

**Senej National Wildlife Refuge Butterfly List**

This butterfly list was developed from literature search and observations on the Refuge. Literature included: Nielson, Morgan C. 1999. Michigan Butterflies and Skippers: A Field Guide and Reference. Michigan State University Extension, Michigan State University. **Bolded** species that are likely or irregular in the Upper Peninsula added from: Mueller, Steve. 1994. Michigan Audubon Society Butterfly Field Checklist for Michigan. Ody Brook Enterprises, Cedar Springs, Michigan. Habitat information for **bolded** species from: Lotts, Kelly and Thomas Naberhaus, coordinators. 2014. Butterflies and Moths of North America. <http://www.butterfliesandmoths.org/>. Highlighted cells indicates butterflies that have been observed on the Refuge, at least once, according to the North American Butterfly Survey's of 1994-1996, 1998-1999, 2002-2004 for Fox River-Senej, Michigan. Conservation status: 1, Region 3 Conservation Priorities (USFWS 2002), 2, Regional Forester Sensitive (USFS 2003), 3, Michigan Special Animal (1999).

Common Name	Scientific Name	Habitat
<b>Swallowtails</b>		
Black Swallowtail	<i>Papilio polyxenes asterius</i>	Old Fields, vacant rural and urban lots, farmland.
Canadian Tiger Swallowtail	<i>Papilio canadensis</i>	Pine barrens, aspen forest openings and edges, roadsides and stream margins.
<b>Whites &amp; Sulphurs</b>		
Mustard White	<i>Pieris napi</i>	Floodplain forests and other shrubby wetlands and roadsides.
West Virginia White	<i>Pieris virginiensis</i>	Usually restricted to Northern Hardwood forests and edges.
Cabbage White	<i>Pieris rapae</i>	Gardens, roadsides, old fields and disturbed areas.
<b>Checked White</b>	<i>Pontia protodice</i>	Old fields, sandy areas, railroad beds, and roads
Olympia Marble	<i>Euchloe olympia</i>	Open woodlands, oak-pine barrens on sandy soils.
<b>Large Marble</b>	<i>Euchloe ausonides</i>	Valleys, hillsides, fields, meadows, and other open sunny areas
Clouded Sulphur	<i>Colias philodice Godart</i>	Open areas, clover and alfalfa fields, roadsides and disturbed areas.
Orange Sulphur	<i>Colias eurytheme</i>	Open areas, alfalfa and red clover fields, right-of-way and wet areas
Pink-edged Sulphur	<i>Colias interior</i>	Blueberry bogs and oak-pine barrens, recently burned pine barrens with abundance of blueberry, along trails
Little Sulphur	<i>Eurena lisa</i>	Fields, roadsides and gardens, also Great Lakes coastal areas
<b>Harvester, Coppers, Hairstreaks, Blues</b>		
Harvester	<i>Feniseca tarquinius</i>	Deciduous forests, flood plains and alder-bordered stream banks.
American Copper	<i>Lycaena phlaeas</i>	Old fields and disturbed areas, including weedy residential lots.
Bronze Copper	<i>Lycaena hylus</i>	Wet Meadows, marshes and stream borders with sedges and wild irises
Bog Copper	<i>Lycaena epixanthe michiganensis</i>	Restricted to sphagnum-heath acid bogs
Dorcas Copper	<i>Lycaena dorcas</i>	Wet meadows, fens, seeps, inland lake margins and some Great Lakes coastal areas.
Pupleish Copper	<i>Lycaena helioides</i>	Roadsides, fields, disturbed areas, sedge marshes, and other wetlands.
Coral Hairstreak	<i>Satyrium titus</i>	Open areas, forest edges, roadsides and old fields beginnin to revert to shrub-forest
Banded Hairstreak	<i>Satyrium calanus falacer</i>	Forest openings and edges, old fields and roadsides
Stippled Hairstreak	<i>Satyrium liparops strigosum</i>	Oak-pine Barrens
<b>Acadian Hairstreak</b>	<i>Satyrium acadica</i>	Willow-lined streams, marshes, moist woodlands
Brown Elfin	<i>Incisalia augustinus</i>	Sphagnum-heath bogs and pine-barrens in Northern counties
Hoary Elfin	<i>Incisalia polia</i>	Oak-pine barrens, along great lakes dunes.
Henry's Elfin	<i>Incisalia henrici</i>	Open oak-pine barrens, forest openings/edges and swam borders
Eastern Pine Elfin	<i>Incisalia niphon clarki</i>	Open pine barrens, forest edges and roadsides.
Western Pine Elfin	<i>Incisalia eryphon</i>	Coniferous forest edges and openings, along roads and trails bordered by white pine.
Early Hairstreak	<i>Erora laetus</i>	Openings, edges and sun dappled trails in Northern hardwoods containing beech
Eastern Tailed Blue	<i>Evers comyntas</i>	Prairies, old fields, pastures and disturbed areas with a variety of legumes
<b>Western Tailed Blue</b>	<i>Cupido amyntula</i>	Open areas with low shrubs including chaparral, meadows, and open woodlands
Northern Spring Azure	<i>Celastina lucia</i>	Forest openings and edges and along forest trails.
Northern Blue	<i>Lycaeides idas nabokovi</i>	Openings in pine barrens and on rock outcroppings.
<b>Silvery Blue</b>	<i>Glaucopsyche lygdamus</i>	Open woods, coastal dunes, prairies, meadows, road edges, rocky moist woods, and brushy fields
Greenish Blue	<i>Plebejus saepiolus</i>	Old fields, forest openings, and roadsides
<b>Brushfoots</b>		
Variagated Fritillary	<i>Euptoieta claudia</i>	Meadows, disturbed areas, pastures, streamsides and bogs.
Krautwurm's Fritillary	<i>Speyeria cybele cybele</i>	Forest openings and edges, forest roads and trails, and old fields.
Aphrodite Fritillary	<i>Speyeria aphrodite</i>	Oak-pine barrens, upland fields, prairies and roadsides.
Atlantis Fritillary	<i>Speyeria atlantis</i>	Canadian zone forest openings and edges, old fields and roadsides.
Bog Fritillary	<i>Boloria eunomia dawsoni</i>	Restricted to open sphagnum-heath bogs
Bog Silver-bordered Fritillary	<i>Boloria selene atrocatalis</i>	Bogs and adjacent trails and roadsides.
Meadow Fritillary	<i>Boloria bellona</i>	Moist meadows, pastures, old fields and clearing being invaded by violets
Frigga Fritillary	<i>Boloria frigga saga</i>	Sphagnum-heath bogs with dwarf birch
<b>Freija Fritillary</b>	<i>Boloria freija</i>	Open bogs, taiga, edges of open black spruce bogs, and pine forests
Silvery Checkerspot	<i>Chlosyne nycteis</i>	Floodplain forest openings, meadows, marshes and roadsides
Harris' Checkerspot	<i>Chlosyne harrisii</i>	Marsh edges, moist pastures, meadows, wet ditches and roadsides.
<b>Gorgone Checkerspot</b>	<i>Chlosyne gorgone</i>	Open areas including ridges, prairies, streamsides, open hardwood forests, old fields, and forest edges

