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	0.49	3.9	1.4	0.1	0.0	0.20	0.52	0.63
2	0.66	4.3	2.1	0.3	0.0	0.28	0.63	0.97
3	2.01	6.8	4.0	1.4	0.5	0.63	1.87	2.96
4	2.74	8.2	5.0	1.9	0.6	1.53	2.34	3.30
5	4.09	10.1	7.2	3.2	1.1	2.69	3.93	5.21
6	4.23	9.6	6.6	2.7	1.1	2.16	3.44	5.32
7	3.38	7.9	5.4	2.2	0.9	1.68	2.74	4.20
8	3.30	7.8	5.1	2.2	1.0	1.76	3.27	4.52
9	2.96	6.8	4.6	1.7	0.8	1.54	2.89	4.12
10	1.98	6.5	4.4	1.3	0.4	0.90	1.41	3.26
11	1.37	5.1	3.2	0.8	0.3	0.43	1.04	2.08
12	0.64	4.3	1.6	0.3	-7777	0.27	0.49	0.93
Summary	27.85	81.3	50.6	18.1	6.7	14.07	24.57	37.50

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Station: **ALBION, NE US**

GHCND:USC00250070
 Elev: 1795 ft. Lat: 41.685° N Lon: 98.008° 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	4.6	3.1	1.7	0.6	0.3	0.0	12.1	8.6	4.1	0.5	1.8	3.8	7.3
2	6.2	3.2	2.3	0.8	0.3	-7777	12.0	7.8	4.7	1.4	3.0	5.0	8.6
3	5.6	2.7	1.8	0.7	0.5	0.1	5.6	3.0	1.7	0.5	0.8	2.8	7.5
4	2.4	1.0	0.7	0.3	0.2	0.0	1.1	0.4	0.1	-7777	0.0	0.4	2.5
5	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
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	0.4	0.2	-7777	0.0	0.0	0.3	-7777	0.0	0.0	0.0	0.0	0.3
11	4.0	2.0	1.3	0.4	0.2	-7777	3.9	1.1	0.4	0.0	1.0	2.1	5.0
12	4.3	3.1	1.5	0.8	0.2	0.0	10.4	5.4	2.2	1.0	0.5	3.2	6.4
Summary	27.6	15.5	9.5	3.6	1.7	0.1	45.4	26.3	13.2	3.4	7.1	17.3	37.6

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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: **ALBION, NE US**

GHCND:USC00250070

Elev: 1795 ft. Lat: 41.685° N Lon: 98.008° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	15	85	269	599	878	1051	980	677	328	76	5
45	1	5	40	166	447	727	896	824	530	210	35	1
50	-7777	1	16	92	307	578	741	669	388	115	12	0
55	0	-7777	4	46	188	430	586	515	258	52	3	0
60	0	-7777	1	19	97	289	431	363	151	18	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	13	21	80	189	362	567	702	646	429	224	65	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	21	106	375	974	1852	2903	3883	4560	4888	4964	4969
45	1	6	46	212	659	1386	2282	3106	3636	3846	3881	3882
50	-7777	1	17	109	416	994	1735	2404	2792	2907	2919	2919
55	0	-7777	4	50	238	668	1254	1769	2027	2079	2082	2082
60	0	-7777	1	20	117	406	837	1200	1351	1369	-7777	1369
Growing Degree Units for Corn (Monthly)												
50/86	13	34	114	303	665	1232	1934	2580	3009	3233	3298	3308

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: SCOTTSBLUFF 1 E, NE US

GHCND:USC00257667
 Elev: 3911 ft. Lat: 41.864° N Lon: 103.640° 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	14.9	27.9				0	0	0	0	0	0	842	904	997	1152	0.0	0.0	9.1	6.9	29.9	3.2
2	44.2	16.4	30.3				-7777	0	0	0	0	0	691	747	831	971	0.0	0.0	9.4	4.3	27.7	1.9
3	51.8	24.2	38.0				6	3	1	-7777	0	0	533	592	683	837	0.0	0.0	17.2	2.3	26.2	0.2
4	61.0	32.6	46.8				20	11	4	1	-7777	0	266	317	400	546	0.0	0.0	24.3	0.2	12.9	0.0
5	71.0	42.8	56.9				136	102	61	20	5	2	77	105	157	271	0.0	0.9	30.0	0.0	1.9	0.0
6	81.5	52.5	67.0				367	313	236	124	48	29	7	13	26	64	0.8	5.7	29.9	0.0	0.0	0.0
7	89.5	58.3	73.9				586	524	433	283	146	100	-7777	1	2	7	1.5	16.1	31.0	0.0	0.0	0.0
8	87.6	57.0	72.3				536	475	385	240	117	78	1	1	4	14	0.6	12.5	31.0	0.0	0.0	0.0
9	78.1	46.6	62.4				248	201	139	63	20	10	27	41	69	143	0.0	4.0	30.0	0.0	0.4	0.0
10	64.3	34.1	49.2				45	29	13	2	-7777	-7777	225	271	347	492	0.0	0.3	26.4	0.7	11.0	0.0
11	50.5	22.4	36.5				1	-7777	-7777	-7777	0	0	558	617	707	856	0.0	0.0	15.8	2.7	27.4	0.2
12	39.7	13.9	26.8				0	0	0	0	0	0	873	935	1028	1184	0.0	0.0	7.4	8.7	30.8	3.6
Summary	63.3	34.6	49.0	9999	9999	9999	1945	1658	1272	733	336	219	4100	4544	5251	6537	2.9	39.5	261.5	25.8	168.2	9.1

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1981-2010**

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

Station: **SCOTTSBLUFF 1 E, NE US**

GHCND:USC00257667
Elev: 3911 ft. Lat: 41.864° N Lon: 103.640° 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	0.30	@	@	@	@			
2	0.59	@	@	@	@			
3	0.98	@	@	@	@			
4	1.68	@	@	@	@			
5	2.56	@	@	@	@			
6	2.68	@	@	@	@			
7	1.79	@	@	@	@			
8	1.46	@	@	@	@			
9	1.37	@	@	@	@			
10	1.15	@	@	@	@			
11	0.64	@	@	@	@			
12	0.42	@	@	@	@			
Summary	15.62	9999	9999	9999	9999	9999	9999	9999

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Station: **SCOTTSBLUFF 1 E, NE US**

GHCND:USC00257667
Elev: 3911 ft. Lat: 41.864° N Lon: 103.640° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	17	100	240	526	810	1050	1000	670	316	67	11
45	3	4	47	137	380	660	895	845	522	198	27	1
50	-7777	1	19	65	246	511	740	691	378	106	8	-7777
55	0	-7777	6	20	136	367	586	536	248	45	1	0
60	0	0	1	4	61	236	433	385	139	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	35	103	186	332	500	662	634	424	239	81	21

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	30	130	370	896	1706	2756	3756	4426	4742	4809	4820
45	3	7	54	191	571	1231	2126	2971	3493	3691	3718	3719
50	-7777	1	20	85	331	842	1582	2273	2651	2757	2765	-7777
55	0	-7777	6	26	162	529	1115	1651	1899	1944	1945	1945
60	0	0	1	5	66	302	735	1120	1259	1272	-7777	1272
Growing Degree Units for Corn (Monthly)												
50/86	25	60	163	349	681	1181	1843	2477	2901	3140	3221	3242

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: ELSMERE, NE US

GHCND:USC00252680
 Elev: 2654 ft. Lat: 42.172° N Lon: 100.011° 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	13.5	26.9	6.4	5.4	5.7	0	0	0	0	0	0	871	933	1026	1181	0.0	0.0	8.0	8.4	30.3	4.6
2	43.8	16.1	30.0	6.3	5.6	5.7	-7777	-7777	0	0	0	0	701	757	841	981	0.0	0.0	9.7	5.9	26.8	3.1
3	53.7	24.3	39.0	5.0	3.6	3.9	6	3	1	-7777	-7777	0	502	561	652	806	0.0	0.0	19.1	2.3	24.6	0.8
4	64.5	34.0	49.3	4.8	2.7	3.5	52	37	21	7	1	1	224	269	344	479	-7777	0.7	25.6	0.1	12.6	0.0
5	74.6	45.5	60.0	3.7	2.7	2.7	198	155	102	42	12	6	41	61	101	196	0.1	1.8	30.8	0.0	1.5	0.0
6	83.6	55.0	69.3	3.6	2.9	3.0	431	373	290	165	73	49	2	4	11	36	0.7	6.5	30.0	0.0	0.0	0.0
7	90.0	60.9	75.5	3.4	2.4	2.7	634	572	479	328	189	142	0	-7777	-7777	4	2.8	15.8	31.0	0.0	0.0	0.0
8	88.1	58.9	73.5	3.2	2.3	2.6	574	512	421	274	145	103	1	1	3	10	1.6	12.2	31.0	0.0	0.0	0.0
9	80.1	48.3	64.2	3.6	2.7	2.8	299	250	183	94	37	23	23	34	57	118	0.2	5.4	29.8	0.0	1.3	0.0
10	67.4	36.2	51.8	4.1	2.1	2.7	74	53	30	8	2	1	173	214	284	418	0.0	0.9	28.2	0.2	9.8	0.0
11	51.6	23.6	37.6	6.6	3.9	5.0	6	3	1	-7777	0	0	528	585	673	822	0.0	-7777	16.2	2.7	24.4	0.8
12	40.2	13.8	27.0	6.7	5.6	6.0	-7777	-7777	0	0	0	0	868	930	1023	1178	0.0	0.0	7.5	7.9	30.5	3.9
Summary	64.8	35.8	50.3	4.8	3.5	3.9	2274	1958	1528	918	459	325	3934	4349	5015	6229	5.4	43.3	266.9	27.5	161.8	13.2

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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: **ELSMERE, NE US**

GHCND:USC00252680

Elev: 2654 ft. Lat: 42.172° N Lon: 100.011° 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	0.55	3.5	1.7	0.1	-7777	0.25	0.40	0.64
2	0.73	4.8	2.5	0.3	-7777	0.38	0.61	1.05
3	1.77	6.6	4.2	1.3	0.3	0.92	1.50	2.39
4	2.75	7.2	5.3	2.2	0.6	1.65	2.65	3.66
5	4.20	10.1	7.6	2.8	1.1	2.24	3.82	6.56
6	4.45	9.0	6.9	2.4	1.4	2.67	4.15	5.56
7	3.45	8.2	6.3	2.3	1.1	2.16	3.66	4.65
8	2.89	7.0	5.7	1.8	0.7	1.87	2.78	3.93
9	2.28	6.3	4.4	1.6	0.4	1.15	1.90	2.77
10	1.85	5.8	3.7	1.2	0.4	0.80	1.65	2.45
11	1.13	4.3	3.1	0.8	0.1	0.29	1.07	1.68
12	0.64	3.9	2.2	0.3	0.1	0.23	0.44	0.93
Summary	26.69	76.7	53.6	17.1	6.2	14.61	24.63	36.27

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 151 Patton Avenue
 Asheville, North Carolina 28801
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Station: **ELSMERE, NE US**

GHCND:USC00252680
 Elev: 2654 ft. Lat: 42.172° N Lon: 100.011° 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	8.5	2.8	2.4	0.9	0.4	0.1	@	@	@	@	3.0	6.5	10.7
2	8.0	3.4	2.8	1.1	0.3	0.1	@	@	@	@	4.0	7.0	11.0
3	8.9	3.5	3.1	1.4	0.7	0.1	@	@	@	@	2.0	7.7	11.0
4	5.2	1.6	1.4	0.7	0.3	-7777	@	@	@	@	0.0	2.2	11.0
5	0.1	0.1	0.1	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	0.5	0.2	0.1	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
10	1.6	0.6	0.6	0.4	0.1	0.0	@	@	@	@	0.0	0.0	2.1
11	6.2	2.5	2.2	1.1	0.6	-7777	@	@	@	@	2.0	5.3	9.0
12	7.9	2.8	2.4	0.9	0.4	-7777	@	@	@	@	0.5	7.0	14.0
Summary	46.9	17.5	15.1	6.6	2.8	0.3	9999	9999	9999	9999	11.5	35.7	68.8

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Station: **ELSMERE, NE US**

GHCND:USC00252680
Elev: 2654 ft. Lat: 42.172° N Lon: 100.011° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	29	121	304	622	879	1099	1038	726	384	102	14
45	3	9	59	192	469	729	944	883	578	256	52	3
50	-7777	2	23	107	324	579	789	728	434	149	21	-7777
55	0	-7777	6	52	198	431	634	574	299	74	6	-7777
60	0	0	1	21	102	290	479	421	183	30	1	0
Growing Degree Units for Corn (Monthly)												
50/86	30	43	124	230	396	561	706	670	467	279	102	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	45	166	470	1092	1971	3070	4108	4834	5218	5320	5334
45	3	12	71	263	732	1461	2405	3288	3866	4122	4174	4177
50	-7777	2	25	132	456	1035	1824	2552	2986	3135	3156	-7777
55	0	-7777	6	58	256	687	1321	1895	2194	2268	2274	-7777
60	0	0	1	22	124	414	893	1314	1497	1527	1528	1528
Growing Degree Units for Corn (Monthly)												
50/86	30	73	197	427	823	1384	2090	2760	3227	3506	3608	3635

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: **MEDICINE CREEK DAM, NE US**

GHCND:USC00255388
Elev: 2388 ft. Lat: 40.376° N Lon: 100.223° 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	41.2	12.8	27.0	6.0	4.4	4.9	-7777	0	0	0	0	0	868	930	1023	1178	0.0	0.0	8.9	8.6	30.8	3.8
2	44.6	16.3	30.4	6.7	4.9	5.4	-7777	-7777	0	0	0	0	687	743	827	967	0.0	0.0	10.0	5.7	27.0	2.6
3	54.3	24.8	39.6	4.4	3.5	3.5	7	4	1	-7777	-7777	0	486	545	635	789	0.0	0.1	19.1	2.3	24.4	0.7
4	64.6	34.5	49.5	4.7	3.0	3.4	56	40	23	7	1	-7777	220	264	337	471	0.0	0.7	25.4	0.2	11.7	0.0
5	73.9	46.7	60.3	3.7	2.7	2.9	208	166	112	47	13	6	44	63	102	192	0.1	1.9	30.7	0.0	1.0	0.0
6	84.0	56.8	70.4	4.0	2.9	3.2	464	406	321	193	95	66	2	4	9	31	0.9	7.9	30.0	0.0	0.0	0.0
7	90.0	62.3	76.2	3.4	1.9	2.3	655	594	501	348	206	156	0	-7777	-7777	3	3.4	16.2	31.0	0.0	0.0	0.0
8	88.5	60.1	74.3	3.9	2.4	2.9	598	536	444	295	162	119	-7777	-7777	1	7	2.3	14.0	31.0	0.0	0.0	0.0
9	80.7	49.1	64.9	4.1	2.8	3.0	318	268	199	107	45	29	21	31	53	110	0.5	6.4	29.8	0.0	0.8	0.0
10	68.1	36.0	52.1	4.1	2.6	2.6	76	53	30	9	2	1	167	207	276	410	0.0	0.8	28.3	0.1	10.0	0.0
11	52.7	23.6	38.2	5.6	3.5	4.1	5	3	1	-7777	0	0	510	568	656	805	0.0	0.0	17.1	2.2	24.5	0.4
12	41.4	14.1	27.7	6.2	4.9	5.4	0	0	0	0	0	0	845	907	1000	1155	0.0	0.0	8.9	7.4	30.6	3.4
Summary	65.3	36.4	50.9	4.7	3.3	3.6	2387	2070	1632	1006	524	377	3850	4262	4919	6118	7.2	48.0	270.2	26.5	160.8	10.9

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

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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: **MEDICINE CREEK DAM, NE US**

GHCND:USC00255388

Elev: 2388 ft. Lat: 40.376° N Lon: 100.223° 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	0.38	3.3	1.3	0.1	0.0	0.11	0.30	0.60
2	0.61	4.2	2.0	0.3	0.0	0.16	0.57	0.80
3	1.29	5.6	3.1	0.6	0.3	0.46	1.07	1.96
4	1.97	6.6	4.0	1.2	0.5	0.87	1.53	2.74
5	3.20	10.3	6.4	1.9	0.7	1.86	2.95	4.49
6	3.87	9.3	5.9	2.5	0.9	2.79	3.97	4.83
7	3.05	7.8	5.1	2.1	0.9	1.62	2.42	4.14
8	2.87	7.4	4.7	1.7	0.8	1.46	2.63	3.83
9	1.60	5.6	3.5	1.1	0.2	0.86	1.25	2.11
10	1.73	5.1	3.4	1.0	0.4	0.43	1.44	2.78
11	0.93	3.7	1.9	0.7	0.0	0.31	0.65	1.70
12	0.50	3.0	1.3	0.2	0.0	0.10	0.39	0.61
Summary	22.00	71.9	42.6	13.4	4.7	11.03	19.17	30.59

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Station: **MEDICINE CREEK DAM, NE US**

GHCND:USC00255388
Elev: 2388 ft. Lat: 40.376° N Lon: 100.223° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	31	125	313	630	912	1121	1063	747	390	101	11
45	2	9	61	200	477	762	965	908	599	262	51	2
50	-7777	2	23	114	333	612	810	753	455	155	18	-7777
55	-7777	-7777	7	56	208	464	655	598	318	76	5	0
60	0	0	1	23	112	321	501	444	199	30	1	0
Growing Degree Units for Corn (Monthly)												
50/86	35	51	130	233	390	581	724	683	475	290	108	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	45	170	483	1113	2025	3146	4209	4956	5346	5447	5458
45	2	11	72	272	749	1511	2476	3384	3983	4245	4296	4298
50	-7777	2	25	139	472	1084	1894	2647	3102	3257	3275	-7777
55	-7777	-7777	7	63	271	735	1390	1988	2306	2382	2387	2387
60	0	0	1	24	136	457	958	1402	1601	1631	1632	1632
Growing Degree Units for Corn (Monthly)												
50/86	35	86	216	449	839	1420	2144	2827	3302	3592	3700	3731

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: CRETE, NE US

GHCND:USC00252020
Elev: 1434 ft. Lat: 40.619° N Lon: 96.947° 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	15.2	25.8	6.8	5.5	6.0	-7777	0	0	0	0	0	904	966	1059	1214	0.0	0.0	5.0	11.3	29.6	3.8
2	41.6	18.6	30.1	7.1	5.6	6.1	1	-7777	-7777	0	0	0	698	753	837	977	0.0	0.0	8.4	7.6	24.9	2.5
3	52.4	28.1	40.3	5.2	3.5	3.9	13	8	4	1	-7777	-7777	470	528	616	768	0.0	0.0	17.8	2.2	20.4	0.4
4	64.1	39.6	51.8	4.8	3.0	3.7	83	62	38	14	4	2	178	216	282	409	0.0	0.3	25.8	-7777	6.7	0.0
5	74.0	51.9	62.9	3.5	2.9	2.9	267	219	154	71	25	15	21	34	63	135	0.0	0.9	30.9	0.0	0.2	0.0
6	83.6	61.8	72.7	3.4	2.7	2.9	531	472	384	245	129	91	-7777	1	3	14	0.2	5.4	30.0	0.0	0.0	0.0
7	88.3	66.7	77.5	2.8	2.2	2.2	697	635	542	388	241	186	0	0	-7777	1	0.9	12.3	31.0	0.0	0.0	0.0
8	86.2	63.9	75.1	4.0	2.6	3.2	621	559	467	317	180	134	-7777	-7777	-7777	5	0.8	9.5	31.0	0.0	0.0	0.0
9	79.1	54.4	66.7	3.4	2.5	2.7	366	313	238	133	58	39	14	20	36	80	0.1	2.8	29.9	0.0	0.2	0.0
10	67.3	41.9	54.6	3.5	2.6	2.7	112	84	51	18	4	2	125	158	219	340	0.0	0.3	29.1	0.1	4.9	0.0
11	51.6	28.9	40.3	6.0	4.4	4.9	13	8	4	1	-7777	0	456	511	596	743	0.0	0.0	16.7	2.1	18.7	0.1
12	37.8	17.6	27.7	6.4	6.1	6.0	-7777	0	0	0	0	0	846	908	1001	1156	0.0	0.0	5.6	9.9	28.8	2.5
Summary	63.5	40.7	52.1	4.7	3.6	3.9	2704	2360	1882	1188	641	469	3712	4095	4712	5842	2.0	31.5	261.2	33.2	134.4	9.3

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

Station: CRETE, NE US

GHCND:USC00252020

Elev: 1434 ft. Lat: 40.619° N Lon: 96.947° 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	3.9	1.7	0.2	0.0	0.20	0.47	0.96
2	0.64	4.1	2.0	0.3	-7777	0.24	0.63	0.94
3	1.88	6.1	3.6	1.3	0.4	0.87	1.51	2.59
4	2.61	7.9	5.1	1.7	0.6	2.05	2.45	2.98
5	4.75	11.6	7.5	3.2	1.4	2.55	4.22	5.94
6	4.38	10.1	6.3	3.2	1.5	3.26	4.31	5.77
7	3.71	9.5	5.8	2.5	1.0	2.40	2.92	4.87
8	3.47	9.3	5.5	2.3	0.8	2.02	3.09	4.78
9	3.25	8.3	4.9	2.4	0.9	1.97	3.34	4.06
10	2.04	7.1	4.1	1.3	0.4	0.90	1.53	2.98
11	1.29	4.8	2.2	0.8	0.2	0.68	0.89	1.52
12	0.88	5.3	2.0	0.5	0.1	0.30	0.69	0.95
Summary	29.46	88.0	50.7	19.7	7.3	17.44	26.05	38.34

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Station: CRETE, NE US

GHCND:USC00252020
 Elev: 1434 ft. Lat: 40.619° N Lon: 96.947° 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	12.0	7.3	4.1	0.6	0.5	3.8	7.2
2	4.7	2.7	1.7	0.7	0.2	0.0	8.8	5.9	2.7	0.3	2.0	3.6	8.2
3	4.4	1.3	1.1	0.5	0.3	-7777	3.2	1.7	1.0	0.1	0.0	1.1	8.0
4	0.6	0.3	0.2	0.1	0.0	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	-7777	-7777	0.0	0.0	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.1	0.1	-7777	-7777	-7777	0.3	0.1	0.1	0.1	0.0	0.0	0.0
11	2.2	1.3	0.9	0.3	0.1	-7777	2.4	1.0	0.4	0.1	0.0	0.6	2.0
12	5.6	2.8	1.8	0.7	0.2	0.0	10.4	6.7	3.9	0.9	2.3	3.6	6.0
Summary	22.8	11.0	7.2	2.8	1.0	0.0	37.4	22.8	12.3	2.1	4.8	12.7	31.4

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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: CRETE, NE US

GHCND:USC00252020
Elev: 1434 ft. Lat: 40.619° N Lon: 96.947° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	36	142	374	712	981	1162	1086	802	462	135	14
45	3	12	75	253	557	831	1007	931	653	325	73	4
50	-7777	3	34	155	406	681	852	776	506	206	33	1
55	-7777	1	13	83	267	531	697	621	366	112	13	-7777
60	0	-7777	4	38	154	384	542	467	238	51	4	0
Growing Degree Units for Corn (Monthly)												
50/86	16	36	109	235	434	657	791	730	516	291	94	15

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	49	191	565	1277	2258	3420	4506	5308	5770	5905	5919
45	3	15	90	343	900	1731	2738	3669	4322	4647	4720	4724
50	-7777	3	37	192	598	1279	2131	2907	3413	3619	3652	3653
55	-7777	1	14	97	364	895	1592	2213	2579	2691	2704	-7777
60	0	-7777	4	42	196	580	1122	1589	1827	1878	1882	1882
Growing Degree Units for Corn (Monthly)												
50/86	16	52	161	396	830	1487	2278	3008	3524	3815	3909	3924

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: **HASTINGS MUNICIPAL AIRPORT, NE US**

