### **14 Future Considerations**

Watershed plans are intended to be living documents that require updates as water quality and land use change and BMPs are implemented.

The steering committee will continue to meet on a regular basis for the purpose of plan implementation. Annually, this committee will review findings of any subcommittees that have been formed to help implement the watershed restoration plan. The action register, which serves as a work plan, will be updated every five years. The steering committee will review project efforts according to the management plan's goals, objectives, and strategies no less than every five years. The Northwestern Indiana Regional Planning Commission will be responsible for holding and revising the Deep River-Portage Burns Waterway Watershed Restoration Plan as appropriate based on stakeholder feedback. The plan may be adapted or blended with other watershed management plans to effectively create living documents which cover larger-scale projects and capitalize on potential shared resources.

Questions pertaining to the Deep River-Portage Burns Waterway Watershed Plan can be directed to:

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# **Best Management Practices**

## **URBAN AREA PRACTICES**

#### **Bioretention (Rain Gardens)**

Bioretention areas (often called rain gardens) are shallow surface depressions planted with specially selected native vegetation to capture and treat stormwater runoff from rooftops, streets, and parking lots. Variations for this practice inlcude subsurface storage, use of underdrain, and use of impervious liner.

#### **Capture Reuse**

Structures designed to intercept and store runoff from rooftops allow for its reuse, reducing volume and overall water quality impairment. Storm wateris contained in the structures and typically reused for irrigation or other water needs. Variations for this practice include rain barrels and cisterns.

#### **Constructed Filter**

Constructed filters are structures or excavated areas containing a layer of sand, compost, organic material, peat, or other media that reduce pollutant levels in stormwater runoff by filtering sediments, metals, hydrocarbons, and other pollutants. Constructed filters are suitable for sites without sufficient surface area available for bioretention. Variations for this pactice inlcude vegetated, infiltration, contained, linear perimiter, and subsurface.

#### **Detention Basin**

Detention basins are temporary stormwater storage structures that help prevent downstream flooding. The primary purpose of detention basins is the attenuation of stormwater runoff peaks. Variations can inlcude dry ponds, wet ponds, constructed wetlands, an bioretention.

#### **Infiltration Practices**

Infiltration practices are natural or constructed land areas located in permeable soils that capture, store, and infiltrate the volume of stormwater runoff into surrounding soil. Variations include dry wells, infiltration basins, infiltration berms, infitration trenches, subsurface infiltration beds, and bioretention.

#### LID Site Design

The LID site design process builds on the traditional approach to site design. It begins with analysis of the site, and incorporates steps to involve local decision makers early in the process. An essential objective of the site design process is to minimize storm water runoff by preventing it from occurring. This can be accomplished through the use of nonstructural BMPs in the site design (LID Manual for Michigan- Chapter 6). Once prevention is maximized, some amount of mitigation is needed to address storm water peak rate, volume, and water quality from increased impervious surfaces. These storm water management objectives can be met with the following structural BMPs (also see LID Manual for Michigan- Chapter 7).

#### Pervious Pavement w/ Infiltration

Pervious pavement is an infiltration technique that combines stormwater infiltration, storage, and structural pavement consisting of a permeable surface underlain by a storage reservoir. Pervious pavement is well suited for parking lots, walking paths, sidewalks, playgrounds, plazas, tennis courts, and other similar uses. Variations include porous asphalt, pervious concrete, permeable paver blocks, reinforced turf/gravel.

#### **Planter Boxes**

Planter boxes receive runoff from multiple impervious surfaces, which is used for irrigation of the vegetation in the planter box preventing storm water from directly draining into nearby storm sewers. They also play an important role in urban areas by minimizing storm water runoff, reducing water pollution, and creating a greener and healthier appearance of the built environment by providing space for plants and trees near buildings and along streets. Variations of planter boxes which can be used on sidewalks, plazas, rooftops, and other impervious areas include contained, infiltration, and flow-through.

#### Sanitary Sewer Hookup

Municipalities which operate a sanitary sewer system can require properties that use septic systems for wastewater treatment to connect to sanitary if the affected property line is within 300 feet of the sanitary line under Indiana Code 36-9-23-30.

#### Septic System Operation & Maintenance Program Ordinance

The purpose of a septic system operation and maintenance program is to establish requirement for the inspection, maintenance and repair of septic systems. Maintenance of septic systems is crucial for their operation, particularly the removal of accumulated sludge.

#### **Stream Daylighting**

Stream daylighting restores stream channels that have been piped/buried to an open channel. This type of restoration practice can restore a variety of ecosystem functions which benefit fish and wildlife and people. Examples include reduction in pathogen concentrations, increased habitat, nutrient uptake and sediment deposition, floodwater storage, recreation, scenic beauty.

#### **Vegetated Filter Strip**

A vegetated filter strip is a permanent, maintained strip of vegetation designed to slow runoff velocities and filter out sediment and other pollutants from urban stormwater. Filter strips require the presence of sheet flow across the strip, which can be achieved through the use of level spreaders. Frequently, filter strips are designed where runoff is directed from a parking lot into a stone trench, a grass strip, and a longer naturally vegetative strip. Variations include turf grasses, prairies grasses, shrubs and trees.

#### Vegetated Roof (Green Roof)

Green roofs are rooftops that include a thin covering of vegetation allowing the roof to function more like a natural vegetated surface. The overall thickness of the vegetated roof may range from 2 to 6 inches, typically containing multiple layers consisting of waterproofing, synthetic insulation, non-soil engineered growth media, fabrics, synthetic components, and foliage.

