

SUPERIOR WILDLANDS

2010-2011



A FREE GUIDE

TO YOUR CENTRAL UPPER PENINSULA FEDERAL LANDS

Stimulus Money at Work on Your Public Lands

Pictured Rocks National Lakeshore

This year, the National Parks of the Great Lakes region are taking part in the Great Lakes Restoration Initiative (GLRI), an unprecedented Federal investment in the health of the Great Lakes. This interagency effort will provide focused, coordinated funding to address long-standing Great Lakes ecosystem issues.

At the request of President Obama, Congress has appropriated \$475 million for the GLRI in 2010. These funds are administered by the U.S. Environmental Protection Agency, which in turn is providing approximately \$10.5 million to the National Park Service.

Funding will support 13 projects in 11 park units this year, in what is projected to be a 5-year program. "This effort is an outstanding opportunity to accomplish restoration work in our parks that would not otherwise be possible," according to Lakeshore Superintendent Jim Northup.

The GLRI is based on the 2005 "Great Lakes Regional Collaboration Strategy," developed by a broad range of governmental and non-government groups. It addresses five focus areas.

- Protection and cleanup of the most polluted areas in the lakes
- Combating invasive species
- Protection of high priority watersheds and reduced runoff from urban, suburban and agricultural sources
- Restoration of wetlands and other habitats
- Implementation of accountability measures, learning initiatives, outreach and strategic partnerships

Seven GLRI projects will occur at Pictured Rocks National Lakeshore in the next two years. One of the main projects is to inventory, monitor and control terrestrial and aquatic invasive species within the Great Lakes watershed. Efforts will target new invaders, as well as aid the park in long-term restoration efforts in which invasive species management is a critical component.

The project will also initiate an interagency media campaign to help reduce the unintentional movement by the public of invasive species in and throughout the Great Lakes, and create park and gateway community interpretive programs that highlight local invasive species concerns.

A web-based citizen monitoring program and alert system for new invaders for the Great Lakes Region will engage the public and provide automated reporting of early detection of invasive incursions or movement.

Seney National Wildlife Refuge

Seney National Wildlife Refuge is one of over 550 Refuges in the United States and one of the largest east of the Mississippi River. Created in 1935 for the protection and production of migratory birds and other wildlife, the Refuge is open to wildlife observation and photography, fishing, hunting, and other expressly permitted activities. As you travel the Refuge this season you may see or hear sights and sounds that seem out of place in a natural setting. These sights and sounds are most likely generated by heavy equipment working on refuge pools. In 2009, Seney NWR received funding under the American Recovery and Reinvestment Act (ARRA) to repair and replace facilities. Two water control structures will be replaced with these funds. Water Control structures are critical to the management of water levels in the Refuge's pool system. The Upper Goose Pen and C-2 water control structures are currently being rebuilt and should be completed this year.

What is a water control structure and why do we have them? In the late 1930's, during the early days of the Refuge's development, the Civilian Conservation Corp and Refuge staff altered parts of the Refuge's landscape. The goal was to adapt existing manmade drainage ditches and alter the flow of ground water into impoundments to create "pools" or open bodies of water, for resident and migratory wildlife. Twenty one pools with 7,000 surface acres of water were created on the Refuge and are still maintained today. Water flows through these pools via gravity (water naturally flows through the Refuge from the northwest to the southeast) and a system of non-mechanical water control structures. The structures are opened in the spring during heavy runoff to allow water to flow through the system. During the summer, water levels are generally kept high to provide wildlife with breeding and feeding habitat. In the fall, some pools are drawn down to provide access to food sources for migrating birds.

The two structures being replaced with the ARRA funds are not easily accessible by car to the general public, but other pools within this system can be appreciated while travelling the Marshland Wildlife Drive and the fishing loop. We invite you to take time to experience the wildlife using these pools and other Refuge habitats.

This is YOUR Refuge – Enjoy!

Hiawatha National Forest

Welcome to Hiawatha National Forest, your "Great Lakes National Forest"! With one hundred miles of shoreline on three Great Lakes – Lakes Michigan, Superior, and Huron – the Hiawatha is uniquely positioned to provide visitors with a range of nationally distinct recreation opportunities. Our proximity to the Lakes makes us who we are, shaping our ecosystems and our weather, in addition to offering outstanding scenery as a backdrop for your outdoor adventures.

On the Hiawatha, you'll find the opportunities we provide cover the wide spectrum of recreation preferences and abilities – from mountain biking and kayaking to scenic driving and guided tours; from remote Wilderness to rustic cabins to developed campgrounds; from cliff-top hikes to off-highway vehicle trails. Whatever your interests, you'll find something to suit you on the Hiawatha

This year as you travel the Hiawatha, you're likely to come across one of sixteen American Recovery and Reinvestment Act (ARRA)-funded projects being accomplished on the Forest. The projects fall into three categories including road maintenance & watershed restoration (8), hazardous fuels reduction & ecosystem restoration (4), and facilities & trails (4). Up to about \$12 million of ARRA funds may be invested in our local economy through implementation of these projects.

What kinds of projects might you see? There are several examples in the Munising area. For instance, reconstruction of the Au-Train campground road will greatly improve visitor experience for campers and day use visitors. Replacement for the dilapidated North Light Creek Bridge on Grand Island National Recreation Area will serve hikers, bikers and snowmobilers, and at Clear Lake Education Center, we'll be able to solve site erosion problems, rehabilitate the wastewater system, and provide ADA accessible pathways. These are just a few examples of how your public lands will benefit from ARRA.

Whether or not you bump into one of these special projects, take time to relax and don't forget to look for signs of "lake effect" visible on the Forest – our six lighthouses, Grand Island National Recreation Area, Whitefish Bay Scenic Byway, or escaping to Grand Island National Recreation Area, as well as a wide variety of inland recreation facilities. Contact our visitor center and plan your visit today!



A trip to Munising would not be complete without visiting our Interagency Visitor

Center. Located at the junction of M-28 and H-58, the Visitor Center is a convenient place to receive updated information about the Pictured Rocks National Lakeshore, Grand Island National Recreation Area, and Hiawatha National Forest. Take a few minutes to view our brand new Welcome Video and shop for souvenirs. Our friendly staff will make sure you have everything you need for a memorable vacation to the Central Upper Peninsula.



Seney National Wildlife Refuge Celebrates its 75th!



©Elizabeth Losey

The wild land that today is the Seney National Wildlife Refuge has not always appeared so wild. This is a land that was once heavily logged, burned, ditched, drained, and cultivated. Despite repeated attempts, the soils and harsh conditions of this country would not provide a hospitable environment for sustained settlement and agriculture. So, nature claimed it once again. What was viewed as a loss by early 20th century entrepreneurs became a huge gain for the wildlife, natural resources, and the people of Michigan's Upper Peninsula.

Established on May 22, 1935, at the height of the Great Depression, the federal government stepped in to purchase the land as a "refuge and breeding ground for migratory birds and other wildlife" and the "conservation, management and restoration of the fish, wildlife, and plant resources and their habitats for the benefit of present and future generations of Americans."

The new refuge brought new jobs to the area. The Civilian Conservation Corps (CCC) was instrumental in the construction of the new wildlife refuge. They built roads, bridges, buildings, and water control structures. Many of these historic buildings and structures remain and are still in use today. Their beautiful stonework is a tribute to the young men who were paid just \$1 per day.

Today, Seney NWR is a thriving ecosystem made up of scrub shrub, wetlands, forests, and open land habitats as well as the 25,150 acre Seney Wilderness Area which contains the Strangmoor Bog National Natural Landmark. These diverse habitats provided the perfect place to introduce birds like the Canada goose and trumpeter swan to help restore their populations in the Midwest, and for other species such as the gray wolf to find their way home. This makes Seney NWR a hotspot for research and continuing efforts to understand our natural world.

The rich and colorful history of Seney NWR is well documented in "Seney National Wildlife Refuge - It's Story" by Elizabeth Losey, the first female wildlife biologist hired by the U.S. Fish and Wildlife Service. This book can be purchased at the Seney NWR Visitor Center.



