

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 3460 ft. Lat: 42.250° N Lon: 101.336° W  
 Station: **MULLEN 21 NW, NE US GHCND:USC00255702**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	6/07	6/02	5/30	5/26	5/23	5/20	5/17	5/13	5/09	
32	5/27	5/22	5/17	5/14	5/11	5/09	5/06	5/03	4/30	
28	5/16	5/11	5/07	5/05	5/02	4/30	4/27	4/24	4/19	
24	5/07	5/02	4/29	4/26	4/23	4/20	4/17	4/13	4/08	
20	4/26	4/21	4/17	4/14	4/11	4/08	4/05	4/02	3/28	
16	4/15	4/10	4/06	4/03	4/01	3/29	3/25	3/21	3/14	

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	9/07	9/11	9/14	9/17	9/19	9/22	9/24	9/27	9/30	
32	9/14	9/18	9/22	9/25	9/28	9/30	10/02	10/05	10/09	
28	9/21	9/26	9/30	10/03	10/06	10/08	10/11	10/14	10/18	
24	9/28	10/04	10/09	10/13	10/15	10/18	10/20	10/23	10/26	
20	10/06	10/13	10/17	10/20	10/23	10/25	10/28	10/31	11/05	
16	10/16	10/22	10/25	10/28	10/31	11/02	11/06	11/10	11/15	

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	135	129	125	121	117	114	109	105	98	
32	154	148	144	140	136	133	129	124	118	
28	173	167	162	158	154	150	146	141	134	
24	193	187	182	178	174	170	165	160	152	
20	214	207	202	198	194	189	185	180	172	
16	235	228	222	218	213	209	204	199	192	

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2654 ft. Lat: 42.172° N Lon: 100.011° W  
 Station: **ELSMERE, NE US GHCND:USC00252680**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/31	5/26	5/22	5/19	5/16	5/13	5/11	5/07	5/03
32	5/19	5/14	5/11	5/08	5/06	5/03	5/01	4/29	4/25
28	5/10	5/05	5/03	4/30	4/28	4/26	4/23	4/19	4/15
24	5/03	4/28	4/25	4/22	4/19	4/16	4/13	4/09	4/05
20	4/25	4/20	4/16	4/12	4/09	4/06	4/02	3/30	3/24
16	4/16	4/10	4/05	4/01	3/30	3/26	3/22	3/18	3/12

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/06	9/11	9/14	9/17	9/19	9/22	9/25	9/28	10/02
32	9/13	9/18	9/22	9/25	9/28	9/30	10/03	10/07	10/11
28	9/21	9/27	10/01	10/04	10/08	10/11	10/14	10/17	10/21
24	9/30	10/07	10/12	10/16	10/19	10/21	10/23	10/26	10/30
20	10/10	10/17	10/21	10/24	10/27	10/29	11/01	11/04	11/10
16	10/21	10/26	10/30	11/01	11/05	11/08	11/11	11/14	11/19

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	142	136	132	128	125	121	117	112	105
32	161	154	150	146	143	139	135	131	124
28	181	174	169	165	161	157	152	147	140
24	200	194	189	184	180	176	171	166	157
20	221	213	208	203	199	195	190	185	177
16	241	234	228	223	219	214	209	204	196

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2330 ft. Lat: 42.184° N Lon: 99.090° W  
 Station: **SWAN LAKE, NE US GHCND:USC00258360**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/30	5/25	5/20	5/16	5/13	5/10	5/07	5/04	4/30
32	5/18	5/12	5/08	5/05	5/02	4/30	4/28	4/25	4/20
28	5/06	5/02	4/30	4/26	4/24	4/21	4/18	4/14	4/09
24	4/29	4/23	4/20	4/17	4/14	4/10	4/08	4/04	3/31
20	4/20	4/14	4/10	4/07	4/04	4/02	3/30	3/25	3/19
16	4/12	4/06	4/02	3/31	3/27	3/23	3/19	3/15	3/09

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/10	9/14	9/17	9/20	9/22	9/24	9/27	9/29	10/03
32	9/17	9/21	9/24	9/27	9/29	10/01	10/04	10/08	10/12
28	9/23	9/28	10/01	10/05	10/08	10/11	10/14	10/18	10/22
24	10/01	10/07	10/12	10/15	10/19	10/21	10/24	10/26	10/30
20	10/12	10/18	10/22	10/24	10/27	10/30	11/02	11/06	11/12
16	10/20	10/26	10/30	11/02	11/06	11/10	11/14	11/18	11/23