GHCND:USW00094949

Elev: 1962 ft. Lat: 40.600° N Lon: 98.426° 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	16.0	26.0	6.3	4.9	5.3	-7777	-7777	0	0	0	0	899	961	1054	1209	0.0	0.0	5.4	11.7	29.8	3.7
2	40.2	19.7	29.9	7.0	5.2	5.9	-7777	-7777	-7777	0	0	0	702	757	841	981	0.0	0.0	6.6	8.1	25.1	1.4
3	51.2	28.7	39.9	5.0	3.7	4.0	11	7	3	-7777	0	0	478	535	624	777	0.0	0.0	16.8	2.7	20.1	0.3
4	62.9	38.6	50.7	4.5	2.8	3.4	59	41	22	5	-7777	-7777	186	228	299	432	0.0	0.0	25.7	0.3	6.7	0.0
5	72.0	50.6	61.3	3.8	2.9	3.2	226	182	124	54	18	10	31	48	84	169	0.0	0.6	30.7	0.0	0.1	0.0
6	82.8	60.8	71.8	3.6	2.3	2.8	505	446	360	225	115	82	1	2	6	21	0.1	6.1	30.0	0.0	0.0	0.0
7	87.8	66.4	77.1	3.2	1.9	2.3	685	623	530	376	231	179	0	-7777	-7777	1	1.3	12.6	31.0	0.0	0.0	0.0
8	85.2	63.4	74.3	3.4	2.8	2.9	598	536	444	293	158	115	-7777	-7777	1	5	0.6	8.0	31.0	0.0	0.0	0.0
9	77.4	53.9	65.6	3.4	2.4	2.7	332	279	207	110	46	30	12	20	38	90	0.0	2.7	29.9	0.0	0.0	0.0
10	64.4	40.9	52.6	3.6	2.5	2.7	89	66	39	14	5	3	162	200	267	397	0.0	0.4	27.8	0.1	4.9	0.0
11	49.4	28.1	38.7	5.8	3.9	4.6	7	3	1	-7777	-7777	0	494	551	638	788	0.0	0.0	14.9	3.2	20.5	0.0
12	37.0	18.2	27.6	6.4	5.3	5.7	-7777	0	0	0	0	0	849	911	1004	1159	0.0	0.0	4.8	10.3	29.4	1.6
Summary	62.2	40.4	51.3	4.7	3.4	3.8	2512	2183	1730	1077	573	419	3814	4213	4856	6029	2.0	30.4	254.6	36.4	136.6	7.0

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www.ncdc.noaa.gov

Station: **HASTINGS MUNICIPAL AIRPORT, NE US**

GHCND:USW00094949

Elev: 1962 ft. Lat: 40.600° N Lon: 98.426° 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	0.41	@	@	@	@			
2	0.49	@	@	@	@			
3	1.79	@	@	@	@			
4	2.56	@	@	@	@			
5	4.57	@	@	@	@			
6	3.80	@	@	@	@			
7	3.74	@	@	@	@			
8	3.30	@	@	@	@			
9	2.56	@	@	@	@			
10	1.99	@	@	@	@			
11	1.29	@	@	@	@			
12	0.61	@	@	@	@			
Summary	27.11	9999	9999	9999	9999	9999	9999	9999

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Station: **HASTINGS MUNICIPAL AIRPORT, NE US**

GHCND:USW00094949
Elev: 1962 ft. Lat: 40.600° N Lon: 98.426° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	28	132	342	660	954	1150	1063	770	407	111	12
45	3	10	69	221	506	804	995	908	620	276	57	3
50	-7777	3	30	124	358	654	840	753	472	167	24	-7777
55	-7777	-7777	11	59	226	505	685	598	332	89	7	-7777
60	0	-7777	3	22	124	360	530	444	207	39	1	0
Growing Degree Units for Corn (Monthly)												
50/86	17	27	99	211	390	627	778	714	481	248	80	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	14	42	174	516	1176	2130	3280	4343	5113	5520	5631	5643
45	3	13	82	303	809	1613	2608	3516	4136	4412	4469	4472
50	-7777	3	33	157	515	1169	2009	2762	3234	3401	3425	-7777
55	-7777	-7777	11	70	296	801	1486	2084	2416	2505	2512	-7777
60	0	-7777	3	25	149	509	1039	1483	1690	1729	1730	1730
Growing Degree Units for Corn (Monthly)												
50/86	17	44	143	354	744	1371	2149	2863	3344	3592	3672	3685

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **CAMBRIDGE, NE US**

GHCND:USC00251415

Elev: 2238 ft. Lat: 40.285° N Lon: 100.143° 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	40.6	11.3	26.0	6.5	4.5	5.2	0	0	0	0	0	0	900	962	1055	1210	0.0	0.0	8.9	8.8	31.0	4.3
2	44.5	15.2	29.9	6.7	4.7	5.3	-7777	-7777	0	0	0	0	704	760	844	984	0.0	0.0	10.5	5.8	27.5	2.7
3	54.2	24.7	39.5	4.5	3.5	3.6	6	3	1	-7777	0	0	488	547	638	792	0.0	-7777	19.2	1.9	24.7	0.6
4	64.7	34.8	49.7	4.6	2.6	3.2	55	39	22	6	1	-7777	212	256	329	464	0.0	0.5	25.7	0.2	11.6	0.0
5	73.6	46.0	59.8	3.5	2.4	2.5	194	153	100	40	9	5	45	66	107	201	-7777	1.4	30.7	0.0	1.5	0.0
6	83.8	56.8	70.3	3.8	3.0	3.1	462	403	319	191	92	63	3	4	10	32	0.7	6.9	30.0	0.0	0.0	0.0
7	89.3	62.2	75.8	3.1	2.1	2.2	643	581	488	336	196	146	0	-7777	-7777	3	2.0	15.3	31.0	0.0	0.0	0.0
8	87.5	60.3	73.9	3.9	2.3	2.8	586	524	432	285	154	112	-7777	-7777	2	9	1.8	12.6	31.0	0.0	0.0	0.0
9	79.9	49.3	64.6	3.7	2.7	2.7	310	260	193	104	45	28	22	32	55	116	0.3	5.8	29.8	0.0	0.7	0.0
10	67.3	34.9	51.1	3.8	2.5	2.4	62	43	23	6	2	1	183	226	299	437	0.0	0.6	28.3	0.2	11.5	0.0
11	52.6	22.7	37.7	6.1	3.4	4.2	3	1	-7777	-7777	0	0	524	582	671	821	0.0	-7777	17.4	2.4	25.9	0.5
12	40.6	12.5	26.5	6.4	4.9	5.4	0	0	0	0	0	0	882	944	1037	1192	0.0	0.0	8.1	7.8	30.9	3.9
Summary	64.9	35.9	50.4	4.7	3.2	3.6	2321	2007	1578	968	499	355	3963	4379	5047	6261	4.8	43.1	270.6	27.1	165.3	12.0

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

Station: **CAMBRIDGE, NE US**

GHCND:USC00251415

Elev: 2238 ft. Lat: 40.285° N Lon: 100.143° 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	0.44	2.8	1.4	0.2	0.1	0.11	0.27	0.74
2	0.55	3.3	1.8	0.2	0.0	0.19	0.53	0.73
3	1.42	4.5	3.0	0.8	0.3	0.49	1.35	2.51
4	2.12	5.7	4.1	1.1	0.5	1.02	1.64	3.01
5	3.41	9.4	6.6	2.2	0.8	2.17	2.99	4.38
6	3.62	8.3	6.0	2.3	1.0	2.50	3.63	4.51
7	3.29	7.3	5.4	2.2	0.8	1.61	2.75	4.96
8	2.72	6.4	4.8	2.1	0.8	1.45	2.32	3.82
9	1.61	4.8	3.1	1.2	0.3	0.58	1.76	2.55
10	1.72	5.1	3.2	1.2	0.4	0.53	1.28	2.44
11	0.99	3.5	2.2	0.8	0.1	0.45	0.72	1.33
12	0.60	3.0	1.5	0.3	0.1	0.04	0.41	0.79
Summary	22.49	64.1	43.1	14.6	5.2	11.14	19.65	31.77

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Station: **CAMBRIDGE, NE US**

GHCND:USC00251415
 Elev: 2238 ft. Lat: 40.285° N Lon: 100.143° 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	2.3	1.7	0.5	0.3	-7777	12.1	7.8	5.3	2.5	1.0	3.4	8.0
2	5.2	2.5	1.9	0.6	0.2	-7777	9.8	4.9	2.8	0.4	2.0	4.3	7.5
3	4.1	1.7	1.4	0.6	0.1	-7777	3.1	1.3	0.6	0.1	0.2	3.0	6.0
4	1.8	0.8	0.7	0.2	0.1	0.0	0.8	0.3	-7777	0.0	0.0	0.0	3.0
5	-7777	-7777	-7777	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	0.2	-7777	-7777	-7777	-7777	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.4	0.2	0.1	-7777	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
11	3.5	1.5	1.2	0.4	0.2	-7777	2.5	0.9	0.5	0.2	0.0	2.1	5.0
12	6.1	2.6	1.9	0.8	0.2	-7777	9.2	5.6	3.2	1.2	0.5	4.7	10.0
Summary	26.8	11.8	9.0	3.2	1.1	0.0	37.8	20.9	12.4	4.4	3.7	17.5	39.5

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Station: **CAMBRIDGE, NE US**

GHCND:USC00251415
Elev: 2238 ft. Lat: 40.285° N Lon: 100.143° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	26	121	314	614	909	1108	1051	738	362	90	7
45	1	7	57	200	462	759	953	896	590	237	42	1
50	-7777	1	21	114	319	609	798	741	446	135	15	-7777
55	0	-7777	6	55	194	462	643	586	310	62	3	0
60	0	0	1	22	100	319	488	432	193	23	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	33	52	128	234	383	583	721	680	472	279	107	28

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	35	156	470	1084	1993	3101	4152	4890	5252	5342	5349
45	1	8	65	265	727	1486	2439	3335	3925	4162	4204	4205
50	-7777	1	22	136	455	1064	1862	2603	3049	3184	3199	-7777
55	0	-7777	6	61	255	717	1360	1946	2256	2318	2321	2321
60	0	0	1	23	123	442	930	1362	1555	1578	-7777	1578
Growing Degree Units for Corn (Monthly)												
50/86	33	85	213	447	830	1413	2134	2814	3286	3565	3672	3700

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: **MALCOLM, NE US**

GHCND:USC00255105

Elev: 1309 ft. Lat: 40.908° N Lon: 96.865° 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	0.68	4.5	2.3	0.3	0.0	0.38	0.60	1.05
2	0.68	4.8	2.0	0.3	-7777	0.33	0.58	0.89
3	2.01	7.4	4.3	1.4	0.3	1.11	1.79	2.67
4	2.69	8.6	5.7	1.9	0.5	1.97	2.57	3.51
5	4.59	11.0	7.6	3.0	1.2	2.61	4.23	5.25
6	4.37	9.6	6.6	2.6	1.4	3.04	4.22	5.76
7	3.47	7.9	5.5	2.1	0.9	1.43	3.35	4.22
8	3.60	8.3	5.7	2.5	1.0	1.80	3.00	5.15
9	2.80	6.6	4.6	1.8	0.8	1.39	2.87	3.48
10	2.07	6.1	4.0	1.3	0.5	0.90	1.77	2.45
11	1.53	4.9	3.1	1.2	0.4	0.80	1.31	2.24
12	0.94	5.5	2.3	0.4	0.1	0.41	0.72	1.26
Summary	29.43	85.2	53.7	18.8	7.1	16.17	27.01	37.93

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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: **MALCOLM, NE US**

GHCND:USC00255105
 Elev: 1309 ft. Lat: 40.908° N Lon: 96.865° 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	6.0	3.1	2.2	0.9	0.2	0.0	11.4	7.2	4.3	0.6	2.0	4.9	8.5
2	6.2	3.1	2.2	0.8	0.2	0.0	9.3	5.2	2.7	0.4	1.7	6.0	9.5
3	4.5	1.7	1.4	0.6	0.3	0.0	3.3	1.8	1.2	0.3	0.0	2.1	7.5
4	0.9	0.4	0.3	0.2	-7777	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.5
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	-7777	0.0	0.3	0.2	0.1	0.0	0.0	0.0	0.0
11	1.6	1.2	0.8	0.1	0.1	0.0	0.7	0.1	0.0	0.0	0.0	0.8	2.5
12	5.5	3.2	2.1	0.6	0.3	-7777	8.9	4.2	2.5	0.7	1.8	5.5	8.0
Summary	25.1	12.8	9.1	3.3	1.1	0.0	34.2	18.9	10.9	2.0	5.5	19.3	36.5

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

Station: WESTON 3 NW, NE US

GHCND:USC00259193
 Elev: 1335 ft. Lat: 41.221° N Lon: 96.778° 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	32.6	12.3	22.4				-7777	-7777	0	0	0	0	1009	1071	1164	1319	0.0	0.0	2.5	14.3	30.7	6.7
2	36.7	16.4	26.6				-7777	-7777	0	0	0	0	796	852	936	1076	0.0	0.0	5.2	10.5	26.5	2.2
3	48.8	26.1	37.5				9	5	1	-7777	0	0	553	611	700	854	0.0	0.0	14.8	2.9	24.0	0.6
4	62.5	37.3	49.9				53	38	20	5	1	-7777	206	251	323	458	0.0	0.0	26.1	0.0	7.4	0.0
5	72.9	49.2	61.1				223	176	116	45	11	6	35	51	83	168	0.0	0.7	30.7	0.0	0.3	0.0
6	82.6	58.6	70.6				468	408	320	184	78	49	-7777	1	3	16	0.0	3.6	30.0	0.0	0.0	0.0
7	86.2	63.0	74.6				607	545	453	301	162	115	0	0	-7777	4	0.4	7.9	31.0	0.0	0.0	0.0
8	83.9	60.7	72.3				536	474	383	238	116	78	-7777	-7777	2	12	0.0	5.1	31.0	0.0	0.0	0.0
9	76.6	51.5	64.1				288	237	169	80	30	18	16	26	47	109	0.0	2.0	30.0	0.0	0.0	0.0
10	64.8	39.0	51.9				77	56	33	12	3	2	174	215	284	419	0.0	0.3	28.6	0.0	7.5	0.0
11	48.2	26.5	37.4				3	2	1	-7777	0	0	533	591	680	829	0.0	0.0	13.1	2.2	22.6	0.0
12	34.2	15.4	24.8				-7777	0	0	0	0	0	935	997	1091	1246	0.0	0.0	3.7	13.4	29.4	2.9
Summary	60.8	38.0	49.4	9999	9999	9999	2264	1941	1496	865	401	268	4257	4666	5313	6510	0.4	19.6	246.7	43.3	148.4	12.4

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www.ncdc.noaa.gov

Station: **WESTON 3 NW, NE US**

GHCND:USC00259193

Elev: 1335 ft. Lat: 41.221° N Lon: 96.778° 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	0.68	@	@	@	@			
2	0.76	@	@	@	@			
3	1.95	@	@	@	@			
4	3.14	@	@	@	@			
5	4.44	@	@	@	@			
6	4.63	@	@	@	@			
7	3.75	@	@	@	@			
8	4.09	@	@	@	@			
9	2.84	@	@	@	@			
10	2.12	@	@	@	@			
11	1.55	@	@	@	@			
12	0.84	@	@	@	@			
Summary	30.79	9999	9999	9999	9999	9999	9999	9999

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Station: **WESTON 3 NW, NE US**

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Elev: 1335 ft. Lat: 41.221° N Lon: 96.778° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	15	91	319	652	918	1072	1001	721	379	76	8
45	3	5	47	201	499	768	917	846	572	252	34	1
50	1	-7777	23	111	353	618	762	691	425	149	12	-7777
55	-7777	-7777	9	53	223	468	607	536	288	77	3	-7777
60	0	0	1	20	116	320	453	383	169	33	1	0
Growing Degree Units for Corn (Monthly)												
50/86	10	18	75	203	390	604	724	669	450	243	58	8

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	22	113	432	1084	2002	3074	4075	4796	5175	5251	5259
45	3	8	55	256	755	1523	2440	3286	3858	4110	4144	4145
50	1	-7777	24	135	488	1106	1868	2559	2984	3133	3145	-7777
55	-7777	-7777	9	62	285	753	1360	1896	2184	2261	2264	-7777
60	0	0	1	21	137	457	910	1293	1462	1495	1496	1496
Growing Degree Units for Corn (Monthly)												
50/86	10	28	103	306	696	1300	2024	2693	3143	3386	3444	3452

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: **WEEPING WATER, NE US**

GHCND:USC00259090

Elev: 1099 ft. Lat: 40.864° N Lon: 96.141° 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	34.4	13.8	24.1	6.4	5.4	5.7	0	0	0	0	0	0	958	1020	1113	1268	0.0	0.0	3.7	12.6	30.3	4.5
2	39.3	17.9	28.6	6.4	5.6	5.8	1	-7777	-7777	-7777	0	0	740	795	879	1019	0.0	0.0	6.3	8.5	25.2	2.7
3	51.3	28.4	39.8	4.8	3.5	3.8	14	9	5	1	-7777	-7777	484	541	629	780	0.0	0.0	16.4	2.2	20.1	0.3
4	63.7	39.8	51.7	4.3	3.0	3.5	79	59	36	14	3	2	176	216	284	411	0.0	0.4	25.7	0.0	6.6	0.0
5	73.2	50.9	62.0	3.2	3.1	2.9	244	197	136	59	18	10	25	40	72	150	0.0	0.5	30.9	0.0	0.4	0.0
6	82.1	60.8	71.4	2.6	2.6	2.4	494	434	347	211	102	69	-7777	1	4	18	-7777	3.5	30.0	0.0	0.0	0.0
7	85.9	65.6	75.7	3.2	2.1	2.4	643	581	488	335	192	143	0	0	-7777	2	0.7	8.4	31.0	0.0	0.0	0.0
8	83.5	63.4	73.5	3.9	2.9	3.2	572	510	418	271	143	103	-7777	-7777	1	9	0.4	5.8	31.0	0.0	0.0	0.0
9	76.4	53.6	65.0	3.5	2.4	2.7	317	266	196	104	44	28	17	26	47	104	0.1	1.8	29.9	0.0	0.3	0.0
10	64.6	41.2	52.9	3.7	2.7	2.7	86	63	36	13	3	2	151	190	257	388	0.0	-7777	27.9	-7777	5.6	0.0
11	49.5	27.9	38.7	5.9	4.0	4.7	8	5	2	-7777	0	0	497	554	641	789	0.0	0.0	14.7	2.5	20.6	0.1
12	36.1	16.7	26.4	6.2	5.7	5.8	-7777	-7777	-7777	0	0	0	886	948	1041	1196	0.0	0.0	4.0	11.0	29.0	3.0
Summary	61.7	40.0	50.8	4.5	3.6	3.8	2458	2124	1664	1008	505	357	3934	4331	4968	6134	1.2	20.4	251.5	36.8	138.1	10.6

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

Station: **WEEPING WATER, NE US**

GHCND:USC00259090

Elev: 1099 ft. Lat: 40.864° N Lon: 96.141° 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	0.83	4.6	2.2	0.4	-7777	0.47	0.74	1.24
2	0.97	5.3	2.6	0.4	0.1	0.45	0.84	1.30
3	2.22	7.5	4.5	1.4	0.6	0.95	2.09	3.11
4	3.23	8.7	6.0	2.2	0.7	2.09	2.82	4.31
5	5.16	11.2	7.8	3.4	1.6	3.25	4.06	7.24
6	5.15	9.2	6.7	3.1	1.3	2.82	3.92	6.83
7	4.39	7.8	5.6	2.8	1.1	1.97	3.46	5.15
8	3.79	7.9	5.6	2.7	1.0	1.48	3.45	4.26
9	3.05	6.4	4.6	2.0	0.7	1.49	2.54	4.07
10	2.51	6.9	5.0	1.8	0.6	1.33	1.69	3.43
11	1.62	5.6	3.3	1.1	0.3	0.97	1.58	2.00
12	1.14	5.8	2.9	0.5	0.2	0.47	0.87	1.29
Summary	34.06	86.9	56.8	21.8	8.2	17.74	28.06	44.23

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Station: **WEEPING WATER, NE US**

GHCND:USC00259090

Elev: 1099 ft. Lat: 40.864° N Lon: 96.141° 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	7.0	2.9	2.5	1.1	0.4	0.1	11.4	9.2	6.2	2.1	0.0	6.1	12.4
2	7.3	3.1	2.5	1.1	0.4	0.0	10.1	6.8	4.0	1.3	2.0	7.3	11.8
3	3.6	1.2	1.1	0.4	0.2	0.1	2.7	1.7	1.2	0.5	0.0	1.7	6.0
4	1.1	0.2	0.2	0.1	0.1	-7777	0.2	0.2	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	0.7	0.1	0.1	0.1	-7777	-7777	0.3	0.2	0.1	-7777	0.0	0.0	0.0
11	1.5	0.7	0.6	0.2	0.1	0.0	0.9	0.2	-7777	0.0	0.0	0.0	2.0
12	6.9	2.3	1.7	0.9	0.3	0.1	7.0	4.6	2.7	0.9	3.5	6.0	9.0
Summary	28.1	10.5	8.7	3.9	1.5	0.3	32.6	22.9	14.4	4.9	5.5	21.1	41.2

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

Station: **WEEPING WATER, NE US**

GHCND:USC00259090

Elev: 1099 ft. Lat: 40.864° N Lon: 96.141° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	25	130	368	684	943	1108	1037	750	411	107	9
45	1	9	69	246	529	793	953	882	601	278	55	2
50	-7777	2	33	148	379	643	798	727	455	167	24	-7777
55	0	1	14	79	244	494	643	572	317	86	8	-7777
60	0	-7777	5	36	136	347	488	418	196	36	2	-7777
Growing Degree Units for Corn (Monthly)												
50/86	12	26	99	228	415	629	756	699	474	250	77	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	32	162	530	1214	2157	3265	4302	5052	5463	5570	5579
45	1	10	79	325	854	1647	2600	3482	4083	4361	4416	4418
50	-7777	2	35	183	562	1205	2003	2730	3185	3352	3376	-7777
55	0	1	15	94	338	832	1475	2047	2364	2450	2458	-7777
60	0	-7777	5	41	177	524	1012	1430	1626	1662	1664	-7777
Growing Degree Units for Corn (Monthly)												
50/86	12	38	137	365	780	1409	2165	2864	3338	3588	3665	3676

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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

Station: **PAPILLION, NE US**

GHCND:USC00256534

Elev: 1050 ft. Lat: 41.152° N Lon: 96.049° 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	@	@	@	@			
2	0.95	@	@	@	@			
3	2.07	@	@	@	@			
4	3.29	@	@	@	@			
5	4.79	@	@	@	@			
6	5.15	@	@	@	@			
7	4.02	@	@	@	@			
8	3.79	@	@	@	@			
9	2.88	@	@	@	@			
10	2.19	@	@	@	@			
11	1.59	@	@	@	@			
12	1.02	@	@	@	@			
Summary	32.56	9999	9999	9999	9999	9999	9999	9999

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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: **ARTHUR, NE US**

GHCND:USC00250365
Elev: 3501 ft. Lat: 41.570° N Lon: 101.691° 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	12.9	25.4	5.6	4.5	4.8	0	0	0	0	0	0	918	980	1073	1228	0.0	0.0	5.9	9.7	30.5	4.4
2	41.8	16.0	28.9	6.2	5.2	5.5	-7777	-7777	0	0	0	0	731	787	871	1011	0.0	0.0	8.8	7.1	27.2	3.1
3	50.6	24.1	37.3	4.1	3.2	3.4	4	2	-7777	-7777	0	0	551	611	703	857	0.0	0.0	16.9	3.7	25.4	0.6
4	60.7	33.3	47.0	4.2	2.5	3.1	38	26	13	3	-7777	-7777	278	326	403	543	0.0	0.2	23.3	0.4	12.7	0.0
5	70.8	44.3	57.6	3.7	2.2	2.7	155	119	74	26	5	2	76	102	150	257	0.0	0.8	30.0	0.0	1.7	0.0
6	80.8	53.6	67.2	3.7	2.5	2.9	373	317	239	127	51	31	7	11	23	61	0.3	4.8	29.9	0.0	0.0	0.0
7	88.0	59.6	73.8	2.9	2.1	2.3	583	521	429	280	149	106	-7777	1	2	8	1.2	13.2	31.0	0.0	0.0	0.0
8	86.1	58.2	72.1	3.0	2.3	2.5	532	471	381	237	114	76	1	2	5	16	0.5	10.4	31.0	0.0	0.0	0.0
9	76.7	47.5	62.1	3.7	2.4	2.8	253	208	148	71	24	13	40	55	85	158	-7777	3.5	29.4	-7777	1.0	0.0
10	63.1	33.9	48.5	3.8	2.4	2.8	41	27	13	2	-7777	-7777	243	291	369	514	0.0	0.2	25.5	0.4	12.2	-7777
11	48.8	22.8	35.8	5.8	3.6	4.5	3	1	-7777	0	0	0	579	637	726	876	0.0	0.0	14.2	4.2	25.5	0.8
12	38.1	13.3	25.7	6.0	5.1	5.4	0	0	0	0	0	0	908	970	1063	1218	0.0	0.0	6.0	9.3	30.7	3.8
Summary	62.0	35.0	48.5	4.4	3.2	3.6	1982	1692	1297	746	343	228	4332	4773	5473	6747	2.0	33.1	251.9	34.8	166.9	12.7

