

Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/31	05/27	05/22	05/18	05/14	05/11	05/09	05/06	05/02
32	05/21	05/15	05/10	05/07	05/05	05/02	04/30	04/26	04/21
28	05/12	05/06	05/02	04/30	04/27	04/24	04/20	04/16	04/12
24	05/04	04/29	04/24	04/21	04/17	04/14	04/11	04/07	04/01
20	04/24	04/18	04/14	04/11	04/07	04/04	04/01	03/28	03/21
16	04/15	04/09	04/05	04/01	03/29	03/25	03/20	03/15	03/08
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	09/14	09/20	09/24	09/27	09/30	10/02	10/05	10/09	10/14
32	09/28	10/02	10/05	10/07	10/10	10/13	10/16	10/20	10/25
28	10/06	10/11	10/15	10/18	10/21	10/23	10/26	10/30	11/04
24	10/16	10/21	10/24	10/27	10/30	11/01	11/05	11/09	11/16
20	10/25	10/30	11/02	11/05	11/09	11/13	11/17	11/22	11/29
16	11/03	11/08	11/14	11/18	11/22	11/27	12/01	12/04	12/10
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	148	143	139	135	131	126	121	113
32	176	169	164	160	156	152	148	144	137
28	197	190	185	180	176	172	167	162	155
24	218	210	205	200	196	191	186	181	173
20	241	232	226	221	216	211	206	200	192
16	266	256	249	244	238	233	228	221	213

* 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

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32	04/12	04/07	04/03	03/31	03/28	03/24	03/21	03/16	03/10
28	03/31	03/25	03/20	03/16	03/12	03/08	03/03	02/28	02/22
24	03/16	03/09	03/04	02/28	02/25	02/21	02/16	02/09	02/01
20	03/02	02/24	02/19	02/13	02/06	02/01	01/29	01/22	01/11
16	02/17	02/07	02/01	01/30	01/25	01/19	01/13	01/06	12/29
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	10/13	10/18	10/22	10/25	10/28	10/31	11/02	11/06	11/11
32	10/23	10/28	11/01	11/03	11/07	11/10	11/13	11/18	11/27
28	11/02	11/08	11/13	11/17	11/21	11/27	12/01	12/04	12/10
24	11/18	11/26	12/01	12/03	12/06	12/10	12/15	12/22	01/01
20	12/02	12/07	12/12	12/17	12/22	12/28	01/02	01/08	01/19
16	12/10	12/17	12/23	12/29	01/02	01/07	01/13	01/20	01/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	220	213	208	203	199	195	191	186	179
32	248	240	234	228	223	219	214	208	201
28	281	271	264	258	253	247	242	235	226
24	314	304	297	290	284	279	273	266	257
20	347	335	329	321	315	309	303	295	285
16	365	365	356	348	341	335	331	322	312

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32	04/11	04/05	04/01	03/29	03/25	03/21	03/17	03/13	03/07
28	04/01	03/26	03/19	03/15	03/11	03/06	03/02	02/26	02/18
24	03/17	03/09	03/03	02/27	02/23	02/17	02/09	02/02	01/27
20	03/01	02/21	02/13	02/05	02/01	01/29	01/22	01/15	01/03
16	02/15	02/03	01/30	01/27	01/22	01/16	01/10	01/03	12/25
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28	11/05	11/12	11/18	11/23	11/29	12/02	12/05	12/11	12/20
24	11/21	11/30	12/03	12/07	12/12	12/18	12/24	01/01	01/10
20	12/04	12/12	12/18	12/25	12/31	01/04	01/11	01/18	01/28
16	12/12	12/21	12/29	01/03	01/08	01/14	01/19	01/25	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	227	219	214	209	205	201	196	190	183
32	256	247	240	235	230	224	219	213	205
28	291	279	272	265	260	253	247	240	230
24	327	315	307	300	293	286	280	271	261
20	363	348	339	334	328	320	312	304	292
16	365	365	365	363	354	346	338	333	320

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24	03/24	03/19	03/14	03/09	03/05	03/01	02/25	02/18	02/08
20	03/12	03/05	02/28	02/21	02/13	02/06	02/02	01/28	01/18
16	02/27	02/14	02/05	02/01	01/29	01/25	01/19	01/13	01/04
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36	10/11	10/17	10/21	10/24	10/28	11/01	11/03	11/06	11/12
32	10/23	10/29	11/01	11/05	11/08	11/12	11/16	11/20	11/28
28	11/03	11/10	11/15	11/19	11/23	11/28	12/01	12/05	12/13
24	11/17	11/26	12/01	12/04	12/07	12/12	12/18	12/25	01/02
20	12/01	12/07	12/13	12/19	12/25	12/31	01/04	01/10	01/20
16	12/11	12/20	12/27	01/01	01/06	01/12	01/17	01/23	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	217	209	204	199	194	190	185	179	171
32	245	237	231	225	220	216	211	204	195
28	276	267	260	254	249	244	238	231	222
24	307	298	290	284	278	272	266	259	249
20	340	330	323	315	308	302	295	287	276
16	365	359	350	342	336	332	326	315	304

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28	04/08	04/02	03/29	03/25	03/21	03/17	03/13	03/09	03/02
24	03/25	03/18	03/13	03/08	03/04	03/01	02/25	02/19	02/10
20	03/10	03/02	02/25	02/19	02/13	02/08	02/03	01/30	01/20
16	02/26	02/16	02/07	02/03	01/31	01/26	01/20	01/12	01/01
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32	10/20	10/26	10/29	11/01	11/03	11/06	11/09	11/14	11/20
28	11/01	11/05	11/08	11/12	11/15	11/19	11/24	11/30	12/05
24	11/12	11/18	11/23	11/28	12/01	12/04	12/08	12/13	12/23
20	11/27	12/02	12/06	12/10	12/15	12/20	12/26	01/01	01/10
16	12/07	12/13	12/19	12/24	12/30	01/02	01/09	01/17	01/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	203	198	193	189	185	180	175	168
32	237	228	222	217	213	209	204	199	191
28	266	257	251	245	240	235	229	223	216
24	299	289	281	276	270	264	258	252	243
20	332	321	313	307	301	294	288	281	271
16	365	351	342	334	330	324	317	308	297

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28	05/01	04/24	04/20	04/16	04/13	04/09	04/05	04/01	03/27
24	04/16	04/09	04/05	04/01	03/29	03/26	03/22	03/17	03/10
20	04/04	03/29	03/24	03/19	03/15	03/10	03/05	03/01	02/22
16	03/24	03/17	03/11	03/05	03/01	02/25	02/19	02/12	02/03
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28	10/09	10/15	10/19	10/23	10/26	10/29	11/01	11/04	11/10
24	10/20	10/27	10/31	11/03	11/05	11/09	11/13	11/18	11/27
20	11/01	11/06	11/12	11/16	11/19	11/24	11/30	12/03	12/10
16	11/15	11/22	11/28	12/01	12/05	12/09	12/14	12/21	12/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	174	167	162	157	153	149	144	139	132
32	194	187	181	177	172	168	163	158	151
28	219	211	206	201	196	191	186	180	171
24	247	238	232	226	221	217	212	206	197
20	278	268	260	254	249	243	237	230	221
16	311	300	292	285	279	273	266	259	249

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36	05/04	04/30	04/26	04/23	04/21	04/18	04/15	04/11	04/06
32	04/22	04/18	04/15	04/11	04/08	04/05	04/02	03/30	03/24
28	04/12	04/06	04/03	03/31	03/27	03/24	03/20	03/15	03/09
24	03/31	03/26	03/21	03/16	03/12	03/07	03/03	02/26	02/19
20	03/18	03/11	03/04	02/28	02/23	02/18	02/11	02/03	01/27
16	03/04	02/23	02/16	02/08	02/03	01/30	01/25	01/17	01/07
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28	10/24	10/30	11/02	11/06	11/09	11/13	11/18	11/24	12/01
24	11/03	11/11	11/17	11/22	11/28	12/01	12/05	12/10	12/19
20	11/22	12/01	12/04	12/07	12/12	12/17	12/24	12/31	01/08
16	12/05	12/11	12/18	12/24	12/29	01/02	01/09	01/16	01/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	202	194	189	185	181	177	172	167	160
32	225	217	212	208	204	200	195	190	183
28	254	245	238	233	228	223	217	212	204
24	289	279	271	265	258	252	246	239	229
20	325	313	305	298	292	285	279	271	260
16	356	344	335	330	323	316	309	301	290

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28	03/03	02/26	02/22	02/17	02/12	02/07	02/03	01/30	01/19
24	02/20	02/13	02/06	02/02	01/30	01/26	01/19	01/11	01/01
20	02/16	02/05	01/31	01/29	01/24	01/18	01/12	01/06	12/30
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24	12/15	12/24	12/29	01/03	01/08	01/14	01/20	01/27	02/03
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36	281	271	266	260	255	250	245	239	230
32	310	301	295	289	283	278	272	265	256
28	342	331	325	319	314	309	304	298	288
24	365	365	354	345	337	333	328	321	313
20	365	365	365	365	365	358	346	336	328
16	365	365	365	365	365	365	365	365	345

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28	04/04	03/29	03/25	03/21	03/17	03/13	03/08	03/04	02/26
24	03/23	03/15	03/09	03/04	02/28	02/25	02/20	02/14	02/05
20	03/06	02/27	02/21	02/15	02/10	02/04	01/31	01/26	01/15
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32	243	235	229	224	219	215	210	204	196
28	273	263	256	251	246	241	235	229	220
24	306	295	287	280	275	269	263	256	247
20	339	329	320	313	307	301	294	286	275
16	365	359	351	343	337	332	325	316	306

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/02	04/26	04/21	04/18	04/15	04/12	04/08	04/05	03/31
32	04/17	04/12	04/08	04/05	04/02	03/30	03/26	03/22	03/17
28	04/04	03/31	03/27	03/23	03/20	03/16	03/13	03/08	03/02
24	03/24	03/18	03/13	03/10	03/06	03/02	02/27	02/21	02/11
20	03/12	03/05	02/28	02/23	02/18	02/11	02/05	01/31	01/24
16	02/27	02/18	02/10	02/04	01/31	01/28	01/22	01/15	01/03
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	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/08
32	10/22	10/27	10/31	11/02	11/05	11/07	11/11	11/15	11/21
28	11/01	11/06	11/10	11/15	11/18	11/23	11/28	12/02	12/07
24	11/14	11/21	11/26	12/01	12/03	12/07	12/11	12/17	12/27
20	11/29	12/04	12/08	12/12	12/16	12/23	12/28	01/03	01/12
16	12/08	12/14	12/20	12/26	12/31	01/04	01/10	01/17	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	213	207	201	197	192	188	184	178	170
32	239	231	225	221	216	213	208	203	194
28	269	260	253	248	243	238	233	227	219
24	300	290	283	277	272	266	261	254	246
20	331	320	312	305	300	294	287	281	271
16	364	349	340	334	328	322	315	307	297

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/28	04/23	04/20	04/17	04/15	04/12	04/08	04/04	03/31
32	04/17	04/12	04/08	04/04	04/02	03/30	03/26	03/22	03/17
28	04/06	03/31	03/27	03/23	03/20	03/16	03/13	03/09	03/04
24	03/26	03/19	03/14	03/10	03/06	03/03	02/28	02/22	02/14
20	03/11	03/04	02/28	02/23	02/18	02/12	02/07	02/02	01/26
16	02/28	02/19	02/11	02/05	02/02	01/30	01/25	01/18	01/09
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	10/10	10/15	10/19	10/22	10/25	10/28	11/01	11/04	11/08
32	10/20	10/26	10/30	11/02	11/05	11/08	11/11	11/16	11/22
28	11/01	11/07	11/12	11/16	11/20	11/24	11/29	12/02	12/08
24	11/16	11/24	11/30	12/02	12/05	12/09	12/13	12/19	12/27
20	12/01	12/06	12/11	12/16	12/21	12/25	12/30	01/04	01/14
16	12/11	12/18	12/24	12/29	01/02	01/07	01/13	01/20	01/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	214	207	202	197	193	189	185	180	173
32	240	231	226	221	217	213	208	203	195
28	270	261	254	249	244	239	233	227	219
24	301	291	284	278	273	268	262	255	246
20	330	322	314	308	303	297	291	284	274
16	359	346	338	333	329	323	317	309	301

* 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

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Summary of Annual Normals 1981-2010

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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	05/10	05/04	05/01	04/28	04/25	04/22	04/19	04/16	04/11
32	04/28	04/23	04/19	04/16	04/14	04/10	04/07	04/04	03/30
28	04/15	04/10	04/06	04/03	03/31	03/28	03/24	03/20	03/15
24	04/05	03/30	03/25	03/21	03/17	03/13	03/09	03/04	02/27
20	03/22	03/15	03/10	03/05	03/01	02/25	02/20	02/13	02/04
16	03/09	02/28	02/23	02/17	02/10	02/04	01/31	01/26	01/15
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	10/03	10/07	10/10	10/13	10/16	10/18	10/22	10/25	10/31
32	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/09
28	10/23	10/29	11/01	11/04	11/06	11/09	11/13	11/17	11/25
24	11/04	11/10	11/13	11/17	11/21	11/26	12/01	12/04	12/10
20	11/16	11/23	11/29	12/02	12/05	12/09	12/14	12/21	12/31
16	12/01	12/06	12/11	12/16	12/21	12/27	01/01	01/08	01/18
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	186	181	177	173	169	165	160	153
32	216	209	204	200	195	191	187	181	174
28	244	236	230	225	221	216	212	207	199
24	276	267	260	254	250	244	239	233	224
20	309	299	291	285	279	273	267	260	250
16	341	331	323	316	309	304	297	289	278

* 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

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Summary of Annual Normals 1981-2010

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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	05/07	05/01	04/26	04/22	04/19	04/15	04/11	04/07	04/02
32	04/22	04/16	04/11	04/07	04/04	04/01	03/30	03/25	03/20
28	04/09	04/03	03/31	03/27	03/24	03/20	03/16	03/12	03/07
24	03/29	03/23	03/18	03/14	03/10	03/06	03/02	02/26	02/20
20	03/17	03/10	03/04	02/28	02/24	02/19	02/13	02/07	02/01
16	03/05	02/25	02/18	02/11	02/06	02/02	01/30	01/23	01/11
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	10/06	10/11	10/14	10/17	10/21	10/24	10/27	10/31	11/04
32	10/16	10/22	10/26	10/29	11/01	11/04	11/07	11/12	11/17
28	10/28	11/02	11/06	11/10	11/14	11/18	11/22	11/29	12/04
24	11/11	11/17	11/23	11/29	12/01	12/05	12/08	12/13	12/23
20	11/27	12/02	12/06	12/10	12/14	12/19	12/24	12/30	01/08
16	12/07	12/12	12/18	12/23	12/28	01/01	01/07	01/15	01/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	199	193	188	184	179	174	169	161
32	232	224	218	214	209	205	200	194	186
28	260	251	245	239	235	230	225	218	211
24	292	282	275	270	264	258	253	246	238
20	321	310	304	298	292	286	280	273	264
16	349	336	330	324	317	311	305	298	288

* 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

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Summary of Annual Normals 1981-2010

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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	05/02	04/26	04/23	04/20	04/17	04/14	04/11	04/07	04/01
32	04/21	04/15	04/11	04/08	04/04	04/01	03/29	03/24	03/18
28	04/09	04/03	03/30	03/26	03/21	03/18	03/14	03/10	03/04
24	03/28	03/21	03/16	03/11	03/07	03/03	02/28	02/23	02/15
20	03/14	03/06	03/01	02/25	02/19	02/14	02/07	02/01	01/25
16	03/01	02/20	02/13	02/06	02/01	01/29	01/23	01/15	01/02
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	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
32	10/20	10/24	10/28	10/31	11/03	11/05	11/08	11/12	11/19
28	10/30	11/03	11/07	11/10	11/14	11/18	11/22	11/27	12/03
24	11/09	11/15	11/20	11/25	11/30	12/03	12/06	12/11	12/21
20	11/23	12/01	12/04	12/08	12/13	12/18	12/24	12/31	01/08
16	12/05	12/12	12/18	12/23	12/29	01/02	01/08	01/16	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	204	198	194	190	185	181	175	168
32	235	228	222	217	212	208	204	198	191
28	263	254	248	243	237	232	227	221	213
24	295	284	277	271	266	260	254	247	238
20	327	316	308	302	295	289	282	275	264
16	359	346	337	331	325	318	311	303	293

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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	05/27	05/21	05/15	05/12	05/09	05/06	05/03	04/30	04/24
32	05/13	05/08	05/03	04/30	04/28	04/24	04/21	04/18	04/12
28	04/29	04/24	04/20	04/17	04/14	04/11	04/08	04/04	03/30
24	04/18	04/13	04/09	04/05	04/02	03/30	03/25	03/20	03/14
20	04/07	04/01	03/28	03/23	03/19	03/15	03/10	03/05	02/27
16	03/27	03/19	03/14	03/09	03/04	02/28	02/22	02/16	02/07
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	09/23	09/27	09/30	10/02	10/05	10/07	10/11	10/15	10/20
32	10/01	10/05	10/09	10/12	10/15	10/19	10/23	10/27	11/01
28	10/10	10/16	10/21	10/25	10/28	11/01	11/03	11/07	11/13
24	10/23	10/29	11/01	11/05	11/08	11/12	11/16	11/21	11/29
20	11/02	11/09	11/14	11/19	11/23	11/28	12/02	12/06	12/14
16	11/16	11/26	12/01	12/04	12/08	12/12	12/18	12/24	01/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	168	161	155	151	147	143	139	133	126
32	193	185	180	175	170	166	161	156	148
28	220	212	206	201	196	192	187	181	173
24	247	238	231	226	221	216	211	205	196
20	277	267	260	254	248	242	236	229	220
16	310	298	290	284	277	271	265	257	246

* 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

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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	05/04	04/30	04/25	04/22	04/19	04/16	04/13	04/09	04/03
32	04/23	04/17	04/13	04/10	04/06	04/03	03/31	03/26	03/20
28	04/10	04/05	03/31	03/28	03/24	03/20	03/15	03/10	03/04
24	03/30	03/23	03/17	03/13	03/09	03/05	03/01	02/25	02/17
20	03/17	03/09	03/03	02/27	02/22	02/17	02/10	02/03	01/26
16	03/01	02/22	02/16	02/10	02/04	01/31	01/26	01/19	01/06
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	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/05
32	10/17	10/23	10/26	10/29	11/01	11/04	11/07	11/11	11/17
28	10/28	11/02	11/05	11/08	11/12	11/16	11/20	11/27	12/03
24	11/07	11/13	11/18	11/23	11/28	12/01	12/05	12/10	12/19
20	11/20	11/28	12/02	12/06	12/10	12/15	12/22	12/30	01/07
16	12/04	12/10	12/15	12/21	12/28	01/01	01/07	01/16	01/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	199	193	189	184	180	176	170	163
32	231	223	217	212	208	203	198	192	184
28	260	250	244	238	233	228	223	217	209
24	291	280	273	267	261	255	250	243	234
20	324	312	305	298	291	285	279	271	261
16	356	342	334	328	321	314	308	300	290

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/17	05/11	05/08	05/04	05/01	04/28	04/24	04/20	04/15
32	05/05	04/30	04/25	04/21	04/18	04/15	04/11	04/07	04/01
28	04/21	04/15	04/11	04/07	04/03	03/31	03/27	03/22	03/14
24	04/08	04/01	03/28	03/24	03/19	03/14	03/09	03/02	02/23
20	03/25	03/17	03/11	03/05	02/28	02/23	02/18	02/12	02/04
16	03/12	03/02	02/24	02/18	02/12	02/06	02/02	01/28	01/16
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	10/01	10/05	10/09	10/12	10/15	10/18	10/22	10/25	11/01
32	10/10	10/15	10/20	10/23	10/26	10/29	11/01	11/04	11/09
28	10/21	10/27	10/31	11/03	11/05	11/09	11/12	11/17	11/24
24	11/02	11/07	11/12	11/16	11/21	11/25	12/01	12/04	12/12
20	11/14	11/22	11/29	12/02	12/06	12/10	12/16	12/24	01/01
16	11/30	12/06	12/11	12/16	12/22	12/26	12/31	01/06	01/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	188	180	175	170	166	161	157	152	144
32	212	204	199	194	189	184	179	174	166
28	243	232	226	221	216	211	206	200	192
24	278	268	260	253	247	241	235	228	218
20	311	300	293	286	280	273	266	259	248
16	337	328	321	314	307	301	294	286	275