#### **Vegetated Swale**

A vegetated swale (or bioswale) is a shallow stormwater channel that is densely planted with a variety of grasses, shrubs, and/or trees designed to slow, filter, and infiltrate stormwater runoff. Check dams can be used to improve performance and maximize infiltration, especially in steeper areas. Vairations for this practice include vegetated swale with infiltration trench, linerar wetland swale and grass swale.

#### Water Quality Devices

Various proprietary, commercially available BMPs have been designed to remove nonpoint source pollutants from the conveyance system for stormwater runoff. These structural BMPs vary in size and function, but all utilize some form of filtration, settling, or hydrodynamic separation to remove particulate pollutants from overland or piped

flow. The devices are generally configured to remove pollutants including coarse sediment, oil and grease, litter, and debris. Some filtration devices employ additional absorbent/adsorbent material for removal of toxic pollutants. Pollutants attached to sediment such as phosphorus, nitrates, and metals may be removed from stormwater by effective filtration or settling of suspended solids.

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## **AGRICULTURAL AREA PRACTICES**

#### **Access Control**

Access control is used to for the temporary or permanent exclusion of animals, people, vehicles and/or equipment from and area. The purpose of the measure is to achieve and maintain desired resource conditions by managing the intensity of use as specified in the conservation plan.

#### Alternative Watering Systems

Alternative watering systems provide an alternate location for livestock to seek water rather than using a surface water source. This removes the negative impacts of livestock access to streams including direct deposit of manure and bank erosion and destabilization, while improving the health of livestock by providing a clean water source and better footing while drinking. Alternative watering systems may include pump systems or gravity systems connected to a well, or running pipe from a pond or spring.

#### **Conservation Cover**

Conservation cover establishes and maintains permanent vegetative cover to reduce erosion and water quality degradation, improve soil health, and enhance wildlife and pollinator habitat.

#### **Cover Crops**

Cover crops include legumes and non-legumes which are planted prior to or following crop harvest. Cover crops typically grow for one season to one year and are typically grown in non-cropping seasons. Cover crops are used to improve soil quality and future crop harvest by improving soil tilth, reducing wind and water erosion, increasing available nitrogen, reducing phosphorus transport, suppressing weed cover, and encouraging beneficial insect growth.

#### **Critical Area Planting**

Critical area planting is the planting of grasses, legumes, or other vegetation to stabilize slopes in small, severely eroding areas. The permanent vegetation stabilizes areas such as gullies, over-grazed hillsides and terraced backslopes. Although the primary goal is erosion control, the vegetation can also provide nesting cover for birds and small animals.

#### **Denitrifying Bioreactor**

A denitrifying bioreactor is a structure containing a carbon source, installed to reduce the concentration of nitrate nitrogen in subsurface agricultural drainage flow via enhanced denitrification.

#### Drainage Water Management

Drainage water management is the process of managing water discharges from surface and/or subsurface agricultural drainage systems to reduce nutrient and pathogen loading; improve plant productivity, health and vigor; reduce oxidation of organic matter in soils; and provide seasonal wildlife habitat.

#### Fencing

Fencing is used to help accomplish conservation objectives by controlling the movement of animals, people and vehicles. For the purposes of this watershed restoration plan, fencing is identified as strategy to exclude livestock access for pasture management and access control.

#### **Field Border**

A field border is a strip of permanent vegetation established at the edge or around the perimeter of a field. The practice can be applied to reduce wind and water erosion, provide wildlife habitat, and connect other buffer practices on cropland and grazing lands.

#### **Filter Strips**

A filter strip is a strip or area of vegetation for removing sediment, organic matter, and other pollutants from runoff and wastewater before they reach water bodies or water sources, including wells.

#### Forage and Biomass Planting

This practice is for establishing herbaceous species suitable for pasture, hay or biomass production to improve or maintain livestock nutrition and/or health; provide or increase forage supply; reduce soil erosion, improve soil and water quality; and produce feedstock for biofuel or energy production

#### **Stabilization Structures**

A grade stabilization structure is a structure used to control the grade in natural or constructed channels to reduce erosion and improve water quality.

#### **Grassed Waterway**

Grassed waterways are natural or constructed channels established for transport of concentrated flow at safe velocities using adequate channel dimensions and proper vegetation. They are generally broad and shallow by design to move surface water across farmland without causing soil erosion. Grassed waterways are used as outlets to prevent rill and gully formation. The vegetative cover slows the water flow, minimizing channel surface erosion, and uptakes nutrients. The waterways can also function as wildlife corridors.

#### Manure Management Planning

Manure management planning includes consideration of the volume and type of manure produced annually, crop rotations by field, the volume of manure and nutrients needed for each crop, field slope, soil type, and manure collection, transportation, storage, and distribution methods. Manure management planning uses similar techniques to nutrient management planning with regards to nutrient budgets. Proper management of animal waste can be done by implementing BMPs, through safe storage, by application as a fertilizer, and through composting. Manure management can also be addressed in education and outreach to encourage farmers to participate in this BMP.

