# FDn33 Northern Dry-Mesic Mixed Woodland Pollinator Resources

Dry-mesic conifer, conifer-hardwood, or hardwood woodlands dominated by red pine, white pine, jack pine, black spruce, quaking aspen, or paper birch. Most common on sandy soils but also present on shallow, loamy soils over bedrock. Crown and surface fires were common historically.

## Examples of insect pollinators (and their associated host plants in parentheses) that use FDn33 include:

#### Bees:

Andrena melanochroa (Rosaceae) Andrena frigida (Salix) Andrena persimulata (Cornus [Swida])

#### **Butterflies:**

Satyrium titus (Prunus)
Phyciodes tharos (Eurybia macrophylla)
Oeneis macounii (Oryzopsis asperifolia)
Erynnis icelus (Populus tremuloides)

#### Moths:

Amphipyra pyramidoides (Corylus cornuta)
Cerastis tenebrifera (Anemone quinquefolia)
Phyllonorycter apparella (Populus tremuloides)



Cerastis tenebrifera (reddish speckled dart) uses Anemone quinquefolia (wood anemone) as a host plant. Photo: Kyle Johnson



Andrena melanochroa (rose miner bee) uses species in the Rosaceae (rose) family as a host plant.

Photo: Max McCarthy



### FDn33 Northern Dry-Mesic Mixed Woodland

**Pollinator Resources Table** 

FDn33 Class Factsheet. Based on 124 plots. November, 2024.





TDII33 Class Factsfieet. Dased Off 124 plot	.s. Novembe	, 2024.					• <5%	
Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Canada mayflower (Maianthemum canadense)	98	•••	SI	Perennial	Present	insects	Early spring insect	5
Wild sarsaparilla (Aralia nudicaulis)	91	••	D	Perennial	Present	insects	Generalist	4
Bracken (Pteridium aquilinum)	84	•••	SC	Perennial	Present	wind, water	Generalist	0
Large-leaved aster (Aster macrophyllus)	84	•••	Α	Perennial	Present	insects	Generalist	2
Common strawberry (Fragaria virginiana)	81	•	SC	Perennial	Present	insects	Early spring insect	3
Wood anemone (Anemone quinquefolia)	74	•	UNK	Perennial	Present	insects	Early spring insect	4
Sweet-scented bedstraw (Galium triflorum)	70	•	UNK	Perennial	Present	insects	Generalist	3
Dwarf raspberry (Rubus pubescens)	68	••	SC	Perennial	Present	insects	Generalist	2
Bunchberry (Cornus canadensis)	66	••	SI	Perennial	Present	insects	Generalist	4
Starflower (Trientalis borealis)	65	•	SI/sc	Perennial	Present	insects	Generalist	3
Bluebead lily (Clintonia borealis)	65	••	SI	Perennial	Present	insects	Generalist	4
Rose twistedstalk (Streptopus roseus)	63	•	UNK	Perennial	Present	insects	Early spring insect	4
Spreading dogbane (Apocynum androsaemifolium)	50	•	SI	Perennial	Present	insects	Generalist	4
Pale vetchling (Lathyrus ochroleucus)	44	•	SI	Perennial	Present	insects	Somewhat specific insect	5
Lindley's aster (Aster ciliolatus)	43	•	UNK	Perennial	Present	insects	Generalist	3
Veiny pea (Lathyrus venosus)	42	•	SI	Perennial	Present	insects	Somewhat specific insect	5
Twinflower (Linnaea borealis)	42	••	SC	Perennial	Present	insects	Generalist	2
One-sided pyrola (Pyrola secunda)	28	•	UNK	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	4
Red baneberry (Actaea rubra)	28	•	SC	Perennial	Present	insects	Early spring insect	3
Columbine (Aquilegia canadensis)	28	•	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Pale bellwort (Uvularia sessilifolia)	27	•	SI	Perennial	Present	insects	Early spring insect	5
Early meadow-rue (Thalictrum dioicum)	27	•	SI	Perennial	Present	wind	Generalist	0
Groundpine ( <i>Lycopodium dendroideum</i> or <i>L. hickeyi</i> )	24	•	SC	Perennial	Present	wind, water	Generalist	0
Round-leaved pyrola (Pyrola rotundifolia)	23	•	UNK	Perennial	Present	insects	Buzz pollination	5
Northern bedstraw (Galium boreale)	23	••	SI	Perennial	Present	insects	Generalist	4
Hairy Solomon's seal ( <i>Polygonatum</i> pubescens)	23	•	UNK	Perennial	Present	insects	Somewhat specific insect	4
Maryland black snakeroot (Sanicula marilandica)	22	•	UNK	Perennial	Absent	insects	Generalist	4
Cow wheat (Melampyrum lineare)	21	•	SC	Annual	Absent	insects	Somewhat specific insect	5
American vetch (Vicia americana)	18	•	SI	Perennial	Present	insects	Somewhat specific insect	5
Large-flowered bellwort (Uvularia grandiflora)	17	•	SI	Perennial	Present	insects	Early spring insect	5
Spinulose shield fern or Glandular wood fern*	17	•	SC	Perennial	Present	wind, water	Generalist	0
Gaywings (Polygala paucifolia)	15	•	CH and CL	Annual or perennial	Absent	insects	Somewhat specific insect	6
Grasses and Sedges								
Mountain rice grass (Oryzopsis asperifolia)	77	•••	UNK	Perennial	Absent	wind	Generalist	0
Pennsylvania sedge (Carex pensylvanica)	29	••	SC	Perennial	Present	wind	Generalist	0
False melic grass (Schizachne purpurascens)	23	••	UNK	Perennial	Absent	wind	Generalist	0