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	142	137	133	130	126	122	117	111
32	165	159	155	151	147	143	140	135	128
28	186	179	173	169	165	161	157	151	145
24	206	199	194	190	185	181	176	171	163
20	227	219	214	209	205	201	196	191	183
16	248	240	234	229	224	219	214	208	200

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2990 ft. Lat: 41.458° N Lon: 100.599° W  
 Station: **STAPLETON 5 W, NE US GHCND:USC00258133**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/03	5/29	5/24	5/20	5/17	5/14	5/11	5/08	5/05
32	5/24	5/16	5/12	5/09	5/06	5/04	5/02	4/30	4/26
28	5/10	5/05	5/03	5/01	4/29	4/26	4/23	4/19	4/15
24	5/02	4/29	4/25	4/22	4/19	4/16	4/13	4/09	4/05
20	4/25	4/19	4/15	4/12	4/08	4/05	4/02	3/31	3/24
16	4/15	4/09	4/05	4/02	3/30	3/26	3/23	3/18	3/12

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/10	9/14	9/17	9/20	9/22	9/24	9/27	9/30	10/04
32	9/16	9/20	9/24	9/27	9/29	10/02	10/05	10/08	10/12
28	9/23	9/28	10/01	10/05	10/09	10/12	10/15	10/18	10/22
24	10/01	10/07	10/12	10/16	10/19	10/21	10/24	10/26	10/31
20	10/10	10/17	10/21	10/24	10/27	10/29	11/01	11/05	11/10
16	10/20	10/25	10/29	11/01	11/04	11/08	11/11	11/15	11/20

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	144	138	134	130	126	122	118	113	106
32	162	155	151	147	143	140	135	131	124
28	181	174	169	165	161	157	153	148	140
24	201	194	189	185	181	176	172	166	158
20	221	214	209	204	200	195	190	185	177
16	242	234	228	223	219	214	210	204	196

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2176 ft. Lat: 41.777° N Lon: 99.143° W  
 Station: **BURWELL, NE US GHCND:USC00251345**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/29	5/24	5/20	5/16	5/13	5/11	5/08	5/05	5/01
32	5/18	5/12	5/09	5/06	5/03	5/01	4/29	4/27	4/23
28	5/07	5/03	4/30	4/28	4/26	4/23	4/21	4/18	4/14
24	4/29	4/25	4/22	4/19	4/17	4/15	4/12	4/09	4/05
20	4/21	4/17	4/14	4/11	4/08	4/05	4/03	3/31	3/26
16	4/13	4/08	4/05	4/02	3/31	3/28	3/24	3/20	3/14

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/18	9/20	9/23	9/25	9/27	9/29	10/03
32	9/18	9/22	9/25	9/27	9/30	10/02	10/04	10/07	10/11
28	9/24	9/29	10/02	10/05	10/08	10/11	10/14	10/17	10/20
24	10/01	10/07	10/12	10/15	10/18	10/20	10/23	10/26	10/29
20	10/10	10/16	10/20	10/23	10/26	10/28	10/31	11/04	11/09
16	10/19	10/25	10/29	11/01	11/04	11/06	11/10	11/14	11/19

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	141	137	133	130	126	123	118	112
32	163	158	154	150	147	143	140	135	129
28	182	175	171	167	164	160	156	151	145
24	201	194	190	186	182	178	174	169	162
20	219	213	208	204	200	196	192	187	180
16	239	232	227	222	218	214	209	204	196

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 1390 ft. Lat: 42.829° N Lon: 98.458° W  
 Station: **LYNCH, NE US GHCND:USC00255040**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	6/03	5/28	5/23	5/19	5/16	5/13	5/09	5/06	5/02	
32	5/20	5/14	5/10	5/07	5/04	5/02	4/30	4/27	4/23	
28	5/09	5/04	5/01	4/29	4/26	4/23	4/21	4/17	4/13	
24	4/29	4/24	4/21	4/19	4/16	4/14	4/11	4/07	4/03	
20	4/20	4/16	4/13	4/10	4/08	4/05	4/02	3/31	3/25	
16	4/13	4/09	4/05	4/02	3/31	3/28	3/24	3/20	3/14	

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	9/10	9/14	9/17	9/19	9/22	9/24	9/26	9/29	10/03	
32	9/17	9/21	9/24	9/27	9/30	10/02	10/04	10/07	10/12	
28	9/25	9/29	10/02	10/05	10/08	10/11	10/14	10/18	10/22	
24	10/03	10/08	10/13	10/16	10/19	10/22	10/24	10/27	11/01	
20	10/12	10/18	10/22	10/25	10/28	10/31	11/02	11/06	11/11	
16	10/21	10/27	10/31	11/02	11/05	11/08	11/11	11/15	11/19	

