

## FDs36 Southern Dry-Mesic Oak-Aspen Forest Pollinator Resources

Dry-mesic hardwood forests dominated by a mix of bur oak and quaking aspen. Present on hummocky stagnation moraines on well-drained, gravelly, loamy, calcareous till in northwestern Minnesota.

**Examples of insect pollinators (and their associated host plants in parentheses) that use FDs36 include:**

**Bees:**

*Hylaeus sparsus* (Apiaceae)

*Andrena ziziae* (Zizia)

*Andrena placata* (Solidago, Symphyotrichum)

**Butterflies:**

*Satyrrium titus* (Prunus)

*Satyrrium edwardsii* (Quercus)

*Erynnis juvenalis* (Quercus)

*Argynnis cybele* (Viola)

**Moths:**

*Phyllocnistis vitifoliella* (Vitis riparia)

*Phigalia strigataria* (Corylus americana)

*Cycnia tenera* (Apocynum androsaemifolium)



*Phigalia strigataria* (small phigalia moth) uses *Corylus americana* (American hazelnut) as a host plant.

Photo: Bob Dunlap

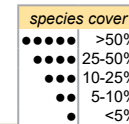


*Satyrrium edwardsii* (Edwards' hairstreak) uses *Quercus* (oak) species as a host plant. Photo: Bob Dunlap

# FDs36 Southern Dry-Mesic Oak-Aspen Forest

## Pollinator Resources Table

FDs36 Class Factsheet. Based on 25 plots. November, 2024.



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Large-flowered bellwort ( <i>Uvularia grandiflora</i> )	88	●●●	SI	Perennial	Present	insects	Early spring insect	5
Early meadow-rue ( <i>Thalictrum dioicum</i> )	80	●●	SI	Perennial	Present	wind	Generalist	0
Maryland black snakeroot ( <i>Sanicula marilandica</i> )	80	●	UNK	Perennial	Absent	insects	Generalist	4
Clayton's sweet cicely ( <i>Osmorhiza claytonii</i> )	76	●	D	Perennial	Absent	insects	Generalist	5
Wild sarsaparilla ( <i>Aralia nudicaulis</i> )	72	●●●	D	Perennial	Present	insects	Generalist	4
Canada mayflower ( <i>Maianthemum canadense</i> )	72	●	SI	Perennial	Present	insects	Early spring insect	5
Common strawberry ( <i>Fragaria virginiana</i> )	68	●	SC	Perennial	Present	insects	Early spring insect	3
Lindley's aster ( <i>Aster ciliolatus</i> )	64	●	UNK	Perennial	Present	insects	Generalist	3
Hog peanut ( <i>Amphicarpaea bracteata</i> )	64	●	CH and CL flowers	Annual	Present	insects	Somewhat specific insect	6
Lopseed ( <i>Phryma leptostachya</i> )	60	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Erect, Smooth, or Illinois carrion-flower ( <i>Smilax</i> spp.)*	52	●	D	Perennial	Present	insects	Somewhat specific insect	5
Sweet-scented bedstraw ( <i>Galium triflorum</i> )	44	●	UNK	Perennial	Present	insects	Generalist	3
Pointed-leaved tick trefoil ( <i>Desmodium glutinosum</i> )	40	●●	UNK	Perennial	Absent	insects	Somewhat specific insect	5
Columbine ( <i>Aquilegia canadensis</i> )	40	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Starry false Solomon's seal ( <i>Smilacina stellata</i> )	36	●	UNK	Perennial	Present	insects	Early spring insect	4
Spreading dogbane ( <i>Apocynum androsaemifolium</i> )	36	●●	SI	Perennial	Present	insects	Generalist	4
Rugulose or Yellow violet ( <i>Viola canadensis</i> or <i>V. pubescens</i> )	36	●	Varies	Perennial	Present	insects	Varies	Varies
Bloodroot ( <i>Sanguinaria canadensis</i> )	32	●	SC	Perennial	Present	insects	Early spring insect	3
Canada goldenrod ( <i>Solidago canadensis</i> )	32	●	SI	Perennial	Present	insects	Generalist	4
Bracken ( <i>Pteridium aquilinum</i> )	32	●●	SC	Perennial	Present	wind, water	Generalist	0
Common false Solomon's seal ( <i>Smilacina racemosa</i> )	32	●	UNK	Perennial	Present	insects	Early spring insect	4
Zigzag goldenrod ( <i>Solidago flexicaulis</i> )	32	●	SI	Perennial	Present	insects	Generalist	4
Dwarf raspberry ( <i>Rubus pubescens</i> )	32	●	SC	Perennial	Present	insects	Generalist	2
Rattlesnake fern ( <i>Botrychium virginianum</i> )	32	●	SC	Perennial	Present	wind, water	Generalist	0
Wood anemone ( <i>Anemone quinquefolia</i> )	32	●	UNK	Perennial	Present	insects	Early spring insect	4
Blue cohosh ( <i>Caulophyllum thalictroides</i> )	28	●	SC/SI	Perennial	Present	insects	Early spring insect	4
Red baneberry ( <i>Actaea rubra</i> )	28	●	SC	Perennial	Present	insects	Early spring insect	3
Tall coneflower ( <i>Rudbeckia laciniata</i> )	28	●●	SC	Perennial	Present	insects	Generalist	2
Tall meadow-rue ( <i>Thalictrum dasycarpum</i> )	28	●●	D	Perennial	Present	wind	Generalist	0
Golden alexanders ( <i>Zizia aurea</i> )	28	●	SC	Perennial	Absent	insects	Generalist	3
Pink shinleaf ( <i>Pyrola asarifolia</i> )	24	●	UNK	Perennial	Present	insects	Buzz pollination	5
Yellow lady's slipper ( <i>Cypripedium calceolus</i> )	16	●	SC	Perennial	Weakly	insects	Very specialized insect	4
Wild ginger ( <i>Asarum canadense</i> )	12	●●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Pale vetchling ( <i>Lathyrus ochroleucus</i> )	12	●	SI	Perennial	Present	insects	Somewhat specific insect	5
<b>Grasses and Sedges</b>								
Pennsylvania sedge ( <i>Carex pensylvanica</i> )	84	●●●	SC	Perennial	Present	wind	Generalist	0
Mountain rice grass ( <i>Oryzopsis asperifolia</i> )	44	●	UNK	Perennial	Absent	wind	Generalist	0
Bottlebrush grass ( <i>Elymus hystrix</i> )	28	●	UNK	Perennial	Absent	wind	Generalist	0