©Elizabeth Losey

Natural History Associations - Partners in Interpretation & Education

The money you spend on souvenirs in gift stores at the Park, Forest or Refuge, generously donate, or contribute for membership all goes to non-profit natural history associations to be spent on interpretation, education and research. Each natural history association is guided by a volunteer Board of Directors, which votes on how revenue and donations should be spent based on budget and projects suggested by agency staff and volunteers. Here are some improvements paid for in whole or part by these associations:

- Campground programs
- Informational leaflets
- Exhibits and interpretive signs
- Observation scopes and decks
- Summer internships
- This newspaper!
- Teacher workshop materials and support

Hiawatha Interpretive Association
PO Box 913
Munising, MI 49862
www.hiawathainterpretive.com



Seney Natural History Association
1674 Refuge Entrance Rd.
Seney, MI 49883



Eastern National
470 Maryland Drive, Suite 1
Ft. Washington, PA 19034
www.easternnational.org



Artist-in-Residence Programs

Are you an artist working in two dimensions looking for a residency experience in the beautiful central Upper Peninsula? Would the cliffs of Grand Island or Pictured Rocks inspire you? Both Hiawatha National Forest and Pictured Rocks National Lakeshore offer artist in residence programs. Let our landscapes and history inspire you! For more information contact Pictured Rocks National Lakeshore or Hiawatha National Forest at 906-387-3700.

Calling All Photographers!

We invite you to visit the Seney National Wildlife Refuge and enter your photos in our annual photo contest. For information and rules, contact:

Seney NWR Photo Contest
1674 Refuge Entrance Road
Seney, MI 49883
<http://www.fws.gov/midwest/seney/>



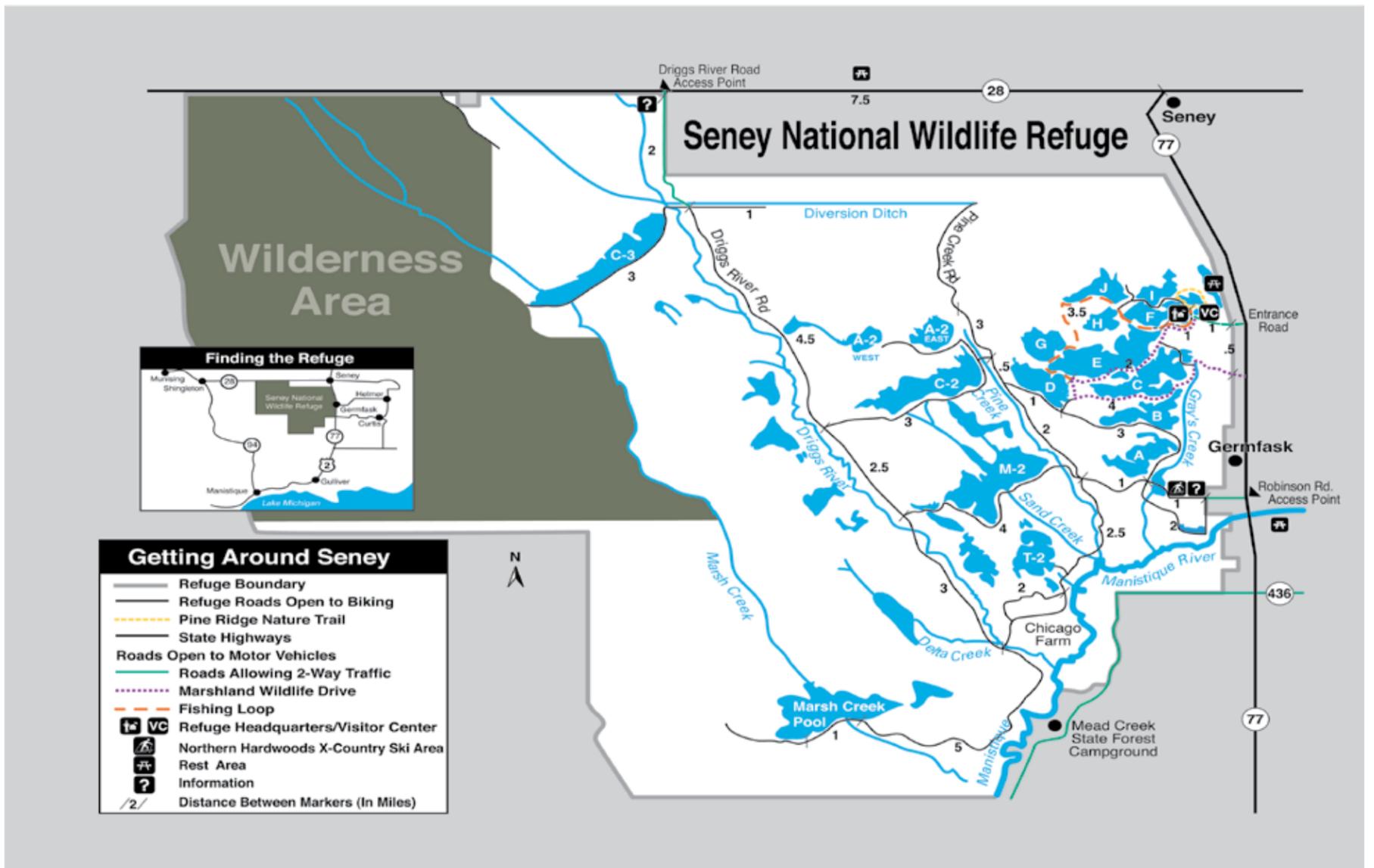
National Parks of Lake Superior Foundation



The National Parks of Lake Superior Foundation (NPLSF) is a newly organized, privately supported effort to fund special projects in the five U.S. National Park areas on Lake Superior. These include Keweenaw National Historical Park (MI), Grand Portage National Monument (MN), Apostle Islands National Lakeshore (WI), Isle Royale National Park (MI), and Pictured Rocks National Lakeshore, (MI).

Your donation to NPLSF will assist parks with worthy projects over and above funding for basic park operations. Projects include preservation of historic structures, improved visitor services, enhanced environmental education programs, and MORE! The NPLSF is actively seeking partners to assist in developing this special new funding organization which will complement efforts by the Friends organizations of individual parks. We invite individuals and major donors to contact the Foundation to learn more about how they can become involved in these efforts. Your donation is tax deductible. For additional information or to make a donation, contact: www.nationalparksoflakesuperiorfoundation.org P.O. Box 632 - Houghton, MI 49931 - 906-228-7914

SENEY NATIONAL WILDLIFE REFUGE



A Seney Year

Spring

Spring is a busy time at the Refuge. Wildlife, dormant for the winter, begins to wake. Black bears rouse and their cubs, which were born over the winter, venture out of the den for the first time. The lively, little chipmunks began their never ending search for food. Virtually frogcicles during the winter, wood frogs and spring peepers thaw and begin their mating songs. Old friends, like Canada geese, common loons, and trumpeter swans return from their wintering grounds to raise their families, filling the air with their calls. Visitors at this time may be lucky enough to see the mating dance of the sandhill cranes or sharp-tailed grouse.

Late Spring - Early Summer

Beware of the biting insects (black flies, deer flies, mosquitoes, etc.) and ticks which emerge this time of year. Despite the insects, spring and summer are the best times to view many species of wildlife and their young. Imagine early June when snapping turtles nest along the roadsides. If you are brave enough to endure the bugs, you can take a trip to the bogs and search for rare orchids in bloom. Or, watch the drama on the refuge pools from the comfort of your vehicle on the wildlife drive. See ospreys fishing in the ponds, waterfowl defending their territory, otters playing, or beavers busy building dams. The scene at Seney changes by the minute; you never know what excitement lies around the next bend.

Autumn

As the weather begins to turn colder, animals begin their preparations for winter. Migratory birds begin their long journey to their wintering grounds, fat from the bounty the northland has to offer. The birds aren't the only animals preparing for a long journey. The last generations of monarch

butterflies have a long voyage ahead. These amazing insects fly from points as far north as Canada, all the way to Mexico where they will winter before starting their journey north again. Although that generation will never see its place of birth again, their descendents somehow find their way back to their ancestral home. The fall colors at Seney are breathtaking whether viewed by car, bike, foot, or canoe.

Winter

Don't let the cold weather and snow cover fool you. There is still a lot of action on the Refuge. While the animals are harder to see, signs they were here can be found everywhere. Coyote and wolves leave tracks, otters run and slide across the snow, mice, like little miners, build elaborate tunnels under the snow, and squirrels can be seen scrounging for scraps on the forest floor. Although the visitor center is closed, the cross-country ski trails are open and normally groomed once a week. Snowshoeing is popular as well, but please refrain from walking on the cross-country ski trails.

Managing Wildlife

Water levels on over 7,000 acres of the Refuge are managed using a system of water control structures and dikes. High water levels protect fish populations during the winter, protect nesting birds from predation, and regulate vegetation growth. Low water levels create mudflats for sandhill cranes and other birds, enhance feeding opportunities for migratory waterfowl and shorebirds, and make fish more accessible to osprey and bald eagles. Prescribed burns, river and wetland restoration, mowing, and forest management are used by the Refuge to maintain healthy and diverse wildlife habitats.

