

Your Guide to Isle Royale National Park
www.nps.gov/isro

National Park Service
 U.S. Department of the Interior



To Preserve and Protect

WHEN MANY PEOPLE HEAR THE WORDS “NATIONAL PARK,” their thoughts are immediately drawn to vast natural areas like Grand Canyon, Yellowstone and Yosemite. Others may visualize historic sites like the battlefields of Gettysburg, Washington’s birthplace and the Statue of Liberty. These “works of art” are just a few of the nearly 400 units preserved and managed by the National Park Service. These places, together, comprise a gallery of exquisite “tapestries” each depicting special stories of America’s natural and cultural heritage.

This summer, the National Park Service will enter its 90th year. On August 25, 1916, the Organic Act established the National Park Service and set it forward on this mission:

The service thus established shall promote and regulate the use of the Federal areas known as national parks, monuments, and reservations [...] by such means and measures as conform to the fundamental purpose of the said parks, monuments and reservations, which purpose is to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same by such manner and by such means as will leave them unimpaired for the enjoyment of future generations.

In the late 1800s, as settlers pushed farther and farther across the country, there was increasing interest in keeping some lands from private control, for the use of the public as parks. By the time the National Park Service was established, there were already a number of sites set aside as national parks and monuments, but they lacked one Federal organization with a definite mission to manage them. Yellowstone, the first national park, was established in 1872 as a “public park or pleasuring-ground.” Even before Yellowstone, lands in Yosemite Valley were reserved for establishment of a public park, although put under state, rather than federal, control.

These landscapes were considered spectacular and irreplaceable and most importantly, deemed worthy of protection and preservation for the future. In the 1920s, advocates for Isle Royale began to promote the island in this way, as a special place to be preserved. Newspaper articles began to appear (Albert Stoll’s articles in the Detroit newspapers were especially influential),

1916 – Organic Act established the National Park Service

1931 – Legislation passed authorizing Isle Royale National Park

1940 – Isle Royale National Park officially established

1946 – Isle Royale National Park dedicated

1964 – Wilderness Act passed

1966 – National Historic Preservation Act passed

1976 – Isle Royale Wilderness designated

1980 – Isle Royale designated a Biosphere Reserve

fostering the idea of turning Isle Royale into a park. As Stoll, some residents of the island, and other supporters became increasingly concerned about the possibility of large scale logging, they redoubled their efforts. Initially, protecting the island as a state park was the goal, but it was decided instead to pursue national park status.

Isle Royale was authorized in March 3, 1931. The legislation was brief, “...said area shall be, and is hereby established, dedicated, and set apart as a public park for the benefit and enjoyment of the people and shall be known as Isle Royale National Park.”

The significance of the island and the justification for making it a national park was outlined in an accompanying report to Congress by National Park Service director Horace Albright. The report emphasizes the “exquisite, rugged beauty of cliffs of the shorelines,” “perfect examples of nature’s textbooks for the study of scientist and student,” and remains of the “great ancient mining industry.” The report continues:

Here is presented one of the outstanding opportunities for the establishment of a great island national park, unique of its kind in the system, and measuring up to the high standards that have been prescribed for such establishment. [...] Complete protection, of course, is the prime object aimed at.

But a national park is not simply a protected piece of land, a pretty view. It is a tapestry of stories, of individual threads bound together creating a priceless work of art. The mission drives the Park Service to carefully examine each fragile tapestry, to try to understand its intertwined strands, to protect it from damage. Today pollutants from far away sources, invasive species, inappropriate human use and other threats endanger these tapestries - our national parks.

The National Park Service is on a mission to preserve these places and their stories for future generations. But we cannot do it alone. Park partners assist, but ultimately the future of national parks lies in people...people like Albert Stoll and others who fought to protect these special places...people who care for and visit these places today...people like you.

Liz Valencia
 Chief, Interpretation and Cultural Resource Division

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Educational Programs about the natural and cultural history of the Park.

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Books and maps provided through the Isle Royale Natural History Association.



Contacts

Isle Royale National Park

800 E. Lakeshore Drive
Houghton, MI 49931-1869
Phone: 906-482-0984
Fax: 906-482-8753

Website: www.nps.gov/isro

E-mail for General Information:

ISRO_ParkInfo@nps.gov

Emergencies:

During business hours:
906-482-0984

After Hours:

906-483-3169
906-337-4994
906-482-2121

Isle Royale Natural History Association (Books & Maps)

800 East Lakeshore Drive
Houghton, MI 49931-1869
Phone: 800-678-6925; 906-482-7860

Website:

www.irnha.org

E-mail:

irnha@irnha.org

Rock Harbor Lodge Summer

P. O. Box 605
Houghton, MI 49931-0605
Phone: 906-337-4993

Winter

Isle Royale Resorts, P. O. Box 27,
Mammoth Cave, KY 42259-0027
Phone: 270-773-2191

Website:

www.isleroyaleresort.com

E-mail:

isleroyaleresort@starband.net

Weather Forecasts for Isle Royale Michigan

www.crh.noaa.gov/mqt

Minnesota

www.crh.noaa.gov/dlh

National Weather Service Radio Forecasts

- 162.400 MHz from Houghton, Michigan.
- 162.475 MHz from Thunder Bay, Ontario, Canada.

Michigan's Keweenaw Tourism Council

Phone: 800-338-7982

Website:

www.keweenaw.info

E-mail: info@keweenaw.info

Minnesota's Grand Marais Visitor Information Center

Phone: 888-922-5000

Website:

www.grandmarais.com

Michigan Department of Natural Resources Fishing License Purchase:

Website:

www.michigan.gov/dnr

This publication is produced by Isle Royale National Park and the Isle Royale Natural History Association.

- Edited by Greg Blust, Jill Burkland, and Valerie Bowen.
- Photographs from the Isle Royale National Park collection.
- Isle Royale Natural History Association funded this publication.

—Printed on recycled paper—



The National Park Service cares for special places saved by the American people so that all may Experience Our Heritage



Did You Know?

The National Park Service is comprised of almost 400 units. Each site holds special significance to the heritage of the United States of America. Can you guess which National Park Service site protects:

- 1) The longest recorded cave system in the world?
- 2) The highest waterfall in the United States?
- 3) The deepest lake in the United States?
- 4) The largest concentration of geysers on the planet?

Isle Royale, too, protects innumerable natural and cultural resources. Of special significance, Isle Royale National Park preserves:

A wilderness archipelago isolated by the size and power of Lake Superior

A living laboratory for research in a remote, relatively simple ecosystem with limited human influences

The most productive fishery and genetically diverse lake trout populations in Lake Superior

The opportunity for a primitive wilderness experience

1) Mammoth Cave NP, KY; 2) Yosemite NP, CA; 3) Crater Lake NP, OR; 4) Yellowstone NP, WY

True wilderness is more marvelous (and harder to retain) than the grandiose spectacular features of our outstanding parks.

Naturalist Adolph Murie, 1935, Comparing Isle Royale to established parks like Yellowstone and Yosemite

Isle Royale is a part of an entirely different world than the one in which we labor daily. It knows nothing and cares less of the triumphs of modern civilization.

Albert Stoll Jr., Former Detroit News Conservation Editor

From these pathways, unending and everchanging scenes of marvelous beauty would be unfolded, without disturbing the wilderness character of the area.

Horace Albright, Director National Park Service, Memo regarding Isle Royale to Congress 1931

Isle Royale National Park

To step into Isle Royale is to leave behind one's own self and one's world and to begin a new exploration into the nature of life.

Napier Shelton, Superior Wilderness 1997

..this shard of a continent becalmed in the green fresh-water sea is indeed royal, sovereign, isolate, supreme.

T. Morris Longstreth, The Lake Superior Country 1924

On this continent and in the world, Isle Royale is an almost unique repository of primitive conditions. Like a priceless antique, it will be even more valuable in time not far ahead.

Durward Allen, Wolves of Minong 1979

Keeping "Wild" in Wilderness

The most frequent comment I hear from our visitors concerns keeping Isle Royale the same... people love it, just the way it is. Indeed that is the core goal for managing any Wilderness park: to let nature take its course and to minimize human impacts. These impacts include air pollution, exotic species introductions, and population growth. Keeping the "wild" in Wilderness, in the advent of these impacts of the 21st century, coupled with the expectations of a new generation of park users, complicates the pursuit. This challenge is best met, in my mind, through constant dialogue with our public, coupled with constant monitoring of our resource's health.

Every 10 to 15 years we need to stop and assess the direction the park is headed. The recent Wilderness and Backcountry Management Plan creates that

opportunity. The plan provides management direction that will be guided by follow-up monitoring of resource impacts. It will address issues raised during interviews and interactions with our users, including overcrowding of campsites and concerns over the number of interactions on the trails. The Wilderness and Backcountry Management Plan draft was presented to the public this past fall for comment. I am committed to reading and evaluating every comment prior to making a decision on the plan. A decision should be finalized this summer. Additional information will be available at the park's visitor centers and on our website, www.nps.gov/isro. The final decision will allow nature to travel its path while minimizing human impacts.

Phyllis Green
Superintendent

A History of Cooperation

The Isle Royale Natural History Association was founded almost 50 years ago by a group of Isle Royale residents and National Park Service staff. Their love of Isle Royale prompted them to form an organization that would share the story of one of the country's newest national parks. Over the years, the Isle Royale Natural History Association (IRNHA) has grown from a small group of local residents to a membership of 1,200 people from every state in the country. Today's IRNHA mission remains unchanged: to work with the National Park Service to protect Isle Royale's natural and cultural resources and to make those resources known to park visitors and non-visitors alike.

