FDs27 Southern Dry-Mesic Pine-Oak Woodland Pollinator Resources

Dry-mesic (or dry) hardwood or pine-hardwood woodlands on sand deposits, primarily in the blufflands of southeastern Minnesota.

Examples of insect pollinators (and their associated host plants in parentheses) that use FDs27 include:

Bees:

Andrena wilkella (Fabaceae)
Andrena platyparia (Cornus [Swida])
Perdita octomaculata (Solidago)
Colletes brevicornis (Campanula)
Colletes mandibularis (Amorpha)

Butterflies:

Polygonia progne (Ribes) Satyrium titus (Prunus)

Moths:

Pygarctia spraguei (Euphorbia corollate) Phyllonorycter lucetiella (Tilia americana) Phosphila turbulenta (Smilax tamnoides)



Perdita octomaculata (eight-spotted fairy bee) uses Solidago (goldenrod) species as a host plant. Photo: Max McCarthy



Satyrium titus (coral hairstreak) uses Prunus (plum, cherry) species as a host plant. Photo: Bob Dunlap



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Pollinator Resources Table

FDs27 Class Factsheet. Based on 13 plots. November, 2024.





1 Daz 7 Class Factoricet. Dasca on 13 proto. Nove							● <5%	
Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Clayton's sweet cicely (Osmorhiza claytonii)	85	•	D	Perennial	Absent	insects	Generalist	5
Northern bedstraw (Galium boreale)	85	•	SI	Perennial	Present	insects	Generalist	4
Columbine (Aquilegia canadensis)	77	•	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Hog peanut (Amphicarpaea bracteata)	77	•	CH and CL flowers	Annual	Present	insects	Somewhat specific insect	6
Lopseed (<i>Phryma leptostachya</i>)	69	•	UNK	Perennial	Present	insects	Somewhat specific insect	4
Bracken (Pteridium aquilinum)	69	••	SC	Perennial	Present	wind, water	Generalist	0
White snakeroot (Eupatorium rugosum)	69	•	UNK	Perennial	Present	insects	Generalist	3
Flowering spurge (Euphorbia corollata)	62	•	SI	Perennial	Present	insects	Generalist	4
Common false Solomon's seal (Smilacina racemosa)	62	•	UNK	Perennial	Present	insects	Early spring insect	4
Pointed-leaved tick trefoil (Desmodium glutinosum)	54	•	UNK	Perennial	Absent	insects	Somewhat specific insect	5
White rattlesnakeroot (Prenanthes alba)	46	•	UNK	Perennial	Absent	insects	Somewhat specific insect	5
Heart-leaved aster (Aster cordifolius)	46	•	SI	Perennial	Present	insects	Generalist	4
Elliptic shinleaf (Pyrola elliptica)	46	•	UNK	Perennial	Present	insects	Buzz pollination	5
Common enchanter's nightshade (Circaea lutetiana)	46	•	SC	Perennial	Present	insects	Generalist	2
Canada mayflower (Maianthemum canadense)	46	•	SI	Perennial	Present	insects	Early spring insect	5
Wild sarsaparilla (Aralia nudicaulis)	46	•	D	Perennial	Present	insects	Generalist	4
Elm-leaved goldenrod (Solidago ulmifolia)	38	•	SI	Perennial	Present	insects	Generalist	4
Common strawberry (Fragaria virginiana)	38	•	SC	Perennial	Present	insects	Early spring insect	3
Harebell (Campanula rotundifolia)	38	•	± SI	Perennial	Present	insects	Generalist	4
Gregarious black snakeroot (Sanicula gregaria)	38	•	UNK	Perennial	Absent	insects	Generalist	4
Pussytoes (Antennaria spp.)	38	•	Α	Perennial	Present	wind	Generalist	0
Downy rattlesnake plantain (Goodyera pubescens)	38	•	SC	Perennial	Present	insects	Generalist	2
Sweet-scented bedstraw (Galium triflorum)	38	•	UNK	Perennial	Present	insects	Generalist	3
White avens (Geum canadense)	38	•	UNK	Perennial	Present	insects	Generalist	3
Spreading dogbane (Apocynum androsaemifolium)	31	•	SI	Perennial	Present	insects	Generalist	4
Round-lobed hepatica (Anemone americana)	31	•	SC	Perennial	Present	insects	Early spring insect	3
Wood anemone (Anemone quinquefolia)	31	•	UNK	Perennial	Present	insects	Early spring insect	4
Wild geranium (Geranium maculatum)	31	•	SC	Perennial	Present	insects	Early spring insect	3
Shining bedstraw (Galium concinnum)	31	•	UNK	Perennial	Present	insects	Generalist	3
Yarrow (Achillea millefolium)	31	•	SI	Perennial	Present	insects	Generalist	4
Rattlesnake fern (Botrychium virginianum)	31	•	SC	Perennial	Present	wind, water	Generalist	0
Lady fern (Athyrium filix-femina)	31	•	SC	Perennial	Present	wind, water	Generalist	0
Grasses and Sedges								
Pennsylvania sedge (Carex pensylvanica)	100	••••	SC	Perennial	Present	wind	Generalist	0
Climbing Plants								
Virginia creeper (Parthenocissus spp.)	92	••	SC	Perennial	Present	insects	Generalist	2
Wild grape (Vitis riparia)	77	•	D	Perennial	Present	insects	Generalist	4
Greenbrier (Smilax tamnoides)	31	•	D	Perennial	Present	insects	Somewhat specific insect	5