#### Manure Storage Facilities

Waste storage facilities are one component of agricultural waste management systems, designed to temporarily store manure, wastewater, and contaminated runoff. Storage facilities include impoundments created by building an embankment or excavating a pond, or by building a structure such as a tank. Facilities should be constructed, operated and maintained in such a way that they do not pollute water resources. Facilities must be located outside of floodplains and with a minimum 300 foot setback from surface waters and drainage inlets, or a 100 foot setback if the facility is for solids storage only. In addition, facilities should be located so as to minimize the potential impacts from breach of embankment, accidental release and liner failure

#### **Nutrient Management**

Nutrient management is the management of the amount, source, placement, form, and timing of the application of plant nutrients and soil amendments to minimize the transport of applied nutrients into surface water or groundwater. Nutrient management seeks to supply adequate nutrients for optimum crop yield and quantity, while also helping to sustain the physical, biological, and chemical properties of the soil. A nutrient budget for nitrogen, phosphorus, and potassium is developed considering all potential sources of nutrients including, but not limited to, animal manure, commercial fertilizer, crop residue, and legume credits.

#### **Prescribed Grazing**

This practice may be applied on all lands where grazing and/or browsing animals are managed. Removal of herbage by the grazing animals is in accordance with production limitations, plant sensitivities and management goals. Frequency of defoliations and season of grazing is based on the rate of growth and physiological condition of the plants. Duration and intensity of grazing is based on desired plant health and expected productivity of the forage species to meet management objectives. The practice minimizes concentrated livestock areas to enhance nutrient distribution and improve or maintain ground cover and riparian/floodplain plant community structure and functions.

#### Residue and Tillage Management, No Till

Conservation tillage refers to several different tillage methods or systems that leave at least 30% of the soil covered with crop residue after planting. This practice includes planting methods commonly referred to as no-till, quality no till, never-till, zero till, slot plant, zone till, strip till, or direct seed. The purpose of conservation tillage is to reduce sheet and rill erosion, maintain or improve soil organic matter content, conserve soil moisture, reduce plant damage, and provide habitat and cover for wildlife. The remaining crop residue helps reduce soil erosion and run-off volume.

#### Residue and Tillage Management, Reduced Till

This practice includes tillage methods commonly referred to as mulch tillage where a majority of the soil surface is disturbed by tillage operations such as vertical tillage, chiseling and disking and also includes tillage/planting systems with relatively minimal soil disturbance but which do not meet the criteria for Indiana (IN) Field Office Technical Guide (FOTG) Standard Residue and Tillage Management, No-Till. It applies to stubble mulching on summer-fallowed land, to tillage for annually planted crops and to tillage for planting perennial crops. Also included is the use of a "modified no-till" system (Indiana definition) that uses full width tillage but leaves as much as 85% of the initial residue on the soil surface.

#### Saturated Buffer

A saturated buffer is a riparian buffer in which the water table is artificially raised by diverting subsurface drainage along the buffer accomplished by installing a water control structure in the main drainage outlet. The purpose of the practice is to hydrologically reconnect a subsurface drainage outlet with an edge-of-field buffer. This practice takes advantage of both the denitrification and plant nutrient uptake opportunities that are known to exist in buffers with perennial vegetation as a way to remove nutrients from the drainage water.

## WATERSHED-WIDE PRACTICES

Floodplain Reconnection

Floodplain reconnection restores the interactions between the stream and its floodplain, resulting in a regaining of hydrologic and ecological function. This may be accomplished by lowering of the floodplain terrace through benching, excavation to create lower floodplains, or raising the stream through bankfull channel restoration.

#### Native Revegetation

Native revegetation includes the restoration of forest and/or prairie. Revegetation should primarily use native vegetation due to the numerous benefits, including lower long-term maintenance needs, storm water runoff volume reduction, improved water quality, and habitat. Variations inlcude prairie, no-mow lawn areas, woodland (trees), constucted wetlands, buffer areas, and turfgrass replacement.

#### **Riparian Buffer Restoration**

Restores herbaceious and tree/shrub cover between waterbodies and upland human land uses. Riparian buffers create shade to lower or maintain water temperatures; improve habitat for terrestrial and aquatic organisms; reduce excess sediment and nutrients in surface runoff; and reduce runoff volume and velocity.

#### Streambank Stabilization & Shoreline Protection

Used to stabilize and protect streambanks, constructed channels, and shorelines for the purposes of preventing the loss or damage of land, land uses, or facilities; maintaining flow capacity; reducing offsite or downstream effects of sediment from bank erosion; and improving or enhancing the stream corridor for fish and wildlife habitat, aesthetics, recreation.

#### Two-Stage Ditch

The open channel practice applies to constructing or improving a channel, either natural or artificial, in which water flows with a free surface to provide discharge capacity required for flood prevention, drainage, other authorized water management purposes, or any combination of these purposes.

#### Wetland Restoration

This practice returns a wetland and its functions to a close approximation of its original condition as it existed prior to disturbance on a former or degraded wetland site.

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Schueler, T., Hirschman, D., Novotney, M., Zielinski, J. (2007). Manual 3: Urban Stormwater Retrofit Practices Manual.:Urban Subwatershed Restoration Manual Series. Center for Watershed Protection, Ellicott City, MD.