Special Rules

- Please do not feed wildlife.
- Daylight use only.
- Dogs are allowed on a leash, unless otherwise stated.
- No camping or overnight parking is allowed.
- Off-road vehicles are prohibited.
- Open fires are not allowed.
- No boats or flotation devices are allowed on Refuge pools.
- Only approved non-toxic sinkers and shot are allowed on the Refuge.

For more specific details on hunting and fishing regulations see the respective brochures

©Damon McCormick





Calendar of Events - Summer 2010

See our website – www.fws.gov/midwest/seney for more events and specific dates and times.

- **Wildlife Wednesdays – Wednesday Evenings, 7:00pm – 9:30pm, June, July, August**

Join us for a casual, guided auto tour. Tours take you onto part of the Marshland Wildlife Drive and into the backcountry. This is a great chance to view wildlife, enjoy the scenery, and ask questions. Some seating is available in Refuge vehicles; once those seats are full; participants drive their own vehicles (caravan style) and use a radio to communicate with the guides.

- **Amateur Photo Tours – 7:00am, Thursday Mornings June, July, & August (call or see the website to confirm dates)**

The Refuge offers an amazing diversity of birds and wildlife as well as lots of landscapes that beg to be photographed. Use this opportunity to join up with other amateur photographers to explore the Refuge, look for great shots, and share photos and skills. Have a working knowledge of your equipment and come prepared for a variety of weather and bug conditions.

- **Talks, Tours, & Activity Stations**

Weekly programs will be offered in June, July, and August. Subject matter, times and dates can be found on our website or at the visitor center.

- **75th Anniversary Celebration & International Migratory Bird Day Festival – May 22nd**

Seney NWR is turning 75 and we want to celebrate the main reason for the creation of the Refuge, the protection of migratory birds.

- **21st Annual Children's Fishing Day – Saturday, June 19th**

Catch the excitement! Open to youth up to age 16. Registration begins at 9:00 am. All fish being entered in the contest must be registered at the Visitor Center by 1:00 pm. Fish dinner and prizes offered to all participants.

- **Junior Duck Stamp Art Display – July 3rd to 25th**

Each state's Best of Show from the Junior Duck Stamp competition will be on display at the Visitor Center. These drawings and paintings represent a dynamic arts program that teaches wetland and waterfowl conservation to students from kindergarten through high school. Junior Duck Stamps are sold by the U.S. Postal Service and Amplex Corporation consignees for \$5 per stamp. For more information go to www.fws.gov/juniorduck.

- **Scout Activity Day – Saturday, September 25th, 2010, 10:00am – 4:30pm, \$5.00 per scout**

This fun filled day is best suited for scouts in elementary school grades K-4. Join us for exciting and fun opportunities to explore Seney



©John Hysell

National Wildlife Refuge and complete requirements for Merit Badges, Try-Its, Arrow Points, and achievements! All participating scouts will receive a Seney Scout Day badge. Pre-registration is required and spaces fill quickly.

- **National Wildlife Refuge Week – October 11th to 17th**

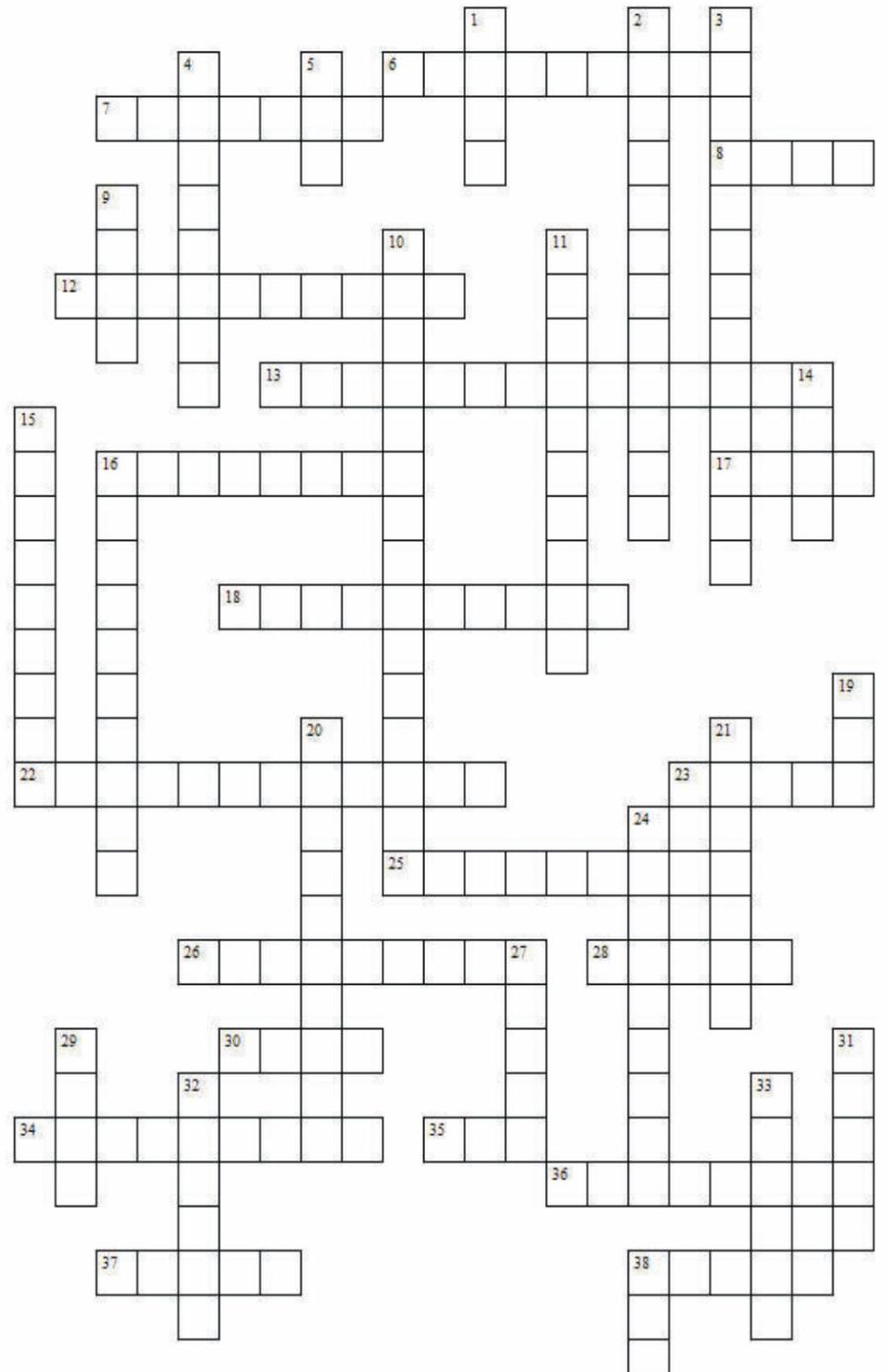
This year the visitor center will be open until October 17th in celebration of National Wildlife Refuge Week. Come and photograph the beautiful fall colors and enjoy the last week of the season.

ACROSS

- Gives birth during its winter slumber (2 wds).
- Butterfly that migrates to Mexico.
- Gender of bird that is usually more colorful.
- Great local river to paddle.
- Climbing glider (2 wds).
- This duck gets its name from the shape of its wide flat bill.
- This frog freezes during the winter.
- Type of fire set by resource managers.
- Rabbit relative that changes color in the winter (2 wds).
- Number of states that have National Wildlife Refuges.
- Native trout found at Seney.
- "Tennis racket" type shoes for a sport allowed on the refuge.
- Native trout found at Seney.
- Toxic shot.
- Once protected under the Endangered Species Act this bird has made a recovery and now can be found nesting at Seney NWR (2 ds).
- Sharp-tailed grouse dance floor.
- Time of day the Refuge is open.
- This frog sounds like a rubber band being plucked.
- Mammal with a poisonous bite.