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)									
	.10	.20	.30	.40	.50	.60	.70	.80	.90	
36	145	139	134	130	126	122	118	114	107	
32	163	157	152	148	145	141	137	132	125	
28	183	176	171	167	163	159	155	150	143	
24	203	197	192	187	183	180	175	170	163	
20	222	215	210	206	202	198	194	189	182	
16	240	233	228	223	219	215	210	205	197	

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 1850 ft. Lat: 42.261° N Lon: 98.342° W  
 Station: **EWING, NE US GHCND:USC00252805**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/28	5/23	5/18	5/15	5/12	5/09	5/06	5/03	4/29
32	5/16	5/10	5/07	5/04	5/01	4/29	4/27	4/23	4/19
28	5/05	5/01	4/28	4/25	4/22	4/19	4/16	4/13	4/09
24	4/26	4/22	4/19	4/16	4/13	4/10	4/07	4/04	3/31
20	4/19	4/14	4/10	4/07	4/04	4/02	3/30	3/26	3/20
16	4/10	4/05	4/02	3/30	3/26	3/23	3/19	3/15	3/10

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/10	9/14	9/17	9/20	9/22	9/24	9/27	9/29	10/03
32	9/17	9/21	9/25	9/27	9/30	10/02	10/05	10/08	10/12
28	9/24	9/29	10/03	10/06	10/09	10/12	10/15	10/19	10/23
24	10/03	10/09	10/13	10/17	10/20	10/23	10/26	10/29	11/03
20	10/12	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/13
16	10/22	10/28	11/01	11/03	11/06	11/10	11/14	11/17	11/23

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	143	138	135	131	127	123	119	112
32	168	161	156	152	149	145	141	137	130
28	189	182	177	173	169	164	160	155	148
24	209	202	197	193	189	185	180	175	167
20	228	221	216	212	207	203	199	194	186
16	248	241	235	231	226	222	217	211	204

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2590 ft. Lat: 42.878° N Lon: 100.550° W  
 Station: VALENTINE MILLER FIELD, NE US GHCND:USW00024032

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/07	6/01	5/28	5/25	5/21	5/18	5/15	5/11	5/07
32	5/26	5/20	5/16	5/13	5/10	5/07	5/04	5/02	4/28
28	5/13	5/09	5/05	5/03	5/01	4/29	4/26	4/23	4/18
24	5/05	5/01	4/28	4/25	4/22	4/19	4/16	4/13	4/07
20	4/27	4/22	4/18	4/15	4/12	4/09	4/05	4/01	3/27
16	4/18	4/13	4/08	4/05	4/02	3/30	3/26	3/22	3/15

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/06	9/10	9/14	9/17	9/19	9/21	9/24	9/26	9/30
32	9/13	9/18	9/21	9/24	9/27	9/29	10/01	10/04	10/09
28	9/21	9/25	9/29	10/01	10/05	10/08	10/11	10/14	10/19
24	9/29	10/04	10/08	10/12	10/15	10/17	10/20	10/23	10/27
20	10/07	10/13	10/17	10/20	10/22	10/25	10/27	10/31	11/04
16	10/16	10/21	10/25	10/28	10/30	11/02	11/05	11/09	11/14

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	137	131	127	123	119	115	111	106	99
32	155	150	145	141	137	134	130	125	118
28	175	168	164	159	156	151	147	143	136
24	194	187	182	178	174	170	165	160	153
20	213	206	201	197	192	188	184	178	171
16	233	225	219	215	210	206	201	196	188

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data



**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 3217 ft. Lat: 42.043° N Lon: 101.046° W  
 Station: **MULLEN, NE US GHCND:USC00255700**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/02	5/27	5/22	5/18	5/15	5/13	5/10	5/07	5/04
32	5/19	5/13	5/10	5/07	5/05	5/03	5/02	4/29	4/25
28	5/08	5/04	5/02	4/30	4/28	4/25	4/22	4/19	4/14
24	5/01	4/27	4/24	4/21	4/18	4/15	4/12	4/08	4/03
20	4/24	4/19	4/15	4/12	4/08	4/05	4/02	3/29	3/24
16	4/17	4/11	4/07	4/03	3/31	3/27	3/23	3/17	3/11

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/09	9/13	9/16	9/20	9/22	9/25	9/28	10/01	10/05
32	9/15	9/21	9/25	9/28	9/30	10/03	10/06	10/10	10/14
28	9/23	9/28	10/02	10/07	10/10	10/14	10/17	10/20	10/24
24	9/30	10/07	10/13	10/16	10/19	10/22	10/25	10/28	11/01
20	10/11	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/12
16	10/21	10/27	10/31	11/03	11/06	11/10	11/13	11/16	11/21