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# Natural Heritage Data

Scientific Name	Common Name	Natural Communities
Achalarus lyciades	The Hoary Edge Skipper	Savanna or Prairie
Aethes patricia		Prairie
Agalinis auriculata	Earleaf Foxglove	Prairie
Agalinis skinneriana	Pale False Foxglove	Prairie
Agrotis stigmosa		Savanna or Prairie
Agrotis vetusta	A Moth	Prairie
Amblyscirtes vialis	Common Roadside-skipper	Prairie
Ambystoma laterale	Blue-spotted Salamander	Savanna or Woodlands
Ammodramus henslowii	Henslow's Sparrow	Prairie
Anas clypeata	Northern Shoveler	Marsh
Ancylis semiovana		Prairie or Savanna
Anepia capsularis	The Starry Campion Capsule Moth	Savanna
Apamea burgessi	A Noctuid Moth	Prairie
Apamea indocilis	The spastic apamea	Prairie
Apamea nigrior	Black-dashed Apamea	Prairie
Aralia hispida	Bristly Sarsaparilla	Savanna
Arctostaphylos uva-ursi	Bearberry	Dune or Sand Prairie
Arethusa bulbosa	Swamp-pink	Bog or Swamp
Aristida intermedia	Slim-spike Three-awn Grass	Savanna or Dry Sand Prairie
Aristida tuberculosa	Seabeach Needlegrass	Sand Prairie or Dunes
Armoracia aquatica	Lake Cress	Pond or Marsh
Aster borealis	Rushlike Aster	Sedge Meadow or Wet Prairie
Aster furcatus	Forked Aster	Perched Fen
Aster sericeus	Western Silvery Aster	Sand Savanna
Atrytonopsis hianna	Dusted Skipper	Prairie
Betula papyrifera	Paper Birch	Forest
Boloria selene myrina	Silver-bordered Fritillary	Prairie or Sedge Meadow
Botaurus lentiginosus	American Bittern	Marsh or Sedge Meadow
Botrychium matricariifolium	Chamomile Grape-fern	Forest
Botrychium simplex	Least Grape-fern	Prairie
Bruchomorpha dorsata		Prairie
Bruchomorpha extensa	The Long-nosed Elephant Hopper	Prairie
Bruchomorpha oculata		Prairie
Callophrys irus	Frosted Elfin	Savanna or Sand Prairie
Capis curvata	A Noctuid Moth	Prairie or Sedge Meadow
Carex aurea	Golden-fruited Sedge	Prairie or Sedge Meadow
Carex conoidea	Prairie Gray Sedge	Prairie
Carex crawei	Crawe Sedge	Prairie or Sedge Meadow
Carex echinata	Little Prickly Sedge	Prairie

Carex richardsonii	Richardson Sedge	Sand Prairie
Carex straminea	Straw Sedge	Prairie or Savana
Catocala gracilis	Graceful Underwing	Prairie
Catocala praeclara	Praeclara Underwing	Prairie
Chlidonias niger	Black Tern	Marsh
Chloealtis conspersa	Sprinkled Locust	Savanna
Chlorotettix fallax	A Leafhopper	Prairie
Chrysanympha formosa	The Huckleberry Looper Moth	Savanna
Cicadula straminea		Prairie
Cirsium hillii	Hill's Thistle	Prairie
Cirsium pitcheri	Dune Thistle	Dune
Cistothorus palustris	Marsh Wren	Marsh or Sedge Meadow
Cistothorus platensis	Sedge Wren	Marsh or Sedge Meadow
Clemmys guttata	Spotted Turtle	Fen or Sedge Meadow
Clintonia borealis	Clinton Lily	Fen or Seep
Coenochroa bipunctella	Sand Dune Panic Grass Moth	Sand Prairie
Coenochroa illibella	Dune Panic Grass Moth	Sand Prairie
Conocephalus saltans	Prairie Meadow Katydid	Prairie
Cornus amomum ssp. amomum	Silky Dogwood	Savanna
Cornus rugosa	Roundleaf Dogwood	Dunes, Woodlands, or Forest
Corydalis sempervirens	Pale Corydalis	Prairie or Savanna
Cosmotettix bilineatus	Two-lined cosmotettix	Prairie
Crambus bidens		Marsh or Sedge Meadow
Crambus girardellus	Orange-striped Sedge Moth	Marsh or Sedge Meadow
Crambus murellus	Prairie Sedge Moth	Prairie
Croesia curvalana		Savanna or Prairie
Croesia semipurpurana		Savanna
Cyclophora penduliniaria	Sweetfern Geometer	Savanna
Cycnia inopinatus	The Unexpected Milkweed Moth	Savanna or Sand Prairie
Cyperus houghtonii	Houghton's Nutsedge	Dune or Sand Prairie
Cypripedium calceolus var. parviflorum	Small Yellow Lady's-slipper	Savanna
Dichanthelium sabulorum var. thinium	Hemlock Panic-grass	Prairie
Dichomeris aleatrix	Aleatrix dichomeris	Prairie
Diervilla lonicera	Northern Bush-honeysuckle	Savanna
Drosera intermedia	Spoon-leaved Sundew	Bog or Sedge Meadow
Eleocharis melanocarpa	Black-fruited Spike-rush	Sedge Meadow or Wet Prairie
Eleocharis microcarpa	Small-fruited Spike-rush	Marsh or Sedge Meadow
Eleocharis wolfii	Wolf Spikerush	Wet Prairie
Emydoidea blandingii	Blanding's Turtle	Marsh or Sedge Meadow
Epigaea repens	Trailing Arbutus	Dune or Woodland
Epipaschia zelleri		Savanna
Eriophorum angustifolium	Narrow-leaved Cotton-grass	Sedge Meadow or Wet Prairie
Erynnis martialis	Mottled Duskywing	Savanna
Erynnis persius persius	Persius Dusky Wing	Savanna
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Eubaphe meridiana	A Moth	Savanna
Euchloe olympia	Olympia Marble	Dune or Sand Prairie
Eucoptocnemis fimbriaris	A Noctuid Moth	Sand Prairie or Dunes
Eucosma bilineana		Prairie
Eucosma bipunctella	A Moth	Prairie
Eucosma fulminana		Prairie
Eucosma giganteana		Prairie
Euphydryas phaeton	Baltimore	Fen or Sedge Meadow
Euphyes bimacula	Two-spotted Skipper	Prairie
Euphyes dion	Sedge Skipper	Wet Prairie or Sedge Meadow
Euxoa albipennis	White-striped Dart	Savanna
Euxoa aurulenta	Dune Cutworm	Dune
Fagitana littera	The Marsh Fern Moth	Marsh or Wet Prairie
Faronta rubripennis	The Pine Streak	Sand Prairie or Dunes
Fimbristylis puberula	Carolina Fimbry	Wet Prairie
Flexamia pyrops	The Long-nose Three-awn Leafhopper	Interdunal Wetlands
Flexamia reflexus	Indiangrass Flexamia	Prairie
Forest - floodplain wet	Wet Floodplain Forest	Forest
Forest - floodplain wet-mesic	Wet-mesic Floodplain Forest	Floodplain Forest
Forest - upland dry	Dry Upland Forest	Forest
Forest - upland dry-mesic	Dry-mesic Upland Forest	Forest
Forest - upland mesic	Mesic Upland Forest	Forest
Formica glacialis		Wet Prairie or Sedge Meadow
Fuirena pumila	Dwarf Umbrella-sedge	Marsh or Sedge Meadow
Gabara pulverosalis		Prairie
Gabara subnivosella	A Noctuid Moth	Prairie
Gentiana puberulenta	Downy Gentian	Prairie
Geranium bicknellii	Bicknell Northern Crane's-bill	Prairie or Savanna
Graminella mohri		Prairie or Savanna
Grammia anna	Anna's tiger moth	Prairie or Savanna
Grammia figurata	The Figured Grammia	Prairie or Savanna
Grammia phyllira	The Sand Barrens Grammia	Prairie
Grammia virguncula		Prairie
Hemaris gracilis	The Blueberry Clearwing Sphinx	Savanna
Hemicarpha drummondii	Drummond Hemicarpha	Sedge Meadow or Wet Prairie
Hesperia leonardus	Leonard's Skipper	Prairie
Hesperotettix viridis pratensis	A Grasshopper	Prairie or Savanna
Holomelina opella	The Smokey Holomelina	Prairie or Savanna
Hudsonia tomentosa	Sand-heather	Dune or Sand Prairie
Hydrastis canadensis	Golden Seal	Forest
Hypericum kalmianum	Kalm St. John's-wort	Marsh or Wet Prairie
Ixobrychus exilis	Least Bittern	Marsh or Wet Prairie