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/28	04/22	04/18	04/15	04/12	04/09	04/05	04/01	03/26
32	04/15	04/09	04/05	04/01	03/28	03/24	03/20	03/15	03/10
28	04/03	03/26	03/19	03/14	03/10	03/06	03/02	02/27	02/20
24	03/16	03/08	03/02	02/26	02/22	02/17	02/11	02/05	01/31
20	03/02	02/23	02/16	02/09	02/04	02/01	01/28	01/20	01/10
16	02/18	02/07	02/02	01/30	01/25	01/20	01/15	01/08	12/30
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	10/14	10/19	10/22	10/26	10/29	11/01	11/03	11/06	11/12
32	10/24	10/30	11/02	11/05	11/08	11/12	11/15	11/20	11/29
28	11/05	11/11	11/15	11/20	11/25	11/30	12/03	12/08	12/16
24	11/20	11/29	12/03	12/06	12/10	12/15	12/21	12/28	01/06
20	12/06	12/11	12/17	12/23	12/28	01/01	01/07	01/15	01/25
16	12/12	12/21	12/28	01/02	01/07	01/13	01/19	01/25	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	221	213	208	203	199	195	190	185	177
32	251	242	236	230	225	220	215	209	201
28	287	277	270	264	258	252	246	239	229
24	321	311	304	298	292	286	280	272	262
20	351	339	333	327	321	315	308	301	292
16	365	365	361	351	344	337	332	326	315

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/17	04/10	04/05	04/01	03/29	03/26	03/22	03/17	03/11
32	04/03	03/28	03/23	03/19	03/15	03/11	03/06	03/02	02/24
28	03/23	03/16	03/10	03/04	02/28	02/24	02/19	02/12	02/03
24	03/10	02/28	02/22	02/16	02/09	02/03	01/30	01/24	01/14
20	02/28	02/15	02/05	01/31	01/29	01/24	01/18	01/12	01/04
16	02/13	02/01	01/30	01/26	01/22	01/17	01/13	01/07	12/31
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	11/07	11/13	11/17	11/21	11/24	11/27	12/01	12/04	12/10
32	11/19	11/25	11/30	12/02	12/06	12/09	12/14	12/19	12/27
28	12/02	12/07	12/12	12/17	12/22	12/26	12/31	01/04	01/13
24	12/14	12/22	12/27	12/31	01/03	01/08	01/14	01/21	02/01
20	12/26	01/01	01/04	01/09	01/14	01/19	01/23	01/29	02/07
16	12/29	01/03	01/08	01/13	01/17	01/21	01/25	01/30	02/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	262	254	248	243	238	233	229	223	215
32	291	282	275	270	265	260	254	248	239
28	321	311	304	299	293	287	281	275	265
24	357	341	334	328	321	314	307	300	290
20	365	365	365	359	348	340	334	328	312
16	365	365	365	365	365	365	362	347	335

* 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

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blank: missing or insufficient data

Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/03	04/27	04/23	04/19	04/16	04/13	04/10	04/06	04/01
32	04/21	04/14	04/09	04/06	04/03	03/31	03/27	03/23	03/16
28	04/09	04/02	03/28	03/24	03/19	03/15	03/10	03/05	02/28
24	03/27	03/17	03/11	03/05	03/01	02/26	02/21	02/15	02/05
20	03/09	02/28	02/22	02/16	02/09	02/03	01/30	01/23	01/12
16	02/24	02/11	02/03	01/31	01/27	01/21	01/15	01/08	12/31
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	10/16	10/22	10/26	10/29	11/01	11/03	11/06	11/10	11/16
32	10/27	11/01	11/04	11/08	11/11	11/15	11/19	11/25	12/02
28	11/06	11/12	11/17	11/22	11/28	12/01	12/03	12/08	12/16
24	11/20	11/29	12/02	12/05	12/10	12/15	12/20	12/26	01/03
20	12/03	12/11	12/16	12/22	12/27	01/01	01/05	01/13	01/23
16	12/14	12/23	12/29	01/02	01/06	01/12	01/18	01/24	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	219	211	206	201	196	192	187	181	173
32	248	240	233	227	222	217	212	205	196
28	279	269	262	256	250	244	238	231	221
24	313	302	295	288	281	275	268	260	249
20	347	334	328	320	314	307	301	292	281
16	365	365	358	349	341	335	330	322	308

* 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

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Summary of Annual Normals 1981-2010

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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	05/23	05/18	05/13	05/10	05/07	05/04	05/01	04/28	04/22
32	05/12	05/07	05/03	04/30	04/26	04/23	04/19	04/14	04/08
28	04/30	04/22	04/18	04/14	04/11	04/07	04/04	03/31	03/25
24	04/15	04/09	04/05	04/01	03/29	03/25	03/21	03/16	03/08
20	04/02	03/28	03/22	03/18	03/13	03/08	03/03	02/27	02/20
16	03/21	03/13	03/07	03/02	02/25	02/20	02/15	02/09	02/01
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	09/20	09/25	09/29	10/01	10/04	10/07	10/10	10/14	10/21
32	09/29	10/04	10/08	10/11	10/14	10/18	10/22	10/27	11/01
28	10/09	10/14	10/18	10/22	10/25	10/29	11/01	11/05	11/11
24	10/19	10/26	10/31	11/03	11/06	11/10	11/14	11/19	11/28
20	11/02	11/08	11/13	11/17	11/21	11/26	12/01	12/04	12/11
16	11/17	11/25	11/30	12/03	12/06	12/10	12/15	12/21	12/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	170	162	157	152	148	143	139	133	126
32	195	186	180	175	170	165	160	154	146
28	221	212	206	201	197	192	187	181	172
24	249	240	233	227	222	217	212	205	197
20	280	271	263	257	251	246	240	233	223
16	312	302	294	288	282	277	270	263	253

* 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

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Summary of Annual Normals 1981-2010

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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	04/29	04/23	04/19	04/15	04/11	04/08	04/04	04/01	03/25
32	04/16	04/11	04/06	04/02	03/30	03/26	03/21	03/17	03/11
28	04/04	03/29	03/23	03/18	03/14	03/09	03/05	02/28	02/21
24	03/20	03/12	03/05	02/28	02/24	02/19	02/13	02/05	01/30
20	03/02	02/23	02/15	02/07	02/03	01/31	01/25	01/17	01/06
16	02/12	02/03	01/31	01/27	01/21	01/15	01/09	01/02	12/24
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	10/11	10/16	10/21	10/24	10/27	10/30	11/01	11/05	11/10
32	10/21	10/27	10/30	11/02	11/05	11/08	11/11	11/15	11/21
28	11/01	11/05	11/09	11/13	11/17	11/20	11/25	11/30	12/05
24	11/12	11/19	11/24	11/29	12/02	12/05	12/10	12/16	12/28
20	11/30	12/03	12/08	12/13	12/18	12/23	12/29	01/05	01/16
16	12/09	12/14	12/21	12/26	12/31	01/04	01/11	01/19	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	219	212	206	202	197	192	187	182	174
32	244	236	230	225	220	215	210	205	197
28	275	265	259	253	247	242	236	229	220
24	313	302	294	287	280	274	268	260	249
20	348	336	330	323	316	309	302	294	282
16	365	365	358	350	343	337	333	327	315

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Summary of Annual Normals 1981-2010

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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	05/04	04/29	04/24	04/21	04/18	04/15	04/12	04/09	04/04
32	04/21	04/15	04/11	04/08	04/05	04/01	03/29	03/25	03/19
28	04/07	04/02	03/30	03/26	03/22	03/18	03/14	03/10	03/05
24	03/27	03/20	03/16	03/11	03/07	03/03	02/28	02/24	02/16
20	03/14	03/08	03/02	02/27	02/22	02/17	02/11	02/05	01/31
16	03/02	02/23	02/16	02/10	02/05	02/01	01/28	01/20	01/09
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	10/07	10/11	10/15	10/17	10/20	10/23	10/26	10/30	11/03
32	10/16	10/21	10/24	10/27	10/30	11/01	11/04	11/08	11/12
28	10/26	10/31	11/03	11/06	11/10	11/13	11/16	11/20	11/28
24	11/07	11/13	11/17	11/21	11/25	11/29	12/02	12/06	12/14
20	11/22	11/30	12/03	12/06	12/10	12/14	12/19	12/25	01/02
16	12/05	12/11	12/16	12/21	12/26	12/31	01/05	01/14	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	198	193	188	184	180	176	171	164
32	228	221	216	212	207	203	199	194	187
28	256	248	242	237	232	227	223	217	209
24	288	279	272	266	261	256	250	244	235
20	321	310	303	297	291	285	279	272	262
16	353	340	333	327	320	314	307	300	289

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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	04/20	04/15	04/11	04/08	04/05	04/02	03/31	03/26	03/21
32	04/09	04/03	03/31	03/27	03/23	03/19	03/16	03/11	03/06
28	03/27	03/21	03/15	03/11	03/07	03/03	02/28	02/25	02/18
24	03/15	03/07	03/02	02/26	02/22	02/16	02/09	02/03	01/27
20	03/01	02/21	02/13	02/05	02/01	01/30	01/24	01/16	01/05
16	02/14	02/04	01/31	01/28	01/23	01/18	01/13	01/05	12/29
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	10/16	10/22	10/25	10/29	11/01	11/03	11/05	11/10	11/15
32	10/27	11/01	11/04	11/07	11/11	11/14	11/18	11/24	12/01
28	11/05	11/13	11/17	11/22	11/28	12/01	12/04	12/09	12/17
24	11/22	12/01	12/04	12/08	12/12	12/17	12/23	12/30	01/06
20	12/07	12/13	12/18	12/24	12/29	01/01	01/07	01/14	01/25
16	12/15	12/23	12/29	01/01	01/06	01/13	01/18	01/24	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	229	221	216	212	208	204	199	194	187
32	257	248	242	237	232	227	222	216	208
28	290	280	274	268	262	257	251	245	235
24	326	314	306	300	294	287	281	274	263
20	358	346	337	332	327	320	313	306	295
16	365	365	365	357	350	342	335	331	320

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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	05/06	05/02	04/29	04/26	04/23	04/21	04/18	04/15	04/10
32	04/25	04/21	04/17	04/14	04/11	04/08	04/05	04/02	03/27
28	04/14	04/08	04/05	04/02	03/31	03/27	03/23	03/19	03/14
24	04/03	03/29	03/24	03/20	03/16	03/12	03/08	03/03	02/25
20	03/23	03/15	03/10	03/05	02/28	02/24	02/17	02/08	01/31
16	03/09	02/28	02/22	02/14	02/06	02/01	01/28	01/21	01/11
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	10/07	10/11	10/14	10/17	10/20	10/23	10/26	10/31	11/04
32	10/15	10/20	10/24	10/27	10/30	11/01	11/05	11/09	11/15
28	10/25	10/31	11/04	11/07	11/12	11/15	11/19	11/25	12/01
24	11/07	11/14	11/19	11/25	11/30	12/02	12/05	12/10	12/19
20	11/25	12/01	12/05	12/08	12/12	12/18	12/23	12/29	01/06
16	12/07	12/12	12/18	12/24	12/29	01/02	01/07	01/15	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	192	187	182	178	174	170	165	159
32	223	215	209	204	200	196	191	186	179
28	251	242	235	230	225	220	215	209	201
24	283	273	266	260	254	249	243	236	226
20	318	307	299	293	286	280	274	266	255
16	350	339	332	325	318	310	303	295	284

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/09	05/04	05/01	04/28	04/25	04/22	04/19	04/15	04/11
32	04/30	04/24	04/20	04/16	04/14	04/10	04/07	04/03	03/29
28	04/17	04/11	04/07	04/04	04/01	03/28	03/24	03/20	03/14
24	04/04	03/30	03/25	03/20	03/17	03/13	03/09	03/04	02/27
20	03/23	03/16	03/11	03/07	03/02	02/27	02/21	02/15	02/05
16	03/13	03/03	02/25	02/18	02/12	02/05	01/31	01/26	01/15
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	10/01	10/06	10/09	10/12	10/14	10/17	10/20	10/23	10/29
32	10/09	10/14	10/17	10/20	10/23	10/26	10/30	11/02	11/06
28	10/18	10/24	10/28	11/01	11/03	11/06	11/09	11/15	11/22
24	11/01	11/05	11/09	11/13	11/17	11/21	11/27	12/01	12/06
20	11/12	11/19	11/24	11/30	12/02	12/05	12/09	12/14	12/25
16	11/27	12/02	12/06	12/10	12/14	12/19	12/25	01/01	01/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	192	185	180	176	172	168	164	159	152
32	214	207	201	197	192	188	183	178	171
28	241	232	226	221	216	211	207	201	193
24	272	263	256	250	245	240	234	227	219
20	305	294	286	280	274	268	262	255	246
16	335	325	317	309	303	297	289	281	270

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/25	04/20	04/17	04/14	04/11	04/08	04/04	03/31	03/25
32	04/15	04/10	04/05	04/02	03/29	03/25	03/21	03/16	03/10
28	04/04	03/28	03/22	03/17	03/12	03/07	03/03	02/27	02/20
24	03/16	03/08	03/02	02/27	02/22	02/17	02/11	02/05	01/30
20	02/28	02/19	02/11	02/05	02/01	01/29	01/22	01/14	01/01
16	02/09	02/01	01/29	01/23	01/18	01/11	01/03	12/30	12/21
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	10/12	10/17	10/21	10/24	10/27	10/30	11/01	11/05	11/11
32	10/21	10/26	10/31	11/02	11/05	11/09	11/13	11/17	11/24
28	11/01	11/05	11/10	11/14	11/18	11/23	11/28	12/02	12/09
24	11/13	11/20	11/26	12/01	12/03	12/07	12/12	12/20	01/01
20	11/30	12/04	12/09	12/14	12/20	12/26	01/01	01/08	01/20
16	12/08	12/14	12/21	12/26	12/31	01/05	01/13	01/21	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	221	213	208	203	199	194	190	185	177
32	248	239	232	226	221	216	211	205	197
28	279	270	263	257	251	245	239	232	222
24	317	306	298	291	285	278	272	264	253
20	354	342	334	328	321	314	307	299	287
16	365	365	365	359	351	344	337	332	320

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/16	04/10	04/05	04/02	03/30	03/26	03/22	03/17	03/12
32	04/05	03/29	03/23	03/18	03/14	03/10	03/06	03/02	02/24
28	03/19	03/12	03/06	03/02	02/27	02/23	02/18	02/12	02/03
24	03/04	02/26	02/21	02/16	02/10	02/05	02/01	01/26	01/15
20	02/22	02/13	02/05	02/01	01/30	01/25	01/19	01/11	01/02
16	02/10	02/03	01/31	01/27	01/22	01/17	01/11	01/06	12/30
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	10/31	11/05	11/09	11/13	11/17	11/21	11/25	11/30	12/04
32	11/11	11/18	11/24	11/28	12/01	12/03	12/07	12/12	12/19
28	11/25	12/01	12/05	12/09	12/13	12/17	12/22	12/28	01/05
24	12/05	12/11	12/17	12/22	12/27	01/01	01/06	01/14	01/24
20	12/13	12/22	12/29	01/02	01/08	01/14	01/20	01/25	02/02
16	12/20	12/30	01/03	01/10	01/15	01/20	01/24	01/29	02/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	257	248	242	237	232	227	222	216	208
32	286	277	271	265	260	255	249	242	232
28	317	307	301	294	289	283	277	270	260
24	347	334	329	322	316	310	305	297	287
20	365	365	355	346	339	334	329	321	311
16	365	365	365	365	365	359	348	339	331

* 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

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blank: missing or insufficient data

Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/30	04/25	04/21	04/18	04/15	04/13	04/09	04/06	04/01
32	04/19	04/14	04/10	04/07	04/04	03/31	03/28	03/23	03/18
28	04/11	04/05	03/31	03/27	03/23	03/18	03/15	03/10	03/03
24	03/30	03/22	03/16	03/10	03/06	03/01	02/26	02/19	02/07
20	03/13	03/05	02/28	02/22	02/16	02/08	02/03	01/30	01/19
16	02/28	02/19	02/10	02/04	01/31	01/27	01/21	01/13	01/03
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	10/12	10/17	10/21	10/25	10/28	10/31	11/03	11/07	11/13
32	10/23	10/29	11/01	11/05	11/09	11/13	11/17	11/22	11/30
28	11/04	11/11	11/16	11/21	11/26	11/30	12/03	12/07	12/14
24	11/20	11/27	12/01	12/04	12/08	12/12	12/17	12/24	01/01
20	12/01	12/07	12/12	12/17	12/22	12/27	01/01	01/08	01/18
16	12/11	12/18	12/24	12/29	01/03	01/08	01/15	01/22	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	209	203	199	194	190	186	180	173
32	244	236	230	224	219	215	210	204	196
28	274	264	257	251	246	241	235	228	220
24	307	297	289	282	276	270	264	257	247
20	337	327	320	312	305	299	293	285	275
16	365	355	346	338	332	327	319	310	300

* 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

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Summary of Annual Normals 1981-2010

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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	04/24	04/19	04/15	04/13	04/10	04/06	04/03	03/31	03/24
32	04/15	04/09	04/05	04/01	03/28	03/24	03/20	03/16	03/09
28	04/03	03/28	03/22	03/17	03/13	03/08	03/03	02/27	02/20
24	03/18	03/10	03/04	02/28	02/23	02/18	02/10	02/03	01/27
20	02/28	02/21	02/13	02/06	02/01	01/29	01/23	01/16	01/05
16	02/16	02/06	02/01	01/28	01/22	01/16	01/10	01/03	12/25
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	10/12	10/17	10/22	10/25	10/28	10/31	11/02	11/06	11/12
32	10/22	10/28	11/01	11/04	11/07	11/11	11/15	11/20	11/28
28	11/03	11/09	11/13	11/18	11/22	11/27	12/01	12/05	12/11
24	11/16	11/24	11/30	12/03	12/05	12/10	12/15	12/22	01/01
20	12/01	12/06	12/11	12/16	12/21	12/26	01/01	01/08	01/18
16	12/11	12/17	12/23	12/28	01/01	01/07	01/14	01/21	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	222	214	209	204	200	196	192	187	179
32	249	241	234	228	224	219	214	208	200
28	282	272	264	258	253	247	241	234	225
24	318	307	299	292	286	280	273	266	256
20	350	338	332	325	319	312	306	297	286
16	365	365	358	351	344	337	332	324	314

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/20	05/13	05/09	05/06	05/04	05/01	04/28	04/24	04/19
32	05/08	05/02	04/29	04/26	04/23	04/19	04/16	04/12	04/06
28	04/26	04/21	04/17	04/13	04/10	04/06	04/02	03/30	03/23
24	04/16	04/10	04/05	04/01	03/29	03/24	03/19	03/14	03/04
20	04/05	03/29	03/23	03/17	03/12	03/05	02/28	02/22	02/13
16	03/23	03/14	03/05	02/27	02/21	02/15	02/09	02/03	01/26
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	10/01	10/04	10/07	10/09	10/12	10/15	10/17	10/21	10/27
32	10/06	10/11	10/14	10/18	10/21	10/24	10/27	11/01	11/04
28	10/15	10/21	10/25	10/28	10/31	11/02	11/05	11/09	11/17
24	10/27	11/01	11/05	11/09	11/12	11/16	11/20	11/26	12/03
20	11/09	11/15	11/20	11/24	11/29	12/01	12/05	12/11	12/21
16	11/22	12/01	12/03	12/07	12/11	12/17	12/22	12/29	01/06
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	181	174	168	164	160	156	151	146	140
32	203	195	189	184	180	176	171	166	158
28	228	219	213	208	204	199	194	188	180
24	259	249	241	235	230	225	219	213	204
20	294	282	274	267	260	254	248	240	230
16	325	314	306	299	292	285	278	270	258

* 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

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Summary of Annual Normals 1981-2010

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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	04/30	04/25	04/21	04/18	04/15	04/12	04/09	04/05	03/31
32	04/19	04/14	04/10	04/06	04/03	03/31	03/29	03/24	03/19
28	04/08	04/03	03/31	03/27	03/23	03/20	03/16	03/11	03/04
24	03/30	03/23	03/18	03/14	03/10	03/05	03/01	02/25	02/16
20	03/17	03/10	03/04	02/28	02/23	02/17	02/10	02/04	01/29
16	03/04	02/24	02/16	02/09	02/04	01/31	01/27	01/19	01/08
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	10/07	10/12	10/17	10/20	10/24	10/27	10/30	11/03	11/07
32	10/17	10/24	10/28	11/01	11/03	11/06	11/10	11/14	11/20
28	10/29	11/03	11/08	11/12	11/16	11/20	11/25	12/01	12/05
24	11/09	11/17	11/23	11/28	12/01	12/04	12/08	12/13	12/22
20	11/25	12/02	12/06	12/10	12/14	12/18	12/24	12/29	01/07
16	12/05	12/11	12/16	12/22	12/27	01/01	01/06	01/14	01/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	205	199	195	191	187	182	176	169
32	237	229	223	218	214	210	205	199	192
28	265	256	249	244	238	233	228	221	212
24	295	285	277	272	266	260	254	247	237
20	325	315	307	301	295	289	282	275	264
16	354	341	334	328	322	315	308	301	290