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	140	135	131	128	124	120	115	108
32	164	158	153	149	146	142	138	133	126
28	184	177	172	168	164	160	155	150	142
24	204	196	191	186	182	178	173	167	160
20	224	217	211	207	202	198	193	187	179
16	245	237	231	225	221	216	211	205	196

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2510 ft. Lat: 42.552° N Lon: 99.856° W  
 Station: AINSWORTH, NE US GHCND:USC00250050

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/24	5/18	5/14	5/12	5/09	5/07	5/04	5/02	4/28
32	5/13	5/09	5/05	5/03	5/01	4/29	4/26	4/23	4/18
28	5/04	4/30	4/27	4/24	4/22	4/19	4/15	4/12	4/08
24	4/25	4/21	4/18	4/14	4/11	4/08	4/05	4/02	3/29
20	4/18	4/13	4/09	4/06	4/03	3/31	3/28	3/23	3/18
16	4/10	4/05	4/01	3/29	3/25	3/21	3/17	3/13	3/07

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/15	9/20	9/23	9/26	9/28	9/30	10/03	10/06	10/10
32	9/22	9/27	10/01	10/04	10/07	10/10	10/13	10/16	10/20
28	10/01	10/07	10/11	10/14	10/17	10/20	10/22	10/25	10/29
24	10/10	10/16	10/20	10/22	10/25	10/27	10/30	11/02	11/08
20	10/18	10/24	10/28	10/31	11/03	11/06	11/09	11/13	11/18
16	10/28	11/01	11/05	11/09	11/12	11/15	11/19	11/23	11/27

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	157	151	147	143	140	136	132	128	121
32	176	170	165	161	158	153	149	145	138
28	196	190	185	180	177	173	168	163	155
24	216	208	203	199	195	191	187	182	175
20	235	228	222	218	213	209	204	199	191
16	254	246	241	235	231	226	221	216	208

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2690 ft. Lat: 42.065° N Lon: 100.247° W  
 Station: **PURDUM, NE US GHCND:USC00256970**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/03	5/29	5/25	5/21	5/18	5/15	5/13	5/10	5/06
32	5/23	5/17	5/13	5/10	5/08	5/06	5/03	5/01	4/27
28	5/11	5/06	5/04	5/02	4/30	4/28	4/26	4/22	4/18
24	5/04	4/30	4/27	4/25	4/22	4/19	4/16	4/13	4/08
20	4/27	4/22	4/18	4/15	4/12	4/09	4/06	4/02	3/29
16	4/18	4/13	4/09	4/05	4/02	3/31	3/27	3/22	3/15

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/07	9/11	9/14	9/17	9/19	9/22	9/24	9/28	10/01
32	9/13	9/18	9/22	9/25	9/28	9/30	10/03	10/06	10/10
28	9/20	9/26	9/29	10/03	10/06	10/09	10/12	10/15	10/19
24	9/28	10/04	10/09	10/13	10/16	10/18	10/21	10/24	10/27
20	10/06	10/13	10/17	10/20	10/23	10/25	10/28	10/31	11/05
16	10/16	10/22	10/25	10/28	10/31	11/03	11/06	11/10	11/15

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	139	134	129	126	122	118	114	109	102
32	157	152	147	144	140	136	132	127	121
28	175	169	165	161	157	153	149	144	138
24	194	187	183	179	175	171	167	161	154
20	213	206	200	196	192	188	184	178	171
16	234	227	221	216	211	206	202	196	188

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 3235 ft. Lat: 42.919° N Lon: 101.709° W  
 Station: **MERRIMAN, NE US GHCND:USC00255470**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/01	5/28	5/24	5/20	5/17	5/15	5/11	5/08	5/03
32	5/22	5/16	5/12	5/09	5/06	5/04	5/01	4/29	4/24
28	5/11	5/06	5/03	5/01	4/28	4/26	4/23	4/19	4/14
24	5/02	4/28	4/24	4/21	4/18	4/15	4/12	4/08	4/03
20	4/23	4/17	4/13	4/10	4/07	4/04	4/01	3/29	3/23
16	4/14	4/08	4/04	4/01	3/29	3/25	3/21	3/17	3/10