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www.ncdc.noaa.gov

Station: **ARTHUR, NE US**

GHCND:USC00250365
Elev: 3501 ft. Lat: 41.570° N Lon: 101.691° 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	0.34	2.3	1.2	0.1	-7777	0.09	0.31	0.49
2	0.43	2.7	1.7	0.1	-7777	0.13	0.30	0.49
3	1.06	4.2	3.0	0.4	0.1	0.46	0.92	1.35
4	2.05	6.3	4.9	1.3	0.4	1.00	1.72	2.99
5	3.17	9.0	6.5	2.2	0.7	1.90	2.82	4.46
6	2.83	8.9	6.4	2.0	0.5	1.74	2.70	3.40
7	3.41	8.0	6.1	2.4	1.0	2.00	3.17	4.67
8	2.05	6.3	4.6	1.5	0.4	1.38	1.87	2.95
9	1.84	5.9	4.0	1.2	0.4	1.17	1.46	2.88
10	1.31	4.9	3.2	0.6	0.2	0.68	1.15	1.79
11	0.56	2.7	1.7	0.2	0.1	0.17	0.44	0.80
12	0.33	2.3	1.2	0.1	0.0	0.04	0.13	0.50
Summary	19.38	63.5	44.5	12.1	3.8	10.76	16.99	26.77

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Station: **ARTHUR, NE US**

GHCND:USC00250365
Elev: 3501 ft. Lat: 41.570° N Lon: 101.691° 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	2.3	2.1	0.5	0.2	-7777	13.0	7.8	4.8	1.0	1.0	3.8	6.0
2	5.0	2.5	2.2	0.7	0.2	0.0	8.7	4.9	2.6	0.5	1.3	4.0	6.0
3	6.2	3.2	3.0	0.7	0.2	-7777	6.0	3.3	1.5	0.1	2.0	6.0	10.0
4	4.7	1.7	1.7	0.6	0.3	0.1	2.0	1.1	0.5	0.1	1.0	3.0	8.0
5	0.2	0.1	0.1	-7777	0.0	0.0	0.1	-7777	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	0.3	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
10	1.8	0.7	0.7	0.2	0.1	0.0	1.1	0.5	0.3	0.0	0.0	0.0	2.5
11	4.2	1.7	1.7	0.6	0.1	0.0	4.8	2.6	1.1	0.3	1.0	3.0	5.0
12	4.7	2.5	2.3	0.5	0.2	0.0	11.2	6.5	3.7	0.8	2.0	4.0	7.0
Summary	31.4	14.8	13.9	3.9	1.3	0.1	47.0	26.8	14.5	2.8	8.3	23.8	44.5

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Station: **ARTHUR, NE US**

GHCND:USC00250365
Elev: 3501 ft. Lat: 41.570° N Lon: 101.691° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	22	96	257	546	816	1047	996	665	302	80	10
45	1	5	43	158	399	666	892	841	519	188	37	2
50	-7777	1	16	85	265	518	737	686	379	99	12	-7777
55	0	-7777	4	38	155	373	583	532	253	41	3	0
60	0	0	-7777	13	74	239	429	381	148	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	33	96	188	335	512	674	642	420	224	80	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	10	32	128	385	931	1747	2794	3790	4455	4757	4837	4847
45	1	6	49	207	606	1272	2164	3005	3524	3712	3749	3751
50	-7777	1	17	102	367	885	1622	2308	2687	2786	2798	-7777
55	0	-7777	4	42	197	570	1153	1685	1938	1979	1982	1982
60	0	0	-7777	13	87	326	755	1136	1284	1297	-7777	1297
Growing Degree Units for Corn (Monthly)												
50/86	19	52	148	336	671	1183	1857	2499	2919	3143	3223	3243

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **HASTINGS 4 N, NE US**

GHCND:USC00253660

Elev: 1939 ft. Lat: 40.647° N Lon: 98.384° 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	35.7	14.2	24.9	6.5	5.0	5.5	0	0	0	0	0	0	931	993	1086	1241	0.0	0.0	4.7	12.1	30.3	4.0
2	40.0	18.1	29.0	7.0	5.2	5.9	-7777	-7777	-7777	0	0	0	727	783	866	1006	0.0	0.0	7.2	8.1	25.4	2.5
3	51.0	27.1	39.1	4.8	3.8	3.9	9	6	2	-7777	-7777	-7777	504	562	652	805	0.0	-7777	16.4	2.9	21.9	0.5
4	63.0	37.2	50.1	4.4	3.0	3.4	63	46	27	9	2	1	210	253	324	456	0.0	0.5	25.1	0.2	8.4	0.0
5	72.7	48.9	60.8	3.6	2.5	2.9	218	174	117	48	13	7	38	56	92	179	0.0	0.9	30.8	0.0	0.3	0.0
6	82.9	58.7	70.8	3.7	2.4	2.9	475	416	331	198	96	66	1	2	7	24	0.4	6.0	30.0	0.0	0.0	0.0
7	87.3	63.5	75.4	3.1	2.2	2.4	632	570	477	326	186	138	0	-7777	-7777	3	1.1	11.5	31.0	0.0	0.0	0.0
8	85.2	61.5	73.4	3.4	2.5	2.8	569	507	415	268	140	99	-7777	-7777	2	9	0.6	8.5	31.0	0.0	0.0	0.0
9	77.7	51.7	64.7	3.5	2.5	2.8	311	261	193	101	41	26	20	30	52	110	0.0	3.3	29.8	0.0	0.3	0.0
10	64.4	39.5	52.0	3.7	2.5	2.7	76	54	31	10	2	1	171	211	280	414	0.0	0.2	27.5	0.2	6.0	0.0
11	49.0	26.6	37.8	6.0	3.7	4.5	6	4	1	-7777	0	0	522	580	667	816	0.0	0.0	14.5	3.2	21.5	0.1
12	36.5	16.1	26.3	6.6	5.5	5.9	0	0	0	0	0	0	889	951	1044	1199	0.0	0.0	4.7	11.0	30.3	3.2
Summary	62.1	38.6	50.4	4.7	3.4	3.8	2359	2038	1594	960	480	338	4013	4421	5072	6262	2.1	30.9	252.7	37.7	144.4	10.3

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www.ncdc.noaa.gov

Station: **HASTINGS 4 N, NE US**

GHCND:USC00253660

Elev: 1939 ft. Lat: 40.647° N Lon: 98.384° 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	0.58	4.8	2.0	0.2	0.0	0.26	0.55	0.74
2	0.77	4.8	2.3	0.4	-7777	0.28	0.69	1.28
3	1.90	7.1	3.9	1.3	0.3	0.69	1.65	2.63
4	2.73	9.2	5.0	1.7	0.8	1.78	2.48	3.89
5	4.61	11.7	8.0	3.2	1.2	2.96	5.00	6.04
6	3.63	10.4	6.2	2.2	1.2	2.09	3.59	5.06
7	3.79	9.0	5.8	2.5	1.0	1.90	3.06	5.44
8	3.29	9.0	5.7	2.1	0.8	1.96	2.89	4.00
9	2.71	7.1	4.3	1.7	0.8	1.49	2.21	3.29
10	1.90	6.8	3.9	1.2	0.5	0.97	1.47	2.60
11	1.32	5.6	2.7	0.8	0.3	0.30	0.92	2.02
12	0.76	4.8	1.8	0.4	0.1	0.24	0.63	1.02
Summary	27.99	90.3	51.6	17.7	7.0	14.92	25.14	38.01

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Station: **HASTINGS 4 N, NE US**

GHCND:USC00253660
 Elev: 1939 ft. Lat: 40.647° N Lon: 98.384° 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	6.0	4.0	2.2	0.6	0.3	0.0	12.5	7.6	4.1	0.9	2.8	5.1	9.5
2	6.5	3.7	2.0	0.7	0.3	-7777	9.9	5.7	3.1	0.4	2.3	5.7	10.4
3	5.2	2.1	1.2	0.5	0.3	0.1	3.2	1.9	1.3	0.5	0.8	2.0	4.2
4	1.2	0.7	0.3	0.1	0.1	0.0	0.6	0.2	0.1	0.0	0.0	0.0	1.1
5	-7777	-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	0.2	-7777	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.4	0.2	0.1	0.1	-7777	0.3	0.2	0.1	0.1	0.0	0.0	0.0
11	2.6	2.0	0.9	0.3	0.1	-7777	3.0	1.1	0.5	0.1	0.3	2.2	4.0
12	6.1	3.9	2.0	0.6	0.2	-7777	9.5	5.4	3.7	1.6	2.0	5.0	9.3
Summary	28.8	16.8	8.8	2.9	1.4	0.1	39.0	22.1	12.9	3.6	8.2	20.0	38.5

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1981-2010**

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Station: **HASTINGS 4 N, NE US**

GHCND:USC00253660

Elev: 1939 ft. Lat: 40.647° N Lon: 98.384° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	29	123	326	645	924	1097	1034	741	387	100	10
45	3	9	63	211	492	774	942	879	593	258	51	2
50	-7777	2	27	123	346	624	787	724	447	152	21	-7777
55	0	-7777	9	63	218	475	632	569	311	76	6	0
60	0	-7777	2	27	117	331	477	415	193	31	1	0
Growing Degree Units for Corn (Monthly)												
50/86	16	31	100	214	386	599	730	684	465	242	76	14

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	13	42	165	491	1136	2060	3157	4191	4932	5319	5419	5429
45	3	12	75	286	778	1552	2494	3373	3966	4224	4275	4277
50	-7777	2	29	152	498	1122	1909	2633	3080	3232	3253	-7777
55	0	-7777	9	72	290	765	1397	1966	2277	2353	2359	2359
60	0	-7777	2	29	146	477	954	1369	1562	1593	1594	1594
Growing Degree Units for Corn (Monthly)												
50/86	16	47	147	361	747	1346	2076	2760	3225	3467	3543	3557

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: **WAKEFIELD, NE US**

GHCND:USC00258915

Elev: 1391 ft. Lat: 42.265° N Lon: 96.867° 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	32.5	11.3	21.9	7.1	5.6	6.2	0	0	0	0	0	0	1026	1088	1181	1336	0.0	0.0	3.3	14.3	30.5	6.5
2	37.5	16.2	26.8	7.1	6.0	6.3	-7777	-7777	-7777	0	0	0	788	844	928	1068	0.0	0.0	5.6	9.9	26.0	3.6
3	49.6	25.6	37.6	5.6	3.5	4.1	7	4	2	-7777	-7777	-7777	547	606	696	850	0.0	0.0	15.0	3.1	23.1	0.6
4	63.7	36.6	50.2	4.9	3.0	3.7	66	49	30	12	3	1	211	254	326	457	0.0	0.6	25.8	0.1	9.6	0.0
5	73.9	47.8	60.8	3.6	3.2	3.2	220	176	119	52	17	9	39	57	93	180	0.0	1.6	30.9	0.0	1.0	0.0
6	82.8	58.0	70.4	3.4	2.5	2.8	463	405	319	188	87	58	1	3	7	26	0.3	4.7	30.0	0.0	0.0	0.0
7	86.3	62.0	74.1	3.5	2.4	2.8	594	532	439	288	153	108	0	-7777	-7777	5	0.4	8.7	31.0	0.0	0.0	0.0
8	84.5	60.4	72.5	3.4	2.5	2.8	541	479	388	242	120	82	-7777	-7777	2	11	0.3	6.0	31.0	0.0	0.0	0.0
9	77.6	50.8	64.2	3.7	2.4	2.7	298	248	181	92	36	21	22	32	55	116	0.0	2.2	29.8	0.0	0.7	0.0
10	64.8	38.8	51.8	3.7	2.5	2.6	75	54	32	10	3	1	174	216	286	419	0.0	0.3	27.6	0.2	7.7	0.0
11	47.1	25.6	36.4	6.5	4.1	5.0	5	2	1	-7777	0	0	564	622	710	860	0.0	0.0	12.6	4.0	22.1	0.4
12	33.4	13.9	23.6	7.0	6.1	6.4	0	0	0	0	0	0	972	1034	1127	1282	0.0	0.0	2.6	13.0	30.0	4.7
Summary	61.1	37.3	49.2	5.0	3.7	4.1	2269	1949	1511	884	419	280	4344	4756	5411	6610	1.0	24.1	245.2	44.6	150.7	15.8

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www.ncdc.noaa.gov

Station: **WAKEFIELD, NE US**

GHCND:USC00258915

Elev: 1391 ft. Lat: 42.265° N Lon: 96.867° 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	0.75	5.3	2.4	0.2	-7777	0.44	0.67	0.96
2	0.87	5.3	2.6	0.3	0.1	0.46	0.64	1.16
3	2.18	7.7	4.4	1.5	0.4	0.88	1.87	3.09
4	3.42	9.8	6.4	2.3	0.9	2.17	2.85	4.64
5	3.93	11.0	7.7	2.6	0.9	2.58	3.82	5.25
6	4.76	10.3	7.1	3.3	1.3	3.07	4.57	6.55
7	3.27	9.5	5.8	2.0	0.8	1.98	2.80	3.94
8	3.07	8.6	5.1	1.8	0.9	1.29	2.78	3.99
9	3.06	8.0	4.8	2.0	0.9	1.87	2.87	4.12
10	2.50	7.8	4.5	1.6	0.7	1.08	1.93	3.26
11	1.66	5.9	3.4	1.2	0.3	0.78	1.45	2.65
12	1.00	6.0	2.9	0.4	0.1	0.36	0.77	1.17
Summary	30.47	95.2	57.1	19.2	7.3	16.96	27.02	40.78

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Station: **WAKEFIELD, NE US**

GHCND:USC00258915
 Elev: 1391 ft. Lat: 42.265° N Lon: 96.867° 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	5.1	2.3	0.8	0.3	-7777	17.5	13.1	7.9	1.6	4.4	6.9	10.2
2	6.9	4.3	2.1	0.6	0.2	0.1	12.2	8.8	6.6	2.4	3.1	5.3	9.0
3	6.4	3.2	1.7	0.6	0.3	0.1	6.0	4.0	1.9	1.1	2.0	4.6	9.8
4	2.3	1.3	0.7	0.2	0.1	0.0	0.6	0.3	0.2	0.0	0.0	0.8	3.0
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	0.6	0.5	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.3
11	4.6	2.6	1.5	0.4	0.1	0.0	3.8	1.6	0.8	0.1	1.8	3.0	6.8
12	8.6	5.0	2.7	0.8	0.3	0.0	14.6	9.5	5.5	1.9	4.0	7.9	12.0
Summary	36.5	22.0	11.2	3.5	1.3	0.2	54.9	37.4	22.9	7.1	15.3	28.5	51.1

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Station: **WAKEFIELD, NE US**

GHCND:USC00258915
Elev: 1391 ft. Lat: 42.265° N Lon: 96.867° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	19	103	328	646	912	1059	1006	726	383	84	5
45	1	6	52	215	493	762	903	851	577	256	42	1
50	-7777	1	22	126	347	612	749	696	433	150	17	-7777
55	0	-7777	7	66	220	463	594	541	298	75	5	0
60	0	-7777	2	30	119	319	439	388	181	32	1	0
Growing Degree Units for Corn (Monthly)												
50/86	10	20	87	224	402	595	708	669	465	249	63	7

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	24	127	455	1101	2013	3072	4078	4804	5187	5271	5276
45	1	7	59	274	767	1529	2432	3283	3860	4116	4158	4159
50	-7777	1	23	149	496	1108	1857	2553	2986	3136	3153	-7777
55	0	-7777	7	73	293	756	1350	1891	2189	2264	2269	2269
60	0	-7777	2	32	151	470	909	1297	1478	1510	1511	1511
Growing Degree Units for Corn (Monthly)												
50/86	10	30	117	341	743	1338	2046	2715	3180	3429	3492	3499

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

-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: **DANNEBROG 4 NW, NE US**

GHCND:USC00252166

Elev: 1968 ft. Lat: 41.159° N Lon: 98.601° 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	0.55	@	@	@	@			
2	0.61	@	@	@	@			
3	1.81	@	@	@	@			
4	2.37	@	@	@	@			
5	3.08	@	@	@	@			
6	3.97	@	@	@	@			
7	3.24	@	@	@	@			
8	3.01	@	@	@	@			
9	2.11	@	@	@	@			
10	2.39	@	@	@	@			
11	1.17	@	@	@	@			
12	0.66	@	@	@	@			
Summary	24.97	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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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: **HALLAM 2 N, NE US**

GHCND:USC00253524

Elev: 1450 ft. Lat: 40.567° N Lon: 96.783° 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	3.0	1.8	0.2	0.0	0.32	0.65	0.95
2	0.76	4.0	1.9	0.1	0.0	0.30	0.54	1.00
3	2.07	7.0	4.8	1.8	0.3	0.86	2.34	2.79
4	2.45	7.4	5.1	1.8	0.6	1.44	2.30	3.27
5	5.00	11.7	7.9	3.9	1.0	3.13	4.02	6.47
6	3.87	8.7	6.9	2.3	1.1	2.41	3.81	5.10
7	4.06	8.9	6.4	2.7	1.4	2.26	3.37	4.86
8	4.32	8.2	5.8	2.3	0.6	1.89	3.73	6.95
9	2.59	6.6	5.0	1.9	1.0	1.27	2.64	3.52
10	2.29	6.1	3.7	0.9	0.5	0.57	1.46	3.51
11	1.26	4.5	2.9	0.9	0.1	0.51	0.92	1.59
12	0.83	3.9	2.4	0.5	0.1	0.22	0.53	1.30
Summary	30.10	80.0	54.6	19.3	6.7	15.18	26.31	41.31

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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: **FORT CALHOUN 4 W, NE US**

GHCND:USC00252980

Elev: 1309 ft. Lat: 41.445° N Lon: 96.093° 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	30.6	12.1	21.4				0	0	0	0	0	0	1043	1105	1198	1353	0.0	0.0	1.6	15.9	30.3	6.6
2	35.4	15.4	25.4				-7777	0	0	0	0	0	828	884	968	1108	0.0	0.0	3.2	10.5	26.3	2.3
3	47.6	25.3	36.4				9	6	2	-7777	0	0	584	643	732	885	0.0	0.0	13.0	3.1	23.7	0.4
4	61.6	37.7	49.7				52	35	17	3	-7777	-7777	212	256	328	464	0.0	0.0	24.0	0.1	7.4	0.0
5	71.1	50.3	60.7				213	169	112	47	15	8	37	54	90	181	0.0	0.7	30.7	0.0	0.3	0.0
6	80.4	60.6	70.5				466	407	320	187	83	52	1	2	5	22	0.0	2.0	30.0	0.0	0.0	0.0
7	84.7	65.0	74.9				615	553	460	309	167	118	0	-7777	-7777	4	0.2	7.1	31.0	0.0	0.0	0.0
8	82.9	62.8	72.9				553	491	399	251	122	81	-7777	-7777	1	8	0.0	3.7	31.0	0.0	0.0	0.0
9	74.8	52.5	63.7				280	232	166	81	31	20	21	33	57	122	0.0	1.7	30.0	0.0	0.0	0.0
10	62.3	40.1	51.2				73	53	31	9	2	1	191	233	304	437	0.0	0.0	26.0	0.0	5.8	0.0
11	46.9	27.2	37.1				5	3	1	-7777	0	0	543	601	690	838	0.0	0.0	11.0	3.0	22.0	0.0
12	32.5	15.4	24.0				0	0	0	0	0	0	962	1024	1117	1272	0.0	0.0	2.7	15.0	29.9	3.3
Summary	59.2	38.7	49.0	9999	9999	9999	2266	1949	1508	887	420	280	4422	4835	5490	6694	0.2	15.2	234.2	47.6	145.7	12.6

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

Station: **FORT CALHOUN 4 W, NE US**

GHCND:USC00252980
Elev: 1309 ft. Lat: 41.445° N Lon: 96.093° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	14	92	320	642	915	1080	1018	709	364	82	5
45	2	4	48	208	489	765	925	863	560	240	40	1
50	-7777	-7777	23	115	341	615	770	708	413	142	16	-7777
55	0	-7777	9	52	213	466	615	553	280	73	5	0
60	0	0	2	17	112	320	460	399	166	31	1	0
Growing Degree Units for Corn (Monthly)												
50/86	6	12	70	196	373	606	740	688	434	213	54	5

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	20	112	432	1074	1989	3069	4087	4796	5160	5242	5247
45	2	6	54	262	751	1516	2441	3304	3864	4104	4144	4145
50	-7777	-7777	23	138	479	1094	1864	2572	2985	3127	3143	-7777
55	0	-7777	9	61	274	740	1355	1908	2188	2261	2266	2266
60	0	0	2	19	131	451	911	1310	1476	1507	1508	1508
Growing Degree Units for Corn (Monthly)												
50/86	6	18	88	284	657	1263	2003	2691	3125	3338	3392	3397

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: **BEAVER CITY, NE US**

GHCND:USC00250640

Elev: 2159 ft. Lat: 40.130° N Lon: 99.828° 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	12.0	26.5	6.6	4.2	5.0	-7777	0	0	0	0	0	883	945	1038	1193	0.0	0.0	8.6	8.7	30.9	4.0
2	45.3	15.5	30.4	6.9	4.6	5.3	-7777	-7777	-7777	0	0	0	689	745	829	969	0.0	0.0	11.5	5.6	27.0	3.0
3	55.7	24.9	40.3	4.9	3.4	3.6	8	4	1	-7777	0	0	464	522	612	766	0.0	0.1	20.9	1.9	24.3	0.5
4	65.8	35.6	50.7	4.7	2.5	3.2	63	45	25	8	1	-7777	192	234	304	437	0.0	0.3	26.2	0.1	11.0	0.0
5	75.1	47.9	61.5	3.8	2.7	2.8	234	188	128	56	16	9	32	48	81	165	-7777	1.8	30.9	0.0	1.1	0.0
6	85.6	58.0	71.8	3.9	2.8	3.1	505	446	359	225	117	83	1	2	6	21	1.2	9.3	30.0	0.0	0.0	0.0
7	91.5	63.6	77.6	3.4	2.0	2.3	699	637	544	390	243	189	0	0	-7777	1	4.0	18.0	31.0	0.0	0.0	0.0
8	89.7	61.1	75.4	4.3	2.4	3.1	632	570	478	328	191	143	-7777	-7777	1	6	3.1	15.3	31.0	0.0	0.0	0.0
9	81.7	50.5	66.1	3.6	2.6	2.8	349	297	224	125	57	38	16	24	41	92	0.4	6.7	29.8	0.0	0.7	0.0
10	69.1	36.3	52.7	4.4	2.7	2.5	80	57	32	10	2	1	151	190	258	391	0.0	0.9	28.6	0.2	10.3	-7777
11	53.5	23.7	38.6	6.1	3.3	4.1	5	2	1	-7777	0	0	496	554	643	792	0.0	0.0	17.6	1.9	24.5	0.4
12	40.8	12.8	26.8	6.2	4.8	5.2	-7777	0	0	0	0	0	874	936	1029	1184	0.0	0.0	8.4	7.8	30.5	3.6
Summary	66.2	36.8	51.5	4.9	3.2	3.6	2575	2246	1792	1142	627	463	3798	4200	4842	6017	8.7	52.4	274.5	26.2	160.3	11.5

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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: **BEAVER CITY, NE US**

