Wildflowers of the Adirondacks

Starflower (Trientalis borealis Raf.)

Wildflowers of the Adirondacks: Starflower's small, white, star-shaped flowers appear in late May and June in the Adirondack Park. The flowers have six to eight petals (with seven most common), narrow, pointed light green sepals, and stamens topped with pale yellow anthers. Starflower near Craig Wood Golf Course, Lake Placid (26 May 2012).

Starflower (Trientalis borealis Raf.) is a low-growing wildflower which produces small, star-shaped white flowers in spring in the Adirondacks of upstate New York.

- The genus name (Trientalis) is from a Latin word meaning one-third of a foot. This is a reference to the height of the plant.
- The species name (borealis) is a reference to north, although this plant also grows in the Midwest and the higher elevations of the southern Appalachian Mountains.
- The author name (Raf.) is a reference to Constantine Samuel Rafinesque, a naturalist born in Constantinople in the late 18th century. He later settled in the US and recorded many new species of plants and animals.

Starflower, which has been categorized as part of the Primrose (Primulaceae) family, is now apparently being merged into other genera in the genus Lysimachia and given a new species name: Lysimachia borealis. This shift was the result of new analyses of molecular and morphological data.

- Other species in the Lysimachia genus which occur in the Adirondacks include Swamp Candles, Creeping Jenny, Fringed Loosestrife, and Tufted Loosestrife.
- The genus name (Lysimachia) may refer to King Lysimachus of Thrace, said to have been the first to discover the styptic and astringent qualities of some of the plants in this genus.
Wildflowers of the Adirondacks

Starflower leaves are lance-shaped, with one primary vein running from base to tip and secondary veins branching off at intervals. Starflower on Country Club Lane, Lake Placid (10 June 2017).

This shift has not yet been reflected in the Integrated Taxonomic Information System, which still carries this plant as *Trientalis borealis* Raf. Most sources (including *Flora of North America* and the US Department of Agriculture) still refer to Starflower as belonging to the genus *Trientalis*.

The plant's common name (Starflower) refers to the flower's star-like appearance. Other common names include Star Flower, Northern Starflower, American Starflower, Mayflower, Star-chickweed, Chickweed Wintergreen, and Star-of-Bethlehem.

**Identification of Starflower**

Starflower is a perennial, 4 to 8 inches tall (most typically under six inches). It grows from creeping rhizomes and tends to form colonies. The slender stem is usually light green.

Starflower leaves vary considerably in size, from 1½ inches to about 4 inches in length.

- Starflower leaves are lance-shaped, tapering to a tip.
- The leaves are arranged in a single whorl with 5 to 9 leaves (most commonly 7) near the top of the stem.
- The leaf edges are smooth, with no or very fine teeth.
- Leaf venation is pinnate, meaning that there is one main vein running from the base to the tip and secondary veins branching off at intervals.

The pattern of the veins is a key to distinguishing the foliage of Starflower from that of Indian Cucumber-root, another low-growing wildflower which shares a similar habitat.

- The dangling, yellowish flowers of Indian Cucumber-root are very different from Starflower flowers; and Indian Cucumber-root usually appears as a two-storied plant, with two whorls of leaves.
- Some Indian Cucumber-root plants, however, are one-storied and can be confused with Starflower when flowers are not present. The vein arrangement is the key to distinguishing the foliage of the two plants. Indian Cucumber-root's leaves have parallel venation, meaning that the curving veins run parallel from the leaf base to the tip.

Starflower produces one or two snow-white flowers at the top of its slender stalk, just above the whorl of leaves.

- Each flower is about ½ to ¾ inch wide and consists of five to nine petals (most commonly, seven) that form a star-like shape.
- Each flower has 5 to 9 stamens, tipped with yellow on the anthers.
- Each flower has 5 to 9 narrow, pointed, light green sepals, which appear underneath the petals and contribute to the flower's star-like appearance.

Starflower is a late-spring blooming wildflower. In the Adirondack Mountains, Starflower begins blooming in late May and can be seen in bloom to about mid-June. A tally of flowering dates for the upland Adirondack areas compiled by Michael Kudish, based on data collected from the early seventies to the early nineties, lists the plant as in flower 5 June through 12 June, with the median date as 9 June. Starflower may be in flower as late as 30 June at higher elevations.

The flowers are followed by fruit, which consists of a small, five-celled capsule which changes from green to brown and eventually splits open to release the tiny seeds. Seeds need a cold treatment to germinate.
Wildflowers of the Adirondacks: Starflowers can be found growing in hardwood forests, mixed woods forests, and wetland habitats, under both northern hardwoods and conifers. Starflower growing under hardwood trees on the Heaven Hill Trails (7 June 2017).

**Uses of Starflower**

Starflower has virtually no edible uses and very limited medicinal uses. It was not widely used for medicinal purposes by native American groups. However, several groups are said to have used it as a treatment for ailments of the eye.

**Wildlife Value of Starflower**

Starflower has limited value to wildlife. The **Eastern Chipmunk** reportedly consumes some of the seeds or capsules, but this does not constitute a significant portion of its diet. Bees and flies feed on the pollen.

**Distribution of Starflower**

Starflower is one of the most common spring wildflowers in eastern North America and is widely distributed on the North American continent. It occurs in all provinces in the southern half of Canada and all states in the northeastern US, south to Georgia and Tennessee, and in the west coast states south to California. Starflower is listed as Endangered in Georgia and Kentucky, and Threatened in Illinois and Tennessee.

