

MHs38 Southern Mesic Oak-Basswood Forest Pollinator Resources

Mesic hardwood or, occasionally, hardwood-conifer forests. Present on wind-deposited silt on bedrock bluffs, on calcareous till on rolling till plains, and, rarely, in association with natural fire breaks in prairie landscapes or on weakly calcareous till on stagnation moraines.

Examples of insect pollinators (and their associated host plants in parentheses) that use MHs38 include:

Bees:

Hylaeus sparsus (Apiaceae)

Andrena uvulariae (Uvularia)

Andrena chromotricha (Solidago)

Andrena geranii (*Hydrophyllum virginianum*)

Butterflies:

Papilio cresphontes (*Zanthoxylum americanum*)

Euphyes conspicua (*Carex*)

Argynnis cybele (*Viola*)

Moths:

Phyllonorycter lucetiella (*Tilia americana*)

Gnorimoschema gallaeasterella (*Solidago flexicaulis*)

Agonopterix paulae (*Zanthoxylum americanum*)



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

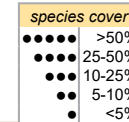


Euphyes conspicua (black dash skipper) uses *Carex* (sedge) species as a host plant. Photo: Bob Dunlap

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Pollinator Resources Table

MHs38 Class Factsheet. Based on 128 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Zigzag goldenrod (<i>Solidago flexicaulis</i>)	84	●●	SI	Perennial	Present	insects	Generalist	4
Clayton's sweet cicely (<i>Osmorhiza claytonii</i>)	81	●	D	Perennial	Absent	insects	Generalist	5
Bloodroot (<i>Sanguinaria canadensis</i>)	77	●	SC	Perennial	Present	insects	Early spring insect	3
Large-flowered bellwort (<i>Uvularia grandiflora</i>)	73	●●	SI	Perennial	Present	insects	Early spring insect	5
Lopseed (<i>Phryma leptostachya</i>)	65	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Common enchanter's nightshade (<i>Circaea lutetiana</i>)	64	●	SC	Perennial	Present	insects	Generalist	2
Early meadow-rue (<i>Thalictrum dioicum</i>)	63	●	SI	Perennial	Present	wind	Generalist	0
Virginia waterleaf (<i>Hydrophyllum virginianum</i>)	63	●●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)	56	●	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Erect, Smooth, or Illinois carrion-flower (<i>Smilax</i> spp.)*	55	●	D	Perennial	Present	insects	Somewhat specific insect	5
Wild geranium (<i>Geranium maculatum</i>)	55	●	SC	Perennial	Present	insects	Early spring insect	3
Honewort (<i>Cryptotaenia canadensis</i>)	54	●	SC	Perennial	Present	insects	Generalist	2
Wild sarsaparilla (<i>Aralia nudicaulis</i>)	54	●	D	Perennial	Present	insects	Generalist	4
Blue cohosh (<i>Caulophyllum thalictroides</i>)	53	●	SC/SI	Perennial	Present	insects	Early spring insect	4
Rattlesnake fern (<i>Botrychium virginianum</i>)	50	●	SC	Perennial	Present	wind, water	Generalist	0
Lady fern (<i>Athyrium filix-femina</i>)	50	●	SC	Perennial	Present	wind, water	Generalist	0
Rugulose or Yellow violet (<i>Viola canadensis</i> or <i>V. pubescens</i>)	50	●	Varies	Perennial	Present	insects	Varies	Varies
Common false Solomon's seal (<i>Smilacina racemosa</i>)	48	●	UNK	Perennial	Present	insects	Early spring insect	4
Maryland black snakeroot (<i>Sanicula marilandica</i>)	48	●	UNK	Perennial	Absent	insects	Generalist	4
Pointed-leaved tick trefoil (<i>Desmodium glutinosum</i>)	47	●	UNK	Perennial	Absent	insects	Somewhat specific insect	5
Red baneberry (<i>Actaea rubra</i>)	46	●	SC	Perennial	Present	insects	Early spring insect	3
Maidenhair fern (<i>Adiantum pedatum</i>)	44	●	SC	Perennial	Present	wind, water	Generalist	0
Hog peanut (<i>Amphicarpaea bracteata</i>)	44	●	CH and CL	Annual	Present	insects	Somewhat specific insect	6
Wild ginger (<i>Asarum canadense</i>)	43	●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Wood anemone (<i>Anemone quinquefolia</i>)	41	●	UNK	Perennial	Present	insects	Early spring insect	4
Sweet-scented bedstraw (<i>Galium triflorum</i>)	41	●	UNK	Perennial	Present	insects	Generalist	3
Sharp-lobed hepatica (<i>Anemone acutiloba</i>)	38	●	SC	Perennial	Present	insects	Early spring insect	3
White avens (<i>Geum canadense</i>)	37	●	UNK	Perennial	Present	insects	Generalist	3
Canada mayflower (<i>Maianthemum canadense</i>)	37	●	SI	Perennial	Present	insects	Early spring insect	5
Cleavers (<i>Galium aparine</i>)	34	●	SC	Annual	Absent	insects	Early spring insect	5
Shining bedstraw (<i>Galium concinnum</i>)	31	●	UNK	Perennial	Present	insects	Generalist	3
Grasses and Sedges								
Pennsylvania sedge (<i>Carex pensylvanica</i>)	57	●●●	SC	Perennial	Present	wind	Generalist	0
Starry sedge (<i>Carex rosea</i>)	41	●	UNK	Perennial	Present	wind	Generalist	0
Bland sedge (<i>Carex blanda</i>)	31	●	UNK	Perennial	Present	wind	Generalist	0
Bottlebrush grass (<i>Elymus hystrix</i>)	28	●	UNK	Perennial	Absent	wind	Generalist	0
Long-stalked sedge (<i>Carex pedunculata</i>)	27	●●	SC	Perennial	Present	wind	Generalist	0

