

UPn23 Northern Mesic Prairie Pollinator Resources

Grass-dominated but forb-rich herbaceous communities on somewhat poorly drained to well-drained loam soils mainly formed in unsorted glacial till, sometimes in a thin loess layer over till, and locally in lacustrine sediments and outwash deposits. Communities in this class occur primarily on level to gently rolling sites. Drought stress is irregular in occurrence and usually not severe.

Examples of insect pollinators (and their associated host plants in parentheses) that use UPn23 include:

Bees:

Andrena ziziae (*Zizia*)

Macropis nuda (*Lysimachia*)

Colletes brevicornis (*Campanula*)

Butterflies:

Chlosyne nycteis (*Rudbeckia hirta*)

Chlosyne gorgone (*Lysimachia quadriflora*)

Papilio polyxenes (*Zizia aurea*)

Moths:

Dichomeris flavocostella (*Solidago rigida*)

Eugonobapta nivosaria (*Thalictrum dasycarpum*)

Synchlora aerate (*Rudbeckia hirta*)

Schinia Indiana (*Phlox pilosa*)



Andrena ziziae (golden-alexanders mining bee) uses *Zizia* (Alexanders) species as a host plant.
Photo: Heather Holm



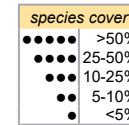
Synchlora aerate (wavy-lined emerald moth) uses *Rudbeckia hirta* (black-eyed Susan) as a host plant.

Photo: Kyle Johnson

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Pollinator Resources Table

UPn23 Class Factsheet. Based on 110 plots. November, 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Northern bedstraw (<i>Galium boreale</i>)	88	●●	SI	Perennial	Present	insects	Generalist	4
Purple prairie clover (<i>Dalea purpurea</i>)	88	●	SC	Perennial	Present	insects	Generalist	2
Canada goldenrod (<i>Solidago canadensis</i>)	85	●●	SI	Perennial	Present	insects	Generalist	4
Heath aster (<i>Aster ericoides</i>)	84	●●	SI	Perennial	Present	insects	Generalist	4
Stiff goldenrod (<i>Solidago rigida</i>)	82	●	SI	Perennial	Present	insects	Generalist	4
Maximilian's sunflower (<i>Helianthus maximiliani</i>)	75	●	SI	Perennial	Present	insects	Generalist	4
Heart-leaved alexanders (<i>Zizia aptera</i>)	75	●	SC	Perennial	Absent	insects	Generalist	3
Black-eyed Susan (<i>Rudbeckia hirta</i>)	74	●	SI	Biennial or	Absent	insects	Generalist	6
Tall meadow-rue (<i>Thalictrum dasycarpum</i>)	71	●●	D	Perennial	Present	wind	Generalist	0
Smooth blue aster (<i>Aster laevis</i>)	62	●	SI	Perennial	Present	insects	Generalist	4
Common strawberry (<i>Fragaria virginiana</i>)	57	●	SC	Perennial	Present	insects	Early spring insect	3
White camass (<i>Zigadenus elegans</i>)	56	●	SI	Perennial	Present	insects	Generalist	4
Virginia mountain mint (<i>Pycnanthemum virginianum</i>)	55	●	SC	Perennial	Present	insects	Generalist	2
Gray goldenrod (<i>Solidago nemoralis</i>)	51	●	SI	Perennial	Present	insects	Generalist	4
Golden alexanders (<i>Zizia aurea</i>)	51	●	SC	Perennial	Absent	insects	Generalist	3
Harebell (<i>Campanula rotundifolia</i>)	48	●	± SI	Perennial	Present	insects	Generalist	4
Bastard toadflax (<i>Comandra umbellata</i>)	47	●	SC	Perennial	Present	insects	Early spring insect	3
Wild bergamot (<i>Monarda fistulosa</i>)	44	●	SC	Perennial	Present	insects	Somewhat specific insect	3
Flodman's thistle (<i>Cirsium flodmanii</i>)	43	●	GD	Perennial	Weakly	insects	Generalist	4
Hoary puccoon (<i>Lithospermum canescens</i>)	41	●	H	Perennial	Absent	insects	Somewhat specific insect	6
White aster-like goldenrod (<i>Solidago ptarmicoides</i>)	40	●	SI	Perennial	Present	insects	Generalist	4
Stiff sunflower (<i>Helianthus pauciflorus</i>)	35	●	SI	Perennial	Present	insects	Generalist	4
Northern plains blazing star (<i>Liatris ligulistylis</i>)	35	●	UNK	Perennial	Present	insects	Generalist	3
Rough blazing star (<i>Liatris aspera</i>)	34	●	SI	Perennial	Present	insects	Generalist	4
Clasping dogbane (<i>Apocynum sibiricum</i>)	34	●	SI	Perennial	Present	insects	Generalist	4
Giant or Sawtooth sunflower (<i>Helianthus giganteus</i> or <i>H. grosseserratus</i>)	33	●●	SI	Perennial	Present	insects	Generalist	4
Pale-spiked lobelia (<i>Lobelia spicata</i>)	32	●	SC	Perennial	Weakly	insects	Somewhat specific insect	3
Glaucous false dandelion (<i>Agoseris glauca</i>)	32	●	GD	Perennial	Absent	insects	Generalist	5
Wood lily (<i>Lilium philadelphicum</i>)	32	●	SI	Perennial	Present	insects	Generalist	4
Prairie loosestrife (<i>Lysimachia quadriflora</i>)	31	●	SI	Perennial	Present	insects	Generalist	4
Yarrow (<i>Achillea millefolium</i>)	31	●	SI	Perennial	Present	insects	Generalist	4
Prairie wild onion (<i>Allium stellatum</i>)	31	●	SC	Perennial	Present	insects	Generalist	2
Wild licorice (<i>Glycyrrhiza lepidota</i>)	30	●●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Golden or false golden ragwort (<i>Senecio aureus</i> or <i>S. pseudoaureus</i>)	29	●	SI	Perennial	Varies	insects	Generalist	Varies
Silverleaf scurfpea (<i>Pediomelum argophyllum</i>)	29	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Smooth rattlesnakeroot (<i>Prenanthes racemosa</i>)	29	●	UNK	Perennial	Absent	insects	Somewhat specific insect	5
Long-headed thimbleweed (<i>Anemone cylindrica</i>)	28	●	SC	Perennial	Present	insects	Generalist	2