Juncus balticus var. littoralis	Baltic Rush	Sedge Meadow or Interdunal Wetlands
Juncus scirpoides	Scirpus-like Rush	Sedge Meadow or Wet Prairie
Lanius ludovicianus	Loggerhead Shrike	Prairie
Lasiurus borealis	Eastern Red Bat	Savanna or Forest
Lasiurus cinereus	Hoary Bat	Savanna or Forest
Lasius minutus		Wet Prairie or Sedge Meadow
Laterallus jamaicensis	Black Rail	Marsh or Sedge Meadow
Lathyrus venosus	Smooth Veiny Pea	Savanna
Lesmone detrahens	A Moth	Savanna or Prairie
Leucania inermis	A Moth	Prairie
Leucania linita	Salt Marsh Wainscot	Marsh
Liatris pycnostachya	Cattail Gay-feather	Prairie or Sedge Meadow
Limotettix divaricatus		Prairie
Liochlorophis vernalis	Smooth Green Snake	Prairie
Loxagrotis acclivis	A Noctuid Moth	Prairie
Ludwigia sphaerocarpa	Globe-fruited False-loosestrife	Marsh or Pond
Lycaeides melissa samuelis	Karner Blue	Savanna
Lycaena helloides	Purplish Copper	Marsh or Sedge Meadow
Lycopodiella inundata	Northern Bog Clubmoss	Bog or Sedge Meadow
Macrochilo absorptalis	A Moth	Prairie
Macrochilo hypocritalis	A Noctuid Moth	Prairie
Macrochilo louisiana		Prairie
Melanomma auricinctaria	Huckleberry Eye-spot Moth	Savanna
Melanoplus viridipes viridipes	Green-legged Spur-throated Grasshopper	Prairie
Meropleon diversicolor	A Noctuid Moth	Prairie
Mesamia nigridorsum	A Leafhopper	Prairie
Metanema determinata	Dark Metanema	Savanna or Prairie
Metanema inatomaria	Pale Metanema	Savanna or Prairie
Myosotis laxa	Smaller Forget-me-not	Fen or Sedge Meadow
Myrmica lobifrons		Wet Prairie or Sedge Meadow
Neoconocephalus exiliscanorus	A Katydid	Prairie
Neoconocephalus nebrascensis	A Katydid	Prairie
Nola cilicoides		Prairie or Savanna
Nola pustulata	Sharp-blotched Nola	Prairie or Savanna
Nycticorax nycticorax	Black-crowned Night-heron	Marsh or Pond
Odontosia elegans	Elegant Prominent	Sedge Meadow or Fen
Oenothera perennis	Small Sundrops	Prairie
Ophisaurus attenuatus attenuatus	Western Slender Glass Lizard	Sand Prairie
Orphulella pelidna	Green Desert Grasshopper	Sand Prairie or Dunes
Paectes abrostolella	The Barrens Paectes Moth	Prairie or Savanna
Panax quinquefolius	American Ginseng	Forest
Panicum boreale	Northern Witchgrass	Prairie, Marsh or Fen

