# MHn47 Northern Rich Mesic Hardwood Forest Pollinator Resources

Mesic hardwood forests on well-drained to somewhat poorly drained, rich loamy soils on glacial drift and till in areas of undulating to hummocky topography.

## Examples of insect pollinators (and their associated host plants in parentheses) that use MHn47 include:

#### **Bees:**

Andrena melanochroa (Rosaceae) Andrena persimulata (Cornus [Swida]) Colletes simulans (Solidago)

#### **Butterflies:**

Euphyes dion (Carex) Oeneis macounii (Oryzopsis asperifolia) Polygonia progne (Ribes) Argynnis atlantis (Viola)

#### Moths:

Lithophane innominata (Acer saccharum) Dichomeris bilobella (Solidago flexicaulis) Choristoneura fumiferana (Abies balsamea)



Colletes simulans (spine-shouldered cellophane bee) uses Solidago (goldenrod) species as a host plant. Photo: Heather Holm



Oeneis macounii (Canada Arctic) uses Oryzopsis asperifolia (roughleaf ricegrass) as a host plant. Photo: Kyle Johnson



### MHn47 Northern Rich Mesic Hardwood Forest

#### **Pollinator Resources Table**

MHn47 Class Factsheet. Based on 112 plots. November 2024





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Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Lady fern (Athyrium filix-femina)	91	•	SC	Perennial	Present	wind, water	Generalist	0
Clayton's sweet cicely (Osmorhiza claytonii)	84	•	D	Perennial	Absent	insects	Generalist	5
Hairy Solomon's seal (Polygonatum pubescens)	79	•	UNK	Perennial	Present	insects	Somewhat specific insect	4
Wild sarsaparilla (Aralia nudicaulis)	78	••	D	Perennial	Present	insects	Generalist	4
Rose twistedstalk (Streptopus roseus)	78	•	UNK	Perennial	Present	insects	Early spring insect	4
Canada mayflower (Maianthemum canadense)	74	•	SI	Perennial	Present	insects	Early spring insect	5
Rattlesnake fern (Botrychium virginianum)	74	•	SC	Perennial	Present	wind, water	Generalist	0
Jack-in-the-pulpit (Arisaema triphyllum)	73	•	SI	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Large-flowered bellwort (Uvularia grandiflora)	70	••	SI	Perennial	Present	insects	Early spring insect	5
Large-leaved aster (Aster macrophyllus)	69	•	Α	Perennial	Present	insects	Generalist	2
Rugulose or Yellow violet (Viola canadensis or V. pubescens)	67	•	Varies	Perennial	Present	insects	Varies	Varies
Wood anemone (Anemone quinquefolia)	65	•	UNK	Perennial	Present	insects	Early spring insect	4
Sweet-scented bedstraw (Galium triflorum)	61	•	UNK	Perennial	Present	insects	Generalist	3
American spikenard (Aralia racemosa)	60	•	UNK	Perennial	Present	insects	Generalist	3
Bluebead lily (Clintonia borealis)	56	•	SI	Perennial	Present	insects	Generalist	4
Starflower (Trientalis borealis)	54	•	SI/sc	Perennial	Present	insects	Generalist	3
Wild ginger (Asarum canadense)	53	•	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Spinulose shield fern or Glandular wood fern*	51	•	SC	Perennial	Present	wind, water	Generalist	0
Red baneberry (Actaea rubra)	48	•	SC	Perennial	Present	insects	Early spring insect	3
Zigzag goldenrod (Solidago flexicaulis)	44	•	SI	Perennial	Present	insects	Generalist	4
Blue cohosh (Caulophyllum thalictroides)	44	•	SC/SI	Perennial	Present	insects	Early spring insect	4
Common oak fern (Gymnocarpium dryopteris)	43	•	SC	Perennial	Present	wind, water	Generalist	0
Round-lobed hepatica (Anemone americana)	43	•	SC	Perennial	Present	insects	Early spring insect	3
Dwarf raspberry (Rubus pubescens)	40	•	SC	Perennial	Present	insects	Generalist	2
Nodding trillium (Trillium cernuum)	39	•	Α	Perennial	Present	insects	Early spring insect	3
Common false Solomon's seal (Smilacina racemosa)	38	•	UNK	Perennial	Present	insects	Early spring insect	4
Groundpine (Lycopodium dendroideum or L. hickeyi)	31	•	SC	Perennial	Present	wind, water	Generalist	0
Pale bellwort (Uvularia sessilifolia)	30	•	SI	Perennial	Present	insects	Early spring insect	5
Bloodroot (Sanguinaria canadensis)	29	•	SC	Perennial	Present	insects	Early spring insect	3
Early meadow-rue (Thalictrum dioicum)	27	•	SI	Perennial	Present	wind	Generalist	0
Alpine enchanter's nightshade (Circaea alpina)	26	•	SC	Perennial	Present	insects	Generalist	2
Ostrich fern (Matteuccia struthiopteris)	24	•	SC	Perennial	Present	wind, water	Generalist	0
Wild leek (Allium tricoccum)	23	•	SC	Perennial	Present	insects	Generalist	2
Maryland black snakeroot (Sanicula marilandica)	23	•	UNK	Perennial	Absent	insects	Generalist	4
Meadow horsetail (Equisetum pratense)	21	•	SC	Perennial	Present	wind, water	Generalist	0
Grasses and Sedges								
Pennsylvania sedge (Carex pensylvanica)	76	•••	SC	Perennial	Present	wind	Generalist	0

