

Shiawassee National Wildlife Refuge  
6975 Mower Road  
Saginaw, MI 48601  
(989) 777-5930

Website address:  
<http://www.fws.gov/refuge/shiawassee>

Individuals with hearing impairments may reach  
the refuge through the Federal Information Relay  
System at (800) 877-8339 (V/TTY)

Like us on Facebook:  
<http://www.facebook.com/ShiawasseeNWR>



U.S. Fish & Wildlife Service

# Shiawassee

*National Wildlife Refuge*



*Over 10,000 years ago Shiawassee National Wildlife Refuge was blanketed by a large glacial lake that etched out the flat terrain and the area's nickname – The Flats. Today, it is one of the largest and most productive wetland ecosystems in Michigan.*





*This “Blue Goose,” designed by J.N. “Ding” Darling, has become a symbol of the National Wildlife Refuge System.*

Shiawassee National Wildlife Refuge (NWR) is one of over 560 refuges in the National Wildlife Refuge System, a network of U.S. lands and waters protected and managed for wildlife, habitat and people by the Department of Interior’s U.S. Fish and Wildlife Service.

### **A Look Back at the Flats**

Over 10,000 years ago, much of east-central Michigan, including the present-day Shiawassee National Wildlife Refuge, was covered by a large, glacial lake. You can still see the evidence of this ancient lakebed as you look across the landscape. The terrain is very flat, hence the reason why many people call this area “The Flats.”

The first people came here approximately 5,000 years ago. This area was an attractive hunting and gathering area for many early cultures and later Native American tribes, like the Odawa and Ojibwa. Ducks and geese flocked to this vast area of wetlands and rivers. Other animals including otter, fisher, marten, elk, moose, and bear were also found here.

The Flats was thought of as a swampy wilderness area and received little human impact until the late 1800s when the lumber industry expanded into this area. Coal mining began in the early 1900s and lasted until the late 1930s. In 1903 farmers began converting the land for crops and by 1950, a system of pumps, drainage tile, ditches and dikes were in place, making this an extensive agricultural area.



*Refuge Sunset,*  
Myles Willard



### **Where Waters Meet**

Shiawassee NWR was established in 1953 to restore and enhance this historically significant wetland area for migratory waterfowl. The refuge contains over 9,800 acres of bottom-land-hardwood forests, marshes, pools, fields and croplands. Four rivers meet on the refuge – the Tittabawassee, Flint, Cass and Shiawassee.

*Green Darner,* Steve Gasser



*Blanding's Turtle*, Kim LeBlanc

### Hours

The refuge headquarters, located at 6975 Mower Road, is open 7:30 a.m. to 4:00 p.m., Monday through Friday throughout the year; closed all federal holidays. Refuge visitors are welcome to stop by if they have questions or need assistance.

### Rules and Regulations

Enjoy your visit, but remember protecting wildlife, plants and their habitats is our priority. Regulations exist for the welfare of wildlife, as well as for your safety. Please read and comply with the following list of regulations. *This list is not inclusive.*

- Obey posted "Closed Area" and "Refuge Boundary" signs
- Stay on established roads and trails
- Boating is allowed only on navigable waterways flowing through the refuge



*Trumpeter Swan and Bronze Copper*, Kim LeBlanc



*Sandhill Crane Colt*, Ed DeVries, USFWS  
*Hooded Merganser*, Kim LeBlanc

### *The following are prohibited!*

- Possession of alcoholic beverages
- Dogs, horses and other pets
- Collecting, removing, or damaging artifacts, plants or animals, including insects
- Releasing animals of any kind
- Snowmobiles, ATVs, and other motorized vehicles within the refuge boundaries
- Boat access into the marsh and pool units of the refuge
- Overnight mooring of watercraft in all areas of refuge
- Camping
- Open fires
- Fireworks
- Spotlighting wildlife
- Littering

## *Environmental Education*



*Program at Green Point, Joy Clark*

## *Hiking*



*Common Yellowthroat, S. Gasser*

## *Woodland Trail*

### **The Public Is Welcome!**

You and your students can explore the refuge on your own or participate in a guided activity. Our Green Point Environmental Learning Center, located at 3010 Maple Street in Saginaw, provides a variety of environmental education programs for children and adults. Hiking trails, interpretive displays, and a wildlife viewing area provide numerous study sites. Visitors are welcome to stop by, but groups need to schedule their visits in advance by contacting Green Point at (989) 759-1669.

