

FPn82 Northern Rich Tamarack Swamp (Western Basin) Pollinator Resources

Tamarack-dominated swamps on moderately deep to deep peat in basins on glacial till or outwash deposits, or occasionally along the margins of large peatlands on glacial lake plains or on floating mats along lake or river shores.

Examples of insect pollinators (and their associated host plants in parentheses) that use FPn82 include:

Bees:

Andrena melanochroa (Rosaceae)

Osmia virga (Vaccinium)

Andrena clarkella (Salix)

Andrena sigmundi (Salix)

Butterflies:

Tharsalea hyllus (Rumex)

Polygonia progne (Ribes)

Callophrys augustinus (*Kalmia polifolia*)

Moths:

Macaria oweni (*Larix laricina*)

Antheraea polyphemus (*Betula pumila*)

Acleris oxycoccana (*Chamaedaphne calyculata*)



Andrena sigmundi uses *Salix* (willow) species as a host plant. Photo: Michael Veit

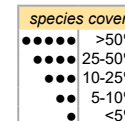


Callophrys augustinus (brown elfin) uses *Kalmia polifolia* (bog laurel) as a host plant. Photo: Kyle Johnson

FPn82 Northern Rich Tamarack Swamp (Western Basin)

Pollinator Resources Table

FPn82 Class Factsheet. Based on 52 plots. November 2024



| Forbs | species frequency in NPC (%) | species cover (when present) | Compatibility | Longevity | Clonality | Principal Pollen Vector | Pollinator requirements | Pollination Index |
|---|------------------------------|------------------------------|---------------|-----------|-----------|-------------------------|--|-------------------|
| Three-leaved false Solomon's seal (<i>Smilacina trifolia</i>) | 87 | ●● | UNK | Perennial | Present | insects | Early spring insect | 4 |
| Dwarf raspberry (<i>Rubus pubescens</i>) | 81 | ●● | SC | Perennial | Present | insects | Generalist | 2 |
| Tufted loosestrife (<i>Lysimachia thyrsoiflora</i>) | 75 | ● | SI | Perennial | Present | insects | Generalist | 4 |
| Marsh cinquefoil (<i>Potentilla palustris</i>) | 73 | ● | SC | Perennial | Present | insects | Generalist | 2 |
| Common marsh marigold (<i>Caltha palustris</i>) | 62 | ● | SI | Perennial | Present | insects | Early spring insect | 5 |
| Canada mayflower (<i>Maianthemum canadense</i>) | 62 | ● | SI | Perennial | Present | insects | Early spring insect | 5 |
| Crested fern (<i>Dryopteris cristata</i>) | 60 | ● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Northern marsh fern (<i>Thelypteris palustris</i>) | 60 | ● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Starflower (<i>Trientalis borealis</i>) | 58 | ● | SI/sc | Perennial | Present | insects | Generalist | 3 |
| Great water dock (<i>Rumex orbiculatus</i>) | 56 | ● | UNK | Perennial | UNK | wind | Generalist | 0 |
| Bulb-bearing water hemlock (<i>Cicuta bulbifera</i>) | 50 | ● | UNK | Perennial | Absent | insects | Generalist | 4 |
| Bunchberry (<i>Cornus canadensis</i>) | 50 | ● | SI | Perennial | Present | insects | Generalist | 4 |
