



Seasonal Events at Lost Mound

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Introduction

The Lost Mound Corps of Discovery (LMCD) is an INHS-sponsored program designed to enlist volunteers to document species, seasonal events, and natural changes at specific points of the Lost Mound area. Here we provide some basic information on seasonal events at Lost Mound as a starting point for more detailed efforts.

JANUARY

Birds

- Eagles congregate at any open patches in river

Plants

- Everyone is asleep!

Reptiles/Amphibians

Mammals

- Otter tracks easily identified in fresh snow on frozen river

Seasonal events

- River usually frozen solid; only spring inlets and occasional patches in river open

FEBRUARY

Birds

- waxwings, bluebirds and other birds resort to eating red cedar when little else is available
- northward migration of eagles starts; peak numbers usually in last week of Feb

Plants

- Ice storms create crystal wonderland/deathtrap

Reptiles/Amphibians

- some turtles and frogs tolerate freezing underground

Mammals

- deer browse red cedar when snow covers preferred plants

Seasonal events

- river ice breaks up, eagle watches.
- tracks in fresh snow reveal surprising amount of activity from animals seldom seen (voles, river otters)

MARCH

Birds

- first week: eagles lay eggs
- Red-winged Blackbirds and meadowlarks return to uplands
- Sandhill cranes, pelicans and many ducks return to river
- March 15 turkey vultures return
- woodcocks start aerial displays over the river edge forest in the evening
- owls and RT hawks nesting
- northern shrikes and long-eared owls usually leave by end of month

Plants

- silver maples flower in bottomlands
- early mustards and chickweeds may be found flowering in protected areas of the prairie.

Reptiles/Amphibians

- last week: first frogs and toads calling

Mammals

Seasonal events

- river ice breaks up (if not in Feb), provides many winter killed fish for eagle foraging

APRIL

Birds

- Loggerhead shrike, Eastern Phoebe and tree swallows returns
- Bluebirds stake out nest cavities
- April 20 grasshopper sparrows return
- eagle eggs hatch
- last week: early grassland nesters: horned lark, vesper sparrow, meadowlarks

Plants

- first flowers: sand cress, stiff and sun sedges
- black oaks lose leaves within 1-2 days as buds swell

Reptiles/Amphibians

- frogs and toads calling in abundance (W. Chorus frogs, Amer Toad)

Mammals

- shed antlers litter prairie

Insects

- Olympia Marble butterfly emergence coincident with sand cress flowering

Seasonal events

- prescribed burns reveal intricate pathways of voles

MAY

Birds

- by now all breeding birds have returned and most migrants passed on through
- 3rd + 4th weeks: nesting starts for most passerines
- Shrikes begin showing their larder on barb wire fences and honey locust

Plants

- puccoon, beach heather, red root, spiderwort, bird's-foot violet

Reptiles/Amphibians

- Snakes and turtles emerging, courtship begins

Insects

- Regal Fritillary caterpillars hatch and feed voraciously on flowering birds foot violets.

Mammals

- Several species of bats have returned to roost and breed in old buildings and forests (little and big brown bats, red bats).

Seasonal events

- Spring Bird Count (Saturday between May 5-10)
- river at highest level of year

JUNE

Birds

- about 110 species of breeding birds
- eaglets fledge

Plants

- common and fragile prickly pear cactus, pale purple coneflower, goat's rue flowering
- blue flag (iris) flowers in wetlands

Reptiles/Amphibians

- turtles nesting along river edge dunes, while snakes, racerunners and box turtles nest in the prairies

Mammals

- young badgers emerge from dens

Insects

- regal fritillary butterflies hatch

Seasonal events

- Summer Breeding Bird Census (2nd Friday)

JULY

Birds

- Most of the young have fledged, some second nesting occurs.

Plants

- poppy mallow in the prairies, water lily and buttonbush in the wetlands.

Reptiles/Amphibians

- breeding complete.

Mammals

Seasonal events

- 4th of July Butterfly count

AUGUST

Birds

- upland sandpipers leave for Argentina
- young kestrels are commonly seen honing their hunting skills

Plants

- rough blazing star, stiff, showy and field goldenrods flourish

Reptiles/Amphibians

- ornate box turtles spend the heat of the day in shallow burrows

Mammals

Insects

- dragonflies and butterflies are at their peak.

Seasonal events

SEPTEMBER

Birds

- nighthawks begin to mass for migration

Plants

- cardinal flower, obedient plant flower along the floodplain edge
- goldenrods, stiff aster, silky aster
- warm season grasses set seed

Reptiles/Amphibians

- eggs hatch and young emerge

Mammals

Seasonal events

- Monarch butterflies congregate on protected cedars and oaks, preparing for their southern migration.

OCTOBER

Birds

- short-eared owls migrate south, stop over at Lost Mound

Plants

- deciduous trees have some color, especially along bluffs

Reptiles/Amphibians

- bullsnakes bask on road on warm mornings, most species are preparing for estivation/hibernation

Mammals

- squirrels harvest nuts from oaks, hickory, and walnut

Seasonal events

- grass seed harvesting

NOVEMBER

Birds

- northern shrikes arrive and stay over winter
- long-eared owls return for wintering

Plants

Reptiles/Amphibians

Mammals

- white-tailed deer begin seasonal rut

Seasonal events

- great time to begin control of woody exotics!

DECEMBER

Birds

- eagles begin to congregate

Plants

Reptiles/Amphibians

Mammals

Seasonal events

- Christmas Bird Count (first Friday of count period Dec 14-Jan 5)
- River starts to freeze

Table 1. Approximate timing of plant flowering in upland habitats at Lost Mound and surrounding areas. List organized by alphabetically by Family and species. Based on information compiled by Amy Symstad (now with USGS).

Explanation of last five columns as follows:

Native: N = native species, I = introduced species.

Freq (frequency): A = abundant (easily found throughout suitable habitat); C = common (found in most areas of appropriate habitat); U = uncommon (patchy distribution or low density in suitable habitat); R = rare (found in less than 10% of suitable habitat); X = listed by Gleason (1910) but not found recently (1995 – 2007).

Habitat: D = disturbed and developed areas; F = forest; P = prairie; S = savanna; Habitat refers to most typical habitat of given species; many species occur in one or more habitats.

Growth Form: F = forb (typical herbaceous flowering plant); G = graminoid (grass, sedge, rush); HV = herbaceous vine; WV = woody vine; S = shrub; T = tree; Blank = non flowering plant.

Lifespan: A = annual (grows from seed and flowers in one calendar year); B = biennial (two-year plant); P = perennial (longer than two years).