Low Shrubs								
Black raspberry (Rubus occidentalis)	54	••	SC	Perennial	Present	insects	Generalist	2
Red raspberry (Rubus idaeus)	38	••	SC	Perennial	Present	insects	Generalist	2
Pipsissewa (Chimaphila umbellata)	31	••	SC	Perennial	Present	insects	Somewhat specific insect	3
Leadplant (Amorpha canescens)	31	•	SC	Perennial	Present	insects	Generalist	2
Lowbush blueberry (Vaccinium angustifolium)	15	•	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Shrubs								
American hazelnut (Corylus americana)	92	•••	Di	Perennial	Present	wind	Generalist	0
Missouri gooseberry (Ribes missouriense)	85	••	SI	Perennial	Present	insects	Generalist	4
Prickly ash (Zanthoxylum americanum)	85	••	D	Perennial	Present	insects	Generalist	4
Poison ivy (Toxicodendron rydbergii)	77	•	D	Perennial	Present	insects	Generalist	4
Gray dogwood (Cornus racemosa)	62	••	UNK	Perennial	Present	insects	Generalist	3
Chokecherry (Prunus virginiana)	62	••	SI	Perennial	Present	insects	Early spring insect	5
Pagoda dogwood (Cornus alternifolia)	46	•	UNK	Perennial	Present	insects	Generalist	3
Pin cherry (Prunus pensylvanica)	23	•••	SI	Perennial	Present	insects	Early spring insect	5
Tree Canopy								
White pine	46	••••	SI	Perennial	Absent	wind	Generalist	0
Paper birch	46	••	Di	Perennial	Present	wind	Generalist	0
Bur oak	46	••	SI	Perennial	Present	wind	Generalist	0
Northern pin oak	46	••••	SI	Perennial	Present	wind	Generalist	0
White oak	38	•••	SI	Perennial	Present	wind	Generalist	0
Black oak	31	••••	SI	Perennial	Present	wind	Generalist	0
Northern red oak	31	•••	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	23	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	23	•	SI	Perennial	Present	insects	Early spring insect	5
Basswood	23	•	SI	Perennial	Absent	insects	Generalist	5
Ironwood	15	•••	UNK	Perennial	Present	wind	Generalist	0
Jack pine	15	•••	UNK	Perennial	Absent	wind	Generalist	0
Eastern red cedar	15	•	D	Perennial	Absent	wind	Generalist	0
Tree Subcanopy								
White pine	46	•••	SI	Perennial	Absent	wind	Generalist	0
Paper birch	23	•	Di	Perennial	Present	wind	Generalist	0
Bur oak	15	••	SI	Perennial	Present	wind	Generalist	0
Northern pin oak	31	•••	SI	Perennial	Present	wind	Generalist	0
White oak	46	••	SI	Perennial	Present	wind	Generalist	0
Black oak	31	••••	SI	Perennial	Present	wind	Generalist	0
Northern red oak	23	•••	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	23	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	62	••	SI	Perennial	Present	insects	Early spring insect	5
Basswood	46	•	SI	Perennial	Absent	insects		5

Ironwood	38	•••	UNK	Perennial	Present	wind	Generalist	0
Jack pine	8	•	UNK	Perennial	Absent	wind	Generalist	0
Eastern red cedar	46	•	D	Perennial	Absent	wind	Generalist	0
Tree Shrub Layer								
White pine	54	•	SI	Perennial	Absent	wind	Generalist	0
Paper birch	15	•	Di	Perennial	Present	wind	Generalist	0
Bur oak	23	•	SI	Perennial	Present	wind	Generalist	0
Northern pin oak	23	••	SI	Perennial	Present	wind	Generalist	0
White oak	46	•	SI	Perennial	Present	wind	Generalist	0
Black oak	31	•••	SI	Perennial	Present	wind	Generalist	0
Northern red oak	31	•	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	62	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	77	•	SI	Perennial	Present	insects	Early spring insect	5
Basswood	46	•	SI	Perennial	Absent	insects	Generalist	5
Ironwood	38	•	UNK	Perennial	Present	wind	Generalist	0
Jack pine	8	•	UNK	Perennial	Absent	wind	Generalist	0
Eastern red cedar	38	•	D	Perennial	Absent	wind	Generalist	0