Park visitors may first benefit from IRNHA projects when they receive a copy of the park newspaper, *The Greenstone*- 25,000 copies are printed each year. While planning your trip, you might phone IRNHA or check our website to order a map, a book, or a lake chart. Most every park visitor will stop at a visitor center in Windigo, Rock Harbor or Houghton. There you will have the opportunity to purchase from IRNHA sales outlets a variety of field guides and books about Isle Royale's natural and cultural history. You might receive some

camping advice or information on blooming wildflowers from an IRNHA staff member, pick up a free brochure on invasive species or the Artist-in-Residence Program produced by IRNHA, or enjoy an exhibit that we helped to finance. While on the island, you might attend an interpretive program supported with materials supplied by IRNHA. All around you are results of other IRNHA projects. Some are visible, like the refurbished historic cabin at Chippewa Harbor; others are not so readily apparent, like the invasive burdock plants that are no longer growing at Daisy Farm campground or the beavers that are being carefully monitored as a result of IRNHA funding.

But you don't have to visit Isle Royale to receive benefits from IRNHA. Students in elementary schools throughout Michigan's Upper Peninsula are using our new publication *Wolf Tracks and Moose Scat: A Visit to Isle Royale* to learn about the island and about predator/prey relationships. Over 1,000 free copies were sent to schools in 2005. People in Ames, IA; Duluth, MN and Madison, WI are more knowledgeable about Isle Royale wildlife because of wolf and loon programs that IRNHA has sponsored in those and other communities. Visitors to art museums in Escanaba, Muskegon, Hancock, and

Duluth had the opportunity to learn about the Isle Royale Artists in Residence Program firsthand through our traveling exhibit. The IRNHA website is a source for Isle Royale products and information for people around the world.

The Isle Royale Natural History Association has been a partner with Isle Royale National Park for almost a half-century. We look to Isle Royale visitors to help us continue our mission of supporting park publication, interpretation, preservation, conservation, and research at Isle Royale National Park. You can support IRNHA projects by joining

1,200 other members at a park visitor center, on the web at www.irnha.org, or by calling 800-678-6925

**Jill Burkland, Executive Director
Isle Royale Natural History
Association**



2005 IRNHA Board of Directors

Partnerships in the Wild

For almost 50 years the Wolf/Moose Study, a partnership between Isle Royale National Park and Michigan Technological University, has been observing the interplay of species on this isolated island.

Most carnivore species lead solitary lives. But wolves are different. They live and hunt in packs. Scientists have long wondered why wolves live in packs. Isle Royale research has for many years played a key role in better understanding why it is that wolves live in groups.

For a long time it was thought that wolves were not able to kill large prey, like moose, unless they hunted in groups. This idea was finally dis-

proved, when individual Isle Royale wolves were observed killing moose.

A related idea has been that wolves living in groups got more food (per wolf), because group hunting was more efficient. However, in the early 1990s this idea was also disproved by observing and analyzing years of kill rate data for Isle Royale wolves living in different-sized packs. This analysis indicated that on a per wolf basis, wolves living in smaller packs got more food than wolves in larger packs, perhaps because there were fewer wolves to share with. This analysis suggested that wolves would get the most food if they lived in groups no larger than pairs.

Recently, it occurred to me that wolves don't actually eat all that they kill. They lose much of it to scavengers, especially ravens. You never see wolves without ravens nearby. They are constantly encountered at kill sites.

So I asked the questions: How much food can a raven take per day? (It can eat and stash about two pounds.) How much can a wolf eat? (A single wolf can eat up to 18 pounds in a few hours.) Putting the pieces together, I thought that in bigger packs, the individuals might actually get more food, not less. Although the wolves in larger packs would have to share more with their fellow pack mates, they would lose less to ravens. I was able to test

the merit of this idea by subjecting our Isle Royale wolf data to extensive and complicated analysis. In the end, the mathematical analysis supported my original idea.

Ravens and other scavengers seem to be an important reason why wolves live in packs. The moral of the story may be, if you're eating something big, you have to have a way to deal with scavengers. For more information about this and other research findings for Isle Royale wolves, please visit www.isleroyalewolf.org.

**Dr. John Vucetich
Research Assistant Professor
Michigan Technological University**

Interpretive Activities

Enjoyable and educational programs are offered on Isle Royale at Rock Harbor, Daisy Farm, and Windigo, and they are also presented on the National Park Service vessel, *Ranger III*. In addition, guided excursions explore such areas

as Passage Island and Lookout Louise near Rock Harbor. Ranger guided programs are free, although those involving the tour boat *MV Sandy* include a transportation fee. Check at local bulletin boards for further details. For outdoor

activities, dress for the possibility of cold or rain and wear sturdy footwear. Trails are slippery and muddy during or after wet weather; wear shoes with good ankle support, weatherproofing, and soles that grip well. COME JOIN US!

Budget shortfalls have reduced staffing. Check at Park Visitor Centers for availability of educational programs.

- All times are Eastern Daylight Time
- \$ = transportation cost
- ** = indicates tours with a park ranger

ROCK HARBOR AREA	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Rock Harbor Visitor Center Information, books, maps, educational sales materials, camping permits, user fee payments			Daily 8:00 a.m. to 6:00 p.m. — July and August Reduced schedule in May, June, and September				
Island Connections Join a park ranger for an in-depth exploration of Isle Royale's natural and cultural history. May be offered during evening hours.			Check at the Visitor Center for availability, location, and time.				
Rock Harbor Reflections Take a leisurely hike with a park ranger to discover Rock Harbor's special places.			Check at the Visitor Center for availability, location, and time.				

MV SANDY TOURS FROM ROCK HARBOR	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
The trails on guided tours are rocky and uneven with some steep climbs and descents; trails may be slippery. Be prepared for cold temperatures and the possibility of rain. If stormy weather cancels the boat trip, an alternate guided hike is offered.	For all tours and programs involving the <i>MV Sandy</i> , obtain tickets and information at the Lodge Registration Office. <i>MV Sandy</i> Tours will operate from June 7 through September 9. Fare rates for the various tours are available at the Rock Harbor Lodge and Rock Harbor Visitor Center; children under 12 are charged half-price for the <i>MV Sandy</i> .						

Hidden Lake/Lookout Louise (\$)** Greenstone Shuttle A 4-mile boat trip on the <i>MV Sandy</i> to Hidden Lake Trailhead followed by a guided 2-mile round trip hike past Hidden Lake up 320 feet to Lookout Louise. View the south shore of Canada and the north shore of Isle Royale. Return with the group or bring a lunch and water and hike 9.4 miles back to Rock Harbor.			9:00 a.m. to 12:30 p.m.		9:00 a.m. to 12:30 p.m.		
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Passage Island (\$)** An 8-mile boat tour on the <i>MV Sandy</i> crosses one of Isle Royale's popular shipping lanes. The 2-mile guided round-trip hike leads to Passage Island Lighthouse and explores an area of low moose presence.		1:30 p.m. to 6:00 p.m.	Due to project work, lighthouse access may be disrupted during July and August.			1:30 p.m. to 6:00 p.m.	
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North Side Cruise/Minong Mine (\$) Cruise two hours each way along Isle Royale's north shore bays. Pass Blake Point and Amygdaloid Island, with a possible stop at Belle Isle. A guide may be available to lead a 3-mile hike from McCargoe Cove to the historic Minong Mine. The hike includes difficult walking over steep piles of loose rock on an unmaintained trail. Trip may include a hike to Pine Mountain, offering excellent views of the Canadian shoreline. Bring lunch and beverage.				9:00 a.m. to 5:30 p.m.			
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Edisen Fishery and Rock Harbor Light (\$) Visit the historic commercial fishery with the resident fishery demonstrator (July thru August), take a quarter-mile walk to the oldest lighthouse (1855) on Isle Royale and enjoy its maritime exhibits.					2:00 p.m. to 6:00 p.m.		9:00 a.m. to 1:30 p.m.
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Captain's Cruise (\$) Explore with the Captain of the <i>MV Sandy</i> , scenic, out-of-the-way destinations, such as Middle Island Passage, Lorelei Lane, Rock Harbor Lighthouse, Davidson Island, and Starvation Point.			2:00 p.m. to 5:30 p.m.				
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Raspberry Island/Sunset Cruise (\$) Take a walk along a boardwalk through the spruce bog on Raspberry Island followed by a cruise on the <i>MV Sandy</i> around Scoville and Blake Points to view features like the Canada shoreline, the site of the <i>Monarch</i> shipwreck, and a Lake Superior sunset (after Aug. 15, cruise only).			8:00 p.m. to Sunset in June-July 7:30 p.m. to Sunset in August-September				
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DAISY FARM	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Check for availability of evening programs at the campground bulletin board. Learn about Isle Royale's natural and cultural history at the site of a historic settlement.				May be offered 7:30 p.m. to 8:30 p.m.			May be offered 7:30 p.m. to 8:30 p.m.

