

MHc36 Central Mesic Hardwood Forest (Eastern) Pollinator Resources

Mesic hardwood forests dominated by basswood, northern red oak, and sugar maple. Present on loamy or sandy loam soils on hummocky stagnation moraines and rolling till plains.

Examples of insect pollinators (and their associated host plants in parentheses) that use MHc36 include:

Bees:

Andrena wilkella (Fabaceae)

Hylaeus sparsus (Apiaceae)

Andrena asteris (Solidago)

Butterflies:

Satyrion titus (Prunus)

Argynnis cybele (Viola)

Polygonia progne (Ribes)

Moths:

Macrosaccus morrisella (*Amphicarpaea bracteata*)

Lithophane innominata (*Acer saccharum*)

Phyllonorycter lucetiella (*Tilia americana*)

Cucullia convexipennis (*Solidago flexicaulis*)



Andrena asteris (aster miner bee) uses *Solidago* (goldenrod) species as a host plant.
Photo: Heather Holm

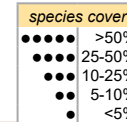


Argynnis cybele (great spangled fritillary) uses *Viola* (violet) species as a host plant. Photo: Bob Dunlap

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Pollinator Resources Table

MHc36 Class Factsheet. Based on 129 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Early meadow-rue (<i>Thalictrum dioicum</i>)	89	●	SI	Perennial	Present	wind	Generalist	0
Clayton's sweet cicely (<i>Osmorhiza claytonii</i>)	88	●	D	Perennial	Absent	insects	Generalist	5
Lady fern (<i>Athyrium filix-femina</i>)	88	●●	SC	Perennial	Present	wind, water	Generalist	0
Large-flowered bellwort (<i>Uvularia grandiflora</i>)	86	●	SI	Perennial	Present	insects	Early spring insect	5
Wild sarsaparilla (<i>Aralia nudicaulis</i>)	80	●	D	Perennial	Present	insects	Generalist	4
Yellow violet (<i>Viola pubescens</i>)	79	●	SI/SC	Perennial	Present	insects	Early spring insect	4
Zigzag goldenrod (<i>Solidago flexicaulis</i>)	79	●	SI	Perennial	Present	insects	Generalist	4
Large-leaved aster (<i>Aster macrophyllus</i>)	77	●	A	Perennial	Present	insects	Generalist	2
Hairy Solomon's seal (<i>Polygonatum pubescens</i>)	67	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Hog peanut (<i>Amphicarpaea bracteata</i>)	67	●●	CH and CL flowers	Annual	Present	insects	Somewhat specific insect	6
Common false Solomon's seal (<i>Smilacina racemosa</i>)	66	●	UNK	Perennial	Present	insects	Early spring insect	4
Round-lobed hepatica (<i>Anemone americana</i>)	61	●	SC	Perennial	Present	insects	Early spring insect	3
Rattlesnake fern (<i>Botrychium virginianum</i>)	60	●	SC	Perennial	Present	wind, water	Generalist	0
Wood anemone (<i>Anemone quinquefolia</i>)	60	●	UNK	Perennial	Present	insects	Early spring insect	4
American spikenard (<i>Aralia racemosa</i>)	60	●	UNK	Perennial	Present	insects	Generalist	3
Maryland black snakeroot (<i>Sanicula marilandica</i>)	60	●	UNK	Perennial	Absent	insects	Generalist	4
Bloodroot (<i>Sanguinaria canadensis</i>)	58	●	SC	Perennial	Present	insects	Early spring insect	3
Common enchanter's nightshade (<i>Circaea lutetiana</i>)	57	●	SC	Perennial	Present	insects	Generalist	2
Rose twistedstalk (<i>Streptopus roseus</i>)	56	●	UNK	Perennial	Present	insects	Early spring insect	4
Pale bellwort (<i>Uvularia sessilifolia</i>)	54	●	SI	Perennial	Present	insects	Early spring insect	5
Pointed-leaved tick trefoil (<i>Desmodium glutinosum</i>)	53	●	UNK	Perennial	Absent	insects	Somewhat specific insect	5
Wild geranium (<i>Geranium maculatum</i>)	52	●	SC	Perennial	Present	insects	Early spring insect	3
Large-flowered trillium (<i>Trillium grandiflorum</i>)	52	●●	SC	Perennial	Present	insects	Early spring insect	3
Canada mayflower (<i>Maianthemum canadense</i>)	51	●	SI	Perennial	Present	insects	Early spring insect	5
Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)	50	●	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Sweet-scented bedstraw (<i>Galium triflorum</i>)	50	●	UNK	Perennial	Present	insects	Generalist	3
Lopseed (<i>Phryma leptostachya</i>)	50	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Red baneberry (<i>Actaea rubra</i>)	49	●	SC	Perennial	Present	insects	Early spring insect	3
Interrupted fern (<i>Osmunda claytoniana</i>)	45	●●	SC	Perennial	Present	wind, water	Generalist	0
Erect, Smooth, or Illinois carrion-flower (<i>Smilax</i> spp.)*	43	●	D	Perennial	Present	insects	Somewhat specific insect	5
Blue cohosh (<i>Caulophyllum thalictroides</i>)	39	●	SC/SI	Perennial	Present	insects	Early spring insect	4
Bracken (<i>Pteridium aquilinum</i>)	39	●	SC	Perennial	Present	wind, water	Generalist	0
Wild ginger (<i>Asarum canadense</i>)	36	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Maidenhair fern (<i>Adiantum pedatum</i>)	26	●	SC	Perennial	Present	wind, water	Generalist	0
Grasses and Sedges								
Pennsylvania sedge (<i>Carex pensylvanica</i>)	78	●●●	SC	Perennial	Present	wind	Generalist	0
Mountain rice grass (<i>Oryzopsis asperifolia</i>)	60	●	UNK	Perennial	Absent	wind	Generalist	0