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Summary of Annual Normals 1981-2010

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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	05/05	04/30	04/25	04/22	04/19	04/16	04/13	04/10	04/04
32	04/22	04/16	04/12	04/09	04/06	04/03	03/31	03/26	03/20
28	04/10	04/05	04/01	03/28	03/24	03/20	03/16	03/12	03/06
24	03/30	03/23	03/17	03/13	03/09	03/05	03/01	02/26	02/19
20	03/15	03/07	03/02	02/26	02/22	02/17	02/11	02/04	01/27
16	03/02	02/23	02/15	02/07	02/03	01/31	01/24	01/15	01/03
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	10/08	10/13	10/16	10/20	10/23	10/26	10/30	11/02	11/06
32	10/16	10/22	10/27	10/30	11/01	11/04	11/08	11/12	11/18
28	10/28	11/01	11/05	11/09	11/13	11/17	11/21	11/28	12/03
24	11/09	11/15	11/20	11/25	11/29	12/02	12/05	12/11	12/21
20	11/23	12/01	12/03	12/07	12/11	12/16	12/23	12/30	01/07
16	12/04	12/10	12/16	12/22	12/27	01/01	01/07	01/15	01/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	208	201	195	191	186	182	177	172	164
32	232	224	218	213	209	204	199	194	187
28	260	251	245	239	234	229	224	218	209
24	291	281	274	268	263	257	251	244	235
20	325	313	306	299	293	287	280	273	264
16	357	345	336	330	324	317	309	302	291

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Summary of Annual Normals 1981-2010

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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	04/26	04/20	04/16	04/13	04/10	04/06	04/02	03/29	03/22
32	04/15	04/08	04/03	03/31	03/26	03/22	03/17	03/12	03/05
28	04/02	03/25	03/18	03/13	03/08	03/03	02/28	02/22	02/14
24	03/15	03/05	02/28	02/23	02/17	02/11	02/05	01/31	01/22
20	02/25	02/15	02/06	02/02	01/30	01/25	01/19	01/11	12/31
16	02/06	02/01	01/29	01/24	01/19	01/14	01/08	01/01	12/24
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	10/14	10/19	10/23	10/26	10/29	11/01	11/04	11/07	11/13
32	10/24	10/29	11/01	11/04	11/07	11/11	11/14	11/18	11/26
28	11/02	11/08	11/12	11/16	11/20	11/25	12/01	12/05	12/14
24	11/15	11/22	11/29	12/03	12/07	12/13	12/20	12/29	01/07
20	12/01	12/08	12/14	12/21	12/27	01/01	01/07	01/14	01/26
16	12/11	12/20	12/27	01/01	01/05	01/10	01/16	01/22	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	225	217	211	207	202	198	193	187	179
32	253	243	237	231	226	221	215	209	201
28	287	276	268	261	255	249	243	236	226
24	327	315	306	299	292	284	277	269	257
20	363	350	340	334	329	322	315	306	295
16	365	365	365	364	357	349	342	335	329

* 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

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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	05/11	05/06	05/03	05/01	04/28	04/25	04/22	04/18	04/13
32	05/01	04/26	04/22	04/19	04/16	04/13	04/10	04/06	03/31
28	04/21	04/15	04/11	04/07	04/04	03/31	03/27	03/22	03/16
24	04/09	04/03	03/29	03/24	03/19	03/15	03/11	03/05	02/28
20	03/28	03/18	03/12	03/06	03/02	02/26	02/22	02/15	02/04
16	03/07	02/28	02/23	02/17	02/09	02/03	01/30	01/23	01/12
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	10/06	10/10	10/13	10/16	10/18	10/21	10/24	10/28	11/01
32	10/13	10/17	10/21	10/24	10/27	10/30	11/01	11/04	11/10
28	10/21	10/26	10/30	11/02	11/04	11/08	11/12	11/16	11/23
24	11/01	11/05	11/10	11/13	11/17	11/21	11/27	12/02	12/08
20	11/13	11/19	11/25	11/30	12/03	12/07	12/13	12/21	01/01
16	11/28	12/04	12/09	12/14	12/20	12/27	01/01	01/09	01/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	186	182	177	173	169	166	161	155
32	214	207	202	197	193	189	184	179	172
28	240	232	226	221	216	211	206	201	193
24	272	262	255	249	243	237	231	225	216
20	308	296	288	281	275	268	261	254	243
16	343	332	324	316	309	303	296	288	276

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/04	04/28	04/21	04/18	04/14	04/11	04/07	04/03	03/30
32	04/22	04/13	04/08	04/04	04/01	03/29	03/25	03/20	03/15
28	04/09	04/02	03/28	03/22	03/18	03/14	03/11	03/06	02/28
24	03/28	03/19	03/13	03/07	03/03	02/28	02/23	02/17	02/08
20	03/14	03/04	02/26	02/18	02/11	02/06	02/02	01/29	01/17
16	03/06	02/20	02/09	02/03	01/31	01/26	01/19	01/12	01/01
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	10/07	10/13	10/18	10/22	10/26	10/29	11/01	11/05	11/10
32	10/17	10/24	10/29	11/02	11/06	11/09	11/13	11/18	11/26
28	10/30	11/07	11/13	11/18	11/22	11/27	12/01	12/04	12/11
24	11/19	11/25	12/01	12/03	12/07	12/10	12/15	12/21	12/28
20	12/01	12/07	12/12	12/16	12/21	12/26	12/31	01/07	01/18
16	12/09	12/17	12/25	12/30	01/03	01/10	01/17	01/24	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	215	207	202	196	192	186	181	174	165
32	243	234	227	222	216	211	205	199	189
28	273	264	257	251	245	239	233	225	214
24	306	297	289	283	277	271	265	257	246
20	338	329	321	314	308	302	295	287	275
16	365	357	347	339	333	328	320	310	298

* 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

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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	05/11	05/05	05/02	04/29	04/26	04/23	04/19	04/16	04/10
32	04/28	04/23	04/19	04/16	04/13	04/10	04/06	04/02	03/29
28	04/17	04/12	04/08	04/04	04/01	03/29	03/26	03/22	03/16
24	04/06	03/31	03/27	03/23	03/19	03/16	03/11	03/05	02/27
20	03/24	03/17	03/12	03/07	03/02	02/27	02/21	02/15	02/06
16	03/14	03/03	02/24	02/18	02/12	02/06	02/02	01/29	01/19
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	10/02	10/06	10/09	10/11	10/14	10/17	10/20	10/24	10/29
32	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/02	11/06
28	10/19	10/25	10/29	11/01	11/03	11/06	11/09	11/13	11/21
24	11/01	11/05	11/09	11/13	11/16	11/20	11/25	12/01	12/05
20	11/13	11/19	11/24	11/29	12/01	12/05	12/09	12/14	12/25
16	11/27	12/02	12/06	12/10	12/14	12/20	12/26	01/01	01/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	183	178	174	170	165	161	156	149
32	213	206	201	196	192	188	184	178	171
28	238	230	224	219	215	211	207	201	194
24	269	259	253	247	242	237	231	225	217
20	304	293	286	279	274	268	262	255	246
16	334	325	317	310	304	297	291	282	271

* 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 09/18/2019

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	05/20	05/14	05/10	05/07	05/05	05/02	04/30	04/25	04/20
32	05/09	05/04	05/01	04/27	04/23	04/20	04/17	04/13	04/07
28	04/27	04/20	04/16	04/12	04/09	04/05	04/01	03/29	03/23
24	04/12	04/06	04/02	03/30	03/26	03/22	03/18	03/13	03/06
20	03/30	03/24	03/19	03/15	03/10	03/05	02/28	02/22	02/13
16	03/18	03/10	03/02	02/25	02/19	02/13	02/07	02/02	01/25
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	09/25	09/30	10/03	10/06	10/08	10/11	10/14	10/17	10/22
32	10/03	10/07	10/11	10/15	10/18	10/21	10/24	10/28	11/01
28	10/12	10/19	10/23	10/26	10/30	11/01	11/03	11/07	11/14
24	10/27	11/01	11/04	11/07	11/11	11/14	11/18	11/24	12/01
20	11/09	11/14	11/19	11/23	11/28	12/01	12/04	12/09	12/18
16	11/21	11/29	12/02	12/06	12/10	12/15	12/21	12/28	01/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	169	163	159	155	151	146	142	135
32	199	191	186	181	176	172	167	161	154
28	226	218	212	207	202	198	192	187	178
24	258	249	242	236	231	226	220	214	206
20	294	282	275	268	262	256	250	243	234
16	326	315	307	299	293	286	279	271	260

* 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

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Summary of Annual Normals 1981-2010

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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	05/11	05/05	05/01	04/28	04/24	04/21	04/19	04/15	04/10
32	04/30	04/23	04/19	04/16	04/12	04/09	04/06	04/02	03/28
28	04/16	04/10	04/06	04/02	03/31	03/27	03/23	03/19	03/14
24	04/03	03/29	03/24	03/20	03/17	03/13	03/09	03/04	02/27
20	03/21	03/15	03/10	03/05	03/01	02/26	02/21	02/14	02/06
16	03/10	03/01	02/23	02/17	02/10	02/05	02/01	01/28	01/16
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	10/03	10/07	10/10	10/13	10/16	10/19	10/23	10/26	11/01
32	10/10	10/15	10/19	10/23	10/25	10/28	11/01	11/04	11/09
28	10/20	10/26	10/30	11/01	11/04	11/08	11/11	11/16	11/23
24	10/31	11/06	11/10	11/14	11/18	11/22	11/27	12/01	12/07
20	11/14	11/20	11/26	12/01	12/03	12/06	12/11	12/17	12/26
16	11/30	12/04	12/09	12/13	12/18	12/24	12/29	01/03	01/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	187	182	177	173	169	165	159	153
32	217	210	204	200	195	191	186	181	173
28	243	235	229	224	219	215	210	204	197
24	273	264	257	251	246	241	235	229	221
20	305	295	288	282	276	270	264	258	248
16	337	327	320	313	306	300	293	286	276

* 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

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Summary of Annual Normals 1981-2010

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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	04/29	04/23	04/19	04/15	04/12	04/09	04/05	04/01	03/26
32	04/19	04/12	04/08	04/04	04/01	03/29	03/23	03/18	03/12
28	04/10	04/04	03/30	03/23	03/18	03/13	03/08	03/03	02/26
24	04/01	03/19	03/11	03/04	02/28	02/24	02/18	02/09	01/31
20	03/08	02/28	02/21	02/13	02/05	01/31	01/27	01/19	01/07
16	02/21	02/09	02/01	01/29	01/24	01/18	01/12	01/04	12/27
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	10/14	10/20	10/24	10/27	10/30	11/01	11/04	11/08	11/14
32	10/25	10/31	11/03	11/06	11/09	11/13	11/17	11/22	12/01
28	11/04	11/10	11/15	11/20	11/24	11/30	12/02	12/06	12/14
24	11/17	11/26	12/01	12/04	12/08	12/12	12/18	12/25	01/02
20	12/01	12/07	12/13	12/18	12/24	12/30	01/03	01/10	01/21
16	12/11	12/18	12/25	12/30	01/03	01/08	01/15	01/22	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	223	214	209	204	200	195	190	184	177
32	249	241	234	228	223	218	213	207	199
28	279	269	261	255	249	243	237	230	220
24	315	303	294	287	280	273	266	258	247
20	351	337	330	322	314	306	299	290	277
16	365	365	362	352	344	337	332	322	309

* 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

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Summary of Annual Normals 1981-2010

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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	05/09	05/04	04/30	04/26	04/23	04/20	04/17	04/13	04/08
32	04/26	04/21	04/17	04/13	04/10	04/07	04/03	03/31	03/24
28	04/12	04/07	04/03	03/31	03/27	03/23	03/18	03/13	03/04
24	03/31	03/25	03/19	03/14	03/09	03/05	02/28	02/23	02/16
20	03/19	03/12	03/05	02/28	02/22	02/17	02/12	02/06	01/31
16	03/08	02/27	02/19	02/12	02/07	02/03	01/31	01/23	01/12
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	10/07	10/11	10/15	10/17	10/20	10/23	10/25	10/29	11/03
32	10/16	10/22	10/25	10/28	10/31	11/02	11/05	11/09	11/14
28	10/29	11/02	11/06	11/09	11/13	11/16	11/20	11/25	12/01
24	11/11	11/17	11/22	11/27	11/30	12/03	12/06	12/12	12/20
20	11/25	12/01	12/05	12/09	12/13	12/18	12/24	12/29	01/06
16	12/05	12/11	12/17	12/22	12/26	12/31	01/05	01/13	01/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	201	193	188	183	179	175	171	165	158
32	227	218	213	208	204	200	195	189	182
28	259	249	243	237	232	227	222	216	208
24	292	282	275	269	264	258	252	246	236
20	321	311	304	298	291	285	279	271	261
16	346	333	328	322	315	308	302	294	283

* 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

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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	05/08	05/02	04/28	04/24	04/20	04/17	04/14	04/10	04/04
32	05/01	04/21	04/17	04/13	04/09	04/05	04/01	03/29	03/23
28	04/18	04/10	04/05	03/31	03/28	03/24	03/21	03/17	03/11
24	04/05	03/29	03/23	03/19	03/15	03/11	03/07	03/02	02/25
20	03/22	03/14	03/08	03/03	02/28	02/24	02/19	02/10	02/02
16	03/07	02/28	02/20	02/14	02/07	02/02	01/30	01/23	01/13
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	10/05	10/10	10/14	10/17	10/20	10/23	10/26	10/29	11/03
32	10/15	10/20	10/24	10/27	10/30	11/01	11/04	11/07	11/13
28	10/25	10/30	11/02	11/05	11/08	11/12	11/15	11/19	11/26
24	11/03	11/09	11/14	11/17	11/21	11/25	11/30	12/03	12/10
20	11/16	11/23	11/28	12/01	12/05	12/09	12/14	12/21	12/31
16	12/01	12/06	12/11	12/16	12/22	12/27	01/01	01/06	01/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	203	196	191	186	182	177	172	167	158
32	224	217	212	208	203	199	194	188	178
28	248	240	235	230	225	221	216	210	201
24	276	267	261	255	250	245	239	233	224
20	310	300	292	286	280	274	268	260	251
16	342	332	325	318	312	305	298	291	279

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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	05/22	05/15	05/11	05/08	05/06	05/03	04/30	04/27	04/22
32	05/09	05/05	05/01	04/28	04/25	04/22	04/19	04/16	04/11
28	04/29	04/23	04/19	04/16	04/13	04/10	04/07	04/02	03/28
24	04/16	04/11	04/07	04/03	03/31	03/28	03/24	03/20	03/13
20	04/05	03/31	03/26	03/22	03/18	03/13	03/07	03/01	02/22
16	03/25	03/18	03/12	03/06	03/01	02/24	02/19	02/12	02/03
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	09/28	10/01	10/04	10/06	10/09	10/12	10/14	10/17	10/23
32	10/04	10/08	10/12	10/15	10/18	10/21	10/24	10/27	11/01
28	10/12	10/17	10/21	10/25	10/27	10/31	11/02	11/05	11/10
24	10/23	10/28	11/01	11/03	11/06	11/10	11/13	11/18	11/26
20	11/03	11/10	11/15	11/18	11/22	11/26	12/01	12/04	12/11
16	11/18	11/25	11/30	12/02	12/05	12/09	12/14	12/21	12/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	174	167	162	158	154	150	146	141	135
32	194	187	182	178	174	170	165	161	154
28	219	211	205	201	196	192	187	182	174
24	247	238	231	226	221	216	211	206	198
20	280	269	262	256	250	245	239	232	224
16	311	300	293	286	280	274	268	260	250

* 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

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/19	04/14	04/10	04/07	04/04	04/01	03/29	03/24	03/18
32	04/10	04/04	03/31	03/27	03/23	03/19	03/14	03/08	03/02
28	03/28	03/21	03/15	03/10	03/05	03/01	02/26	02/21	02/11
24	03/12	03/04	02/27	02/21	02/16	02/10	02/04	01/30	01/19
20	02/23	02/15	02/07	02/02	01/30	01/25	01/18	01/10	12/31
16	02/14	02/04	01/31	01/26	01/20	01/13	01/07	01/01	12/24
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	10/23	10/28	11/01	11/04	11/08	11/12	11/16	11/20	11/27
32	11/01	11/09	11/14	11/18	11/22	11/26	12/01	12/04	12/11
28	11/18	11/25	11/30	12/02	12/05	12/10	12/15	12/21	01/01
24	12/01	12/06	12/11	12/16	12/21	12/26	01/01	01/07	01/18
20	12/09	12/16	12/23	12/28	01/02	01/07	01/14	01/22	02/01
16	12/14	12/23	12/30	01/03	01/08	01/15	01/22	01/28	02/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	243	234	228	223	219	214	210	204	196
32	271	262	255	249	244	239	233	227	217
28	304	293	286	279	274	268	262	255	245
24	336	327	318	311	305	300	293	286	275
20	365	358	348	340	334	329	322	314	305
16	365	365	365	365	362	353	344	335	326

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	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/15	05/10	05/06	05/03	04/30	04/28	04/24	04/21	04/16
32	05/05	04/30	04/26	04/22	04/18	04/15	04/12	04/07	04/02
28	04/21	04/15	04/11	04/07	04/03	03/31	03/28	03/23	03/18
24	04/08	04/01	03/28	03/23	03/19	03/16	03/11	03/06	02/28
20	03/25	03/17	03/11	03/06	03/02	02/27	02/21	02/16	02/08
16	03/12	03/02	02/23	02/17	02/11	02/06	02/03	01/30	01/20
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	09/29	10/02	10/06	10/10	10/13	10/16	10/19	10/24	10/30
32	10/08	10/13	10/17	10/20	10/24	10/27	10/31	11/02	11/06
28	10/19	10/24	10/28	11/01	11/03	11/05	11/09	11/13	11/20
24	11/01	11/05	11/09	11/13	11/16	11/20	11/25	12/01	12/06
20	11/13	11/20	11/26	11/30	12/02	12/06	12/10	12/15	12/23
16	11/29	12/04	12/08	12/12	12/16	12/21	12/26	01/01	01/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	185	178	172	168	164	159	155	150	143
32	209	202	196	191	187	182	178	172	164
28	237	228	223	218	213	209	204	198	190
24	268	259	253	247	242	237	231	225	216
20	302	293	286	279	274	268	262	255	246
16	333	324	316	310	304	298	292	283	273

* 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

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	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/19	04/15	04/11	04/08	04/05	04/02	03/30	03/25	03/19
32	04/11	04/04	03/31	03/28	03/23	03/20	03/15	03/10	03/03
28	03/30	03/22	03/17	03/11	03/06	03/01	02/26	02/21	02/11
24	03/14	03/04	02/27	02/22	02/17	02/11	02/05	01/31	01/23
20	02/27	02/18	02/10	02/03	01/31	01/27	01/20	01/13	01/02
16	02/14	02/03	01/30	01/25	01/19	01/14	01/08	01/01	12/25
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	10/18	10/24	10/28	10/31	11/03	11/06	11/09	11/13	11/19
32	10/28	11/02	11/07	11/11	11/15	11/19	11/23	11/30	12/04
28	11/09	11/17	11/23	11/29	12/01	12/05	12/09	12/15	12/24
24	11/27	12/02	12/07	12/12	12/16	12/22	12/27	01/02	01/11
20	12/07	12/14	12/21	12/26	12/31	01/04	01/10	01/18	01/29
16	12/14	12/23	12/29	01/01	01/06	01/12	01/17	01/24	02/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	235	226	221	216	212	207	202	197	190
32	264	254	247	242	236	230	225	219	210
28	299	288	281	274	268	261	255	247	237
24	333	322	314	307	301	295	288	280	269
20	365	352	344	337	332	325	317	309	298
16	365	365	365	365	358	350	342	335	325

* 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

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blank: missing or insufficient data

Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/12	04/05	04/01	03/29	03/25	03/21	03/17	03/12	03/05
32	03/28	03/22	03/17	03/12	03/08	03/04	02/28	02/23	02/15
28	03/15	03/06	03/01	02/25	02/20	02/13	02/07	02/01	01/23
24	02/27	02/18	02/10	02/04	01/31	01/28	01/22	01/14	01/03
20	02/12	02/03	01/31	01/28	01/24	01/19	01/13	01/07	12/30
16	02/03	01/30	01/26	01/22	01/19	01/14	01/09	01/05	12/30
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	11/11	11/17	11/22	11/26	12/01	12/03	12/07	12/12	12/19
32	11/24	12/01	12/04	12/08	12/13	12/17	12/23	12/29	01/05
28	12/05	12/12	12/18	12/23	12/28	01/01	01/06	01/14	01/25
24	12/16	12/24	12/30	01/03	01/08	01/14	01/20	01/28	02/06
20	12/24	12/31	01/04	01/09	01/15	01/20	01/25	01/30	02/05
16	12/28	01/03	01/07	01/11	01/16	01/20	01/24	01/28	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	276	267	260	254	249	244	238	232	223
32	306	296	289	283	277	272	266	259	249
28	336	326	318	311	306	300	294	287	277
24	365	361	348	339	333	328	320	312	302
20	365	365	365	365	365	356	344	335	327
16	365	365	365	365	365	365	365	365	344

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/17	04/12	04/08	04/05	04/01	03/29	03/25	03/21	03/16
32	04/06	03/31	03/27	03/22	03/18	03/14	03/10	03/05	02/27
28	03/23	03/15	03/10	03/04	02/28	02/25	02/20	02/14	02/04
24	03/06	02/27	02/21	02/15	02/09	02/04	01/31	01/25	01/14
20	02/22	02/11	02/04	01/31	01/27	01/21	01/16	01/08	12/29
16	02/09	02/01	01/27	01/22	01/17	01/11	01/05	12/31	12/22
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	10/23	10/29	11/01	11/04	11/07	11/10	11/14	11/18	11/23
32	11/03	11/08	11/13	11/17	11/20	11/24	11/29	12/02	12/08
28	11/16	11/22	11/28	12/01	12/04	12/08	12/13	12/20	12/28
24	12/01	12/05	12/09	12/14	12/19	12/24	12/30	01/04	01/15
20	12/09	12/15	12/21	12/27	01/01	01/05	01/12	01/19	01/29
16	12/12	12/20	12/27	01/01	01/05	01/10	01/17	01/24	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	243	235	230	225	220	216	211	206	198
32	274	264	257	251	246	241	235	229	221
28	309	298	290	284	278	272	266	258	249
24	341	331	324	317	310	304	298	290	279
20	365	360	351	343	337	333	327	318	307
16	365	365	365	365	365	356	348	341	333

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/30	04/24	04/19	04/16	04/13	04/09	04/05	04/01	03/27
32	04/17	04/11	04/06	04/03	03/31	03/27	03/23	03/19	03/12
28	04/06	03/31	03/26	03/21	03/17	03/12	03/08	03/03	02/26
24	03/24	03/15	03/09	03/04	02/28	02/25	02/20	02/13	02/03
20	03/03	02/25	02/19	02/13	02/08	02/03	01/31	01/24	01/13
16	02/16	02/07	02/02	01/30	01/26	01/21	01/14	01/06	12/28
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	10/12	10/17	10/21	10/24	10/27	10/30	11/01	11/05	11/10
32	10/21	10/27	10/31	11/02	11/05	11/08	11/11	11/16	11/22
28	11/01	11/06	11/10	11/14	11/18	11/22	11/27	12/01	12/06
24	11/14	11/20	11/26	12/01	12/02	12/05	12/10	12/17	12/27
20	11/30	12/03	12/08	12/13	12/18	12/23	12/29	01/04	01/15
16	12/08	12/15	12/21	12/26	12/31	01/04	01/10	01/17	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	219	211	206	201	197	192	187	182	174
32	244	235	229	224	219	215	210	204	197
28	273	263	256	250	245	240	234	227	218
24	307	297	289	283	277	271	264	257	247
20	340	330	322	316	310	304	297	289	279
16	365	361	352	344	337	333	328	320	311

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/06	05/01	04/27	04/24	04/20	04/17	04/14	04/10	04/04
32	04/27	04/21	04/16	04/12	04/09	04/05	04/01	03/28	03/22
28	04/16	04/09	04/03	03/31	03/27	03/22	03/18	03/13	03/06
24	04/02	03/26	03/20	03/15	03/11	03/06	03/02	02/26	02/19
20	03/18	03/10	03/04	02/28	02/23	02/18	02/12	02/04	01/27
16	03/05	02/24	02/16	02/07	02/02	01/29	01/23	01/15	01/04
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	10/05	10/10	10/14	10/17	10/20	10/23	10/27	10/30	11/04
32	10/15	10/20	10/24	10/28	10/31	11/02	11/05	11/09	11/16
28	10/26	11/01	11/04	11/07	11/11	11/15	11/19	11/26	12/02
24	11/05	11/12	11/17	11/21	11/26	12/01	12/04	12/07	12/16
20	11/19	11/27	12/01	12/04	12/08	12/12	12/18	12/25	01/04
16	12/02	12/07	12/13	12/18	12/24	12/29	01/03	01/11	01/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	205	197	192	187	182	177	173	167	160
32	228	220	215	209	204	200	195	188	180
28	257	248	241	235	230	224	219	212	203
24	287	277	270	263	258	252	246	238	228
20	321	309	301	294	287	281	274	266	256
16	353	341	334	327	320	312	304	296	284

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/26	04/21	04/17	04/14	04/11	04/08	04/05	04/01	03/27
32	04/14	04/08	04/05	04/01	03/30	03/26	03/22	03/17	03/11
28	04/02	03/27	03/23	03/18	03/14	03/09	03/05	02/28	02/22
24	03/18	03/11	03/04	02/28	02/25	02/20	02/13	02/05	01/30
20	03/02	02/22	02/15	02/08	02/03	01/31	01/25	01/18	01/08
16	02/14	02/04	01/31	01/27	01/21	01/16	01/10	01/03	12/26
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	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/10
32	10/20	10/25	10/30	11/01	11/04	11/08	11/12	11/17	11/24
28	10/31	11/05	11/10	11/15	11/19	11/24	11/30	12/03	12/10
24	11/14	11/22	11/28	12/02	12/05	12/09	12/15	12/22	01/01
20	12/01	12/06	12/12	12/17	12/23	12/29	01/03	01/11	01/20
16	12/10	12/17	12/24	12/30	01/03	01/09	01/15	01/22	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	218	210	205	201	197	192	188	182	175
32	246	236	230	224	219	215	210	205	197
28	279	269	261	255	249	243	237	230	221
24	316	305	297	290	283	277	271	263	253
20	350	338	332	325	319	312	305	297	286
16	365	365	361	353	346	339	334	328	315

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Summary of Annual Normals 1981-2010

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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	05/10	05/05	05/02	04/29	04/25	04/22	04/19	04/16	04/11
32	04/30	04/23	04/19	04/16	04/13	04/10	04/07	04/03	03/28
28	04/16	04/10	04/06	04/02	03/31	03/27	03/23	03/19	03/12
24	04/03	03/28	03/24	03/20	03/17	03/13	03/09	03/04	02/25
20	03/21	03/15	03/11	03/06	03/02	02/26	02/20	02/13	02/03
16	03/10	03/01	02/23	02/17	02/10	02/05	01/31	01/26	01/15
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	10/03	10/07	10/10	10/13	10/16	10/19	10/22	10/26	10/31
32	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/08
28	10/21	10/26	10/30	11/02	11/05	11/08	11/12	11/16	11/22
24	11/01	11/07	11/12	11/15	11/19	11/23	11/28	12/02	12/07
20	11/17	11/23	11/28	12/01	12/04	12/07	12/12	12/19	12/28
16	11/30	12/04	12/09	12/13	12/18	12/24	12/30	01/04	01/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	187	182	177	173	169	165	160	153
32	217	209	204	200	195	191	186	181	173
28	244	236	230	225	220	216	211	205	197
24	275	266	259	253	248	243	237	231	222
20	309	299	291	284	278	273	266	260	251
16	338	328	320	313	307	300	294	286	276

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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	05/03	04/27	04/23	04/19	04/16	04/12	04/09	04/05	03/31
32	04/18	04/13	04/09	04/05	04/02	03/30	03/26	03/22	03/15
28	04/08	04/01	03/28	03/23	03/19	03/14	03/08	03/02	02/25
24	03/28	03/18	03/11	03/05	02/28	02/25	02/21	02/14	02/04
20	03/08	02/27	02/21	02/16	02/09	02/03	01/31	01/25	01/14
16	02/20	02/10	02/03	01/31	01/28	01/22	01/16	01/08	12/30
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	10/08	10/13	10/17	10/20	10/24	10/27	10/31	11/02	11/07
32	10/16	10/22	10/27	10/30	11/01	11/04	11/08	11/12	11/18
28	10/26	11/01	11/04	11/08	11/12	11/16	11/20	11/27	12/03
24	11/05	11/13	11/18	11/24	11/30	12/02	12/06	12/12	12/23
20	11/20	12/01	12/04	12/08	12/13	12/19	12/25	01/01	01/11
16	12/05	12/12	12/18	12/24	12/29	01/02	01/08	01/16	01/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	204	198	193	189	184	179	174	167
32	236	227	221	216	211	207	202	196	188
28	268	257	250	243	237	231	225	218	209
24	303	292	283	276	270	263	256	248	236
20	336	327	318	311	305	298	291	282	270
16	365	354	346	338	334	328	322	314	304

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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	04/30	04/22	04/17	04/14	04/10	04/07	04/03	03/31	03/25
32	04/16	04/09	04/05	04/01	03/29	03/24	03/20	03/16	03/08
28	04/02	03/27	03/21	03/17	03/12	03/07	03/02	02/26	02/18
24	03/18	03/09	03/02	02/26	02/21	02/15	02/08	02/02	01/25
20	02/26	02/17	02/09	02/03	01/31	01/27	01/21	01/14	01/02
16	02/11	02/03	01/30	01/25	01/20	01/14	01/08	12/31	12/25
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	10/11	10/16	10/21	10/25	10/28	11/01	11/03	11/06	11/12
32	10/20	10/27	11/01	11/03	11/06	11/10	11/14	11/19	11/28
28	11/01	11/07	11/12	11/17	11/21	11/26	12/01	12/05	12/12
24	11/15	11/23	11/30	12/02	12/05	12/10	12/16	12/23	01/02
20	12/01	12/05	12/11	12/16	12/23	12/28	01/02	01/10	01/21
16	12/09	12/16	12/23	12/29	01/01	01/07	01/14	01/21	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	222	214	208	203	198	193	188	182	174
32	249	240	233	228	222	217	212	206	196
28	283	272	264	258	251	246	239	232	222
24	323	310	302	294	288	280	273	265	254
20	356	343	335	330	324	317	309	301	290
16	365	365	365	356	348	342	336	331	321

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Summary of Annual Normals 1981-2010

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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	04/26	04/21	04/18	04/15	04/12	04/09	04/06	04/02	03/28
32	04/15	04/10	04/06	04/03	03/31	03/28	03/24	03/20	03/15
28	04/05	03/31	03/25	03/21	03/17	03/14	03/10	03/06	02/28
24	03/21	03/14	03/09	03/05	03/01	02/26	02/22	02/15	02/06
20	03/08	02/28	02/24	02/19	02/12	02/07	02/02	01/29	01/19
16	02/25	02/16	02/08	02/03	01/31	01/28	01/21	01/14	01/01
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	10/14	10/20	10/24	10/27	10/30	11/01	11/04	11/08	11/13
32	10/26	10/31	11/03	11/06	11/09	11/12	11/16	11/20	11/29
28	11/07	11/12	11/16	11/20	11/25	11/30	12/03	12/06	12/14
24	11/19	11/28	12/01	12/04	12/08	12/12	12/17	12/24	01/01
20	12/03	12/08	12/13	12/18	12/23	12/28	01/01	01/08	01/20
16	12/11	12/19	12/25	12/30	01/03	01/09	01/16	01/23	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	221	214	209	204	200	195	191	186	178
32	246	238	232	227	223	219	214	209	202
28	278	269	262	257	252	246	241	235	226
24	310	301	294	287	282	276	271	264	255
20	340	330	322	316	309	304	298	291	281
16	365	357	347	339	333	329	322	314	305

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/18	04/13	04/09	04/06	04/04	04/01	03/29	03/24	03/18
32	04/07	04/01	03/28	03/24	03/20	03/16	03/12	03/08	03/01
28	03/24	03/18	03/13	03/08	03/04	02/28	02/26	02/21	02/12
24	03/11	03/03	02/27	02/23	02/18	02/12	02/06	01/31	01/24
20	02/26	02/18	02/10	02/03	01/31	01/27	01/20	01/13	01/03
16	02/15	02/04	01/31	01/26	01/20	01/14	01/08	01/02	12/26
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	10/19	10/24	10/28	11/01	11/04	11/06	11/10	11/14	11/20
32	10/30	11/04	11/08	11/13	11/16	11/20	11/25	12/01	12/05
28	11/13	11/19	11/25	11/29	12/01	12/05	12/09	12/15	12/24
24	11/30	12/03	12/07	12/12	12/16	12/22	12/27	01/01	01/10
20	12/09	12/14	12/21	12/26	12/31	01/04	01/10	01/17	01/27
16	12/13	12/22	12/28	01/01	01/06	01/12	01/18	01/26	02/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	237	228	223	218	214	209	205	200	192
32	266	258	251	246	241	235	230	224	216
28	300	290	283	276	271	265	260	253	244
24	331	321	314	307	302	296	289	282	273
20	364	351	342	336	331	325	318	310	301
16	365	365	365	364	356	348	340	334	323

* 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

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Summary of Annual Normals 1981-2010

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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	05/01	04/24	04/21	04/17	04/15	04/11	04/08	04/03	03/30
32	04/18	04/13	04/08	04/05	04/01	03/29	03/25	03/21	03/15
28	04/08	04/02	03/28	03/24	03/20	03/15	03/11	03/06	02/28
24	03/27	03/19	03/13	03/08	03/03	02/28	02/24	02/19	02/08
20	03/11	03/02	02/26	02/22	02/16	02/08	02/02	01/28	01/17
16	02/27	02/19	02/10	02/03	01/31	01/26	01/19	01/11	12/31
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	10/09	10/15	10/19	10/22	10/25	10/28	11/01	11/04	11/09
32	10/19	10/25	10/29	11/01	11/04	11/07	11/11	11/15	11/22
28	10/30	11/05	11/09	11/13	11/17	11/22	11/27	12/01	12/07
24	11/13	11/20	11/27	12/01	12/03	12/07	12/12	12/19	12/29
20	12/01	12/05	12/09	12/14	12/19	12/25	12/31	01/05	01/16
16	12/09	12/15	12/21	12/27	01/01	01/05	01/13	01/20	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	214	206	201	196	192	188	183	178	170
32	239	231	225	220	215	211	206	200	192
28	270	260	253	247	242	236	230	223	215
24	306	294	287	280	274	268	261	253	243
20	336	327	318	311	305	299	292	285	275
16	365	354	345	338	333	327	319	310	300

* 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

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Summary of Annual Normals 1981-2010

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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	04/17	04/12	04/09	04/06	04/02	03/31	03/27	03/22	03/16
32	04/06	03/31	03/28	03/23	03/20	03/16	03/11	03/06	02/27
28	03/23	03/17	03/11	03/06	03/02	02/27	02/22	02/16	02/06
24	03/10	03/02	02/25	02/20	02/14	02/07	02/02	01/28	01/17
20	02/26	02/16	02/08	02/02	01/30	01/24	01/17	01/09	12/31
16	02/14	02/03	01/31	01/25	01/19	01/13	01/07	01/01	12/24
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	10/23	10/29	11/01	11/05	11/08	11/12	11/16	11/20	11/28
32	11/02	11/08	11/14	11/18	11/22	11/27	12/01	12/05	12/12
28	11/18	11/25	11/30	12/02	12/06	12/11	12/16	12/22	12/31
24	12/01	12/06	12/12	12/17	12/22	12/27	01/01	01/07	01/17
20	12/10	12/17	12/24	12/30	01/03	01/08	01/15	01/23	02/01
16	12/15	12/24	12/30	01/03	01/08	01/15	01/21	01/28	02/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	245	236	230	225	220	215	211	205	197
32	275	266	259	253	247	242	236	230	221
28	308	298	291	284	278	273	267	259	250
24	339	329	322	314	308	302	296	288	278
20	365	360	351	343	336	331	324	315	304
16	365	365	365	365	363	355	346	336	328

* 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

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Summary of Annual Normals 1981-2010

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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	05/09	05/03	04/30	04/26	04/22	04/19	04/16	04/12	04/07
32	04/27	04/20	04/16	04/13	04/10	04/07	04/03	03/31	03/24
28	04/14	04/09	04/05	04/01	03/29	03/25	03/20	03/15	03/08
24	04/03	03/28	03/23	03/18	03/14	03/09	03/05	02/28	02/21
20	03/23	03/15	03/09	03/03	02/27	02/22	02/17	02/11	02/04
16	03/11	03/01	02/23	02/18	02/12	02/06	02/02	01/29	01/18
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	10/04	10/08	10/11	10/14	10/17	10/20	10/23	10/26	11/01
32	10/12	10/18	10/22	10/25	10/28	11/01	11/03	11/07	11/12
28	10/25	10/31	11/03	11/06	11/09	11/13	11/16	11/21	11/29
24	11/07	11/13	11/17	11/21	11/26	11/30	12/03	12/07	12/15
20	11/21	11/28	12/01	12/05	12/09	12/13	12/18	12/24	01/01
16	12/02	12/08	12/12	12/16	12/21	12/25	12/30	01/06	01/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	198	191	185	181	177	173	168	162	155
32	223	215	209	204	200	196	191	185	177
28	252	243	237	231	226	221	216	210	202
24	284	275	268	261	256	250	244	238	229
20	314	304	297	290	285	279	272	265	255
16	337	328	321	314	308	302	296	289	278

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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	05/23	05/17	05/13	05/10	05/08	05/05	05/02	04/29	04/25
32	05/13	05/08	05/04	05/01	04/29	04/26	04/23	04/20	04/15
28	05/04	04/28	04/24	04/21	04/18	04/15	04/12	04/07	04/02
24	04/19	04/13	04/09	04/06	04/03	03/31	03/27	03/23	03/16
20	04/04	03/30	03/26	03/22	03/19	03/15	03/11	03/06	02/28
16	03/24	03/18	03/13	03/08	03/03	02/27	02/22	02/17	02/07
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	09/22	09/27	09/30	10/02	10/04	10/06	10/09	10/13	10/18
32	10/01	10/05	10/07	10/10	10/13	10/16	10/20	10/23	10/28
28	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/02	11/06
24	10/18	10/25	10/28	11/01	11/03	11/05	11/09	11/13	11/21
20	10/31	11/04	11/08	11/12	11/15	11/19	11/23	11/29	12/05
16	11/11	11/18	11/23	11/28	12/01	12/05	12/08	12/14	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	160	155	152	148	144	140	135	128
32	187	180	175	171	167	163	159	154	147
28	210	202	197	193	188	184	180	174	167
24	237	228	222	218	213	209	204	199	191
20	268	259	252	246	241	236	231	225	217
16	301	291	283	278	272	266	260	253	245

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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	04/30	04/24	04/21	04/18	04/14	04/11	04/07	04/03	03/30
32	04/16	04/11	04/07	04/03	03/31	03/28	03/24	03/20	03/14
28	04/04	03/30	03/25	03/21	03/17	03/13	03/09	03/04	02/26
24	03/21	03/15	03/10	03/05	03/01	02/26	02/21	02/15	02/05
20	03/08	02/28	02/21	02/15	02/08	02/03	01/31	01/24	01/13
16	02/20	02/09	02/03	01/31	01/27	01/21	01/15	01/07	12/29
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	10/10	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/08
32	10/20	10/26	10/30	11/01	11/04	11/06	11/10	11/14	11/21
28	11/01	11/04	11/08	11/11	11/15	11/19	11/25	12/01	12/05
24	11/11	11/17	11/23	11/28	12/01	12/05	12/09	12/17	12/28
20	11/26	12/02	12/06	12/11	12/16	12/22	12/29	01/04	01/15
16	12/08	12/14	12/21	12/27	01/01	01/05	01/11	01/18	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	215	208	202	198	193	189	185	180	172
32	239	231	225	221	216	212	207	202	194
28	270	260	253	247	242	237	231	225	216
24	303	292	284	278	272	266	260	253	243
20	337	327	318	311	305	298	291	282	271
16	365	357	347	339	333	328	321	313	301