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Panicum leibergii	Leiberg's Witchgrass	Prairie
Papaipema cerina	Golden Borer Moth	Prairie
Papaipema leucostigma	Columbine Borer	Savanna
Papaipema lysimachiae	The St. John'Swort Borer Moth	Sedge Meadow or Wet Prairie
Papaipema maritima	The Giant Sunflower Borer Moth	Prairie
Papaipema rigida	A Borer Moth	Prairie
Papaipema sciata	The Culver's Root Borer	Prairie
Papaipema silphii	Silphium Borer Moth	Prairie
Papaipema speciosissima	The Royal Fern Borer Moth	Wet Prairie or Interdunal Wetlands
Paraphlepsius lobatus		Prairie
Parasa indetermina	A Moth	Prairie or Fen
Peoria gemmatella	Gemmed Cordgrass Borer	Prairie
Peoria tetradella		Prairie or Savanna
Perideridia americana	Eastern Eulophus	Prairie or Savanna
Phaneta ochroterminana		Prairie or Savanna
Phaneta olivaceana		Prairie
Phaneta ornatula		Prairie
Phaneta raracana		Prairie
Phaneta striatana		Prairie
Phaneta umbrastriana		Prairie
Philaenarcys killa	Great Lakes dune spittlebug	Dune
Pinus banksiana	Jack Pine	Dune or Savanna
Plantago cordata	Heart-leaved Plantain	Seeps or Springs
Platanthera ciliaris	Yellow-fringe Orchis	Bog or Savanna
Platanthera flava var. herbiola	Pale Green Orchis	Prairie
Platanthera psycodes	Small Purple-fringe Orchis	Wet Prairie or Floodplain Forest
Platyperigea meralis	The Rare Sand Quaker	Savanna
Platyperigea multifera	Dune rustic	Dune
Poanes viator viator	Big Broad-winged Skipper	Marsh and Sedge Meadow
Polyamia caperata	Little Bluestem Polyamia	Prairie
Polyamia herbida	The Prairie Panic Grass Leafhopper	Prairie
Polyamia obtectus	Sand Panic Grass Leafhopper	Prairie
Polygonella articulata	Eastern Jointweed	Dune and Sand Prairie
Polygonum careyi	Carey's Smartweed	Prairie or Savanna
Polygonum hydropiperoides var. opelousanum	Northeastern Smartweed	Wet Prairie or Sedge Meadow
Prairiana kansana	The Kansas Prairie Leafhopper	Prairie
Prairie - dry-mesic	Dry-mesic Prairie	Prairie
Prairie - mesic	Mesic Prairie	Prairie
Prairie - sand dry	Dry Sand Prairie	Prairie
Prairie - sand dry-mesic	Dry-mesic Sand Prairie	Prairie
Prairie - sand mesic	Mesic Sand Prairie	Prairie
Prairie - sand wet	Wet Sand Prairie	Prairie
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Selaginella rupestrisLedge Spike-mossDune or SavannaSemiothisa eremiataThe Goat's Rue LooperPrairie or SavannaSemiothisa mellistrigataA Geometrid MothPrairieSemiothisa multilineataPrairieSitochroa dasconalisPearly Indigo BorerPrairieSolidago ptarmicoidesPrairie GoldenrodPrairieSpartiniphaga inopsSpartina Borer MothMarsh or Wet PrairieSpermophilus frankliniiFranklin's Ground SquirrelPrairie or SavannaSpeyeria aphroditeAphrodite FritillaryPrairieSpiranthes lucidaShining Ladies'-tressesFen or Sedge MeadowSpiranthes nagnicamporumGreat Plains Ladies'-tressesPrairieStrophostyles leiospermaSlick-seed Wild-beanPrairie or SavannaSturnella neglectaWestern MeadowlarkPrairieTampa dimediatellaRed-striped Panic Grass MothPrairie	beep faiter i ertage barne traterinaj	, accioned	
Problema bysusBunchgrass SkipperPrairieProcambarus gracilisPrairie (TayfishMarsh and Wet PrairieProsapia ignipectusRed-legged Spittle BugPrairie or SavannaProtorthodes incinctaSaturn quakerPrairie or SavanaPrunus pensylvanicaFire CherryDune or Sand SavannaPsudopomala brachypteraBunch Grass LocustSavannaPsilotar fine strailsSand LocustSand Prairie or Sand SavannaPygarctia spragueiSprague's PygarticSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRallus simicolaVirginia RailMarsh or Sedge MeadowRus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieRubus setosusSmall FisteberryPrairieSavanna - sand dryDry Sand SavannaSavannaSavanna	Prairie - sand wet-mesic	Wet-mesic Sand Prairie	Prairie
Procambarus gracilisPrairie CrayfishMarsh and Wet PrairieProsapia ignipectusRed-legged Spitte BugPrairie or SavanaProtorthodes incinctaSaturn quakerPrairie or SavanaProuns pensylvanicaFire CherryDune or Sand SavannaPseudopomala brachypteraBunch Grass LocustSavanna vana vanaPsilocarya scirpoidesLong-beaked BaldrushMarsh or Sedge MeadowPsindia fenestralisSand LocustSand Prairie or Sand SavannaPygarctia spragueiSprague's PygarticSand Prairie or Sand SavannaPygarctia spragueiKing RailMarsh or Sedge MeadowRallus limicolaVirginia RailMarsh or Sedge MeadowRalus limicolaVirginia RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or Sedge MeadowRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieSavanna - mesicMesic SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSchoenoplectus halliiHall's BulrushSedge Meadow or MarshSchina septentrionalisA Noctuid NothSedge Meadow or MarshSchina septentrionalis-SavannaSchina septentrionalis-SavannaSchina septentrionalis-SavannaSchina septentrionalis-Prairie or SavannaSchina peristiaLedge Spike-mossDune or	Prenanthes aspera	Rough Rattlesnake-root	Prairie and Savanna