WINDIGO	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Windigo Visitor Center Information, books, maps, and other educational sales materials, camping permits, user fee payments.	Daily 8:00 a.m. to 4:30 p.m. — (may close midday for ferry arrivals) June 10 through September 17 Reduced schedule, May through mid-June and late September						
Island Insights Join a park ranger for an in-depth exploration of Isle Royale's natural or cultural history. May be offered during evening hours.			Check at Visitor Center for availability, location, and time.				
West End Wanders Stroll along the trail with a park ranger to discover Windigo's special places.			Check at Visitor Center for availability, location, and time.				
Windigo Whispers Listen to stories of Isle Royale's natural or cultural history as shared by a park ranger.			Check at Visitor Center for availability, location, and time.				

HOUGHTON	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Houghton Visitor Center Information, books, maps, and other educational sales materials, <i>Ranger III</i> and group camping reservations, trip planning, boater camping permits, and user fee payments.	Open year-round, except for fall and winter holidays, 8:00 a.m. to 4:30 p.m. Monday through Friday 6/5 through 8/19 open 8:00 a.m. to 6:00 p.m. Monday through Friday. Saturday 10:00 a.m. to 6:00 p.m. 8/21 through 9/9 open 8:00 a.m. to 4:30 p.m. Monday through Friday, Saturday 10:00 a.m. to 4:30 p.m.						

RANGER III	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Maritime Program (\$) While onboard, park staff and guest speakers, weather permitting, will present educational and interpretive programs centered around Isle Royale and Lake Superior. Park staff will assist you in trip planning, answering questions, and issuing your backcountry camping permit.			9:00 a.m. to 3:00 p.m. 6/6 thru 9/12	9:00 a.m. to 3:00 p.m. 6/7 through 9/13		9:00 a.m. to 3:00 p.m. 6/2 thru 9/8	9:00 a.m. to 3:00 p.m. 6/3 through 9/9

JUNIOR RANGER PROGRAM								
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
Children 6 to 12 years old can participate in the Junior Ranger Program. Check at any Isle Royale National Park Visitor Center for details. Children can graduate in one full day and receive a badge and certificate.			Available at Rock Harbor and Windigo. Available Tuesdays, Wednesdays, Fridays, and Saturdays aboard the <i>Ranger III</i> .					

Wilderness Use

During Isle Royale's early history, visitors risked much to get there. They did not come to vacation; they came to tame the wilderness through mining its copper, harvesting its fish, and logging. The island was never tamed, the resource never conquered, but its landscape holds the scars of these early attempts. Today Isle Royale has reverted back to a primitive wilderness. The environmental conditions historically viewed as a burden are now attracting a new clientele. Today's visitors, as in the past, can still adversely affect this sensitive resource. To minimize your impact on park resources and other visitors, please practice "Leave No Trace" (for additional information request a copy of the park's Leave No Trace booklet or visit www.lnt.org). Where you place your feet is as important as how you treat and dispose of waste. Be part of the solution: help maintain the sense of solitude and preserve the wilderness flavor, a flavor that has the potential to change your life. Proper wilderness use begins with reading, supporting, and putting into practice the following information.

Camping

Permits are required for all overnight stays at campgrounds, cross-country sites, docks, or at anchor, regardless of group size or method of travel.

Party Size Defined

The party size for camping at Isle Royale is divided into two categories.

"Individual" parties are defined as a group of six or fewer people. "Group" parties are defined as seven to ten people. There are different requirements outlined below based on party size.

Individual Camping Permits — parties of six or fewer

Camping for individual parties is on a first-come, first-serve basis. Individual parties can obtain permits onboard the *Ranger III* or upon arrival at Rock Harbor or Windigo Visitor Centers. For trip planning assistance, call (906) 482-0984; write to Isle Royale National Park, 800 East Lakeshore Drive, Houghton, Michigan 49931, or E-mail ISRO_ParkInfo@nps.gov.

Group Camping Permits — parties of seven to ten

Advance reservations are required for group camping. For reservations and trip planning assistance call (906) 482-0984; write to Group Reservations, Isle Royale National Park, 800 East Lakeshore Drive, Houghton, Michigan 49931, or E-mail ISRO_GroupReserve@nps.gov. If your party exceeds ten people, you must split into two groups, each independent and traveling on completely separate itineraries. Groups shall camp in group tent site locations only (see chart on page six). Group leaders shall carry medical information for each group member including known allergies, known medical conditions, and medications currently taken. Organizations may not have more than twenty people camping

on the island at any one time and are limited to eighty people per year.

Where to Camp

All campsites on Isle Royale offer tent sites and/or three-sided shelters. Shelter and tent sites are available on a first-come, first-serve basis. Shelters may not be reserved and may not be used solely for cooking or storage of gear. Tents may not be erected at shelter sites. Be gentle with screen doors on shelters to minimize intrusive noise and to prevent damage.

Expect crowded conditions at park campsites during mid-July through August. When sites are full, we ask campers to double up and share empty tent pad space.

Campers must stay in established campsites unless off-trail (cross-country) arrangements are made at the time the permit is obtained. Off-trail hiking and camping is difficult at Isle Royale, and is only recommended for experienced campers.

Commercial Groups

Organizations that charge trip participants a fee or that compensate members or trip leaders in any way are commercial groups under federal law. This applies to both non-profit and for-profit organizations. Commercial groups must apply for and receive a Commercial Use License to conduct trips in the park. There is a fee for this permit. Applications are only accepted between January 2 and May 15; contact the park's Chief Ranger's Office at (906) 487-7148.

"Quiet, Please"

Most visitors come to Isle Royale to hear the sounds of nature in a wild setting. Excessive human noise disturbs wildlife and other visitors. Sound travels easily over the water and on the trail. During quiet hours, between 10:00 p.m. and 6:00 a.m. EDT, if people in adjacent campsites can hear your activities, you are being too loud.

Respect Wildlife

Observe, photograph, and enjoy park wildlife from a safe distance. Use binoculars or a zoom lens "to get closer" to wildlife. If animals flee, become defensive, or change their natural activities in your presence, you are too close! Loons are especially susceptible to disturbance, and may abandon their nests when approached too closely by boats. Cow moose with calves, particularly in the spring, and bull moose during the fall rut can be dangerous; give them a wide berth.

It is illegal to feed, touch, tease, or intentionally disturb wildlife, their homes, nests, or activities. Animals, particularly fox and otter, when habituated to human food, may eventually overcome their natural wariness of humans and may have to be destroyed.

Human Waste

Proper disposal of human waste helps prevent pollution of water sources, minimizes aesthetic impacts to other visitors and reduces the spread of illness. Never defecate within 200 feet (at least 75 steps) of lakes, streams, trails, gullies, or campsites. In areas without outhouses, select a site that visitors are unlikely to discover. With a small trowel, dig a "cathole" 6 to 8 inches deep and 4 to 6 inches in diameter.

Place used toilet paper and fecal material in the hole. Use toilet paper sparingly. After use, cover the "cathole" with the excavated soil and disguise it with natural materials. Urinate on durable surfaces, such as rocks, gravel, or fallen logs; away from campsites and water sources. Pack out all used feminine-hygiene products, carrying them in plastic bags, doubled to confine odor.

Showers

The concession operation offers token-operated shower facilities at Rock Harbor (5/26–9/8) and Windigo (6/6–9/10).

Waste Water Disposal

Cleaning Cookware

Most cookware can be cleaned with hot water, a little elbow grease, and sand or other natural scrubbers. Clean cookware at least 200 feet (75 steps) from lakes, streams, trails, gullies, or campsites. Soap is unnecessary for most dishwashing jobs; if used, use it sparingly. Even biodegradable soaps take a long time to degrade. Use a small strainer or screen to remove food bits from the water and pack them out with your garbage. The remaining gray water should be scattered or broadcast over a wide area away from camps and water sources.

Bathing/Cleaning Clothes

When bathing use soap only if necessary and use it sparingly. Get wet and rinse on land at least 200 feet (75 steps) away from water sources or campsites. Rinse water can be carried in collapsible containers or pots. Clothes can be cleaned by taking them away from water sources and campsites and thoroughly rinsing them with plain water.

Drinking Water

Potable water is only available at Rock Harbor and Windigo proper. All surface lake and stream water should be considered contaminated with natural parasites. Drinking contaminated water can make you very sick. Water collected in the park should be boiled for at least two minutes, purified, or passed through a 0.4-micron water filter. Chemical treatment is not an effective method of water purification. If you boil your water, bring plenty of stove fuel. If filtering, bring a replacement cartridge for those filters that cannot be cleaned in the field.

Precautions should be taken to prevent filters from becoming clogged. Filter water from a pot rather than directly from a lake or creek. Allow the sediment in the pot to settle and filter only from the cleaner water on top.

Dehydration is a problem in hot weather. The Greenstone, Minong, and other trails become hot and dry, and creeks that once offered water may be dry. In addition, there is little or no dependable water available along many trails. To avoid dehydration, be sure to carry a minimum of 2 quarts of water per person. Drink as much water as possible while near water sources. Start hiking early before the day heats up – on ridges it starts getting hot at 10:00 a.m. on sunny days and gets hotter through late afternoon. Hike at a slower pace than usual

and rest in shady spots. Watch for early warning signs of dehydration such as thirst, heavy sweating, fatigue, and a red face. Watch for signs of severe dehydration such as reduced or no sweating, headache, long stretches without urinating, dizziness, and nausea.