Nodding fescue (<i>Festuca subverticillata</i>)	20	●	UNK	Perennial	Absent	wind	Generalist	0
Bearded shorthusk (<i>Brachyelytrum erectum</i>)	19	●	UNK	Perennial	Present	wind	Generalist	0
Climbing Plants								
Virginia creeper (<i>Parthenocissus</i> spp.)	80	●	SC	Perennial	Present	insects	Generalist	2
Wild grape (<i>Vitis riparia</i>)	39	●	D	Perennial	Present	insects	Generalist	4
Shrubs								
Prickly gooseberry (<i>Ribes cynosbati</i>)	71	●	SI	Perennial	Present	insects	Generalist	4
Chokecherry (<i>Prunus virginiana</i>)	64	●	SI	Perennial	Present	insects	Early spring insect	5
Prickly ash (<i>Zanthoxylum americanum</i>)	57	●●	D	Perennial	Present	insects	Generalist	4
Poison ivy (<i>Toxicodendron rydbergii</i>)	57	●	D	Perennial	Present	insects	Generalist	4
Pagoda dogwood (<i>Cornus alternifolia</i>)	53	●	UNK	Perennial	Present	insects	Generalist	3
Missouri gooseberry (<i>Ribes missouriense</i>)	30	●●	SI	Perennial	Present	insects	Generalist	4
Nannyberry (<i>Viburnum lentago</i>)	23	●	SI	Perennial	Present	insects	Generalist	4
Downy arrowwood (<i>Viburnum rafinesquianum</i>)	22	●	UNK	Perennial	Present	insects	Generalist	3
American hazelnut (<i>Corylus americana</i>)	21	●●	Di	Perennial	Present	wind	Generalist	0
Tree Canopy								
Basswood	82	●●	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	60	●	SI	Perennial	Present	wind	Generalist	0
Sugar maple	59	●●●	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	42	●●●	UNK	Perennial	Present	wind	Generalist	0
Green ash	36	●	D	Perennial	UNK	wind	Generalist	0
Bur oak	33	-	SI	Perennial	Present	wind	Generalist	0
White oak	30	-	SI	Perennial	Present	wind	Generalist	0
American elm	27	●●	Di	Perennial	Absent	wind	Generalist	0
Paper birch	20	-	Di	Perennial	Present	wind	Generalist	0
Bitternut hickory	18	●●	UNK	Perennial	Present	wind	Generalist	0
Red elm	16	●	Di	Perennial	Absent	wind	Generalist	0
White pine	12	-	SI	Perennial	Absent	wind	Generalist	0
Black cherry	9	●	SI	Perennial	Present	insects	Early spring insect	5
Blue beech	-	●●●	UNK	Perennial	Present	wind	Generalist	0
Tree Subcanopy								
Basswood	52	●●	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	11	●	SI	Perennial	Present	wind	Generalist	0
Sugar maple	60	●●●	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	84	●●●	UNK	Perennial	Present	wind	Generalist	0
Green ash	16	●	D	Perennial	UNK	wind	Generalist	0
Bur oak	-	-	SI	Perennial	Present	wind	Generalist	0
White oak	-	-	SI	Perennial	Present	wind	Generalist	0
American elm	21	●●	Di	Perennial	Absent	wind	Generalist	0
Paper birch	-	-	Di	Perennial	Present	wind	Generalist	0

Bitternut hickory	26	••	UNK	Perennial	Present	wind	Generalist	0
Red elm	19	•	Di	Perennial	Absent	wind	Generalist	0
White pine	-	-	SI	Perennial	Absent	wind	Generalist	0
Black cherry	9	•	SI	Perennial	Present	insects	Early spring insect	5
Blue beech	20	•••	UNK	Perennial	Present	wind	Generalist	0
Tree Shrub Layer								
Basswood	73	•	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	52	•	SI	Perennial	Present	wind	Generalist	0
Sugar maple	65	•••	D	Perennial	Absent	insects	Early spring insect	6
Ironwood	70	••	UNK	Perennial	Present	wind	Generalist	0
Green ash	38	•	D	Perennial	UNK	wind	Generalist	0
Bur oak	18	•	SI	Perennial	Present	wind	Generalist	0
White oak	9	•	SI	Perennial	Present	wind	Generalist	0
American elm	32	•	Di	Perennial	Absent	wind	Generalist	0
Paper birch	-	-	Di	Perennial	Present	wind	Generalist	0
Bitternut hickory	46	•	UNK	Perennial	Present	wind	Generalist	0
Red elm	34	•	Di	Perennial	Absent	wind	Generalist	0
White pine	-	-	SI	Perennial	Absent	wind	Generalist	0
Black cherry	34	•	SI	Perennial	Present	insects	Early spring insect	5
Blue beech	19	•	UNK	Perennial	Present	wind	Generalist	0

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