

Phenology calendar & data summary

Hubbard County, Minnesota

Phenology is the study of seasonal changes in plants and animals, and how those changes relate to climate. When you take note of nature’s calendar, by writing down your observations and wondering how it’s all connected, you’re thinking about phenology. Oftentimes, the concept of phenology is easiest to understood through examples, and several are listed in the grid below.

This calendar was made with historical records from Hubbard County. (For information on the source of records, see seasonwatch.umn.edu/orientation-center#data-collectors.) What species and seasonal changes will you notice in your local environment throughout the year? Explore the Season Watch website (seasonwatch.umn.edu) for resources and ideas. Enjoy tracking nature’s cycles in Minnesota!



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Average date	Phenological event In other words, “Which plant or animal can be seen doing what?”	Earliest date on record	Latest date on record	The average, earliest, and latest dates are based on:	Find out more, including how to make your own phenology observations
March 30	Great blue heron (<i>Ardea herodias</i>) first seen	March 19	April 8	18 records Collected from 1997 to 2014	seasonwatch.umn.edu/great-blue-heron
April 1	Eastern bluebird (<i>Sialia sialis</i>) first seen	March 15	April 29	18 records Collected from 1997 to 2014	seasonwatch.umn.edu/eastern-bluebird
April 6	Mourning cloak (<i>Nymphalis antiopa</i>) first seen	March 5	April 28	20 records Collected from 1995 to 2014	seasonwatch.umn.edu/mourning-cloak
April 10	Common loon (<i>Gavia immer</i>) first seen	March 24	April 25	18 records Collected from 1997 to 2014	seasonwatch.umn.edu/common-loon
April 28	Quaking aspen (<i>Populus tremuloides</i>) leaf buds break	April 5	May 20	18 records Collected from 1997 to 2014	seasonwatch.umn.edu/quaking-aspen
May 25	Canadian tiger swallowtail (<i>Papilio canadensis</i>) first seen	May 10	June 8	20 records Collected from 1995 to 2014	seasonwatch.umn.edu/canadian-tiger-swallowtail
June 15	Show lady’s slipper (<i>Cypripedium reginae</i>) flowering	June 3	June 29	18 records Collected from 1997 to 2014	seasonwatch.umn.edu/showy-ladys-slipper