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/08	9/13	9/16	9/19	9/21	9/24	9/26	9/30	10/04
32	9/15	9/20	9/24	9/27	9/30	10/02	10/05	10/09	10/13
28	9/23	9/28	10/02	10/06	10/09	10/13	10/16	10/19	10/23
24	10/01	10/09	10/13	10/17	10/20	10/22	10/25	10/28	11/02
20	10/13	10/18	10/22	10/25	10/27	10/30	11/02	11/06	11/12
16	10/21	10/26	10/30	11/01	11/05	11/08	11/12	11/16	11/21

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	144	138	133	129	125	121	117	112	106
32	163	157	152	148	144	140	136	131	124
28	183	176	171	167	163	159	154	149	142
24	204	197	192	187	183	179	174	169	161
20	224	217	211	207	203	199	194	189	181
16	245	237	231	226	221	217	212	207	199

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 1811 ft. Lat: 42.913° N Lon: 98.851° W  
 Station: **BUTTE, NE US GHCND:USC00251365**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/30	5/25	5/21	5/18	5/14	5/12	5/09	5/05	5/01
32	5/19	5/13	5/09	5/07	5/04	5/02	4/30	4/27	4/23
28	5/08	5/04	5/01	4/29	4/26	4/24	4/21	4/18	4/13
24	4/30	4/25	4/22	4/19	4/17	4/14	4/11	4/08	4/04
20	4/20	4/16	4/13	4/10	4/07	4/05	4/03	3/31	3/25
16	4/14	4/09	4/06	4/03	4/01	3/29	3/24	3/19	3/14

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/10	9/14	9/18	9/20	9/23	9/25	9/27	9/30	10/04
32	9/17	9/21	9/25	9/28	9/30	10/03	10/06	10/09	10/14
28	9/24	9/30	10/03	10/07	10/10	10/13	10/16	10/19	10/23
24	10/03	10/10	10/14	10/17	10/20	10/23	10/25	10/29	11/03
20	10/13	10/19	10/23	10/26	10/29	11/01	11/03	11/07	11/13
16	10/21	10/27	10/31	11/02	11/06	11/09	11/13	11/17	11/22

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	147	141	136	133	129	125	121	116	110
32	165	159	154	150	147	143	139	134	128
28	185	178	173	169	165	161	156	151	144
24	205	198	193	189	185	181	176	171	163
20	224	217	212	207	203	200	195	190	183
16	243	235	230	225	220	216	211	206	198

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals**  
**1981-2010**

Generated on 08/15/2016

Elev: 3500 ft. Lat: 41.570° N Lon: 101.691° W  
 Station: **ARTHUR, NE US GHCND:USC00250365**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/02	5/27	5/24	5/20	5/17	5/14	5/11	5/08	5/05
32	5/19	5/15	5/11	5/08	5/06	5/04	5/02	4/29	4/25
28	5/10	5/06	5/03	5/01	4/29	4/26	4/23	4/19	4/15
24	5/03	4/29	4/25	4/22	4/19	4/16	4/13	4/10	4/05
20	4/25	4/19	4/16	4/12	4/09	4/06	4/03	3/31	3/24
16	4/15	4/09	4/04	4/01	3/29	3/26	3/22	3/18	3/11

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/19	9/21	9/23	9/26	9/28	10/01	10/04
32	9/19	9/23	9/26	9/29	10/01	10/04	10/06	10/09	10/13
28	9/25	9/30	10/04	10/06	10/09	10/12	10/15	10/18	10/21
24	10/02	10/08	10/12	10/15	10/18	10/20	10/23	10/25	10/29
20	10/11	10/16	10/20	10/22	10/25	10/27	10/30	11/02	11/07
16	10/19	10/24	10/27	10/31	11/02	11/05	11/09	11/13	11/18

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	145	139	135	131	128	124	120	115	108
32	162	157	153	149	146	143	139	135	129
28	181	175	171	167	163	160	156	151	145
24	199	193	188	184	180	176	172	168	161
20	220	212	207	202	198	194	190	184	177
16	242	234	228	223	219	214	209	204	196

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2090 ft. Lat: 42.514° N Lon: 99.030° W  
 Station: **ATKINSON 3 SW, NE US GHCND:USC00250420**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/27	5/22	5/17	5/14	5/11	5/09	5/06	5/03	4/30
32	5/15	5/11	5/07	5/05	5/02	4/30	4/28	4/25	4/21
28	5/06	5/02	4/30	4/27	4/24	4/22	4/19	4/16	4/11
24	4/29	4/24	4/21	4/18	4/15	4/12	4/09	4/06	4/02
20	4/20	4/16	4/12	4/09	4/07	4/04	4/02	3/30	3/24
16	4/14	4/09	4/06	4/03	4/01	3/29	3/25	3/21	3/15