| Marsh bellflower (<i>Campanula aparinoides</i>) | 46 | ● | UNK | Perennial | Present | insects | Generalist | 3 |
| Water horsetail (<i>Equisetum fluviatile</i>) | 44 | ●● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Red-stemmed aster (<i>Aster puniceus</i>) | 44 | ● | SI | Perennial | Present | insects | Generalist | 4 |
| Wild calla (<i>Calla palustris</i>) | 42 | ● | A | Perennial | Present | insects | Somewhat specific insect | 3 |
| One-sided pyrola (<i>Pyrola secunda</i>) | 42 | ● | UNK | Perennial | Present | insects | Somewhat specific insect, Facultative buzz pollination | 4 |
| Northern bugleweed (<i>Lycopus uniflorus</i>) | 40 | ● | SC | Perennial | Weakly | insects | Generalist | 2 |
| Big-leaf white violet or Northern white violet* | 37 | ● | Varies | Perennial | Present | insects | Varies | Varies |
| Stemless lady's slipper (<i>Cypripedium acaule</i>) | 37 | ● | SC | Perennial | Weakly | insects | Very specialized insect | 4 |
| Long-leaved chickweed (<i>Stellaria longifolia</i>) | 37 | ● | SC | Perennial | Present | insects | Generalist | 2 |
| Buckbean (<i>Menyanthes trifoliata</i>) | 35 | ●● | H | Perennial | Present | insects | Early spring insect | 5 |
| Linear-leaved, Marsh, or Downy willow-herb** | 33 | ● | Varies | Perennial | Present | insects | Generalist | 3 |
| Spinulose shield fern (<i>Dryopteris carthusiana</i>) | 33 | ● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Sweet-scented bedstraw (<i>Galium triflorum</i>) | 33 | ● | UNK | Perennial | Present | insects | Generalist | 3 |
| Twinflower (<i>Linnaea borealis</i>) | 33 | ● | SC | Perennial | Present | insects | Generalist | 2 |
| Arrow-leaved tearthumb (<i>Polygonum sagittatum</i>) | 31 | ● | UNK | Annual | Absent | insects | Generalist | 5 |
| Goldthread (<i>Coptis trifolia</i>) | 29 | ● | UNK | Perennial | Present | insects | Early spring insect | 4 |
| Pink shinleaf (<i>Pyrola asarifolia</i>) | 29 | ● | UNK | Perennial | Present | insects | Buzz pollination | 5 |
| Meadow horsetail (<i>Equisetum pratense</i>) | 29 | ● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Cinnamon fern (<i>Osmunda cinnamomea</i>) | 27 | ●● | SC | Perennial | Present | wind, water | Generalist | 0 |
| Marsh skullcap (<i>Scutellaria galericulata</i>) | 27 | ● | SC | Perennial | Present | insects | Somewhat specific insect | 3 |
| Northern blue flag (<i>Iris versicolor</i>) | 25 | ● | SC and SI | Perennial | Present | insects | Somewhat specific insect | 4 |
| Grasses and Sedges | | | | | | | | |
| Soft-leaved sedge (<i>Carex disperma</i>) | 62 | ●● | UNK | Perennial | Present | wind | Generalist | 0 |
| Bluejoint (<i>Calamagrostis canadensis</i>) | 60 | ●● | A | Perennial | Present | wind | Generalist | 0 |
| Bristle-stalked sedge (<i>Carex leptalea</i>) | 50 | ●● | UNK | Perennial | Present | wind | Generalist | 0 |