DOWN

- Scientific fashion accessory for birds.
- Seney is celebrating its _____ birthday.
- Bird extirpated from the area introduced on the refuge in 1991 (2 wds).
- Turtles that can be found nesting along road sides in May.
- Civilian Conservation Corps abbr.
- Fox that climbs trees.
- National contest for young artists (3 wds).
- Pesky insects that like to hover near your ear.
- Bird that transports its babies on its back.
- Biting insects named after a four legged wild animal (2 wds).
- _____ Bog.
- Month Seney was established.
- People travel from all round the world in the spring to see this bird (2 wds).
- Mimics a monarch.
- Type of birds that fly long distances in the spring and fall.
- If this animal performs a handstand you better run!
- Amphibian that is poisonous.
- Annual contest on the refuge.
- Slaps the water to warn others with its flat tail.
- Baby swan.
- Number of species of bats on Seney NWR.



Answers are posted on the Seney NWR website.

www.fws.gov/midwest/seney



Discovering Seney

The Refuge is a great place for visitors of all ages and abilities to watch and learn about the local flora and fauna. Established in 1935 as a sanctuary and breeding ground for migratory birds and other wildlife, today the 95,238 acre Refuge supports a variety of wildlife including endangered and reintroduced species by providing a rich mosaic of habitats – scrub-shrub, wetlands, forest, meadow, and lakes/ponds.



©Teresa McGill



Visitor Center

Open May 15th – October 17th, 2010 from 9 a.m. – 5 p.m., seven days a week, including holidays.

Highlights include exhibits, a children's touch table, "The Wonder of Nature" orientation film, and a bookstore. Binoculars and field guides can be checked out free of charge courtesy of the Seney Natural History Association.



Marshland Wildlife Drive

This seven mile one-way tour route follows alongside wetlands and meadows

and through forests. Three wheelchair accessible observation decks with viewing scopes make this a great wildlife watching opportunity.



Pine Ridge Nature Trail

Starting from the visitor center, this 1.4 mile loop trail, takes visitors through a variety of

landscapes. Songbirds, swans, and beavers are common sightings along the trail.



Bicycling

Many miles of backcountry roads are available for biking throughout the Refuge. For those who seek wildlife and solitude, these trails are for you. The roads are open during daylight hours only so you need to plan your trip carefully. You may see vehicles on these backcountry roads as staff and researchers conduct investigations, so please be aware

of the possibility of vehicles on the roads. To help you plan your visit, mileage is marked on the Refuge map. Roads/areas may be closed due to biological or management (fire, logging, maintenance) reasons, please obey the closure signs. The Pine Ridge Nature Trail and the cross-country ski trails are closed to bicycles year round.



Canoeing

Enjoy a day of paddling along the Manistique River, which flows through the south eastern part

of the Refuge. Outfitters are located in Germfask. Use is limited to daylight hours with no overnight camping allowed. No boats or other flotation devices are allowed on Refuge pools. Due to numerous snags, shallow water, limited access by road, and no camping allowed, the Driggs River is not recommended for canoeing.



Fishing

Open on the Refuge from May 15 – September 30. Anglers can fish along the 3.5 mile Fishing Loop

in designated pools including the accessible fishing pier and the Driggs River. Species found on the Refuge include northern pike, yellow perch, brown bullhead, brook trout, and sunfish. To protect the trumpeter swan

and common loon, lead sinkers cannot be used on the Refuge. Check the fishing brochure for current regulations.



Hunting

Ruffed Grouse, American woodcock, common snipe, snowshoe hare, white-tailed deer,

and bear may be hunted during some state seasons in designated areas with the proper licenses. Starting with the fall 2010 hunting season, only approved non-toxic shotgun shot will be allowed on the refuge. Check the hunting brochure for current regulations



Winter Activities

The Northern Hardwoods Cross-country Ski Area offers nine miles of groomed Nordic trails. Turn west off M-77 onto Robinson Road 1/3 mile south of the blinking light in Germfask. The trailhead is at the end of the road. Brochures and maps are available at the trailhead kiosk or may be downloaded from our website. Dogs are not allowed on groomed ski trails. Snowshoeing is allowed anywhere on the Refuge except the ski trails. Snowmobiles are not permitted on the Refuge.



flickr

Follow Seney NWR on Facebook and Flickr.



©Mike Byrnes



©Jim Hill

Wildlife First

- There are 550 National Wildlife Refuges and over 3,000 waterfowl production areas located throughout the 50 states and several U.S. territories. At more than 96 million acres, it is the world's largest system of lands and waters whose primary purpose is the conservation of wildlife and habitat.
- Our National Wildlife Refuges provide homes for over 700 bird species, 220 mammal species, 250 reptile and amphibian species, and more than 200 kinds of fish.
- Refuges are home to 25 percent of all federally threatened and endangered species.
- Each year, millions of migrating birds use refuges as stopovers to rest as they fly thousands of miles south for the winter and return north for the summer.

Welcoming People

- Hunting and Fishing: Hunters are welcome on more than 300 National Wildlife Refuges and on 3,000 Waterfowl Production Areas, which are small wetlands located mainly in the upper Midwest. Anglers also enjoy the outdoors at more than 260 refuges where they catch a variety of fish. Hunting and fishing are both allowed at Seney National Wildlife Refuge. See brochures or the website for regulations.
- Wildlife observation and photography: Bird watchers, photographers and nature lovers visit refuges for great opportunities to see local wildlife species in their natural habitats and great congregations of birds, during peak migrations. Seney has observation decks, nature trails, an auto tour, and miles of backcountry roads for observing wildlife and their habitats. Whitefish Point Unit, managed by Seney NWR, offers excellent opportunities to see birds, especially during spring and fall migration.
- Interpretation and environmental education: Refuges are great places for children and adults to learn about their natural world. Programs are offered at over 230 Wildlife Refuges around the country. Seney offers tours, programs and special events. Check the Visitor Center or website for a calendar of activities.



Fishing for Chemicals

By Ted Gostomski (NPS Great Lakes Inventory and Monitoring Program) and Jim Wiener (University of Wisconsin—La Crosse, River Studies Center)



Electroshocking for darters and one-year-old perch in Grand Sable Lake.

If fishing is one of the things you like to do while visiting Pictured Rocks National Lakeshore, you may be interested in a long-term monitoring program recently begun at the park.

Pictured Rocks National Lakeshore is part of the National Park Service's Great Lakes Inventory and Monitoring Network, and it is one of six national park units in the Network where predatory fish (northern pike and smallmouth bass), small prey fish (darters and one-year-old yellow perch), and larval dragonflies are being collected to determine the distribution and relative amounts of chemical contaminants in the aquatic food web. (Blood and feathers from young-of-the-year eaglets are being collected in three other parks.) The fish muscle tissue (and the eagle blood and feathers) we collect are analyzed for methylmercury, lead, PCBs, DDT, and new contaminants of interest including perfluorochemicals and polybrominated diphenyl ethers, which come from fire retardants, furniture stain repellants, and other recent applications.

Sampling at Pictured Rocks began in 2008, is being repeated in 2010, and will continue at regular intervals into the future. The National Park Service (NPS) is working with the University of Wisconsin-La Crosse River Studies Center to accomplish this work. The university oversees the field work and data processing and analysis. Results are compared with those from the other Network parks, and all of this is linked to the Network's water quality monitoring program. Information from these efforts will indicate the health of the parks' inland lakes, fish, and wildlife. Plus, the information can help guide park management decisions.

How do these chemicals get here? Unlike in the past, most contaminants today arrive from distant locations by airborne transport. Chemical molecules deposited in rain, snow, and dryfall (tiny gas molecules or particles) account for a significant proportion of the current contaminant levels in lakes at Pictured Rocks. Some studies have shown that mercury in the Great Lakes originates from sources more than 1,000 miles (1,600 kilometers) away. Contaminants enter the aquatic food web by way of microscopic bacteria and algae, and concentrations of these contaminants increase, or "biomagnify," as they move through the food web from small invertebrates to prey fish to predator fish and on up to the top predators such as eagles, loons, and otters.

Humans are part of this food web, too, and many of the chemicals causing problems for fish and eagles can cause similar reproductive and developmental problems in humans. But unlike eagles, people can heed mercury warnings for certain lakes, properly clean the fish they catch, and limit the amount of fish they eat (especially children and pregnant women). Eagles, otters, fish, and dragonflies cannot do these things. So while the data collected from long-term monitoring programs like this one can help inform human decisions, it will also help us protect fish and wildlife and the places where they live. That is ultimately the purpose of the Inventory and Monitoring program and of the national parks. For more information, visit our website: <http://science.nature.nps.gov/im/units/GLKN/monitor/contaminants/contaminants.cfm>

Lakeshore Activity Schedule

June

- **Wednesday through Sunday** - 11 am - 5 pm. **Au Sable Light Station Ranger Guided Tours and Maritime Museum** - Fee \$3 Adults, \$2 kids under 12.
- **Saturday - Au Sable Transportation** - Catch an ALTRAN van from Lower Hurricane River picnic area to the lighthouse, \$2.50 one-way, \$5.00 round trip. June 12, 11 am - 5 pm.
- **Wednesday through Sunday** - Join a Ranger on two afternoon Pictured Rocks Cruises for narration about the Lakeshore on the return trip.