GHCND:USC00250640

Elev: 2159 ft. Lat: 40.130° N Lon: 99.828° 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	0.55	3.4	1.9	0.3	-7777	0.16	0.45	0.79
2	0.74	3.9	2.2	0.4	0.1	0.35	0.61	1.09
3	1.79	6.0	3.9	1.0	0.4	1.07	1.65	2.49
4	2.34	7.1	4.9	1.6	0.6	1.26	2.05	2.94
5	3.70	10.4	7.0	2.1	1.0	2.34	3.39	4.76
6	3.48	9.1	5.9	2.3	0.9	2.31	3.25	4.69
7	3.01	7.7	5.5	2.4	0.8	1.36	2.70	3.46
8	3.00	7.1	4.9	2.3	0.8	0.96	2.31	4.66
9	1.93	5.7	4.1	1.3	0.4	1.00	1.66	2.70
10	1.93	5.5	3.8	1.5	0.5	0.45	1.48	2.39
11	1.09	4.2	2.6	0.7	0.1	0.44	0.85	1.72
12	0.75	3.6	2.0	0.4	-7777	0.20	0.53	0.91
Summary	24.31	73.7	48.7	16.3	5.6	11.90	20.93	32.60

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

Station: **BEAVER CITY, NE US**

GHCND:USC00250640
 Elev: 2159 ft. Lat: 40.130° N Lon: 99.828° 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	5.1	2.4	2.1	0.5	0.2	-7777	11.1	5.7	2.3	0.8	1.0	4.2	6.2
2	5.0	2.3	1.9	0.7	0.3	-7777	8.8	4.3	2.1	0.6	1.6	4.0	6.0
3	5.0	2.1	1.5	0.7	0.4	-7777	2.9	1.6	0.9	0.2	1.0	3.1	7.0
4	1.4	0.7	0.6	0.2	0.1	0.0	0.7	0.2	0.1	0.0	0.0	0.0	1.3
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	0.4	0.1	0.1	0.1	-7777	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
10	0.3	0.2	0.2	-7777	0.0	0.0	0.3	0.1	0.1	-7777	0.0	0.0	0.0
11	3.0	1.2	1.0	0.4	0.2	0.0	2.1	0.9	0.3	0.1	0.0	1.7	5.0
12	5.1	2.6	2.1	0.7	0.2	-7777	8.3	4.4	2.5	0.6	1.5	5.0	6.2
Summary	25.3	11.6	9.5	3.3	1.4	0.0	34.3	17.3	8.3	2.3	5.1	18.0	31.7

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

Station: **BEAVER CITY, NE US**

GHCND:USC00250640
Elev: 2159 ft. Lat: 40.130° N Lon: 99.828° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	29	135	341	667	954	1164	1097	783	408	104	7
45	2	8	66	222	514	804	1009	942	634	276	52	1
50	-7777	2	27	128	366	654	854	787	488	164	19	-7777
55	-7777	-7777	8	63	234	505	699	632	349	80	5	-7777
60	0	-7777	1	25	128	359	544	478	224	32	1	0
Growing Degree Units for Corn (Monthly)												
50/86	35	56	144	252	420	616	754	706	505	307	114	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	40	175	516	1183	2137	3301	4398	5181	5589	5693	5700
45	2	10	76	298	812	1616	2625	3567	4201	4477	4529	4530
50	-7777	2	29	157	523	1177	2031	2818	3306	3470	3489	-7777
55	-7777	-7777	8	71	305	810	1509	2141	2490	2570	2575	-7777
60	0	-7777	1	26	154	513	1057	1535	1759	1791	1792	1792
Growing Degree Units for Corn (Monthly)												
50/86	35	91	235	487	907	1523	2277	2983	3488	3795	3909	3936

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: FAIRMONT, NE US

GHCND:USC00252840
 Elev: 1640 ft. Lat: 40.642° N Lon: 97.593° 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	34.9	13.4	24.2	6.9	4.9	5.7	0	0	0	0	0	0	956	1018	1111	1266	0.0	0.0	4.4	12.9	30.6	4.5
2	39.5	17.0	28.2	7.2	5.5	6.1	-7777	-7777	-7777	0	0	0	749	805	889	1029	0.0	0.0	7.2	8.6	25.7	3.1
3	50.9	26.6	38.7	4.8	3.5	3.8	9	5	2	-7777	-7777	0	513	571	660	814	0.0	-7777	16.2	3.1	22.1	0.6
4	63.2	37.3	50.3	4.7	3.0	3.5	65	47	28	9	2	1	208	250	321	452	0.0	0.5	25.1	0.1	8.2	0.0
5	73.1	49.8	61.5	3.5	2.5	2.7	232	187	127	55	17	9	33	49	82	165	0.0	1.2	30.7	0.0	0.2	0.0
6	82.8	59.4	71.1	3.4	2.9	3.0	484	425	339	206	101	69	1	2	6	23	0.2	5.8	30.0	0.0	0.0	0.0
7	87.1	64.3	75.7	2.6	2.2	2.2	642	580	487	334	193	144	0	-7777	-7777	3	0.8	10.9	31.0	0.0	0.0	0.0
8	85.0	61.8	73.4	3.7	2.8	3.1	570	509	417	270	143	103	-7777	-7777	2	10	0.4	8.3	31.0	0.0	0.0	0.0
9	77.9	51.7	64.8	3.9	2.7	3.0	314	263	195	103	43	27	20	29	51	109	0.1	3.2	29.8	0.0	0.3	0.0
10	65.0	39.5	52.2	3.9	2.6	2.8	81	57	32	10	2	1	166	205	272	406	0.0	0.2	27.6	0.2	5.9	0.0
11	49.7	26.5	38.1	6.5	4.2	5.0	7	4	1	-7777	0	0	514	571	658	807	0.0	0.0	15.3	3.3	21.9	0.2
12	36.5	16.1	26.3	6.7	5.7	6.0	0	0	0	0	0	0	889	951	1044	1200	0.0	0.0	4.9	10.8	30.0	2.7
Summary	62.1	38.6	50.4	4.8	3.5	3.9	2404	2077	1628	987	501	354	4049	4451	5096	6284	1.5	30.1	253.2	39.0	144.9	11.1

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-4444: year-round risk of frost-freeze

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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: **FAIRMONT, NE US**

GHCND:USC00252840

Elev: 1640 ft. Lat: 40.642° N Lon: 97.593° 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	0.59	4.0	1.8	0.2	0.0	0.28	0.49	0.78
2	0.75	4.3	2.1	0.3	0.1	0.28	0.64	0.98
3	1.95	6.9	4.3	1.1	0.3	0.90	1.59	2.47
4	2.49	8.0	5.1	1.5	0.5	1.52	2.57	3.15
5	4.34	10.8	7.7	3.2	1.0	2.52	4.44	5.51
6	4.25	9.0	6.3	2.7	1.1	2.98	4.52	5.68
7	3.41	8.2	5.5	2.2	0.9	1.63	3.18	4.22
8	3.37	7.9	5.8	2.4	0.8	2.24	3.06	4.03
9	2.96	6.7	4.9	2.0	0.6	1.68	2.79	4.13
10	2.07	6.3	4.0	1.3	0.5	0.81	1.51	3.11
11	1.39	4.9	2.5	0.7	0.4	0.47	0.87	1.95
12	0.85	4.4	2.2	0.6	0.1	0.35	0.71	1.34
Summary	28.42	81.4	52.2	18.2	6.3	15.66	26.37	37.35

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Station: FAIRMONT, NE US

GHCND:USC00252840
 Elev: 1640 ft. Lat: 40.642° N Lon: 97.593° 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	5.8	3.1	2.6	0.8	0.3	0.0	15.6	8.2	4.4	1.8	3.0	4.7	7.0
2	5.6	2.9	2.4	0.7	0.1	0.0	12.1	7.1	4.5	1.3	3.5	5.5	8.0
3	4.9	2.1	1.9	0.5	0.3	0.0	4.9	2.7	2.0	0.5	0.5	4.0	7.0
4	0.9	0.5	0.5	0.1	0.0	0.0	0.7	0.3	0.1	0.0	0.0	0.0	1.8
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	0.1	-7777	-7777	-7777	0.0	0.0	-7777	0.0	0.0	0.0	0.0	0.0	0.0
10	0.7	0.2	0.2	0.1	-7777	-7777	0.3	0.2	0.2	0.1	0.0	0.0	0.0
11	2.8	1.5	1.3	0.2	0.1	0.0	2.7	1.0	0.4	0.1	0.0	1.5	3.8
12	6.0	2.8	2.2	0.6	0.2	0.1	11.5	5.8	3.1	1.0	0.3	5.0	8.6
Summary	26.8	13.1	11.1	3.0	1.0	0.1	47.8	25.3	14.7	4.8	7.3	20.7	36.2

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Station: FAIRMONT, NE US

GHCND:USC00252840

Elev: 1640 ft. Lat: 40.642° N Lon: 97.593° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	28	121	332	665	933	1106	1035	744	396	105	9
45	2	9	61	217	511	783	952	880	596	268	55	2
50	-7777	2	27	128	364	633	797	725	451	160	22	-7777
55	0	-7777	9	65	232	484	642	570	314	81	7	0
60	0	-7777	2	28	127	339	487	417	195	32	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	30	99	218	398	610	744	687	469	252	82	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	37	158	490	1155	2088	3194	4229	4973	5369	5474	5483
45	2	11	72	289	800	1583	2535	3415	4011	4279	4334	4336
50	-7777	2	29	157	521	1154	1951	2676	3127	3287	3309	-7777
55	0	-7777	9	74	306	790	1432	2002	2316	2397	2404	2404
60	0	-7777	2	30	157	496	983	1400	1595	1627	1628	1628
Growing Degree Units for Corn (Monthly)												
50/86	15	45	144	362	760	1370	2114	2801	3270	3522	3604	3617

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: **FORT ROBINSON, NE US**

GHCND:USC00253015
Elev: 3812 ft. Lat: 42.666° N Lon: 103.462° 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	13.1	26.8				0	0	0	0	0	0	876	938	1031	1186	0.0	0.0	6.9	6.1	30.1	4.6
2	43.5	14.0	28.8				-7777	0	0	0	0	0	735	791	875	1015	0.0	0.0	9.8	4.8	27.5	3.7
3	52.2	22.2	37.2				3	2	-7777	0	0	0	555	615	707	862	0.0	0.0	18.4	2.0	27.6	0.6
4	61.4	30.8	46.1				16	9	3	-7777	-7777	-7777	283	336	420	567	0.0	0.0	24.0	0.0	15.5	0.0
5	71.0	40.8	55.9				115	83	47	14	4	2	87	117	174	297	0.0	0.4	30.4	0.0	3.8	0.0
6	79.4	50.1	64.8				303	249	176	77	27	16	10	17	33	84	0.3	3.5	30.0	0.0	0.1	0.0
7	88.6	57.0	72.8				551	489	397	248	121	79	-7777	-7777	1	7	0.9	14.2	31.0	0.0	0.0	0.0
8	88.1	54.5	71.3				506	445	355	215	99	64	2	3	5	20	1.4	13.8	31.0	0.0	0.0	0.0
9	78.9	44.3	61.6				233	189	131	62	23	15	35	52	84	164	1.0	5.0	29.6	0.0	1.3	0.0
10	63.7	32.5	48.1				29	18	7	1	-7777	0	243	293	376	525	0.0	0.0	27.5	0.0	14.4	0.0
11	49.4	20.5	35.0				-7777	-7777	-7777	0	0	0	602	662	752	902	0.0	0.0	14.9	2.6	27.0	0.8
12	39.5	12.1	25.8				-7777	0	0	0	0	0	904	966	1059	1214	0.0	0.0	8.3	8.7	30.1	5.6
Summary	63.0	32.7	47.9	9999	9999	9999	1756	1484	1116	617	274	176	4332	4790	5517	6843	3.6	36.9	261.8	24.2	177.4	15.3

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Station: **FORT ROBINSON, NE US**

GHCND:USC00253015
Elev: 3812 ft. Lat: 42.666° N Lon: 103.462° 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	0.31	@	@	@	@			
2	0.51	@	@	@	@			
3	1.14	@	@	@	@			
4	1.94	@	@	@	@			
5	2.80	@	@	@	@			
6	2.78	@	@	@	@			
7	2.11	@	@	@	@			
8	1.59	@	@	@	@			
9	1.41	@	@	@	@			
10	1.17	@	@	@	@			
11	0.52	@	@	@	@			
12	0.46	@	@	@	@			
Summary	16.74	9999	9999	9999	9999	9999	9999	9999

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Station: **FORT ROBINSON, NE US**

GHCND:USC00253015
Elev: 3812 ft. Lat: 42.666° N Lon: 103.462° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	10	79	220	494	743	1016	970	649	276	56	20
45	-7777	1	34	122	348	593	861	815	502	161	23	6
50	-7777	-7777	13	53	218	445	706	660	360	78	6	1
55	0	-7777	3	16	115	303	551	506	233	29	-7777	-7777
60	0	0	-7777	3	47	176	397	355	131	7	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	18	28	99	188	329	466	644	605	426	223	74	29

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	6	16	95	315	809	1552	2568	3538	4187	4463	4519	4539
45	-7777	1	35	157	505	1098	1959	2774	3276	3437	3460	3466
50	-7777	-7777	13	66	284	729	1435	2095	2455	2533	2539	2540
55	0	-7777	3	19	134	437	988	1494	1727	1756	-7777	-7777
60	0	0	-7777	3	50	226	623	978	1109	1116	-7777	1116
Growing Degree Units for Corn (Monthly)												
50/86	18	46	145	333	662	1128	1772	2377	2803	3026	3100	3129

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: **TEKAMAH MUNICIPAL AIRPORT, NE US**

GHCND:USW00094978

Elev: 1027 ft. Lat: 41.764° N Lon: 96.178° 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	31.9	12.0	21.9	6.8	5.2	5.8	-7777	0	0	0	0	0	1024	1086	1179	1334	0.0	0.0	2.4	15.0	30.6	6.0
2	36.5	16.5	26.5	6.8	5.8	6.1	-7777	-7777	-7777	0	0	0	798	854	938	1078	0.0	0.0	4.3	9.8	25.7	3.5
3	48.8	27.4	38.1	5.2	3.2	3.9	9	6	2	-7777	-7777	-7777	533	592	681	834	0.0	0.0	14.4	2.8	21.3	0.5
4	63.5	38.3	50.9	4.7	2.9	3.5	63	44	25	8	1	-7777	186	227	298	431	0.0	0.4	26.1	0.0	7.3	0.0
5	74.2	50.3	62.3	4.4	3.1	3.5	250	204	142	68	25	16	26	41	72	153	0.0	1.5	30.9	0.0	0.4	0.0
6	83.4	60.2	71.8	3.0	2.7	2.7	504	445	358	222	109	74	1	2	4	18	0.1	6.2	30.0	0.0	0.0	0.0
7	87.0	64.1	75.6	2.9	2.3	2.4	637	575	482	330	187	137	-7777	-7777	-7777	3	0.3	9.8	31.0	0.0	0.0	0.0
8	84.3	61.4	72.9	3.4	2.8	2.9	553	491	399	251	122	85	-7777	-7777	1	7	0.1	5.7	31.0	0.0	0.0	0.0
9	77.9	51.1	64.5	3.5	2.4	2.7	302	251	182	93	37	23	17	26	47	108	0.1	2.5	30.0	0.0	0.4	0.0
10	64.1	38.8	51.5	3.6	2.7	2.7	76	56	34	14	5	3	186	229	300	434	0.0	0.5	27.3	0.0	8.6	0.0
11	47.8	26.7	37.2	6.4	3.8	4.9	6	4	1	-7777	0	0	539	596	684	833	0.0	0.0	13.0	3.4	21.6	0.0
12	33.4	14.8	24.1	6.7	6.7	6.5	-7777	-7777	0	0	0	0	958	1019	1112	1267	0.0	0.0	3.0	12.7	29.5	4.2
Summary	61.1	38.5	49.8	4.8	3.6	4.0	2400	2076	1625	986	486	338	4268	4672	5316	6500	0.6	26.6	243.4	43.7	145.4	14.2

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Station: **TEKAMAH MUNICIPAL AIRPORT, NE US**

GHCND:USW00094978

Elev: 1027 ft. Lat: 41.764° N Lon: 96.178° 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	0.43	@	@	@	@			
2	0.47	@	@	@	@			
3	2.01	@	@	@	@			
4	3.28	@	@	@	@			
5	4.10	@	@	@	@			
6	4.53	@	@	@	@			
7	3.69	@	@	@	@			
8	3.69	@	@	@	@			
9	3.04	@	@	@	@			
10	2.00	@	@	@	@			
11	1.40	@	@	@	@			
12	0.89	@	@	@	@			
Summary	29.53	9999	9999	9999	9999	9999	9999	9999

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Station: **TEKAMAH MUNICIPAL AIRPORT, NE US**

GHCND:USW00094978
Elev: 1027 ft. Lat: 41.764° N Lon: 96.178° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	17	101	346	690	954	1102	1018	735	371	89	5
45	1	5	50	226	535	804	947	863	586	246	44	1
50	-7777	1	23	130	385	654	792	708	439	146	19	-7777
55	-7777	-7777	9	63	250	504	637	553	302	76	6	-7777
60	0	-7777	2	25	142	358	482	399	182	34	1	0
Growing Degree Units for Corn (Monthly)												
50/86	7	15	77	220	420	629	747	683	468	241	67	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	22	123	469	1159	2113	3215	4233	4968	5339	5428	5433
45	1	6	56	282	817	1621	2568	3431	4017	4263	4307	4308
50	-7777	1	24	154	539	1193	1985	2693	3132	3278	3297	-7777
55	-7777	-7777	9	72	322	826	1463	2016	2318	2394	2400	-7777
60	0	-7777	2	27	169	527	1009	1408	1590	1624	1625	1625
Growing Degree Units for Corn (Monthly)												
50/86	7	22	99	319	739	1368	2115	2798	3266	3507	3574	3580

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: EUSTIS 2 NW, NE US

GHCND:USC00252790
 Elev: 2690 ft. Lat: 40.686° N Lon: 100.054° 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	37.5	12.9	25.2				-7777	0	0	0	0	0	924	986	1079	1234	0.0	0.0	7.4	11.9	30.8	3.9
2	41.3	15.9	28.6				-7777	-7777	0	0	0	0	739	795	879	1019	0.0	0.0	7.7	7.4	27.1	2.4
3	50.6	24.3	37.4				6	3	1	0	0	0	550	609	700	854	0.0	0.0	16.8	3.0	25.3	0.4
4	61.2	34.9	48.1				34	20	7	1	-7777	-7777	242	288	366	510	0.0	0.0	24.1	0.2	10.3	0.0
5	71.7	47.5	59.6				192	150	99	41	10	5	49	70	112	209	0.0	0.6	30.3	0.0	0.3	0.0
6	81.6	57.1	69.4				433	376	293	170	77	51	3	5	13	39	0.3	6.2	30.0	0.0	0.0	0.0
7	87.6	63.0	75.3				629	567	474	323	182	132	-7777	-7777	-7777	4	1.7	11.4	31.0	0.0	0.0	0.0
8	85.6	60.3	73.0				556	494	402	255	131	93	-7777	-7777	1	9	0.8	9.9	31.0	0.0	0.0	0.0
9	77.7	50.2	64.0				288	240	173	85	32	20	20	32	54	117	0.1	3.4	30.0	0.0	0.2	0.0
10	64.6	36.1	50.4				64	45	25	7	1	1	208	251	324	461	0.0	0.5	27.2	0.2	9.6	0.0
11	49.1	25.0	37.1				2	1	-7777	-7777	-7777	0	541	599	689	838	0.0	0.0	14.2	3.3	23.9	0.1
12	37.9	14.7	26.3				0	0	0	0	0	0	889	951	1044	1199	0.0	0.0	6.1	9.8	30.6	2.7
Summary	62.2	36.8	49.5	9999	9999	9999	2204	1896	1474	882	433	302	4165	4586	5261	6493	2.9	32.0	255.8	35.8	158.1	9.5

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www.ncdc.noaa.gov

Station: **EUSTIS 2 NW, NE US**

GHCND:USC00252790

Elev: 2690 ft. Lat: 40.686° N Lon: 100.054° 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	0.57	4.0	1.5	0.3	-7777	0.18	0.43	0.81
2	0.72	4.8	2.3	0.3	0.0	0.30	0.65	1.08
3	1.53	6.6	3.4	0.7	0.4	0.69	1.38	2.16
4	2.28	8.5	4.9	1.4	0.6	1.16	2.00	3.28
5	3.77	11.5	6.7	2.2	0.8	2.26	3.18	4.43
6	3.60	10.6	6.5	2.2	0.7	2.19	3.41	4.55
7	3.30	8.9	5.6	2.4	0.9	2.11	2.94	4.10
8	2.62	7.7	4.4	1.8	0.8	1.39	2.46	3.67
9	1.79	6.6	3.2	1.2	0.5	0.70	1.70	2.31
10	1.80	6.6	3.5	1.0	0.5	0.59	1.28	2.48
11	1.02	4.6	2.6	0.7	0.1	0.39	0.75	1.67
12	0.66	4.0	1.7	0.3	0.1	0.11	0.51	0.86
Summary	23.66	84.4	46.3	14.5	5.4	12.07	20.69	31.40

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Station: **EUSTIS 2 NW, NE US**

GHCND:USC00252790
 Elev: 2690 ft. Lat: 40.686° N Lon: 100.054° 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	5.1	4.0	1.6	0.5	0.2	0.1	13.8	8.3	4.6	1.2	2.1	4.9	7.7
2	6.0	4.0	2.0	0.6	0.2	0.0	11.9	6.4	3.3	0.5	2.6	4.8	8.6
3	5.0	3.6	1.8	0.5	0.2	0.1	5.1	2.3	1.2	0.2	1.6	3.9	6.3
4	3.7	2.0	1.1	0.4	0.1	0.1	1.7	0.9	0.4	0.1	0.3	0.9	5.6
5	0.1	0.1	-7777	0.0	0.0	0.0	-7777	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	0.3	0.1	0.1	-7777	-7777	0.0	0.1	-7777	-7777	0.0	0.0	0.0	0.0
10	1.6	0.9	0.6	0.2	0.1	0.0	0.9	0.4	0.1	0.0	0.0	0.0	2.4
11	4.0	2.7	1.5	0.4	0.2	0.0	4.3	1.8	1.0	0.2	1.3	3.2	4.4
12	5.1	3.7	1.8	0.4	0.2	0.0	11.2	7.0	3.7	0.6	1.1	4.6	8.8
Summary	30.9	21.1	10.5	3.0	1.2	0.3	49.0	27.1	14.3	2.8	9.0	22.3	43.8

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Station: EUSTIS 2 NW, NE US

GHCND:USC00252790
Elev: 2690 ft. Lat: 40.686° N Lon: 100.054° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	21	98	279	608	880	1093	1021	718	346	84	9
45	2	8	47	173	457	730	938	866	569	225	36	1
50	-7777	3	19	89	315	581	784	711	424	129	11	-7777
55	-7777	-7777	6	34	192	433	629	556	288	64	2	0
60	0	0	1	7	99	293	474	402	173	25	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	25	32	94	189	358	559	724	663	447	243	73	18

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	11	32	130	409	1017	1897	2990	4011	4729	5075	5159	5168
45	2	10	57	230	687	1417	2355	3221	3790	4015	4051	4052
50	-7777	3	22	111	426	1007	1791	2502	2926	3055	3066	-7777
55	-7777	-7777	6	40	232	665	1294	1850	2138	2202	2204	2204
60	0	0	1	8	107	400	874	1276	1449	1474	-7777	1474
Growing Degree Units for Corn (Monthly)												
50/86	25	57	151	340	698	1257	1981	2644	3091	3334	3407	3425