Virus Watch

West Nile Virus

This virus has been in the United States since 1999. There have been no reported cases of this virus at Isle Royale National Park. Illness from the virus is rare. Most infections are mild, and symptoms include fever, headache, and body aches, occasionally with skin rash and swollen lymph glands.

Birds are a main source of infection for West Nile Virus. Mosquitoes acquire the virus from biting an infected bird. Infected mosquitoes transmit the virus to humans while biting. Additional information on the West Nile Virus can be found at www.cdc.gov/ncidod/dvbid/westnile/index.htm.

To minimize risk, wear a long-sleeved shirt and long pants. Apply insect repellents containing DEET up to 35% concentration for adults and 10% for children. Avoid using DEET on children less than two years old. Reduce harmful effects of DEET on the human body by applying it to clothing rather than skin.

Hantavirus

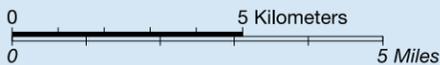
There have been no reported cases of Hantavirus at Isle Royale National Park. Generally, there is a low probability of infection. However, the death rate is very high among infected individuals. The first symptoms are flu-like; the primary symptom is difficulty in breathing and quickly progresses to an inability to breathe.

The deer mouse is the primary carrier of the virus. An infected mouse carries the virus in its urine, saliva, feces, and in the carcass. The primary way humans become infected is through breathing in the virus. Infection can also occur by touching the mouth or nose after handling contaminated materials.

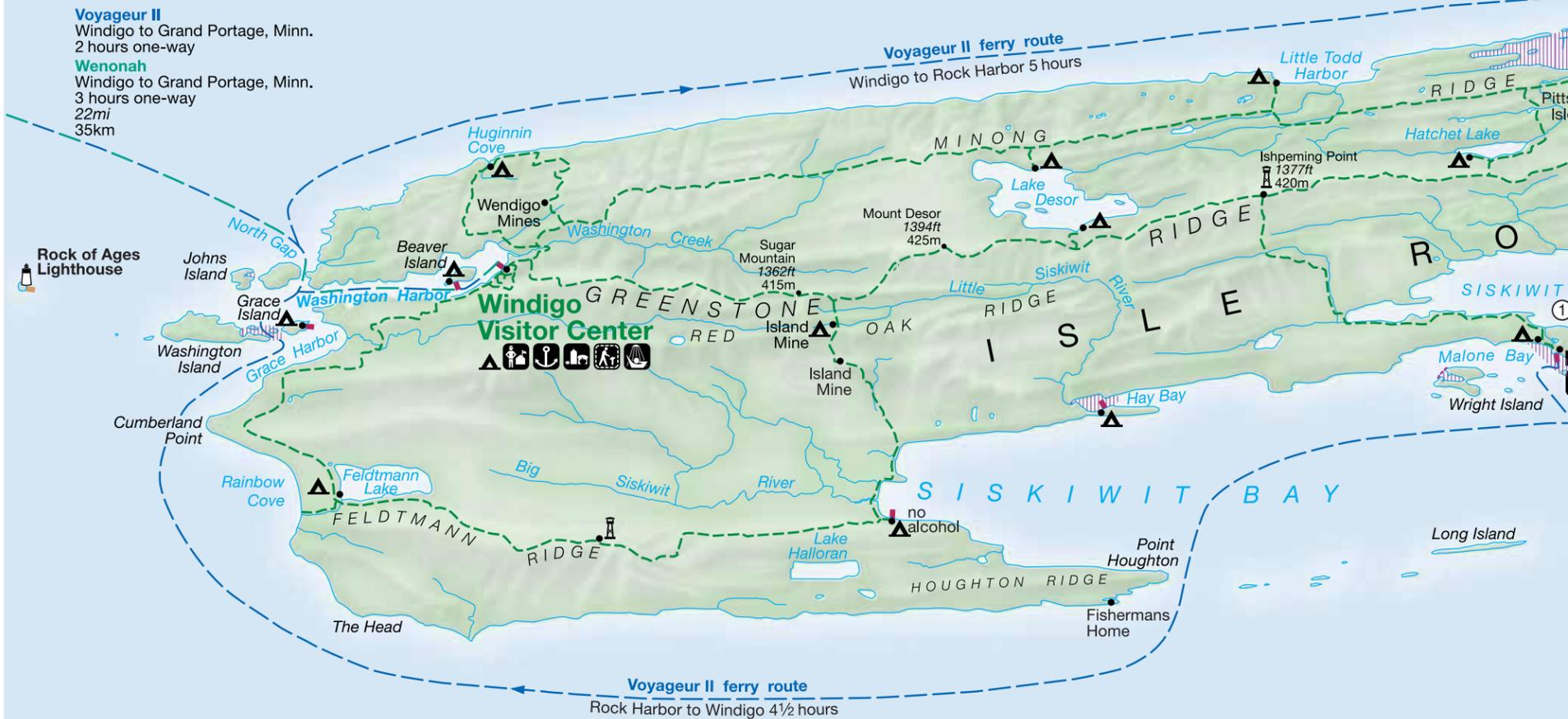
To minimize risk, avoid coming into contact with rodent droppings and burrows, avoid sleeping on bare ground, and store food and garbage in rodent-proof containers. For additional information on Hantavirus contact the Centers for Disease Control and Prevention at 800-532-9929.

Pack It In, Pack It Out

It starts at home. Through careful meal planning and repackaging of food items, you can reduce food leftovers and trash in the backcountry. Please pack out everything you take in. Leftover food, food-scrap, orange peels, nutshells, apple cores, twist-ties, candy wrappers, fishing line, and cigarette butts must be packed out. If you have food leftovers, either save and eat them later or pack them out. Do not burn, bury or place trash, food scraps or garbage in outhouses. Please help keep the backcountry clean by packing out what you packed in.



Do not use this map for navigation. See Boating on Page 8.



Isle Royale National Park boundary extends 4.5 miles into Lake Superior from Isle Royale and the outer islands, or to the international boundary.

- Public overnight dock
- Trail
- Ranger Station
- Lookout Tower
- Marina
- Day use only dock
- Quiet/No Wake
- Campsite
- Lighthouse
- Self-guiding Trail

CAMPGROUNDS

WARNING: Depth at dock. Know your boat's draft.

KEY: CR - Fires in community ring only
 S - Self contained stoves only
 W - Treated water supply
 F - Campfires allowed or standing grills provided
 A - No Alcohol

	Consecutive Night's Stay Limit Effective 6/1 - Labor Day	Individual Tent Sites	Shelters	Group Tent Sites	Special Information	Approx. Depth at Dock in Feet	On-board Generator Use Permitted*
Beaver Island	3	0	3	0	S	2' - 5'	yes
Belle Isle	5	1	6	0	F	13'	yes
Birch Island	3	1	1	0	S	5'	no
Caribou Island	3	1	2	0	CR	10'	yes
Chickenbone E.	2	3	0	1	S	-	-
Chickenbone W.	2	6	0	3	S	-	-
Chippewa Harbor	3	2	4	1	F	7'	no
Daisy Farm	3	6	16	3	S	9'	no
Desor N.	2	3	0	0	S	-	-
Desor S.	2	7	0	3	S	-	-
Duncan Bay	3	1	2	0	F	6'	no
Duncan Narrows	3	1	2	0	F	6'	no
Feldtmann Lake	2	5	0	2	S	-	-
Grace Island	3	0	2	0	S	2' - 4'	yes
Hatchet Lake	2	5	0	3	S	-	-
Hay Bay	3	1	0	0	S	3' - 7'	yes
Huginnin Cove	3	5	0	0	S	-	-
Intermediate Lake	2	3	0	0	S	-	-
Island Mine	3	4	0	2	F	-	-
Lake Richie	2	4	0	2	S	-	-
Lake Richie/Canoe	2	3	0	0	S	-	-
Lake Whittlesey	2	3	0	0	S	-	-
Lane Cove	3	5	0	0	S	-	-
Little Todd	2	4	0	0	F	-	-
Malone Bay	3	0	5	2	F	3' - 6'	yes
McCargoe Cove	3	3	6	3	CR-A	7'	no
Merritt Lane	3	1	1	0	S	8'	no
Moskey Basin	3	2	6	2	S	8'	no
Pickrel Cove	2	1	0	0	S	-	-
Rock Harbor	1	11	9	3	W-S	-	-
Rock Harbor Marina	Unlimited	-	-	-	F	3' - 12'	yes
Siskiwit Bay	3	4	2	3	CR-A	2' - 6'	no
Three Mile	1	4	8	3	S	9'	no
Todd Harbor	3	5	1	3	CR	2'	no
Tookers Island	3	0	2	0	S	7'	no
Washington Creek	3	5	10	4	S-W	-	-
Windigo Dock	5	-	-	-	S	4' - 20'	yes
Wood Lake	2	3	0	0	S	-	-

*see Isle Royale Boating Guide for details

CANOE PORTAGES

- Distance•Elevation-Change•General Comment
- ① Malone Bay - Siskiwit Lake - .3 miles, 40' Gradual Slope
 - ② Siskiwit Lake - Intermediate Lake - .4 miles, 40' Gradual
 - ③ Intermediate Lake - Lake Richie - .6 miles, 120' Hilly and wooded
 - ④ Wood Lake - Lake Whittlesey - .6 miles, 80' Rolling
 - ⑤ Lake Whittlesey - Chippewa Harbor - .6 miles, 140' Steep grades and rocky
 - ⑥ Chippewa Harbor - Lake Richie - 1.2 miles, 160' Hilly
 - ⑦ Moskey Basin - Lake Richie - 2.0 miles, 120' Gradual but very long
 - ⑧ Lake Richie - Lake LeSage - .6 miles, 100' Steep grades, wet
 - ⑨ Lake LeSage - Lake Livermore - .4 miles, 80' Steep grades, wet
 - ⑩ Lake Livermore - Chickenbone Lake - .2 miles, 40' Steep but short
 - ⑪ Chickenbone Lake - McCargoe Cove - .7 miles, 80' Hilly
 - ⑫ Pickrel Cove - .1 miles, 10' Short and sweet
 - ⑬ Lane Cove - Stockly Bay - .1 mile, 8' Short and sweet
 - ⑭ Five Finger Bay - Duncan Bay - .2 miles, 8' Short and sweet
 - ⑮ Duncan Bay - Tobin Harbor - .8 miles, 175' Extremely steep
 - ⑯ Tobin Harbor - Rock Harbor - .2 miles, 40' Up and over

NOTE: Because of Isle Royale's geology, north-facing slopes are much steeper than south-facing slopes.