Northern Pearl Crescent	<i>Phyciodes selenis</i>	Forest openings and edges, old fields, streamsides and roadsides.
Tawny Crescent	<i>Phyciodes batesii</i>	Meadows, pastures, old fields, stream banks and roadsides.
Baltimore Checkerspot	<i>Euphydryas phaeton</i>	Brushy swamps, marshes, wet meadows and oak-pine barrens.
Question Mark	<i>Polygonia interrogatoris</i>	Forest openings, edges and trails, roadsides and streamsides.
Common Merchant	<i>Polygonia comma</i>	Forest openings, edges and trails, swamps and streamsides.
Satyr Anglewing	<i>Polygonia satyrus</i>	Forest openings, edges, along streams, pine barrens and roadsides.
Green Comma	<i>Polygonia faunus</i>	Usually in coniferous forests and trails in Canadian Zones.
Hoary Comma	<i>Polygonia gracilis</i>	Boreal forest openings and edges, stream margins and trails.
Gray Comma	<i>Polygonia progne</i>	Forests, swamps, pine barrens and trails.
Compton Tortoise Shell	<i>Nymphalis vau-album j-album</i>	Forest openings, edges and trails.
Mourning Cloak	<i>Nymphalis antiopa</i>	Forest openings, edges, swamp, meadows, stream margins and roadsides.
Milbert's Tortoise Shell	<i>Nymphalis milberti</i>	Swamp and marsh edges, meadows, wet pastures, stream margins and roadside ditches.
American Painted Lady	<i>Vanessa virginiensis</i>	Old fields, prairies, meadows, disturbed areas and roadsides.
Painted Lady	<i>Vanessa Cardui</i>	Old fields, disturbed areas, pastures and meadows.
Red Admiral	<i>Vanessa atalanta</i>	Swamp openings and edges, marshes, meadows, disturbed areas, and rural and urban gardens and Old fields, pastures, meadows, disturbed areas, coastal dunes and roadsides.
Buckeye	<i>Junonia coenia</i>	Old fields, pastures, meadows, disturbed areas, coastal dunes and roadsides.
White Admiral	<i>Limnitis arthemis</i>	Northern forest openings, edges, trails and roadsides.
Viceroy	<i>Limnitis archippus</i>	Marshes, meadows, stream and lake margins and roadside ditches.
<b>Satyrs, Wood Nymphs and Arctics</b>		
Northern Pearly-eye	<i>Enodia anthedon</i>	Deciduous forests, swamps and edges and along streams.
Eyed Brown	<i>Satyodes eurydice</i>	Open sedge, meadows and edges.
Little Wood-Satyr	<i>Megisto cymela</i>	Deciduous forests, openings, edges, oak-pine barrens, fens, and brushy old fields.
<b>Common Ringlet</b>	<i>Coenonympha tullia</i>	Grassy, open areas including fields, meadows, grasslands, and tundra.
Inornate Ringlet	<i>Coenonympha tullia inornata</i>	Open Northern forests, grassy old fields, meadows and roadsides.
Wood Nymph	<i>Cercyonis pegala nephele</i>	Prairies, meadows, brushy fields, disturbed areas and roadsides.
<b>Red-disked Alpine</b>	<i>Erebia discoidalis</i>	Large, open, grassy bogs; other areas with acidic soils.
<b>Macoun's Arctic</b>	<i>Oeneis macounii</i>	Openings in forests of western jack or lodgepole pine.
Chryxus Arctic	<i>Oeneis chryxus strigulosa</i>	Open jack pine barrens, dry grassy openings and open brushy ridges.
Jutta Arctic	<i>Oeneis jutta ascerta</i>	Black spruce-tamarack-sphagnum bog openings and edges.
<b>Milkweed Butterflies</b>		
Monarch	<i>Danaus plexippus</i>	Old fields, meadows, prairies, disturbed areas and roadsides.
<b>Skippers</b>		