| | | | | | | | | |
|--|-----|------|------|-----------|---------|---------|--|---|
| Lake sedge (<i>Carex lacustris</i>) | 48 | •• | UNK | Perennial | Present | wind | Generalist | 0 |
| Poor sedge (<i>Carex paupercula</i>) | 46 | • | UNK | Perennial | Present | wind | Generalist | 0 |
| Interior sedge (<i>Carex interior</i>) | 44 | • | UNK | Perennial | Present | wind | Generalist | 0 |
| Three-fruited bog sedge (<i>Carex trisperma</i>) | 38 | •• | UNK | Perennial | Present | wind | Generalist | 0 |
| Creeping sedge (<i>Carex chordorrhiza</i>) | 31 | ••• | UNK | Perennial | Present | wind | Generalist | 0 |
| Low Shrubs | | | | | | | | |
| Labrador tea (<i>Ledum groenlandicum</i>) | 92 | ••• | SC | Perennial | Present | insects | Early spring insect | 3 |
| Small cranberry (<i>Vaccinium oxycoccos</i>) | 73 | • | ± SC | Perennial | Present | insects | Somewhat specific insect, Facultative buzz pollination | 3 |
| Leatherleaf (<i>Chamaedaphne calyculata</i>) | 63 | ••• | SC | Perennial | Present | insects | Early spring insect, Somewhat specific insect | 3 |
| Bog rosemary (<i>Andromeda glaucophylla</i>) | 60 | • | SC | Perennial | Present | insects | Somewhat specific insect | 3 |
| Lowbush blueberry (<i>Vaccinium angustifolium</i>) | 40 | • | ± SC | Perennial | Present | insects | Somewhat specific insect, Facultative buzz pollination | 3 |
| Creeping snowberry (<i>Gaultheria hispidula</i>) | 33 | • | UNK | Perennial | Present | insects | Generalist | 3 |
| Bog laurel (<i>Kalmia polifolia</i>) | 23 | • | SC | Perennial | Present | insects | Early spring insect, Somewhat specific insect | 3 |
| Tall Shrubs | | | | | | | | |
| Bog birch (<i>Betula pumila</i>) | 90 | ••• | Di | Perennial | Present | wind | Generalist | 0 |
| Speckled alder (<i>Alnus incana</i>) | 69 | ••• | Di | Perennial | Present | wind | Generalist | 0 |
| Red-osier dogwood (<i>Cornus sericea</i>) | 58 | • | SI | Perennial | Present | insects | Generalist | 4 |
| Bog willow (<i>Salix pedicellaris</i>) | 50 | • | D | Perennial | Present | insects | Early spring insect | 5 |
| Dwarf alder (<i>Rhamnus alnifolia</i>) | 40 | • | UNK | Perennial | Absent | insects | Generalist | 4 |
| Mountain fly honeysuckle (<i>Lonicera villosa</i>) | 37 | • | SC | Perennial | Weakly | insects | Somewhat specific insect | 3 |
| Pussy willow (<i>Salix discolor</i>) | 25 | • | D | Perennial | Present | insects | Early spring insect | 5 |
| Swamp gooseberry (<i>Ribes hirtellum</i>) | 25 | • | SI | Perennial | Present | insects | Generalist | 4 |
| Tree Canopy | | | | | | | | |
| Tamarack | 100 | •••• | SI | Perennial | Absent | wind | Generalist | 0 |
| Black spruce | 52 | ••• | UNK | Perennial | Absent | wind | Generalist | 0 |
| White cedar | 31 | ••• | UNK | Perennial | Absent | wind | Generalist | 0 |
| Paper birch | 19 | • | Di | Perennial | Present | wind | Generalist | 0 |
| Red maple | 10 | • | D | Perennial | Absent | insects | Early spring insect | 6 |
| Balsam fir | 10 | • | UNK | Perennial | Absent | wind | Generalist | 0 |
| Black ash | 10 | • | D | Perennial | Absent | wind | Generalist | 0 |
| Tree Understory | | | | | | | | |
| Tamarack | 71 | •• | SI | Perennial | Absent | wind | Generalist | 0 |
| Black spruce | 69 | •• | UNK | Perennial | Absent | wind | Generalist | 0 |
| White cedar | 40 | •• | UNK | Perennial | Absent | wind | Generalist | 0 |
| Paper birch | 44 | • | Di | Perennial | Present | wind | Generalist | 0 |
| Red maple | 48 | • | D | Perennial | Absent | insects | Early spring insect | 6 |
| Balsam fir | 38 | • | UNK | Perennial | Absent | wind | Generalist | 0 |
| Black ash | 25 | • | D | Perennial | Absent | wind | Generalist | 0 |

*Big-leaf white or Northern white violet (*Viola blanda* or *V. macloskeyi*); Linear-leaved, Marsh, or Downy willow-herb (*Epilobium leptophyllum*, *E. palustre*, or *E. strictum*).