Prosapia ignipectusRed-legged Spittle BugPrairie or SavanaProtorbodes incinctaSaturn quakerPrairie or SavanaPrunus pensylvanicaFire CherryDune or Sand SavannaPseudopomala brachypteraBunch Grass LocustSavannaPsilocarya scirpoidesLong-beaked BaldrushMarsh or Sedge MeadowPyaratta is pragueiSprague's PygarticSand Prairie or Sand SavannaPygarctia spragueiSprague's PygarticSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRalus elegansNorthern Leopard FrogMarsh or Sedge MeadowRhus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora macrostachyaTall Beaked-rushSedge Meadow or Wet PrairieSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dryDry-mesic Sand SavannaSavannaSchina indinaPhlox MothPrairie or SavannaSchina indinaPhlox MothSavannaSchina indinaPhlox MothSavannaSchina indinaPhlox MothSavannaSchina indinaPhlox MothSavannaSchina indinaPhlox MothSavannaSchina indinaPhlox MothSavannaSchina indin	Problema byssus	Bunchgrass Skipper	Prairie
Protorthodes incinctaSaturn quakerPrairie or SavanaPrunus pensylvanicaFire CherryDune or Sand SavannaPseudopomala brachypteraBunch Grass LocustSavannaPsilocarya scippidesLong-beaked BaldrushMarsh or Sedge MeadowPsinidia fenestralisSand LocustSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaPyrausta laticlaviaKing RailMarsh or Sedge MeadowRallus elgansKing RailMarsh or Sedge MeadowRallus elgansNorthern Leopard FrogMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or Sedge MeadowRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieSavanna - mesicMesic SavannaSavannaSavanna - sand dryDry Sad SavannaSavannaSavanna - sand dry-mesicDry-mesic Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchinia petentrionalisA Noctuid MothSavannaSciprophaga perstrialisSavannaSciprophaga perstrialisSavannaSemiothisa mellistrigataA Geometrid MothPrairieSemiothisa mellistrigataA Geodr's Rue LooperPrairieSemiothisa multilineataPrairieSitochroa dasconalisParifie GlodenrodPrairieSpartinighaga inopsSpartina Borer MothMarsh or Vet Prairi	Procambarus gracilis	Prairie Crayfish	Marsh and Wet Prairie
Protorthodes incinctaSaturn quakerPrairie or SavanaPrunus pensylvanicaFire CherryDune or Sand SavannaPseudopomala brachypteraBunch Grass LocustSavannaPsilocarya scippidesLong-beaked BaldrushMarsh or Sedge MeadowPsinidia fenestralisSand LocustSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaPyrausta laticlaviaKing RailMarsh or Sedge MeadowRallus elgansKing RailMarsh or Sedge MeadowRallus stegansNorthern Leopard FrogMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or Sedge MeadowRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieSavanna - mesicDry Sand SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dry-mesicDry-mesic Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchinia septentrionalisA Noctuid MothSavannaScierophaga perstrialisSavannaScierophaga perstrialisPrairie or SavannaSemiothisa multilineataPrairieSitochoa dasconalisPearly Indigo BorerPrairieSemiothisa multilineataPrairieSitochoa dasconalisPearly Indigo BorerPrairieSpartiniphaga inopsSpartin Borer MothMarsh or Vet Prairie <th>Prosapia ignipectus</th> <th>Red-legged Spittle Bug</th> <th>Prairie or Savanna</th>	Prosapia ignipectus	Red-legged Spittle Bug	Prairie or Savanna
Pseudopomala brachypteraBunch Grass LocustSavannaPsilocarya scirpoidesLong-beaked BaldrushMarsh or Sedge MeadowPsindia fenestralisSand LocustSand Prairie or Sand SavannaPyrgarctia spragueiSprague's PygarticSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or Sedge MeadowRhus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieRubus setosusSmall BristleberryPrairieSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dry-mesicDry-mesic Sand SavannaSavannaSchina indianPhlox MothPrairie or SavannaSchina septentrionalisA Noctuid MothSedge Meadow or Wet PrairieSchoenoplectus halliiHall's BulrushSedge Meadow or Wet PrairieSelaginella rupestrisLedge Spike-mossDune or SavannaSchoenoplectus halliiHall's BulrushSedge Meadow or Wet PrairieSelaginella rupestrisLedge Spike-mossDune or SavannaSchoenoplectus halliiHall's BulrushSedge Meadow or Wet PrairieSelaginella rupestrisLedge Spike-mossDune or SavannaSelaginella rupestrisPearly Indigo BorerPrairie or SavannaSemiot	Protorthodes incincta		Prairie or Savana
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Psinidia fenestralisSand LocustSand Prairie or Sand SavannaPygarctia spragueiSprague's PygarticSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus limicolaVirginia RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or Sedge MeadowRhus aromatica var, arenariaBeach SumacDune and Sand PrairieRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieRubus setosusSmall BristleberryPrairieSavanna - sand dryDry-Mesic SavannaSavannaSavanna - sand dryDry-Mesic Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchinia septentrionalisA Noctuid MothSavannaSchina indianaPhlox MothSedge Meadow or Wet PrairieSchina indianaPhlox MothSavannaSchina indianaPhlox MothSedge Meadow or MarshSchina indianaPhlox MothSedge Meadow or MarshSchina indianaPhlox MothSedge Meadow or MarshSchina indianaPhlox MothSedge Meadow or Wet PrairieSchoenoplectus halliiHall's BulrushSedge Meadow or Wet Pra	Pseudopomala brachyptera	Bunch Grass Locust	Savanna
