

APn81 Northern Poor Conifer Swamp Pollinator Resources

Conifer-dominated peatlands with sparse canopy of stunted trees. Understory is depauperate and dominated by ericaceous shrubs, fine-leaved graminoids, and low Sphagnum hummocks. Minerotrophic plant species are present.

Examples of insect pollinators (and their associated host plants in parentheses) that use APn81 include:

Bees:

Andrena bradleyi (*Vaccinium*)

Andrena clarkella (*Salix*)

Osmia virga (*Vaccinium*)

Butterflies:

Boloria chariclea (*Salix*)

Boloria freija (*Kalmia polifolia*)

Tharsalea epixanthe (*Vaccinium*)

Plebejus idas (*Kalmia polifolia*)

Moths:

Archiearis infans (*Betula papyrifera*)

Phyllonorycter ledella (*Rhododendron groenlandicum*)

Zeiraphera canadensis (*Picea mariana*)



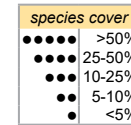
Andrena bradleyi uses *Vaccinium* (blueberry, cranberry) species as a host plant. Photo: Max McCarthy



Boloria freija (Freija fritillary) uses *Kalmia polifolia* (bog laurel) as a host plant. Photo: Kyle Johnson

APn81 Northern Poor Conifer Swamp Pollinator Resources Table

APn81 Class Factsheet. Based on 60 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>)	85	●●●	UNK	Perennial	Present	insects	Early spring insect	4
Stemless lady's slipper (<i>Cypripedium acaule</i>)	40	●	SC	Perennial	Weakly	insects	Very specialized insect	4
Indian pipe (<i>Monotropa uniflora</i>)	35	●	SC	Perennial	Absent	insects	Somewhat specific insect	4
Pitcher plant (<i>Sarracenia purpurea</i>)	32	●	SC	Perennial	Present	insects	Generalist	2
Round-leaved sundew (<i>Drosera rotundifolia</i>)	20	●	SC	Perennial	Absent	insects	Generalist	3
Spinulose shield fern (<i>Dryopteris carthusiana</i>)	18	●	SC	Perennial	Present	wind, water	Generalist	0
Buckbean (<i>Menyanthes trifoliata</i>)	17	●●	H	Perennial	Present	insects	Early spring insect	5
Northern blue flag (<i>Iris versicolor</i>)	13	●	SC and SI	Perennial	Present	insects	Somewhat specific insect	4
Tufted loosestrife (<i>Lysimachia thysiflora</i>)	13	●	SI	Perennial	Present	insects	Generalist	4
Bunchberry (<i>Cornus canadensis</i>)	10	●	SI	Perennial	Present	insects	Generalist	4
Bristly clubmoss (<i>Lycopodium annotinum</i>)	10	●	SC	Perennial	Present	wind, water	Generalist	0
Marsh cinquefoil (<i>Potentilla palustris</i>)	10	●	SC	Perennial	Present	insects	Generalist	2
Grasses and Sedges								
Three-fruited bog sedge (<i>Carex trisperma</i>)	83	●●●	UNK	Perennial	Present	wind	Generalist	0
Poor sedge (<i>Carex paupercula</i>)	37	●●	UNK	Perennial	Present	wind	Generalist	0
Tussock cottongrass (<i>Eriophorum vaginatum</i>)	37	●	UNK	Perennial	Present	wind	Generalist	0
Creeping sedge (<i>Carex chordorrhiza</i>)	33	●●●	UNK	Perennial	Present	wind	Generalist	0
Bluejoint (<i>Calamagrostis canadensis</i>)	25	●	A	Perennial	Present	wind	Generalist	0
Tawny cottongrass (<i>Eriophorum virginicum</i>)	22	●	UNK	Perennial	Present	wind	Generalist	0
Lake sedge (<i>Carex lacustris</i>)	17	●●●	UNK	Perennial	Present	wind	Generalist	0
Bog wiregrass sedge (<i>Carex oligosperma</i>)	15	●●●	UNK	Perennial	Present	wind	Generalist	0
Few-fruited sedge (<i>Carex pauciflora</i>)	13	●	UNK	Perennial	Present	wind	Generalist	0
Soft-leaved sedge (<i>Carex disperma</i>)	10	●	UNK	Perennial	Present	wind	Generalist	0
Low Shrubs								
Labrador tea (<i>Ledum groenlandicum</i>)	93	●●●●	SC	Perennial	Present	insects	Early spring insect	3
Leatherleaf (<i>Chamaedaphne calyculata</i>)	83	●●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Small cranberry (<i>Vaccinium oxycoccos</i>)	80	●	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Bog laurel (<i>Kalmia polifolia</i>)	60	●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Bog rosemary (<i>Andromeda glaucophylla</i>)	53	●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>)	48	●●	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Creeping snowberry (<i>Gaultheria hispidula</i>)	38	●●	UNK	Perennial	Present	insects	Generalist	3
Lowbush blueberry (<i>Vaccinium angustifolium</i>)	38	●	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Lingonberry (<i>Vaccinium vitis-idaea</i>)	12	●●●	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Tall Shrubs								
Bog birch (<i>Betula pumila</i>)	47	●●	Di	Perennial	Present	wind	Generalist	0
Speckled alder (<i>Alnus incana</i>)	27	●●	Di	Perennial	Present	wind	Generalist	0
Bog willow (<i>Salix pedicellaris</i>)	13	●	D	Perennial	Present	insects	Early spring insect	5

Balsam willow (<i>Salix pyrifolia</i>)	10	•	D	Perennial	Present	insects	Early spring insect	5
Tree Canopy								
Black spruce	93	••••	UNK	Perennial	Absent	wind	Generalist	0
Tamarack	73	•••	SI	Perennial	Absent	wind	Generalist	0
Paper birch	15	•	Di	Perennial	Present	wind	Generalist	0
White pine	8	•	SI	Perennial	Absent	wind	Generalist	0
Northern red oak	-	-	SI	Perennial	Present	wind	Generalist	0
Red maple	-	-	D	Perennial	Absent	insects	Early spring insect	6
Balsam fir	-	-	UNK	Perennial	Absent	wind	Generalist	0
Tree Understory								
Black spruce	92	•••	UNK	Perennial	Absent	wind	Generalist	0
Tamarack	65	•••	SI	Perennial	Absent	wind	Generalist	0
Paper birch	32	•	Di	Perennial	Present	wind	Generalist	0
White pine	22	•	SI	Perennial	Absent	wind	Generalist	0
Northern red oak	27	•	SI	Perennial	Present	wind	Generalist	0
Red maple	23	•	D	Perennial	Absent	insects	Early spring insect	6
Balsam fir	18	•	UNK	Perennial	Absent	wind	Generalist	0