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/15	05/09	05/05	05/02	04/30	04/27	04/24	04/20	04/16
32	05/02	04/28	04/24	04/21	04/18	04/16	04/13	04/08	04/01
28	04/21	04/16	04/13	04/10	04/06	04/02	03/30	03/25	03/19
24	04/12	04/05	04/01	03/28	03/24	03/20	03/16	03/11	03/04
20	03/29	03/22	03/18	03/13	03/09	03/04	02/28	02/25	02/17
16	03/15	03/07	03/02	02/27	02/22	02/16	02/11	02/04	01/30
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	09/30	10/03	10/05	10/08	10/11	10/15	10/18	10/23	10/29
32	10/07	10/12	10/15	10/19	10/22	10/26	10/30	11/02	11/07
28	10/17	10/22	10/26	10/30	11/01	11/04	11/08	11/12	11/19
24	10/28	11/02	11/06	11/10	11/14	11/18	11/23	11/30	12/05
20	11/10	11/17	11/23	11/27	12/01	12/04	12/08	12/13	12/22
16	11/26	12/01	12/05	12/10	12/14	12/19	12/25	01/01	01/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	185	178	173	168	164	160	156	150	143
32	210	202	196	191	187	183	178	173	166
28	235	226	220	215	210	206	201	195	188
24	264	254	247	241	236	230	225	218	210
20	293	284	277	272	266	261	255	248	239
16	325	315	307	302	296	290	284	277	268

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36	05/30	05/25	05/21	05/17	05/14	05/11	05/08	05/04	04/30
32	05/19	05/13	05/09	05/06	05/03	04/30	04/27	04/24	04/19
28	05/07	05/02	04/28	04/24	04/21	04/18	04/15	04/11	04/06
24	04/24	04/19	04/15	04/11	04/08	04/05	04/02	03/29	03/23
20	04/12	04/06	04/03	03/31	03/28	03/24	03/20	03/15	03/07
16	04/02	03/28	03/23	03/18	03/14	03/09	03/04	02/27	02/19
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	09/17	09/22	09/26	09/28	10/01	10/03	10/06	10/09	10/14
32	09/26	10/01	10/04	10/06	10/10	10/12	10/15	10/19	10/25
28	10/05	10/09	10/13	10/16	10/19	10/22	10/25	10/28	11/02
24	10/13	10/19	10/23	10/26	10/28	11/01	11/03	11/06	11/11
20	10/24	10/30	11/02	11/05	11/08	11/12	11/16	11/21	11/29
16	11/04	11/10	11/15	11/19	11/24	11/28	12/01	12/05	12/12
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	150	145	141	137	133	129	124	117
32	178	171	166	161	157	153	148	144	137
28	201	193	188	183	179	174	170	164	157
24	224	216	211	206	202	198	193	188	180
20	253	243	237	231	226	221	216	211	203
16	284	273	266	260	254	248	242	235	226

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/03	04/28	04/23	04/20	04/17	04/14	04/11	04/07	04/02
32	04/21	04/15	04/11	04/08	04/04	04/01	03/28	03/23	03/17
28	04/09	04/03	03/30	03/25	03/21	03/17	03/13	03/08	03/02
24	03/27	03/19	03/14	03/09	03/05	03/01	02/25	02/20	02/10
20	03/11	03/04	02/27	02/22	02/17	02/10	02/05	01/31	01/23
16	02/27	02/18	02/11	02/05	01/31	01/29	01/23	01/15	01/03
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	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
32	10/21	10/26	10/30	11/01	11/04	11/07	11/10	11/15	11/20
28	11/02	11/06	11/10	11/13	11/17	11/21	11/26	12/01	12/06
24	11/13	11/19	11/25	11/29	12/02	12/05	12/10	12/16	12/25
20	11/28	12/03	12/07	12/12	12/16	12/21	12/27	01/02	01/12
16	12/07	12/13	12/18	12/24	12/29	01/03	01/09	01/17	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	204	198	194	190	185	181	175	168
32	237	229	223	218	214	210	205	199	192
28	269	259	252	246	241	236	231	224	216
24	301	290	283	277	271	266	259	252	243
20	332	321	314	307	301	295	289	281	271
16	362	348	339	333	328	321	314	306	297

* 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 09/18/2019

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	04/24	04/19	04/16	04/13	04/10	04/07	04/04	04/01	03/26
32	04/14	04/09	04/05	04/02	03/30	03/26	03/22	03/18	03/11
28	04/03	03/29	03/23	03/18	03/14	03/09	03/04	02/27	02/20
24	03/18	03/10	03/03	02/28	02/23	02/18	02/11	02/04	01/29
20	03/01	02/22	02/15	02/07	02/02	01/30	01/24	01/16	01/04
16	02/17	02/05	01/31	01/27	01/21	01/15	01/09	01/01	12/24
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	10/14	10/19	10/22	10/26	10/29	11/01	11/03	11/06	11/12
32	10/23	10/29	11/01	11/04	11/07	11/11	11/14	11/19	11/27
28	11/02	11/08	11/13	11/17	11/21	11/26	12/01	12/04	12/12
24	11/17	11/24	11/29	12/02	12/06	12/10	12/16	12/23	01/02
20	12/01	12/06	12/11	12/17	12/22	12/29	01/03	01/10	01/21
16	12/09	12/15	12/22	12/28	01/02	01/07	01/14	01/22	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	221	214	209	205	201	197	192	187	180
32	248	239	233	228	223	219	214	209	201
28	281	271	264	258	252	246	241	233	224
24	320	308	301	293	287	280	273	265	255
20	353	341	334	328	321	314	307	299	287
16	365	365	362	354	347	340	334	328	315

* 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 09/18/2019

Current Location: Elev: 2247 ft. Lat: 35.0604° N Lon: -83.4301° W
 Station: **COWEETA EXPERIMENT STATION, NC US USC00312102**

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	05/26	05/19	05/14	05/11	05/08	05/04	05/01	04/27	04/22
32	05/12	05/06	05/02	04/29	04/25	04/22	04/19	04/15	04/09
28	04/28	04/22	04/18	04/15	04/11	04/08	04/04	03/31	03/25
24	04/15	04/09	04/05	04/02	03/29	03/25	03/21	03/16	03/08
20	04/03	03/28	03/24	03/19	03/15	03/10	03/04	02/27	02/19
16	03/23	03/15	03/09	03/03	02/26	02/20	02/15	02/08	02/01
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	09/21	09/25	09/28	10/01	10/04	10/06	10/09	10/13	10/17
32	09/30	10/04	10/07	10/10	10/13	10/16	10/19	10/24	10/30
28	10/08	10/14	10/19	10/22	10/26	10/29	11/01	11/04	11/10
24	10/20	10/26	10/31	11/03	11/06	11/09	11/13	11/18	11/27
20	11/01	11/08	11/13	11/18	11/22	11/27	12/01	12/05	12/12
16	11/17	11/26	12/01	12/04	12/07	12/12	12/17	12/24	01/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	161	156	151	147	143	138	133	126
32	192	185	179	174	170	166	161	155	146
28	219	211	206	200	196	191	186	180	172
24	248	239	232	227	222	216	211	205	196
20	283	272	264	257	251	245	239	232	222
16	315	305	297	290	284	277	270	262	252

* 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 09/18/2019

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	04/30	04/24	04/21	04/18	04/15	04/12	04/09	04/05	03/31
32	04/19	04/13	04/09	04/06	04/02	03/31	03/26	03/22	03/16
28	04/07	04/01	03/28	03/23	03/19	03/16	03/12	03/07	02/28
24	03/24	03/17	03/12	03/07	03/03	02/28	02/23	02/17	02/07
20	03/09	03/01	02/24	02/18	02/11	02/06	02/01	01/28	01/18
16	02/26	02/16	02/07	02/02	01/31	01/26	01/19	01/11	12/31
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	10/11	10/16	10/20	10/23	10/26	10/29	11/01	11/04	11/09
32	10/21	10/26	10/30	11/01	11/04	11/07	11/11	11/16	11/23
28	11/01	11/06	11/10	11/14	11/18	11/23	11/29	12/02	12/08
24	11/13	11/20	11/27	12/01	12/04	12/07	12/11	12/18	12/28
20	12/01	12/05	12/10	12/14	12/19	12/24	12/30	01/04	01/15
16	12/10	12/16	12/22	12/27	01/01	01/05	01/12	01/20	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	215	208	202	198	193	189	184	179	171
32	241	232	226	222	217	213	208	202	194
28	271	262	255	249	244	238	233	226	218
24	305	295	287	281	275	269	263	256	246
20	337	327	319	312	306	300	294	286	275
16	365	356	346	338	333	327	320	312	303

* 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 09/18/2019

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	06/09	06/03	05/30	05/26	05/22	05/18	05/14	05/11	05/06
32	05/29	05/22	05/18	05/14	05/11	05/07	05/04	05/01	04/26
28	05/17	05/11	05/07	05/03	05/01	04/28	04/24	04/20	04/15
24	05/06	04/30	04/25	04/21	04/17	04/14	04/10	04/06	04/01
20	04/20	04/14	04/10	04/06	04/03	03/31	03/28	03/23	03/16
16	04/10	04/04	03/31	03/27	03/22	03/18	03/12	03/06	02/27
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	09/06	09/12	09/16	09/19	09/23	09/26	09/29	10/01	10/06
32	09/16	09/22	09/26	09/29	10/01	10/04	10/07	10/10	10/16
28	09/27	10/01	10/05	10/08	10/11	10/14	10/17	10/21	10/27
24	10/06	10/11	10/15	10/18	10/22	10/25	10/28	11/01	11/05
20	10/16	10/22	10/27	10/30	11/02	11/05	11/08	11/13	11/22
16	10/30	11/03	11/08	11/12	11/17	11/21	11/28	12/02	12/08
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	135	130	125	121	116	111	105	96
32	162	155	150	145	141	137	132	126	119
28	184	176	170	166	161	157	152	147	139
24	210	202	196	191	186	181	175	169	161
20	239	229	222	217	212	207	202	196	188
16	270	260	252	246	240	234	228	221	212

* 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 09/18/2019

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	06/08	06/02	05/30	05/26	05/22	05/18	05/14	05/10	05/05
32	05/28	05/22	05/17	05/13	05/10	05/06	05/03	04/30	04/25
28	05/17	05/10	05/05	05/02	04/29	04/25	04/22	04/18	04/12
24	05/04	04/26	04/21	04/18	04/14	04/11	04/08	04/04	03/31
20	04/18	04/13	04/09	04/05	04/02	03/30	03/26	03/22	03/16
16	04/08	04/02	03/29	03/24	03/20	03/16	03/11	03/06	02/28
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	09/03	09/10	09/14	09/18	09/21	09/24	09/27	09/30	10/05
32	09/14	09/20	09/24	09/27	09/30	10/03	10/05	10/09	10/15
28	09/25	09/30	10/03	10/06	10/09	10/12	10/16	10/20	10/27
24	10/04	10/09	10/13	10/17	10/21	10/25	10/29	11/01	11/06
20	10/14	10/22	10/26	10/31	11/03	11/06	11/09	11/14	11/22
16	10/31	11/04	11/09	11/13	11/17	11/21	11/26	12/01	12/06
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	140	133	127	123	118	114	109	103	95
32	161	154	148	144	139	135	130	124	117
28	185	176	170	165	160	156	151	145	137
24	210	202	196	190	185	180	175	168	159
20	237	228	222	217	212	207	202	195	186
16	268	258	251	245	240	234	228	222	213

* 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 09/18/2019

Current Location: Elev: 186 ft. Lat: 34.9914° N Lon: -78.8803° W

Station: **FAYETTEVILLE REGIONAL AIRPORT GRANNIS FIELD, NC US
 USW00093740**

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	04/18	04/13	04/10	04/06	04/03	04/01	03/29	03/24	03/18
32	04/09	04/03	03/30	03/26	03/22	03/18	03/14	03/10	03/04
28	03/28	03/20	03/15	03/11	03/06	03/02	02/27	02/22	02/15
24	03/11	03/03	02/27	02/22	02/17	02/11	02/06	02/01	01/24
20	02/25	02/16	02/08	02/03	01/31	01/26	01/20	01/12	12/31
16	02/10	02/01	01/29	01/25	01/20	01/15	01/08	01/01	12/24
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	10/19	10/24	10/27	10/30	11/02	11/04	11/08	11/11	11/17
32	10/30	11/03	11/06	11/10	11/13	11/17	11/21	11/26	12/01
28	11/08	11/15	11/20	11/24	11/29	12/01	12/05	12/09	12/18
24	11/23	12/01	12/03	12/07	12/11	12/16	12/22	12/28	01/05
20	12/05	12/11	12/17	12/22	12/27	12/31	01/05	01/13	01/23
16	12/12	12/20	12/27	12/31	01/04	01/10	01/16	01/22	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	234	226	221	217	212	208	204	199	191
32	260	252	245	240	235	231	226	220	212
28	292	282	275	269	263	258	252	245	236
24	327	315	308	302	296	290	283	276	266
20	361	348	339	333	328	322	314	307	297
16	365	365	365	361	353	346	339	333	324

* 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 09/18/2019

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	05/02	04/25	04/21	04/18	04/16	04/12	04/09	04/05	03/31
32	04/19	04/14	04/10	04/06	04/02	03/30	03/26	03/22	03/16
28	04/07	04/02	03/28	03/24	03/20	03/16	03/12	03/07	03/01
24	03/25	03/18	03/13	03/09	03/05	03/01	02/25	02/20	02/12
20	03/13	03/05	02/28	02/23	02/18	02/12	02/07	02/02	01/26
16	03/01	02/19	02/11	02/05	02/01	01/29	01/24	01/16	01/06
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	10/10	10/15	10/19	10/22	10/25	10/27	10/30	11/02	11/06
32	10/22	10/27	10/31	11/02	11/04	11/07	11/10	11/15	11/20
28	11/02	11/07	11/11	11/15	11/18	11/21	11/26	12/01	12/06
24	11/14	11/20	11/25	11/30	12/03	12/06	12/10	12/15	12/24
20	11/30	12/04	12/08	12/12	12/16	12/21	12/27	01/02	01/11
16	12/09	12/14	12/20	12/26	12/30	01/03	01/10	01/18	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	212	205	200	196	191	187	182	177	169
32	239	231	226	221	217	212	208	202	194
28	268	259	253	247	242	238	233	227	219
24	299	290	283	277	271	266	261	254	246
20	330	320	312	306	300	294	287	280	270
16	358	346	337	332	327	321	314	306	295

* 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 09/18/2019

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	05/18	05/13	05/10	05/07	05/04	05/01	04/29	04/26	04/21
32	05/08	05/04	05/01	04/28	04/26	04/23	04/20	04/16	04/11
28	04/30	04/25	04/21	04/18	04/15	04/11	04/07	04/03	03/29
24	04/20	04/15	04/10	04/06	04/02	03/30	03/26	03/22	03/17
20	04/11	04/03	03/29	03/25	03/21	03/17	03/12	03/07	02/28
16	03/29	03/20	03/14	03/09	03/04	03/01	02/24	02/18	02/09
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	09/25	09/29	10/02	10/04	10/07	10/10	10/13	10/17	10/23
32	10/01	10/06	10/10	10/13	10/17	10/20	10/24	10/28	11/02
28	10/10	10/17	10/21	10/25	10/28	10/31	11/02	11/05	11/10
24	10/23	10/28	11/01	11/03	11/06	11/09	11/12	11/16	11/24
20	11/02	11/07	11/11	11/14	11/18	11/22	11/27	12/01	12/06
16	11/15	11/21	11/27	12/01	12/03	12/06	12/10	12/17	12/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	174	168	163	158	155	151	146	142	135
32	194	187	182	177	173	169	165	159	152
28	216	209	204	199	195	190	186	180	173
24	242	233	227	222	217	213	208	202	195
20	270	260	254	248	243	237	232	225	216
16	303	293	285	279	273	267	261	253	244

* 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 09/18/2019

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	04/29	04/24	04/21	04/18	04/15	04/13	04/10	04/06	04/01
32	04/18	04/13	04/10	04/06	04/03	03/31	03/27	03/23	03/18
28	04/07	04/01	03/28	03/24	03/20	03/16	03/12	03/07	02/28
24	03/25	03/18	03/13	03/08	03/02	02/27	02/23	02/17	02/06
20	03/09	03/01	02/24	02/18	02/11	02/04	01/31	01/26	01/16
16	02/23	02/13	02/05	02/01	01/29	01/24	01/17	01/11	01/01
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	10/11	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/07
32	10/20	10/25	10/29	11/01	11/04	11/07	11/10	11/14	11/20
28	11/01	11/06	11/10	11/14	11/18	11/22	11/28	12/02	12/07
24	11/16	11/23	11/29	12/02	12/05	12/08	12/13	12/19	12/28
20	12/01	12/06	12/10	12/15	12/19	12/24	12/30	01/04	01/14
16	12/10	12/16	12/22	12/28	01/01	01/05	01/12	01/19	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	205	200	196	192	188	184	179	172
32	237	229	223	219	214	210	206	200	193
28	269	260	253	248	242	237	231	225	217
24	305	294	287	280	274	269	262	256	246
20	337	328	320	313	306	300	293	285	275
16	365	353	345	338	333	328	321	313	303

* 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 09/18/2019

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	05/11	05/06	05/02	04/29	04/25	04/22	04/19	04/15	04/10
32	05/01	04/24	04/20	04/16	04/13	04/09	04/05	04/01	03/27
28	04/17	04/11	04/06	04/02	03/31	03/27	03/23	03/19	03/13
24	04/03	03/30	03/25	03/21	03/17	03/13	03/09	03/04	02/26
20	03/23	03/17	03/12	03/07	03/02	02/26	02/21	02/14	02/05
16	03/14	03/05	02/27	02/20	02/14	02/08	02/02	01/29	01/18
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	10/03	10/07	10/11	10/14	10/17	10/20	10/24	10/28	11/01
32	10/11	10/17	10/21	10/25	10/27	10/31	11/02	11/05	11/10
28	10/23	10/28	11/01	11/04	11/07	11/10	11/14	11/18	11/27
24	11/04	11/10	11/14	11/18	11/22	11/26	12/01	12/04	12/09
20	11/18	11/25	12/01	12/02	12/05	12/09	12/13	12/19	12/27
16	12/02	12/07	12/11	12/15	12/19	12/25	12/30	01/05	01/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	195	188	183	178	174	169	165	159	153
32	218	211	206	201	196	192	187	181	173
28	246	237	231	225	221	216	211	206	197
24	276	266	260	254	249	244	239	232	224
20	307	297	289	283	278	272	266	259	250
16	337	327	319	312	305	299	293	285	274

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/17	05/11	05/08	05/05	05/03	05/01	04/28	04/25	04/21
32	05/07	05/03	04/30	04/26	04/23	04/20	04/17	04/13	04/07
28	04/24	04/19	04/16	04/12	04/09	04/05	04/01	03/29	03/23
24	04/15	04/08	04/03	03/31	03/27	03/23	03/19	03/14	03/07
20	04/04	03/28	03/22	03/17	03/12	03/07	03/03	02/28	02/20
16	03/22	03/14	03/08	03/02	02/26	02/20	02/14	02/05	01/30
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	09/28	10/02	10/05	10/07	10/10	10/13	10/16	10/21	10/26
32	10/04	10/09	10/13	10/16	10/19	10/23	10/26	10/31	11/04
28	10/11	10/18	10/22	10/26	10/30	11/02	11/06	11/10	11/16
24	10/22	10/29	11/03	11/07	11/12	11/16	11/21	11/28	12/04
20	11/04	11/14	11/20	11/27	12/01	12/04	12/07	12/13	12/22
16	11/29	12/03	12/08	12/11	12/16	12/21	12/27	01/01	01/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	172	167	163	159	155	151	147	140
32	201	193	188	183	179	174	170	164	157
28	227	219	213	208	203	199	194	188	179
24	259	249	242	235	230	224	218	211	201
20	290	280	273	266	260	254	247	239	227
16	324	312	305	298	292	285	278	271	260

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/29	04/22	04/18	04/16	04/13	04/09	04/06	04/02	03/29
32	04/15	04/10	04/06	04/03	03/31	03/28	03/24	03/20	03/15
28	04/05	03/31	03/26	03/22	03/18	03/15	03/10	03/06	03/01
24	03/25	03/18	03/12	03/07	03/03	02/28	02/24	02/18	02/07
20	03/10	03/02	02/26	02/20	02/14	02/08	02/03	01/29	01/19
16	02/26	02/17	02/09	02/04	01/31	01/28	01/21	01/14	01/02
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	10/13	10/18	10/22	10/25	10/28	10/30	11/01	11/05	11/10
32	10/24	10/30	11/01	11/05	11/08	11/11	11/15	11/19	11/26
28	11/05	11/11	11/15	11/19	11/23	11/28	12/01	12/05	12/11
24	11/19	11/27	12/01	12/03	12/06	12/10	12/16	12/23	01/01
20	12/02	12/08	12/12	12/17	12/23	12/28	01/02	01/09	01/19
16	12/11	12/18	12/25	12/30	01/03	01/08	01/15	01/22	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	217	210	205	201	197	192	188	182	175
32	244	236	231	226	222	218	213	207	200
28	275	266	260	254	249	244	239	233	225
24	307	297	290	284	278	272	267	260	250
20	337	328	319	313	307	301	295	288	278
16	365	355	345	337	332	327	320	312	304