Long-stalked sedge (<i>Carex pedunculata</i>)	53	•	SC	Perennial	Present	wind	Generalist	0
Nodding fescue (<i>Festuca subverticillata</i>)	47	•	UNK	Perennial	Absent	wind	Generalist	0
Bearded shorthusk (<i>Brachyelytrum erectum</i>)	41	•	UNK	Perennial	Present	wind	Generalist	0
Dewey's sedge (<i>Carex deweyana</i>)	32	•	UNK	Perennial	Present	wind	Generalist	0
Climbing Plants								
Virginia creeper (<i>Parthenocissus</i> spp.)	43	•	SC	Perennial	Present	insects	Generalist	0
Shrubs								
Chokecherry (<i>Prunus virginiana</i>)	91	•	SI	Perennial	Present	insects	Early spring insect	5
Pagoda dogwood (<i>Cornus alternifolia</i>)	76	•	UNK	Perennial	Present	insects	Generalist	3
Prickly gooseberry (<i>Ribes cynosbati</i>)	74	•	SI	Perennial	Present	insects	Generalist	4
Beaked hazelnut (<i>Corylus cornuta</i>)	62	••	Di	Perennial	Present	wind	Generalist	0
Downy arrowwood (<i>Viburnum rafinesquianum</i>)	43	•	UNK	Perennial	Present	insects	Generalist	3
Leatherwood (<i>Dirca palustris</i>)	38	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Juneberries (<i>Amelanchier</i> spp.)	29	•	Varies	Perennial	Present	insects	Early spring insect	Varies
Poison ivy (<i>Toxicodendron rydbergii</i>)	24	•	D	Perennial	Present	insects	Generalist	4
Fly honeysuckle (<i>Lonicera canadensis</i>)	24	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Tree Canopy								
Basswood	87	•••	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	74	••••	SI	Perennial	Present	wind	Generalist	0
Sugar maple	74	••••	D	Perennial	Absent	insects	Early spring insect	6
Green ash	32	••	D	Perennial	UNK	wind	Generalist	0
Paper birch	31	••	Di	Perennial	Present	wind	Generalist	0
Bur oak	30	•••	SI	Perennial	Present	wind	Generalist	0
Red maple	28	••	D	Perennial	Absent	insects	Early spring insect	6
Quaking aspen	20	•••	D	Perennial	Present	wind	Generalist	0
Big-toothed aspen	17	••	D	Perennial	Present	wind	Generalist	0
Bitternut hickory	12	••	UNK	Perennial	Present	wind	Generalist	0
Ironwood	11	•	UNK	Perennial	Present	wind	Generalist	0
Blue beech	-	-	UNK	Perennial	Present	wind	Generalist	0
Black cherry	-	-	SI	Perennial	Present	insects	Early spring insect	5
Tree Subcanopy								
Basswood	64	••	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	17	•••	SI	Perennial	Present	wind	Generalist	0
Sugar maple	91	••••	D	Perennial	Absent	insects	Early spring insect	6
Green ash	16	•	D	Perennial	UNK	wind	Generalist	0
Paper birch	14	•	Di	Perennial	Present	wind	Generalist	0
Bur oak	13	••	SI	Perennial	Present	wind	Generalist	0
Red maple	28	••	D	Perennial	Absent	insects	Early spring insect	6
Quaking aspen	8	•	D	Perennial	Present	wind	Generalist	0
Big-toothed aspen	-	-	D	Perennial	Present	wind	Generalist	0

Bitternut hickory	12	••	UNK	Perennial	Present	wind	Generalist	0
Ironwood	77	•••	UNK	Perennial	Present	wind	Generalist	0
Blue beech	28	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	-	-	SI	Perennial	Present	insects	Early spring insect	5
Tree Shrub Layer								
Basswood	73	•	SI	Perennial	Absent	insects	Generalist	5
Northern red oak	67	•	SI	Perennial	Present	wind	Generalist	0
Sugar maple	88	•••	D	Perennial	Absent	insects	Early spring insect	6
Green ash	44	•	D	Perennial	UNK	wind	Generalist	0
Paper birch	-	-	Di	Perennial	Present	wind	Generalist	0
Bur oak	15	•	SI	Perennial	Present	wind	Generalist	0
Red maple	47	•	D	Perennial	Absent	insects	Early spring insect	6
Quaking aspen	28	•	D	Perennial	Present	wind	Generalist	0
Big-toothed aspen	13	•	D	Perennial	Present	wind	Generalist	0
Bitternut hickory	33	•	UNK	Perennial	Present	wind	Generalist	0
Ironwood	69	•	UNK	Perennial	Present	wind	Generalist	0
Blue beech	35	•	UNK	Perennial	Present	wind	Generalist	0
Black cherry	30	•	SI	Perennial	Present	insects	Early spring insect	5

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