





Common name: Cardinal flower Genus Species: Lobelia cardinalis



Photo credit: Joseph LaForest, University of Georgia Bugwood.org

**Description:** This perennial plant is usually unbranched and 2 to 3.5 feet tall. Cardinal flower boasts brilliant scarlet-colored blossoms. The flowers are delicate, gradually opening from bottom to top on slender spikes. Beneath the flower spikes are numerous dark green leaves, tapered at both ends.

**Habitats:** Cardinal flowers are a native wildflower species that grows in marshes, stream banks and low woods.

**Phenology highlight:** Few native plants have flowers of such intense red color as the cardinal flower, and blooms can be recognized at a good distance.

## Species facts:

- Cardinal flower is often considered to be a "hummingbird-specialist" flower, meaning that these birds are the dominant pollinators.
- Butterflies visit cardinal flowers for nectar.
- There are many traditional Native American uses for cardinal flower. Various plant parts were used to treat cramps and typhoid, to create a love charm, or as an emetic for an upset stomach.



Photo credit: Harlan B. Herbert, Bugwood.org



Why observe this species? Cardinal flower is one of the plant species observed by New York Phenology Project member organizations, and data gathered is contributed to the National Phenology Network database. The mission of this public participation in science research initiative is to educate and engage the public while collecting data that is useful for detecting broad scale patterns and changes in the natural world.

**Tip for observing this species:** Look for the white bearded anthers (the part of the male reproductive structure that holds the pollen) to indicate the Open Flower phenophase.

Map credit: USDA, NRCS. 2014. The PLANTS Database http://plants.usda.gov, 16 December 2015). National Plant Data Team, Greensboro, NC 27401-4901 USA

For more information about phenology and the New York Phenology Project (NYPP), please visit the NYPP website (www.nyphenologyproject.org) and the USA-NPN website (www.usanpn.org).







## Cardinal flower (Lobelia cardinalis)

**Note**: flower and fruit phenophases are nested so you may need to record more than one phenophase in each group; for example, if you record **Y** for "open flowers" you should also record **Y** for "flowers or flower buds."





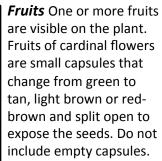
Leaves One or more live, fully unfolded leaves are visible. For seedlings, consider only true leaves, not the two small leaves (cotyledons) that are found on the stem immediately after the seedling germinates. Do not include dried or dead leaves.



Flowers or flower buds
One or more fresh open
or unopened flowers or
flower buds are visible
on the plant. Include
flower buds that are still
developing, but do not
include wilted or dried
flowers.



**Open flowers** One or more open, fresh flowers are visible. Flowers are open when reproductive parts (male stamens or female pistils) are visible between unfolded flower parts. Do not include wilted or dried flowers.





Ripe fruits One or more ripe fruits are visible on the plant. Cardinal flower fruit is considered ripe when it has turned tan, light brown or red-brown and split open to expose the seeds. Do not include empty capsules that have dropped all their seeds.

Recent fruit or seed drop One or more mature fruits or seeds have dropped or been removed from the plant since your last visit. Do not include immature fruits that fell before ripening or empty capsules.



All phenophases are pictured