

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information
 Service

**Summary of Annual Normals
 1981-2010**

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

Station: **NEW HOPE, MN US**

GHCND:USC00215838
 Elev: 286 ft. Lat: 45.010° N Lon: 93.379° W

| Freeze Data | | | | | | | | | |
|--|--|------------|------------|------------|------------|------------|------------|------------|------------|
| Spring Freeze Dates (Month/Day) | | | | | | | | | |
| Temp (F) | Probability of later date in spring (through Jul 31) than indicated(*) | | | | | | | | |
| | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 5/25 | 5/20 | 5/16 | 5/12 | 5/09 | 5/06 | 5/03 | 4/30 | 4/26 |
| 32 | 5/13 | 5/08 | 5/04 | 5/01 | 4/30 | 4/27 | 4/24 | 4/21 | 4/16 |
| 28 | 5/03 | 4/29 | 4/25 | 4/22 | 4/19 | 4/16 | 4/14 | 4/10 | 4/05 |
| 24 | 4/22 | 4/18 | 4/15 | 4/12 | 4/09 | 4/07 | 4/04 | 4/02 | 3/29 |
| 20 | 4/14 | 4/10 | 4/06 | 4/04 | 4/02 | 3/31 | 3/28 | 3/24 | 3/19 |
| 16 | 4/07 | 4/03 | 3/31 | 3/29 | 3/26 | 3/23 | 3/19 | 3/16 | 3/11 |
| Fall Freeze Dates (Month/Day) | | | | | | | | | |
| Temp (F) | Probability of earlier date in fall (beginning Aug 1) than indicated(*) | | | | | | | | |
| | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 9/18 | 9/22 | 9/25 | 9/27 | 9/29 | 10/01 | 10/04 | 10/06 | 10/10 |
| 32 | 9/25 | 9/29 | 10/02 | 10/04 | 10/07 | 10/09 | 10/12 | 10/16 | 10/21 |
| 28 | 10/03 | 10/08 | 10/12 | 10/15 | 10/18 | 10/21 | 10/24 | 10/27 | 11/01 |
| 24 | 10/14 | 10/19 | 10/23 | 10/26 | 10/29 | 11/01 | 11/03 | 11/06 | 11/12 |
| 20 | 10/25 | 10/31 | 11/02 | 11/04 | 11/07 | 11/10 | 11/13 | 11/16 | 11/21 |
| 16 | 11/02 | 11/06 | 11/09 | 11/12 | 11/15 | 11/18 | 11/22 | 11/25 | 11/29 |
| Freeze Free Period | | | | | | | | | |
| Temp (F) | Probability of longer than indicated freeze free period (Days) | | | | | | | | |
| | .10 | .20 | .30 | .40 | .50 | .60 | .70 | .80 | .90 |
| 36 | 159 | 153 | 149 | 145 | 142 | 138 | 134 | 129 | 123 |
| 32 | 179 | 172 | 168 | 163 | 160 | 156 | 152 | 147 | 140 |
| 28 | 201 | 194 | 189 | 185 | 181 | 177 | 172 | 167 | 160 |
| 24 | 220 | 214 | 209 | 205 | 202 | 198 | 194 | 189 | 182 |
| 20 | 238 | 231 | 227 | 223 | 219 | 215 | 211 | 207 | 200 |
| 16 | 254 | 248 | 242 | 238 | 235 | 231 | 227 | 222 | 216 |

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

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1981-2010 serially complete daily data