MEDICAL + TIPS

- The island's wilderness and Lake Superior present challenges and potential hazards to the inexperienced or ill-prepared.
- Basic emergency services are available on the island, but contacting rangers for assistance can be difficult. Emergency response and evacuation may take time, requiring you to rely on your own skills and equipment. Most private boaters on Lake Superior have radios and can contact park rangers in an emergency.
- Bring a good first aid kit, a sufficient supply of any needed medications, and clothing appropriate for the time of year.
- Boil or filter all surface water. Drink plenty of water. When dehydrated, you tire more quickly, don't think clearly, and are more prone to fall.
- **Weather and lake conditions can deteriorate quickly and unexpectedly. Hypothermia can occur any time of the year, especially near Lake Superior, where water and air temperatures are cool to cold year-round. Fog and waves can quickly create dangerous conditions for boaters, especially for paddlers.**
- Many people underestimate hiking travel times and overestimate their abilities. Plan shorter, realistic travel days; don't turn your wilderness trek into a forced march.

FISHING REGULATIONS

Species	Seasons	Minimum Size	Daily Possession Limit	Comment
Lake Trout, Rainbow Trout and Salmon Lake Superior	April 16 to October 31	15"	5 in any combination, but no more than 3 of any one species	*1 *2
Coaster Brook Trout Lake Superior	May 1 to Labor Day	N/A	Catch and release only in park's Lake Superior waters.	*1 See Greenstone article page 10 for details
Brook Trout Streams and Hidden Lake	Last Saturday in April to Labor Day	N/A	Catch and release only — No possession allowed	Artificial lures *3 and barbless hooks *4 only on all streams and on Hidden Lake See Greenstone article page 10 for details
Rainbow Trout Streams		7"	5 fish with no more than 3 fish over 15"	
Yellow Perch Lake Superior and Inland Lakes	April 16 to October 31	No minimum size	50	Recommend daily limit of 10
Northern Pike Lake Superior and Inland Lakes		24"	5 in any combination, but no more than 2 Northern Pike	Artificial lures only on interior lakes and streams**
Walleye Lake Superior and Inland Lakes	May 15 to October 31	15"		

For additional fish species, seasons, and creel limits, please review the Michigan Fishing Guide

- *1 Park boundaries extend 4.5 miles out into Lake Superior from the outermost land areas of the park.
- *2 For additional trout/salmon fishing information, review the Michigan Fishing Guide.
- *3 Artificial lure means any lure or fly manufactured in imitation of, or as a substitute for natural bait. It is unlawful to use or possess live bait, dead or preserved bait, organic or processed food, or scented material on interior lakes or streams.
- *4 Only barbless hooks may be used for fishing the park's rivers, creeks, and streams, and Hidden Lake. Barbed hooks are allowed on all other inland lakes in the park.

Wilderness Use

Leave What You Find

Enjoy your discoveries and take them home via photographs, drawings, and memories. Natural objects of beauty or interest such as moose antlers, plants, driftwood, cultural or archeological resources, greenstones, agates, datolite and other minerals, including those found in Lake Superior must be left where they are so others can experience the same sense of discovery. Removing, possessing, or disturbing park resources is prohibited. This may seem like a harmless act, but the cumulative effect of many people doing the same can be quite damaging to park resources. Picking small quantities of berries and wild edibles for personal consumption is permitted.

Insects

Expect mosquitoes, black flies, gnats, and other insects to peak in June or July. During wet summers, mosquito populations can continue well into August. Bring insect repellent, netting, or other skin barriers. Refer to page 5, under “Virus Watch” for more details. Make sure your tent’s mosquito netting is in good repair and the zippers work. Dry summers will produce an abundance of yellow jackets. Bring an epinephrine kit if you or a member of your party is allergic to bee stings. For others, over-the-counter antihistamines may help counter minor swelling and itching.

Minimize Use of Fires

Campfires are permitted at only a handful of campgrounds. A backpacking stove is a must; these stoves are lightweight, dependable, easier to use, and less damaging to the park than wood fires. Twig-burning backpacking stoves are permitted. Where campfires are allowed, a metal fire ring is provided; never build your own ring. Gather only dead and down wood away from the camp area. Use small diameter wood no larger than an adult’s wrist, as this will burn completely and will eliminate the need to pack a hatchet or saw. Collect wood from a wide area and away from the immediate vicinity of camp. This keeps the camp area from becoming depleted of wood and potential nutrients. Do not break branches or strip bark from standing trees, live or dead. Resist the temptation to gather driftwood or wood from beaver dams or lodges. Do not import firewood; insects and pathogens from an infected wood source could devastate Isle Royale’s forests. Do not burn trash in any form. The fire should be kept small. Once finished, make sure the flames and coals are dead out and cold to the touch; double check before going to bed or leaving camp.

Canoeing/Kayaking

Lake Superior is well known for its cold temperatures, fog, and sudden squalls that can generate waves that could easily swamp a canoe. This along with scarce outer shore landing sites adds to the potential danger. Small, open vessels are discouraged from entering these cold treacherous waters and are encouraged to use the numerous miles of waterways that the inland lakes provide.

Canoeists and kayakers should be familiar with weather patterns and consult the Marine Forecast at ranger stations before embarking. Be prepared to adjust your schedule to the weather. A portable marine radio is recommended.

Portages – Canoe routes and portages are on the northeast half of the Island. Portages are marked with a letter “P” on a post.

PFD – Every canoeist and kayaker must have a U.S. Coast Guard approved personal flotation device. Wear it; your life may depend on it.

Boat Rental – Canoe, kayak, and motorboat rentals are available at Windigo and Rock Harbor. For more information contact the Rock Harbor Lodge. (refer to page 2).

Loons

Isle Royale National Park is the summer home for over 100 nesting pairs of Common Loons, supporting the only known population which still breeds on Great Lakes waters. These birds nest on land very close to the shoreline, making them highly susceptible to human disturbance. An adult loon who tremolos (the laughing call) is sending a message that you are too close. From mid-May through July 15 (loon nesting season) visitors are to stay at least 150 feet away from islands. Additional areas may be closed due to loon nesting, please check at the visitor centers for updated information.

Non-Native Species

Isle Royale waters, like all Lake Superior waters, face a growing threat from the invasion of non-native species. Once species like sea lamprey, zebra mussels, or spiny water fleas enter an area, they out-compete native species, causing large-scale changes in the ecosystem.

Two invasive species, the sea lamprey and the spiny water flea, have already established a presence in Isle Royale waters. The spiny water flea presently is found only in Lake Superior. The park is concerned it may enter the inland lakes. Once established, its spines harm predator fish and they disrupt the zooplankton population, the basic food source for many fish species (see related article, page 9).

Zebra mussels have not established a presence in Isle Royale. Their potential to cause catastrophic problems cannot be overstated. If zebra mussels were to enter the inland lakes it is estimated they would cover nearly every habitable surface on an inland lake floor within two years.

What can you do to stop the spread?

Boaters

Drain live wells and bilge on land - remove transom water, lake water, and unwanted bait from your boat - wash equipment with warm water and use a high-pressure sprayer or wait five days before launching for Isle Royale.

Backpackers

Prior to departure, clean your camping gear, clothing, and boots.

Canoeists and Kayakers

Remove weeds, algae, and other plant and animal materials from your boat - dry vessels a day before island departure - clean and dry watercraft when moving from Lake Superior waters to inland lakes.

Anglers

Clean fishing gear before island departure - When moving from Lake Superior to inland lakes, clean gear and change line spools.

Divers

Wash all dive gear in warm chlorinated tap water - Disinfect your wetsuit with a special-purpose shampoo - dry all dive gear and wetsuit for seven days before island departure.

For additional information on invasive non-native species and the preventative measures that you can take - request the park’s brochure “Aquatic Invaders: Stop the Spread & Spread the Word.” Also available online at www.irnha.org.

Wheeled Vehicles/Devices

Wheeled vehicles (except for wheelchairs) or other mechanical forms of transportation are not allowed on trails. This includes bicycles and portaging devices.

Weapons, Traps, & Nets

The use or possession of weapons, traps, and nets is prohibited. Weapons include any implements designed to discharge a projectile or missile in the air or water. Fireworks are prohibited.