The refuge maintains public trails that highlight the unique features of the area. These trails are open year round, seven days a week, during daylight hours. Please note that hours and access to the trails may be limited during hunt periods and seasonal flooding.

The Woodland Trail, at Center and Stroebel Roads, offers 4.5 miles of trails through bottomland hardwood forest. A large pile of shale and a railroad bed left over from the coal mining period of the early 1900s are found on this trail. Trail use may be limited due to seasonal flooding and wet conditions.

## *Ferguson Bayou Trail*



*Bald Eagle, Kim LeBlanc*

## *Cass River*

The Ferguson Bayou Trail, at the west end of Curtis Road, has over 4.5 miles of trails. This National Recreation Trail follows dikes and provides views of croplands, sloughs, forest, fields, wetlands and pools. There are four observation decks - one in the parking lot and three along the trail. Two observation decks have spotting scopes, to offer you a closer look at ducks, geese, deer and other wildlife.

The Cass River Unit in Bridgeport near I-75 has about 2 miles of mowed trails that meander through upland forest and along the Cass River. Trail use may be limited due to seasonal flooding and wet conditions.

## *Green Point Environmental Learning Center*

Green Point Environmental Learning Center in Saginaw offers over 2.5 miles of trails for hiking and cross-country skiing. Trail use may be limited due to seasonal flooding and wet conditions.

## *Bicycling*



*T & J Reuther*

## *Cross-Country Skiing*

The Woodland and Ferguson Bayou Trails and the Cass River Unit are open to bicycles. Bicycles are not allowed at Green Point Environmental Learning Center.

Trails are not groomed, but most can accommodate skiers.

## *Wildlife Drive Auto Tour*

The Wildlife Drive begins at the west end of Curtis Road. It is 7.5 miles long and meanders past forests, grasslands, marshes, open water pools and the Shiawassee River. Open May 1-October 5, sunrise to sunset. Route may be closed due to flooding or special conditions.

## *Photography*

There is one photo blind available along the Ferguson Bayou Trail overlooking a wetland.

## *Fishing*



*Becky Goche, USFWS*

Bank fishing is allowed at designated spots along the Tittabawassee River at Green Point Environmental Learning Center and off the Woodland Trail. Bank fishing is also available at the boat launch on the Cass River off of highway M-13 and at the Cass River Unit in Bridgeport. Boat fishing is allowed on navigable waterways flowing through the refuge. Boat access into the marsh and pool units of the refuge is not allowed.

## *Hunting*



*Ed Devries, USFWS*

Portions of the refuge may be open to goose and deer hunting by special permit only. Details about the hunting programs are available by contacting the refuge headquarters or visiting the refuge website.

### **Volunteers WANTED!**

*Share your special talents and skills as you assist refuge staff. You could collect biological data, perform light maintenance, or help out with special events. If you are interested, contact the refuge volunteer coordinator:*



*Dunlins*, Steve Gasser



### Important Bird Area

The refuge's diverse habitats and land management practices result in a great variety of wildlife species occurring here. Over 280 species of migratory birds, including raptors, shore and wading birds, and more than 100 song-bird species visit the refuge annually. Shiawassee NWR is designated as a United State Important Bird Area for its global significance to migratory waterfowl. During peak populations in late October, up to 25,000 Canada geese and 40,000 ducks are present. See the refuge's bird brochure for more information.



*Northern Cardinal*, Doug Hardesty



Wildlife enthusiasts may see or hear muskrat, beaver, coyote, snapping and painted turtles, white-tailed deer, garter and fox snakes, leopard frogs, and a variety of insects and spiders. Patience and knowing where to look are key to seeing many of these creatures.

*Wood Duck*, Tom Kerr, USFWS

*Muskrat*, J. Mattsson, USFWS



*Mallards*, Kim LeBlanc



*Short-eared Owl*,  
Kim LeBlanc



*Great Egrets*,  
Kim LeBlanc

### Wetland and Wildlife Management

The large central portion of the refuge is composed of managed wetlands. Controlling the level of water in these areas is the refuge's most important wildlife management objective. Using dikes, pumps and gravity flow structures, the staff floods or drains these wetlands in order to achieve desirable conditions. A variety of wetland types are maintained including marshes, bottomland forests, wet meadows, and seasonally flooded impoundments. Each of these has its own distinct community of birds, plants and other life that depend upon it throughout the year.

