

## **FDc34 Central Dry-Mesic Pine-Hardwood Forest Pollinator Resources**

*Dry-mesic pine, hardwood, or pine-hardwood forests on hummocky glacial moraines, often adjacent to outwash plains. Crown fires and mild surface fires were common historically.*

**Examples of insect pollinators (and their associated host plants in parentheses) that use FDc34 include:**

**Bees:**

*Andrena melanochroa* (Rosaceae)

*Hylaeus sparsus* (Apiaceae)

*Heriades variolosus* (Asteraceae)

**Butterflies:**

*Chlosyne nycteis* (*Eurybia macrophylla*)

*Euphyes dion* (*Carex*)

*Satyrium titus* (*Prunus*)

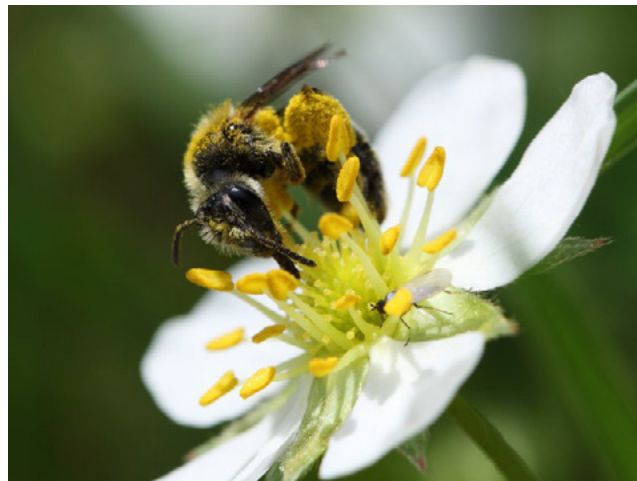
*Colias interior* (*Vaccinium*)

**Moths:**

*Phyllonorycter apparella* (*Populus grandidentata*),

*Papaipema furcata* (*Fraxinus pennsylvanica*)

*Archiearis infans* (*Betula papyrifera*)



*Andrena melanochroa* (rose miner bee) uses species in the Rosaceae (rose) family as a host plant.  
Photo: Michael Veit

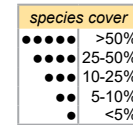


*Papaipema furcata* (ash tip borer) uses *Fraxinus pennsylvanica* (green ash) as a host plant. Photo: Kyle Johnson