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life	
Acanthaceae																	
			+	+	+	+	+	+		Ruellia humilis	Wild Petunia	N	U	S	F	P	
Aceraceae																	
		+	+							Acer negundo	Boxelder	N	U	F	T	P	
		+	+							Acer saccharum	Sugar Maple	N	U	F	T	P	
Adiantaceae																	
										Adiantum pedatum	Maidenhair Fern	N	U	F	fern	P	
Amaranthaceae																	
			+	+	+	+	+			Froelichia floridana var. campestris	Cottonweed	N	U	P	F	A	
			+	+	+	+	+			Froelichia gracilis	Small Cottonweed	I	U	SF	F	A	
Anacardiaceae																	
		+	+							Rhus aromatica var. arenaria	Sand Fragrant Sumac	N	A	P	S	P	
+		+	+							Rhus aromatica var. aromatica	Fragrant Sumac	N	R	S	S	P	
				+	+					Rhus glabra	Smooth Sumac	N	U	F	S	P	
			+	+	+					Toxicodendron radicans	Poison Ivy	N	U	F	WV	P	
Apiaceae																	
			+	+	+	+				Cryptotaenia canadensis	Honewort	N	U	F	F	P	
			+	+	+	+	+	+		Daucus carota	Queen Anne's Lace/Wild Carrot	I	U	SF	F	B	
		+	+	+						Osmorhiza claytonii	Hairy Sweet Cicely	N	U	F	F	P	
		+	+	+						Osmorhiza longistylis	Smooth Sweet Cicely	N	U	F	F	P	
			+	+	+	+	+	+		Pastinaca sativa	Wild Parsnip	I	U	SF	F	B	
			+	+	+	+				Sanicula canadensis	Canadian Black Snakeroot	N	U	F	F	B	
			+	+						Spermolepis inermis	Scaleseed	N?	U	P	F	A	
Araceae																	
		+	+							Arisaema triphyllum	Jack-in-the-Pulpit	N	U	F	F	P	
Araliaceae																	
			+	+						Aralia nudicaulis	Wild Sasparilla	N	U	F	F	P	
Asclepiadaceae																	
			+	+	+					Asclepias amplexicaulis	Sand Milkweed	N	U	P	F	P	
			+	+	+	+				Asclepias syriaca	Common Milkweed	N	U	SF	F	P	
			+	+	+	+	+			Asclepias tuberosa	Butterflyweed	N	R	S	F	P	
			+	+	+	+	+			Asclepias verticillata	Horsetail/Whorled Milkweed	N	C	P	F	P	
			+	+	+	+				Asclepias viridiflora	Green Milkweed	N	U	P	F	P	
Aspleniaceae																	
										Asplenium platyneuron	Ebony Spleenwort	N	U	F	fern	P	

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
Asteraceae																
			+	+	+	+				Achillea millefolium	Yarrow	I	C	P	F	P
						+	+	+		Ambrosia artemisiifolia	Common Ragweed	N	U	D	F	A
						+	+	+	+	Ambrosia psilostachya	Western Ragweed	N	C	P	F	P
	+	+								Antennaria neglecta	Cat's Foot	N	U	P	F	P
	+	+								Antennaria plantaginifolia	Pussy Toes	N	U	S	F	P
					+	+	+	+		Arctium lappa	Great Burdock	I	U	S	F	B
					+	+	+			Arctium minus	Common Burdock	I	U	D	F	B
					+	+	+			Artemisia campestris	Wormwood	N	U	P	F	B
					+	+	+			Artemisia ludoviciana	White Sage	N	U	P	F	P
						+	+	+		Aster cordifolius	Heart-leaved/Blue Wood Aster	N	U	F	F	P
					+	+	+	+		Aster ericoides	White Prairie/Heath Aster	N	U	P	F	P
							+	+		Aster linariifolius	Flax-leaved Aster	N	U	P	F	P
							+	+	+	Aster oblongifolius	Aromatic Aster	N	U	P	F	P
							+	+		Aster oolentangiensis	Sky Blue Aster	N	R	S	F	P
							+	+	+	Aster pilosus	Hairy Aster	N	C	P	F	P
							+	+		Aster sericeus	Western Silvery Aster	N	U	P	F	P
						+	+	+		Brickellia eupatorioides	False Boneset	N	U	P	F	P
				+	+	+	+	+		Carduus nutans	Musk Thistle	I	U	SF	F	B
					+	+	+			Centaurea maculosa	Spotted Knapweed	I	U	D	F	B
				+	+	+	+	+		Cirsium arvense	Canada Thistle	I	U	D	F	P
						+	+			Cirsium discolor	Field Thistle	N	U	P	F	B
					+					Cirsium hillii	Hill's Thistle	N	R	P	F	P
					+	+				Cirsium vulgare	Bull Thistle	I	U	S	F	B
	+	+	+	+	+	+	+	+		Conyza canadensis	Horseweed	N	C	SF	F	A
				+	+					Coreopsis lanceolata	Sand Coreopsis	N	X	P	F	P
				+	+					Coreopsis palmata	Prairie Coreopsis	N	U	P	F	P
				+	+	+				Crepis tectorum	Hawksbeard	I	U	P	F	A
					+	+				Echinacea pallida	Pale Purple Coneflower	N	R	P	F	P
						+	+	+		Erechtites hieracifolia	Fireweed	N	U	F	F	A
				+	+	+	+	+		Erigeron annuus	Daisy Fleabane	N	U	F	F	B
	+	+								Erigeron philadelphicus	Marsh Fleabane	N	U	F	F	P
	+	+	+							Erigeron strigosus	Daisy Fleabane	N	U	P	F	P
					+	+				Eupatorium purpureum	Spotted Joe-Pye-weed	N	U	F	F	P
					+	+	+			Eupatorium rugosum	White Snakeroot	N	U	F	F	P

