

UPn13 Northern Dry Savanna Pollinator Resources

Sparsely treed and often shrubby communities with grass-dominated herbaceous ground layers on nearly level to steeply sloping sites with droughty soils. Moderate growing-season moisture deficits occur during most years, and severe moisture deficits are frequent, especially during periodic regional droughts. Trees are open grown, typically small, and gnarled. Historically, fire occurred every few years.

Examples of insect pollinators (and their associated host plants in parentheses) that use UPn13 include:

Bees:

Andrena placata (*Solidago*)

Colletes andrewsi (*Heuchera richardsonii*)

Colletes robertsonii (*Dalea*)

Butterflies:

Danaus plexippus (*Asclepias*)

Polites origenes (*Schizachyrium scoparium*)

Argynnis cybele (*Viola*)

Moths:

Sitochroa chortalis (*Comandra umbellata*)

Chlorochlamys chloroleucaria (*Achillea millefolium*)

Pyrausta generosa (*Monarda fistulosa*)

Protoschinia nuchalis (*Artemisia dracunculus*)



Colletes andrewsi uses *Heuchera richardsonii* (prairie alumroot) as a host plant. Photo: Heather Holm



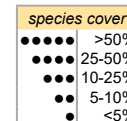
Protoschinia nuchalis (spotted sage moth) uses *Artemisia dracunculus* (tarragon) as a host plant.

Photo: Bob Dunlap

UPn13 Northern Dry Savanna

Pollinator Resources Table

UPn13 Class Factsheet. Based on 14 plots. November 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
White sage (<i>Artemisia ludoviciana</i>)	93	●●	SC	Perennial	Present	wind	Generalist	0
Gray goldenrod (<i>Solidago nemoralis</i>)	93	●●	SI	Perennial	Present	insects	Generalist	4
Yarrow (<i>Achillea millefolium</i>)	79	●	SI	Perennial	Present	insects	Generalist	4
Hoary puccoon (<i>Lithospermum canescens</i>)	71	●	H	Perennial	Absent	insects	Somewhat specific insect	6
Smooth blue aster (<i>Aster laevis</i>)	71	●	SI	Perennial	Present	insects	Generalist	4
Rough blazing star (<i>Liatris aspera</i>)	71	●	SI	Perennial	Present	insects	Generalist	4
Missouri goldenrod (<i>Solidago missouriensis</i>)	64	●●	SI	Perennial	Present	insects	Generalist	4
Silky aster (<i>Aster sericeus</i>)	64	●●	SI	Perennial	Present	insects	Generalist	4
Field pussytoes (<i>Antennaria neglecta</i> or <i>A. neodioica</i>)	64	●	A	Perennial	Present	wind	Generalist	0
Northern bedstraw (<i>Galium boreale</i>)	64	●	SI	Perennial	Present	insects	Generalist	4
Bastard toad-flax (<i>Comandra umbellata</i>)	64	●	SC	Perennial	Present	insects	Early spring insect	3
Starry false Solomon's seal (<i>Smilacina stellata</i>)	64	●	UNK	Perennial	Present	insects	Early spring insect	4
Tall cinquefoil (<i>Potentilla arguta</i>)	64	●	A	Perennial	Present	insects	Generalist	2
Tall wormwood or Tarragon (<i>Artemisia campestris</i> or <i>A. dracunculus</i>)	57	●	Varies	Perennial	Varies	wind	Generalist	0
Wild bergamot (<i>Monarda fistulosa</i>)	57	●	SC	Perennial	Present	insects	Somewhat specific insect	3
Harebell (<i>Campanula rotundifolia</i>)	57	●	± SI	Perennial	Present	insects	Generalist	4
Spreading dogbane (<i>Apocynum androsaemifolium</i>)	50	●●	SI	Perennial	Present	insects	Generalist	4
Veiny meadow-rue (<i>Thalictrum venulosum</i>)	50	●●	D	Perennial	Present	wind	Generalist	0
Stiff goldenrod (<i>Solidago rigida</i>)	50	●●	SI	Perennial	Present	insects	Generalist	4
Prairie wild onion (<i>Allium stellatum</i>)	50	●	SC	Perennial	Present	insects	Generalist	2
White prairie clover (<i>Dalea candida</i>)	50	●	UNK	Perennial	Present	insects	Generalist	3
Purple prairie clover (<i>Dalea purpurea</i>)	50	●	SC	Perennial	Present	insects	Generalist	2
Field chickweed (<i>Cerastium arvense</i>)	50	●	GD	Perennial	Weakly	insects	Generalist	4
Plantain-leaved pussytoes (<i>Antennaria plantaginifolia</i>)	50	●	A	Perennial	Present	wind	Generalist	0
Stiff sunflower (<i>Helianthus pauciflorus</i>)	43	●●	SI	Perennial	Present	insects	Generalist	4
Oval-leaved milkweed (<i>Asclepias ovalifolia</i>)	43	●	SI	Perennial	Present	insects	Somewhat specific insect	5
American vetch (<i>Vicia americana</i>)	43	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Alumroot (<i>Heuchera richardsonii</i>)	43	●	SI	Perennial	Present	insects	Generalist	4
Blue giant hyssop (<i>Agastache foeniculum</i>)	36	●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Heath aster (<i>Aster ericoides</i>)	36	●	SI	Perennial	Present	insects	Generalist	4
Long-headed thimbleweed (<i>Anemone cylindrica</i>)	36	●	SC	Perennial	Present	insects	Generalist	2
Slender beard tongue (<i>Penstemon gracilis</i>)	36	●	SC	Perennial	Present	insects	Generalist	2
Daisy fleabane (<i>Erigeron strigosus</i>)	36	●	A	Annual, bi-	Present	insects	Generalist	4
Pale vetchling (<i>Lathyrus ochroleucus</i>)	36	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Canada goldenrod (<i>Solidago canadensis</i>)	36	●	SI	Perennial	Present	insects	Generalist	4
Rock spikemoss (<i>Selaginella rupestris</i>)	29	●●	SC	Perennial	Present	wind, water	Generalist	0
Prairie smoke (<i>Geum triflorum</i>)	29	●	UNK	Perennial	Present	insects	Early spring insect, Buzz pollination	5