# FDc34 Central Dry-Mesic Pine-Hardwood Forest

## Pollinator Resources Table

FDc34 Class Factsheet. Based on 59 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> )	97	●	SI	Perennial	Present	insects	Early spring insect	5
Large-leaved aster ( <i>Aster macrophyllus</i> )	92	●●●	A	Perennial	Present	insects	Generalist	2
Wild sarsaparilla ( <i>Aralia nudicaulis</i> )	92	●●	D	Perennial	Present	insects	Generalist	4
Bracken ( <i>Pteridium aquilinum</i> )	92	●●●	SC	Perennial	Present	wind, water	Generalist	0
Early meadow-rue ( <i>Thalictrum dioicum</i> )	76	●	SI	Perennial	Present	wind	Generalist	0
Common strawberry ( <i>Fragaria virginiana</i> )	76	●	SC	Perennial	Present	insects	Early spring insect	3
Wood anemone ( <i>Anemone quinquefolia</i> )	71	●	UNK	Perennial	Present	insects	Early spring insect	4
Rose twistedstalk ( <i>Streptopus roseus</i> )	68	●	UNK	Perennial	Present	insects	Early spring insect	4
Sweet-scented bedstraw ( <i>Galium triflorum</i> )	64	●	UNK	Perennial	Present	insects	Generalist	3
Maryland black snakeroot ( <i>Sanicula marilandica</i> )	54	●	UNK	Perennial	Absent	insects	Generalist	4
Large-flowered bellwort ( <i>Uvularia grandiflora</i> )	51	●	SI	Perennial	Present	insects	Early spring insect	5
Pale bellwort ( <i>Uvularia sessilifolia</i> )	51	●	SI	Perennial	Present	insects	Early spring insect	5
Pale vetchling ( <i>Lathyrus ochroleucus</i> )	47	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Bluebead lily ( <i>Clintonia borealis</i> )	46	●	SI	Perennial	Present	insects	Generalist	4
Spreading dogbane ( <i>Apocynum androsaemifolium</i> )	44	●	SI	Perennial	Present	insects	Generalist	4
Dwarf raspberry ( <i>Rubus pubescens</i> )	42	●	SC	Perennial	Present	insects	Generalist	2
Round-lobed hepatica ( <i>Anemone americana</i> )	39	●	SC	Perennial	Present	insects	Early spring insect	3
Bunchberry ( <i>Cornus canadensis</i> )	39	●	SI	Perennial	Present	insects	Generalist	4
Veiny pea ( <i>Lathyrus venosus</i> )	36	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Hog peanut ( <i>Amphicarpaea bracteata</i> )	36	●●	CH and CL flowers	Annual	Present	insects	Somewhat specific insect	6
Lindley's aster ( <i>Aster ciliolatus</i> )	34	●	UNK	Perennial	Present	insects	Generalist	3
Clayton's sweet cicely ( <i>Osmorhiza claytonii</i> )	32	●	D	Perennial	Absent	insects	Generalist	5
Northern bedstraw ( <i>Galium boreale</i> )	32	●	SI	Perennial	Present	insects	Generalist	4
Starflower ( <i>Trientalis borealis</i> )	27	●	SI/sc	Perennial	Present	insects	Generalist	3
Columbine ( <i>Aquilegia canadensis</i> )	24	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
American vetch ( <i>Vicia americana</i> )	24	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Red baneberry ( <i>Actaea rubra</i> )	20	●	SC	Perennial	Present	insects	Early spring insect	3
<b>Grasses and Sedges</b>								
Mountain rice grass ( <i>Oryzopsis asperifolia</i> )	68	●●	UNK	Perennial	Absent	wind	Generalist	0
Pennsylvania sedge ( <i>Carex pensylvanica</i> )	59	●●●	SC	Perennial	Present	wind	Generalist	0
False melic grass ( <i>Schizachne purpurascens</i> )	29	●	UNK	Perennial	Absent	wind	Generalist	0
<b>Climbing Plants</b>								
Wild honeysuckle ( <i>Lonicera dioica</i> )	17	●	SC	Perennial	Weakly	insects	Somewhat specific insect	3
Virginia creeper ( <i>Parthenocissus</i> spp.)	14	●	SC	Perennial	Present	insects	Generalist	2
<b>Low Shrubs</b>								
Lowbush blueberry ( <i>Vaccinium angustifolium</i> )	61	●	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Red raspberry ( <i>Rubus idaeus</i> )	41	●●	SC	Perennial	Present	insects	Generalist	2