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
						+	+	+		Eupatorium serotinum	Late Boneset	N	U	F	F	P
						+	+	+		Euthamia gymnospermoides	Grass-leaved Goldenrod	N	X	P	F	P
							+	+	+	Gnaphalium obtusifolium	Everlasting	N	U	P	F	B
				+	+	+	+			Grindelia squarrosa var. squarrosa	Curlycup-gumweed	N?	U	P	F	B
						+	+			Helianthus annuus	Common Sunflower	I	U	SF	F	A
						+	+			Helianthus hirsutus	Hairy Sunflower	N	U	F	F	P
						+	+			Helianthus mollis	Ashy Sunflower	N	U	P	F	P
				+	+	+	+			Helianthus occidentalis	Western Sunflower	N	U	P	F	P
				+	+	+	+			Helianthus rigidus	Stiff Sunflower	N	X?	P	F	P
				+	+					Heliopsis helianthoides	False Sunflower	N	U	S	F	P
				+	+	+	+			Heterotheca camporum	Golden Aster	N	C	P	F	P
				+	+	+				Hieracium longipilum	Hairy Hawkweed	N	U	P	F	P
	+	+	+	+	+					Krigia virginica	Dwarf Dandelion	N	C	P	F	A
				+	+	+				Lactuca serriola	Prickly Lettuce	I	U	D	F	B
							+	+		Liatrias aspera	Rough Blazing-star	N	C	P	F	P
			+	+	+	+				Matricaria matricarioides	Pineapple-weed	I	U	SF	F	A
				+	+					Ratibida pinnata	Yellow Coneflower	N	R	SF	F	P
				+	+	+	+			Rudbeckia hirta	Black-eyed Susan	N	U	P	F	P
			+	+						Senecio plattensis	Prairie Groundsel	N	U	P	F	P
					+	+	+			Solidago canadensis	Common Goldenrod	N	U	SF	F	P
					+	+	+			Solidago nemoralis	Old-field Goldenrod	N	U	F	F	P
					+	+				Solidago ptarmicoides	White Upland Aster	N	X	P	F	P
					+	+				Solidago rigida	Stiff Goldenrod	N	U	P	F	P
					+	+	+			Solidago speciosa	Showy Goldenrod	N	U	P	F	P
					+	+	+			Solidago ulmifolia	Elm-leaved Goldenrod	N	U	F	F	P
	+	+	+	+	+	+	+	+	+	Taraxacum officinale	Dandelion	I	U	F	F	P
			+	+						Tragopogon dubius	Sand Goat's-beard	I	U	P	F	B
Berberidaceae																
		+	+							Berberis thunbergii	Japanese Barberry	I	U	S	S	P
		+	+	+						Podophyllum peltatum	Mayapple	N	U	F	F	P
Betulaceae																
	+	+								Corylus americana	Hazelnut	N	U	F	S	P
Boraginaceae																
			+	+	+					Cynoglossum officinale	Common Hound's-tongue	I	U	D	F	B

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
			+	+	+	+	+			Echium vulgare	Blueweed/Viper's Bluegloss	I	U	D	F	B
				+	+	+	+			Hackelia virginiana	Stickseed	N	U	F	F	P
			+	+	+	+	+			Lappula echinata	Beggar's Lice	I	U	P	F	A
	+	+	+							Lithospermum carolinense	Hairy Puccoon	N	U	P	F	P
	+	+	+							Lithospermum incisum	Fringed Puccoon	N	U	P	F	P
Brassicaceae																
			+	+						Alliaria petiolata	Garlic Mustard	I	A	F	F	P
			+	+						Alyssum alyssoides	Pale Alyssum	I	U	D	F	A
			+	+	+					Arabis canadensis	Sicklepod	N	U	F	F	B
			+	+	+					Arabis glabra	Tower Mustard	N	R	P	F	B/P
			+	+	+					Arabis lyrata	Sand Cress	N	C	P	F	B/P
				+	+					Arabis X divaricarpa	Purple Rock Cress	N	U	P	F	B
		+	+	+						Barbarea vulgaris	Yellow Rocket	I	U	D	F	B
			+	+	+	+	+			Berteroa incana	Hoary Alyssum	I	U	D	F	A
	+	+	+	+	+	+	+	+		Brassica nigra	Black Mustard	I	U	D	F	A
+	+	+	+	+	+	+	+	+	+	Capsella bursa-pastoris	Shepard's Purse	I	U	D	F	A
	+	+	+	+	+					Cardamine parviflora var. arenicola	Small-flowered Bitter Cress	N	U	S	F	A
			+	+	+					Descurainia pinnata subsp. brachycarpa	Tansy Mustard	N?	U	P	F	A
			+	+						Draba nemorosa var. leiocarpa	Whitlow Grass	N?	R	P	F	A
+	+	+	+							Draba reptans	Common Whitlow Grass	N	C	P	F	A
+	+	+								Draba verna	Vernal Whitlow Grass	I	U	D	F	A
			+	+	+	+	+			Erysimum cheiranthoides	Wormseed Mustard	I	U	P	F	A
			+	+						Erysimum inconspicuum	Treacle Mustard	I	U	D	F	P
		+	+	+						Lepidium campestre	Field Peppergrass	I	U	D	F	B
		+	+	+	+	+	+	+		Lepidium densiflorum	Small Peppergrass	I	C	P	F	A
+	+	+	+	+	+	+	+	+	+	Lepidium virginicum	Common Peppergrass	N	A	P	F	A
			+	+	+	+				Sisymbrium altissimum	Tumble Mustard	I	U	D	F	A
		+	+	+						Thlaspi arvense	Penny Cress	I	U	D	F	A
Cactaceae																
				+	+					Opuntia fragilis	Fragile Prickly-pear	N	LC	P	cactus	P
				+	+					Opuntia humifusa	Eastern Prickly-pear	N	C	P	cactus	P
				+	+					Opuntia macrorhiza	Prickly-pear	N	R	P	cactus	P
Campanulaceae																
				+	+	+	+	+		Lobelia inflata	Indian Tobacco	N	U	F	F	A

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
		+	+	+	+	+				Triodanis perfoliata var. perfoliata	Venus' Looking-Glass	N	U	F	F	A
				+	+	+	+	+		Cannabis sativa	Marijuana/Hemp	I	U	S	F	A
Capparidaceae																
				+	+	+	+			Polanisia dodecandra	Clammyweed	N	U	F	F	A
				+	+	+				Polanisia jamesii	James' Clammyweed	N	C	F	F	A
Caprifoliaceae																
			+	+						Lonicera morrowii	Bush Honeysuckle	I	U	F	S	P
			+	+						Lonicera tatarica	Tartarian Honeysuckle	I	U	S	S	P
			+	+						Viburnum lentago	Nannyberry	N	U	F	S	P
				+	+					Viburnum opulus	European Highbush Cranberry	I	R	F	S	P
Caryophyllaceae																
		+	+	+	+					Arenaria serpyllifolia	Thyme-leaved Sandwort	I	C	D	F	A
		+	+							Cerastium brachypodum	Mouse-eared Chickweed	N	U	P	F	A
			+	+	+	+	+			Cerastium vulgatum	Common Mouse-eared Chickweed	I	U	D	F	P
			+	+	+	+				Dianthus armeria	Deptford Pink	I	U	P	F	A
		+	+							Holosteum umbellatum	Jagged Chickweed	I	C	D	F	A
				+	+	+	+	+		Paronychia canadensis	Tall Forked Chickweed	N	U	S	F	A
				+	+	+	+	+		Paronychia fastigiata	Forked Chickweed	N	U	F	F	A
	+	+	+	+						Phlox bifida	Cleft Phlox	N	X	P	F	P
				+	+	+	+			Saponaria officinalis	Bouncing Bet	I	U	F	F	P
			+	+	+					Silene antirrhina	Sleepy Catchfly	N	U	P	F	A
			+	+	+	+	+	+		Silene cserei	Glaucous Champion	I	U	D	F	A
			+	+	+	+	+	+		Silene latifolia	White Champion	I	U	D	F	A
+	+	+	+	+	+	+	+	+	+	Stellaria media	Common Chickweed	I	U	P	F	A/P
Celastraceae																
			+	+						Celastrus scandens	Bittersweet	N	U	F	S	P
			+	+						Euonymus atropurpurea	Wahoo	N	U	F	S	P
Chenopodiaceae																
			+	+	+	+	+	+		Chenopodium album	Lamb's Quarters	I	?	P	F	A
						+	+	+	+	Chenopodium ambrosioides	Mexican Tea	I	U	D	F	A
			+	+	+	+	+	+		Chenopodium gigantospermum	Maple-leaved Goose Foot	N	U	S	F	A
			+	+	+	+	+	+		Chenopodium pratericola	Goosefoot	N	U	P	F	A
			+	+	+	+	+	+		Chenopodium simplex	Maple-leaved Goose Foot	N	U	S	F	A
				+	+	+	+			Cycloloma atriplicifolium	Winged Pigweed	N	U	D	F	A
				+	+	+				Salsola collina	Katune/Saltwort	N?	U	P	F	A

