

## FFs59 Southern Terrace Forest Pollinator Resources

Wet-mesic deciduous forests on silty or sandy alluvium on level, occasionally flooded sites along small streams to large rivers in the southern half of Minnesota.

Examples of insect pollinators (and their associated host plants in parentheses) that use FFs59 include:

**Bees:**

*Andrena geranii* (*Hydrophyllum virginianum*)

*Andrena distans* (*Geranium maculatum*)

*Andrena rudbeckiae* (*Rudbeckia*)

**Butterflies:**

*Aglais milberti* (*Laportea canadensis*)

*Asterocampa celtis* (*Celtis occidentalis*)

*Boloria bellona* (*Viola*)

**Moths:**

*Libytheana carinenta* (*Celtis occidentalis*)

*Rifargia subrotata* (*Celtis occidentalis*)

*Phyllocnistis vitifoliella* (*Vitis riparia*)

*Achatodes zea* (*Sambucus canadensis*)



*Andrena geranii* (waterleaf mining bee) uses *Hydrophyllum virginianum* (Virginia waterleaf) as a host plant. Photo: Heather Holm

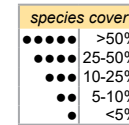


*Boloria bellona* (meadow fritillary) uses *Viola* (violet) species as a host plant. Photo: Bob Dunlap

# FFs59 Southern Terrace Forest

## Pollinator Resources Table

FFs59 Class Factsheet. Based on 43 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Wood nettle ( <i>Laportea canadensis</i> )	98	●●●●	UNK	Perennial	Present	wind	Generalist	0
Touch-me-not ( <i>Impatiens</i> spp.)	77	●	SI/SC	Annual	Absent	insects	Somewhat specific insect	6
Virginia waterleaf ( <i>Hydrophyllum virginianum</i> )	70	●●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Tall coneflower ( <i>Rudbeckia laciniata</i> )	67	●●	SC	Perennial	Present	insects	Generalist	2
Stinging nettle ( <i>Urtica dioica</i> )	58	●	D	Perennial	Present	wind	Generalist	0
Cleavers ( <i>Galium aparine</i> )	51	●●●	SC	Annual	Absent	insects	Early spring insect	5
Honewort ( <i>Cryptotaenia canadensis</i> )	49	●●	SC	Perennial	Present	insects	Generalist	2
White avens ( <i>Geum canadense</i> )	40	●	UNK	Perennial	Present	insects	Generalist	3
Aniseroot ( <i>Osmorhiza longistylis</i> )	37	●●	D	Perennial	Absent	insects	Generalist	5
Blue phlox ( <i>Phlox divaricata</i> )	37	●	SI	Perennial	Weakly	insects	Early spring insect, Somewhat specific insect	5
Virginia knotweed ( <i>Polygonum virginianum</i> )	35	●●	UNK	Perennial	Present	insects	Generalist	3
Stemless blue violets ( <i>Viola</i> spp.)*	35	●●	Varies	Perennial	Present	insects	Varies	Varies
Erect, Smooth, or Illinois carrion-flower**	35	●	D	Perennial	Present	insects	Somewhat specific insect	5
Jack-in-the-pulpit ( <i>Arisaema triphyllum</i> )	33	●	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Rugulose or Yellow violet***	30	●	Varies	Perennial	Present	insects	Varies	Varies
False rue anemone ( <i>Enemion biternatum</i> )	30	●●	SC	Perennial	Weakly	insects	Early spring insect	3
Clearweed ( <i>Pilea</i> spp.)	28	●●	sometimes D	Annual	Absent	wind	Generalist	0
Hispid buttercup ( <i>Ranunculus hispidus</i> )	28	●●	SI	Perennial	Present	insects	Early spring insect	5
Common enchanter's nightshade ( <i>Circaea lutetiana</i> )	26	●	SC	Perennial	Present	insects	Generalist	2
Ontario aster ( <i>Aster ontarionis</i> )	26	●	UNK	Perennial	Present	insects	Generalist	3
Gregarious black snakeroot ( <i>Sanicula gregaria</i> )	23	●	UNK	Perennial	Absent	insects	Generalist	4
Maryland black snakeroot ( <i>Sanicula marilandica</i> )	23	●	UNK	Perennial	Absent	insects	Generalist	4
Cow parsnip ( <i>Heracleum lanatum</i> )	23	●●	UNK	Perennial	Absent	insects	Generalist	4
Sweet-scented bedstraw ( <i>Galium triflorum</i> )	21	●●	UNK	Perennial	Present	insects	Generalist	3
Clayton's sweet cicely ( <i>Osmorhiza claytonii</i> )	19	●●●	D	Perennial	Absent	insects	Generalist	5
Hog peanut ( <i>Amphicarpaea bracteata</i> )	19	●	CH and CL flowers	Annual	Present	insects	Somewhat specific insect	6
Woodmint ( <i>Blephilia hirsuta</i> )	16	●	SC	Perennial	Present	insects	Somewhat specific insect	3
Early meadow-rue ( <i>Thalictrum dioicum</i> )	16	●	SI	Perennial	Present	wind	Generalist	0
Starry false Solomon's seal ( <i>Smilacina stellata</i> )	16	●	UNK	Perennial	Present	insects	Early spring insect	4
Virginia bluebells ( <i>Mertensia virginica</i> )	16	●●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Ostrich fern ( <i>Matteuccia struthiopteris</i> )	16	●●●	SC	Perennial	Present	wind, water	Generalist	0
Wild geranium ( <i>Geranium maculatum</i> )	16	●	SC	Perennial	Present	insects	Early spring insect	3
<b>Grasses and Sedges</b>								
Virginia wild rye ( <i>Elymus virginicus</i> )	44	●	SC	Perennial	Absent	wind	Generalist	0
Ambiguous sedge ( <i>Carex amphibola</i> )	30	●	UNK	Perennial	Present	wind	Generalist	0
Bland sedge ( <i>Carex blanda</i> )	30	●	UNK	Perennial	Present	wind	Generalist	0
Nodding fescue ( <i>Festuca subverticillata</i> )	28	●	UNK	Perennial	Absent	wind	Generalist	0
White grass ( <i>Leersia virginica</i> )	23	●	UNK	Perennial	Present	wind	Generalist	0