July

- **Wednesday through Sunday** - 11 am - 5 pm. **Au Sable Light Station Ranger Guided Tours and Maritime Museum** - Fee \$3 Adults, \$2 kids under 12.
- **Saturday - Au Sable Transportation** - Catch an ALTRAN van from Lower Hurricane River picnic area to the lighthouse, \$2.50 one-way, \$5.00 round trip. July 10, 11 am - 5 pm.
- **Wednesday through Sunday** - Join a Ranger on two afternoon Pictured Rocks Cruises for narration about the Lakeshore on the return trip.
- **Wednesdays** - Anishinabe Heritage Activity - 3-4 pm. Meet the Ranger at the Lakeshore's Sand Point Headquarters.
- **Wednesdays** - **Join a Ranger for a campground program on The Grand Sable Dunes** - 7-8 pm, Twelvemile Beach Campground Amphitheater.
- **Thursdays - Junior Ranger Program** - 1-3 pm. Meet at the Lakeshore Sand Point Headquarters (Alger Parks Day Campers Invited).
- **Thursdays** - Evening Ranger Program at the Munising Tourist Park - 7-8 pm - "Wildlife of Pictured Rocks National Lakeshore."
- **Fridays - Ranger Led Hike - Sable Creek to the Grand Sable Dunes** - 4-5:30 pm. Meet at the Grand Sable Visitor Center.
- **Fridays - Campground Program on Hurricane River Ecology** - 7-8 pm, Hurricane River Picnic area (bring a chair!)
- **Saturdays - Ranger Mini-Program on Lakeshore Geology** - 2-3 pm, Meet at the Miners Castle Information Station.
- **Saturdays - Campground Ranger Program on Forests of the National Lakeshore** - 7-8 pm, meet at the Twelvemile Beach Campground Amphitheater.

August

- **Wednesday through Sunday** - 11 am - 5 pm. **Au Sable Light Station Ranger Guided Tours and Maritime Museum** - Fee \$3 Adults, \$2 kids under 12.
- **Saturday - Au Sable Transportation** - Catch an ALTRAN van from Lower Hurricane River picnic area to the lighthouse, \$2.50 one-way, \$5.00 round trip. August 14, 11 am - 5 pm.
- **Wednesday through Sunday** - Join a Ranger on two afternoon Pictured Rocks Cruises for narration about the Lakeshore on the return trip.
- **Wednesdays** - Anishinabe Heritage Activity - 3-4 pm. Meet the Ranger at the Lakeshore's Sand Point Headquarters.
- **Wednesdays** - **Join a Ranger for a campground program on The Grand Sable Dunes** - 7-8 pm, Twelvemile Beach Campground Amphitheater.
- **Thursdays - Junior Ranger Program** - 1-3 pm. Meet at the Lakeshore Sand Point Headquarters (Alger Parks Day Campers Invited).
- **Thursdays** - Evening Ranger Program at the Munising Tourist Park - 8-9 pm - "Wildlife of Pictured Rocks National Lakeshore."
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- **Saturdays - Campground Ranger Program on Forests of the National Lakeshore** - 7-8 pm, meet at the Twelvemile Beach Campground Amphitheater.



Interpretive program at Twelvemile Beach Campground

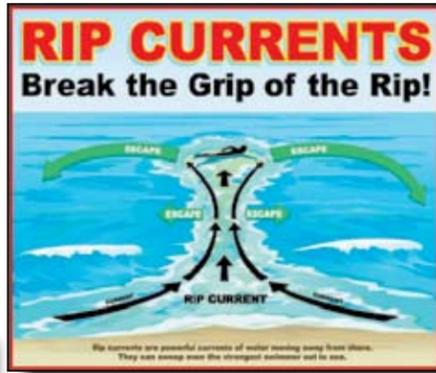


Being Aware of Your Situation

Falling rock, cascading dunes, rip currents and encounters with bears due to improper backcountry storage of food...as a Lakeshore visitor, these are things you should be thinking about. As you visit the park, be aware of the situations you find yourself in and ask yourself "what if?"



Many cliff areas along the North Country Trail are actually overhangs with free space below. As you are hiking in the park - stay back from the edge.



Rip currents are possible at several beaches along the Lakeshore depending on weather and water conditions. Check the bulletin boards to know what they look like and how to get out of one.

When visiting the park, if you need to talk on your cell phone, pull over at a safe location out of traffic. Talking on your cell phone may cause you to miss seeing wildlife - or worse!

While the Grand Sable Dunes are a unique and beautiful

part of the park, they too can hold hazards. Be aware that sand banks can collapse - sending you downslope or perhaps covering you. Take care when traversing dune faces.



People often remark they would love to see a bear during their visit to the park, but at a safe distance. Remember that a fed bear is a dead bear. Please follow food storage guidelines posted on bulletin boards and in backcountry regulations by



hanging your food on the food pole provided or securing food in a vehicle. If you encounter a bear while on foot in the park, make noise and wave your arms. Do not drop your day pack or other items with food in them.

Please report all incidents to a Park Ranger or visitor center.

Restoring the Great Lakes

A total of seven Great Lakes Restoration Initiative projects, funded by the Environmental Protection Agency, will occur at Pictured Rocks National Lakeshore in the next two years.

- Conduct comprehensive marine assessments to obtain better baseline information on aquatic habitat, water quality and ecological conditions.
- Monitor contaminants such as mercury, lead and DDT to provide more data on trends and patterns of contaminant loading and bioaccumulation.
- Implement priority recommendations from condition assessments and inventory of conditions in coastal rock and inland forest pools
- Increase NPS involvement in the Lakewide Management Plans for Lakes Superior, Michigan and Erie that are coordinated by the EPA.
- Restore habitats with invasive species control
- Restore coastal and fluvial processes in five National Parks
- Pictured Rocks and Apostle Island National Lakeshores will initiate a "Communicate Stewardship and Sustainable Values" program to promote natural resources stewardship concepts, energy and money-saving sustainable practices and "green" tourism initiatives in communities adjacent to the parks.

The Communicate Stewardship and Sustainable Values project has two components: 1) reach out to park neighbors to convey the impacts of climate change on Great Lakes national park resources and convey a comprehensive approach to sustainable practices, including green tourism, and 2) provide a matching grant program to assist residents and business owners to reduce their carbon footprint by retrofitting structures.

Scientific research reveals that the CO₂ concentration in our atmosphere continues to climb beyond 385 parts per million, and impacts to the earth appear to be growing at faster rates than originally projected by the Intergovernmental Panel on Climate Change 4th Assessment. A vast majority of scientists predict that current, and particularly higher levels of CO₂ will dramatically change species diversity and distribution, habitats, human health, economic, and societal and public health implications due to drought and increased storm intensity and damage, and a host of other impacts.

The project will focus on local problems and local solutions including ideas for changing individual, family, corporate, institutional, and municipal behaviors to address impacts of climate change.

The program will focus on the emerging NPS Climate Change Communication "key messages" with particular emphasis on local impacts, local examples and local action. Those key messages are:

- Climate change is happening and human activities are contributing to and accelerating it.



- Changing climate has consequences for parks, people, and the planet.
- The NPS is responding with practices that address climate change.
- The choices we make now may help to avoid catastrophic impacts in the future.

Park Rangers will present programs in schools, to interested citizen organizations, at county fairs, and local and regional events relating to Great Lakes watersheds. Programs will include information on state and federal tax credits for sustainable applications as might be covered under the matching grant program as well as communicate the most effective methods for retrofitting residences and buildings including lighting, insulation, windows, heating systems, and appliances.

The matching grant fund will be available to assist local residents and tourism related businesses to save money, reduce their energy consumption, reduce their carbon load and convert portions of their energy use to sustainable sources such as wind and solar. This program will serve as a demonstration program to encourage local progress in reducing carbon footprints and converting to renewable energy.

Pictured Rocks National Lakeshore is honored to be a part of the larger Great Lakes Restoration Initiative. By bringing a global issue to a local and personal level, we hope to make a lasting difference in the future of National Park stewardship.

Follow Lakeshore updates on Facebook® and Twitter®





Regulations In Brief



To help ensure a pleasant visit, please take a couple of minutes to become familiar with the following regulations at the National Lakeshore.