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
Cistaceae																
				+	+					Helianthemum bicknellii	Frostweed/Rockrose	N	U	P	F	P
				+	+					Helianthemum canadense	Common Rockrose	N	U	P	F	P
			+	+	+					Hudsonia tomentosa	False/Beach Heather	N	U	P	S	P
				+	+	+				Lechea pulchella	Pretty Pinweed	N	U	P	F	P
				+	+	+				Lechea tenuifolia	Slender-leaved Pinweed	N	U	P	F	P
Clusiaceae																
				+	+	+	+			Hypericum perforatum	Common St. John's-wort	I	U	P	F	P
					+	+				Hypericum pyramidatum	Giant St. John's-wort	N	R	F	F	P
				+	+	+	+			Hypericum sphaerocarpum	Round-fruited St. John's-wort	N	U	F	F	P
Commelinaceae																
				+	+	+	+			Commelina erecta	Erect Day-flower	N	U	F	F	P
	+	+		+	+	+				Tradescantia ohimensis	Spiderwort	N	U	F	F	P
Convolvulaceae																
			+	+	+	+	+			Convolvulus arvensis	Field Bindweed	I	U	P	F	P
Cornaceae																
		+	+							Cornus drummondii	Rough-leaved Dogwood	N	U	S	S	P
		+	+	+						Cornus racemosa	Gray Dogwood	N	C	F	S	P
Cyperaceae																
					+	+	+	+		Bulbostylis capillaris	Autumn/Hair Sedge	N	U	P	G	A
			+	+	+					Carex annectens	Large Yellow Fox Sedge	N	U	P	G	P
			+	+	+					Carex bicknellii	Copper-shouldered Oval Sedge	N	C	P	G	P
	+	+	+							Carex blanda	Common Wood Sedge	N	U	F	G	P
			+	+	+					Carex brevior	Plains Oval Sedge	N	C	P	G	P
			+	+	+					Carex gravida	Long-awned Bracted Sedge	N	U	D	G	P
			+	+						Carex hirtifolia	Hairy Wood Sedge	N	U	F	G	P
			+	+						Carex meadii	Mead's Stiff Sedge	N	U	P	G	P
			+	+	+					Carex molesta	Field Oval Sedge	N	U	P	G	P
			+	+	+					Carex muhlenbergii	Sand Bracted Sedge	N	C	P	G	P
	+	+	+							Carex pensylvanica	Common Oak sedge	N	U	F	G	P
	+	+	+							Carex rosea	Curly-styled Wood Sedge	N	U	F	G	P
			+	+	+	+				Carex scoparia var. scoparia	Lance-fruited Oval Sedge	N	U	S	G	P
			+	+	+	+				Carex stipata	Common Fox Sedge	N	U	F	G	P
	+	+	+							Carex tonsa	Shaved Sedge	N	C	P	G	P
			+	+	+	+	+			Carex typhina	Common Cattail Sedge	N	U	F	G	P

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
			+	+	+	+				Carex vulpinoidea	Brown Fox Sedge	N	U	D	G	P
			+	+	+	+	+	+		Cyperus filiculmis var. filiculmis	Slender Sand Sedge	N	C	P	G	P
			+	+	+	+	+	+		Cyperus filiculmis var. macilentus	Slender Sand Sedge	N	C	P	G	P
							+			Cyperus grayioides	Gray's Umbrella Sedge	N	U	P	G	P
				+	+	+	+			Cyperus schweinitzii	Rough Sand Sedge	N	C	P	G	P
Dennstadedtiaceae																
										Pteridium aquilinum	Bracken Fern	N	U	F	fern	P
Dryopteridaceae																
										Athyrium filix-femina var. angustum	Lady Fern	N	U	F	fern	P
										Cystopteris protrusa	Fragile Fern	N	C	F	fern	P
										Dryopteris carthusiana	Spinulose Woodfern	N	C	F	fern	P
										Onoclea sensibilis	Sensitive Fern	N	C	F	fern	P
										Woodsia obtusa	Blunt-lobed Cliff Fern	N	U	F	fern	P
Elaeagnaceae																
			+	+						Elaeagnus angustifolia	Russian Olive	I	U	F	S	P
			+	+						Elaeagnus umbellata	Autumn-Olive	I	?	F	S	P
Equisetaceae																
										Equisetum hyemale var. affine	Scouring Rush	N	C	D		P
										Equisetum laevigatum	Smooth Scouring Rush	N	C	P		P
										Equisetum pratense	Meadow Horsetail	N	R	F		P
										Equisetum X ferrissii	Scouring Rush	N	C	P		P
Euphorbiaceae																
				+	+	+	+			Acalypha gracilens	Slender Three-seeded Mercury	N	R	P	F	A
					+	+	+	+		Acalypha rhomboidea	Three-seeded Mercury	N	U	F	F	A
				+	+	+	+			Chamaesyce geyeri	Geyer's Spurge	N	C	P	F	A
					+	+	+	+		Chamaesyce maculata	Milk Spurge	N	U	D	F	A
				+	+	+	+	+		Chamaesyce nutans	Eyebane	N	U	D	F	A
					+	+	+			Croton capitatus	Capitate Croton	I	R	D	F	A
						+	+	+	+	Croton glandulosus var. septentrionalis	Sand Croton	N	U	P	F	A
						+	+	+		Crotonopsis linearis	Rushfoil	N	X	P	F	A
			+	+	+	+	+	+	+	Euphorbia corollata	Flowering Spurge	N	C	P	F	P
				+	+	+	+			Euphorbia dentata	Toothed Spurge	N	U	D	F	A
				+	+	+	+			Euphorbia esula	Leafy Spurge	I	R	P	F	P
Fabaceae																