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/27	04/23	04/20	04/17	04/14	04/11	04/08	04/03	03/29
32	04/17	04/12	04/08	04/05	04/01	03/29	03/25	03/21	03/14
28	04/06	03/31	03/27	03/23	03/19	03/13	03/08	03/03	02/26
24	03/24	03/17	03/12	03/06	03/02	02/27	02/23	02/17	02/07
20	03/11	03/03	02/25	02/20	02/15	02/08	02/02	01/29	01/16
16	02/25	02/17	02/08	02/01	01/29	01/24	01/16	01/07	12/28
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	10/14	10/19	10/22	10/25	10/28	10/31	11/02	11/05	11/10
32	10/22	10/27	11/01	11/03	11/05	11/08	11/12	11/17	11/22
28	11/01	11/05	11/10	11/15	11/18	11/22	11/26	12/01	12/06
24	11/13	11/20	11/25	11/30	12/02	12/06	12/12	12/19	01/01
20	11/27	12/03	12/07	12/12	12/18	12/25	01/01	01/06	01/18
16	12/06	12/13	12/20	12/27	01/01	01/06	01/13	01/21	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	209	204	200	196	192	188	183	176
32	241	232	227	222	217	213	208	203	196
28	272	262	255	249	244	239	233	226	218
24	305	294	286	280	274	268	262	255	246
20	335	326	317	310	304	298	290	282	273
16	365	357	347	339	334	328	320	311	301

* 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

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Summary of Annual Normals 1981-2010

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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	04/30	04/26	04/23	04/20	04/17	04/15	04/11	04/07	04/03
32	04/19	04/15	04/11	04/08	04/05	04/02	03/31	03/26	03/20
28	04/10	04/04	03/31	03/28	03/24	03/20	03/16	03/12	03/06
24	03/30	03/24	03/19	03/14	03/10	03/06	03/02	02/26	02/20
20	03/17	03/09	03/03	02/27	02/23	02/19	02/12	02/05	01/30
16	02/28	02/21	02/14	02/07	02/03	01/31	01/26	01/18	01/06
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	10/10	10/15	10/18	10/21	10/24	10/27	10/30	11/02	11/07
32	10/18	10/24	10/28	10/31	11/02	11/05	11/08	11/12	11/18
28	10/31	11/04	11/08	11/11	11/15	11/18	11/22	11/27	12/03
24	11/09	11/16	11/21	11/27	12/01	12/03	12/06	12/12	12/21
20	11/24	12/01	12/05	12/09	12/13	12/18	12/23	12/29	01/06
16	12/06	12/11	12/17	12/22	12/27	12/31	01/05	01/13	01/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	203	198	194	190	186	182	177	170
32	233	225	220	215	211	207	202	197	191
28	260	251	245	240	235	230	225	220	212
24	291	282	275	269	263	258	252	245	237
20	324	313	306	299	292	287	280	273	263
16	354	343	334	329	323	316	310	303	292

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Summary of Annual Normals 1981-2010

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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	04/21	04/17	04/14	04/10	04/07	04/04	04/01	03/29	03/23
32	04/11	04/05	04/01	03/29	03/26	03/22	03/18	03/13	03/07
28	03/28	03/22	03/17	03/13	03/09	03/05	02/28	02/25	02/18
24	03/12	03/05	02/28	02/25	02/20	02/16	02/09	02/03	01/26
20	02/27	02/20	02/13	02/06	02/01	01/29	01/23	01/16	01/06
16	02/15	02/04	01/31	01/28	01/24	01/19	01/14	01/08	12/30
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	10/21	10/26	10/30	11/01	11/04	11/07	11/11	11/15	11/21
32	11/01	11/06	11/11	11/14	11/18	11/22	11/27	12/01	12/05
28	11/16	11/24	11/29	12/01	12/04	12/06	12/11	12/17	12/26
24	12/01	12/05	12/09	12/14	12/19	12/24	12/30	01/04	01/13
20	12/10	12/17	12/23	12/28	01/01	01/06	01/12	01/19	01/29
16	12/18	12/27	01/01	01/06	01/11	01/16	01/21	01/27	02/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	232	225	220	215	211	207	203	198	191
32	263	254	248	242	238	233	228	222	214
28	298	287	280	275	270	264	259	252	243
24	330	319	312	306	300	294	288	281	272
20	363	350	341	334	330	324	316	309	300
16	365	365	365	363	354	346	339	334	324

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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	05/03	04/28	04/23	04/20	04/17	04/14	04/10	04/05	03/31
32	04/18	04/13	04/09	04/05	04/02	03/31	03/26	03/22	03/17
28	04/06	03/31	03/27	03/23	03/19	03/16	03/12	03/07	03/01
24	03/24	03/18	03/12	03/08	03/03	02/28	02/24	02/19	02/10
20	03/10	03/03	02/26	02/21	02/16	02/11	02/06	02/01	01/24
16	02/28	02/19	02/11	02/05	02/02	01/30	01/25	01/18	01/06
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	10/07	10/13	10/17	10/20	10/23	10/26	10/29	11/01	11/06
32	10/18	10/24	10/28	10/31	11/02	11/05	11/09	11/13	11/20
28	10/30	11/03	11/07	11/12	11/16	11/19	11/25	12/01	12/05
24	11/11	11/18	11/25	11/30	12/02	12/05	12/10	12/16	12/24
20	11/29	12/03	12/08	12/12	12/16	12/21	12/27	01/01	01/11
16	12/08	12/14	12/20	12/25	12/30	01/03	01/10	01/18	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	204	198	193	189	185	180	174	166
32	238	229	223	218	214	209	204	199	191
28	269	260	253	247	242	236	231	224	216
24	301	291	284	278	272	266	260	253	243
20	330	320	313	307	301	295	289	282	272
16	359	345	336	332	326	320	313	306	297

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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	05/19	05/13	05/09	05/06	05/03	04/30	04/28	04/25	04/21
32	05/09	05/04	04/30	04/27	04/24	04/21	04/18	04/14	04/09
28	04/29	04/22	04/18	04/14	04/11	04/08	04/05	04/01	03/27
24	04/13	04/08	04/04	04/01	03/28	03/25	03/21	03/17	03/10
20	04/02	03/27	03/22	03/18	03/14	03/10	03/05	02/28	02/21
16	03/20	03/13	03/06	03/01	02/25	02/19	02/12	02/05	01/30
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	09/26	09/30	10/02	10/05	10/08	10/11	10/14	10/18	10/24
32	10/04	10/08	10/12	10/15	10/18	10/21	10/25	10/28	11/02
28	10/13	10/18	10/22	10/25	10/29	11/01	11/04	11/07	11/12
24	10/25	10/31	11/03	11/07	11/10	11/13	11/17	11/22	12/01
20	11/07	11/13	11/17	11/22	11/26	12/01	12/03	12/08	12/16
16	11/21	11/29	12/02	12/06	12/10	12/14	12/20	12/26	01/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	176	169	164	160	156	152	148	143	137
32	197	189	184	180	175	171	167	161	154
28	221	214	208	203	199	194	189	183	176
24	253	244	237	232	227	222	217	211	202
20	285	275	267	262	256	251	245	239	230
16	320	308	301	294	288	282	275	268	258

* 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

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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	05/15	05/10	05/06	05/03	05/01	04/29	04/26	04/23	04/19
32	05/05	05/01	04/27	04/24	04/21	04/19	04/16	04/13	04/08
28	04/24	04/19	04/16	04/13	04/10	04/07	04/04	04/01	03/27
24	04/14	04/09	04/05	04/02	03/31	03/27	03/23	03/19	03/14
20	04/04	03/30	03/25	03/21	03/17	03/13	03/09	03/04	02/26
16	03/23	03/16	03/11	03/05	03/01	02/25	02/20	02/13	02/04
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	09/29	10/02	10/05	10/07	10/10	10/13	10/16	10/20	10/25
32	10/06	10/10	10/14	10/17	10/20	10/23	10/26	10/30	11/03
28	10/15	10/20	10/24	10/27	10/30	11/01	11/04	11/08	11/14
24	10/26	10/31	11/03	11/06	11/10	11/13	11/17	11/22	11/30
20	11/06	11/12	11/17	11/21	11/26	11/30	12/02	12/06	12/13
16	11/19	11/27	12/01	12/04	12/07	12/12	12/17	12/24	01/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	172	168	164	160	156	152	148	141
32	199	192	187	183	180	175	171	166	159
28	221	214	209	205	201	197	193	187	180
24	249	240	234	229	224	220	215	210	203
20	279	270	263	257	252	246	241	234	226
16	310	300	293	286	281	275	269	261	252

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/14	05/08	05/05	05/02	04/30	04/27	04/25	04/21	04/17
32	05/04	04/30	04/25	04/22	04/19	04/17	04/14	04/10	04/05
28	04/23	04/18	04/14	04/11	04/08	04/05	04/01	03/28	03/22
24	04/12	04/06	04/02	03/30	03/26	03/22	03/19	03/14	03/07
20	03/31	03/24	03/19	03/15	03/10	03/07	03/02	02/27	02/19
16	03/19	03/11	03/05	03/01	02/24	02/19	02/12	02/05	01/30
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	09/30	10/04	10/07	10/10	10/13	10/16	10/19	10/23	10/27
32	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/05
28	10/16	10/22	10/26	10/30	11/01	11/04	11/07	11/11	11/17
24	10/28	11/02	11/06	11/10	11/14	11/17	11/21	11/27	12/02
20	11/09	11/15	11/20	11/24	11/29	12/01	12/04	12/09	12/17
16	11/22	11/30	12/03	12/06	12/10	12/15	12/21	12/28	01/05
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	184	177	173	169	165	161	157	152	146
32	205	198	193	188	184	180	176	171	164
28	229	221	216	211	207	203	198	193	186
24	257	248	242	237	232	227	222	216	209
20	288	278	271	266	260	254	249	243	234
16	321	309	302	296	289	283	277	269	259

* 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

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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	05/13	05/07	05/03	04/30	04/27	04/24	04/21	04/17	04/12
32	05/01	04/24	04/21	04/17	04/14	04/10	04/07	04/03	03/30
28	04/16	04/11	04/06	04/03	03/31	03/29	03/24	03/20	03/14
24	04/05	03/31	03/26	03/22	03/18	03/14	03/09	03/04	02/26
20	03/24	03/16	03/11	03/06	03/01	02/25	02/20	02/13	02/06
16	03/13	03/03	02/23	02/16	02/10	02/05	02/01	01/27	01/17
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	10/03	10/07	10/11	10/14	10/17	10/21	10/24	10/29	11/02
32	10/12	10/17	10/21	10/25	10/28	11/01	11/03	11/06	11/11
28	10/23	10/29	11/02	11/05	11/08	11/11	11/15	11/20	11/28
24	11/05	11/11	11/15	11/19	11/23	11/27	12/01	12/04	12/10
20	11/19	11/27	12/01	12/03	12/06	12/10	12/15	12/21	12/29
16	12/02	12/07	12/11	12/15	12/20	12/25	12/31	01/05	01/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	186	181	176	172	167	163	157	150
32	217	210	205	200	196	191	186	181	172
28	246	238	231	226	221	217	212	206	198
24	277	268	262	256	251	245	239	233	224
20	309	300	292	286	280	274	269	261	252
16	338	329	322	315	309	303	296	288	277

* 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

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Summary of Annual Normals 1981-2010

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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	05/30	05/25	05/20	05/16	05/13	05/10	05/07	05/03	04/30
32	05/19	05/13	05/09	05/06	05/03	05/01	04/28	04/24	04/19
28	05/09	05/04	05/01	04/28	04/24	04/21	04/18	04/15	04/10
24	04/30	04/25	04/21	04/18	04/15	04/12	04/09	04/05	03/31
20	04/21	04/16	04/12	04/09	04/06	04/03	03/31	03/26	03/19
16	04/14	04/09	04/04	03/31	03/28	03/24	03/19	03/14	03/07
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	09/18	09/22	09/26	09/28	10/01	10/04	10/06	10/10	10/15
32	09/25	10/01	10/04	10/07	10/10	10/13	10/16	10/20	10/25
28	10/04	10/09	10/13	10/16	10/19	10/23	10/26	10/29	11/03
24	10/12	10/18	10/23	10/26	10/29	11/01	11/04	11/08	11/15
20	10/23	10/29	11/01	11/05	11/07	11/11	11/16	11/20	11/27
16	11/03	11/07	11/12	11/16	11/20	11/24	11/28	12/02	12/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	159	152	147	143	139	135	131	125	118
32	178	171	166	162	158	154	150	145	137
28	198	191	185	181	177	173	168	163	155
24	218	211	205	201	196	192	187	182	175
20	241	233	227	221	217	212	207	201	193
16	264	255	249	243	238	233	228	221	213

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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	04/27	04/22	04/19	04/16	04/13	04/11	04/07	04/04	03/31
32	04/14	04/10	04/07	04/04	04/01	03/29	03/25	03/21	03/15
28	04/03	03/30	03/26	03/22	03/18	03/14	03/10	03/05	02/28
24	03/23	03/17	03/11	03/06	03/03	02/28	02/25	02/20	02/10
20	03/11	03/02	02/26	02/21	02/16	02/10	02/03	01/31	01/20
16	02/23	02/16	02/07	02/03	01/31	01/27	01/21	01/14	01/04
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	10/12	10/17	10/21	10/24	10/28	10/31	11/02	11/05	11/09
32	10/21	10/27	10/31	11/02	11/05	11/08	11/11	11/16	11/22
28	11/01	11/05	11/09	11/13	11/17	11/21	11/27	12/01	12/06
24	11/13	11/19	11/25	11/30	12/02	12/05	12/09	12/16	12/26
20	11/28	12/02	12/07	12/11	12/17	12/22	12/29	01/03	01/13
16	12/08	12/15	12/22	12/27	01/01	01/05	01/12	01/18	01/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	209	204	199	195	191	187	182	175
32	240	232	226	222	217	213	208	203	196
28	270	260	254	248	243	238	232	226	218
24	301	291	284	278	272	267	260	254	245
20	333	322	314	307	302	295	289	281	271
16	364	351	342	335	331	325	318	311	301

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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	04/28	04/24	04/21	04/18	04/15	04/12	04/08	04/04	03/31
32	04/18	04/13	04/09	04/05	04/02	03/31	03/26	03/22	03/17
28	04/07	04/02	03/28	03/24	03/20	03/17	03/13	03/08	03/03
24	03/27	03/19	03/15	03/09	03/05	03/02	02/27	02/22	02/15
20	03/13	03/04	02/28	02/23	02/18	02/13	02/08	02/03	01/29
16	02/28	02/19	02/11	02/06	02/02	01/31	01/25	01/18	01/07
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	10/10	10/15	10/18	10/22	10/24	10/27	10/30	11/03	11/07
32	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/15	11/21
28	11/01	11/07	11/11	11/15	11/19	11/22	11/26	12/01	12/05
24	11/15	11/21	11/26	11/30	12/02	12/05	12/09	12/14	12/21
20	11/29	12/02	12/06	12/10	12/14	12/19	12/24	12/29	01/07
16	12/07	12/13	12/18	12/24	12/28	01/01	01/08	01/16	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	213	206	201	197	193	188	184	179	173
32	239	231	226	221	216	212	207	202	195
28	268	259	253	247	243	238	232	226	218
24	297	288	281	276	271	265	259	253	244
20	327	317	310	305	299	293	287	280	271
16	356	344	335	330	325	319	312	305	295

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/13	05/07	05/03	04/30	04/27	04/24	04/21	04/17	04/12
32	05/01	04/25	04/22	04/18	04/15	04/12	04/09	04/05	03/31
28	04/18	04/13	04/09	04/06	04/02	03/31	03/25	03/20	03/13
24	04/06	04/01	03/27	03/22	03/18	03/13	03/07	03/01	02/23
20	03/25	03/17	03/10	03/03	02/28	02/22	02/17	02/10	02/03
16	03/11	03/01	02/22	02/16	02/10	02/06	02/02	01/28	01/15
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	10/05	10/09	10/12	10/15	10/18	10/21	10/24	10/27	11/01
32	10/13	10/18	10/22	10/24	10/27	10/31	11/02	11/06	11/11
28	10/23	10/28	11/01	11/03	11/06	11/10	11/14	11/18	11/28
24	11/03	11/08	11/13	11/17	11/21	11/26	12/01	12/05	12/12
20	11/16	11/23	11/29	12/02	12/06	12/11	12/17	12/24	01/01
16	12/01	12/06	12/12	12/17	12/22	12/27	01/01	01/07	01/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	186	181	176	172	168	164	159	151
32	217	209	203	199	194	190	185	180	172
28	246	236	230	224	219	214	209	204	196
24	280	270	262	255	249	243	238	230	222
20	313	303	294	288	281	275	268	260	250
16	338	329	322	315	308	303	295	287	276

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/29	04/24	04/21	04/18	04/16	04/13	04/10	04/07	04/02
32	04/19	04/14	04/11	04/07	04/04	04/01	03/29	03/24	03/19
28	04/07	04/02	03/29	03/25	03/21	03/18	03/14	03/09	03/03
24	03/26	03/20	03/15	03/11	03/07	03/03	02/28	02/22	02/14
20	03/14	03/06	03/01	02/24	02/19	02/13	02/07	02/02	01/27
16	03/01	02/20	02/13	02/06	02/02	01/30	01/24	01/16	01/05
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	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/07
32	10/22	10/27	10/30	11/02	11/04	11/07	11/10	11/14	11/20
28	11/01	11/06	11/09	11/13	11/16	11/20	11/24	11/30	12/04
24	11/12	11/18	11/23	11/28	12/01	12/04	12/07	12/13	12/21
20	11/26	12/01	12/05	12/09	12/13	12/18	12/24	12/30	01/07
16	12/06	12/11	12/17	12/22	12/27	01/01	01/06	01/14	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	204	200	195	191	187	183	178	172
32	237	229	223	219	214	210	206	201	194
28	265	256	250	245	240	235	230	224	216
24	296	286	279	273	267	262	256	250	242
20	327	316	308	301	296	290	283	276	265
16	356	343	335	329	323	316	309	302	292

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	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	04/27	04/22	04/18	04/15	04/13	04/10	04/06	04/02	03/28
32	04/16	04/11	04/07	04/03	03/31	03/26	03/22	03/17	03/10
28	04/05	03/29	03/24	03/19	03/14	03/10	03/06	03/01	02/23
24	03/22	03/13	03/07	03/02	02/26	02/22	02/17	02/09	02/02
20	03/06	02/27	02/19	02/14	02/07	02/03	01/30	01/24	01/11
16	02/23	02/12	02/05	01/31	01/28	01/22	01/15	01/06	12/28
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	10/12	10/17	10/21	10/24	10/27	10/29	11/01	11/05	11/10
32	10/23	10/28	10/31	11/03	11/05	11/09	11/12	11/17	11/24
28	11/02	11/06	11/11	11/15	11/19	11/23	11/29	12/03	12/09
24	11/14	11/20	11/26	12/01	12/04	12/08	12/13	12/21	12/31
20	11/29	12/04	12/09	12/14	12/20	12/26	01/01	01/08	01/19
16	12/08	12/15	12/21	12/28	01/01	01/07	01/15	01/23	02/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	219	211	205	201	197	192	188	182	175
32	246	237	231	226	221	216	211	206	197
28	278	268	261	255	249	243	238	230	221
24	311	301	292	286	280	274	267	259	249
20	342	332	324	317	310	304	297	289	278
16	365	363	353	344	337	331	325	316	305

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	06/02	05/29	05/25	05/21	05/18	05/14	05/11	05/06	05/01
32	05/23	05/17	05/13	05/09	05/05	05/02	04/29	04/25	04/20
28	05/11	05/04	04/30	04/27	04/24	04/21	04/17	04/13	04/08
24	04/28	04/22	04/19	04/15	04/12	04/08	04/05	04/01	03/27
20	04/18	04/12	04/08	04/05	04/01	03/29	03/25	03/21	03/14
16	04/11	04/05	03/31	03/27	03/23	03/18	03/13	03/07	03/01
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	09/12	09/18	09/22	09/24	09/27	09/29	10/01	10/04	10/08
32	09/22	09/27	09/30	10/03	10/05	10/07	10/10	10/14	10/20
28	10/02	10/06	10/09	10/12	10/16	10/19	10/22	10/25	10/31
24	10/11	10/16	10/20	10/24	10/27	10/30	11/02	11/06	11/11
20	10/22	10/28	11/01	11/04	11/08	11/11	11/15	11/19	11/27
16	11/03	11/09	11/14	11/18	11/21	11/26	11/30	12/03	12/09
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	142	137	133	129	125	121	116	108
32	171	164	159	154	150	146	141	136	129
28	195	188	182	177	173	168	164	158	151
24	220	212	206	202	197	192	187	181	174
20	245	236	230	225	220	215	210	204	196
16	271	261	254	248	243	238	232	225	216