Camping - permitted only within designated Lakeshore campsites. Camping permits are required. Beach or roadside camping is prohibited.

Backcountry Campers - must purchase a \$5 per night/person backcountry permit prior to entering the backcountry. Permits are available by reservation and in-person at visitor centers in Munising and Grand Marais.

Pets - where permitted, must be on a 6-foot leash. Check the pet map on bulletin boards for specific locations of pet walking areas.

Bicycles - permitted on roads where automobiles are permitted. Not permitted on hiking trails or roads closed to vehicular traffic.

Hunting - prohibited park-wide during the high visitor use period of April 1 through Labor Day. Hunting is allowed the remainder of the year as established by state and federal laws. Target shooting and trapping are prohibited year-round.

Campfires - allowed only in fire rings. Fires on beaches are prohibited — except in fire rings provided.

ATVs - are prohibited in the park.



Removing rocks or other natural features is prohibited.

Please do not injure or remove plants or harass wildlife.

Wildlife Feeding Prohibited - Birds and small mammals rely on natural food to get them through the winter. Please do not make them dependent on human food.

No Littering - Each of us enjoy a clean Lakeshore. Please pick up after yourself and others.

Fireworks - are best left to the experts. Use or possession of fireworks within the Lakeshore is prohibited.

Visit the official Lakeshore website:
www.nps.gov/piro

Day Hikes of Note



Your visit to Pictured Rocks National Lakeshore may be only an hour or two or you may spend a week or more. If you only have a day or two to spend at the Lakeshore, consider visiting these popular attractions in developed areas of the park. Please note that bicycles are not permitted on Lakeshore trails. Pets are allowed along all park roads and are permitted in some other areas. Pets must always be on a 6-foot leash.

Munising Falls

Nestled in a cool, shady valley, the 50 foot falls are at the end of a short 800 foot walk on an improved trail. The trail is a good place to look for wildflowers in spring and early summer. Water from the creek was once used in the production of iron at the Schoolcraft blast furnace, a story told on wayside exhibits and in the Munising Falls Interpretive Center. Pets are allowed on the trail to Munising Falls, but not on Becker Farm entrance road and fields or on North Country Trail.

Sand Point

The Sand Point beach is a popular spot for walking in the evening to watch the sun go down over Munising Bay. The Sand Point Marsh Trail, a half-mile disabled accessible interpretive trail, features a large print brochure for visually impaired visitors. Sand Point is a good place to look for warblers in spring and fall. Park Headquarters is also located on Sand Point in a former U.S. Coast Guard building. Pets are prohibited on Sand Point Marsh Trail.

Miners Castle

Beginning at the picnic area, a paved foot trail leads you past interpretive exhibits to breathtaking overlooks of Lake Superior and Grand Island. Erosion over long periods of time has created the interesting rock formations that give this place its name. Pets are permitted in picnic and overlook area but prohibited on the North Country Trail.

Miners Falls

A 1.2 mile round trip gravel path through a deep woods environment leads to the falls overlook. Miners River plunging some 60 feet over a cliff is home to brook and steelhead trout. A free, self-guiding interpretive trail guide is available at the trailhead. Pets are permitted in picnic area on a 6 foot leash, but are prohibited on the trail to Miners Falls.

Miners Beach

A picnicker and beach walker's delight, Miners Beach extends for one mile on Lake Superior where waves roll in to polish beach cobbles. Miners River is popular for steelhead fishing in spring and fall. A 1.0 mile trail connects Miners Castle developed area and the picnic area at Miners Beach. Pets are allowed in picnic area and on Miners Beach.



Day hikers at Chapel Beach

White Pine Trail

Located at the Little Beaver Lake Campground this 1.0 mile self-guiding interpretive trail explores the plant and animal communities of a cool, shady valley. Free trail guides are located at the trailhead. No pets are allowed on the White Pine Trail.

Chapel Rock

Circumnavigating Chapel Lake takes you to the beautiful Chapel Beach and Chapel Rock. The 6.6 mile trip makes a great day hike. Pets are not permitted on this trail.

White Birch Trail

Located at the Twelvemile Beach Campground, this two mile self-guiding interpretive trail explores a variety of ancient Lake Nipissing beach and upland plant communities. Free trail guides are located at the trailhead. Pets are not allowed on this trail.

Log Slide Overlook

The 1000 foot trail to the viewing platform from the picnic area is worth the walk. Newspaper accounts tell of logs sent down the dry log chute generating enough friction to cause the chute to catch fire. Today the chute is gone, but the lumberjack stories still linger as you gaze out over the Grand Sable Banks and Dunes. This is a good place to glimpse the Au Sable Light Station to the west and Grand Marais to the east. Pets are not allowed on this trail.

Au Sable Light Station

Strolling about the grounds on a stormy day, one can feel the sense of duty and history for which this station is preserved. Access to the station is by a 1.5 mile hiking trail beginning at the east end of the lower Hurricane River Campground. Check at visitor centers and park bulletin boards for summer interpretive tours scheduled at the light station. Tour fee \$3 adults. Pets are not allowed on the trail to or at the lighthouse.

Sable Falls

A picnic lunch at Sable Falls can begin a great afternoon of exploring. A 0.5 mile hike from the parking lot leads you to the falls and Sable Creek and on to Lake Superior. Pets are not allowed on the trail to the falls.

HIAWATHA NATIONAL FOREST



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The Great Lakes National Forest

With one hundred miles of shoreline on three Great Lakes, the Hiawatha National Forest is uniquely positioned to provide visitors with a range of nationally distinct forest recreation opportunities. From lighthouses to Great Lakes islands, from spectacular shorelines to the Midwest's finest winter playground, the Hiawatha brings to life a fascinating natural and cultural history while providing unique recreation opportunities to the visiting public.

The Hiawatha National Forest consists of about a million acres in two large units. The West Unit is located between Munising, Manistique and Rapid River. The East Unit is located between St. Ignace and Sault Ste. Marie. The Forest touches Lake Superior, Lake Michigan and Lake Huron and boasts six lighthouses and a 26 mile scenic byway along Lake Superior's south shore.

The Hiawatha National Forest was created in 1931 from abandoned farms, razed logging tracts and lands devastated by forest fires. Replanted originally by the Civilian Conservation Corp and cared for since by the US Forest Service, today's Hiawatha provides quality habitat for a variety of fish, wildlife and rare plants. The Forest is dotted with about 420 inland lakes, and eight hundred miles of streams and rivers flow through the Hiawatha, emptying into the Great Lakes. Five of those rivers are National Wild and Scenic Rivers.