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
			+	+	+	+				Amorpha canescens	Leadplant	N	U	P	S	P
						+	+			Amphicarpa bracteata	Hog-peanut	N	U	F	F	P
				+	+	+				Astragalus canadensis	Canada Milk Vetch	N	R	P	F	P
					+	+	+			Chamaecrista fasciculata	Partridge Pea	N	U	P	F	A
				+	+	+				Coronilla varia	Crown Vetch	I	U	D	F	P
				+	+	+	+			Crotalaria sagittalis	Rattlebox	N	U	P	F	A
				+	+	+				Desmodium glutinosum	Pointed Tick-trefoil	N	U	F	F	P
					+	+				Desmodium illinoense	Illinois Tick-trefoil	N	U	P	F	P
		+	+							Gleditsia triacanthos	Honey Locust	N	U	F	T	P
		+	+							Gymnocladus dioicus	Kentucky Coffeetree	N	U	F	T	P
						+	+	+		Kummerowia stipulacea	Korean Clover	I	U	D	F	A
						+	+			Lespedeza capitata	Round-headed Bushclover	N	U	P	F	P
						+	+			Lespedeza intermedia	Wand-lespedeza	N	U	F	F	P
		+	+							Lupinus perennis	Wild Lupine	N	X	S	F	P
		+	+	+						Medicago lupulina	Black Medic	I	U	D	F	A
		+	+	+	+	+	+	+		Melilotus alba	White Sweet Clover	I	U	D	F	B
			+	+	+	+				Melilotus officinalis	Yellow Sweet Clover	I	C	SF	F	B
			+	+						Petalostemum candidum	White Prairie Clover	N	R	P	F	P
			+	+	+					Petalostemum purpureum	Purple Prairie Clover	N	U	P	F	P
		+	+							Robinia pseudoacacia	Black Locust	I	C	F	T	P
			+	+	+	+	+	+		Strophostyles helvola var. helvola	Trailing Wild Bean	N	U	F	F	A
				+	+	+	+	+		Strophostyles helvola var. missouriensis	Trailing Wild Bean	N	U	F	F	A
					+	+	+			Strophostyles leiosperma	Small Wild Bean	N	U	F	F	A
		+	+	+	+					Tephrosia virginiana	Goat's-rue	N	C	P	F	P
		+	+	+	+	+	+	+		Trifolium arvense	Rabbit-foot Clover	I	U	P	F	A
		+	+	+	+	+				Trifolium campestre	Low Hop Clover	I	U	D	F	A
		+	+	+	+	+				Trifolium pratense	Red Clover	I	U	D	F	P
		+	+	+	+	+	+	+		Trifolium repens	White Clover	I	U	D	F	P
			+	+	+					Vicia villosa	Hairy Vetch	I	U	P	F	A/B
Fagaceae																
		+	+							Quercus alba	White Oak	N	U	F	T	P
		+	+							Quercus macrocarpa	Bur Oak	N	C	F	T	P
		+	+							Quercus muhlenbergii	Chinquapin Oak	N	R	S	T	P
		+	+							Quercus rubra	Northern Red Oak	N	U	F	T	P

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		+	+							Quercus velutina	Black Oak	N	A	F	T	P
Fumariaceae																
			+	+	+					Corydalis micrantha	Slender Corydalis	N	U	F	F	B
		+	+							Dicentra cucullaria	Dutchman's Breeches	N	U	F	F	P
Geraniaceae																
			+	+	+	+				Geranium carolinianum	Wild Cranesbill	N	U	F	F	A
		+	+	+						Geranium maculatum	Wild Geranium	N	U	F	F	P
Hydrophyllaceae																
		+	+	+						Ellisia nyctelea	Ellisia/Aunt Lucy	N	U	F	F	A
Iridaceae																
			+	+						Sisyrinchium campestre	Prairie Blue-eyed Grass	N	U	P	F	P
Juglandaceae																
			+	+						Carya cordiformis	Bitternut Hickory	N	U	F	T	P
		+	+							Carya ovata	Shagbark Hickory	N	U	F	T	P
			+	+						Carya tomentosa	Mockernut Hickory	N	U	F	T	P
		+	+							Juglans cinerea	Butternut/White Walnut	N	U	F	T	P
		+	+							Juglans nigra	Black Walnut	N	C	F	T	P
Juncaceae																
				+	+	+	+	+		Juncus tenuis	Path Rush	N	U	D	G	P
Lamiaceae																
				+	+	+				Agastache nepetoides	Yellow Giant Hyssop	N	U	S	F	P
		+	+	+						Hedeoma hispida	Rough Pennyroyal	N	C	P	F	A
		+	+	+	+					Leonurus cardiaca	Motherwort	I	U	F	F	P
		+	+	+	+					Monarda fistulosa	Wild Bergamot	N	U	S	F	P
		+	+	+	+					Monarda fistulosa var. mollis	Wild Bergamot	N	U	S	F	P
			+	+	+	+	+			Monarda punctata	Horsemint/Spotted Beebalm	N	C	P	F	P
			+	+	+	+				Nepeta cataria	Catnip	I	U	D	F	P
		+	+	+	+	+				Prunella vulgaris	Self-heal	I	U	D	F	P
			+	+	+	+				Pycnanthemum tenuifolium	Slender Mountain Mint	N	X	P	F	P
				+	+	+				Pycnanthemum virginianum	Mountain Mint	N	U	P	F	P
					+	+				Salvia azurea subsp. Pitcheri	Blue Sage	N	R	P	F	P
					+	+				Salvia azurea subsp. Pitcheri f. alba	Blue Sage (white flowers)	N	R	P	F	P
		+	+	+	+	+	+			Scutellaria ovata var. versicolor	Heart-leaved Skullcap	N	U	F	F	P
		+	+	+						Scutellaria parvula var. leonardii	Small Skullcap	N	U	P	F	P
				+	+	+	+			Trichostema brachiatum	False Pennyroyal	N	U	D	F	A