Northern Cloudy Wing	<i>Thorybes pylades</i>	Open forests and edges, brushy fields, oak-pine barrens and roadsides.
Dreamy Dusky Wing	<i>Erynnis icelus</i>	Open forest, especially aspen in Northern areas, edges, cut-over forest brushy fields, bogs, disturbed areas and Oak or oak-pine scrub, chaparral, barrens; on well-drained sandy or shaly soils.
<b>Sleepy Duskywing</b>	<i>Erynnis brizo</i>	Scrub oak woods, edges, cut-over forests and roadsides.
Juvenal's Duskywing	<i>Erynnis juvenalis</i>	Rocky deciduous or mixed woodland and edges, especially in ravines or outcrops.
<b>Columbine Duskywing</b>	<i>Erynnis lucilius</i>	Open areas including mountain grasslands, marshes, sand plains, seeps, and streamsides.
<b>Persius Duskywing</b>	<i>Erynnis persius</i>	Forest openings and edges, stream margins, bogs and swamps.
Arctic Skipper	<i>Carterocephalus palaemon mandan</i>	Streamsides, marsh borders, brushy swamps, ditches and along drains.
Least Skipper	<i>Ancylorhiza numitor</i>	Sunny open areas including forest openings and edges, meadows, and fields.
<b>Common Branded Skipper</b>	<i>Hesperia comma</i>	Grassy fields, pastures, prairies, urban areas, parks and roadsides.
European Skipper	<i>Thymelicus lineola</i>	Open areas, fields, meadows, roadsides and lakeshore.
Laurentian Skipper	<i>Hesperia comma laurentina</i>	Meadows, tall-grass prairies, oak-pine barrens and roadsides.
Leonard's Skipper	<i>Hesperia leonardus</i>	Old fields, prairies, cut-over areas, oak-pine barrens and roadsides.
Indian Skipper	<i>Hesperia sassacus</i>	Meadows, old fields, urban yards and parks, right-of-way and roadsides.
Peck's Skipper	<i>Polites peckius</i>	Moist areas including marshes, prairies, fields, roadsides, and suburban yards.
<b>Delaware Skipper</b>	<i>Anatrytone logan</i>	Meadows, old fields, pastures, swales, disturbed areas, barrens and roadsides.
Tawny-edge Skipper	<i>Polites themistocles</i>	Old fields, prairies and oak barrens.
Crossline Skipper	<i>Polites origenes</i>	Marsh and forest edges, and wetlands along stream and roads.
Long Dash	<i>Polites mystic</i>	Forest openings and edges, meadows, disturbed areas and roadsides.
Hobomok Skipper	<i>Poanes hobomok</i>	Sedgy marshes, wet meadows and roadsides.
Two-spotted Skipper	<i>Euphyes bimaacula</i>	Meadows, swamp and marsh edges, disturbed areas and roadsides.
Dun Skipper	<i>Euphyes vestris</i>	Small, sunny forest openings, swamp edges and other partially shaded moist areas.
Pepper and Salt Skipper	<i>Amblyscirtes hegon</i>	Forest openings and edges, oak-pine barrens, prairies and roadsides.
Roadside Skipper	<i>Amblyscirtes vialis</i>	

**Others that were recorded (Year):**

Eastern Tiger Swallowtail (1999)	<i>Papilio glaucus</i>
Spring Azure (1994)	<i>Celastrina ladon</i>
Great Spangled Fritillary (2013, 1999, 1998, 1996, 1995, by visitor)	<i>Speyeria cybele</i>
Black Skipper (1998)	?
Summer Azure (2013 by visitor)	<i>Celastrina neglecta</i>
Northern Crescent (2013 by visitor)	<i>Phyciodes cocyta</i>
Dion Skipper (2013 by visitor)	<i>Euphyes dion</i>
Acadian hairstreak (2007, Dee Phinney)	<i>Satyrus acadica</i>
Snout Butterfly (2013, Rod Planck)	<i>Libytheana carinenta</i>