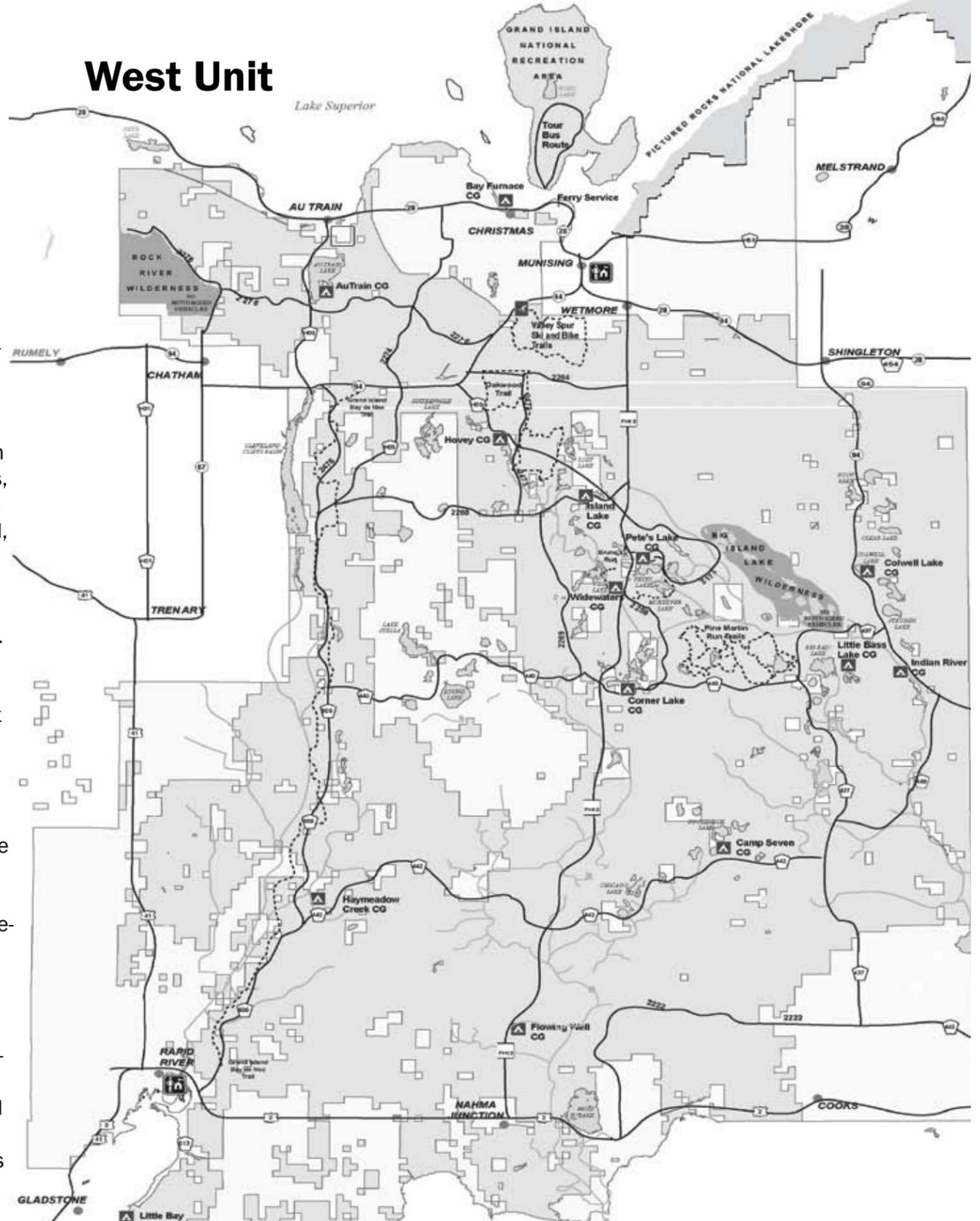
Dip your paddle in a river, immerse yourself in a cool clear lake, or skip a rock across the calm sparkling surface. Pedal a bike on a sun-dappled trail up to a breath taking vista. Catch a glimpse of the northern lights in a dark summer sky. Cross over to adventure on Grand Island National Recreation Area.

Visit us often. As the seasons change, our forest changes, offering new experiences for each new season.

Contact:
Hiawatha National Forest
400 E. Munising Ave.
Munising, MI 49862
906-387-2512
www.fs.fed.us/R9/forests/hiawatha

Hiawatha National Forest

West Unit



Special Events, Races and Festivals on the Hiawatha National Forest

There are many special events that take place on the Hiawatha National Forest that are sponsored by private citizens or non-profit groups. Anyone interested in having an event on the National Forest must obtain a special use permit. For more information about special use permits, please contact the Forest Service at 906-786-3327.

- Grand Island Trail Marathon and 10 K, -August 1, 2010, Grand Island NRA, Munising, MI. If you like trail marathons, you won't want to miss this one! The race route takes runners along one of the most spectacular shorelines in Lake Superior. Contact <http://www.greatlakesendurance.com/> or runskikayak@hotmail.com for more information.
- Great Lakes Sea Kayak Symposium -July 15-18, 2010 in Grand Marais, MI. Whether they are being introduced to kayaking for the first time or you have been on the water for years, attendees will find classes and trips. The oldest kayaking symposium on the Great Lakes welcomes paddlers of all ages and abilities for a weekend packed with fun and learning opportunities. Trips include Grand Island National Recreation Area. Contact the Great Lakes Sea Kayaking Club at <http://www.glsks.org/> Jacob1965@sbcglobal.net for more information.
- Tour Da Woods -September 11, 2010 Mountain Bikers will love the remote trails that make up this challenging race. More experienced riders can take on "Hiawatha's Revenge" 30 mile race and beginners can try the 15 mile "Red Deer Run". There is even a "Tour da Valley" youth race. Contact Anna River Peddlers at http://www.annariverpeddlers.org/events_registration.html or contact@annariverpeddlers.org for more information.
- Cross Country Ski Bash, January 2011 at Valley Spur. Adults may choose between the 24K Big Foot's Revenge or 12K Stairway to Heaven. The Locomotive Chase is a 5K Youth Event. Challenge yourself, the trail or take it as a race. No matter what, you will not forget the beauty of your surroundings as you travel through the forests and hills of the Hiawatha National Forest. For more information visit <http://www.valleyspur.org> or contact Dave Worel at 906-387-2865.
- Snowman Biathlon, March 2011, Valley Spur. The annual "Snow Man" Biathlon consists of a 12k ski race, followed by a 3k snowshoe run. For more information visit <http://www.valleyspur.org> or contact Dave Worel at 906-387-2865.
- Taste and Glide, March 2011 at Valley Spur. Always the first Saturday in March, the popular Taste and Glide cross-country ski event celebrates the joy of skiing and the joy of eating! Fun for all ages, the only race is to get to the Chocolate Strawberries. For more information visit <http://www.valleyspur.org> or contact Dave Worel at 906-387-2865.



Reservable Campsites

Dispersed Sites

Dispersed campsites are smaller, more secluded campsites that are off the beaten path. They are generally found on small inland lakes and appeal to those campers that want a pit toilet and fire ring but do not need any of the amenities of a larger campground. They are usually more suited for tent, pop up trailer, or small RV.

On the Munising Ranger District, there are 3 dispersed camping areas: Council Lake, Cookson Lake and Ewing Point. **Cookson Lake** is a 35 acre lake with two small islands. It is located about 20 miles south of Munising. There are five primitive camping sites located on the shore of Cookson Lake in an open field. A public boat ramp is available. Largemouth bass, northern pike, bluegill, and bullhead make their homes in Cookson Lake. On the shores of **Council Lake** about 15 miles south of Munising, the campground is situated in a mixed stand of hardwood and paper birch. There are four primitive camping sites at Council Lake. Council Lake has a grill and picnic table available for day use. The beach on Council Lake is perfect for lounging and swimming. Canoeists and Kayakers will find Council Lake, and the adjoining two lakes, a relaxing, soothing paddle. Boat access at the campground is hand carry in only. However, there is a back in boat launch on Red Jack Lake, which connects to Council Lake.

Ewing Point is located on the 132-acre McKeever Lake about 17 miles south of Munising. There is one large walk-in campsite on Ewing Point that can accommodate 16 people. The site, located right on the point, is a grassy area 50 feet by 75 feet, surrounded by cedar and hemlock. A fire grill, lantern post, and picnic tables are provided at the site. The lake bottom is sandy and provides good wading. Bruno's Run Hiking/Biking Trail weaves throughout the Ewing Point area. McKeever Lake is a good fishing lake for musky, pike, bass, and pan fish. There is a back in boat access on McKeever Lake at the parking area.

Reservations are Required

Camping at these dispersed sites is by reservation only 24 hours or more in advance. These sites may be reserved for up to 14 days. Camping fees are \$8 per night per site. Reservations are made on the National Recreation Reservation System (NRRS). To check availability of the campsites or to make a reservation, call 877-444-6777 or go to www.recreation.gov.



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Developed Sites



FS Stock Photo

Developed Campgrounds are larger and offer more amenities, such as water from a hand pump or spigot, multiple pit toilets, picnic tables, and fire rings/grills. They can accommodate everything from a tent to a large motor home or RV. Many of them also have day use/picnic areas.

There are 4 reservable developed campgrounds on the Munising Ranger District: Bay Furnace, Widewaters, Pete's Lake, and AuTrain.

Bay Furnace campground is located in Christmas right off of M-28 and overlooks Lake Superior. This convenient location makes it a perfect site for the traveler who would like to camp overnight. There are 50 campsites, each with a fire ring and table. A large day use and picnic area has tables, grills, drinking water, toilets, and a rocky beach. A dump station is provided.

Widewaters Campground is located on the Indian River, 13 miles south of Munising. There are 34 large forested, well-spaced sites affording privacy and seclusion each with fire ring and table. You will find at Widewaters Campground the opportunity to pursue whatever activities you desire whether it be canoeing, fishing, biking the Bruno's Run Trail, hiking, or just camping in a peaceful, quiet environment.

Pete's Lake Campground is located about 12 miles south of Munising on FH-13. Surrounded by many lakes, this recreation area offers much in the way of camping, hiking, fishing, great swimming, boating, and picnicking. The campground has 41 sites each with fire ring and table. There are two picnic areas with tables and grills settled comfortably beneath large shade trees and near a swimming beach and accessible fishing pier.