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Liliaceae																
			+	+						Asparagus officianalis	Asparagus	I	U	S	F	P
				+	+	+	+	+		Hemerocallis fulva	Daylily	I	U	D	F	P
	+	+	+							Polygonatum biflorum	Solomon's Seal	N	U	F	F	P
			+	+						Smilacina stellata	Starry False Solomon's Seal	N	U	F	F	P
Linaceae																
		+	+	+	+	+				Linum sulcatum	Yellow Flax	N	U	P	F	P
Malvaceae																
				+	+	+	+			Callirhoe triangulata	(Purple) Poppy Mallow	N	U	P	F	P
Menispermaceae																
			+	+	+					Menispermum canadense	Moonseed	N	U	F	WV	P
Molluginaceae																
				+	+	+	+	+		Mollugo verticillata	Carpetweed	I	C	F	F	A
Moraceae																
					+	+	+			Humulus japonicus	Japanese Hops	I	R	S	HV	P
					+	+				Humulus lupulus	Hops	N	U	F	HV	P
	+	+								Morus alba	White Mulberry	I	U	S	T	P
Nyctaginaceae																
					+	+				Mirabilis hirsuta	Hairy Umbrella Wort	N	U	S	F	P
		+	+	+	+					Mirabilis nyctaginea	Wild Four O'Clock	I	U	D	F	P
Oleaceae																
	+	+								Fraxinus pennsylvanica	Green Ash	N	C	F	T	P
		+	+							Syringa vulgaris	Common Lilac	I	U	D	S	P
Onagraceae																
				+	+					Circaea lutetiana subsp. canadensis	Enchanter's Nightshade	N	U	F	F	P
					+	+	+	+		Gaura longiflora	Gaura	N	U	S	F	B
				+	+	+	+	+		Oenothera biennis	Common Evening Primrose	N	R	P	F	B
		+	+	+						Oenothera laciniata	Ragged Evening Primrose	N	U	P	F	A
			+	+	+	+				Oenothera rhombipetala	Sand Primrose	N	C	S	F	B
	+	+	+	+	+					Orobanche fasciculata	Clustered Broomrape	N	X	P	F	P
			+	+						Orobanche ludoviciana	Broomrape	N	R	P	F	P
	+	+								Orobanche uniflora	One-flowered Broomrape	N	R	P	F	P
Orchidaceae																
	+	+	+							Galearis spectabilis	Showy Orchis	N	U	F	F	P
			+	+	+	+				Spiranthes lacera var. gracilis	Slender Ladies' Tresses	N	R	P	F	P

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life	
										Osmundaceae							
										Osmunda claytoniana	Interrupted Fern	N	C	F	fern	P	
										Oxalidaceae							
			+	+	+	+	+	+	+	Oxalis dillenii	Yellow Wood Sorrell	N	U	F	F	P	
										Papaveraceae							
+	+									Sanguinaria canadensis	Bloodroot	N	U	F	F	P	
										Phytoloccaceae							
				+	+	+	+				Phytolacca americana	Pokeweed	N	U	F	F	P
										Plantaginaceae							
			+	+	+	+	+	+	+	Plantago aristata	Bracted Plantain	N?	U	D	F	A	
	+	+	+	+	+	+	+	+		Plantago lanceolata	Dwarf Plantain	I	U	D	F	P	
		+	+	+	+					Plantago patagonica var. brevicarpa	Salt-and-pepper Plant	I?	C	P	F	A	
		+	+	+	+	+	+			Plantago rugelii	Rugel's Plantain	N	U	D	F	A	
+	+	+								Plantago virginica	Dwarf Plantain	N	U	D	F	A	
										Poaceae							
			+	+						Agropyron repens f. aristatum	Quack Grass	I	U	P	G	P	
			+	+						Agropyron repens f. repens	Quack Grass	I	U	P	G	P	
			+	+	+					Agropyron smithii	Western Wheat Grass	I	U	P	G	P	
				+	+					Agropyron subsecundum	Bearded Wheat Grass	N	U	S	G	P	
			+	+	+	+				Agrostis gigantea	Redtop	I	U	P	G	P	
+	+	+	+						Agrostis hyemalis	Bent Grass/Tickle Grass	N	U	P	G	P		
	+	+	+	+						Alopecurus carolinianus	Common Foxtail	N	U	D	G	A	
				+	+	+				Andropogon gerardii	Big Bluestem	N	U	P	G	P	
					+	+				Andropogon hallii	Sand Bluestem	N	R	P	G	P	
					+	+	+			Aristida basiramea	Forked Three-awn Grass	N	C	P	G	A	
					+	+	+			Aristida oligantha	Prairie Three-awn Grass	N	U	P	G	A	
					+	+	+			Aristida tuberculosa	Beach Three-awn Grass	N	C	P	G	A	
				+	+	+				Bouteloua curtipendula	Side-oats Grama	N	U	P	G	P	
				+	+	+				Bouteloua gracilis	Blue Grama	N	R	P	G	P	
				+	+	+				Bouteloua hirsuta	Hairy Grama	N	C	P	G	P	
	+	+	+						Bromus inermis	Awnless Brome	I	U	P	G	P		
		+	+						Bromus kalmii	Kalm's/Prairie Brome	N	X?	P	G	P		
	+	+	+	+						Bromus racemosus	Smooth Chess	I	U	P	G	A	
	+	+	+	+						Bromus tectorum	Downy Chess	I	C	D	G	A	
			+	+	+				Calamovilfa longifolia	Sand-reed	N	R	S	G	P		

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					+	+	+			Cenchrus longispinus	Sand Bur	N	C	D	G	A
				+	+	+	+			Chloris verticillata	Windmill Grass	I	U	D	G	P
			+	+	+					Dactylis glomerata	Orchard Grass	I	U	D	G	P
				+	+	+	+			Digitaria ischaemum	Smooth Crab Grass	I	R	D	G	A
				+	+	+	+	+		Digitaria sanguinalis	Hairy Crab Grass	I	U	D	G	A
						+	+	+		Echinochloa crusgalli	Barnyard Grass	I	U	D	G	A
				+	+	+	+			Elymus canadensis	Nodding Wild Rye	N	U	P	G	P
			+	+	+	+	+	+		Eragrostis cilianensis	Stink-grass	I	U	D	G	A
					+	+	+	+		Eragrostis pectinacea	Small Love Grass	N	U	D	G	A
				+	+	+	+	+		Eragrostis poaeoides	Low Love Grass	I	U	D	G	A
				+	+	+	+	+		Eragrostis spectabilis	Tumblegrass/Purple Love Grass	N	U	P	G	P
					+	+	+	+		Eragrostis trichoides	Sand-lovegrass	N	U	P	G	P
			+	+	+	+				Festuca elatior	Tall Fescue	I	U	D	G	P
			+	+	+					Festuca obtusa	Nodding Fescue	N	U	S	G	P
			+	+	+					Festuca ovina	Slender Fescue	I	U	P	G	P
			+	+	+	+				Festuca pratensis	Meadow Fescue	I	U	D	G	P
				+	+	+	+			Hordeum jubatum	Squirrel-tail Grass	I	U	D	G	P
				+	+	+	+			Koeleria macrantha	June Grass	N	C	P	G	P
					+	+	+			Leptoloma cognatum	Fall Witch Grass	N	C	P	G	P
				+	+	+	+			Lolium perenne	Perennial Rye Grass	I	U	D	G	P
					+	+				Muhlenbergia racemosa	Muhly/Upland Wild Timothy	N	U	F	G	P
					+	+	+	+		Muhlenbergia schreberi	Nimblewill	N	U	F	G	P
					+	+	+	+		Panicum capillare var. capillare	Witch-grass	N	U	D	G	A
			+	+	+	+	+			Panicum depauperatum	Starved Panic Grass	N	U	P	G	P
				+	+	+	+	+		Panicum lanuginosum var. fasciculatum	Old-field Panic Grass	N	U	F	G	P
				+	+	+	+	+		Panicum lanuginosum var. implicatum	Panic Grass	N	U	S	G	P
				+	+	+	+			Panicum linearifolium	Slender-leaved Panic Grass	N	U	P	G	P
				+	+	+	+	+		Panicum oligosanthos	Few-flowered Panic Grass	N	U	P	G	P
			+	+	+	+	+			Panicum villosissimum	Hairy Panic Grass	N	C	P	G	P
				+	+	+	+	+		Panicum virgatum	Switch Grass	N	C	P	G	P
				+	+	+	+			Panicum wilcoxianum?	Panic Grass	N	R	P	G	P
				+	+	+	+			Paspalum bushii	Hairy Bead Grass	N	U	P	G	P
				+	+	+	+			Paspalum ciliatifolium	Paspalum	I?	U	P	G	P
			+	+	+	+				Poa compressa	Canadian Bluegrass	I	U	F	G	P