Starry sedge ( <i>Carex rosea</i> )	14	•	UNK	Perennial	Present	wind	Generalist	0
Gray's sedge ( <i>Carex grayi</i> )	12	•	UNK	Perennial	Present	wind	Generalist	0
<b>Climbing Plants</b>								
Virginia creeper ( <i>Parthenocissus</i> spp.)	53	•	SC	Perennial	Present	insects	Generalist	2
Wild grape ( <i>Vitis riparia</i> )	53	•	D	Perennial	Present	insects	Generalist	4
Greenbrier ( <i>Smilax tamnoides</i> )	47	•	D	Perennial	Present	insects	Somewhat specific insect	5
Canada moonseed ( <i>Menispermum canadense</i> )	33	•	D	Perennial	Present	insects	Generalist	4
<b>Shrubs</b>								
Missouri gooseberry ( <i>Ribes missouriense</i> )	53	•	SI	Perennial	Present	insects	Generalist	4
Prickly ash ( <i>Zanthoxylum americanum</i> )	33	••	D	Perennial	Present	insects	Generalist	4
Common elder ( <i>Sambucus canadensis</i> )	33	•	UNK	Perennial	Present	insects	Generalist	3
Chokecherry ( <i>Prunus virginiana</i> )	33	•••	SI	Perennial	Present	insects	Early spring insect	5
Poison ivy ( <i>Toxicodendron rydbergii</i> )	23	••	D	Perennial	Present	insects	Generalist	4
Nannyberry ( <i>Viburnum lentago</i> )	16	••	SI	Perennial	Present	insects	Generalist	4
Prickly gooseberry ( <i>Ribes cynosbati</i> )	16	•	SI	Perennial	Present	insects	Generalist	4
Hawthorn ( <i>Crataegus</i> spp.)	14	••	Varies	Perennial	Absent	insects	Early spring insect	Varies
<b>Tree Canopy</b>								
American elm	65	•••	Di	Perennial	Absent	wind	Generalist	0
Box elder	56	•••	D	Perennial	Absent	insects	Early spring insect	6
Silver maple	51	•••	usually D	Perennial	Absent	insects,	Generalist	4
Green ash	44	••	D	Perennial	UNK	wind	Generalist	0
Hackberry	40	•••	SC	Perennial	Absent	wind	Generalist	0
Basswood	37	•••	SI	Perennial	Absent	insects	Generalist	5
Cottonwood	30	••••	D	Perennial	Present	wind	Generalist	0
Black ash	28	•••	D	Perennial	Absent	wind	Generalist	0
Red elm	26	•••	Di	Perennial	Absent	wind	Generalist	0
Swamp white oak	19	••••	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	14	•••	UNK	Perennial	Present	wind	Generalist	0
Black walnut	14	••••	SI/sc	Perennial	UNK	wind	Generalist	0
<b>Tree Subcanopy</b>								
American elm	67	•••	Di	Perennial	Absent	wind	Generalist	0
Box elder	53	•••	D	Perennial	Absent	insects	Early spring insect	6
Silver maple	21	••	usually D	Perennial	Absent	insects,	Generalist	4
Green ash	40	••	D	Perennial	UNK	wind	Generalist	0
Hackberry	58	••	SC	Perennial	Absent	wind	Generalist	0
Basswood	26	•	SI	Perennial	Absent	insects	Generalist	5
Cottonwood	-	-	D	Perennial	Present	wind	Generalist	0
Black ash	19	••	D	Perennial	Absent	wind	Generalist	0
Red elm	12	•••	Di	Perennial	Absent	wind	Generalist	0
Swamp white oak	9	••	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	9	•••	UNK	Perennial	Present	wind	Generalist	0

Black walnut	-	-	SI/sc	Perennial	UNK	wind	Generalist	0
<b>Tree shrub Layer</b>								
American elm	44	•	Di	Perennial	Absent	wind	Generalist	0
Box elder	26	•	D	Perennial	Absent	insects	Early spring insect	6
Silver maple	9	•	usually D	Perennial	Absent	insects,	Generalist	4
Green ash	30	•	D	Perennial	UNK	wind	Generalist	0
Hackberry	33	•	SC	Perennial	Absent	wind	Generalist	0
Basswood	12	•	SI	Perennial	Absent	insects	Generalist	5
Cottonwood	-	-	D	Perennial	Present	wind	Generalist	0
Black ash	19	•	D	Perennial	Absent	wind	Generalist	0
Red elm	-	-	Di	Perennial	Absent	wind	Generalist	0
Swamp white oak	16	•	SI	Perennial	Present	wind	Generalist	0
Bitternut hickory	14	•	UNK	Perennial	Present	wind	Generalist	0
Black walnut	-	-	SI/sc	Perennial	UNK	wind	Generalist	0

\* Stemless blue violets (*Viola sororia*, *V. nephrophylla*, and similar *Viola* spp.); \*\* Erect, Smooth, or Illinois carrion-flower (*Smilax ecirrata*, *S. herbacea*, or *S. illinoensis*); \*\*\*Rugulose or Yellow violet (*Viola canadensis* or *V. pubescens*).