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

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1981-2010**

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

Station: **ELWOOD 8 S, NE US**

GHCND:USC00252690

Elev: 2402 ft. Lat: 40.477° N Lon: 99.886° 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	0.48	2.8	1.3	0.2	-7777	0.13	0.38	0.71
2	0.57	3.6	1.8	0.2	0.0	0.22	0.50	0.79
3	1.46	5.4	3.5	0.9	0.3	0.53	1.13	2.25
4	2.06	6.7	4.2	1.2	0.5	0.88	1.97	2.78
5	3.76	10.7	7.1	2.3	0.8	2.67	3.28	4.65
6	3.78	9.3	6.2	2.3	0.9	2.41	3.45	5.11
7	3.43	8.0	5.8	2.4	1.0	1.83	3.01	4.42
8	2.80	7.1	4.8	1.7	0.7	1.36	2.27	3.49
9	1.61	5.6	3.2	1.2	0.3	0.86	1.30	2.33
10	1.90	5.6	3.5	1.3	0.5	0.49	1.62	2.55
11	0.94	3.9	2.0	0.7	-7777	0.29	0.74	1.28
12	0.64	3.1	1.6	0.3	0.1	0.17	0.44	0.83
Summary	23.43	71.8	45.0	14.7	5.1	11.84	20.09	31.19

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Station: **ELWOOD 8 S, NE US**

GHCND:USC00252690
Elev: 2402 ft. Lat: 40.477° N Lon: 99.886° 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	4.9	2.9	1.7	0.5	0.3	0.0	7.0	1.5	0.7	0.0	2.0	3.5	8.0
2	4.8	2.9	1.7	0.6	0.2	0.0	6.2	1.6	0.4	-7777	1.5	4.0	8.0
3	3.7	2.3	1.5	0.6	0.3	-7777	2.4	1.1	0.7	0.1	1.3	2.1	4.0
4	1.9	1.0	0.9	0.2	-7777	0.0	0.4	0.2	-7777	0.0	0.0	0.0	3.0
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	0.2	0.1	-7777	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.5	0.3	0.1	-7777	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0
11	3.5	1.8	1.1	0.4	0.2	-7777	1.8	0.9	0.5	-7777	0.5	1.9	4.5
12	4.6	2.9	1.6	0.6	0.1	-7777	4.6	1.8	1.1	0.0	1.0	3.2	5.5
Summary	24.4	14.4	8.8	3.0	1.1	0.0	22.8	7.2	3.5	0.1	6.3	14.7	33.0

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

Station: **LOGEPOLE 8 N, NE US**

GHCND:USC00254903
Elev: 3885 ft. Lat: 41.266° N Lon: 102.658° 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	12.5	26.2	5.2	4.2	4.4	0	0	0	0	0	0	894	956	1049	1204	0.0	0.0	7.1	8.4	30.8	4.1
2	43.3	15.5	29.4	6.2	3.5	4.6	-7777	0	0	0	0	0	717	773	857	997	0.0	0.0	8.3	5.9	27.7	2.2
3	51.8	22.7	37.2	4.2	2.8	3.1	2	1	-7777	0	0	0	552	613	705	860	0.0	0.0	18.0	2.4	28.1	0.5
4	60.4	30.8	45.6	4.4	2.1	3.0	13	7	2	-7777	-7777	0	295	349	434	582	0.0	0.0	23.4	0.3	16.8	0.0
5	70.3	41.6	55.9	3.8	1.9	2.5	121	88	49	15	3	1	91	120	175	295	0.0	0.8	29.9	0.0	3.2	0.0
6	81.1	50.9	66.0	4.2	2.4	3.0	340	286	211	107	39	23	10	16	31	77	0.3	6.2	30.0	0.0	0.0	0.0
7	88.3	57.7	73.0	3.2	1.3	2.2	558	496	405	256	125	84	-7777	1	2	8	1.0	13.8	31.0	0.0	0.0	0.0
8	86.6	54.9	70.8	3.4	1.7	2.4	489	428	338	198	85	53	1	2	5	20	0.7	11.1	31.0	0.0	0.0	0.0
9	77.9	44.6	61.2	3.5	2.7	2.9	224	179	122	52	14	7	36	52	84	165	0.1	4.0	29.6	0.0	1.5	0.0
10	64.7	32.1	48.4	3.8	2.0	2.5	39	25	11	2	-7777	-7777	243	292	371	517	0.0	0.3	27.0	0.6	14.3	0.0
11	50.5	21.6	36.1	5.9	3.2	4.1	1	-7777	-7777	-7777	0	0	570	629	719	869	0.0	0.0	15.2	3.2	27.0	0.7
12	39.2	12.3	25.8	5.7	4.2	4.8	0	0	0	0	0	0	906	968	1061	1216	0.0	0.0	6.6	8.7	30.6	4.7
Summary	62.8	33.1	48.0	4.5	2.7	3.3	1787	1510	1138	630	266	168	4315	4771	5493	6810	2.1	36.2	257.1	29.5	180.0	12.2

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Station: **LOGGEPOLE 8 N, NE US**

GHCND:USC00254903

Elev: 3885 ft. Lat: 41.266° N Lon: 102.658° 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	0.25	2.6	1.1	0.0	0.0	0.15	0.22	0.38
2	0.41	3.5	1.6	0.0	0.0	0.15	0.28	0.66
3	1.35	5.4	3.0	0.8	0.3	0.70	1.10	1.77
4	1.90	7.5	5.6	1.8	0.3	1.13	1.58	2.32
5	2.87	8.8	5.6	1.2	0.3	1.61	2.58	4.06
6	3.52	9.9	7.1	1.8	0.8	1.94	3.17	4.54
7	2.58	8.3	4.6	1.8	0.5	1.72	2.35	3.22
8	2.20	7.1	4.7	1.5	0.5	1.25	1.96	3.33
9	1.53	5.9	3.4	1.3	0.3	0.93	1.44	2.04
10	1.34	6.2	3.3	0.7	0.3	0.60	1.03	1.78
11	0.68	3.5	2.0	0.2	0.1	0.20	0.49	1.17
12	0.35	3.1	0.8	0.2	0.1	0.13	0.26	0.41
Summary	18.98	71.8	42.8	11.3	3.5	10.51	16.46	25.68

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Station: **LOGEPOLE 8 N, NE US**

GHCND:USC00254903
 Elev: 3885 ft. Lat: 41.266° N Lon: 102.658° 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	1.7	1.2	0.4	0.1	0.0	7.8	4.9	2.9	0.2	0.5	3.9	5.4
2	5.5	3.0	2.2	0.6	0.1	0.0	6.7	3.7	1.2	0.2	1.4	6.5	7.9
3	6.7	3.6	2.2	0.6	0.3	0.1	4.2	1.9	1.1	0.3	2.7	6.5	9.2
4	4.4	1.7	1.4	0.5	0.3	0.0	1.8	0.8	0.3	0.0	2.1	3.7	7.3
5	0.6	0.5	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.3
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	0.6	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
10	0.9	1.0	0.5	0.3	0.2	0.0	1.0	0.5	0.3	0.1	0.0	0.0	1.9
11	4.6	1.9	1.5	0.5	0.2	0.1	2.7	1.0	0.5	0.5	2.1	2.8	4.6
12	5.5	2.5	1.5	0.5	0.3	0.1	7.8	5.2	3.7	0.8	1.1	3.6	6.9
Summary	32.3	16.1	10.8	3.6	1.6	0.3	32.3	18.2	10.1	2.1	9.9	27.0	43.5

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-4444: year-round risk of frost-freeze

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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: **LOGDEPOLE 8 N, NE US**

GHCND:USC00254903
Elev: 3885 ft. Lat: 41.266° N Lon: 102.658° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	19	85	216	497	780	1022	953	638	296	77	10
45	1	5	37	119	352	630	867	798	492	182	33	2
50	-7777	1	11	52	222	482	713	643	351	95	9	-7777
55	0	-7777	2	13	121	340	558	489	224	39	1	0
60	0	0	-7777	2	49	211	405	338	122	11	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	24	37	103	182	318	483	647	600	415	243	95	23

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	28	113	329	826	1606	2628	3581	4219	4515	4592	4602
45	1	6	43	162	514	1144	2011	2809	3301	3483	3516	3518
50	-7777	1	12	64	286	768	1481	2124	2475	2570	2579	-7777
55	0	-7777	2	15	136	476	1034	1523	1747	1786	1787	1787
60	0	0	-7777	2	51	262	667	1005	1127	1138	-7777	1138
Growing Degree Units for Corn (Monthly)												
50/86	24	61	164	346	664	1147	1794	2394	2809	3052	3147	3170

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: **RANDOLPH, NE US**

GHCND:USC00257032

Elev: 1775 ft. Lat: 42.294° N Lon: 97.365° 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	0.47	4.0	1.4	0.1	0.0	0.21	0.45	0.60
2	0.59	3.9	1.8	0.2	0.0	0.28	0.50	0.71
3	1.68	5.9	4.1	1.1	0.3	0.68	1.30	2.37
4	2.77	8.0	5.5	1.6	0.7	1.43	2.41	3.87
5	3.83	9.0	7.2	2.9	1.0	2.75	3.94	4.62
6	3.99	9.1	6.9	2.4	1.4	2.42	3.72	5.70
7	2.86	6.7	5.5	1.8	0.7	1.46	2.45	3.63
8	3.17	6.9	5.1	1.7	1.0	1.33	2.48	4.69
9	2.69	6.3	4.6	1.8	0.7	1.47	2.50	3.64
10	2.25	6.1	4.1	1.5	0.6	0.82	1.82	3.45
11	1.32	4.8	3.1	0.8	0.2	0.52	1.07	2.10
12	0.87	4.7	2.0	0.4	0.1	0.28	0.51	1.27
Summary	26.49	75.4	51.3	16.3	6.7	13.65	23.15	36.65

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

Station: **RANDOLPH, NE US**

GHCND:USC00257032

Elev: 1775 ft. Lat: 42.294° N Lon: 97.365° 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	3.1	2.1	0.6	0.2	0.0	15.8	10.3	6.7	1.5	1.5	5.5	8.0
2	4.9	2.7	2.2	0.6	0.1	0.0	12.6	8.9	5.9	1.8	2.5	4.0	6.5
3	5.1	2.4	2.1	0.7	0.2	-7777	6.7	3.6	1.9	0.5	1.0	4.0	6.8
4	3.1	1.1	0.9	0.5	0.3	-7777	1.4	0.5	0.3	0.0	0.0	0.8	5.5
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	0.7	0.4	0.3	0.1	-7777	0.0	0.4	-7777	0.0	0.0	0.0	0.0	0.0
11	3.9	2.1	1.7	0.6	0.2	-7777	4.5	2.0	1.1	0.1	1.0	2.3	6.0
12	6.2	3.4	2.4	0.7	0.2	-7777	14.8	7.7	3.7	1.4	2.7	4.2	7.2
Summary	29.2	15.2	11.7	3.8	1.2	0.0	56.2	33.0	19.6	5.3	8.7	20.8	40.0

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

Station: **O NEILL, NE US**

GHCND:USC00256290

Elev: 1991 ft. Lat: 42.459° N Lon: 98.656° 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	32.2	10.9	21.6	7.0	6.0	6.4	0	0	0	0	0	0	1037	1099	1192	1347	0.0	0.0	3.8	15.0	30.5	7.0
2	36.2	14.0	25.1	7.2	5.9	6.4	-7777	-7777	-7777	0	0	0	837	893	977	1117	0.0	0.0	5.4	10.9	26.9	4.2
3	46.9	23.1	35.0	5.3	3.7	4.2	4	2	1	-7777	-7777	0	624	684	776	930	0.0	0.0	13.7	5.1	25.4	1.0
4	59.2	34.2	46.7	5.1	3.1	3.8	43	31	19	6	1	1	292	340	418	555	0.0	0.4	22.2	0.7	12.5	0.0
5	70.7	46.2	58.5	3.5	2.8	2.9	173	135	88	35	9	5	66	90	136	239	0.0	1.0	29.9	0.0	1.2	0.0
6	81.2	56.3	68.7	3.7	2.9	3.2	417	360	278	159	74	50	4	7	16	47	0.3	5.1	29.9	0.0	0.0	0.0
7	87.6	61.7	74.7	3.6	2.6	3.0	609	547	455	307	174	131	-7777	-7777	1	8	1.7	12.0	31.0	0.0	0.0	0.0
8	85.3	59.6	72.5	3.2	2.5	2.7	542	481	390	247	127	90	1	2	4	16	0.8	9.0	31.0	0.0	0.0	0.0
9	75.8	48.7	62.2	3.9	2.7	3.0	256	212	153	79	31	19	39	54	86	162	0.1	2.8	29.6	0.0	1.1	0.0
10	61.7	35.9	48.8	4.1	2.8	3.0	49	33	17	4	1	-7777	241	287	365	506	0.0	0.3	25.1	0.4	10.0	0.0
11	45.6	23.3	34.5	6.6	4.5	5.4	3	2	1	-7777	0	0	620	678	767	916	0.0	0.0	11.7	5.4	24.3	0.7
12	32.9	12.7	22.8	7.4	6.1	6.6	-7777	-7777	0	0	0	0	998	1060	1153	1308	0.0	0.0	3.6	13.7	30.3	5.0
Summary	59.6	35.6	47.6	5.1	3.8	4.2	2096	1803	1402	837	417	296	4759	5194	5891	7151	2.9	30.6	236.9	51.2	162.2	17.9

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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: **O NEILL, NE US**

GHCND:USC00256290

Elev: 1991 ft. Lat: 42.459° N Lon: 98.656° 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	0.50	3.3	1.2	0.2	-7777	0.22	0.43	0.67
2	0.56	3.7	1.7	0.2	-7777	0.24	0.42	0.76
3	1.76	6.1	3.8	1.0	0.3	0.61	1.35	2.68
4	2.72	8.5	5.3	1.9	0.6	1.58	2.66	3.47
5	3.72	10.3	7.1	2.6	0.9	2.50	3.43	5.19
6	3.61	10.2	6.6	2.3	0.8	2.35	2.73	4.38
7	3.14	8.0	5.3	1.7	0.7	1.72	2.61	4.39
8	2.95	7.7	5.1	1.7	0.8	1.73	2.60	4.52
9	2.47	6.6	3.9	1.0	0.6	1.22	2.16	3.17
10	2.07	6.5	4.3	1.4	0.5	0.81	1.68	3.56
11	1.05	4.2	2.6	0.7	0.1	0.40	0.96	1.49
12	0.70	4.0	2.0	0.3	0.1	0.25	0.44	0.93
Summary	25.25	79.1	48.9	15.0	5.4	13.63	21.47	35.21

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Station: **O NEILL, NE US**

GHCND:USC00256290
 Elev: 1991 ft. Lat: 42.459° N Lon: 98.656° 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	1.5	0.7	0.2	0.1	14.5	9.5	7.0	2.2	0.7	4.0	6.0
2	4.0	2.2	1.7	0.6	0.2	-7777	12.1	8.6	6.1	1.2	2.4	3.9	5.6
3	5.8	2.4	1.8	0.9	0.4	-7777	7.4	4.7	2.9	1.0	2.0	4.0	8.5
4	2.7	0.9	0.7	0.4	0.2	0.1	1.6	0.9	0.6	0.2	0.0	0.0	2.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-7777	-7777	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	0.3	0.2	0.0	0.0	0.0	0.6	0.1	-7777	0.0	0.0	0.0	0.0
11	3.3	1.5	1.0	0.4	0.2	0.0	4.5	2.6	1.4	-7777	0.3	1.0	3.0
12	5.3	2.6	1.6	0.7	0.3	-7777	15.7	10.5	6.9	3.0	0.5	3.3	9.3
Summary	26.3	12.0	8.5	3.7	1.5	0.2	56.5	36.9	24.9	7.6	5.9	16.2	34.4

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

Station: **O NEILL, NE US**

GHCND:USC00256290

Elev: 1991 ft. Lat: 42.459° N Lon: 98.656° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	16	79	251	573	862	1074	1006	668	310	71	7
45	1	4	37	156	424	712	919	851	522	197	34	1
50	-7777	1	14	87	287	563	764	696	382	108	13	-7777
55	0	-7777	4	43	173	417	609	542	256	49	3	-7777
60	0	-7777	1	19	88	278	455	390	153	17	1	0
Growing Degree Units for Corn (Monthly)												
50/86	12	21	73	172	344	548	702	655	418	205	60	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	23	102	353	926	1788	2862	3868	4536	4846	4917	4924
45	1	5	42	198	622	1334	2253	3104	3626	3823	3857	3858
50	-7777	1	15	102	389	952	1716	2412	2794	2902	2915	-7777
55	0	-7777	4	47	220	637	1246	1788	2044	2093	2096	-7777
60	0	-7777	1	20	108	386	841	1231	1384	1401	1402	1402
Growing Degree Units for Corn (Monthly)												
50/86	12	33	106	278	622	1170	1872	2527	2945	3150	3210	3220

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: **MILLER, NE US**

GHCND:USC00255525

Elev: 2310 ft. Lat: 40.928° N Lon: 99.389° 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	2.0	1.0	0.1	0.1	0.14	0.35	0.53
2	0.42	2.8	1.6	0.1	0.1	0.10	0.30	0.76
3	1.25	3.9	2.9	0.8	0.3	0.27	0.97	1.71
4	1.96	5.4	4.1	1.1	0.4	0.92	1.68	2.91
5	4.03	7.9	6.4	2.4	1.1	2.33	3.45	4.95
6	4.17	8.2	6.4	2.8	1.1	3.03	3.81	5.50
7	2.78	5.9	4.7	2.1	0.9	0.58	2.41	4.16
8	2.73	5.5	4.3	1.7	0.9	1.76	2.70	3.64
9	1.59	4.2	3.2	1.0	0.4	0.69	1.44	2.24
10	1.43	4.1	3.1	0.6	0.4	0.43	0.99	1.87
11	0.65	2.2	1.6	0.4	0.1	0.10	0.38	1.10
12	0.46	2.3	1.3	0.3	-7777	0.06	0.23	0.69
Summary	21.82	54.4	40.6	13.4	5.8	10.41	18.71	30.06

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

Station: **MILLER, NE US**

GHCND:USC00255525

Elev: 2310 ft. Lat: 40.928° N Lon: 99.389° 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	1.9	1.6	0.5	0.3	0.1	8.3	4.4	2.3	0.7	0.5	3.8	7.4
2	4.3	2.0	1.7	0.6	0.2	0.1	7.1	3.5	1.6	0.6	0.1	4.0	6.5
3	3.6	1.2	0.9	0.5	0.3	0.1	3.4	1.6	1.1	0.3	0.0	1.0	6.0
4	1.7	0.6	0.5	0.3	0.1	0.0	1.5	0.7	0.3	0.0	0.0	0.0	1.5
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	1.0	0.4	0.4	0.2	-7777	0.0	0.9	0.3	0.1	0.0	0.0	0.0	0.0
11	2.3	0.7	0.7	0.2	0.1	0.0	2.4	1.4	0.9	0.6	0.0	1.0	3.0
12	3.5	1.7	1.5	0.3	0.1	0.0	7.7	5.2	3.1	1.0	1.0	2.0	4.2
Summary	21.7	8.5	7.3	2.6	1.1	0.3	31.3	17.1	9.4	3.2	1.6	11.8	28.6

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **BOYS TOWN, NE US**

GHCND:USC00251052

Elev: 1240 ft. Lat: 41.262° N Lon: 96.142° 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	0.68	4.3	2.1	0.2	0.0	0.42	0.56	0.98
2	0.81	5.1	2.1	0.2	0.0	0.28	0.67	0.96
3	1.79	7.1	4.3	1.1	0.3	0.83	1.52	2.63
4	2.88	9.0	6.2	2.1	0.5	1.83	2.28	3.81
5	4.23	11.5	8.5	2.8	1.1	2.67	3.89	5.40
6	4.53	9.4	7.3	3.3	1.4	2.39	3.87	6.58
7	3.53	9.0	6.2	2.5	1.0	1.76	3.17	4.41
8	3.42	7.8	5.0	1.9	0.8	1.57	2.51	5.11
9	3.01	7.3	4.8	1.7	0.7	2.06	2.74	3.48
10	2.43	6.4	4.1	1.4	0.5	1.32	1.94	3.66
11	1.35	6.4	3.2	1.1	0.2	0.67	1.39	1.88
12	0.91	5.9	2.1	0.3	0.2	0.41	0.65	1.19
Summary	29.57	89.2	55.9	18.6	6.7	16.21	25.19	40.09

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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: **LOGDEPOLE, NE US**

GHCND:USC00254900
 Elev: 3832 ft. Lat: 41.149° N Lon: 102.636° 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	13.8	26.8	4.8	3.9	4.1	0	0	0	0	0	0	876	938	1031	1186	0.0	0.0	6.5	7.8	30.6	3.5
2	43.5	16.4	30.0	5.5	4.2	4.6	-7777	0	0	0	0	0	701	757	841	981	0.0	0.0	9.7	5.2	27.3	2.6
3	52.1	23.5	37.8	4.2	3.3	3.4	2	1	-7777	0	0	0	535	596	688	843	0.0	0.0	18.6	2.7	26.4	0.5
4	61.5	31.9	46.7	4.6	2.4	3.2	29	18	8	2	-7777	-7777	278	327	407	550	0.0	0.1	24.5	0.5	15.3	0.0
5	71.5	43.0	57.2	3.9	2.2	2.7	149	113	69	23	4	1	79	105	154	263	0.0	0.9	29.8	-7777	2.4	0.0
6	82.3	53.5	67.9	4.0	2.5	3.1	393	337	258	142	60	39	6	10	21	55	0.5	7.1	29.9	0.0	0.0	0.0
7	90.6	59.8	75.2	2.9	2.2	2.3	626	564	472	321	181	133	-7777	-7777	1	5	2.8	17.4	31.0	0.0	0.0	0.0
8	88.1	57.7	72.9	3.2	2.3	2.5	556	494	403	258	129	88	1	2	4	13	0.7	13.8	31.0	0.0	0.0	0.0
9	78.0	46.1	62.1	3.3	2.3	2.5	247	200	140	62	18	9	35	49	78	150	0.0	3.9	29.6	0.0	1.1	0.0
10	64.9	33.8	49.3	4.1	2.1	2.7	41	26	12	2	-7777	-7777	217	263	342	487	0.0	0.1	27.1	0.4	11.6	-7777
11	49.2	22.0	35.6	5.8	3.1	4.2	1	-7777	-7777	0	0	0	583	642	732	882	0.0	0.0	14.8	3.3	26.5	0.6
12	39.0	13.4	26.2	5.4	4.3	4.7	0	0	0	0	0	0	893	955	1048	1202	0.0	0.0	6.4	8.0	30.6	3.5
Summary	63.4	34.6	49.0	4.3	2.9	3.3	2044	1753	1362	810	392	270	4204	4644	5347	6617	4.0	43.3	258.9	27.9	171.8	10.7

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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: **LOGDGEPOLE, NE US**

GHCND:USC00254900
Elev: 3832 ft. Lat: 41.149° N Lon: 102.636° 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	0.31	2.5	0.9	0.1	-7777	0.11	0.29	0.43
2	0.45	3.2	1.5	-7777	-7777	0.11	0.31	0.73
3	1.09	5.3	3.3	0.4	0.2	0.60	0.80	1.38
4	1.88	6.3	3.9	1.0	0.3	0.75	1.83	2.56
5	3.04	9.1	5.8	2.0	0.5	2.18	2.70	3.72
6	3.26	8.5	6.1	1.9	0.6	1.65	2.76	4.22
7	2.62	6.7	5.1	1.5	0.6	1.78	2.50	3.30
8	2.28	6.5	4.8	1.6	0.5	1.56	2.26	3.16
9	1.54	5.0	3.5	0.7	0.3	0.59	1.11	2.17
10	1.20	4.5	3.1	0.7	0.1	0.44	0.81	1.48
11	0.61	3.2	1.9	0.3	-7777	0.14	0.44	0.91
12	0.44	2.7	1.4	0.1	0.1	0.06	0.32	0.82
Summary	18.72	63.5	41.3	10.3	3.2	9.97	16.13	24.88

