Partners Make the Difference

GETTING TO ISLE ROYALE IS A JOURNEY, ONE WHERE you cannot step out of your car and touch its borders. You have to make a commitment of time and resources to visit the island, and once there you cannot easily change your mind and return home. Perhaps this is one of the reasons why fewer than 20,000 visitors come to the Island each year. However, once you arrive, you can relish exploring its rugged trails, scenic vistas, unique challenges of terrain, and the beauty of the native plants and animals. Perhaps this is why repeat visitors make up 30% of Isle Royale use every year. Isle Royale is one of 44 national parks with congressionally designated Wilderness. With 99% of the Island designated Wilderness, it is probably one of the most intact ecosystems due to its isolation and limited human impacts.

The largest impact to the island ecosystem is the moose; a single one must eat 40 or more pounds of plant matter a day to survive. They are the current drivers of the type and abundance of plant and tree species on the island. Their balance with the wolf population is a seesaw of gains and losses mixed with the effects of harsh weather and food availability. There are many things scientists have learned by studying Isle Royale and there is much left to be discovered. In the future, the Park would like to expand the type of research that would help managers of boreal forests better understand and support these systems around the world. The ability of the park to do that will be dependent on developing partnerships.

This past year the Park joined with the National Park Conservation Association and interns in the Master’s programs at Harvard and Northwestern Universities’ Schools of Business to develop a business plan. The plan develops a historical look at funding and ability to accomplish the NPS mission. It captures the current “state of the Park” and develops and discusses strategies to move the park forward. Overall, the study shows the park was under-funded 32%, or $1,846,596. The program with one of the largest gaps in funding was the Natural Resource program (by 58%), which supports the wolf/moose studies and critical inventories and monitoring. Other under-funded program areas include Transportation and Fleet (33%), Building Maintenance (65%), and Cultural Resources (80%). If you are interested in a copy of the business plan, please contact the Park at 906-482-0984.

Volunteers and partnerships are what have made the difference between quality programs and shoestring programs by contributing the equivalent of over $200,000 worth of work every year (7% of the parks budget). In addition, donations and direct contributions have helped the park in areas as diverse as employee housing to supporting research studies. This is why partnerships will be a critical part of supporting Isle Royale in the future as our Nation faces complex and costly challenges of terrorism and domestic issues.

Partnerships will be essential in reducing the threat of exotic species invasion on the Island. Multi-agency public and private support are needed to stem the tide of introduction and to help eradicate invaders as control methods become known. Partnerships to help preserve and protect critical cultural resources will be essential as the Park develops a management plan for the cultural sites on the island, including over 150 structures that are eligible for the National Register. These unmet needs are significant, but people working together can address them.

In the meantime, the coastlines and forests of Isle Royale will receive primary protection from the Park base budget. We appreciate the support from all our visitors who take the time to make the journey to Isle Royale. Your stewardship for the Island is evidenced by your adherence to the Leave No Trace principles and the respect you show for the wildlife and landscape of the Island. Happy trails, no matter where they lead you.

Phyllis A. Green
Superintendent, Isle Royale National Park
Planning for Better Stewardship

Park personnel are currently undertaking three planning efforts called for by the recently completed General Management Plan (GMP), which recognized water resources, fish populations, and wilderness character as a portion of the park’s national significance and purpose. A Water Resources Management Plan, a Fish Management Plan, and a Wilderness and Backcountry Management Plan will guide protection of these resources into the future. Whether you visit the park frequently or never set foot on the island, management is interested in hearing what you believe are pertinent issues related to the protection and management of Isle Royale National Park.

In addition to Lake Superior, there are hundreds of inland lakes, ponds, streams, and wetlands within park boundaries that support rare and protected species of wildlife and vegetation. Furthermore, most park visitors engage in some sort of water-based recreation during their visit to the island. Water resource professionals from the National Park Service, along with other agencies, universities and others are coordinating development of the Water Resources Management Plan. Goals include: 1) summarizing existing natural, ecological and/or cultural resources, state and federal programs and legislation associated with water resources, 2) identifying water resources management needs and issues that impact water resources, and 3) developing strategies to address those issues.

A group of fishery professionals, including state, federal and tribal government personnel, will continue to meet to develop and write a Fish Management Plan to protect fishery resources. Objectives for the plan include: 1) establishing a formal communication process to interact with those agencies and governments that have management and monitoring responsibilities; 2) identifying issues associated with long-term preservation of fish resources and developing strategies to address those issues; 3) examining the adequacy of existing fishing regulations for inland lake waters; 4) focusing on management of fish resources on native species; and 5) identifying information needed to monitor the health of fish populations. The plan will not propose changes to fishing regulations for Lake Superior waters.

The Wilderness and Backcountry Management Plan will include goals for: 1) improving the quality of recreational experiences; 2) protecting natural resources, cultural resources, and wilderness character and values; and 3) specifying appropriate management actions for achieving these goals. Some issues to be addressed include improved recreation management, appropriate management actions and activities within designated Wilderness, and more specifically, options for campfire policies.

Planning efforts depend on a dedicated partnership between the public, park managers, private organizations, and other interested groups. For more information visit the park website, contact the Wilderness Coordinator at 906-487-9080 x225, or e-mail isro_wbmp@nps.gov.