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		+	+	+	+					Poa pratensis	Kentucky Bluegrass	I	A	D	G	P
						+	+	+		Schizachyrium scoparium	Little Bluestem	N	A	P	G	P
									+	Setaria faberi	Nodding Foxtail	I	U	SF	G	A
						+	+	+		Setaria glauca	Yellow Foxtail	I	U	SF	G	A
						+	+	+		Setaria viridis	Green Foxtail	I	U	D	G	A
									+	Sorghastrum nutans	Indian Grass	N	C	P	G	P
						+	+	+		Spartina pectinata	Prairie Cordgrass	N	R	S	G	P
		+	+	+						Sphenopholis obtusata var. major	Prairie Wedge Grass	N	U	F	G	P
		+	+	+						Sphenopholis obtusata var. obtusata	Prairie Wedge Grass	N	U	P	G	P
									+	Sporobolus asper	Tall Dropseed	N	U	P	G	P
									+	Sporobolus clandestinus	Rough Dropseed	N	U	D	G	P
									+	Sporobolus cryptandrus	Sand Dropseed	N	A	P	G	P
									+	Sporobolus heterolepis	Prairie Dropseed	N	R	P	G	P
									+	Sporobolus vaginiflorus	Poverty-grass	N	U	D	G	A
		+	+							Stipa spartea	Porcupine/Needle Grass	N	C	P	G	P
				+	+	+	+			Tridens flavus	Purpletop/Redtop/Greasy Grass	N	U	D	G	P
						+	+	+		Triplasis purpurea	Purple Sand-grass	N	U	P	G	A
				+	+	+				Triticum aestivum	Wheat	I	U	P	G	A
		+	+	+						Vulpia octoflora	Six-weeks Fescue	N	A	P	G	A
Polemoniaceae																
		+	+	+						Phlox divaricata subsp. laphamii	Blue Phlox	N	U	F	F	P
Polygalaceae																
				+	+	+				Polygala polygama var. obtusata	Purple Milkwort	N	U	P	F	B
						+	+	+		Polygala verticillata	Whorled Milkwort	N	U	P	F	A
Polygonaceae																
				+	+	+	+	+		Polygonum cespitosum var. longisetum	Creeping Smartweed/Knotweed	I	U	SF	F	A
						+	+	+	+	Polygonella articulata	Sand Jointweed	N	U	P	F	A
		+	+	+	+	+	+	+		Polygonum convolvulus	Black Bindweed	I	U	F	F	A
						+	+	+		Polygonum ramosissimum	Knotweed	N	U	P	F	A
						+	+	+		Polygonum scandens	False Buckwheat	N	U	F	HV	P
						+	+	+		Polygonum tenue	Slender Knotweed	N	U	P	F	A
						+	+	+		Polygonum virginianum	Jumpseed	N	U	F	F	P
		+	+	+	+	+				Rumex acetosella	Sour Dock	I	C	P	F	P
		+	+							Rumex altissimus	Pale Dock	N	U	D	F	P

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
Portulacaceae																
+	+	+								Claytonia virginica	Spring Beauty	N	C	F	F	P
				+	+	+	+	+		Portulaca oleracea	Purslane	I	U	P	F	A
				+	+	+				Talinum rugospermum	Fameflower	N	U	F	F	P
Primulaceae																
+	+									Androsace occidentalis	Rock Jasmine	N	C	P	F	A
Ranunculaceae																
			+	+	+					Anemone canadensis	Meadow Anemone	N	C	F	F	P
+	+									Anemone caroliniana	Carolina Anemone	N	U	P	F	P
			+	+	+	+				Anemone cylindrica	Thimbleweed	N	U	F	F	P
+	+									Anemone quinquefolia	Wood Anemone	N	U	F	F	P
+	+	+	+							Aquilegia canadensis	Wild Columbine	N	U	F	F	P
+	+	+								Ranunculus abortivus	Small-flowered Buttercup	N	U	F	F	A
+	+									Ranunculus fascicularis	Early Buttercup	N	U	P	F	P
				+	+	+				Ranunculus pensylvanicus	Bristly Crowfoot	N	R	SP	F	A
			+							Ranunculus rhomboideus	Prairie Buttercup	N	X?	P	F	P
Rhamnaceae																
			+	+	+					Ceanothus americanus	New Jersey Tea	N	U	S	S	P
		+	+							Ceanothus herbaceus	Redroot	N	U	P	S	P
		+	+							Rhamnus cathartica	Common Buckthorn	I	U	F	S	P
Rosaceae																
			+	+	+					Agrimonia gryposepala	Tall Agrimony	N	U	F	F	P
				+	+	+				Agrimonia pubescens	Soft Agrimony	N	U	F	F	P
		+								Crataegus calpodendron	Hawthorn	N	U	F	T	P
+	+	+	+							Fragaria virginiana	Wild Strawberry	N	U	F	F	P
			+	+	+					Geum canadense	White Avens	N	U	F	F	P
		+	+							Geum triflorum	Prairie Smoke	N	U	P	F	P
+	+									Malus coronaria	Wild Sweet Crab	N	U	P	T	P
		+								Malus ioensis	Iowa Crab	N	U	F	T	P
		+								Malus pumila	Apple	I	U	F	T	P
	+	+								Physocarpus opulifolius	Ninebark	N	R	F	S	P
	+	+	+	+	+		+			Potentilla argentea	Silvery Cinquefoil	I	C	D	F	P
			+	+						Potentilla arguta	Prairie Cinquefoil	N	R	P	F	P
	+	+	+	+						Potentilla inclinata	Hoary Cinquefoil	I	R	SF	F	P
			+	+						Potentilla norvegica	Rough Cinquefoil	both	U	D	F	A