Pets

Dogs, cats, and other pets are not allowed. This includes pets on boats within the park boundaries, which extend 4 1/2 miles into Lake Superior from the outermost land areas of the park. Visitors bringing pets to Isle Royale will be required to leave immediately. Pets disturb wildlife and can transmit diseases, particularly to wolves. Special conditions apply to guide dogs. Please contact the park for further information.

Boating

All boaters staying overnight at anchor, at docks, or in campgrounds must first obtain a camping permit. Lake Superior offers challenging and often dangerous weather in the form of dense fog, high winds, waves, and thunderstorms. Combine this with rocky reefs, limited safe harbors, and Isle Royale’s remoteness, and it pays for you, your crew, and your boat to be shipshape. For additional information on boating and trip planning please request the park’s Isle Royale Boating Guide. In addition to Houghton, Rock Harbor, and Windigo, boaters may obtain Isle Royale camping permits and pay user fees at the U. S. Forest Service Ranger Station in Grand Marais, Minnesota.

Restricted Water Activities – Water skiing and personal watercraft including vessels commonly referred to as jet skis, waverunners, sea-doo’s, wet bikes, or surf jets are prohibited. Since all of the park’s inland lakes are located within designated Wilderness, they can only be explored by paddling. Vessels with motors (even if not in use) are prohibited on inland lakes and streams.

Portable Generators, Electronic and Motorized Devices – Operation of electronic and motorized devices such as stereos, televisions, radios tuned to commercial stations and portable generators is not permitted except in developed and open-water motorized zones. Developed areas include the Windigo and Rock Harbor developed areas, and the Mott Island Headquarters area. Open water motorized zones include Lake Superior waters outside of designated “quiet/no wake waters”. **On-Board Generators** – The operation or use of permanently installed (by the boat manufacturer) on-board vessel generators is allowed between 6:00 a.m. and 10:00 p.m. in developed zones and at the following docks: Beaver Island, Belle Isle, Caribou Island, Grace Island, Hay Bay, Malone Bay, Rock Harbor, and Windigo. On-board generators may not be operated or used at the following public docks: Birch Island, Chippewa Harbor, Daisy Farm, Duncan Bay, Duncan Narrows, McCargoe Cove, Merritt Lane, Moskey Basin, Siskiwit Bay, Three Mile, Todd Harbor, and Tookers Island. Vessels at anchor within Quiet/No Wake Zones may operate on-board generators between 6:00 a.m. and 10:00 p.m., except when anchored within 1/4-mile of a designated park campground.

Quiet/No Wake Zones – These zones promote a quality visitor experience by providing relatively tranquil, natural marine surroundings. Within the zone, vessels must not exceed 5 mph or create a wake. In flat, calm water, this means not making a wake or traveling no faster than 5 mph. In a one foot sea, a boat could travel up to a speed that would create a one foot wake. Quiet/No Wake Zones include specified areas near Todd Harbor, Johns Island, Barnum/Washington Islands, Hay Bay, Wright Island, Malone Bay, Chippewa Harbor, Conglomerate Bay, Moskey Basin, Lorelei Lane, Tobin Harbor, Merritt Lane, Passage Island, Duncan Bay, Five Finger Bay, Lane Cove, Robinson Bay, Pickerel Cove, Belle Harbor, Crystal Cove, and McCargoe Cove. Consult boater’s maps and brochures available at Park Visitor Centers and on-board the *Ranger III* for specific information.

Alcohol Ban – Open containers of alcohol are prohibited in campgrounds, on docks, and onboard docked vessels at both Siskiwit Bay and McCargoe Cove.

Pollution Prevention – Head pump-out service is available at Windigo and Rock Harbor when the concession operation is open. Federal regulations prohibit the discharge of any waste, including gray water, into park waters. Vessels carrying spare fuel in portable containers must use legally approved containers. Fuel may not be stored on docks.

Customs – All vessels arriving from Canada (U.S. or Canadian) must clear U.S. customs at Windigo or Rock Harbor Ranger Stations.

Divers – Please refer to your dive permit regulations concerning compressor use.

Fuel – Gasoline is sold from Mid-June to early September at Windigo; gasoline and diesel fuel are sold from Mid-May to Mid-September at Rock Harbor. Diesel fuel is not available at Windigo. Early and late season service or fuel may be obtained at Windigo and Mott Island if personnel are available.

Greg Blust
Supervisory Park Ranger

How Can You Help?

You're home from your trip to Isle Royale, you're excited, and you want to keep Isle Royale National Park special. What can you do? Every visitor can have a role in fulfilling the park's mission; there are a number of ways you can help. The park works closely with groups who assist each year through financial support and volunteer projects. The Isle Royale Natural History Association publishes and sells educational materials and financially supports research and interpretive efforts. Their members have also completed volunteer work projects on the island. Joining and supporting the Isle Royale Natural History Association directly benefits Isle Royale.



AmeriCorps Crew

The National Park Foundation (NPF) is a nation-wide organization that helps all National Park Service units. Their mission is to strengthen the connection between the American people and their national parks by raising private funds, developing grants, creating partnerships, and increasing public awareness. In the past, they have organized fundraising efforts for construction projects and provided educational interns for Isle Royale.

The new National Parks of Lake Superior Fund is a non-profit fundraising organization for the Lake Superior Parks: Apostle Islands National Lakeshore, Pictured Rocks National Lakeshore, Grand Portage National Monument, and Isle Royale. The mission of the Fund is to support the stewardship of the natural and cultural resources of the four parks and to enrich the experience of those who visit them. The Fund provides financial support for environmental education, historic

building restoration, trail rehabilitation and maintenance, and natural resource management.

If you would like to get physically involved in a work project on the island, you could check into the organized groups who do projects each summer. The Sierra Club, Americorps, Minnesota Conservation Corps, and Isle Royale Natural History Association complete trail, campground and general maintenance projects. Earthwatch volunteers assist the wolf/moose study by collecting field data.

You can take steps to preserve Isle Royale through simple actions. Even though remote, Isle Royale is connected to the larger world in terms of pollution and exotic species. Cleaning fishing gear and watercraft before coming to the island will help prevent exotic species, like aquatic zebra mussels, from becoming established in the park. Simply brushing off your boots before boarding a ferry can

stop the transport of non-native plant seeds. Acting locally to eliminate pollution where you live helps all our national parks.

You can also help by keeping in touch with the park, reviewing and commenting on management plans, and participating in visitor surveys. And you can contact your senators or congressional representative. Let them know that you value Isle Royale and keep them informed about how to keep the park a special place.

We all have a chance to protect and preserve this island park. What will your legacy be?

Liz Valencia
Chief, Interpretation and Cultural Resource Division



AmeriCorps Crew

Spiny Water Flea Alert for Paddlers, Backpackers, and Anglers

Protecting native species is a critical part of fulfilling the National Park Service mission. Today, a major threat to the integrity of park ecosystems is the presence of invasive exotic species, non-native plants and animals introduced by humans to areas where they did not previously exist. The immensity of the problem is staggering - 2.6 million acres of NPS lands are infested by exotic plants, and 234 units have invasive animals in need of management.

Several invasive plant and animal species pose new and serious threats to the Great Lakes and smaller lakes in this region. One of those, the tiny but dangerous spiny water flea, is making its presence felt on Isle Royale. The park's Lake Superior waters contain spiny water flea, but it appears that they haven't yet made

their way into the park's inland lakes. In 2005, Isle Royale staff discovered that spiny water fleas could stick to the surface of a canoe or kayak AFTER it had been pulled out of the water, increasing the chances of transmittal.

This invasive invertebrate has been shown to outcompete native species for food, while apparently causing trouble for fish that try to consume it, due to its long spines. For inland lakes on an island, this kind of invader could devastate the natural aquatic communities, including the park's native mussel colonies and its freshwater sponge colonies; as well as impact inland lake angling by park visitors.

This year you may see several reminders and helpful hints you can follow to aid the park in preventing the spread of this invader into our inland lakes. Isle Royale National Park, Isle Royale Natural History

Association and Isle Royale Institute are currently developing informational handouts and postings for portages as part of our campaign to protect the inland lakes from spiny water flea invasion. The park will be encouraging paddlers, backpackers, and anglers to help limit the spread via the following preventive techniques:

1. Thoroughly dry all gear (including kayaks and canoes), and clothing when moving from Lake Superior waters to the park's inland lakes. Bring drying rags with you, and keep them in a sealable container after use.
2. When camping prior to entering the inland lake system, if possible pour boiling water over smaller items that have been in Lake Superior (sandals, booties, etc.)
3. Change the filter in your water filtration system if you've used your

filter in Lake Superior and plan to use the filter in the inland waters.

4. Change fishing line after fishing in Lake Superior, and prior to fishing in the park's inland waters.

Don't assume you will be able to see these tiny hitchhikers! They are about 1 centimeter (1/3 inch) at their maximum size, and they are nearly transparent.

If during your stay you see spiny water fleas in an inland lake, please report the finding to a visitor center or park ranger.

Check out our brochures, handouts, and posters for additional information. Thanks for helping to keep Isle Royale's inland waters healthy!