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 1981-2010**

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

Station: **LOGDEPOLE, NE US**

GHCND:USC00254900
 Elev: 3832 ft. Lat: 41.149° N Lon: 102.636° 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	1.9	1.6	0.5	0.2	0.1	11.0	7.1	4.3	0.5	0.5	4.0	8.0
2	5.4	2.5	2.3	0.8	0.1	-7777	5.5	2.6	1.5	0.1	1.0	3.5	8.0
3	7.0	2.8	2.6	1.0	0.2	-7777	2.8	1.5	0.6	0.0	3.0	6.0	10.0
4	3.2	1.2	1.2	0.5	0.1	0.0	0.8	0.3	-7777	0.0	0.0	2.0	4.0
5	0.2	0.1	0.1	-7777	0.0	0.0	0.1	-7777	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	0.3	0.1	0.1	-7777	-7777	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	0.6	0.3	0.3	0.1	0.0	0.0	0.3	0.1	-7777	0.0	0.0	0.0	0.0
11	5.1	1.7	1.7	0.7	0.3	0.1	2.8	1.8	0.6	0.2	1.0	4.0	6.0
12	6.9	2.5	2.2	0.8	0.4	0.1	9.4	7.6	5.6	1.9	0.0	5.0	10.0
Summary	33.1	13.1	12.1	4.4	1.3	0.3	32.8	21.0	12.6	2.7	5.5	24.5	46.0

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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: **LOGDEPOLE, NE US**

GHCND:USC00254900
Elev: 3832 ft. Lat: 41.149° N Lon: 102.636° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	20	91	243	537	837	1091	1019	663	320	70	8
45	1	4	37	143	390	687	936	865	516	199	29	1
50	-7777	-7777	11	72	258	538	781	710	375	103	8	-7777
55	0	-7777	2	29	149	393	626	556	247	41	1	0
60	0	0	-7777	8	69	258	472	403	140	12	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	19	36	103	195	342	522	690	648	427	247	79	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	8	28	119	362	899	1736	2827	3846	4509	4829	4899	4907
45	1	5	42	185	575	1262	2198	3063	3579	3778	3807	3808
50	-7777	-7777	11	83	341	879	1660	2370	2745	2848	2856	-7777
55	0	-7777	2	31	180	573	1199	1755	2002	2043	2044	2044
60	0	0	-7777	8	77	335	807	1210	1350	1362	-7777	1362
Growing Degree Units for Corn (Monthly)												
50/86	19	55	158	353	695	1217	1907	2555	2982	3229	3308	3327

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: **CHAMBERS, NE US**

GHCND:USC00251590
Elev: 2129 ft. Lat: 42.203° N Lon: 98.747° 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	12.0	23.1	6.7	5.8	6.1	0	0	0	0	0	0	990	1052	1145	1300	0.0	0.0	4.7	13.3	30.3	6.3
2	37.7	15.0	26.3	7.1	6.1	6.4	-7777	-7777	-7777	-7777	0	0	802	858	942	1082	0.0	0.0	6.3	9.8	26.9	3.8
3	47.7	24.5	36.1	5.5	3.6	4.3	6	4	2	-7777	-7777	-7777	592	652	742	896	0.0	0.0	14.4	4.4	23.8	0.6
4	59.5	35.9	47.7	4.9	3.2	3.7	47	34	20	6	2	1	266	313	389	526	0.0	0.2	22.4	0.6	9.9	0.0
5	69.9	46.8	58.3	3.5	2.8	2.9	169	131	83	32	8	4	65	89	135	238	0.0	0.6	29.8	0.0	0.9	0.0
6	79.7	57.0	68.3	3.5	3.0	3.0	405	348	266	148	63	40	4	7	16	47	0.1	3.4	30.0	0.0	0.0	0.0
7	85.4	62.0	73.7	3.4	2.1	2.6	580	518	425	277	149	108	-7777	-7777	1	7	0.7	9.1	31.0	0.0	0.0	0.0
8	83.5	60.3	71.9	3.6	2.4	2.8	525	464	373	230	113	78	1	2	5	16	0.4	6.1	31.0	0.0	0.0	0.0
9	75.2	49.8	62.5	3.8	2.5	2.7	259	212	152	74	27	16	34	48	77	149	0.0	2.1	29.6	0.0	0.6	0.0
10	62.3	36.7	49.5	4.1	2.6	3.0	54	37	20	5	1	-7777	225	270	345	486	0.0	0.3	25.3	0.3	8.8	0.0
11	46.9	24.5	35.7	6.6	4.1	5.1	5	3	1	-7777	0	0	584	642	730	879	0.0	0.0	13.0	5.1	23.4	0.7
12	34.9	13.7	24.3	7.0	6.1	6.4	0	0	0	0	0	0	951	1013	1106	1261	0.0	0.0	4.7	12.4	30.5	4.2
Summary	59.7	36.5	48.1	5.0	3.7	4.1	2050	1751	1342	772	363	247	4514	4946	5633	6887	1.2	21.8	242.2	45.9	155.1	15.6

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1981-2010**

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

Station: **CHAMBERS, NE US**

GHCND:USC00251590

Elev: 2129 ft. Lat: 42.203° N Lon: 98.747° 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	0.48	2.8	1.4	0.3	0.0	0.13	0.36	0.70
2	0.66	3.0	1.8	0.4	-7777	0.34	0.52	0.74
3	1.56	5.0	3.9	1.3	0.3	0.91	1.18	2.17
4	2.87	8.4	5.8	1.9	0.7	1.66	2.58	3.46
5	3.91	9.1	7.0	2.6	1.1	2.89	3.86	4.66
6	3.85	9.5	6.9	2.6	0.9	2.93	3.45	4.70
7	3.10	7.7	5.4	2.2	0.9	1.81	3.00	4.15
8	3.02	6.8	4.7	2.0	0.7	1.42	2.65	4.57
9	2.51	6.2	4.2	1.6	0.7	1.22	2.31	3.20
10	2.47	6.1	4.3	1.8	0.7	0.91	2.23	3.50
11	1.24	3.6	2.5	0.7	0.2	0.43	1.11	2.10
12	0.83	3.8	2.3	0.3	0.1	0.41	0.60	1.00
Summary	26.50	72.0	50.2	17.7	6.3	15.06	23.85	34.95

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 151 Patton Avenue
 Asheville, North Carolina 28801
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Station: **CHAMBERS, NE US**

GHCND:USC00251590
 Elev: 2129 ft. Lat: 42.203° N Lon: 98.747° 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	1.6	0.7	0.4	0.1	@	@	@	@	1.0	3.7	7.3
2	5.9	2.5	1.8	0.8	0.4	-7777	@	@	@	@	3.0	5.0	8.5
3	7.7	2.1	1.7	1.1	0.5	0.1	@	@	@	@	2.2	5.0	8.3
4	4.5	1.3	1.2	0.5	0.3	0.1	@	@	@	@	0.0	1.3	6.5
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	0.2	0.1	0.1	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	1.5	0.6	0.5	0.2	0.1	-7777	@	@	@	@	0.0	0.0	1.0
11	4.1	2.0	1.7	0.6	0.3	-7777	@	@	@	@	1.2	2.9	6.0
12	7.8	3.0	2.4	0.9	0.4	-7777	@	@	@	@	3.6	7.7	10.0
Summary	36.3	14.1	11.0	4.8	2.4	0.3	9999	9999	9999	9999	11.0	25.6	47.6

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.
 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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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: **CHAMBERS, NE US**

GHCND:USC00251590
Elev: 2129 ft. Lat: 42.203° N Lon: 98.747° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	19	91	272	570	850	1045	989	675	326	84	8
45	2	5	43	170	420	700	889	834	529	209	43	1
50	-7777	1	17	94	283	551	735	679	388	118	17	-7777
55	0	-7777	6	47	169	405	580	525	259	54	5	0
60	0	-7777	2	20	83	266	425	373	152	20	1	0
Growing Degree Units for Corn (Monthly)												
50/86	15	25	78	174	334	542	691	649	419	212	68	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	28	119	391	961	1811	2856	3845	4520	4846	4930	4938
45	2	7	50	220	640	1340	2229	3063	3592	3801	3844	3845
50	-7777	1	18	112	395	946	1681	2360	2748	2866	2883	-7777
55	0	-7777	6	53	222	627	1207	1732	1991	2045	2050	2050
60	0	-7777	2	22	105	371	796	1169	1321	1341	1342	1342
Growing Degree Units for Corn (Monthly)												
50/86	15	40	118	292	626	1168	1859	2508	2927	3139	3207	3220

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: **IMPERIAL MUNICIPAL AIRPORT, NE US**

GHCND:USW00024091
Elev: 3268 ft. Lat: 40.510° N Lon: 101.620° 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	15.5	28.3	5.6	3.5	4.3	0	0	0	0	0	0	828	890	983	1138	0.0	0.0	8.8	8.4	30.6	2.1
2	44.5	18.6	31.5	6.5	3.6	4.8	-7777	0	0	0	0	0	656	712	796	936	0.0	0.0	9.1	4.8	27.2	1.0
3	54.1	25.6	39.8	4.0	3.6	3.5	6	3	1	0	0	0	475	535	626	780	0.0	0.0	19.9	1.5	25.5	0.2
4	62.4	34.6	48.5	3.7	1.7	2.4	31	20	8	1	-7777	-7777	226	275	353	496	0.0	0.0	25.7	0.1	10.9	0.0
5	73.3	46.4	59.8	3.6	2.1	2.7	196	156	103	43	13	7	45	67	108	202	0.0	2.0	30.4	0.0	0.5	0.0
6	84.0	56.0	70.0	3.9	2.9	3.2	452	395	310	184	87	60	3	5	11	34	0.9	8.7	30.0	0.0	0.0	0.0
7	91.0	61.8	76.4	3.1	1.7	2.2	663	601	508	356	210	157	-7777	-7777	-7777	2	3.4	17.6	31.0	0.0	0.0	0.0
8	87.8	59.9	73.8	3.8	2.4	2.9	584	522	430	282	150	106	-7777	-7777	1	7	0.7	13.2	31.0	0.0	0.0	0.0
9	79.2	49.7	64.4	3.6	2.4	2.8	300	249	181	91	34	21	17	26	47	107	0.2	4.5	29.7	0.0	0.2	0.0
10	65.1	36.5	50.8	3.8	2.3	2.6	59	40	21	6	2	1	189	232	306	446	0.0	0.6	27.5	0.5	8.1	0.0
11	51.2	24.2	37.7	4.8	3.1	3.7	2	1	-7777	-7777	0	0	521	579	669	819	0.0	0.0	15.6	2.3	24.8	0.0
12	41.2	15.6	28.4	5.6	3.4	4.3	0	0	0	0	0	0	824	886	979	1134	0.0	0.0	8.1	6.8	30.6	2.1
Summary	64.6	37.0	50.8	4.3	2.7	3.3	2293	1987	1562	963	496	352	3784	4207	4879	6101	5.2	46.6	266.8	24.4	158.4	5.4

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-4444: year-round risk of frost-freeze

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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: **IMPERIAL MUNICIPAL AIRPORT, NE US**

GHCND:USW00024091
Elev: 3268 ft. Lat: 40.510° N Lon: 101.620° 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	0.30	@	@	@	@			
2	0.38	@	@	@	@			
3	1.07	@	@	@	@			
4	1.97	@	@	@	@			
5	2.97	@	@	@	@			
6	3.17	@	@	@	@			
7	2.89	@	@	@	@			
8	2.59	@	@	@	@			
9	1.43	@	@	@	@			
10	1.34	@	@	@	@			
11	0.63	@	@	@	@			
12	0.40	@	@	@	@			
Summary	19.14	9999	9999	9999	9999	9999	9999	9999

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Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
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Station: **IMPERIAL MUNICIPAL AIRPORT, NE US**

GHCND:USW00024091
Elev: 3268 ft. Lat: 40.510° N Lon: 101.620° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	24	115	280	616	900	1128	1049	733	356	84	12
45	3	7	54	167	464	750	972	894	585	229	38	3
50	-7777	2	20	83	320	600	818	739	439	129	11	-7777
55	0	-7777	6	31	196	452	663	584	300	59	2	0
60	0	0	1	8	103	310	508	430	181	21	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	32	42	122	202	374	564	722	676	457	249	90	27

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	16	40	155	435	1051	1951	3079	4128	4861	5217	5301	5313
45	3	10	64	231	695	1445	2417	3311	3896	4125	4163	4166
50	-7777	2	22	105	425	1025	1843	2582	3021	3150	3161	-7777
55	0	-7777	6	37	233	685	1348	1932	2232	2291	2293	2293
60	0	0	1	9	112	422	930	1360	1541	1562	-7777	1562
Growing Degree Units for Corn (Monthly)												
50/86	32	74	196	398	772	1336	2058	2734	3191	3440	3530	3557

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: **PLATTSMOUTH 1 E, NE US**

GHCND:USC00256795

Elev: 1004 ft. Lat: 41.027° N Lon: 95.883° 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	0.74	4.0	2.2	0.4	-7777	0.38	0.53	1.14
2	0.80	4.6	2.4	0.3	0.1	0.45	0.70	0.93
3	1.94	6.6	4.3	1.1	0.4	0.93	1.66	3.13
4	3.36	8.7	6.4	2.2	0.8	1.92	3.14	4.43
5	5.13	10.3	7.9	3.5	1.6	3.35	4.85	7.74
6	5.07	8.6	6.8	3.1	1.5	2.48	4.70	6.57
7	3.80	7.9	5.8	2.2	1.1	1.96	3.31	4.74
8	3.52	6.6	5.3	2.4	1.0	1.61	2.37	4.73
9	2.84	5.7	4.3	1.8	1.0	1.18	2.25	3.80
10	2.13	5.7	4.4	1.4	0.5	1.11	1.43	2.72
11	1.55	4.7	3.2	1.1	0.3	0.77	1.33	2.10
12	0.99	4.9	2.5	0.6	-7777	0.45	0.71	1.44
Summary	31.87	78.3	55.5	20.1	8.3	16.59	26.98	43.47

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

Station: **PLATTSMOUTH 1 E, NE US**

GHCND:USC00256795
 Elev: 1004 ft. Lat: 41.027° N Lon: 95.883° 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	6.1	3.3	2.1	0.8	0.3	-7777	13.5	9.5	5.8	1.7	1.3	5.2	9.0
2	6.2	3.4	2.3	0.8	0.2	0.0	11.4	7.5	3.7	0.7	2.5	5.0	9.0
3	4.0	1.8	1.4	0.7	0.2	0.0	3.7	2.2	1.1	0.1	0.3	1.7	6.0
4	0.9	0.4	0.3	0.1	-7777	0.0	0.4	0.2	0.1	0.0	0.0	0.0	1.0
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	0.2	0.2	-7777	-7777	0.0	0.2	0.1	0.1	-7777	0.0	0.0	0.0
11	1.6	1.2	0.9	0.2	-7777	0.0	1.7	0.4	0.1	0.0	0.0	1.0	2.0
12	6.0	3.0	2.4	0.7	0.3	0.0	9.6	6.5	3.6	1.6	2.7	4.5	8.0
Summary	25.3	13.3	9.6	3.3	1.0	0.0	40.5	26.4	14.5	4.1	6.8	17.4	35.0

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

Station: **LAUREL, NE US**

GHCND:USC00254655

Elev: 1490 ft. Lat: 42.426° N Lon: 97.091° 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	0.57	4.8	1.7	0.3	0.0	0.34	0.54	0.73
2	0.68	4.4	1.8	0.2	0.1	0.41	0.58	0.73
3	1.97	7.4	5.0	1.6	0.5	1.12	1.62	2.83
4	3.26	10.1	6.9	2.2	0.8	1.68	2.76	4.31
5	3.98	11.2	7.9	2.6	0.8	2.55	3.81	4.66
6	4.93	9.3	7.1	3.2	1.6	3.18	5.12	6.66
7	3.11	8.7	6.1	2.2	1.1	2.27	2.86	3.84
8	3.09	7.7	5.3	1.9	0.8	1.49	2.68	4.11
9	3.30	7.5	5.1	2.2	0.8	1.81	3.47	4.64
10	2.26	6.2	4.2	1.4	0.6	1.01	1.74	3.11
11	1.64	6.5	3.4	0.9	0.4	0.65	1.26	2.50
12	0.90	5.4	2.6	0.4	0.1	0.51	0.75	0.93
Summary	29.69	89.2	57.1	19.1	7.6	17.02	27.19	39.05

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

Station: **LAUREL, NE US**

GHCND:USC00254655
 Elev: 1490 ft. Lat: 42.426° N Lon: 97.091° 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	3.4	2.1	0.5	0.2	0.1	18.3	11.7	7.7	2.9	1.8	5.5	7.3
2	6.1	2.9	2.0	0.6	0.2	0.1	12.1	7.1	4.7	1.3	2.0	4.0	9.5
3	6.5	3.1	2.5	0.9	0.3	0.0	6.8	4.5	3.0	0.2	2.5	6.0	9.1
4	4.6	1.5	1.3	0.6	0.3	0.1	1.9	1.0	0.4	0.1	0.5	3.5	7.0
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	0.7	0.4	0.3	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.5
11	7.5	3.0	2.3	1.0	0.3	0.1	4.7	1.7	1.0	0.1	3.1	6.0	11.0
12	7.6	4.0	2.9	0.8	0.5	0.0	18.0	10.1	5.7	2.1	4.5	8.5	9.0
Summary	38.6	18.3	13.4	4.5	1.9	0.4	62.1	36.2	22.6	6.7	14.4	33.5	53.4

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

Station: **NEWPORT, NE US**

GHCND:USC00255925

Elev: 2231 ft. Lat: 42.601° N Lon: 99.333° 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	32.3	10.4	21.4	6.7	5.9	6.2	0	0	0	0	0	0	1043	1105	1198	1353	0.0	0.0	3.8	14.6	30.4	7.1
2	36.2	13.8	25.0	6.9	6.3	6.5	-7777	-7777	-7777	0	0	0	840	896	980	1120	0.0	0.0	5.6	10.9	27.0	4.6
3	46.1	22.6	34.4	5.1	3.7	4.2	3	2	-7777	-7777	0	0	644	704	795	950	0.0	0.0	12.8	5.7	25.9	1.0
4	57.5	33.7	45.6	5.0	2.9	3.7	37	26	15	5	1	1	318	368	447	587	0.0	0.2	20.9	1.1	12.4	0.0
5	68.5	45.6	57.1	3.8	2.7	3.0	148	114	72	26	5	2	85	112	163	273	0.0	0.4	29.1	0.0	1.5	0.0
6	78.6	55.3	67.0	3.8	2.8	3.1	366	311	233	124	51	32	7	12	25	66	0.2	3.1	29.9	0.0	0.0	0.0
7	85.5	60.8	73.2	3.6	2.3	2.8	563	501	410	264	141	102	-7777	1	3	12	1.2	9.7	31.0	0.0	0.0	0.0
8	83.8	58.6	71.2	3.4	2.4	2.8	504	443	355	217	105	72	2	3	8	24	0.5	7.4	31.0	0.0	0.0	0.0
9	74.4	48.2	61.3	3.7	2.5	2.8	235	193	137	68	25	14	46	64	98	179	-7777	2.3	29.4	0.0	1.2	0.0
10	60.8	34.6	47.7	4.0	2.6	2.9	43	29	15	3	-7777	-7777	269	317	396	540	0.0	0.2	24.1	0.4	11.3	0.0
11	44.9	22.3	33.6	6.8	4.4	5.4	3	1	-7777	-7777	0	0	645	703	792	942	0.0	0.0	11.6	6.3	25.0	1.1
12	33.3	11.8	22.6	6.9	6.1	6.4	-7777	-7777	0	0	0	0	1006	1068	1161	1316	0.0	0.0	3.7	13.5	30.5	5.5
Summary	58.5	34.8	46.7	5.0	3.7	4.2	1902	1620	1237	707	328	223	4905	5353	6066	7362	1.9	23.3	232.9	52.5	165.2	19.3

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

Station: **NEWPORT, NE US**

GHCND:USC00255925

Elev: 2231 ft. Lat: 42.601° N Lon: 99.333° 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	0.54	5.1	1.4	0.2	0.1	0.31	0.45	0.60
2	0.69	5.6	2.2	0.1	0.0	0.42	0.56	0.80
3	1.52	7.3	3.8	0.9	0.2	0.87	1.15	2.25
4	2.80	10.3	6.0	1.7	0.4	1.55	2.51	3.61
5	3.95	11.7	7.1	2.7	1.1	2.90	3.85	5.14
6	3.95	11.8	6.8	2.6	1.0	2.44	3.16	5.51
7	3.24	10.2	5.7	2.2	0.9	1.80	3.08	4.38
8	2.70	8.7	4.6	1.7	0.6	1.69	2.45	3.43
9	2.66	8.1	4.5	1.8	0.9	1.43	2.21	3.56
10	2.23	7.1	4.2	1.4	0.6	0.84	1.94	3.27
11	0.99	5.6	2.5	0.6	0.1	0.36	0.98	1.45
12	0.66	5.1	2.0	0.2	0.1	0.25	0.49	0.76
Summary	25.93	96.6	50.8	16.1	6.0	14.86	22.83	34.76

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Station: **NEWPORT, NE US**

GHCND:USC00255925

Elev: 2231 ft. Lat: 42.601° N Lon: 99.333° 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	6.0	4.8	1.7	0.5	0.2	-7777	16.3	10.7	7.6	3.4	2.8	4.4	7.9
2	6.6	4.5	2.2	0.8	0.2	0.0	12.7	9.4	6.0	1.9	2.6	5.3	8.3
3	8.2	4.4	2.4	1.1	0.4	-7777	7.9	4.6	2.5	0.8	3.8	6.4	10.0
4	5.8	2.1	1.4	0.8	0.5	0.1	2.7	1.5	0.8	0.1	0.2	4.0	9.8
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	0.2	0.1	0.1	-7777	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	1.9	1.0	0.7	0.3	-7777	0.0	0.8	0.4	0.1	0.0	0.0	0.0	2.0
11	5.9	3.4	1.9	0.6	0.2	0.0	7.1	4.1	2.0	0.7	2.0	4.2	7.6
12	6.9	4.6	2.3	0.7	0.3	0.0	16.0	10.8	6.1	2.7	2.9	5.4	9.8
Summary	41.5	24.9	12.7	4.8	1.8	0.1	63.6	41.5	25.1	9.6	14.3	29.7	55.4

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Station: **NEWPORT, NE US**

GHCND:USC00255925
Elev: 2231 ft. Lat: 42.601° N Lon: 99.333° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	17	75	231	531	809	1027	967	640	285	67	7
45	1	5	34	142	385	659	872	812	496	178	32	1
50	-7777	1	13	77	255	510	718	657	358	97	12	-7777
55	0	-7777	3	37	148	366	563	504	235	43	3	-7777
60	0	-7777	-7777	15	72	233	410	355	137	15	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	11	22	69	154	310	507	671	627	397	194	59	11

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	24	99	330	861	1670	2697	3664	4304	4589	4656	4663
45	1	6	40	182	567	1226	2098	2910	3406	3584	3616	3617
50	-7777	1	14	91	346	856	1574	2231	2589	2686	2698	-7777
55	0	-7777	3	40	188	554	1117	1621	1856	1899	1902	-7777
60	0	-7777	-7777	15	87	320	730	1085	1222	1237	-7777	1237
Growing Degree Units for Corn (Monthly)												
50/86	11	33	102	256	566	1073	1744	2371	2768	2962	3021	3032

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: **HASKELL AGRICULTURAL LAB, NE US**

GHCND:USC00253652
 Elev: 1460 ft. Lat: 42.380° N Lon: 96.958° 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	30.9	9.2	20.1				0	0	0	0	0	0	1083	1145	1238	1393	0.0	0.0	0.7	14.6	30.6	7.4
2	35.8	13.1	24.5				0	0	0	0	0	0	855	911	995	1135	0.0	0.0	2.7	10.7	27.3	4.8
3	47.0	22.1	34.6				1	1	-7777	0	0	0	635	697	789	944	0.0	0.0	12.3	2.0	26.4	1.6
4	61.1	33.6	47.4				20	13	6	1	0	0	250	302	386	531	0.0	0.0	26.3	0.0	13.0	0.0
5	72.0	47.0	59.5				171	125	72	29	10	5	32	47	87	199	0.0	1.0	31.0	0.0	0.0	0.0
6	81.5	58.0	69.8				442	383	294	160	52	24	-7777	-7777	2	18	0.0	1.0	30.0	0.0	0.0	0.0
7	85.4	62.3	73.9				584	522	429	277	136	88	0	0	-7777	3	0.0	5.3	31.0	0.0	0.0	0.0
8	83.6	60.1	71.9				522	460	369	221	94	59	-7777	-7777	2	8	0.0	1.8	31.0	0.0	0.0	0.0
9	76.1	49.1	62.6				242	192	129	54	16	9	14	24	51	126	0.0	0.5	30.0	0.0	0.3	0.0
10	63.5	36.1	49.8				47	32	16	5	-7777	0	208	255	332	476	0.0	0.0	26.3	0.0	10.9	0.0
11	46.6	23.8	35.2				-7777	-7777	0	0	0	0	594	654	744	894	0.0	0.0	10.3	1.5	25.1	0.0
12	33.1	11.7	22.4				0	0	0	0	0	0	1010	1072	1165	1320	0.0	0.0	1.3	14.6	31.0	2.8
Summary	59.7	35.5	47.6	9999	9999	9999	2029	1728	1315	747	308	185	4681	5107	5791	7047	0.0	9.6	232.9	43.4	164.6	16.6