Bearded birdfoot violet (<i>Viola palmata</i>)	29	●	CL flowers present	Perennial	Present	insects	Early spring insect	4
Hoary frostweed (<i>Helianthemum bicknellii</i>)	29	●	CH and CL flowers	Perennial	Present	insects	Generalist	3
Erect, Smooth, or Illinois carrion-flower*	29	●	D	Perennial	Present	insects	Somewhat specific insect	5
Grasses and Sedges								
Big bluestem (<i>Andropogon gerardii</i>)	93	●●●●	SI	Perennial	Present	wind	Generalist	0
Porcupine grass (<i>Stipa spartea</i>)	93	●●●	UNK	Perennial	Absent	wind	Generalist	0
Junegrass (<i>Koeleria pyramidata</i>)	71	●	SI	Perennial	Absent	wind	Generalist	0
Slender wheatgrass (<i>Elymus trachycaulus</i>)	50	●	UNK	Perennial	Weakly	wind	Generalist	0
Sand reed-grass (<i>Calamovilfa longifolia</i>)	43	●●	UNK	Perennial	Present	wind	Generalist	0
Little bluestem (<i>Schizachyrium scoparium</i>)	36	●●●	UNK	Perennial	Present	wind	Generalist	0
Nodding wild rye (<i>Elymus canadensis</i>)	36	●	SC	Perennial	Absent	wind	Generalist	0
Blue grama (<i>Bouteloua gracilis</i>)	29	●●●	A	Perennial	Present	wind	Generalist	0
Sand dropseed (<i>Sporobolus cryptandrus</i>)	29	●	UNK	Perennial	Absent	wind	Generalist	0
Blunt sedge (<i>Carex obtusata</i>)	29	●	UNK	Perennial	Present	wind	Generalist	0
Kalm's brome (<i>Bromus kalmii</i>)	29	●	SC	Perennial	Absent	wind	Generalist	0
Prairie dropseed (<i>Sporobolus heterolepis</i>)	29	●	SC	Perennial	Absent	wind	Generalist	0
Pennsylvania sedge (<i>Carex pennsylvanica</i> var. <i>pennsylvanica</i>)	21	●●	SC	Perennial	Present	wind	Generalist	0
Schweinitz's nut-sedge (<i>Cyperus schweinitzii</i>)	21	●	UNK	Perennial	Present	wind	Generalist	0
Semi-Shrubs								
Poison ivy (<i>Toxicodendron rydbergii</i>)	64	●●	D	Perennial	Present	insects	Generalist	4
Prairie rose (<i>Rosa arkansana</i>)	64	●	SC	Perennial	Present	insects	Generalist	2
Leadplant (<i>Amorpha canescens</i>)	50	●●●	SC	Perennial	Present	insects	Generalist	2
Sage wormwood (<i>Artemisia frigida</i>)	21	●	UNK	Perennial	Present	wind	Generalist	0
Shrubs								
Snowberry and Wolfberry (<i>Symphoricarpos albus</i> or <i>S. occidentalis</i>)	64	●●	SC	Perennial	Present	insects	Generalist	2
Saskatoon juneberry (<i>Amelanchier alnifolia</i>)	64	●	UNK	Perennial	Present	insects	Early spring insect	4
American hazelnut (<i>Corylus americana</i>)	57	●●●	Di	Perennial	Present	wind	Generalist	0
Chokecherry (<i>Prunus virginiana</i>)	57	●	SI	Perennial	Present	insects	Early spring insect	5
Sand cherry (<i>Prunus pumila</i>)	36	●	SI	Perennial	Present	insects	Generalist	4
Meadowsweet (<i>Spiraea alba</i>)	29	●	SC	Perennial	Present	insects	Generalist	2
Prairie willow (<i>Salix humilis</i>)	21	●	D	Perennial	Present	insects	Early spring insect	5
Creeping juniper (<i>Juniperus horizontalis</i>)	14	●	D	Perennial	Absent	wind	Generalist	0
Tree Canopy								
Bur oak	86	●●●	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	-	-	D	Perennial	Present	wind	Generalist	0
Tree Shrub Layer								
Bur oak	100	●●	SI	Perennial	Present	wind	Generalist	0
Quaking aspen	29	●	D	Perennial	Present	wind	Generalist	0

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