

MHn45 Northern Mesic Hardwood (Cedar) Forest Pollinator Resources

Mesic hardwood and hardwood-conifer forests on sandy-loam soils in fireprotected sites on rugged, scoured bedrock terrain.

Examples of insect pollinators (and their associated host plants in parentheses) that use MHn45 include:

Bees:

Andrena melanochroa (Rosaceae)

Hylaeus sparsus (Apiaceae)

Andrena persimulata (Cornus [Swida])

Butterflies:

Erynnis icelus (Populus)

Phyciodes tharos (*Eurybia macrophylla*)

Argynnis atlantis (Viola)

Moths:

Lithophane innominata (*Acer saccharum*)

Eosphropteryx thyatyroides (*Eosphropteryx thyatyroides*)

Phyllonorycter apparella (*Populus tremuloides*)



Andrena melanochroa (rose miner bee) uses species in the Rosaceae (rose) family as a host plant.
Photo: Michael Veit

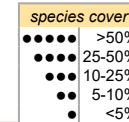


Phyciodes tharos (pearl crescent) uses *Eurybia macrophylla* (large-leaved aster) as a host plant. Photo: Bob Dunlap

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Pollinator Resources Table

MHn45 Class Factsheet. Based on 116 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Bluebead lily (<i>Clintonia borealis</i>)	93	●	SI	Perennial	Present	insects	Generalist	4
Rose twistedstalk (<i>Streptopus roseus</i>)	92	●	UNK	Perennial	Present	insects	Early spring insect	4
Wild sarsaparilla (<i>Aralia nudicaulis</i>)	90	●	D	Perennial	Present	insects	Generalist	4
Canada mayflower (<i>Maianthemum canadense</i>)	85	●	SI	Perennial	Present	insects	Early spring insect	5
Starflower (<i>Trientalis borealis</i>)	83	●	SI/sc	Perennial	Present	insects	Generalist	3
Spinulose shield fern or Glandular wood fern*	78	●	SC	Perennial	Present	wind, water	Generalist	0
Large-leaved aster (<i>Aster macrophyllus</i>)	71	●●	A	Perennial	Present	insects	Generalist	2
Sweet-scented bedstraw (<i>Galium triflorum</i>)	70	●	UNK	Perennial	Present	insects	Generalist	3
Lady fern (<i>Athyrium filix-femina</i>)	60	●	SC	Perennial	Present	wind, water	Generalist	0
Red or White baneberry (<i>Actaea rubra</i> or <i>A. pachypoda</i>)	58	●	SC	Perennial	Present	insects	Early spring insect	3
Hairy Solomon's seal (<i>Polygonatum pubescens</i>)	54	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Groundpine (<i>Lycopodium dendroideum</i> or <i>L. hickeyi</i>)	53	●	SC	Perennial	Present	wind, water	Generalist	0
Dwarf raspberry (<i>Rubus pubescens</i>)	53	●	SC	Perennial	Present	insects	Generalist	2
Nodding trillium (<i>Trillium cernuum</i>)	49	●	A	Perennial	Present	insects	Early spring insect	3
Shining firmoss (<i>Huperzia lucidula</i>)	47	●	SC	Perennial	Present	wind, water	Generalist	0
Common oak fern (<i>Gymnocarpium dryopteris</i>)	47	●	SC	Perennial	Present	wind, water	Generalist	0
Rugulose or Yellow violet (<i>Viola canadensis</i> or <i>V. pubescens</i>)	41	●●	Varies	Perennial	Present	insects	Varies	Varies
Wood anemone (<i>Anemone quinquefolia</i>)	38	●	UNK	Perennial	Present	insects	Early spring insect	4
Long beech fern (<i>Phegopteris connectilis</i>)	37	●●	SC	Perennial	Present	wind, water	Generalist	0
Alpine enchanter's nightshade (<i>Circaea alpina</i>)	31	●	SC	Perennial	Present	insects	Generalist	2
Carolina spring beauty (<i>Claytonia caroliniana</i>)	30	●●	SC	Perennial	Present	insects	Early spring insect	3
Clayton's sweet cicely (<i>Osmorhiza claytonii</i>)	30	●	D	Perennial	Absent	insects	Generalist	5
Panicled bluebells (<i>Mertensia paniculata</i>)	27	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Rattlesnake fern (<i>Botrychium virginianum</i>)	26	●	SC	Perennial	Present	wind, water	Generalist	0
Big-leaf white violet or Northern white violet**	24	●	Varies	Perennial	Present	insects	Varies	Varies
Jack-in-the-pulpit (<i>Arisaema triphyllum</i>)	22	●	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Dutchman's breeches (<i>Dicentra cucullaria</i>)	17	●●	SI/sc	Perennial	Present	insects	Early spring insect, Somewhat specific insect	4
Bristly clubmoss (<i>Lycopodium annotinum</i>)	17	●●	SC	Perennial	Present	wind, water	Generalist	0
Wild ginger (<i>Asarum canadense</i>)	17	●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Stemless blue violets (<i>Viola</i> spp.)***	17	●	Varies	Perennial	Present	insects	Varies	Varies
Bunchberry (<i>Cornus canadensis</i>)	16	●	SI	Perennial	Present	insects	Generalist	4
Touch-me-not (<i>Impatiens</i> spp.)	16	●	SI/SC	Annual	Absent	insects	Somewhat specific insect	6
Common false Solomon's seal (<i>Smilacina racemosa</i>)	15	●	UNK	Perennial	Present	insects	Early spring insect	4
Grasses and Sedges								
Long-stalked sedge (<i>Carex pedunculata</i>)	61	●●	SC	Perennial	Present	wind	Generalist	0