Starflower has been documented in most New York State counties in the eastern two-thirds of the state. Starflower can be found in all counties within the Adirondack Park Blue Line except Warren and Saratoga.

**Habitat of Starflower**

Starflowers are shade-tolerant, with a preference for light shade or dappled sunlight. The plant prefers moist soil, but has been seen growing on well-drained to dry sites. This plant can tolerate acid soils. It grows under both northern hardwoods and conifers. Starflowers will establish themselves in successional old fields that are adjacent to established colonies in old woods.

In terms of habitat, Starflower is relatively flexible, growing in **hardwood forests**, **mixed wood forests**, and **wetland habitats**, in all elevation zones up to (but not including) alpine. This plant is said to be smaller than usual when growing on mountain tops.

In the Adirondack Mountains, Starflower is found in a number of ecological communities:
- **Spruce-Northern Hardwood Forest**
- **Spruce-Fir Swamp**
- **Ice Cave Talus Community**
- **Northern White Cedar Swamp**
- **Beech-Maple Mesic Forest**
- **Hemlock-Northern Hardwood Forest**
- **Red Maple-Tamarack Peat Swamp**
- **Pine-Northern Hardwood Forest**

For instance, the **spruce-northern hardwood forest** ecological community is a **mixed forest** often found on mid-elevation slopes or on the margins of swamps.
In this community, you can find Starflowers growing near Eastern Hemlock, Sugar Maple, Red Maple, American Beech, and Yellow Birch.

Growing underneath the canopy trees are Striped Maples, the saplings of canopy trees, and shrubs such as Witch Hazel and Hobblebush.

Characteristic ground-layer plants include Canada Mayflower, Wild Sasaparilla, Partridgeberry, Common Wood Sorrel, Indian Cucumber-root, Foamflower, Purple Trillium, and Pincushion Moss. Hay-scented Ferns and New York Ferns may flourish in canopy gaps.

Characteristic birds to look and listen for include the Blue-headed Vireo, Black-throated Green Warbler, and Blackburnian Warbler.

Starflowers can be seen on many of the trails covered here, including the Boreal Life Trail and Barnum Brook Trail at the Paul Smith's College VIC, the Peninsula Nature Trails, and several of the Heaven Hill Trails.

References


Anne McGrath. Wildflowers of the Adirondacks (EarthWords, 2000), p. 11, Plate 5.


**Wildflowers of the Adirondack Park**
<table>
<thead>
<tr>
<th>Habitats</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Adirondack Wetlands</td>
<td>Mixed Wood Forest</td>
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<tr>
<td></td>
<td>Northern Hardwood Forest</td>
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<tr>
<td></td>
<td>Conifer Forest</td>
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<td>Forest Succession</td>
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<td>• Paul Smith's College VIC Trails</td>
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Forest Succession

PLANTS

- Trees
- Shrubs
- Wildflowers
- Moss
- Ferns

WILDLIFE

- Birds
- Mammals
- Butterflies and Moths
- Amphibians and Reptiles

Fungi

The Paul Smiths VIC contains every habitat found in the Adirondacks (except alpine vegetation), providing unparalleled opportunities to observe native wildflowers and flowering shrubs. *Partial list of plants observed in spring and summer on selected trails **Non-native. Explore the VIC. Home About Trail Map Events Calendar. Wildflowers of the Adirondacks. Submitted by eea on Thu, 2020-01-30 4:40 PM. Stunning. That was my impression on my first visit to the Adirondacks in summer 2009. I had recently spent considerable time in other beautiful areas but nothing compared to the majesty of the Adirondacks. It was a new world to me. The image of sky, water, and forests, the smell of the lake on that sunny day – stays with me. I was invited by Professor Don Leopold to teach a botany course at the Cranberry Lake Biological Station that summer. I jumped at the opportunity because I taught at other field stations and alway... He is the coauthor of Wildflowers of the Adirondacks. Tags: Adirondack park. Flower Photography Train Station My Flower Wildflowers York Wild Flowers. #ADK #Adirondacks #Lupin - Backlit Lupin near the train station in Thendara, New York. Garden Theme Parking Lot Wildflowers White Flowers Bloom Tropical England Herbs Tattoo. Adirondack Wildflowers | Bunchberry (Cornus canadensis). Bunchberry (Cornus canadensis) is a common Adirondack wildflower which produces white flowers in early summer at the Paul Smiths Visitor Center and throughout the Adirondack Mountains. Adirondack wildflowers in the summertime. The official site of Adirondack Weddings Magazine. Woodland Flowers Beautiful Paintings I Am Happy Crochet Flowers Wild Flowers Beautiful Flowers Kids Rugs Artist Explore. ~ Lynn Benevento. Buy Wildflowers of the Adirondacks on Amazon.com ✓ FREE SHIPPING on qualified orders. Wildflowers of the Adirondacks Paperback – February 11, 2020. by Donald J. Leopold (Author), Lytton John Musselman (Author). See all 2 formats and editions Hide other formats and editions. Where to spot wildflowers in the Adirondacks. A reminder that it is currently mud season in the Adirondacks, and there is still snow at higher elevations. The New York State Department of Environmental Conservation (DEC) is asking hikers to stay below 2,500 feet to avoid damaging trails and sensitive vegetation during this time. Coon Mountain. The Adirondack Land Trust's Coon Mountain Preserve is the destination when it comes to Spring wildflowers. Botanist Jerry Jenkins describes this area as "more diverse and richer in rare and uncommon species than any other community in the in the Adirondack Park." Coon Mountain Official Brochure. Paul Smith's VIC. The Paul Smith's Visitor Interpretive Center trails are open year round.