Low Shrubs								
Lowbush blueberry (Vaccinium angustifolium)	81	••	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Red raspberry (Rubus idaeus)	52	•	SC	Perennial	Present	insects	Generalist	2
Wintergreen (Gaultheria procumbens)	40	•	SC	Perennial	Present	insects	Somewhat specific insect	3
Velvet-leaved blueberry (Vaccinium myrtilloides)	24	•	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Shrubs								
Beaked hazelnut (Corylus cornuta)	95	••••	Di	Perennial	Present	wind	Generalist	0
Juneberries (Amelanchier spp.)	86	••	Varies	Perennial	Present	insects	Early spring insect	Varies
Bush honeysuckle (Diervilla lonicera)	80	••	SC	Perennial	Present	insects	Somewhat specific insect	3
Fly honeysuckle (Lonicera canadensis)	60	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Chokecherry (Prunus virginiana)	58	•	SI	Perennial	Present	insects	Early spring insect	5
Prickly or Smooth wild rose (Rosa acicularis or R. blanda)	52	•	SC	Perennial	Present	insects	Generalist	2
Round-leaved dogwood (Cornus rugosa)	34	••	UNK	Perennial	Present	insects	Generalist	3
Mountain maple (Acer spicatum)	31	•••	SI	Perennial	Absent	insects	Early spring insect	6
Downy arrowwood (Viburnum rafinesquianum)	28	•	UNK	Perennial	Present	insects	Generalist	3
Prairie willow (Salix humilis)	22	•	D	Perennial	Present	insects	Early spring insect	5
Hairy honeysuckle (Lonicera hirsuta)	21	•	SC	Perennial	Weakly	insects	Somewhat specific insect	3
Green alder (Alnus viridis)	18	••	Di	Perennial	Present	wind	Generalist	0
Snowberry or Wolfberry ( <i>Symphoricarpos albus</i> or <i>S. occidentalis</i> )	13	••	SC	Perennial	Present	insects	Generalist	2
Тгее Сапору								
Red pine	49	••••	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	47	•••	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	35	•••	D	Perennial	Present	wind	Generalist	0
White pine	31	••••	SI	Perennial	Absent	wind	Generalist	0
Red maple	27	••	D	Perennial	Absent	insects	Early spring insect	6
Balsam fir	20	•••	UNK	Perennial	Absent	wind	Generalist	0
Jack Pine	18	•••	UNK	Perennial	Absent	wind	Generalist	0
Big-toothed aspen	15	•••	D	Perennial	Present	wind	Generalist	0
White spruce	12	•	UNK	Perennial	Absent	wind	Generalist	0
Northern red oak	11	•	SI	Perennial	Present	wind	Generalist	0
Black spruce	6	••••	UNK	Perennial	Absent	wind	Generalist	0
Tree Subcanopy								
Red pine	27	•••	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	65	•••	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	30	•••	D	Perennial	Present	wind	Generalist	0
White pine	19	••	SI	Perennial	Absent	wind	Generalist	0
Red maple	51	•••	D	Perennial	Absent	insects	Early spring insect	6
Balsam fir	38	•••	UNK	Perennial	Absent	wind	Generalist	0
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Big-toothed aspen	15	•••	D	Perennial	Present	wind	Generalist	0
White spruce	15	••	UNK	Perennial	Absent	wind	Generalist	0
Northern red oak	31	••	SI	Perennial	Present	wind	Generalist	0
Black spruce	7	••	UNK	Perennial	Absent	wind	Generalist	0
Tree Shrub Layer								
Red pine	6	•	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	32	•	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	50	•	D	Perennial	Present	wind	Generalist	0
White pine	39	•	SI	Perennial	Absent	wind	Generalist	0
Red maple	69	••	D	Perennial	Absent	insects	Early spring insect	6
Balsam fir	65	•	UNK	Perennial	Absent	wind	Generalist	0
Jack Pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
Big-toothed aspen	9	•	D	Perennial	Present	wind	Generalist	0
White spruce	22	•	UNK	Perennial	Absent	wind	Generalist	0
Northern red oak	44	•	SI	Perennial	Present	wind	Generalist	0
Black spruce	3	•	UNK	Perennial	Absent	wind	Generalist	0

<sup>\*</sup>Spinulose shield fern or Glandular wood fern (*Dryopteris carthusiana* or *D. intermedia*).