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/03	04/28	04/23	04/19	04/16	04/13	04/10	04/06	04/02
32	04/20	04/15	04/11	04/07	04/04	03/31	03/28	03/23	03/18
28	04/08	04/02	03/29	03/25	03/21	03/18	03/14	03/09	03/02
24	03/26	03/19	03/15	03/10	03/06	03/02	02/26	02/20	02/12
20	03/15	03/06	02/28	02/22	02/17	02/10	02/05	01/31	01/24
16	03/01	02/19	02/11	02/05	02/01	01/28	01/22	01/15	01/03
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	10/08	10/14	10/17	10/21	10/24	10/27	10/30	11/02	11/06
32	10/19	10/24	10/28	11/01	11/03	11/05	11/09	11/13	11/18
28	10/31	11/04	11/09	11/12	11/16	11/19	11/24	11/30	12/04
24	11/13	11/20	11/25	11/29	12/02	12/05	12/09	12/14	12/23
20	11/30	12/03	12/07	12/11	12/15	12/20	12/24	12/30	01/08
16	12/08	12/13	12/18	12/23	12/28	01/01	01/07	01/15	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	203	198	193	189	185	180	175	167
32	235	227	221	217	213	208	204	198	190
28	265	256	250	244	239	234	229	223	215
24	298	288	281	276	270	265	259	253	244
20	330	319	312	305	299	293	287	280	270
16	358	346	337	332	326	319	313	305	294

* 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

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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	05/14	05/09	05/05	05/02	04/30	04/27	04/24	04/20	04/15
32	05/04	04/29	04/24	04/21	04/18	04/15	04/11	04/07	04/01
28	04/20	04/14	04/10	04/06	04/03	03/31	03/26	03/21	03/14
24	04/06	04/01	03/27	03/22	03/18	03/13	03/09	03/04	02/26
20	03/24	03/15	03/10	03/04	02/28	02/23	02/19	02/13	02/04
16	03/10	02/28	02/21	02/15	02/10	02/05	02/01	01/28	01/18
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	10/01	10/04	10/07	10/10	10/12	10/15	10/18	10/21	10/27
32	10/08	10/13	10/16	10/19	10/22	10/25	10/28	11/01	11/05
28	10/18	10/24	10/28	10/31	11/02	11/05	11/08	11/13	11/19
24	10/31	11/05	11/10	11/14	11/17	11/21	11/27	12/01	12/07
20	11/15	11/22	11/27	12/01	12/04	12/08	12/12	12/19	12/28
16	12/01	12/06	12/10	12/14	12/20	12/24	12/29	01/04	01/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	185	178	173	169	165	161	157	152	145
32	209	201	195	191	186	182	178	173	166
28	238	229	223	218	213	209	204	198	190
24	272	262	255	249	244	239	233	226	217
20	307	298	291	284	278	272	266	259	249
16	337	328	320	314	307	302	295	286	276

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Summary of Annual Normals 1981-2010

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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	05/31	05/26	05/21	05/17	05/13	05/09	05/06	05/02	04/27
32	05/20	05/13	05/08	05/04	05/01	04/29	04/25	04/22	04/17
28	05/06	04/30	04/26	04/22	04/19	04/16	04/13	04/09	04/03
24	04/22	04/17	04/14	04/10	04/07	04/04	03/31	03/28	03/22
20	04/15	04/09	04/05	04/01	03/29	03/25	03/21	03/16	03/10
16	04/09	04/01	03/28	03/23	03/18	03/13	03/08	03/02	02/23
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	09/16	09/21	09/24	09/27	09/30	10/02	10/05	10/08	10/14
32	09/26	10/01	10/04	10/07	10/10	10/13	10/17	10/21	10/27
28	10/05	10/10	10/15	10/18	10/22	10/25	10/28	11/01	11/06
24	10/16	10/22	10/27	10/31	11/02	11/05	11/09	11/13	11/21
20	10/29	11/03	11/08	11/12	11/16	11/19	11/26	12/01	12/05
16	11/10	11/16	11/22	11/28	12/01	12/03	12/07	12/11	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	158	151	145	141	136	131	127	121	113
32	182	174	168	164	159	155	150	145	137
28	207	199	194	188	184	179	174	168	160
24	232	224	219	214	209	204	199	194	186
20	259	249	243	238	232	227	221	215	207
16	286	276	269	263	257	251	245	238	229

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Summary of Annual Normals 1981-2010

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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	04/25	04/21	04/17	04/14	04/11	04/07	04/04	04/01	03/26
32	04/14	04/08	04/04	04/01	03/29	03/25	03/21	03/16	03/10
28	04/02	03/28	03/22	03/17	03/13	03/09	03/04	02/28	02/23
24	03/20	03/11	03/05	02/28	02/25	02/21	02/16	02/09	02/02
20	03/02	02/23	02/16	02/10	02/04	02/01	01/29	01/21	01/11
16	02/16	02/05	02/01	01/29	01/25	01/19	01/14	01/08	12/30
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	10/12	10/17	10/21	10/24	10/27	10/30	11/01	11/05	11/10
32	10/21	10/27	10/31	11/02	11/05	11/08	11/12	11/17	11/24
28	11/01	11/05	11/10	11/15	11/19	11/24	11/30	12/03	12/10
24	11/15	11/22	11/29	12/01	12/05	12/09	12/14	12/22	01/01
20	12/01	12/06	12/11	12/16	12/22	12/28	01/02	01/09	01/20
16	12/10	12/17	12/24	12/30	01/04	01/09	01/15	01/21	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	218	211	206	201	197	193	188	183	177
32	245	237	231	225	221	216	211	205	198
28	277	268	261	254	249	243	237	230	221
24	312	302	294	287	281	276	269	262	251
20	345	334	329	321	315	309	302	295	284
16	365	365	355	347	340	335	331	324	314

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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	05/05	04/30	04/25	04/22	04/19	04/16	04/13	04/08	04/03
32	04/21	04/15	04/11	04/07	04/03	04/01	03/29	03/24	03/19
28	04/06	04/01	03/28	03/24	03/20	03/17	03/13	03/09	03/03
24	03/25	03/19	03/14	03/09	03/05	03/01	02/26	02/20	02/12
20	03/12	03/04	02/28	02/22	02/17	02/10	02/05	01/31	01/22
16	02/28	02/18	02/09	02/04	01/31	01/28	01/21	01/14	01/02
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	10/08	10/13	10/17	10/20	10/23	10/25	10/28	11/01	11/04
32	10/17	10/23	10/26	10/29	11/01	11/04	11/06	11/11	11/17
28	10/29	11/02	11/06	11/10	11/14	11/17	11/22	11/29	12/04
24	11/10	11/17	11/22	11/28	12/01	12/04	12/08	12/14	12/23
20	11/27	12/02	12/06	12/11	12/15	12/21	12/27	01/02	01/12
16	12/08	12/13	12/19	12/25	12/30	01/03	01/10	01/17	01/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	207	200	195	190	186	182	178	172	165
32	233	225	220	215	211	207	202	196	188
28	264	255	248	243	238	233	227	221	214
24	299	288	281	275	269	263	257	250	242
20	332	321	312	306	300	294	287	279	269
16	364	350	341	334	329	323	315	307	297

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/17	05/11	05/07	05/05	05/02	04/30	04/27	04/24	04/20
32	05/06	05/01	04/28	04/25	04/22	04/19	04/16	04/13	04/09
28	04/25	04/20	04/17	04/14	04/11	04/08	04/05	04/01	03/25
24	04/17	04/10	04/06	04/03	03/31	03/26	03/21	03/16	03/08
20	04/07	04/01	03/26	03/20	03/15	03/10	03/05	02/28	02/20
16	03/25	03/16	03/09	03/03	02/27	02/21	02/16	02/10	02/03
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	09/28	10/01	10/04	10/07	10/10	10/12	10/15	10/19	10/25
32	10/06	10/11	10/14	10/17	10/20	10/23	10/26	10/31	11/04
28	10/16	10/22	10/25	10/29	11/01	11/03	11/07	11/11	11/18
24	10/29	11/02	11/06	11/09	11/13	11/17	11/21	11/27	12/03
20	11/08	11/15	11/20	11/25	11/29	12/02	12/05	12/10	12/18
16	11/23	11/30	12/03	12/07	12/11	12/16	12/21	12/27	01/04
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	172	167	163	159	155	151	146	140
32	202	194	189	184	180	176	172	167	160
28	227	219	213	208	203	199	194	189	182
24	257	247	241	235	229	224	218	212	205
20	288	278	270	264	258	252	245	238	228
16	318	308	301	294	288	282	275	268	257

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Freeze Data									
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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/08	05/03	05/01	04/28	04/25	04/22	04/20	04/16	04/12
32	04/28	04/23	04/20	04/17	04/14	04/11	04/08	04/05	03/31
28	04/16	04/11	04/08	04/04	04/02	03/30	03/25	03/21	03/14
24	04/06	04/01	03/27	03/22	03/18	03/13	03/09	03/03	02/25
20	03/24	03/16	03/11	03/05	03/01	02/24	02/19	02/14	02/05
16	03/13	03/02	02/24	02/18	02/12	02/07	02/02	01/29	01/18
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	10/04	10/07	10/11	10/14	10/16	10/19	10/23	10/27	11/01
32	10/11	10/16	10/20	10/24	10/26	10/29	11/01	11/04	11/08
28	10/22	10/27	10/31	11/03	11/05	11/08	11/12	11/16	11/24
24	11/03	11/08	11/12	11/15	11/19	11/22	11/27	12/01	12/08
20	11/17	11/23	11/29	12/01	12/05	12/08	12/13	12/19	12/27
16	12/02	12/07	12/11	12/15	12/20	12/24	12/29	01/04	01/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	192	186	181	177	173	169	165	161	154
32	214	208	202	198	194	190	186	181	174
28	243	234	227	222	218	213	209	204	196
24	274	264	258	252	246	241	235	229	221
20	308	298	291	285	279	273	266	260	250
16	336	327	320	314	308	302	295	287	277

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/01	04/25	04/21	04/17	04/13	04/10	04/06	04/02	03/27
32	04/18	04/12	04/07	04/04	03/31	03/28	03/23	03/18	03/11
28	04/05	03/30	03/24	03/19	03/14	03/10	03/05	02/28	02/20
24	03/21	03/12	03/05	02/28	02/23	02/17	02/11	02/04	01/28
20	03/02	02/22	02/14	02/06	02/01	01/29	01/22	01/13	12/31
16	02/14	02/03	01/30	01/25	01/19	01/11	01/04	12/30	12/21
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	10/11	10/17	10/21	10/25	10/29	11/01	11/03	11/07	11/12
32	10/20	10/27	11/01	11/03	11/06	11/10	11/14	11/19	11/28
28	11/01	11/06	11/11	11/16	11/21	11/26	12/01	12/04	12/12
24	11/15	11/22	11/29	12/02	12/05	12/10	12/16	12/24	01/03
20	12/01	12/05	12/11	12/16	12/22	12/28	01/02	01/10	01/23
16	12/09	12/16	12/22	12/27	01/01	01/06	01/13	01/21	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	220	212	205	200	196	191	186	180	172
32	246	237	230	224	219	214	209	202	194
28	281	270	262	256	249	243	237	229	220
24	319	307	299	291	285	277	271	262	250
20	356	343	334	328	320	313	305	297	284
16	365	365	365	359	351	344	337	332	319

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/10	05/04	04/30	04/26	04/23	04/20	04/17	04/13	04/08
32	04/24	04/19	04/15	04/11	04/08	04/05	04/02	03/30	03/24
28	04/12	04/07	04/03	03/31	03/28	03/24	03/20	03/16	03/11
24	03/31	03/26	03/20	03/16	03/12	03/09	03/05	03/01	02/24
20	03/18	03/12	03/08	03/03	02/28	02/24	02/19	02/11	02/01
16	03/08	02/28	02/23	02/16	02/10	02/02	01/29	01/21	01/10
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	10/02	10/07	10/11	10/15	10/18	10/21	10/24	10/28	11/02
32	10/12	10/18	10/22	10/25	10/28	10/31	11/03	11/06	11/13
28	10/24	10/29	11/02	11/05	11/08	11/12	11/17	11/23	12/01
24	11/04	11/11	11/16	11/21	11/26	12/01	12/04	12/09	12/18
20	11/19	11/29	12/02	12/05	12/10	12/15	12/22	12/29	01/06
16	12/01	12/08	12/15	12/22	12/28	01/01	01/07	01/15	01/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	190	184	180	175	171	166	161	153
32	223	215	210	205	200	196	191	186	177
28	252	243	236	231	226	221	216	210	202
24	285	275	268	262	256	250	244	237	227
20	317	306	300	293	286	279	273	266	256
16	350	338	331	323	316	309	302	294	282

* 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 09/18/2019

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	05/26	05/19	05/15	05/12	05/09	05/06	05/03	04/30	04/26
32	05/14	05/09	05/05	05/02	04/30	04/27	04/24	04/21	04/16
28	05/04	04/30	04/25	04/22	04/18	04/15	04/12	04/09	04/03
24	04/22	04/16	04/12	04/09	04/06	04/02	03/30	03/25	03/19
20	04/10	04/05	04/01	03/28	03/24	03/20	03/15	03/09	03/01
16	03/31	03/23	03/17	03/12	03/06	03/01	02/24	02/18	02/10
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	09/21	09/26	09/29	10/01	10/04	10/06	10/10	10/14	10/19
32	09/30	10/04	10/07	10/10	10/13	10/16	10/19	10/23	10/29
28	10/07	10/13	10/16	10/20	10/23	10/26	10/29	11/01	11/06
24	10/17	10/23	10/26	10/30	11/02	11/04	11/08	11/12	11/19
20	10/29	11/03	11/07	11/11	11/15	11/19	11/23	11/29	12/04
16	11/11	11/18	11/24	11/28	12/01	12/04	12/08	12/14	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	166	159	154	150	146	142	138	133	126
32	186	179	174	170	166	161	157	152	145
28	208	201	196	191	187	182	177	172	165
24	235	226	219	214	210	205	200	195	186
20	264	254	247	241	236	231	225	218	210
16	300	289	281	274	268	262	255	248	238

* 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

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Summary of Annual Normals 1981-2010

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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	05/12	05/07	05/03	04/30	04/28	04/25	04/22	04/18	04/13
32	05/03	04/28	04/23	04/20	04/17	04/13	04/10	04/05	03/31
28	04/21	04/15	04/11	04/07	04/03	03/31	03/26	03/21	03/14
24	04/08	04/01	03/28	03/23	03/19	03/14	03/09	03/04	02/26
20	03/26	03/17	03/11	03/05	02/28	02/24	02/19	02/12	02/01
16	03/09	02/28	02/22	02/16	02/09	02/02	01/30	01/23	01/12
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	10/03	10/06	10/10	10/13	10/16	10/20	10/23	10/26	11/01
32	10/10	10/15	10/20	10/23	10/26	10/29	11/01	11/04	11/08
28	10/19	10/25	10/30	11/02	11/05	11/08	11/12	11/16	11/22
24	10/31	11/06	11/11	11/15	11/19	11/24	11/29	12/02	12/08
20	11/17	11/24	11/30	12/02	12/05	12/08	12/13	12/20	12/30
16	12/01	12/05	12/09	12/14	12/20	12/25	12/31	01/05	01/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	191	184	178	174	170	166	162	157	150
32	213	205	200	195	191	186	181	176	168
28	240	232	225	220	215	210	205	199	190
24	274	264	257	250	245	239	233	226	216
20	310	300	291	284	278	273	266	258	248
16	343	333	325	318	311	305	297	289	278

* 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

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Summary of Annual Normals 1981-2010

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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	04/28	04/21	04/17	04/14	04/11	04/07	04/04	04/01	03/27
32	04/14	04/09	04/05	04/01	03/30	03/26	03/22	03/17	03/11
28	04/02	03/28	03/23	03/18	03/14	03/10	03/05	02/28	02/23
24	03/20	03/12	03/06	03/01	02/26	02/21	02/15	02/08	02/01
20	03/08	02/27	02/18	02/10	02/05	02/01	01/29	01/22	01/11
16	02/20	02/09	02/02	01/30	01/26	01/20	01/14	01/05	12/27
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	10/13	10/19	10/23	10/26	10/29	11/01	11/04	11/08	11/14
32	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/22	12/01
28	11/04	11/10	11/16	11/20	11/25	11/30	12/03	12/06	12/13
24	11/20	11/28	12/02	12/05	12/08	12/12	12/17	12/23	01/01
20	12/04	12/09	12/13	12/17	12/22	12/26	01/01	01/06	01/18
16	12/11	12/16	12/22	12/27	12/31	01/04	01/11	01/19	01/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	222	214	209	204	200	195	190	185	177
32	251	242	236	230	225	220	215	209	200
28	282	273	266	260	255	249	244	237	227
24	315	305	298	291	286	280	274	267	257
20	346	335	328	322	315	309	302	294	283
16	365	363	354	346	339	334	328	318	307

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/24	04/19	04/15	04/12	04/08	04/05	04/01	03/28	03/21
32	04/14	04/08	04/04	03/31	03/28	03/24	03/19	03/14	03/05
28	04/01	03/26	03/21	03/15	03/10	03/04	02/28	02/22	02/13
24	03/17	03/08	03/01	02/24	02/19	02/13	02/06	01/31	01/22
20	02/28	02/19	02/12	02/06	02/01	01/28	01/22	01/14	12/31
16	02/13	02/04	01/31	01/26	01/21	01/15	01/08	12/31	12/22
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	10/15	10/22	10/26	10/31	11/02	11/05	11/10	11/15	11/21
32	10/25	11/01	11/04	11/08	11/13	11/18	11/23	11/30	12/05
28	11/03	11/11	11/18	11/23	11/29	12/02	12/05	12/11	12/21
24	11/17	11/27	12/01	12/05	12/09	12/14	12/20	12/29	01/08
20	12/01	12/06	12/12	12/17	12/23	12/30	01/04	01/13	01/25
16	12/07	12/14	12/20	12/27	01/01	01/07	01/15	01/23	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	234	224	218	213	208	203	197	192	183
32	262	252	244	238	232	226	220	213	204
28	294	283	276	269	262	256	249	241	230
24	327	315	307	300	293	286	280	272	260
20	358	343	335	329	323	316	308	300	288
16	365	365	365	355	347	340	334	327	316

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	05/02	04/25	04/21	04/17	04/14	04/11	04/08	04/04	03/31
32	04/17	04/12	04/07	04/04	04/01	03/28	03/24	03/20	03/15
28	04/05	03/31	03/26	03/22	03/18	03/14	03/10	03/06	02/28
24	03/23	03/16	03/11	03/06	03/02	02/28	02/23	02/17	02/08
20	03/10	03/02	02/24	02/18	02/12	02/07	02/03	01/30	01/21
16	02/26	02/16	02/07	02/03	01/31	01/27	01/21	01/14	01/04
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	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/06	11/11
32	10/26	10/31	11/03	11/05	11/08	11/11	11/14	11/18	11/25
28	11/05	11/10	11/14	11/18	11/21	11/26	12/01	12/04	12/09
24	11/16	11/23	11/29	12/02	12/05	12/08	12/13	12/19	12/28
20	12/01	12/05	12/09	12/14	12/19	12/24	12/29	01/04	01/14
16	12/09	12/15	12/21	12/27	12/31	01/05	01/12	01/19	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	209	204	200	195	191	186	181	173
32	244	236	231	226	221	217	212	206	199
28	274	266	259	254	249	244	239	233	225
24	306	296	289	283	277	271	265	259	249
20	335	326	319	312	306	300	293	286	275
16	363	350	343	336	331	326	319	311	300

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Summary of Annual Normals 1981-2010