Farming is another wildlife management tool you see used on parts of the refuge. Farmers harvest a portion of the crop, leaving the rest in the field for wildlife to use as a food source.



*White-tailed Deer*, Kim LeBlanc



*Northern Leopard Frog*,  
Steve Gasser

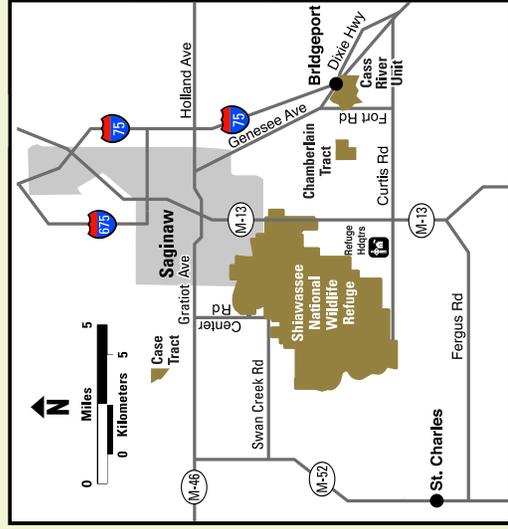


Shiawassee NWR administers the Partners for Fish and Wildlife Program in the Saginaw Bay Watershed of central Lower Michigan. This program provides financial and technical assistance to help private landowners protect and restore wetlands, native grasslands, in-stream fishery and riparian corridor habitat. Since 1987, when the program was established, the PFW program has restored over 4,000 acres of wetlands, over 1,500 acres of uplands and improved over 60 miles of stream habitat in the watershed. Projects can be implemented on property owned by counties, townships, schools, non-profits, Tribes and private landowners. Technical assistance is also provided for management and planning activities in the five watersheds affecting the refuge. The National Policy and information on the Partners for Fish and Wildlife Act can be found at [www.fws.gov/partners](http://www.fws.gov/partners). For further information contact the Private Lands Biologist at the refuge.

**Partners for Fish & Wildlife Mission:**  
*To efficiently achieve voluntary habitat restoration on private lands, through financial and technical assistance, for the benefit of Federal Trust Species*

### Satellite Refuge

Shiawassee NWR also manages the Michigan Islands NWR in Lake Huron, including the Charity Islands in Saginaw Bay and Thunder Bay and Scarecrow Islands in Thunder Bay.



Saginaw

Saginaw River

Green Point ELC and Trails

Woodland Trail

Bullhead Creek

Cass River

Shiawassee River

Swan Creek

Shiawassee River State Game Area

Spaulding Drain

Flint River

Grete Pool

Pool 1A

Pool 2

Ferguson Bayou Trail

ENTRANCE Wildlife Drive

EXIT Wildlife Drive

Refuge Headquarters

M-13

Evon Rd

Houlihan Rd

West Moore Rd

Mower Rd

Curtis Rd

Cresswell Rd

Ambrose Rd

Bishop Rd

Swan Creek Rd

Weigl Rd

Willing Rd

Center Rd

Stroebel Rd

Center Rd

Swan Creek Rd

Gratiot Ave

St. Charles

M-46

M-52

M-13

Case Tract

Chamberlain Tract

Shiawassee National Wildlife Refuge

Refuge Hedges

Refuge Hedges

Fort Rd

Curtis Rd

Dixie Hwy

Bridgeport

Cass River Unit

Holland Ave

Genesee Ave

I-75

I-675

M-13

M-46

M-52

M-13

0 Miles

0 Kilometers

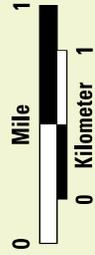
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# Shiawassee National Wildlife Refuge

- Refuge Land/Boundary
- Water
- State Game Area
- Road
- Refuge Headquarters
- Green Point Environmental Learning Center
- Boat Access
- Fishing
- Observation Platform
- Observation Point
- Parking
- Photo Blind
- Restroom
- Ferguson Bayou Trail Over 4 1/2 Miles of Hiking Trails
- Woodland Trail 4 1/2 Miles of Hiking Trails
- Wildlife Drive Auto Tour 7 1/2 Miles



Boundaries posted in the field supercede all boundaries shown on map.

### Environmental Education



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Program at Green Point, Joy Clark

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Common Yellowthroat, S. Gasser

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Sandhill Crane Colt, Ed DeVries, USFWS  
Hooded Merganser, Kim LeBlanc



Restored Wetland, Michelle Vander Haar, USFWS