Jean Battle
Chief, Natural Resources Division

Fishing at Isle Royale

A Michigan fishing license is required for fishing in Lake Superior, including narrow bays and harbors, and when transporting fish from the island to the mainland. If you are under 17 years of age, you may fish without a license. Licenses are not required to fish on the inland waters of Isle Royale; possession limits are the same as those set by the State of Michigan. Also see additional information on this page regarding

special brook trout regulations. Anglers should refer to the Michigan fishing regulations for possession limits and detailed license requirements for Lake Superior (also see the chart on page 7 for a brief guide to regulations). Only 24-hour licenses are available on the island and only when concession services are open. You may purchase a Michigan fishing license online at www.michigan.gov/dnr.

Fishery Conservation

With its multitude of islands and bays on Lake Superior, as well as several lakes and streams on the interior of the island, Isle Royale provides many opportunities for outstanding recreational fishing for wild, native fish. How can you help to conserve and minimize damage to the Isle Royale fishery?

- Catch only what you plan to keep or eat. Catch and release, while encouraged, can be damaging and very stressful on fish.
- Know the minimum size of fish so that if they are too small they can be quickly released.
- Release larger fish and keep medium size fish to insure future productivity. Larger, more mature fish produce more offspring than smaller fish.
- Instead of killing trophy fish, consider a modern graphite mount produced from a picture of the fish.
- Return fish to the water as soon as possible. While unhooking them, keep fish in the water as much as possible.
- If fishing from shore, try to remove hooks while the fish are in the water; don't drag them up on the bank.
- Try not to handle fish, but if you need to, do so with a wet hand. Release handled fish gently by allowing them to swim from your hands rather than throwing them back into the water.
- Do not squeeze the fish or place fingers in the gills, since a torn gill can cause the fish to bleed to death.
- Remove the hook gently. Pliers work best. Cut the line near the hook if a fish is deeply hooked. A steel hook will decompose in time.
- Use only artificial lures (required in inland waters) as exotic species can accidentally be introduced by using live bait and live bait are often swallowed deeper resulting in more damage to fish.
- Use single, barbless hooks or bend down the barbs on the hooks. Using larger spoons when fishing for larger fish such as Northern Pike will help prevent catching undersize fish.
- If moving from Lake Superior to an inland lake, change to a different spool of line. This will help prevent spread of the spiny water-flea, an exotic aquatic invertebrate that competes with juvenile fish for food. It has been found in Lake Superior waters of the park but is not yet documented in inland waters. Spiny water fleas can adhere to fishing line and be easily spread to other bodies of water.

Disposal of Fish Remains

At Rock Harbor, please use the fish cleaning station. At other locations, the preferred method is to dump remains chopped up into pieces 4" or less in deep (50' or deeper) water. This reduces the unsightly remains and odors around campgrounds and the unnaturally large gathering of gulls at these sites. At inland lakes where water may be much shallower than 50', clean fish away from campsites and place remains on shore at least 100' away from the campground, between the waterline and the vegetation line. Please do not clean fish directly on docks. Do not throw remains in shallow water near shore or throw remains to gulls.

Transporting Fish to the Mainland

You are allowed only one day's catch in your possession. While the license holder remains on the Island, Michigan Department of Natural Resources (DNR) allows those with DNR permits to ship legally-taken fish on the *Ranger III*, *Isle Royale Queen IV*, *Wenonah*, *Voyageur II* and the seaplane. This one-time per year permit covers up to a single day's catch limit. Fish must be claimed when the ferry service arrives at their destination. Permits may be obtained by writing: Department of Natural Resources, 427 U.S. 41 North, Baraga, Michigan 49908-9627 or calling (906) 353-6651.

Fishermen returning on the *Ranger III* must check in their fish with the ship's purser. Fish cannot be transported in coolers on private boats onboard the *Ranger III*.

Fish Consumption Advisory

Contaminants discovered in the Park ecosystem remind us that although Isle Royale is remote, it is part of a global system. Ongoing research in six inland lakes (Sargent, Siskiwit, Eva, Shesheeb, Wagejo, and Angleworm) shows fish with mercury levels exceeding the State of Michigan fish consumption advisories.

For information on fish consumption advisories check with park staff or visit the Michigan Department of Community Health website at: <http://www.michigan.gov/mdch>

Jay Glase, Fishery Biologist, and Larry Kangas, Chief, Law Enforcement Division

Why New Brook Trout Regulations at Isle Royale?

Due to incredible popularity and historic over-harvest, coaster brook trout numbers at Isle Royale have been declining for several years. Recent surveys indicate populations are dangerously low and may be at risk of disappearing unless they have more protection.

- The Tobin Harbor population of adult brook trout may be **less than 150 fish**.
- The Siskiwit Bay population, despite 5 years of regular stocking, is probably even lower than at Tobin Harbor.

Due to these low numbers, NPS and the Michigan DNR are implementing protective regulations at Isle Royale in order to help with the recovery of this once common fish.

Lake Superior Waters (extend 4.5 miles out from the island)

Catch and release only for all brook trout, including all bays and harbors.

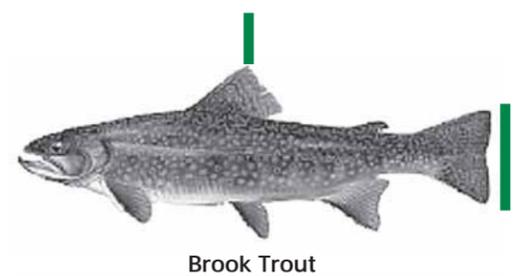
Inland Waters

Catch and release only in all streams and Hidden Lake.

Artificial lures and barbless hooks only in all streams and Hidden Lake.

You can help

by knowing the regulations and how to identify brook trout. The nearly square tail and wormlike pattern on the back and dorsal (top) fin of a brook trout are usually a good way to distinguish it from lake trout and splake. If you're uncertain about the species you catch, return it to the water.



Brook Trout



Splake



Lake Trout

(Images from LandBigFish.com)

Rock Harbor Lodge and Windigo Store

Lodge Rooms

Sixty rooms are available; each accommodates four and offers private bath.

Housekeeping Rooms

Twenty duplex cottages accommodate six and are furnished with utensils, dishware, private bath, double bed and two bunk beds.

Gift Shop and Dockside Store

Gift Shop offers handcrafted gifts, apparel, photo supplies, postcards, souvenirs, daily fishing licenses, and tackle. The store offers groceries, freeze dried foods, fishing tackle, stove fuel, camping, hiking, and boating accessories, showers, laundry facilities, and sundries.

Lodge Dining Room & Greenstone Grill

Hearty meals, including fresh Lake Trout. Visitors welcome for breakfast, lunch, and dinner. Greenstone Grill open daily.

Marina and Water Taxi

Offers 450 feet of dock space in Rock Harbor, accommodating boats up to 65 feet. Electrical, fresh water hook-up, sewage pump-out, gasoline, and diesel fuel, motorboat, canoe, and kayak rental available. Water taxi service drops off or picks-up visitors, canoes, or kayaks at many island docks.



Fishing Charters and Sightseeing

Charters are fully equipped. For details on sightseeing trips refer to page 4.

Windigo Store and Marina

Offers groceries, cold sandwiches, camping supplies, stove fuel, daily fishing licenses and tackle, gifts and photo supplies. The marina offers gasoline, pump-out service, and motorboat, canoe and kayak rental. Shower and laundry facilities available.

The cost for utilities on Isle Royale is much higher than on the mainland. A utility surcharge will be added to the cost of all goods and services.

Contact Information – page 2

Transportation Services Rates are subject to change due to rising fuel costs.

FROM GRAND PORTAGE, MINNESOTA



VOYAGEUR II

Grand Portage to Windigo - 2 hours one-way, Windigo to Rock Harbor - 5 hours one-way, concession operated, 60 ft. vessel

SCHEDULE (Central Daylight Time)

■ Grand Portage to Rock Harbor via Windigo/McCargoe Cove/Belle Isle

5/6 thru 5/20 W & Sat 8:00 a.m.

5/22 thru 9/16 M, W & Sat 8:00 a.m.

9/20 thru 10/21 W & Sat 8:00 a.m.

■ Rock Harbor to Grand Portage via Daisy Farm/Chippewa Harbor/Malone Bay/Windigo

5/7 thru 5/21 Th & Sun. 8:00 a.m.

(9:00 a.m. EDT)

5/23 thru 9/17 Tue, Th & Sun 8:00 a.m.

(9:00 a.m. EDT)

9/21 thru 10/22 Th & Sun 8:00 a.m.

(9:00 a.m. EDT)

9/21 thru 10/22 Th & Sun 8:00 a.m.

(9:00 a.m. EDT)

FROM GRAND PORTAGE, MINNESOTA



WENONAH

3 hours one-way, concession operated, 63 ft. vessel

SCHEDULE (Central Daylight Time)

June 17 thru September 10

■ Grand Portage to

Windigo daily 9:30 a.m.

■ Windigo to

Grand Portage daily 3:00 p.m.

(4:00 p.m. EDT)

FROM COPPER HARBOR, MICHIGAN



ISLE ROYALE QUEEN IV

3 hours one-way, concession operated, 100 ft., 100 passenger vessel

SCHEDULE (Eastern Daylight Time)

■ Copper Harbor 8:00 a.m.

■ Rock Harbor 2:45 p.m.