Pygarctia spragueiSprague's PygarticSand Prairie or Sand SavannaPyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRalus limicolaVirginia RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or PrairieRhus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieRubus setosusSmall BristleberryPrairieSavanna - sand dryDry Sand SavannaSavannaSavanna - sand dryDry Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchinia septentrionalisA Noctuid MothSvanna or Sand PrairieSchonoplectus halliiHall's BulrushSedge Meadow or Wet PrairieSelaginella rupestrisLedge Spike-mossDune or SavannaSemiothisa mellistrigataA Geometrid MothPrairie or SavannaSemiothisa mellistrigataA Geometrid MothPrairieSolidago ptarmicoidesPrairie GoldenrodPrairieSpartini Baga inopsSpartina Borre MothMarsh or Wet PrairieSpartiniphaga inopsSpartina Borre MothMarsh or Wet PrairieSpiranthes magnicamporumGreat Plains Ladies'-tressesFen or Sedge MeadowSpiranthes lucidaShining Ladies'-tressesFen or Sedge Meadow <trr>Spiranthes lucidaShining Lad</trr>	Psilocarya scirpoides	Long-beaked Baldrush	Marsh or Sedge Meadow
Pyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRalus limicolaVirginia RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or PrairieRhus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieSavana - sand dryDry Sand SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchinia septentrionalisA Noctuid MothSavannaSchoenoplectus halliiHall's BulrushSedge Meadow or Wet PrairieSelaginella rupestrisLedge Spike-mossDune or SavannaSemiothisa mellistrigataA Geometrid MothPrairie or SavannaSemiothisa mellistrigataA Geometrid MothPrairieSolidago ptarmicoidesPrairie GoldenrodPrairieSpartiniphaga inopsSpartina Borre MothMarsh or Wet PrairieSpiranthes lucidaShining Ladies'-tressesFen or Sedge MeadowSpiranthes magnicamporumGreat Plains Ladies'-tressesFen or Sedge MeadowSpiranthes magnicamporumGreat Plains Ladies'-tressesFen or Sedge MeadowSpiranthes lucidaShining Ladies'-tressesFen o	Psinidia fenestralis	Sand Locust	Sand Prairie or Sand Savanna
Pyrausta laticlaviaThe Southern Purple Mint MothSand Prairie or Sand SavannaRallus elegansKing RailMarsh or Sedge MeadowRalus limicolaVirginia RailMarsh or Sedge MeadowRana pipiensNorthern Leopard FrogMarsh or PrairieRhus aromatica var. arenariaBeach SumacDune and Sand PrairieRhynchospora macrostachyaTall Beaked-rushMarsh or Sedge MeadowRhynchospora recognitaGlobe Beaked-rushSedge Meadow or Wet PrairieSavana - mesicMesic SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSavana - sand dryDry Sand SavannaSavannaSchinia indianaPhlox MothPrairie or SavannaSchonoplectus halliiHall's BurushSedge Meadow or Wet PrairieSchonoplectus halliiHall's BurushSedge Meadow or Met PrairieSclipophaga perstrialis-SavannaSemiothisa mellistrigataA Geometrid MothPrairie or SavannaSemiothisa mellistrigataA Geometrid MothPrairieSemiothisa mellistrigataA Geometrid MothPrairieSolidago ptarmicoidesPrairie GoldenrodPrairieSpartiniphaga inopsSpartina Borre MothMarsh or Wet PrairieSpiranthes lucidaShining Ladies'-tressesFen or Sedge MeadowSpiranthes lucidaShining Ladies'-tressesFen or Sedge MeadowSpiranthes lucidaShining Ladies'-tressesFen or Sedge MeadowSpiranthes lucida	Pygarctia spraguei	Sprague's Pygartic	Sand Prairie or Sand Savanna
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Tampa dimediatella Red-striped Panic Grass Moth Prairie	Sturnella neglecta	Western Meadowlark	Prairie
	Talinum rugospermum	Prairie Fame-flower	Sand Savanna
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mannophis proximus proximus vestern Ribbon Shake Sand Praine	Thamnophis proximus proximus	Western Ribbon Snake	Sand Prairie

Thorybes pylades	Northern Cloudywing	Prairie or Savanna
Tricholita notata	Marked Noctuid	Prairie
Trichosilia manifesta	The Record Keeper Moth	Prairie
Trichostema dichotomum	Forked Bluecurl	Savanna or Dry Sand Prairie
Trimerotropis maritima	The Dune Locust	Dunes
Utricularia purpurea	Purple Bladderwort	Pond or Marsh
Utricularia subulata	Zigzag Bladderwort	Sedge Meadow or Wet Prairie
Utricularia subulata	Zigzag Bladderwort	Sedge Meadow or Wet Prairie
Venustaconcha ellipsiformis	Ellipse	River or Stream
Viburnum opulus var. americanum	Highbush-cranberry	Fen or Seep
Wetland - fen	Fen	Fen
Wetland - marsh	Marsh	Marsh
Wetland - marsh	Marsh	Marsh
Wetland - meadow sedge	Sedge Meadow	Sedge Meadow
Wetland - swamp shrub	Shrub Swamp	Shrub Swamp
Xanthocephalus xanthocephalus	Yellow-headed Blackbird	Marsh
Zomaria interruptolinea		Savanna