<b>Climbing Plants</b>								
Virginia creeper ( <i>Parthenocissus</i> spp.)	48	••	SC	Perennial	Present	insects	Generalist	2
Wild honeysuckle ( <i>Lonicera dioica</i> )	28	•	SC	Perennial	Weakly	insects	Somewhat specific insect	3
Climbing bittersweet ( <i>Celastrus scandens</i> )	28	•	D or PD	Perennial	Present	insects	Generalist	4
Wild grape ( <i>Vitis riparia</i> )	24	•	D	Perennial	Present	insects	Generalist	4
<b>Low Shrubs</b>								
Red raspberry ( <i>Rubus idaeus</i> )	32	•	SC	Perennial	Present	insects	Generalist	2
<b>Shrubs</b>								
Downy arrowwood ( <i>Viburnum rafinesquianum</i> )	88	••	UNK	Perennial	Present	insects	Generalist	3
Poison ivy ( <i>Toxicodendron rydbergii</i> )	84	•••	D	Perennial	Present	insects	Generalist	4
Chokecherry ( <i>Prunus virginiana</i> )	76	•	SI	Perennial	Present	insects	Early spring insect	5
Juneberries ( <i>Amelanchier</i> spp.)	76	•	Varies	Perennial	Present	insects	Early spring insect	Varies
Gray dogwood ( <i>Cornus racemosa</i> )	68	•••	UNK	Perennial	Present	insects	Generalist	3
American hazelnut ( <i>Corylus americana</i> )	68	•••	Di	Perennial	Present	wind	Generalist	0
Snowberry or Wolfberry ( <i>Symphoricarpos albus</i> or <i>S. occidentalis</i> )	68	•	SC	Perennial	Present	insects	Generalist	2
Prickly ash ( <i>Zanthoxylum americanum</i> )	44	•	D	Perennial	Present	insects	Generalist	4
Beaked hazelnut ( <i>Corylus cornuta</i> )	40	•••	Di	Perennial	Present	wind	Generalist	0
Prickly or Smooth wild rose ( <i>Rosa acicularis</i> or <i>R. blanda</i> )	32	•	SC	Perennial	Present	insects	Generalist	2
Wild plum ( <i>Prunus americana</i> )	24	•	SI	Perennial	Present	insects	Early spring insect	5
<b>Tree Canopy</b>								
Bur oak	76	••••	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	72	•••	D	Perennial	Present	wind	Generalist	0
Basswood	40	•••	SI	Perennial	Absent	insects	Generalist	5
American elm	36	•	Di	Perennial	Absent	wind	Generalist	0
Green ash	20	•	D	Perennial	UNK	wind	Generalist	0
Paper birch	20	•	Di	Perennial	Present	wind	Generalist	0
Northern red oak	8	••••	SI	Perennial	Present	wind	Generalist	0
Box elder	-	-	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	-	-	UNK	Perennial	Present	wind	Generalist	0
Black cherry	-	-	SI	Perennial	Present	insects	Early spring insect	5
<b>Tree Subcanopy</b>								
Bur oak	24	•••	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	60	••	D	Perennial	Present	wind	Generalist	0
Basswood	16	••	SI	Perennial	Absent	insects	Generalist	5
American elm	28	••	Di	Perennial	Absent	wind	Generalist	0
Green ash	36	•	D	Perennial	UNK	wind	Generalist	0
Paper birch	-	-	Di	Perennial	Present	wind	Generalist	0
Northern red oak	8	•	SI	Perennial	Present	wind	Generalist	0
Box elder	24	•	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	20	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	12	•	SI	Perennial	Present	insects	Early spring insect	5

**Tree Shrub Layer**

Bur oak	28	•	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	44	•	D	Perennial	Present	wind	Generalist	0
Basswood	24	•	SI	Perennial	Absent	insects	Generalist	5
American elm	32	•	Di	Perennial	Absent	wind	Generalist	0
Green ash	64	•	D	Perennial	UNK	wind	Generalist	0
Paper birch	8	•	Di	Perennial	Present	wind	Generalist	0
Northern red oak	20	•	SI	Perennial	Present	wind	Generalist	0
Box elder	24	•	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	24	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	12	•	SI	Perennial	Present	insects	Early spring insect	5

\* Erect, Smooth, or Illinois carrion-flower (*Smilax ecirrata*, *S. herbacea*, or *S. illinoensis*)