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Asheville, North Carolina 28801
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Station: **HASKELL AGRICULTURAL LAB, NE US**

GHCND:USC00253652
Elev: 1460 ft. Lat: 42.380° N Lon: 96.958° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	1	7	47	244	604	892	1049	986	678	318	52	2
45	-7777	2	17	137	450	742	894	831	528	197	22	-7777
50	0	0	4	60	304	591	739	676	380	106	5	-7777
55	0	0	1	20	171	442	584	522	242	47	-7777	0
60	0	0	-7777	6	72	294	429	369	129	16	0	0
Growing Degree Units for Corn (Monthly)												
50/86	1	7	51	180	357	584	716	665	431	222	45	3

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	1	8	55	299	903	1795	2844	3830	4508	4826	4878	4880
45	-7777	2	19	156	606	1348	2242	3073	3601	3798	3820	-7777
50	0	0	4	64	368	959	1698	2374	2754	2860	2865	-7777
55	0	0	1	21	192	634	1218	1740	1982	2029	-7777	2029
60	0	0	-7777	6	78	372	801	1170	1299	1315	1315	1315
Growing Degree Units for Corn (Monthly)												
50/86	1	8	59	239	596	1180	1896	2561	2992	3214	3259	3262

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: **WAHOO, NE US**

GHCND:USC00258905

Elev: 1220 ft. Lat: 41.221° N Lon: 96.622° 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	12.5	22.8	6.8	5.4	5.9	0	0	0	0	0	0	997	1059	1151	1306	0.0	0.0	3.4	14.2	30.5	5.2
2	38.0	16.9	27.5	6.3	5.5	5.7	-7777	-7777	-7777	0	0	0	772	827	911	1051	0.0	0.0	6.0	9.5	25.8	2.5
3	49.8	26.6	38.2	5.0	3.3	3.8	10	6	3	1	-7777	-7777	531	589	679	831	0.0	0.0	15.3	2.7	21.9	0.4
4	62.5	38.4	50.5	4.6	3.0	3.5	68	51	31	12	3	2	205	248	318	449	0.0	0.3	24.7	0.0	7.3	0.0
5	72.9	49.3	61.1	3.5	3.3	3.2	224	179	121	50	14	8	35	52	87	171	0.0	0.8	30.8	0.0	0.3	0.0
6	82.9	59.9	71.4	3.2	2.8	2.8	493	434	348	216	111	80	1	2	6	24	0.2	5.8	30.0	0.0	0.0	0.0
7	86.9	64.6	75.8	3.0	2.4	2.5	643	581	488	336	196	149	0	0	-7777	3	0.8	11.1	31.0	0.0	0.0	0.0
8	84.5	62.6	73.5	3.6	3.2	3.2	575	513	421	275	149	110	-7777	-7777	1	10	0.4	7.2	31.0	0.0	0.0	0.0
9	77.5	52.4	64.9	3.4	2.9	2.8	317	267	198	108	46	30	19	28	50	109	0.0	2.9	29.9	0.0	0.4	0.0
10	64.8	39.7	52.3	3.7	2.9	2.9	81	58	33	10	2	1	166	205	273	406	0.0	0.1	27.8	0.1	6.9	0.0
11	48.6	27.0	37.8	5.9	3.9	4.7	7	4	1	-7777	0	0	523	580	667	816	0.0	0.0	13.9	3.0	20.6	0.4
12	35.7	15.4	25.5	6.3	6.0	5.9	0	-7777	0	0	0	0	913	975	1068	1223	0.0	0.0	4.0	10.9	30.0	2.9
Summary	61.4	38.8	50.1	4.6	3.7	3.9	2418	2093	1644	1008	521	380	4162	4565	5211	6399	1.4	28.2	247.8	40.4	143.7	11.4

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www.ncdc.noaa.gov

Station: **WAHOO, NE US**

GHCND:USC00258905

Elev: 1220 ft. Lat: 41.221° N Lon: 96.622° 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	3.5	2.3	0.2	0.0	0.34	0.57	0.86
2	0.78	3.6	2.2	0.5	0.0	0.33	0.74	1.13
3	2.08	5.9	4.2	1.2	0.4	0.89	1.93	3.24
4	3.08	8.9	6.4	2.2	0.5	1.98	2.79	4.12
5	4.52	11.7	8.8	3.2	1.1	2.91	4.29	5.42
6	4.74	9.6	7.5	3.5	1.4	2.32	3.97	7.05
7	3.54	8.1	5.7	2.6	1.0	1.93	3.19	4.51
8	4.53	8.5	6.3	2.5	1.4	2.07	3.74	6.87
9	3.26	6.6	5.1	2.1	1.0	1.63	2.74	3.87
10	2.37	6.1	4.8	1.3	0.6	1.22	2.25	2.89
11	1.84	5.5	4.1	1.5	0.5	0.90	1.33	2.64
12	1.09	4.0	2.4	0.4	-7777	0.53	0.82	1.02
Summary	32.43	82.0	59.8	21.2	7.9	17.05	28.36	43.62

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Station: **WAHOO, NE US**

GHCND:USC00258905
 Elev: 1220 ft. Lat: 41.221° N Lon: 96.622° 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	6.5	3.3	2.4	0.8	0.3	0.0	@	@	@	@	3.0	5.6	7.8
2	5.4	2.7	2.3	0.7	0.4	0.0	@	@	@	@	2.0	5.5	8.0
3	3.8	1.7	1.3	0.6	0.3	0.1	@	@	@	@	0.0	2.0	6.0
4	2.0	0.6	0.6	0.3	0.2	0.0	@	@	@	@	0.0	0.0	3.0
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	0.7	0.2	0.2	0.1	-7777	0.0	@	@	@	@	0.0	0.0	0.0
11	3.0	1.5	1.4	0.4	0.1	0.0	@	@	@	@	0.5	1.3	4.0
12	6.4	3.1	2.5	0.9	0.4	0.0	@	@	@	@	3.2	4.5	6.2
Summary	27.8	13.1	10.7	3.8	1.7	0.1	9999	9999	9999	9999	8.7	18.9	35.0

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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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: **WAHOO, NE US**

GHCND:USC00258905

Elev: 1220 ft. Lat: 41.221° N Lon: 96.622° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	21	115	335	654	942	1108	1040	748	395	100	7
45	1	6	59	220	500	792	953	885	600	267	51	2
50	-7777	1	26	128	353	642	798	730	455	159	21	-7777
55	0	-7777	10	68	224	493	643	575	317	81	7	0
60	0	-7777	3	31	121	348	488	421	198	33	1	0
Growing Degree Units for Corn (Monthly)												
50/86	10	22	90	212	395	618	746	696	478	249	71	10

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	26	141	476	1130	2072	3180	4220	4968	5363	5463	5470
45	1	7	66	286	786	1578	2531	3416	4016	4283	4334	4336
50	-7777	1	27	155	508	1150	1948	2678	3133	3292	3313	-7777
55	0	-7777	10	78	302	795	1438	2013	2330	2411	2418	2418
60	0	-7777	3	34	155	503	991	1412	1610	1643	1644	1644
Growing Degree Units for Corn (Monthly)												
50/86	10	32	122	334	729	1347	2093	2789	3267	3516	3587	3597

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: **BRIDGEPORT, NE US**

GHCND:USC00251145
 Elev: 3665 ft. Lat: 41.668° N Lon: 103.104° 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	41.4	15.8	28.6	5.5	4.4	4.6	0	0	0	0	0	0	818	880	973	1128	0.0	0.0	8.0	6.6	29.9	2.7
2	45.7	18.8	32.2	5.5	4.7	4.8	-7777	0	0	0	0	0	637	693	777	917	0.0	0.0	11.1	3.7	26.2	2.1
3	54.8	26.0	40.4	4.4	2.6	3.2	3	1	-7777	-7777	0	0	456	516	608	763	0.0	0.0	20.8	1.5	23.8	0.3
4	64.1	33.4	48.8	4.6	2.6	3.2	38	25	12	3	-7777	-7777	226	273	349	490	0.0	0.2	26.3	0.2	12.6	0.0
5	74.1	44.2	59.2	3.7	2.2	2.6	180	140	89	32	7	3	52	73	115	214	-7777	1.3	30.5	0.0	1.6	0.0
6	83.8	53.2	68.5	3.6	2.6	2.8	409	352	270	150	65	42	4	7	15	45	0.5	8.2	30.0	0.0	0.0	0.0
7	91.3	59.5	75.4	3.3	2.4	2.7	632	570	478	326	185	135	-7777	-7777	1	4	3.1	18.3	31.0	0.0	0.0	0.0
8	89.1	57.7	73.4	2.9	2.3	2.4	571	509	417	268	135	92	-7777	1	2	8	0.9	15.1	31.0	0.0	0.0	0.0
9	80.0	47.6	63.8	3.3	2.1	2.4	288	238	170	81	27	14	24	34	56	117	0.0	5.0	29.8	0.0	1.0	0.0
10	65.7	34.5	50.1	4.1	2.5	2.8	44	28	13	2	-7777	-7777	196	242	320	464	0.0	0.1	28.1	0.2	11.1	0.1
11	51.1	23.9	37.5	5.8	3.2	4.3	1	-7777	-7777	0	0	0	526	585	675	825	0.0	0.0	16.0	2.3	24.6	0.6
12	40.5	14.9	27.7	5.4	4.6	4.9	-7777	0	0	0	0	0	846	908	1001	1156	0.0	0.0	7.1	7.1	30.5	3.4
Summary	65.1	35.8	50.5	4.3	3.0	3.4	2166	1863	1449	862	419	286	3785	4212	4892	6131	4.5	48.2	269.7	21.6	161.3	9.2

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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: **BRIDGEPORT, NE US**

GHCND:USC00251145
Elev: 3665 ft. Lat: 41.668° N Lon: 103.104° 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	0.29	3.3	1.0	-7777	0.0	0.10	0.27	0.50
2	0.42	3.5	1.5	-7777	0.0	0.10	0.24	0.68
3	0.87	5.2	2.7	0.4	-7777	0.37	0.66	1.26
4	1.89	7.1	4.1	1.3	0.3	0.80	1.64	2.94
5	2.98	9.7	6.7	2.0	0.6	1.57	2.92	4.21
6	3.03	8.4	6.1	2.2	0.8	1.47	2.94	4.52
7	2.54	6.9	4.7	1.8	0.5	1.39	2.17	3.17
8	2.08	5.5	4.0	1.3	0.6	0.74	2.14	2.71
9	1.54	5.7	3.8	1.0	0.2	0.72	1.34	2.17
10	1.15	5.0	3.0	0.6	0.1	0.47	1.05	1.43
11	0.59	3.3	1.7	0.2	-7777	0.24	0.50	0.73
12	0.40	3.4	1.1	0.2	-7777	0.10	0.29	0.46
Summary	17.78	67.0	40.4	11.0	3.1	8.07	16.16	24.78

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Station: **BRIDGEPORT, NE US**

GHCND:USC00251145
Elev: 3665 ft. Lat: 41.668° N Lon: 103.104° 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	5.7	2.4	2.3	0.9	0.3	0.0	9.1	5.8	2.9	0.6	1.5	6.5	9.0
2	7.2	2.7	2.6	1.2	0.3	0.0	5.8	3.8	2.3	0.5	3.0	5.0	12.0
3	6.5	2.6	2.5	0.9	0.3	0.0	2.9	1.7	1.1	0.3	3.0	5.0	8.0
4	3.5	1.1	1.0	0.5	0.2	-7777	0.8	0.5	0.2	-7777	0.0	3.0	5.9
5	0.3	0.1	0.1	0.1	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	0.6	0.1	0.1	0.1	0.1	0.0	0.1	0.1	-7777	0.0	0.0	0.0	0.0
10	1.2	0.5	0.4	0.2	0.1	0.0	0.3	0.1	-7777	0.0	0.0	0.0	2.0
11	5.2	2.0	1.8	0.6	0.4	-7777	3.5	2.3	1.8	0.4	1.0	3.0	8.0
12	7.9	2.8	2.8	1.1	0.6	0.1	9.4	6.9	5.0	1.8	3.0	7.0	11.0
Summary	38.1	14.3	13.6	5.6	2.3	0.1	31.9	21.2	13.3	3.6	11.5	29.5	55.9

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

Station: BRIDGEPORT, NE US

GHCND:USC00251145
Elev: 3665 ft. Lat: 41.668° N Lon: 103.104° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	29	122	288	594	855	1097	1035	715	333	85	10
45	2	8	53	175	443	705	942	880	567	208	36	2
50	-7777	1	16	92	302	556	787	725	424	108	10	-7777
55	0	-7777	3	38	180	409	632	571	288	44	1	-7777
60	0	0	-7777	12	89	270	478	417	170	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	23	45	125	224	380	537	690	658	461	255	89	20

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	12	41	163	451	1045	1900	2997	4032	4747	5080	5165	5175
45	2	10	63	238	681	1386	2328	3208	3775	3983	4019	4021
50	-7777	1	17	109	411	967	1754	2479	2903	3011	3021	-7777
55	0	-7777	3	41	221	630	1262	1833	2121	2165	2166	-7777
60	0	0	-7777	12	101	371	849	1266	1436	1449	-7777	1449
Growing Degree Units for Corn (Monthly)												
50/86	23	68	193	417	797	1334	2024	2682	3143	3398	3487	3507

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: **HOMER 3 NE, NE US**

GHCND:USC00253950

Elev: 1083 ft. Lat: 42.337° N Lon: 96.432° 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	2.8	1.5	0.8	0.5	0.31	0.60	0.98
2	0.67	2.7	1.4	0.4	0.3	0.24	0.60	0.96
3	2.18	5.7	3.8	1.5	0.5	0.93	1.57	3.34
4	3.29	7.8	5.7	2.3	1.0	2.08	2.79	4.27
5	3.84	9.4	7.2	3.2	1.0	2.38	3.81	5.25
6	4.17	8.4	6.7	2.7	1.3	2.36	3.91	5.81
7	3.40	6.6	4.9	2.3	0.9	2.04	3.28	4.40
8	3.29	7.1	5.2	2.4	0.8	1.81	3.20	4.73
9	2.82	6.5	4.5	1.9	0.7	1.61	2.69	3.83
10	2.23	5.4	3.9	1.5	0.5	0.70	1.60	3.26
11	1.39	4.7	2.8	0.9	0.2	0.63	1.17	2.08
12	0.96	3.2	1.6	0.6	0.3	0.33	0.54	1.27
Summary	29.26	70.3	49.2	20.5	8.0	15.42	25.76	40.18

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

Station: **HOMER 3 NE, NE US**

GHCND:USC00253950
 Elev: 1083 ft. Lat: 42.337° N Lon: 96.432° 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	2.5	1.7	0.5	0.1	0.0	@	@	@	@	1.5	3.0	5.1
2	6.4	2.2	1.9	0.8	0.4	0.1	@	@	@	@	1.5	5.5	10.5
3	6.3	2.2	1.8	0.8	0.4	-7777	@	@	@	@	1.0	6.2	9.9
4	1.8	0.7	0.6	0.2	0.1	0.0	@	@	@	@	0.0	0.0	3.0
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	0.2	0.2	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
11	3.5	1.3	1.1	0.5	0.2	0.0	@	@	@	@	0.0	1.5	7.0
12	5.9	3.2	2.5	0.7	0.3	0.0	@	@	@	@	1.5	5.0	9.0
Summary	28.4	12.3	9.8	3.5	1.5	0.1	9999	9999	9999	9999	5.5	21.2	44.5

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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: **CREIGHTON, NE US**

GHCND:USC00251990
 Elev: 1660 ft. Lat: 42.460° N Lon: 97.905° 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	32.1	10.3	21.2	6.5	5.9	6.1	0	0	0	0	0	0	1048	1110	1203	1358	0.0	0.0	2.7	14.5	30.6	7.2
2	36.6	14.2	25.4	7.3	5.8	6.4	-7777	-7777	-7777	0	0	0	829	885	969	1109	0.0	0.0	5.7	10.7	26.5	4.4
3	47.9	23.6	35.8	5.6	3.9	4.4	5	3	1	-7777	-7777	-7777	602	661	753	907	0.0	0.0	14.1	4.5	25.2	0.9
4	60.8	35.2	48.0	5.1	3.3	3.9	51	38	23	8	2	1	261	308	383	518	0.0	0.3	23.7	0.6	11.9	0.0
5	71.8	48.2	60.0	3.4	3.1	3.1	203	162	109	48	15	8	48	69	109	203	0.0	0.9	30.5	0.0	0.7	0.0
6	81.4	58.2	69.8	3.4	2.7	2.9	446	388	304	178	83	56	2	4	10	34	0.2	4.0	30.0	0.0	0.0	0.0
7	86.4	62.9	74.6	3.4	2.3	2.6	609	547	454	304	168	122	0	0	-7777	5	0.5	9.1	31.0	0.0	0.0	0.0
8	84.4	60.3	72.3	3.2	2.4	2.6	538	477	385	241	119	81	-7777	1	3	13	0.2	6.9	31.0	0.0	0.0	0.0
9	76.3	50.1	63.2	3.3	2.2	2.4	273	225	161	81	30	17	27	39	66	135	0.0	2.0	29.9	0.0	0.8	0.0
10	63.4	37.3	50.3	4.0	2.4	2.6	60	43	24	7	1	-7777	204	249	323	461	0.0	0.2	26.9	0.2	9.0	0.0
11	46.3	24.5	35.4	7.1	4.3	5.5	3	2	-7777	-7777	0	0	591	650	738	888	0.0	0.0	12.1	5.0	22.9	0.7
12	32.6	12.8	22.7	6.5	6.1	6.2	0	0	0	0	0	0	1001	1063	1156	1311	0.0	0.0	3.0	13.7	30.2	5.0
Summary	60.0	36.5	48.2	4.9	3.7	4.1	2188	1885	1461	867	418	285	4613	5039	5713	6942	0.9	23.4	240.6	49.2	157.8	18.2

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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: **CREIGHTON, NE US**

GHCND:USC00251990

Elev: 1660 ft. Lat: 42.460° N Lon: 97.905° 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	0.56	4.2	1.6	0.3	0.0	0.31	0.50	0.84
2	0.77	5.0	2.2	0.3	0.1	0.33	0.59	0.95
3	1.83	6.9	4.1	1.0	0.4	0.92	1.44	2.17
4	2.86	8.3	5.5	2.1	0.6	1.14	2.68	4.43
5	4.02	10.4	7.3	2.7	1.1	3.24	3.69	4.59
6	4.06	9.8	7.1	2.7	1.0	2.52	3.68	4.95
7	3.27	7.7	5.7	2.0	0.8	1.45	2.74	4.35
8	3.40	7.6	5.0	1.9	0.9	1.57	3.10	4.87
9	2.71	6.8	4.6	1.8	0.8	1.30	2.72	3.33
10	2.16	6.1	4.0	1.4	0.5	0.65	1.32	3.62
11	1.21	5.0	2.8	0.8	0.2	0.41	0.86	1.61
12	0.78	4.8	2.3	0.3	0.1	0.26	0.54	0.88
Summary	27.63	82.6	52.2	17.3	6.5	14.10	23.86	36.59

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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Station: **CREIGHTON, NE US**

GHCND:USC00251990

Elev: 1660 ft. Lat: 42.460° N Lon: 97.905° 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	2.6	1.9	0.6	0.2	0.0	12.6	8.6	5.7	2.5	1.0	5.0	10.8
2	7.8	2.6	2.1	0.9	0.4	0.0	9.6	6.7	5.0	1.4	2.8	6.1	13.0
3	7.9	2.3	2.0	0.8	0.4	0.0	5.1	2.9	1.8	0.5	3.0	5.5	13.0
4	2.1	0.5	0.5	0.4	0.2	-7777	1.1	0.6	0.3	0.0	0.0	0.0	3.5
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	0.6	0.4	0.3	0.1	-7777	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0
11	2.4	1.6	1.2	0.6	0.2	-7777	1.7	0.8	0.5	0.1	0.0	1.2	4.0
12	6.8	3.2	2.4	0.9	0.3	-7777	12.3	8.1	3.8	1.7	2.3	4.8	8.5
Summary	33.4	13.2	10.4	4.3	1.7	0.0	42.6	27.8	17.2	6.2	9.1	22.6	52.8

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Station: **CREIGHTON, NE US**

GHCND:USC00251990

Elev: 1660 ft. Lat: 42.460° N Lon: 97.905° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	16	86	281	620	894	1074	1003	696	345	78	4
45	1	5	41	177	469	744	919	848	548	224	38	1
50	-7777	1	17	101	325	594	764	693	405	126	14	-7777
55	0	-7777	5	51	203	446	609	538	273	60	3	0
60	0	-7777	1	23	109	304	454	385	161	24	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	9	19	77	190	375	580	720	664	439	227	60	6

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	5	21	107	388	1008	1902	2976	3979	4675	5020	5098	5102
45	1	6	47	224	693	1437	2356	3204	3752	3976	4014	4015
50	-7777	1	18	119	444	1038	1802	2495	2900	3026	3040	-7777
55	0	-7777	5	56	259	705	1314	1852	2125	2185	2188	2188
60	0	-7777	1	24	133	437	891	1276	1437	1461	-7777	1461
Growing Degree Units for Corn (Monthly)												
50/86	9	28	105	295	670	1250	1970	2634	3073	3300	3360	3366

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: **MAX 13 N, NE US**

GHCND:USC00255269

Elev: 3268 ft. Lat: 40.297° N Lon: 101.381° 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	0.37	2.8	0.9	0.0	0.0	0.15	0.31	0.52
2	0.52	3.1	2.0	0.1	0.0	0.19	0.42	0.73
3	1.24	4.3	2.4	0.7	0.3	0.39	0.93	1.87
4	2.23	7.5	5.2	1.9	0.5	1.03	2.01	3.29
5	2.72	7.2	5.1	1.0	0.4	1.69	2.56	3.59
6	3.14	8.4	6.2	2.3	0.8	2.08	2.92	4.38
7	3.23	7.8	5.5	1.9	0.8	1.75	2.61	4.28
8	2.40	6.0	4.5	1.7	0.6	1.15	1.90	3.82
9	1.50	4.7	3.1	1.1	0.4	0.64	1.29	2.32
10	1.73	5.9	3.9	1.2	0.4	0.54	1.43	2.43
11	0.81	3.6	1.9	0.2	0.0	0.34	0.56	1.34
12	0.55	3.6	1.5	0.2	0.0	0.14	0.34	0.77
Summary	20.44	64.9	42.2	12.3	4.2	10.09	17.28	29.34

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Station: **MAX 13 N, NE US**

GHCND:USC00255269
 Elev: 3268 ft. Lat: 40.297° N Lon: 101.381° 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	1.3	0.4	0.0	0.0	7.6	5.5	3.5	1.1	1.2	3.8	5.0
2	5.1	2.3	1.8	0.9	0.1	0.0	5.9	3.7	1.7	0.0	1.6	4.6	8.0
3	3.4	1.8	1.5	0.4	0.2	0.0	2.3	0.9	0.5	0.0	1.6	3.2	5.5
4	2.2	0.8	0.7	0.3	0.3	0.0	0.8	0.3	0.3	0.0	0.0	1.5	4.3
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	0.2	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
10	2.5	0.7	0.6	0.3	0.2	0.1	1.2	0.7	0.4	0.1	0.0	0.0	2.4
11	2.4	1.6	0.9	0.2	0.0	0.0	2.4	1.0	0.3	0.0	1.5	2.6	3.0
12	5.1	2.5	1.8	0.6	0.1	0.1	7.7	4.4	2.6	0.2	1.3	2.9	7.9
Summary	24.3	11.6	8.7	3.1	0.9	0.2	28.0	16.5	9.3	1.4	7.2	18.6	36.1

