

FDc24 Central Rich Dry Pine Woodland Pollinator Resources

Dry-mesic pine or hardwood woodlands on sandy, level to gently undulating outwash deposits or occasionally on sandy inclusions in rolling to hummocky stagnation moraines. Crown fires and mild surface fires were common historically.

Examples of insect pollinators (and their associated host plants) that use FDc24 include:

Bees:

Osmia virga (*Vaccinium*)

Andrena frigida (*Salix*)

Andrena persimulata (*Cornus* [*Swida*])

Butterflies:

Oeneis macounii (*Oryzopsis asperifolia*)

Callophrys eryphon (*Pinus baskiana*)

Erynnis juvenalis (*Quercus*)

Moths:

Eulithis explanata (*Vaccinium angustifolium*)

Mesoleuca ruficollata (*Rubus idaeus* var. *strigosus*)

Paonias excaecata (*Corylus americana*)



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

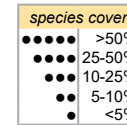


Erynnis juvenalis (Juvenal's duskywing) uses *Quercus* (oak) species as a host plant. Photo: Bob Dunlap

FDc24 Central Rich Dry Pine Woodland

Pollinator Resources Table

FDc24 Class Factsheet. Based on 45 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Canada mayflower (<i>Maianthemum canadense</i>)	96	●●	SI	Perennial	Present	insects	Early spring insect	5
Common strawberry (<i>Fragaria virginiana</i>)	87	●	SC	Perennial	Present	insects	Early spring insect	3
Northern bedstraw (<i>Galium boreale</i>)	87	●	SI	Perennial	Present	insects	Generalist	4
Early meadow-rue (<i>Thalictrum dioicum</i>)	73	●	SI	Perennial	Present	wind	Generalist	0
Wood anemone (<i>Anemone quinquefolia</i>)	69	●	UNK	Perennial	Present	insects	Early spring insect	4
Wild sarsaparilla (<i>Aralia nudicaulis</i>)	69	●●	D	Perennial	Present	insects	Generalist	4
Bracken (<i>Pteridium aquilinum</i>)	64	●●●	SC	Perennial	Present	wind, water	Generalist	0
Large-leaved aster (<i>Aster macrophyllus</i>)	62	●●	A	Perennial	Present	insects	Generalist	2
Sweet-scented bedstraw (<i>Galium triflorum</i>)	56	●	UNK	Perennial	Present	insects	Generalist	3
Pale vetchling (<i>Lathyrus ochroleucus</i>)	56	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Spreading dogbane (<i>Apocynum androsaemifolium</i>)	56	●	SI	Perennial	Present	insects	Generalist	4
One-sided pyrola (<i>Pyrola secunda</i>)	53	●	UNK	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	4
Lindley's aster (<i>Aster ciliolatus</i>)	51	●	UNK	Perennial	Present	insects	Generalist	3
Blue giant hyssop (<i>Agastache foeniculum</i>)	42	●	SC	Perennial	Present	insects	Somewhat specific insect	3
American vetch (<i>Vicia americana</i>)	40	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Dwarf raspberry (<i>Rubus pubescens</i>)	40	●	SC	Perennial	Present	insects	Generalist	2
Maryland black snakeroot (<i>Sanicula marilandica</i>)	40	●	UNK	Perennial	Absent	insects	Generalist	4
Pale bellwort (<i>Uvularia sessilifolia</i>)	36	●	SI	Perennial	Present	insects	Early spring insect	5
Twinflower (<i>Linnaea borealis</i>)	31	●●	SC	Perennial	Present	insects	Generalist	2
Veiny pea (<i>Lathyrus venosus</i>)	31	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Starflower (<i>Trientalis borealis</i>)	27	●	SI/sc	Perennial	Present	insects	Generalist	3
Clayton's sweet cicely (<i>Osmorhiza claytonii</i>)	27	●	D	Perennial	Absent	insects	Generalist	5
Columbine (<i>Aquilegia canadensis</i>)	24	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Spinulose shield fern or Glandular wood fern (<i>Dryopteris</i> spp.)*	20	●	SC	Perennial	Present	wind, water	Generalist	0
Round-lobed hepatica (<i>Anemone americana</i>)	18	●	SC	Perennial	Present	insects	Early spring insect	3
Erect, Smooth, or Illinois carrion-flower (<i>Smilax</i> spp.)**	18	●	D	Perennial	Present	insects	Somewhat specific insect	5
Pussytoes (<i>Antennaria</i> spp.)	18	●	A	Perennial	Present	wind	Generalist	0
Round-leaved pyrola (<i>Pyrola rotundifolia</i>)	18	●	UNK	Perennial	Present	insects	Buzz pollination	5
Cow wheat (<i>Melampyrum lineare</i>)	16	●	SC	Annual	Absent	insects	Somewhat specific insect	5
Grasses and Sedges								
Mountain rice grass (<i>Oryzopsis asperifolia</i>)	84	●●●	UNK	Perennial	Absent	wind	Generalist	0
Pennsylvania sedge (<i>Carex pennsylvanica</i>)	71	●●●	SC	Perennial	Present	wind	Generalist	0
False melic grass (<i>Schizachne purpurascens</i>)	36	●●	UNK	Perennial	Absent	wind	Generalist	0
Climbing Plants								
Virginia creeper (<i>Parthenocissus</i> spp.)	33	●	SC	Perennial	Present	insects	Generalist	2
Wild honeysuckle (<i>Lonicera dioica</i>)	20	●	SC	Perennial	Weakly	insects	Somewhat specific insect	3

