

Current Location: Elev: 1428 ft. Lat: 46.8369° N Lon: 92.2097° W
Station: **DULUTH, MN US USW00014913**

Summary of Annual Normals
1991-2020
Generated on 05/02/2024

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	06/04	06/01	05/30	05/26	05/24	05/20	05/16	05/11
32	05/29	05/23	05/19	05/16	05/13	05/09	05/06	05/03	04/29
28	05/16	05/09	05/05	05/02	04/30	04/28	04/25	04/21	04/17
24	05/02	04/29	04/25	04/22	04/20	04/17	04/14	04/11	04/06
20	04/24	04/19	04/16	04/14	04/11	04/09	04/06	04/03	03/31
16	04/16	04/12	04/09	04/06	04/04	04/02	03/31	03/27	03/21
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	09/08	09/13	09/17	09/19	09/23	09/25	09/28	10/01	10/05
32	09/18	09/22	09/26	09/29	10/01	10/04	10/07	10/10	10/16
28	09/29	10/03	10/06	10/10	10/13	10/17	10/20	10/23	10/28
24	10/10	10/16	10/21	10/24	10/27	10/30	11/01	11/04	11/09
20	10/21	10/27	10/31	11/02	11/05	11/07	11/10	11/13	11/19
16	10/30	11/02	11/06	11/08	11/11	11/14	11/17	11/20	11/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	136.0	130.0	124.0	121.0	117.0	113.0	109.0	104.0	98.0
32	161.0	154.0	149.0	145.0	140.0	136.0	131.0	126.0	120.0
28	186.0	179.0	174.0	169.0	165.0	160.0	155.0	150.0	141.0
24	207.0	201.0	196.0	192.0	188.0	184.0	180.0	175.0	168.0
20	226.0	219.0	213.0	210.0	206.0	203.0	199.0	194.0	188.0
16	240.0	233.0	228.0	224.0	221.0	217.0	213.0	209.0	203.0

-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