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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	04/09	04/04	03/31	03/29	03/25	03/22	03/19	03/15	03/10
32	03/28	03/23	03/19	03/15	03/12	03/08	03/05	02/28	02/23
28	03/16	03/09	03/04	02/28	02/24	02/20	02/15	02/09	02/02
24	03/01	02/22	02/16	02/10	02/05	02/01	01/29	01/22	01/11
20	02/16	02/06	02/01	01/30	01/27	01/22	01/16	01/09	12/31
16	02/05	01/31	01/28	01/24	01/19	01/14	01/09	01/04	12/29
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	10/31	11/04	11/08	11/11	11/15	11/19	11/23	11/28	12/03
32	11/11	11/17	11/21	11/26	11/30	12/02	12/06	12/11	12/19
28	11/25	12/01	12/05	12/09	12/13	12/18	12/23	12/30	01/05
24	12/07	12/13	12/19	12/24	12/29	01/01	01/06	01/13	01/23
20	12/15	12/23	12/29	01/02	01/06	01/11	01/17	01/23	01/31
16	12/23	12/30	01/03	01/07	01/11	01/16	01/21	01/26	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	257	249	243	238	234	229	224	219	211
32	288	278	272	266	261	257	251	246	237
28	319	309	302	297	292	286	280	273	264
24	350	338	332	327	321	315	309	303	293
20	365	365	358	350	343	337	333	327	316
16	365	365	365	365	365	360	351	341	334

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-4444: year-round risk of frost-freeze

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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	04/25	04/20	04/17	04/14	04/11	04/07	04/04	03/31	03/26
32	04/15	04/09	04/05	04/01	03/29	03/26	03/22	03/17	03/11
28	04/01	03/27	03/22	03/17	03/13	03/09	03/04	02/28	02/21
24	03/18	03/10	03/04	02/28	02/24	02/19	02/12	02/05	01/31
20	03/01	02/21	02/13	02/06	02/01	01/30	01/24	01/17	01/07
16	02/09	02/01	01/29	01/25	01/20	01/15	01/09	01/04	12/28
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	10/18	10/24	10/27	10/31	11/02	11/05	11/08	11/12	11/17
32	10/29	11/02	11/06	11/10	11/13	11/17	11/20	11/25	12/02
28	11/08	11/15	11/19	11/23	11/27	12/01	12/04	12/09	12/17
24	11/22	11/30	12/03	12/06	12/11	12/16	12/21	12/27	01/05
20	12/05	12/12	12/17	12/22	12/27	01/01	01/05	01/13	01/22
16	12/13	12/21	12/28	01/01	01/05	01/10	01/16	01/22	01/29
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	226	219	213	209	205	200	196	191	184
32	253	244	238	233	228	223	218	212	205
28	285	275	268	262	257	251	245	239	230
24	320	310	303	296	290	284	277	270	260
20	353	342	334	330	324	317	310	302	291
16	365	365	364	357	349	343	337	333	323

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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	04/24	04/20	04/15	04/12	04/08	04/05	04/01	03/28	03/21
32	04/13	04/06	04/02	03/29	03/24	03/20	03/15	03/10	03/04
28	03/30	03/23	03/17	03/12	03/08	03/04	02/28	02/23	02/14
24	03/14	03/06	03/01	02/25	02/20	02/15	02/09	02/02	01/26
20	02/28	02/19	02/13	02/06	02/02	01/30	01/24	01/16	01/03
16	02/13	02/03	01/31	01/27	01/22	01/16	01/10	01/03	12/26
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	10/23	10/29	11/01	11/04	11/06	11/10	11/13	11/17	11/22
32	11/02	11/07	11/11	11/15	11/18	11/21	11/25	12/01	12/06
28	11/14	11/20	11/25	11/29	12/02	12/05	12/09	12/15	12/26
24	11/28	12/02	12/07	12/12	12/16	12/22	12/28	01/03	01/13
20	12/08	12/16	12/22	12/27	01/01	01/05	01/12	01/19	01/30
16	12/15	12/24	12/30	01/03	01/08	01/15	01/20	01/27	02/03
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	236	228	222	217	213	209	204	199	191
32	264	255	248	243	238	233	228	222	213
28	297	287	279	273	267	262	256	249	240
24	329	318	310	303	298	292	286	278	269
20	364	349	339	333	328	322	315	307	298
16	365	365	365	365	356	347	339	334	325

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Summary of Annual Normals 1981-2010

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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	06/11	06/05	06/01	05/31	05/27	05/24	05/20	05/16	05/11
32	05/31	05/27	05/23	05/19	05/16	05/13	05/10	05/07	05/02
28	05/23	05/17	05/12	05/09	05/06	05/04	05/01	04/28	04/22
24	05/12	05/07	05/03	05/01	04/28	04/25	04/22	04/18	04/14
20	05/03	04/29	04/25	04/22	04/19	04/16	04/13	04/10	04/05
16	04/25	04/21	04/17	04/14	04/11	04/08	04/05	04/01	03/25
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	09/04	09/11	09/15	09/19	09/22	09/25	09/28	10/01	10/06
32	09/12	09/19	09/23	09/26	09/29	10/01	10/05	10/08	10/14
28	09/22	09/28	10/02	10/05	10/08	10/11	10/14	10/18	10/23
24	10/02	10/06	10/11	10/14	10/17	10/21	10/24	10/27	11/01
20	10/10	10/15	10/20	10/23	10/26	10/29	11/01	11/06	11/12
16	10/18	10/24	10/29	11/01	11/05	11/08	11/12	11/18	11/25
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	130	125	120	116	112	107	101	92
32	155	148	143	138	134	130	125	119	112
28	173	166	161	157	153	149	144	139	132
24	192	185	180	175	171	167	162	157	150
20	210	203	197	193	189	185	180	175	168
16	234	225	218	213	208	204	199	192	185

* 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

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Summary of Annual Normals 1981-2010

Generated on 09/18/2019

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	04/28	04/22	04/18	04/15	04/12	04/08	04/05	04/01	03/26
32	04/15	04/10	04/05	04/02	03/30	03/25	03/21	03/16	03/10
28	04/03	03/29	03/23	03/18	03/14	03/10	03/05	03/01	02/23
24	03/20	03/13	03/07	03/02	02/27	02/22	02/18	02/11	02/05
20	03/07	02/28	02/20	02/15	02/10	02/05	02/01	01/27	01/16
16	02/24	02/13	02/05	02/01	01/29	01/23	01/16	01/07	12/29
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	10/15	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/16
32	10/28	11/01	11/05	11/08	11/12	11/16	11/20	11/26	12/02
28	11/07	11/14	11/19	11/24	11/29	12/01	12/05	12/09	12/18
24	11/21	11/29	12/02	12/05	12/09	12/14	12/19	12/26	01/03
20	12/03	12/08	12/12	12/17	12/23	12/28	01/02	01/11	01/22
16	12/10	12/16	12/22	12/27	01/01	01/07	01/15	01/24	02/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	224	216	210	205	201	197	192	186	178
32	254	245	239	233	228	223	218	212	205
28	285	275	269	263	257	252	246	239	230
24	314	305	298	291	286	280	274	267	258
20	342	331	324	318	312	306	300	292	281
16	365	361	351	343	335	330	324	316	305

* 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

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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	05/27	05/21	05/16	05/12	05/09	05/07	05/04	04/30	04/26
32	05/14	05/08	05/05	05/02	04/30	04/27	04/24	04/20	04/15
28	05/03	04/27	04/23	04/20	04/17	04/14	04/11	04/07	04/01
24	04/20	04/15	04/11	04/08	04/04	04/01	03/28	03/23	03/16
20	04/10	04/04	03/30	03/26	03/22	03/17	03/11	03/05	02/26
16	03/29	03/22	03/16	03/10	03/04	02/28	02/22	02/17	02/07
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	09/24	09/29	10/01	10/04	10/06	10/09	10/12	10/15	10/20
32	10/02	10/05	10/08	10/12	10/15	10/18	10/21	10/24	10/30
28	10/08	10/15	10/19	10/22	10/24	10/27	10/31	11/03	11/07
24	10/18	10/24	10/28	11/01	11/03	11/05	11/08	11/12	11/20
20	10/31	11/04	11/08	11/11	11/15	11/19	11/24	12/01	12/06
16	11/10	11/17	11/24	11/29	12/02	12/05	12/09	12/15	12/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	168	160	155	151	147	143	138	133	126
32	188	180	175	171	166	162	158	153	146
28	211	203	198	194	189	185	180	175	168
24	238	229	222	217	212	208	203	198	190
20	270	259	251	245	240	234	228	222	213
16	303	292	284	277	271	264	257	250	240

* 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

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Summary of Annual Normals 1981-2010

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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	05/10	05/04	05/01	04/27	04/23	04/20	04/16	04/13	04/08
32	04/28	04/21	04/16	04/13	04/10	04/06	04/03	04/01	03/26
28	04/12	04/06	04/03	03/31	03/28	03/25	03/21	03/18	03/13
24	04/01	03/27	03/23	03/19	03/15	03/12	03/08	03/03	02/27
20	03/20	03/15	03/10	03/05	03/01	02/26	02/20	02/13	02/05
16	03/10	03/01	02/22	02/16	02/09	02/04	01/31	01/27	01/16
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	10/04	10/07	10/11	10/14	10/17	10/20	10/23	10/27	11/01
32	10/12	10/17	10/21	10/24	10/27	10/30	11/03	11/06	11/13
28	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/23	12/01
24	11/06	11/13	11/18	11/22	11/28	12/01	12/04	12/08	12/14
20	11/21	11/29	12/02	12/05	12/09	12/13	12/17	12/23	12/31
16	12/03	12/09	12/13	12/17	12/22	12/27	01/01	01/06	01/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	189	183	179	175	170	166	160	154
32	222	214	209	204	199	195	190	184	176
28	252	243	237	232	227	222	217	211	203
24	281	272	266	261	256	251	245	239	230
20	312	302	295	289	283	277	272	265	257
16	340	331	323	317	310	305	298	291	280

* 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

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Summary of Annual Normals 1981-2010

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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	04/27	04/22	04/19	04/16	04/14	04/11	04/07	04/04	03/30
32	04/17	04/11	04/07	04/04	04/01	03/29	03/25	03/20	03/14
28	04/04	03/29	03/24	03/20	03/16	03/12	03/07	03/02	02/25
24	03/20	03/13	03/07	03/03	02/27	02/23	02/18	02/10	02/02
20	03/06	02/27	02/20	02/14	02/07	02/02	01/29	01/21	01/11
16	02/19	02/08	02/01	01/29	01/24	01/19	01/13	01/06	12/29
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	10/13	10/18	10/22	10/25	10/28	10/31	11/02	11/05	11/11
32	10/22	10/28	11/01	11/03	11/06	11/10	11/13	11/18	11/25
28	11/02	11/08	11/13	11/18	11/22	11/27	12/01	12/04	12/12
24	11/19	11/27	12/01	12/04	12/08	12/13	12/18	12/25	01/03
20	12/04	12/10	12/15	12/20	12/25	12/31	01/04	01/11	01/22
16	12/12	12/20	12/26	12/31	01/05	01/10	01/17	01/23	01/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	216	209	204	200	196	192	188	183	176
32	243	235	229	223	219	214	210	204	197
28	279	268	261	255	250	244	238	231	222
24	314	304	297	290	284	278	272	264	255
20	349	336	330	323	316	309	303	295	284
16	365	365	358	350	343	337	332	324	311

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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	04/30	04/24	04/21	04/18	04/16	04/13	04/10	04/06	04/02
32	04/18	04/13	04/10	04/07	04/04	04/01	03/29	03/24	03/18
28	04/08	04/02	03/30	03/26	03/22	03/18	03/13	03/08	03/02
24	03/28	03/21	03/15	03/10	03/05	02/28	02/25	02/20	02/10
20	03/12	03/02	02/25	02/20	02/14	02/08	02/02	01/30	01/20
16	02/23	02/14	02/05	02/01	01/30	01/25	01/19	01/12	01/02
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	10/10	10/15	10/19	10/22	10/25	10/28	10/31	11/03	11/08
32	10/19	10/25	10/29	11/01	11/04	11/06	11/10	11/14	11/20
28	10/30	11/04	11/08	11/13	11/16	11/20	11/25	12/01	12/05
24	11/12	11/19	11/25	11/30	12/02	12/05	12/10	12/16	12/25
20	12/01	12/04	12/08	12/13	12/18	12/23	12/29	01/03	01/13
16	12/10	12/16	12/23	12/28	01/01	01/06	01/12	01/18	01/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	204	199	195	191	187	183	178	170
32	236	228	223	218	213	209	205	200	192
28	266	256	250	244	239	233	228	222	213
24	301	290	282	276	270	264	258	251	241
20	334	324	316	309	303	297	290	282	271
16	365	352	344	337	333	328	320	312	302

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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	05/01	04/25	04/22	04/19	04/16	04/14	04/11	04/07	04/02
32	04/18	04/14	04/10	04/07	04/04	04/01	03/29	03/24	03/18
28	04/09	04/03	03/30	03/26	03/21	03/17	03/12	03/07	03/01
24	03/29	03/20	03/14	03/09	03/04	02/28	02/24	02/18	02/07
20	03/10	03/01	02/24	02/19	02/12	02/05	01/31	01/26	01/14
16	02/22	02/13	02/04	01/31	01/27	01/21	01/15	01/08	12/30
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	10/07	10/12	10/16	10/20	10/23	10/26	10/29	11/01	11/06
32	10/16	10/22	10/26	10/30	11/01	11/05	11/08	11/13	11/20
28	10/27	11/01	11/06	11/10	11/14	11/18	11/24	12/01	12/06
24	11/08	11/16	11/22	11/28	12/01	12/05	12/10	12/16	12/28
20	11/26	12/02	12/07	12/12	12/18	12/23	12/30	01/05	01/16
16	12/09	12/15	12/22	12/28	01/01	01/06	01/13	01/21	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	202	197	193	189	184	180	175	168
32	236	227	221	216	212	207	202	197	190
28	267	256	249	243	238	232	226	219	210
24	302	291	283	276	270	263	257	249	238
20	338	328	319	312	306	299	292	283	271
16	365	361	352	344	337	332	326	316	306

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/03	04/29	04/25	04/22	04/18	04/16	04/13	04/09	04/04
32	04/22	04/17	04/14	04/11	04/08	04/05	04/02	03/29	03/23
28	04/12	04/07	04/02	03/30	03/27	03/24	03/20	03/15	03/09
24	03/31	03/26	03/22	03/17	03/13	03/09	03/04	02/28	02/21
20	03/19	03/12	03/06	03/02	02/26	02/20	02/14	02/06	01/30
16	03/06	02/27	02/19	02/12	02/06	02/01	01/28	01/20	01/08
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	10/06	10/10	10/14	10/17	10/21	10/24	10/27	10/30	11/03
32	10/15	10/20	10/24	10/28	10/31	11/01	11/04	11/08	11/13
28	10/25	10/31	11/02	11/05	11/08	11/11	11/15	11/20	11/28
24	11/03	11/08	11/12	11/17	11/21	11/25	12/01	12/04	12/11
20	11/14	11/22	11/28	12/02	12/05	12/09	12/14	12/22	01/01
16	11/30	12/05	12/10	12/15	12/21	12/28	01/02	01/10	01/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	204	197	192	187	183	179	175	169	163
32	225	218	212	208	204	200	196	190	183
28	251	243	236	231	226	222	217	212	204
24	283	273	265	259	253	248	242	235	226
20	316	305	297	290	283	277	270	263	253
16	348	335	328	321	314	307	300	292	280

* 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

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	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/21	05/15	05/11	05/08	05/06	05/03	04/30	04/27	04/23
32	05/11	05/06	05/03	04/30	04/27	04/23	04/20	04/16	04/11
28	05/01	04/24	04/20	04/16	04/13	04/09	04/06	04/02	03/28
24	04/13	04/08	04/04	04/01	03/29	03/26	03/23	03/19	03/13
20	04/02	03/28	03/23	03/19	03/16	03/11	03/07	03/01	02/23
16	03/21	03/15	03/08	03/02	02/27	02/21	02/15	02/08	02/02
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	09/25	09/29	10/02	10/05	10/07	10/10	10/14	10/17	10/22
32	10/03	10/08	10/12	10/15	10/17	10/20	10/24	10/27	11/01
28	10/12	10/18	10/22	10/25	10/28	11/01	11/02	11/05	11/10
24	10/22	10/29	11/01	11/05	11/07	11/10	11/14	11/18	11/27
20	11/04	11/10	11/14	11/18	11/22	11/27	12/01	12/04	12/11
16	11/18	11/25	12/01	12/03	12/07	12/11	12/16	12/23	12/31
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	172	166	161	157	153	149	144	140	133
32	193	186	181	176	172	168	164	159	151
28	218	211	205	200	196	191	186	181	173
24	247	238	232	227	223	218	213	208	200
20	279	269	262	256	251	246	240	234	226
16	314	304	296	289	283	278	271	263	253

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Temp (F)	Probability of later date in spring (through Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	05/26	05/19	05/14	05/10	05/07	05/04	05/01	04/28	04/23
32	05/13	05/07	05/02	04/29	04/26	04/23	04/19	04/15	04/11
28	05/01	04/24	04/19	04/16	04/13	04/10	04/06	04/03	03/29
24	04/16	04/11	04/06	04/02	03/31	03/28	03/24	03/18	03/11
20	04/03	03/30	03/26	03/21	03/17	03/12	03/07	02/28	02/22
16	03/25	03/18	03/12	03/06	03/01	02/24	02/19	02/13	02/04
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	09/21	09/26	09/29	10/01	10/03	10/06	10/09	10/13	10/18
32	09/30	10/04	10/06	10/10	10/13	10/16	10/19	10/23	10/30
28	10/06	10/12	10/16	10/19	10/22	10/26	10/29	11/02	11/07
24	10/16	10/22	10/26	10/30	11/02	11/05	11/08	11/13	11/22
20	10/29	11/03	11/08	11/12	11/16	11/21	11/27	12/01	12/07
16	11/11	11/18	11/25	12/01	12/03	12/06	12/11	12/19	12/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	161	156	152	147	143	139	133	126
32	191	184	178	174	169	165	160	154	146
28	215	207	201	196	192	187	182	176	168
24	243	234	227	221	216	211	206	200	191
20	277	266	258	251	245	239	233	226	217
16	308	298	289	282	276	270	263	255	245

* 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 09/18/2019

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	04/21	04/16	04/12	04/09	04/06	04/03	03/31	03/27	03/22
32	04/10	04/05	03/31	03/28	03/25	03/22	03/18	03/15	03/09
28	03/29	03/23	03/19	03/14	03/11	03/07	03/04	02/28	02/21
24	03/16	03/08	03/02	02/27	02/22	02/17	02/10	02/03	01/27
20	02/28	02/20	02/12	02/05	02/01	01/29	01/23	01/16	01/05
16	02/12	02/03	01/31	01/27	01/21	01/16	01/10	01/04	12/26
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	10/15	10/21	10/25	10/28	10/31	11/02	11/05	11/09	11/14
32	10/28	11/01	11/04	11/08	11/11	11/14	11/18	11/22	12/01
28	11/08	11/13	11/17	11/21	11/25	11/30	12/03	12/08	12/15
24	11/19	11/27	12/01	12/05	12/09	12/14	12/19	12/26	01/04
20	12/02	12/09	12/14	12/20	12/26	12/31	01/04	01/12	01/22
16	12/11	12/20	12/27	01/01	01/04	01/10	01/16	01/22	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	227	220	215	211	206	202	198	192	185
32	255	247	241	236	231	226	222	216	208
28	287	277	270	264	259	254	248	242	233
24	322	311	303	296	290	284	278	270	261
20	355	342	334	329	323	316	309	302	290
16	365	365	363	354	347	341	335	330	320

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Summary of Annual Normals 1981-2010

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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	04/19	04/14	04/10	04/07	04/04	04/01	03/29	03/25	03/20
32	04/08	04/02	03/30	03/26	03/22	03/19	03/15	03/11	03/05
28	03/28	03/21	03/17	03/12	03/08	03/04	02/28	02/24	02/16
24	03/13	03/05	02/28	02/24	02/19	02/12	02/06	02/01	01/24
20	02/27	02/17	02/08	02/03	01/31	01/26	01/20	01/13	01/03
16	02/13	02/02	01/30	01/25	01/20	01/15	01/10	01/04	12/27
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	10/15	10/21	10/25	10/29	11/01	11/03	11/06	11/10	11/17
32	10/26	11/01	11/04	11/07	11/11	11/15	11/19	11/26	12/02
28	11/06	11/12	11/17	11/22	11/28	12/01	12/05	12/10	12/18
24	11/20	11/29	12/02	12/06	12/11	12/16	12/21	12/28	01/05
20	12/04	12/11	12/16	12/22	12/28	01/01	01/06	01/13	01/23
16	12/13	12/22	12/28	01/01	01/06	01/11	01/17	01/23	01/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	231	223	218	213	209	205	201	196	189
32	259	250	244	239	234	228	223	218	210
28	290	280	273	267	261	256	250	243	233
24	325	314	306	300	293	287	280	273	262
20	358	346	338	333	327	320	313	305	294
16	365	365	365	358	351	344	338	332	321

* 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

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