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/18	9/21	9/23	9/25	9/27	9/30	10/03
32	9/17	9/21	9/25	9/27	9/29	10/02	10/04	10/07	10/12
28	9/23	9/29	10/01	10/05	10/08	10/11	10/13	10/17	10/20
24	10/02	10/07	10/11	10/15	10/17	10/20	10/22	10/25	10/30
20	10/11	10/16	10/20	10/23	10/25	10/28	10/31	11/04	11/10
16	10/19	10/24	10/28	10/31	11/03	11/06	11/10	11/14	11/20

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	149	143	139	135	132	128	125	120	114
32	165	159	155	151	148	144	140	136	129
28	184	177	172	168	165	161	156	152	145
24	203	196	191	187	184	180	175	171	163
20	221	214	209	204	200	197	192	188	181
16	239	232	226	222	217	213	208	202	195

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2230 ft. Lat: 42.601° N Lon: 99.333° W  
 Station: **NEWPORT, NE US GHCND:USC00255925**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/29	5/24	5/20	5/16	5/13	5/10	5/08	5/05	5/01
32	5/17	5/12	5/08	5/05	5/03	5/01	4/29	4/26	4/22
28	5/08	5/04	4/30	4/28	4/25	4/23	4/20	4/16	4/12
24	4/30	4/26	4/22	4/19	4/16	4/14	4/11	4/08	4/04
20	4/22	4/17	4/13	4/10	4/08	4/05	4/03	3/31	3/25
16	4/15	4/10	4/06	4/03	3/31	3/28	3/24	3/20	3/14

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/09	9/13	9/16	9/19	9/21	9/23	9/26	9/29	10/03
32	9/16	9/21	9/24	9/26	9/28	10/01	10/04	10/07	10/11
28	9/23	9/28	10/01	10/04	10/07	10/10	10/13	10/16	10/20
24	10/02	10/07	10/11	10/15	10/17	10/20	10/22	10/25	10/29
20	10/10	10/16	10/19	10/22	10/25	10/27	10/30	11/02	11/08
16	10/18	10/23	10/27	10/31	11/02	11/05	11/09	11/13	11/18

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	140	136	132	128	125	121	117	110
32	163	157	152	149	145	142	138	133	127
28	182	176	171	167	163	158	154	150	142
24	201	195	190	185	181	177	173	167	160
20	219	212	207	203	199	195	191	186	179
16	238	230	225	220	216	211	207	201	194

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data



**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2100 ft. Lat: 41.804° N Lon: 98.824° W  
 Station: ERICSON 6 WNW, NE US GHCND:USC00252770

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/02	5/27	5/23	5/19	5/16	5/12	5/09	5/06	5/01
32	5/23	5/16	5/12	5/08	5/05	5/02	4/30	4/27	4/22
28	5/11	5/05	5/01	4/29	4/26	4/23	4/20	4/17	4/12
24	4/30	4/25	4/22	4/19	4/16	4/13	4/10	4/07	4/03
20	4/21	4/17	4/13	4/09	4/07	4/04	4/02	3/29	3/23
16	4/14	4/09	4/05	4/02	3/31	3/27	3/23	3/18	3/12

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/18	9/21	9/23	9/26	9/28	9/30	10/03
32	9/18	9/22	9/25	9/28	9/30	10/02	10/05	10/08	10/12
28	9/25	9/29	10/02	10/05	10/08	10/11	10/14	10/18	10/22
24	10/01	10/08	10/12	10/16	10/19	10/22	10/24	10/27	11/01
20	10/11	10/17	10/21	10/25	10/27	10/30	11/02	11/06	11/11
16	10/19	10/26	10/30	11/01	11/04	11/08	11/12	11/16	11/22

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	146	140	136	132	128	125	120	115	108
32	163	157	152	149	145	141	137	132	125
28	184	177	172	168	164	159	155	150	143
24	204	198	193	188	184	179	175	169	162
20	223	216	211	207	203	199	194	188	181
16	243	235	230	225	220	215	211	206	198

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 3040 ft. Lat: 42.950° N Lon: 100.945° W  
 Station: **KILGORE 1 NE, NE US GHCND:USC00254432**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/02	5/29	5/24	5/21	5/17	5/15	5/11	5/08	5/04
32	5/21	5/16	5/12	5/09	5/07	5/04	5/02	4/29	4/24
28	5/11	5/06	5/03	5/01	4/28	4/26	4/23	4/19	4/13
24	5/02	4/28	4/25	4/22	4/19	4/15	4/12	4/08	4/03
20	4/23	4/18	4/14	4/11	4/08	4/05	4/02	3/30	3/24
16	4/15	4/09	4/06	4/03	3/31	3/28	3/24	3/20	3/14