AuTrain Lake Campground is located in Alger County, about 10 miles west of Munising. AuTrain Lake is the largest inland lake in the area. The large size of this lake provides miles of prime water skiing, boating, swimming, and fishing. Canoeing is also popular here on AuTrain Lake and the AuTrain River below the lake. For Birders, there is a songbird interpretive trail and observation platform. This campground has 37 large, wooded, campsites and a large day use and picnic area with a swimming beach.

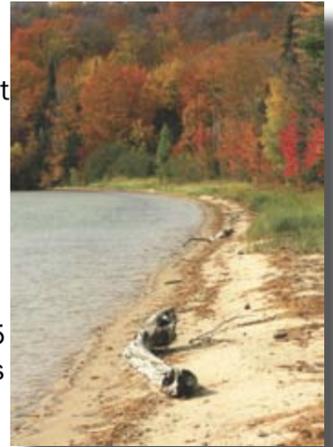
Reservations are NOT Required

You do not have to make reservations at these campgrounds. There are many walk in only sites available. Fees vary per site. Reservations are made on the National Recreation Reservation System (NRRS). To check availability of the campsites or to make a reservation, call 877-444-6777 or go to www.recreation.gov.

Group Sites

There are two designated group sites (7-25 people) on Grand Island National Recreation Area that can be reserved.

Murray Bay Group site sits near the individual sites at Murray Bay on the southeast side of the Island about 2.5 miles from William's Landing. The group site is near the Day Use Area which has



©A. Jauck

a lovely beach, picnic tables, fire rings/grill, water, and a pit toilet.

If you want to be a little more secluded, try Juniper Flats group site on the west side of the island. Situated south of Waterfall Beach and about 3 miles from William's Landing, Juniper Flats has access to water within walking distance but is located in the woods on top of a bluff. Water and a pit toilet are nearby.

Reservations are NOT Required

You do not have to make reservations at these group sites. Groups may also walk in to these sites if they are not reserved. Reservations must be made at least 4 days in advance. Reservations are made on the National Recreation Reservation System (NRRS). To check availability of the campsites or to make a reservation, call 877-444-6777 or go to www.recreation.gov.

Outdoor Campground Culture Tour Summer Programs

Sheepshank Sam

He will transport you back in time to a lumberjack camp in Michigan in the 1800's.

Thursday July 8 - Camp Seven, 7pm

Friday July 9 - Bay Furnace, 7pm

Evie Boss

Great for kids and families, Evie will increase appreciation of Michigan through stories and songs.

Thursday July 22 - Bay Furnace, 4pm

Friday July 23 - Camp Seven, 7pm

Reg Pettibone

A Native American Champion Dancer, he will provide you with a better understanding of Native American culture through song and dance.

Friday July 30 - Camp Seven, 7pm

Sat July 31 - Bay Furnace

Kraig Kenning

You will never forget this performance by one of the premiere slide guitar champions.

Friday August 6 - Camp Seven, 7pm

Mustards Retreat

"Music to cure what ails you". Traditional and contemporary songs from a fun pair of musicians.

Friday August 13 - Peninsula Point Light, 7pm

Sat August 14 - Bay Furnace, 7pm

Claudia Schmidt

Highly unusual and entertaining, her music will leave you humming and laughing.

Friday August 20 - Camp Seven, 7pm

Sat August 21 - Bay Furnace, 7pm

For more information contact the Visitor Center at 906-387-3700.



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Imagine camping on top of a 300 foot cliff where the only thing you can hear is the north wind in the trees and the crashing of the waves lulling you to sleep. Or stretching out on a pristine beach where you can't even see the next closest campsite. How about nestling in under the Hemlock trees and whiling away your day beachcombing for agates? If this sounds like the kind of camping you are looking for, then Grand Island National Recreation Area is the place for you. There are 17 individual campsites and two group campsites located on Grand Island. All of these campsites are considered backcountry sites for hikers,

Camp on Grand Island!

bikers and boaters only. There are no permits required for camping on the island.

- For those campers who want to remain relatively close to the ferry dock, there are several individual (6 people or less) campsites within 3 miles of William's Landing. The most popular are located at Murray Bay next to a large day use and picnic area on a lovely beach. Calm waters beckon boaters and swimmers to Murray Bay and the sites are within close proximity to several historic sites.
- For the more adventurous, hike 10 miles to the north part of the Island and stay at Freighter View, Preservation Point, or Gull Point campsites. Situated atop 250-300 ft cliffs, these sites provide spectacular views of Lake Superior. And, they have the added benefit of being close to North Beach, arguably one of the most beautiful beaches in the Upper Peninsula.
- The west side of the Island boasts several campsites near stone covered Mather and Waterfall beaches. Perfect for rock hounds and agate seekers, these beaches also afford fantastic views of Lake Superior and Williams Island.

• For those who like to kayak, Cobble Cove and Flat Rock are located on the thumb portion of the Island. The two campsites are designated boat in only sites because they are difficult to access from land. Perfect for kayakers, these sites offer a secluded oasis with stunning views.

• Two group campsites are available for groups of 7 to 25. Murray Bay Group site sits near the individual sites at Murray Bay. Enjoy all the benefits of the day use area and the convenience of being close to historic sites and Williams Landing. If you want to be a little more secluded, try Juniper Flats group site on the west side of the island. Situated south of Waterfall Beach, Juniper Flats has access to water within walking distance but is located in the woods on top of a bluff. Water and a pit toilet are nearby. Both

of these group sites can be reserved through www.recreation.gov website.

- Random camping (camping other than at a designated campsite) is allowed on Grand Island but be sure to obtain a copy of the rules and regulations before you go.

If you are both observant and lucky, you may be able to see a black bear during your visit. These are wild animals and are NOT to be harassed or fed. Once bears become accustomed to human food, they become a nuisance and a threat to your safety. Use the bear poles or food storage lockers provided, or hang food packs at least 10 feet off the ground and 4 feet away from tree trunks. Never keep food in or near your tent.

Day Use Opportunities

• Grand Island is the perfect place to spend a day or even just a few hours biking and exploring. The island's breathtaking overlooks, pristine sandy beaches, fascinating cultural sites, deep hard woods, and inland lakes make it an exciting and secluded mountain biking destination. The island provides a combination of rugged dirt/sand trails and easier gravel

roads that will accommodate any level of biker. If you don't have a bike with you, no problem!

The Grand Island Ferry Service rents mountain bikes right at William's Landing.

- Spend the day beachcombing, picnicking or swimming on one of Grand Island's fabulous beaches. Accessible by private boat, biking or hiking, these beautiful sand and rock beaches will captivate you.
- Take advantage of a motorized bus tour on Grand Island that takes you on a tour of the some of the island's scenic vistas and historic sites. Each stop on the 2.5 hour tour is designed to give you a glimpse into Grand Island's past and familiarize you with the recreation opportunities that are available.
- Kayakers can experience the island from a unique perspective. Discover private coves and spectacular rock formations from the water.



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Visitors can access Grand Island NRA via the passenger ferry or by personal boat or kayak. There is a \$2 per person per visit fee which can be paid at the ferry service office or at several fee collection locations on the island. If you are interested in planning a day or overnight trip to Grand Island, we recommend that you contact the Visitor Center at 906-387-3700 for more information. We offer updated day use and camping brochures that can assist in planning a trip to suit you. Topographic maps are also available for a fee. For Bus Tour and Ferry schedule and pricing information, please call 906-387-3503.

Construction

This summer, visitors to Grand Island will see construction equipment, crews, and motorized vehicles across the island. We are working to improve your future experience to the Island and apologize for any inconveniences you encounter this year. You may be affected by any one of the following projects:

- Dock construction at both Powell Point and William's Landing (may cause some delays or inconvenience with the ferry service)
- Visitor Contact Station Renovation (will cause limited access to the building)
- Construction of a drinking water well at William's Landing
- North Light Creek Bridge Replacement (trail users will need to use the beach)
- East Rim Trail Culvert Replacements (may cause some delays or interruption of trail activity)
- Tour Bus Storage/Maintenance Facility Construction north of William's Landing
- Rental Cabin Construction



Using Your OHV on the Hiawatha

The Hiawatha National Forest provides an updated version of the Motor Vehicle Use Map (MVUM) annually. The free maps stand alone as a tool to help you determine where you can ride.

To view the Hiawatha's maps on-line, visit our website <http://www.fs.fed.us/r9/forests/hiawatha/> (and click on Maps and Publications). Or obtain a free copy map by visiting one of our Forest offices.



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PICTURED ROCKS NATIONAL LAKESHORE