5/15 thru 6/2 M & F

6/3 thru 6/30 M, T, Th, F, Sat

7/1 thru 7/14 M, T, Th, F, Sat, Sun

7/15 thru 8/20 Every Day

8/21 thru 9/4 M, T, Th, F, Sat, Sun

9/8 thru 9/29 M & F

FROM HOUGHTON, MICHIGAN



RANGER III

6 hours one-way, National Park Service operated, 165 ft., 128 passenger vessel

SCHEDULE (Eastern Daylight Time)

June 2 thru September 13

■ Houghton to Rock Harbor

Tues. & Fri. 9:00 a.m.

■ Rock Harbor to Houghton

Wed. & Sat. 9:00 a.m.

Join the Isle Royale Natural History Association & Support Isle Royale National Park Programs

The Isle Royale Natural History Association, in partnership with the National Park Service, promotes the public's understanding and appreciation of Isle Royale National Park and Keweenaw National Historical Park through education and research.

By publishing and selling products about Isle Royale National Park and Keweenaw National Historical Park, we educate people about these special places and raise funds that are re-invested in the parks to support research and interpretive programs.

Every year the Isle Royale Natural History Association contributes approximately \$25,000 in cash and in-kind aid to Isle Royale National Park.

YOU CAN HELP....

You can support the work of the Isle Royale Natural History Association and our partner parks by becoming a contributing member of our organization. Your tax-deductible contribution will help us share the stories of Isle Royale National Park and Keweenaw National Historical Park with people of all ages, around the world.

Membership levels are:

Life _____	\$1000	(Payable in 5 installments)
Benefactor _____	500	
Patron _____	250	
Sustaining _____	100	
Supporting _____	50	
Household _____	30	
Individual _____	25	

IRNHA member benefits:

- a 10% discount on all purchases from IRNHA outlets and other National Park Visitor Centers throughout the U.S.,
- 3 issues of Wolf's Eye newsletter,
- park newspapers,
- invitations to park programs, trips, and events,
- monthly e-mail park news updates.

Become a member today!

Call us at 800-678-6925,

or join online at www.irnha.org

The Isle Royale Natural History Association:

Sells books and other educational products in visitor centers at Houghton, Rock Harbor & Windigo;



Rock Harbor Visitor Center



Conducts Volunteer Service Projects on Isle Royale;

IRNHA Service Trip participant Maryanne Majerus removing exotic plants



Conducts educational programs and field trips.

Rolf Peterson presenting the latest news on Isle Royale's wolf and moose populations.

Liz Valencia leads a cultural walk



ISLE ROYALE NATURAL HISTORY ASSOCIATION PRODUCTS

BOOKS, MAPS & MORE

Your purchases help support Isle Royale National Park! IRNHA members receive a 10% discount

Trails Illustrated Map \$9.95
Topographic map includes valuable wilderness tips and Leave No Trace guidelines, along with updated trails, trailheads, points of interest, campgrounds, and much more. Printed on waterproof, tear-resistant material with a plastic coating for extreme durability. Measures 4" x 9" folded and 38" x 25" fully opened. Scale = 1:50,000. Updated 2004.

NOAA Lake Charts \$19.25
Official navigation charts for Isle Royale, Lake Superior, Grand Portage, the Great Lakes, Keweenaw Peninsula, and Portage Canal. Soundings in feet. Folded or rolled. Add \$3.00 for mailing tube if rolled.

Isle Royale National Park: Foot Trails and Water Routes \$14.95
The park's authoritative illustrated guidebook. All the information you need to plan everything from a series of day hikes to a two-week trek that circles the park. A must for planning your backpacking or canoeing trip to Isle Royale. 136 pages. Third edition. Author: Jim DuFresne

New !! Ecological Study of Wolves on Isle Royale 2005-2006 \$3.95
The year's report from the winter study on Isle Royale. Includes latest information on the island's wolf and moose populations. *Annual Reports from 1989-2004 also available.*

Author: Rolf Peterson
New !! Wolf Tracks and Moose Scat: A Visit to Isle Royale \$5.95
This children's book introduces early elementary age students to Isle Royale and to the concept of predators and prey. A simple text and beautiful watercolors and color photographs describe the island's weather and geology and its animal and plant inhabitants. Author: Jean Mannesto

Superior Wilderness: Isle Royale National Park \$16.95
A natural history of Isle Royale for the layperson, emphasizing the ecology of the island, the relationship between its plants, animals and physical environment. Color photographs and an extremely readable text. Maps, photos, charts, illustrations. 171 pages. Author: Napier Shelton

Fishes of Isle Royale \$5.95
This complete fishing guide includes information on the five fish habitats on Isle Royale, a full description of all major species with illustrations, keys to fish identification, and an annotated list of fishes. Charts, maps. 58 pages. Authors: K.F. Lagler & C.R. Goldman

Isle Royale: A Photographic History \$29.95
The history of Isle Royale from early exploration in the 1600s to the birth of the national park as told through historical photos and maps. Chapters: Exploration, Copper Mining, Navigation, Commercial Fishing, Recreation, and Creating a National Park. 160 pages. Authors: Tom & Kendra Gale

Place Names of Isle Royale \$9.95
The origins, histories, and stories of over 250 Isle Royale locations. A history of Isle Royale in itself. Illustrated with over 50 photographs, drawings and maps, including a complete fold-out map of Isle Royale. 96 pages. Authors: Parratt and Welker

The Geologic Story of Isle Royale National Park \$10.95
Classic study of Isle Royale's geologic history and landscape, the shifting of rocks and specific minerals which produced one of the most beautiful islands in North America. Maps, photos, and illustrations. 66 pages. Author: N. King Huber

Diaries of an Isle Royale Fisherman \$12.95
Reproductions of the journals and correspondence of Elling Seglem who fished from Isle Royale's Fisherman's Home between 1920 and 1932. These newspaper-format letters were sent home to his family in Chicago. Historic photos and cartoons. 185 pages. Editors: Jill Burkland & Robert Root

Exploring Isle Royale VHS \$17.95 DVD \$21.95
This orientation video produced by the National Park Service shows how to best enjoy the island's many attributes, including its trails, lakes, and campsites. Winner of the 1995 Michigan Outdoor Writers Association Best Outdoor Travel Program. 28 minutes.

Isle Royale Impressions DVD \$16.95
Breathtaking footage of Isle Royale's shoreline, lakes, ridges, and forests, along with close-up shots of island wildlife. Set to classical music. 20 minutes.

Isle Royale National Park Pins & Hiking Stick Medallions \$4.50 \$5.95
Enamel 3/4" pins available in wolf, moose, or loon design. Medallion 1-3/4" available in wolf & loon designs.

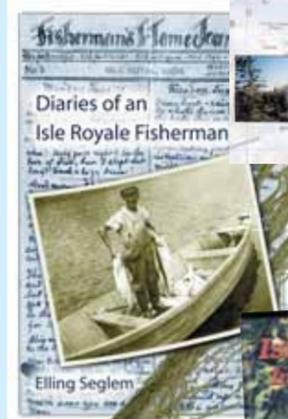
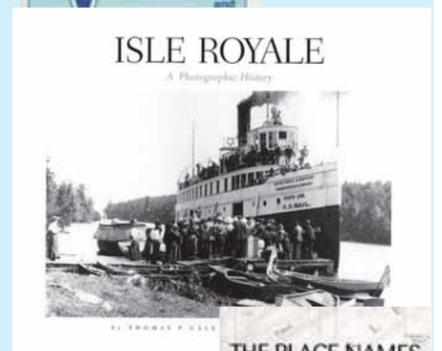
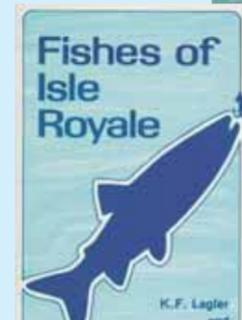
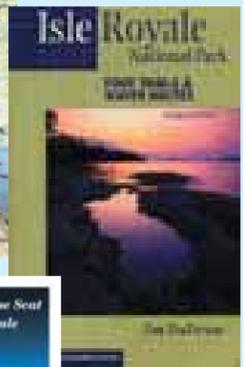
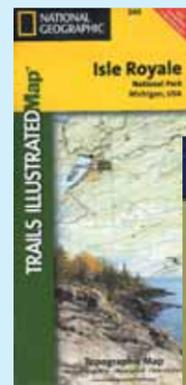
Isle Royale Wolf T-Shirt \$16.95
100% cotton, black with wolf art and "Isle Royale National Park." printed on front or back. Adult S, M, L, XL, XXL

Special Value Packages

Hiking & Canoeing Package \$24.00
Includes the Trails Illustrated map, the book *Isle Royale National Park: Foot Trails and Water Routes*, and the park checklists of birds, mammals, and rocks.

Fishing Package \$24.00
Includes the Isle Royale Navigational Chart, the book *The Fishes of Isle Royale*, and copies of Isle Royale fishing regulations and Aquatic Invasive Species brochure.

Order at www.irnha.org or call toll-free 800-678-6925
Visit our sales outlets at Isle Royale National Park Visitor Centers, on the waterfront in Houghton, Michigan, and on the island at Rock Harbor and Windigo.



Shipping Charges/US Mail:	
Up to \$10.00	\$3.00
\$10.01 - \$30.00	\$5.00
\$30.01 - \$50.00	\$7.00
\$50.01 - \$75.00	\$8.00
Over \$75.00	free
Priority Mail: Add \$4.00	
Additional Charges outside U.S.	