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/08	9/12	9/16	9/19	9/21	9/23	9/26	9/28	10/02
32	9/15	9/20	9/24	9/27	9/29	10/01	10/04	10/07	10/12
28	9/23	9/28	10/01	10/05	10/08	10/11	10/14	10/18	10/22
24	10/01	10/07	10/11	10/15	10/18	10/21	10/23	10/26	10/31
20	10/11	10/16	10/20	10/23	10/26	10/28	10/31	11/04	11/10
16	10/19	10/25	10/28	11/01	11/03	11/07	11/11	11/15	11/20

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	142	136	132	128	124	121	117	112	105
32	162	156	151	147	143	140	136	131	124
28	182	175	170	166	162	158	153	148	141
24	202	195	189	185	181	176	172	166	159
20	221	214	208	204	200	196	191	186	179
16	239	232	226	221	217	213	208	202	195

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2589 ft. Lat: 42.875° N Lon: 100.552° W  
 Station: VALENTINE NUMBER 1, NE US GHCND:USC00258751

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/31	5/25	5/20	5/17	5/14	5/11	5/09	5/05	5/02
32	5/19	5/13	5/10	5/06	5/04	5/02	4/30	4/27	4/22
28	5/10	5/04	5/01	4/28	4/26	4/23	4/20	4/16	4/11
24	5/02	4/27	4/23	4/19	4/16	4/13	4/10	4/06	4/01
20	4/23	4/17	4/13	4/09	4/06	4/03	3/31	3/27	3/21
16	4/14	4/07	4/03	3/31	3/28	3/24	3/20	3/15	3/10

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/10	9/15	9/19	9/21	9/24	9/26	9/28	10/01	10/05
32	9/19	9/23	9/27	9/29	10/01	10/04	10/06	10/09	10/13
28	9/26	10/01	10/04	10/06	10/09	10/11	10/14	10/17	10/21
24	10/04	10/08	10/11	10/14	10/16	10/19	10/21	10/24	10/28
20	10/11	10/15	10/18	10/21	10/23	10/26	10/29	11/01	11/08
16	10/16	10/21	10/24	10/28	10/31	11/03	11/08	11/12	11/17

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	142	138	134	131	127	122	118	110
32	166	160	155	152	148	145	141	136	130
28	184	177	172	168	164	160	157	152	145
24	202	195	190	186	182	178	174	169	161
20	221	214	208	203	199	195	190	185	178
16	240	232	226	221	217	212	207	202	194

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2496 ft. Lat: 42.822° N Lon: 99.747° W

Station: **SPRINGVIEW, NE US GHCND:USC00258090**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/30	5/24	5/20	5/17	5/14	5/11	5/09	5/06	5/02
32	5/18	5/13	5/09	5/06	5/04	5/02	4/30	4/27	4/23
28	5/07	5/03	5/01	4/28	4/26	4/23	4/20	4/16	4/11
24	4/29	4/25	4/21	4/18	4/15	4/12	4/09	4/06	4/01
20	4/21	4/16	4/12	4/09	4/06	4/04	4/01	3/29	3/22
16	4/14	4/09	4/05	4/02	3/31	3/27	3/22	3/17	3/11

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/18	9/21	9/23	9/26	9/29	10/02	10/06
32	9/18	9/23	9/26	9/29	10/01	10/04	10/07	10/11	10/16
28	9/26	10/01	10/05	10/08	10/12	10/15	10/18	10/21	10/25
24	10/05	10/11	10/15	10/18	10/20	10/23	10/26	10/29	11/03
20	10/15	10/20	10/23	10/26	10/29	11/01	11/05	11/09	11/14
16	10/23	10/29	11/01	11/05	11/08	11/12	11/15	11/19	11/24

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	148	142	138	134	130	127	123	118	112
32	167	161	156	152	148	145	141	137	130
28	187	180	175	171	167	163	158	153	146
24	207	199	194	190	186	182	178	172	165
20	228	220	214	210	205	201	196	191	184
16	247	239	233	228	223	219	214	208	200

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2129 ft. Lat: 42.203° N Lon: 98.747° W  
 Station: **CHAMBERS, NE US GHCND:USC00251590**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/21	5/16	5/13	5/10	5/07	5/04	5/02	4/30	4/25
32	5/11	5/05	5/02	4/30	4/28	4/25	4/22	4/19	4/14
28	5/01	4/27	4/24	4/21	4/18	4/15	4/12	4/08	4/04
24	4/22	4/18	4/14	4/11	4/08	4/05	4/03	3/31	3/26
20	4/15	4/10	4/06	4/03	4/01	3/30	3/26	3/21	3/16
16	4/08	4/03	3/31	3/28	3/24	3/21	3/17	3/13	3/07

