

Summary of Annual Normals 1991-2020

Generated on 05/02/2024

Current Location: Elev: 1310 ft. Lat: 47.2436° N Lon: 93.4975° W
 Station: **GRAND RPDS FOREST LAB, MN US USC00213303**

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	06/13	06/07	06/03	05/31	05/29	05/26	05/23	05/20	05/16
32	05/31	05/26	05/23	05/20	05/17	05/14	05/11	05/07	05/03
28	05/19	05/15	05/12	05/09	05/06	05/03	05/01	04/28	04/24
24	05/11	05/04	05/01	04/29	04/26	04/23	04/20	04/16	04/12
20	04/29	04/25	04/21	04/18	04/15	04/12	04/09	04/06	04/02
16	04/21	04/16	04/12	04/09	04/06	04/04	04/02	03/30	03/24
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	08/30	09/04	09/09	09/12	09/15	09/17	09/20	09/23	09/27
32	09/10	09/15	09/18	09/21	09/24	09/27	09/29	10/03	10/07
28	09/20	09/25	09/29	10/01	10/05	10/08	10/12	10/15	10/20
24	10/01	10/06	10/11	10/15	10/18	10/22	10/25	10/29	11/03
20	10/16	10/22	10/26	10/30	11/01	11/03	11/06	11/09	11/14
16	10/28	11/01	11/03	11/06	11/08	11/11	11/15	11/17	11/22
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	125.0	119.0	114.0	111.0	107.0	103.0	99.0	94.0	86.0
32	149.0	143.0	138.0	133.0	130.0	126.0	121.0	117.0	110.0
28	170.0	164.0	160.0	156.0	152.0	148.0	143.0	138.0	132.0
24	194.0	187.0	182.0	177.0	173.0	168.0	164.0	159.0	152.0
20	216.0	210.0	205.0	200.0	197.0	193.0	188.0	183.0	175.0
16	233.0	226.0	221.0	217.0	212.0	210.0	206.0	202.0	196.0

-9999: Data not available

* 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

blank: missing or insufficient data