Low Shrubs								
Lowbush blueberry (<i>Vaccinium angustifolium</i>)	80	••	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative	3
Red raspberry (<i>Rubus idaeus</i>)	69	••	SC	Perennial	Present	insects	Generalist	2
Tall blackberries (<i>Rubus allegheniensis</i> and similar <i>Rubus</i> spp.)	29	••	Varies	Perennial	Present	insects	Generalist	Varies
Wintergreen (<i>Gaultheria procumbens</i>)	24	•	SC	Perennial	Present	insects	Somewhat specific insect	3
Pipsissewa (<i>Chimaphila umbellata</i>)	20	•	SC	Perennial	Present	insects	Somewhat specific insect	3
Shrubs								
Juneberry (<i>Amelanchier</i> spp.)	87	••	Varies	Perennial	Present	insects	Early spring insect	Varies
Poison ivy (<i>Toxicodendron rydbergii</i>)	84	••	D	Perennial	Present	insects	Generalist	4
Prickly or Smooth wild rose (<i>Rosa acicularis</i> or <i>R. blanda</i>)	82	•	SC	Perennial	Present	insects	Generalist	2
Beaked hazelnut (<i>Corylus cornuta</i>)	78	••••	Di	Perennial	Present	wind	Generalist	0
American hazelnut (<i>Corylus americana</i>)	76	•••	Di	Perennial	Present	wind	Generalist	0
Chokecherry (<i>Prunus virginiana</i>)	76	••	SI	Perennial	Present	insects	Early spring insect	5
Bush honeysuckle (<i>Diervilla lonicera</i>)	71	•••	SC	Perennial	Present	insects	Somewhat specific insect	3
Snowberry or Wolfberry (<i>Symphoricarpos albus</i> or <i>S. occidentalis</i>)	71	•	SC	Perennial	Present	insects	Generalist	2
Prairie willow (<i>Salix humilis</i>)	62	•	D	Perennial	Present	insects	Early spring insect	5
Downy arrowwood (<i>Viburnum rafinesquianum</i>)	44	••	UNK	Perennial	Present	insects	Generalist	3
Pin cherry (<i>Prunus pensylvanica</i>)	33	•	SI	Perennial	Present	insects	Early spring insect	5
Gray dogwood (<i>Cornus racemosa</i>)	24	••	UNK	Perennial	Present	insects	Generalist	3
Hawthorn (<i>Crataegus</i> spp.)	18	•	Varies	Perennial	Absent	insects	Early spring insect	Varies
Tree Canopy								
Jack pine	84	••••	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	31	•••	D	Perennial	Present	wind	Generalist	0
Red pine	29	•••	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	27	•••	Di	Perennial	Present	wind	Generalist	0
Bur oak	24	•••	SI	Perennial	Present	wind	Generalist	0
Northern red oak	18	•••	SI	Perennial	Present	wind	Generalist	0
Black cherry	-	-	SI	Perennial	Present	insects	Early spring insect	5
Red maple	-	-	D	Perennial	Absent	insects	Early spring insect	6
Big-toothed aspen	-	-	D	Perennial	Present	wind	Generalist	0
White pine	-	-	SI	Perennial	Absent	wind	Generalist	0
Tree Subcanopy								
Jack pine	11	•••	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	33	••	D	Perennial	Present	wind	Generalist	0
Red pine	11	•	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	20	•	Di	Perennial	Present	wind	Generalist	0
Bur oak	56	••	SI	Perennial	Present	wind	Generalist	0
Northern red oak	49	••	SI	Perennial	Present	wind	Generalist	0
Black cherry	29	•	SI	Perennial	Present	insects	Early spring insect	5
Red maple	20	•	D	Perennial	Absent	insects	Early spring insect	6
Big-toothed aspen	13	•	D	Perennial	Present	wind	Generalist	0

White pine	9	••	SI	Perennial	Absent	wind	Generalist	0
Tree Shrub Layer								
Jack pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	42	•	D	Perennial	Present	wind	Generalist	0
Red pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	16	•	Di	Perennial	Present	wind	Generalist	0
Bur oak	64	•	SI	Perennial	Present	wind	Generalist	0
Northern red oak	71	•	SI	Perennial	Present	wind	Generalist	0
Black cherry	27	•	SI	Perennial	Present	insects	Early spring insect	5
Red maple	29	•	D	Perennial	Absent	insects	Early spring insect	6
Big-toothed aspen	11	•	D	Perennial	Present	wind	Generalist	0
White pine	18	•	SI	Perennial	Absent	wind	Generalist	0

* Spinulose shield fern or Glandular wood fern (*Dryopteris* spp.), **Erect, Smooth, or Illinois carrion-flower (*Smilax ecirrata*, *S. herbacea*, or *S. illinoensis*)