Mountain rice grass (Oryzopsis asperifolia)	74	•	UNK	Perennial	Absent	wind	Generalist	0
Long-stalked sedge (Carex pedunculata)	64	••	SC	Perennial	Present	wind	Generalist	0
Dewey's sedge (Carex deweyana)	33	•	UNK	Perennial	Present	wind	Generalist	0
Drooping wood sedge (Carex arctata)	32	•	SC	Perennial	Present	wind	Generalist	0
Bearded shorthusk (Brachyelytrum erectum)	27	•	UNK	Perennial	Present	wind	Generalist	0
Shrubs								
Beaked hazelnut (Corylus cornuta)	69	••	Di	Perennial	Present	wind	Generalist	0
Fly honeysuckle (Lonicera canadensis)	69	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Chokecherry (Prunus virginiana)	67	•	SI	Perennial	Present	insects	Early spring insect	5
Mountain maple (Acer spicatum)	63	••	SI	Perennial	Absent	insects	Early spring insect	6
Prickly gooseberry (Ribes cynosbati)	51	•	SI	Perennial	Present	insects	Generalist	4
Pagoda dogwood (Cornus alternifolia)	49	•	UNK	Perennial	Present	insects	Generalist	3
Leatherwood (Dirca palustris)	42	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Swamp red currant (Ribes triste)	21	•	SI	Perennial	Present	insects	Generalist	4
Tree Canopy								
Sugar maple	98	••••	D	Perennial	Absent	insects	Early spring insect	6
Basswood	93	•••	SI	Perennial	Absent	insects	Generalist	5
Yellow birch	43	•••	Di	Perennial	Present	wind	Generalist	0
Paper birch	24	••	Di	Perennial	Present	wind	Generalist	0
Northern red oak	19	••	SI	Perennial	Present	wind	Generalist	0
Black ash	19	••	D	Perennial	Absent	wind	Generalist	0
Ironwood	18	••	UNK	Perennial	Present	wind	Generalist	0
White cedar	10	••	UNK	Perennial	Absent	wind	Generalist	0
Red maple	9	••	D	Perennial	Absent	insects	Early spring insect	6
Green ash	9	••	D	Perennial	UNK	wind	Generalist	0
Balsam fir	6	•	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	5	••	D	Perennial	Present	wind	Generalist	0
White pine	4	•••	SI	Perennial	Absent	wind	Generalist	0
American elm	4	•	Di	Perennial	Absent	wind	Generalist	0
Tree Subcanopy								
Sugar maple	96	••••	D	Perennial	Absent	insects	Early spring insect	6
Basswood	54	••	SI	Perennial	Absent	insects	Generalist	5
Yellow birch	15	••	Di	Perennial	Present	wind	Generalist	0
Paper birch	6	•	Di	Perennial	Present	wind	Generalist	0
Northern red oak	8	•	SI	Perennial	Present	wind	Generalist	0
Black ash	12	•	D	Perennial	Absent	wind	Generalist	0
Ironwood	54	•••	UNK	Perennial	Present	wind	Generalist	0
White cedar	4	•	UNK	Perennial	Absent	wind	Generalist	0
Red maple	11	•	D	Perennial	Absent	insects	Early spring insect	6
Green ash	4	•	D	Perennial	UNK	wind	Generalist	0

Balsam fir	10	•	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	-	-	D	Perennial	Present	wind	Generalist	0
White pine	-	-	SI	Perennial	Absent	wind	Generalist	0
American elm	9	••	Di	Perennial	Absent	wind	Generalist	0
Tree Shrub Layer								
Sugar maple	97	••••	D	Perennial	Absent	insects	Early spring insect	6
Basswood	78	•	SI	Perennial	Absent	insects	Generalist	5
Yellow birch	13	•	Di	Perennial	Present	wind	Generalist	0
Paper birch	3	•	Di	Perennial	Present	wind	Generalist	0
Northern red oak	48	•	SI	Perennial	Present	wind	Generalist	0
Black ash	41	•	D	Perennial	Absent	wind	Generalist	0
Ironwood	67	••	UNK	Perennial	Present	wind	Generalist	0
White cedar	-	-	UNK	Perennial	Absent	wind	Generalist	0
Red maple	19	•	D	Perennial	Absent	insects	Early spring insect	6
Green ash	13	•	D	Perennial	UNK	wind	Generalist	0
Balsam fir	47	•	UNK	Perennial	Absent	wind	Generalist	0
Quaking aspen	16	•	D	Perennial	Present	wind	Generalist	0
White pine	4	•	SI	Perennial	Absent	wind	Generalist	0
American elm	38	••	Di	Perennial	Absent	wind	Generalist	0

<sup>\*</sup> Spinulose shield fern or Glandular wood fern (*Dryopteris carthusiana* or *D. intermedia*)