Tall blackberries*	20	●●●	Varies	Perennial	Present	insects	Generalist	Varies
Velvet-leaved blueberry ( <i>Vaccinium myrtilloides</i> )	17	●	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Wintergreen ( <i>Gaultheria procumbens</i> )	15	●	SC	Perennial	Present	insects	Somewhat specific insect	3
<b>Shrubs</b>								
Beaked hazelnut ( <i>Corylus cornuta</i> )	97	●●●●	Di	Perennial	Present	wind	Generalist	0
Bush honeysuckle ( <i>Diervilla lonicera</i> )	86	●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Chokecherry ( <i>Prunus virginiana</i> )	81	●	SI	Perennial	Present	insects	Early spring insect	5
Juneberries ( <i>Amelanchier</i> spp.)	68	●	Varies	Perennial	Present	insects	Early spring insect	Varies
Poison ivy ( <i>Toxicodendron rydbergii</i> )	68	●●	D	Perennial	Present	insects	Generalist	4
Prickly or Smooth wild rose ( <i>Rosa acicularis</i> or <i>blanda</i> )	66	●	SC	Perennial	Present	insects	Generalist	2
Downy arrowwood ( <i>Viburnum rafinesquianum</i> )	59	●●	UNK	Perennial	Present	insects	Generalist	3
Round-leaved dogwood ( <i>Cornus rugosa</i> )	44	●●	UNK	Perennial	Present	insects	Generalist	3
Snowberry or Wolfberry**	36	●	SC	Perennial	Present	insects	Generalist	2
American hazelnut ( <i>Corylus americana</i> )	29	●●●	Di	Perennial	Present	wind	Generalist	0
Fly honeysuckle ( <i>Lonicera canadensis</i> )	27	●	SC	Perennial	Absent	insects	Somewhat specific insect	4
Hairy honeysuckle ( <i>Lonicera hirsuta</i> )	22	●	SC	Perennial	Weakly	insects	Somewhat specific insect	3
<b>Tree Canopy</b>								
Red pine	51	●●●●	UNK	Perennial	Absent	wind	Generalist	0
White pine	46	●●●●	SI	Perennial	Absent	wind	Generalist	0
Paper birch	42	●●●	Di	Perennial	Present	wind	Generalist	0
Northern red oak	37	●●●	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	36	●●●	D	Perennial	Present	wind	Generalist	0
Red maple	34	●●●	D	Perennial	Absent	insects	Early spring insect	6
Bur oak	25	●●●	SI	Perennial	Present	wind	Generalist	0
Jack pine	17	●●	UNK	Perennial	Absent	wind	Generalist	0
Big-toothed aspen	14	●●●	D	Perennial	Present	wind	Generalist	0
Basswood	8	●●	SI	Perennial	Absent	insects	Generalist	5
Black cherry	-	-	SI	Perennial	Present	insects	Early spring insect	5
Green ash	-	-	D	Perennial	UNK	wind	Generalist	0
Ironwood	-	-	UNK	Perennial	Present	wind	Generalist	0
<b>Tree Subcanopy</b>								
Red pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
White pine	17	●●	SI	Perennial	Absent	wind	Generalist	0
Paper birch	44	●●	Di	Perennial	Present	wind	Generalist	0
Northern red oak	41	●●	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	27	●	D	Perennial	Present	wind	Generalist	0
Red maple	59	●●●	D	Perennial	Absent	insects	Early spring insect	6
Bur oak	36	●	SI	Perennial	Present	wind	Generalist	0
Jack pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
Big-toothed aspen	12	●	D	Perennial	Present	wind	Generalist	0

Basswood	17	••	SI	Perennial	Absent	insects	Generalist	5
Black cherry	20	•	SI	Perennial	Present	insects	Early spring insect	5
Green ash	15	•	D	Perennial	UNK	wind	Generalist	0
Ironwood	10	••	UNK	Perennial	Present	wind	Generalist	0
<b>Tree Shrub Layer</b>								
Red pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
White pine	34	•	SI	Perennial	Absent	wind	Generalist	0
Paper birch	17	•	Di	Perennial	Present	wind	Generalist	0
Northern red oak	54	•	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	44	•	D	Perennial	Present	wind	Generalist	0
Red maple	78	•	D	Perennial	Absent	insects	Early spring insect	6
Bur oak	46	•	SI	Perennial	Present	wind	Generalist	0
Jack pine	-	-	UNK	Perennial	Absent	wind	Generalist	0
Big-toothed aspen	-	-	D	Perennial	Present	wind	Generalist	0
Basswood	15	•	SI	Perennial	Absent	insects	Generalist	5
Black cherry	17	•	SI	Perennial	Present	insects	Early spring insect	5
Green ash	24	•	D	Perennial	UNK	wind	Generalist	0
Ironwood	8	•	UNK	Perennial	Present	wind	Generalist	0

\*(*Rubus allegheniensis* and similar *Rubus* spp.); \*\* (*Symphoricarpos albus* or *S. occidentalis*)