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

Station: **SCHUYLER, NE US**

GHCND:USC00257640

Elev: 1352 ft. Lat: 41.442° N Lon: 97.066° 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	0.64	4.9	1.7	0.3	0.0	0.26	0.64	0.92
2	0.70	5.6	2.1	0.2	0.1	0.40	0.55	0.91
3	2.02	7.8	4.7	1.3	0.4	0.89	1.74	2.78
4	2.72	8.8	5.6	1.6	0.6	1.66	2.80	3.64
5	4.00	11.5	7.6	2.8	0.9	2.48	3.74	4.34
6	4.58	10.9	7.1	2.7	1.1	2.55	3.69	5.88
7	3.54	9.1	5.9	2.3	1.1	2.13	3.14	4.11
8	3.75	8.7	5.4	2.2	1.0	1.53	2.85	4.69
9	3.08	8.1	5.0	1.8	0.9	1.11	2.72	4.28
10	1.94	6.8	3.7	1.3	0.4	0.80	1.54	2.67
11	1.42	5.7	2.8	1.0	0.4	0.66	1.10	2.27
12	0.82	5.9	2.3	0.5	0.1	0.32	0.71	0.96
Summary	29.21	93.8	53.9	18.0	7.0	14.79	25.22	37.45

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GHCND:USC00257640

Elev: 1352 ft. Lat: 41.442° N Lon: 97.066° 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	7.3	3.8	2.3	0.9	0.4	0.0	13.8	8.1	3.8	0.5	3.2	5.7	9.4
2	7.6	3.4	2.5	0.9	0.4	-7777	11.5	6.1	3.6	0.9	3.5	8.0	10.2
3	6.0	2.2	1.7	0.7	0.4	0.1	4.6	2.2	1.6	0.5	1.1	4.3	9.5
4	1.8	0.5	0.4	0.2	0.1	0.0	0.8	0.5	0.2	0.0	0.0	0.0	2.5
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	-7777	-7777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.8	0.3	0.2	0.1	0.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0
11	3.1	1.7	1.3	0.4	0.1	-7777	2.3	0.8	0.3	0.1	0.0	1.5	5.5
12	7.3	3.9	2.6	0.9	0.3	0.0	12.8	7.4	4.4	0.9	2.9	6.0	10.3
Summary	33.9	15.8	11.0	4.1	1.8	0.1	46.2	25.3	14.0	2.9	10.7	25.5	47.4

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www.ncdc.noaa.gov

Station: **BRIDGEPORT 18 WSW, NE US**

GHCND:USC00251149
 Elev: 4150 ft. Lat: 41.564° N Lon: 103.368° 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	14.7	27.9				0	0	0	0	0	0	840	902	995	1150	0.0	0.0	9.3	7.0	29.6	3.9
2	44.1	16.7	30.4				-7777	-7777	0	0	0	0	689	745	828	968	0.0	0.0	9.2	4.3	27.2	2.4
3	53.1	23.9	38.5				5	2	1	-7777	0	0	516	576	667	822	0.0	0.1	18.1	1.5	26.2	0.5
4	61.3	32.1	46.7				17	9	3	1	-7777	-7777	266	318	402	549	0.0	0.0	24.1	0.4	13.9	0.0
5	71.3	42.6	57.0				136	102	60	19	4	2	76	103	155	269	0.1	0.9	29.9	0.0	2.6	0.0
6	81.9	52.0	67.0				367	312	236	126	51	33	8	14	28	67	1.2	6.7	30.0	0.0	0.0	0.0
7	90.4	58.6	74.5				604	543	451	301	164	118	-7777	1	2	7	3.2	16.7	31.0	0.0	0.0	0.0
8	88.6	56.3	72.5				541	480	390	248	126	86	1	2	4	17	1.8	14.9	31.0	0.0	0.0	0.0
9	78.6	45.2	61.9				239	194	135	63	21	11	32	47	78	156	0.0	5.2	30.0	0.0	0.9	0.0
10	65.5	32.7	49.1				47	30	13	2	-7777	-7777	230	275	351	495	0.0	1.0	27.0	0.3	13.4	0.0
11	51.1	21.8	36.4				2	1	-7777	-7777	0	0	559	618	707	856	0.0	0.0	15.9	2.7	27.1	0.2
12	40.5	13.0	26.8				0	0	0	0	0	0	875	937	1030	1185	0.0	0.0	7.9	7.8	30.3	5.0
Summary	64.0	34.1	49.1	9999	9999	9999	1958	1673	1289	760	366	250	4092	4538	5247	6541	6.3	45.5	263.4	24.0	171.2	12.0

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Station: **BRIDGEPORT 18 WSW, NE US**

GHCND:USC00251149
Elev: 4150 ft. Lat: 41.564° N Lon: 103.368° 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	@	@	@	@			
2	0.46	@	@	@	@			
3	1.01	@	@	@	@			
4	1.64	@	@	@	@			
5	2.75	@	@	@	@			
6	2.84	@	@	@	@			
7	2.47	@	@	@	@			
8	1.89	@	@	@	@			
9	1.42	@	@	@	@			
10	1.06	@	@	@	@			
11	0.57	@	@	@	@			
12	0.46	@	@	@	@			
Summary	16.92	9999	9999	9999	9999	9999	9999	9999

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GHCND:USC00251149
Elev: 4150 ft. Lat: 41.564° N Lon: 103.368° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	22	106	240	528	808	1068	1005	657	315	73	16
45	5	6	49	135	382	658	913	850	510	199	32	3
50	-7777	2	19	60	247	510	759	695	367	107	10	-7777
55	0	-7777	5	17	136	367	604	541	239	47	2	0
60	0	0	1	3	60	236	451	390	135	13	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	29	35	113	190	337	504	669	632	425	254	88	25

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	40	146	386	914	1722	2790	3795	4452	4767	4840	4856
45	5	11	60	195	577	1235	2148	2998	3508	3707	3739	3742
50	-7777	2	21	81	328	838	1597	2292	2659	2766	2776	-7777
55	0	-7777	5	22	158	525	1129	1670	1909	1956	1958	1958
60	0	0	1	4	64	300	751	1141	1276	1289	-7777	1289
Growing Degree Units for Corn (Monthly)												
50/86	29	64	177	367	704	1208	1877	2509	2934	3188	3276	3301

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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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: **BELGRADE, NE US**

GHCND:USC00250734

Elev: 1706 ft. Lat: 41.464° N Lon: 98.074° 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	0.52	@	@	@	@			
2	0.67	@	@	@	@			
3	1.92	@	@	@	@			
4	2.73	@	@	@	@			
5	4.43	@	@	@	@			
6	4.27	@	@	@	@			
7	3.36	@	@	@	@			
8	3.14	@	@	@	@			
9	2.69	@	@	@	@			
10	2.04	@	@	@	@			
11	1.31	@	@	@	@			
12	0.72	@	@	@	@			
Summary	27.80	9999	9999	9999	9999	9999	9999	9999

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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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: **RAVENNA, NE US**

GHCND:USC00257040

Elev: 2031 ft. Lat: 41.032° N Lon: 98.921° 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	35.4	11.4	23.4	6.5	5.1	5.6	-7777	0	0	0	0	0	979	1041	1134	1290	0.0	0.0	4.8	12.2	30.8	5.6
2	38.7	14.8	26.7	6.9	5.0	5.7	-7777	-7777	-7777	0	0	0	791	847	931	1071	0.0	0.0	6.6	9.6	26.9	3.7
3	49.6	23.7	36.7	5.0	3.8	3.9	4	2	1	-7777	0	0	573	633	725	879	0.0	-7777	16.2	3.8	25.1	0.7
4	61.3	34.4	47.8	4.7	3.0	3.5	46	33	19	6	1	-7777	260	307	383	520	0.0	0.2	24.1	0.5	12.4	0.0
5	70.9	47.3	59.1	3.3	3.0	2.9	182	142	92	36	9	4	55	77	120	219	0.0	0.5	30.6	0.0	1.5	0.0
6	80.2	57.6	68.9	3.4	2.7	2.9	420	362	279	159	72	48	3	5	12	42	-7777	3.1	30.0	0.0	0.0	0.0
7	85.1	63.0	74.0	2.9	2.4	2.4	590	528	436	286	152	107	-7777	-7777	-7777	6	0.3	7.3	31.0	0.0	0.0	0.0
8	82.9	60.4	71.6	3.2	2.7	2.8	516	455	365	223	106	71	-7777	1	4	17	0.1	5.1	31.0	0.0	0.0	0.0
9	75.3	49.2	62.3	3.6	2.8	2.9	252	207	146	71	24	14	35	50	79	153	0.0	1.2	29.7	0.0	1.2	0.0
10	63.2	35.8	49.5	3.7	2.6	2.6	50	35	19	5	1	-7777	221	267	344	486	0.0	0.1	26.7	0.3	11.0	0.0
11	47.9	23.1	35.5	6.3	3.8	4.7	2	1	-7777	-7777	0	0	587	646	735	885	0.0	0.0	13.7	4.1	25.2	0.7
12	35.8	12.7	24.2	6.5	5.3	5.7	0	0	0	0	0	0	953	1015	1108	1263	0.0	0.0	4.7	11.5	30.7	4.2
Summary	60.5	36.1	48.3	4.7	3.5	3.8	2062	1765	1357	786	365	244	4457	4889	5575	6831	0.4	17.5	249.1	42.0	164.8	14.9

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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: **RAVENNA, NE US**

GHCND:USC00257040

Elev: 2031 ft. Lat: 41.032° N Lon: 98.921° 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	0.51	3.1	1.6	0.2	0.0	0.23	0.37	0.70
2	0.57	3.5	2.0	0.1	0.0	0.24	0.63	0.77
3	1.79	5.1	3.7	1.2	0.4	0.66	1.61	2.74
4	2.37	6.9	4.7	1.8	0.8	1.05	1.72	3.14
5	4.24	9.7	7.9	2.8	1.1	2.88	4.05	5.09
6	4.79	8.9	7.1	3.1	1.2	2.87	4.08	7.10
7	3.48	6.5	5.2	2.1	0.9	1.23	2.73	5.24
8	3.07	6.3	5.1	2.1	1.0	2.00	3.19	4.05
9	2.02	5.4	4.2	1.4	0.7	0.81	1.61	3.20
10	1.94	5.4	4.0	1.3	0.5	0.74	1.36	2.76
11	1.18	3.7	2.5	0.9	0.3	0.39	0.77	1.63
12	0.58	3.0	1.7	0.4	0.0	0.11	0.39	0.99
Summary	26.54	67.5	49.7	17.4	6.9	13.21	22.51	37.41

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

Station: **RAVENNA, NE US**

GHCND:USC00257040
 Elev: 2031 ft. Lat: 41.032° N Lon: 98.921° 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	2.1	1.8	0.9	0.4	-7777	@	@	@	@	2.0	3.5	6.0
2	5.4	2.1	2.0	0.8	0.2	0.0	@	@	@	@	2.2	5.5	8.3
3	4.4	1.2	1.0	0.6	0.4	0.1	@	@	@	@	0.0	2.9	6.0
4	1.3	0.5	0.4	0.2	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	0.1	-7777	-7777	-7777	0.0	0.0	@	@	@	@	0.0	0.0	0.0
10	0.8	0.3	0.2	0.2	0.1	0.0	@	@	@	@	0.0	0.0	0.0
11	3.8	1.2	0.9	0.6	0.2	-7777	@	@	@	@	0.0	0.8	6.1
12	4.5	2.0	1.9	0.8	0.3	-7777	@	@	@	@	1.0	3.0	6.0
Summary	24.4	9.4	8.2	4.1	1.7	0.1	9999	9999	9999	9999	5.2	15.7	32.4

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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: **RAVENNA, NE US**

GHCND:USC00257040
Elev: 2031 ft. Lat: 41.032° N Lon: 98.921° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	16	90	273	593	867	1055	981	668	323	74	4
45	1	4	41	170	441	717	900	826	521	206	34	1
50	-7777	1	15	95	301	567	745	671	381	113	12	-7777
55	-7777	-7777	4	46	182	420	590	516	252	50	2	0
60	0	-7777	1	19	92	279	436	365	146	19	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	17	26	89	194	358	561	712	652	426	226	71	13

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	7	23	113	386	979	1846	2901	3882	4550	4873	4947	4951
45	1	5	46	216	657	1374	2274	3100	3621	3827	3861	3862
50	-7777	1	16	111	412	979	1724	2395	2776	2889	2901	-7777
55	-7777	-7777	4	50	232	652	1242	1758	2010	2060	2062	2062
60	0	-7777	1	20	112	391	827	1192	1338	1357	-7777	1357
Growing Degree Units for Corn (Monthly)												
50/86	17	43	132	326	684	1245	1957	2609	3035	3261	3332	3345

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

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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: CRESCENT LAKE, NE US

GHCND:USC00252000
Elev: 3819 ft. Lat: 41.761° N Lon: 102.437° 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	40.9	13.4	27.1	5.5	4.6	4.8	-7777	0	0	0	0	0	863	925	1018	1173	0.0	0.0	8.1	7.4	30.0	4.4
2	44.5	16.6	30.6	5.9	4.5	4.9	-7777	-7777	-7777	0	0	0	685	740	824	964	0.0	0.0	10.9	5.2	26.4	3.2
3	53.2	24.4	38.8	4.7	3.4	3.6	6	3	1	-7777	0	0	508	567	658	812	0.0	0.0	18.9	2.4	24.8	0.6
4	62.5	32.6	47.6	4.8	2.5	3.3	39	26	12	2	-7777	-7777	263	309	386	526	0.0	0.2	24.7	0.3	14.3	0.0
5	71.6	42.6	57.1	4.1	2.3	3.0	143	107	65	21	4	2	78	104	155	266	0.0	1.0	30.3	0.0	2.8	0.0
6	81.1	51.6	66.3	3.7	2.9	3.1	350	296	219	112	43	26	10	16	28	72	0.4	5.0	29.9	0.0	-7777	0.0
7	88.7	57.9	73.3	3.3	1.9	2.5	568	506	414	267	141	100	1	1	2	10	2.0	14.5	31.0	0.0	0.0	0.0
8	87.1	56.3	71.7	3.1	2.0	2.2	519	458	367	224	104	68	1	2	5	16	0.7	11.8	31.0	0.0	0.0	0.0
9	78.1	45.6	61.8	3.8	3.0	3.1	248	203	143	68	22	12	42	58	88	162	-7777	4.8	29.5	-7777	2.2	0.0
10	65.2	33.8	49.5	4.1	2.4	2.8	48	32	16	4	1	-7777	218	264	341	484	0.0	0.2	26.8	0.4	12.2	-7777
11	51.5	23.2	37.4	6.4	4.1	5.0	5	2	1	0	0	0	534	592	680	829	0.0	0.0	16.5	2.7	24.3	0.8
12	40.6	13.0	26.8	6.5	5.7	6.0	-7777	-7777	0	0	0	0	874	936	1029	1184	0.0	0.0	8.9	8.1	30.3	4.6
Summary	63.8	34.3	49.0	4.7	3.3	3.7	1926	1633	1238	698	315	208	4077	4514	5214	6498	3.1	37.5	266.5	26.5	167.3	13.6

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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: CRESCENT LAKE, NE US

GHCND:USC00252000

Elev: 3819 ft. Lat: 41.761° N Lon: 102.437° 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	0.29	3.3	1.1	0.0	0.0	0.10	0.28	0.39
2	0.42	4.0	1.3	0.1	0.0	0.16	0.29	0.57
3	0.91	6.2	2.7	0.3	0.1	0.43	0.60	1.52
4	1.90	8.0	4.3	1.3	0.3	0.90	1.55	2.83
5	2.85	10.8	6.2	2.0	0.5	2.02	2.27	3.37
6	2.93	9.9	6.1	2.0	0.6	1.64	2.60	3.74
7	2.48	8.8	5.2	1.8	0.4	0.90	2.31	3.39
8	2.14	8.3	4.1	1.4	0.5	1.07	1.98	3.42
9	1.68	7.7	3.9	1.2	0.2	0.93	1.66	2.46
10	1.27	6.7	3.1	0.8	0.2	0.50	1.15	1.74
11	0.60	4.6	1.8	0.2	-7777	0.22	0.52	0.88
12	0.37	3.7	1.2	0.1	0.0	0.16	0.26	0.47
Summary	17.84	82.0	41.0	11.2	2.8	9.03	15.47	24.78

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 1981-2010**

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

Station: CRESCENT LAKE, NE US

GHCND:USC00252000
 Elev: 3819 ft. Lat: 41.761° N Lon: 102.437° 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	5.3	3.2	1.7	0.6	0.3	0.0	10.8	7.1	3.1	0.2	2.6	4.1	7.3
2	4.0	3.6	1.9	0.5	0.1	-7777	6.1	2.7	1.0	0.2	1.7	3.4	6.0
3	5.4	3.4	2.2	0.6	0.2	0.0	4.8	2.2	0.8	0.0	2.4	4.1	7.2
4	3.4	1.6	1.1	0.5	0.1	0.0	1.4	0.5	0.1	0.0	0.0	3.0	5.0
5	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
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	0.5	0.1	0.1	0.1	-7777	0.0	0.1	-7777	0.0	0.0	0.0	0.0	0.0
10	1.7	0.8	0.6	0.3	0.1	0.0	0.8	0.6	0.2	0.0	0.0	0.0	2.0
11	3.7	2.3	1.5	0.5	0.1	0.0	3.0	1.5	0.9	0.0	0.5	2.6	4.3
12	5.2	3.7	2.2	0.6	0.1	0.0	9.0	5.9	3.3	0.5	2.0	5.0	6.3
Summary	29.5	18.9	11.4	3.7	1.0	0.0	36.1	20.5	9.4	0.9	9.2	22.2	38.1

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 -4444: year-round risk of frost-freeze
 -6666: parameter undefined; insufficient occurrences to compute value
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Summary of Monthly Normals 1981-2010

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

Station: CRESCENT LAKE, NE US

GHCND:USC00252000

Elev: 3819 ft. Lat: 41.761° N Lon: 102.437° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	31	115	267	532	790	1032	982	658	327	105	19
45	4	9	54	165	385	641	877	827	514	208	53	5
50	1	1	20	88	252	493	722	673	374	112	19	1
55	-7777	-7777	6	39	143	350	568	519	248	48	5	-7777
60	0	-7777	1	12	65	219	414	367	143	16	1	0
Growing Degree Units for Corn (Monthly)												
50/86	30	45	117	208	341	496	652	625	427	251	103	31

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	18	49	164	431	963	1753	2785	3767	4425	4752	4857	4876
45	4	13	67	232	617	1258	2135	2962	3476	3684	3737	3742
50	1	2	22	110	362	855	1577	2250	2624	2736	2755	2756
55	-7777	-7777	6	45	188	538	1106	1625	1873	1921	1926	-7777
60	0	-7777	1	13	78	297	711	1078	1221	1237	1238	1238
Growing Degree Units for Corn (Monthly)												
50/86	30	75	192	400	741	1237	1889	2514	2941	3192	3295	3326

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

M indicates the value is missing

-4444: year-round risk of frost-freeze

-6666: parameter undefined; insufficient occurrences to compute value

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

9999, Empty, or blank, cells indicate an average greater than 0 but less than 0.05.

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: ANSELMO 2 SE, NE US

GHCND:USC00250245

Elev: 2605 ft. Lat: 41.598° N Lon: 99.826° 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	11.0	24.0	6.4	5.4	5.6	0	0	0	0	0	0	959	1021	1114	1269	0.0	0.0	6.1	10.5	30.7	6.2
2	40.3	14.3	27.3	6.5	5.6	5.8	-7777	-7777	0	0	0	0	776	831	915	1055	0.0	0.0	7.5	7.9	27.2	3.8
3	50.4	22.2	36.3	4.8	3.8	3.8	3	1	-7777	-7777	0	0	583	643	735	890	0.0	0.0	16.7	3.7	26.8	1.0
4	61.1	32.1	46.6	5.0	2.8	3.5	35	25	14	4	1	-7777	287	337	416	556	0.0	0.3	23.5	0.4	15.0	0.0
5	70.9	44.0	57.5	3.6	2.9	3.0	150	115	73	27	6	3	74	102	152	261	0.0	0.6	30.3	0.0	2.7	0.0
6	80.5	54.1	67.3	4.1	2.7	3.2	375	319	240	128	54	34	6	10	21	59	0.3	4.2	29.9	0.0	0.0	0.0
7	86.7	59.8	73.3	3.1	2.3	2.4	566	504	412	264	137	97	-7777	-7777	1	8	0.8	10.6	31.0	0.0	0.0	0.0
8	84.7	57.6	71.1	3.2	2.7	2.8	502	441	351	211	98	65	1	2	6	20	0.2	7.7	31.0	0.0	0.0	0.0
9	76.4	46.9	61.6	3.5	2.9	2.8	238	194	136	64	21	12	38	54	87	165	-7777	2.1	29.6	0.0	1.9	0.0
10	64.0	33.7	48.8	4.0	2.8	2.8	43	29	15	4	-7777	-7777	234	282	361	504	0.0	0.2	26.9	0.4	12.7	0.0
11	48.7	21.8	35.2	6.5	3.8	4.8	3	1	-7777	-7777	0	0	595	654	743	892	0.0	0.0	14.4	4.1	25.7	1.1
12	37.2	11.9	24.5	6.9	5.5	6.0	0	0	0	0	0	0	944	1006	1099	1254	0.0	0.0	6.1	10.5	30.7	4.8
Summary	61.5	34.1	47.8	4.8	3.6	3.9	1915	1629	1241	702	317	211	4497	4942	5650	6933	1.3	25.7	253.0	37.5	173.4	16.9

@ Denotes mean number of days greater than 0 but less than 0.05; or insufficient data for calculation.

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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: **ANSELMO 2 SE, NE US**

GHCND:USC00250245

Elev: 2605 ft. Lat: 41.598° N Lon: 99.826° 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	0.50	3.2	1.2	0.2	0.1	0.15	0.36	0.57
2	0.62	3.8	1.9	0.2	0.1	0.25	0.49	0.81
3	1.35	6.0	3.6	0.8	0.2	0.66	0.94	1.86
4	2.84	8.2	5.6	2.0	0.7	1.70	2.45	3.42
5	3.79	9.9	7.0	2.4	1.1	2.40	3.19	5.23
6	4.02	10.1	6.8	2.8	1.0	2.46	3.39	5.39
7	3.14	7.7	5.5	2.2	0.8	1.88	3.01	4.27
8	2.86	7.3	4.9	1.7	0.7	1.39	2.85	4.04
9	2.22	6.4	4.3	1.5	0.6	1.04	1.58	3.07
10	1.96	6.1	3.8	1.3	0.4	0.54	1.38	3.05
11	1.12	3.8	2.3	0.7	0.3	0.32	0.88	1.63
12	0.51	3.3	1.3	0.2	0.1	0.20	0.32	0.57
Summary	24.93	75.8	48.2	16.0	6.1	12.99	20.84	33.91

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Station: ANSELMO 2 SE, NE US

GHCND:USC00250245
Elev: 2605 ft. Lat: 41.598° N Lon: 99.826° W

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	20	85	244	542	819	1031	965	650	306	74	7
45	2	5	38	147	393	669	875	810	504	191	35	1
50	-7777	1	13	77	259	520	721	656	364	101	12	-7777
55	0	-7777	3	35	150	375	566	502	238	43	3	0
60	0	0	-7777	14	73	240	412	351	136	15	-7777	0
Growing Degree Units for Corn (Monthly)												
50/86	21	33	97	190	341	519	673	627	421	233	80	19

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	9	29	114	358	900	1719	2750	3715	4365	4671	4745	4752
45	2	7	45	192	585	1254	2129	2939	3443	3634	3669	3670
50	-7777	1	14	91	350	870	1591	2247	2611	2712	2724	-7777
55	0	-7777	3	38	188	563	1129	1631	1869	1912	1915	1915
60	0	0	-7777	14	87	327	739	1090	1226	1241	-7777	1241
Growing Degree Units for Corn (Monthly)												
50/86	21	54	151	341	682	1201	1874	2501	2922	3155	3235	3254

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

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