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/15	9/19	9/22	9/25	9/27	9/29	10/01	10/05	10/09
32	9/22	9/26	9/30	10/02	10/05	10/08	10/11	10/14	10/19
28	9/30	10/04	10/09	10/13	10/16	10/18	10/21	10/24	10/28
24	10/09	10/15	10/19	10/22	10/24	10/27	10/30	11/02	11/08
20	10/18	10/23	10/27	10/30	11/02	11/05	11/09	11/13	11/18
16	10/26	11/01	11/04	11/08	11/12	11/15	11/18	11/22	11/27

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	158	152	148	144	141	137	134	129	123
32	178	172	167	163	159	155	151	146	139
28	199	192	188	183	179	175	170	165	158
24	218	211	206	202	198	194	190	185	178
20	237	230	224	220	215	211	207	201	194
16	255	247	242	237	233	228	223	217	210

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 2930 ft. Lat: 42.571° N Lon: 100.693° W  
 Station: VALENTINE NWR, NE US GHCND:USC00258755

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/26	5/20	5/16	5/13	5/10	5/07	5/05	5/02	4/29
32	5/13	5/09	5/06	5/03	5/01	4/29	4/27	4/23	4/18
28	5/05	5/01	4/28	4/26	4/22	4/20	4/16	4/13	4/09
24	4/27	4/22	4/19	4/16	4/12	4/09	4/06	4/03	3/31
20	4/19	4/13	4/09	4/05	4/03	3/31	3/28	3/24	3/18
16	4/11	4/06	4/02	3/30	3/26	3/22	3/18	3/13	3/07

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/13	9/17	9/21	9/24	9/26	9/28	10/01	10/04	10/09
32	9/20	9/25	9/29	10/01	10/05	10/08	10/12	10/15	10/20
28	9/28	10/04	10/08	10/12	10/15	10/19	10/22	10/25	10/29
24	10/08	10/14	10/18	10/21	10/24	10/27	10/30	11/02	11/08
20	10/17	10/23	10/27	10/30	11/02	11/05	11/08	11/13	11/17
16	10/26	11/01	11/04	11/07	11/11	11/14	11/17	11/21	11/26

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	155	149	144	140	137	133	129	124	117
32	174	168	163	159	155	151	147	142	136
28	195	188	183	178	174	170	165	160	153
24	214	207	202	197	193	189	185	179	172
20	234	226	221	216	212	207	202	197	189
16	253	245	239	234	230	225	220	214	206

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data

**Summary of Annual Normals  
 1981-2010**

Generated on 08/15/2016

Elev: 1990 ft. Lat: 42.459° N Lon: 98.656° W  
 Station: **O NEILL, NE US GHCND:USC00256290**

**Freeze Data**

**Spring Freeze Dates (Month/Day)**

Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/26	5/20	5/16	5/12	5/09	5/07	5/05	5/02	4/28
32	5/13	5/08	5/05	5/03	5/01	4/29	4/26	4/23	4/18
28	5/05	5/01	4/28	4/25	4/22	4/19	4/17	4/13	4/09
24	4/26	4/22	4/19	4/16	4/13	4/10	4/08	4/04	4/01
20	4/19	4/15	4/11	4/08	4/06	4/03	3/31	3/28	3/22
16	4/13	4/08	4/05	4/02	3/30	3/27	3/22	3/18	3/12

**Fall Freeze Dates (Month/Day)**

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/11	9/15	9/18	9/21	9/23	9/26	9/28	10/01	10/05
32	9/16	9/21	9/25	9/28	9/30	10/03	10/06	10/09	10/14
28	9/23	9/28	10/02	10/05	10/09	10/12	10/16	10/19	10/23
24	10/01	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/02
20	10/11	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/13
16	10/19	10/26	10/30	11/02	11/06	11/09	11/13	11/17	11/23

**Freeze Free Period**

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	152	146	141	138	134	130	126	122	115
32	169	162	158	154	150	146	142	138	131
28	188	182	177	172	168	164	159	154	147
24	208	201	196	191	187	184	179	174	166
20	227	219	214	209	205	201	196	190	183
16	245	237	231	226	222	217	212	206	198

\* Probability of observing a temperature as cold or colder than the indicated threshold, later in the spring or earlier in the fall than the indicated date

-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

blank: missing or insufficient data