Grass-leaved goldenrod (<i>Euthamia graminifolia</i>)	26	●	A	Perennial	Present	insects	Generalist	2
Wood betony (<i>Pedicularis canadensis</i>)	25	●	UNK	Perennial	Present	insects	Buzz pollination	5
Indian paintbrush (<i>Castilleja coccinea</i>)	25	●	SC	Annual or	Present	insects	Early spring insect, Somewhat specific insect	5
Prairie phlox (<i>Phlox pilosa</i>)	24	●	SI	Perennial	Absent	insects	Early spring insect, Somewhat specific insect	6
White prairie clover (<i>Dalea candida</i>)	22	●	UNK	Perennial	Present	insects	Generalist	3
Marsh vetchling (<i>Lathyrus palustris</i>)	22	●	SI	Perennial	Present	insects	Somewhat specific insect	5
White sage (<i>Artemisia ludoviciana</i>)	20	●	SC	Perennial	Present	wind	Generalist	0
Great blazing star (<i>Liatris pycnostachya</i>)	20	●●	UNK	Perennial	Present	insects	Generalist	3
Grasses and Sedges								
Big bluestem (<i>Andropogon gerardii</i>)	97	●●●●	SI	Perennial	Present	wind	Generalist	0
Prairie dropseed (<i>Sporobolus heterolepis</i>)	69	●●●	SC	Perennial	Absent	wind	Generalist	0
Indian grass (<i>Sorghastrum nutans</i>)	64	●●●	SI	Perennial	Present	wind	Generalist	0
Little bluestem (<i>Schizachyrium scoparium</i>)	62	●●●	UNK	Perennial	Present	wind	Generalist	0
Prairie cordgrass (<i>Spartina pectinata</i>)	54	●●	UNK	Perennial	Present	wind	Generalist	0
Slender wheatgrass (<i>Elymus trachycaulus</i>)	53	●	UNK	Perennial	Weakly	wind	Generalist	0
Mat muhly grass (<i>Muhlenbergia richardsonis</i>)	52	●●●	UNK	Perennial	Present	wind	Generalist	0
Junegrass (<i>Koeleria pyramidata</i>)	51	●	SI	Perennial	Absent	wind	Generalist	0
Kalm's brome (<i>Bromus kalmii</i>)	41	●	SC	Perennial	Absent	wind	Generalist	0
Switchgrass (<i>Panicum virgatum</i>)	36	●●	SC	Perennial	Present	wind	Generalist	0
Clustered muhly grass (<i>Muhlenbergia glomerata</i>)	36	●	UNK	Perennial	Present	wind	Generalist	0
Porcupine grass (<i>Stipa spartea</i>)	35	●●	UNK	Perennial	Absent	wind	Generalist	0
Rigid sedge (<i>Carex tetanica</i>)	34	●	UNK	Perennial	Present	wind	Generalist	0
Tufted hair grass (<i>Deschampsia cespitosa</i>)	29	●●	UNK	Perennial	Absent	wind	Generalist	0
Narrow reed grass (<i>Calamagrostis stricta</i>)	25	●●	A	Perennial	Present	wind	Generalist	0
Leiberg's panic grass (<i>Panicum leibergii</i>)	24	●●	UNK	Perennial	Present	wind	Generalist	0
Semi-Shrubs								
Prairie rose (<i>Rosa arkansana</i>)	48	●	SC	Perennial	Present	insects	Generalist	2
Fragrant false indigo (<i>Amorpha nana</i>)	26	●	UNK	Perennial	Present	insects	Somewhat specific insect	4
Leadplant (<i>Amorpha canescens</i>)	23	●●	SC	Perennial	Present	insects	Generalist	2
Shrubs								
Bebb's willow (<i>Salix bebbiana</i>)	26	●●	D	Perennial	Present	insects	Early spring insect	5
Shrubby cinquefoil (<i>Potentilla fruticosa</i>)	21	●●	SC	Perennial	Absent	insects	Generalist	3
Trees								
Quaking aspen	17	●●●	D	Perennial	Present	wind	Generalist	0