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
			+	+	+					Potentilla recta	Sulfur Cinquefoil	I	C	P	F	P
			+	+						Potentilla simplex	Old-field/Common Cinquefoil	N	U	F	F	P
		+	+							Prunus americana	Wild Plum	N	C	F	T	P
			+							Prunus nigra	Canadian Plum	N	R	F	T	P
			+							Prunus serotina	Wild Black Cherry	N	U	F	T	P
			+							Prunus virginiana	Choke Cherry	N	U	F	S	P
			+	+	+					Rosa carolina	Pasture Rose	N	U	F	S	P
			+	+						Rosa multiflora	Multiflora Rose	I	U	F	S	P
				+	+					Rosa suffulta	Dwarf Prairie Rose	N	U	F	S	P
			+	+						Rubus allegheniensis	Common Blackberry	N	U	F	S	P
			+	+						Rubus argutus	(Highbush) Blackberry	N	U	P	S	P
		+	+	+						Rubus flagellaris	Common Dewberry	N	U	F	S	P
			+	+						Rubus occidentalis	Black Raspberry	N	U	F	S	P
Rubiaceae																
					+	+				Diodia teres	Rough Buttonweed	N	C	P	F	A
			+	+	+					Galium aparine	Goosegrass	N	U	F	F	A
			+	+	+					Galium circaezans	Forest-bedstraw/Wild Licorice	N	U	F	F	P
				+	+					Galium concinnum	Shining Bedstraw	N	U	F	F	P
			+	+	+	+	+			Galium triflorum	Sweet-scented Bedstraw	N	U	F	F	P
Rutaceae																
			+	+	+					Ptelea trifoliata	Wafer Ash	N	U	F	S	P
		+	+							Zanthoxylum americanum	Prickly Ash	N	C	F	S	P
Salicaceae																
	+	+	+							Populus deltoides	Cottonwood	N	U	P	T	P
		+								Populus grandidentata	Big-tooth Aspen	N	U	F	T	P
		+	+							Populus tremuloides	Quaking Aspen	N	U	S	T	P
Santalaceae																
			+	+	+	+				Comandra umbellata	False Toadflax	N	U	P	F	P
Saxifragaceae																
		+	+							Ribes missouriense	Missouri Gooseberry	N	C	F	S	P
Scrophulariaceae																
					+	+	+			Aureolaria grandiflora var. pulchra	Yellow False Foxglove	N	R	F	F	P
			+	+	+	+	+			Bacopa rotundifolia	Water Hyssop	N	R	SP	F	P
			+	+						Besseyia bullii	Kitten Tails	N	U	F	F	P
				+	+	+	+			Chaenorrhinum minus	Dwarf Snapdragon	I	U	D	F	A

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
		+	+	+	+	+	+			Linaria canadensis	Blue Toadflax	N	U	P	F	A
			+	+	+	+	+	+	+	Linaria vulgaris	Butter-and-Eggs	I	U	D	F	A
			+	+						Penstemon grandiflorus	Large-flowered Beard Tongue	N	X	P	F	P
		+	+	+	+					Penstemon pallidus	Pale Beardstongue	N	U	P	F	P
			+	+						Scrophularia lanceolata	Early Figwort	N	U	F	F	P
			+	+	+	+	+			Verbascum blattaria	Moth Mullein	I	U	P	F	B
			+	+	+	+	+			Verbascum thapsus	Wooly Mullein	I	U	F	F	B
+	+	+	+	+	+					Veronica arvensis	Corn Speedwell	I	U	D	F	A
+	+	+	+	+	+					Veronica dillenii	Speedwell	I	C	D	F	A
		+	+	+	+	+				Veronica peregrina	Purslane Speedwell	N	U	D	F	A
Selaginellaceae																
										Selaginella rupestris	Dwarf Spike-moss	N	C	P	moss	P
Smilacaceae																
			+	+						Smilax hispida	Bristly Catbrier	N	U	F	WV	P
		+	+	+						Smilax lasioneuron	Carrion Flower	N	U	F	HV	P
Solonaceae																
			+	+	+	+	+			Physalis heterophylla	(Clammy) Ground Cherry	N	U	P	F	P
			+	+	+	+				Physalis virginiana	Lance-leaved Ground Cherry	N	C	P	F	P
				+	+	+	+	+		Solanum carolinense	Horse Nettle	I	U	P	F	P
					+	+	+	+		Solanum cornutum	Buffalo-burr	I	U	D	F	A
		+	+	+	+	+	+	+	+	Solanum ptycanthum	Black Nightshade	N	U	F	F	A
Tiliaceae																
			+	+	+					Tilia americana	Basswood	N	U	F	T	P
Ulmaceae																
			+	+						Celtis occidentalis	Hackberry	N	U	F	T	P
+	+	+								Ulmus americana	American Elm	N	U	F	T	P
				+						Ulmus pumila	Siberian Elm	I	U	P	T	P
+	+	+								Ulmus rubra	Slippery Elm	N	U	F	T	P
Urticaceae																
			+	+	+	+	+			Parietaria pensylvanica	Pellitory	N	U	F	F	A
Verbenaceae																
				+	+	+	+			Phryma leptostachya	Lopseed	N	U	F	F	P
		+	+	+	+	+	+	+		Verbena bracteata	Creeping Vervain	N	U	D	F	A
			+	+	+	+	+			Verbena stricta f. albiflora	White Hoary Vervain	N	R	P	F	P
			+	+	+	+	+			Verbena stricta f. roseiflora	Pink Hoary Vervain	N	U	P	F	P

F	M	A	M	J	J	A	S	O	N	Family: Species	Common name(s)	Native	Freq	Habitat	Growth	Life
			+	+	+	+	+			Verbena stricta f. stricta	Hoary vervain	N	C	P	F	P
				+	+	+	+	+		Verbena urticifolia	Hairy White Vervain	N	U	F	F	P
Violaceae																
		+	+	+						Viola pedata	Bird's-foot Violet	N	C	P	F	P
		+	+							Viola pubescens var. eriocarpa	Smooth Yellow Violet	N	U	F	F	P
	+	+	+							Viola rafinesquii	Johnny-jump-up/Wild Pansy	I	U	F	F	A
	+	+	+							Viola sororia	Woolly Blue Violet	N	U	S	F	P
Vitaceae																
				+	+					Parthenocissus quinquefolia	Virginia Creeper	N	U	F	WV	P
			+	+						Vitis riparia	River Grape	N	C	F	WV	P

Table 2. Seasonal occurrence of birds at Lost Mound and surrounding areas. Data based on systematic and informal surveys by INHS and IDNR from 1998 to 2007. Species reported outside this time period are listed with no data. Species listed by taxonomic order except for perching birds which are listed by family (following names and sequence from American Ornithologists' Union.) Column headings show four "weeks" per month. Number in each column indicates number of years each species observed during that time period. A + indicates species observed all 10 years.

Note that fieldwork is limited in winter (December – February) except for Christmas Bird Count at end of second week of December.