Mountain rice grass (<i>Oryzopsis asperifolia</i>)	55	●	UNK	Perennial	Absent	wind	Generalist	0
Drooping wood sedge (<i>Carex arctata</i>)	34	●	SC	Perennial	Present	wind	Generalist	0
Bladder sedge (<i>Carex intumescens</i>)	33	●	UNK	Perennial	Present	wind	Generalist	0
Dewey's sedge (<i>Carex deweyana</i>)	32	●	UNK	Perennial	Present	wind	Generalist	0
Fine-nerved sedge (<i>Carex leptonevia</i>)	20	●	UNK	Perennial	Present	wind	Generalist	0
Drooping woodreed (<i>Cinna latifolia</i>)	19	●	UNK	Perennial	Weakly	wind	Generalist	0
Pennsylvania sedge (<i>Carex pennsylvanica</i>)	16	●	SC	Perennial	Present	wind	Generalist	0
Low Shrubs								
Red raspberry (<i>Rubus idaeus</i>)	29	●	SC	Perennial	Present	insects	Generalist	4
Lowbush blueberry (<i>Vaccinium angustifolium</i>)	18	●	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	2
Shrubs								
Mountain maple (<i>Acer spicatum</i>)	88	●●●	SI	Perennial	Absent	insects	Early spring insect	6
Beaked hazelnut (<i>Corylus cornuta</i>)	75	●●●	Di	Perennial	Present	wind	Generalist	0
Chokecherry (<i>Prunus virginiana</i>)	59	●	SI	Perennial	Present	insects	Early spring insect	5
Fly honeysuckle (<i>Lonicera canadensis</i>)	56	●	SC	Perennial	Absent	insects	Somewhat specific insect	4
Pagoda dogwood (<i>Cornus alternifolia</i>)	36	●	UNK	Perennial	Present	insects	Generalist	3
Swamp red currant (<i>Ribes triste</i>)	35	●	SI	Perennial	Present	insects	Generalist	4
Juneberries (<i>Amelanchier</i> spp.)	31	●	Varies	Perennial	Present	insects	Early spring insect	Varies
Red-berried elder (<i>Sambucus racemosa</i>)	30	●	UNK	Perennial	Present	insects	Generalist	3
Canada yew (<i>Taxus canadensis</i>)	11	●	UNK	Perennial	Absent	wind	Generalist	0
Tree Canopy								
Sugar maple	79	●●●●	D	Perennial	Absent	insects	Early spring insect	6
Yellow birch	46	●●●	Di	Perennial	Present	wind	Generalist	0
White spruce	41	●	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	38	●●●	Di	Perennial	Present	wind	Generalist	0
White cedar	35	●●●	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	19	●●	UNK	Perennial	Absent	wind	Generalist	0
Red maple	16	●●	D	Perennial	Absent	insects	Early spring insect	6
Basswood	11	●●●	SI	Perennial	Absent	insects	Generalist	5
White pine	8	●●●	SI	Perennial	Absent	wind	Generalist	0
Quaking aspen	7	●●●	D	Perennial	Present	wind	Generalist	0
Mountain ashes	1	●	A	Perennial	Weakly	insects	Generalist	2
Tree Subcanopy								
Sugar maple	83	●●●●	D	Perennial	Absent	insects	Early spring insect	6
Yellow birch	31	●●	Di	Perennial	Present	wind	Generalist	0
White spruce	31	●	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	19	●●●	Di	Perennial	Present	wind	Generalist	0
White cedar	28	●●●	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	34	●●	UNK	Perennial	Absent	wind	Generalist	0
Red maple	16	●●	D	Perennial	Absent	insects	Early spring insect	6

Basswood	7	••	SI	Perennial	Absent	insects	Generalist	5
White pine	2	•	SI	Perennial	Absent	wind	Generalist	0
Quaking aspen	4	•	D	Perennial	Present	wind	Generalist	0
Mountain ashes	8	•	A	Perennial	Weakly	insects	Generalist	2
Tree Shrub Layer								
Sugar maple	86	••••	D	Perennial	Absent	insects	Early spring insect	6
Yellow birch	28	•	Di	Perennial	Present	wind	Generalist	0
White spruce	43	•	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	7	•	Di	Perennial	Present	wind	Generalist	0
White cedar	12	•	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	68	•	UNK	Perennial	Absent	wind	Generalist	0
Red maple	25	••	D	Perennial	Absent	insects	Early spring insect	6
Basswood	9	•	SI	Perennial	Absent	insects	Generalist	5
White pine	6	•	SI	Perennial	Absent	wind	Generalist	0
Quaking aspen	6	•	D	Perennial	Present	wind	Generalist	0
Mountain ashes	50	•	A	Perennial	Weakly	insects	Generalist	2

*Spinulose shield fern or Glandular wood fern (*Dryopteris carthusiana* or *D. intermedia*); ** Big-leaf white violet or Northern white violet (*Viola blanda* or *V. macloskeyi*); ***Stemless blue violets (*Viola sororia*, *V. nephrophylla*, and similar *Viola* spp.).