Ann Mayo Kiely, Wilderness Coordinator, Isle Royale National Park

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

Edited by Greg Blust, Jill Burkland, and Smitty Parratt.
Photographs from the Isle Royale National Park collection.
Isle Royale Natural History Association funded this publication.
—Printed on recycled paper—

Did You Know?

◆ Public Law 88-577, known as the Wilderness Act, was enacted in 1964.
◆ Isle Royale’s Wilderness was designated in 1976.
◆ There are 640 designated wilderness areas in the United States.
◆ There are 388 units of the National Park Service (NPS).
◆ Based on acreage, the NPS manages 42% of all designated wilderness in the United States, spread over 44 units of the NPS.
◆ 39 additional units of the NPS contain areas of proposed/recommended wilderness and manage those parcels as wilderness.
◆ The largest designated wilderness in the United States is Wrangell-St. Elias Wilderness Area in Alaska, with 9,676,994 acres.
◆ Based on wilderness land area, Isle Royale’s wilderness is the most densely used of all wilderness areas in national parks.
◆ Michigan contains 14 different wilderness areas, of which Isle Royale is the largest.

Smitty Parratt
Branch Chief of Interpretation

Ann Mayo Kiely, Wilderness Coordinator, Isle Royale National Park

How do you partner with and benefit Isle Royale?
As the Wilderness Coordinator, my goal is to bring together the public, park managers, researchers, and other interested parties to complete the best Wilderness and Backcountry Management Plan possible for Isle Royale. Having worked here previously as a Seasonal Interpreter and Wilderness Ranger, I feel a close connection to the island and its visitors, and a deep commitment to caring for this special place.

How does your partnershipemployment with Isle Royale National Park benefit you?
From my partnership with Isle Royale I have gained a greater understanding of the role of wild lands in peoples’ lives, and the role of people within wild lands. Working to make these complex relationships mutually beneficial is a life-long interest.
The Isle Royale Institute invites you to join us on one or more of the educational programs that will be offered this season at Isle Royale National Park. The Institute will be offering a number of different activities for all ages, skill levels, and interests. You may join us to improve your outdoor skills in areas such as Wilderness First Aid or become certified in Leave No Trace. You may choose to join an Institute leader on a photography hike, canoe with a naturalist, or attend the Writers Conference to improve your skills in those areas.

Activities scheduled for the summer of 2003 include Ranger III and Rock Harbor presentations on regional research, half day hikes on the Island with naturalists, and multi-day excursions into the Park. Institute staff will be leading outings with staff from Elderhostel, Michigan Technological University, University of Minnesota Duluth, Sierra Club, Audubon, International Wolf Center and several other organizations.

The Isle Royale Institute is a partnership between the National Park Service, Michigan Technological University, and the University of Minnesota Duluth. Our mission is to promote education and research at Isle Royale National Park and on the waters of Lake Superior. This new Institute has been able to provide opportunities for our Park’s visitors to further their understanding of the important research that is being undertaken in this region.

Institute staff provide opportunities for people to enjoy their wild lands using outdoor skills such as Leave No Trace so that these wonderful areas are preserved for all. To find out more about the Isle Royale Institute you may visit our Website at http://www.forestry.mtu.edu/iri or pick up one of our brochures that describe our summer courses at Park Visitor Centers. The Institute staff invites you to join us as we explore our wilderness National Park.

Mark Gleason
Director, Isle Royale Institute

The Wolves and Moose of Isle Royale

Now in its 45th year, the annual wolf/moose predator/prey research and monitoring program revealed a slight drop in wolf numbers in 2002. For the second consecutive year the wolf population declined due to high mortality, linked to the continued shortage of old moose. At the end of winter study operations in March 2003, three wolf packs roamed the island. The East Pack contained six wolves, the Middle Pack had four, Chippewa Harbor had five individuals, and two loners rounded off the population at seventeen. We also know that both the Chippewa Harbor Pack and Middle Pack produced pups in 2002. Inter-pack rivalry in late Fall 2001 resulted in the death of two East Pack members, including the alpha male. Thus, we are fairly certain the East Pack did not reproduce in 2002.

Isle Royale’s moose population was estimated to be 1,100 animals at the end of March 2002, up from an estimated 900 animals the previous year. With mild weather and low snow depth at winter study’s onset, moose had not yet migrated into coniferous lowlands in search of balsam fir, their winter staple, but instead remained in the deciduous highlands to feed until late February when the snow crusted over. Lack of movement to their usual winter haunts increased detection of moose during survey over flights to about twice the normal level. Low snow depth also meant that wolves had a difficult time preying on calves, because a cow moose, not limited by deep snow, could better defend herself and calf. Six of 19 wolf kills in winter 2002 were calves, about half the number observed in 2001, when snow depth was close to average. The continual slow increase of the moose population is expected, with annual variation tied to weather patterns.

The annual “Winter Study” program contributes significantly to the research and survey work completed on the wolf and moose populations of Isle Royale. Results of the 2003 Winter Study effort can be purchased at the Park Visitor Centers or ordered from the back page of this newspaper. As Winter Study 2003 neared its end, researcher Dr. Rolf Peterson stated, “Preliminary information indicates the wolf population increased slightly in 2003 and the moose population declined because of tick-related mortality in the spring of 2002.”

Mark C. Romanski
Lead Biological Science Technician

Michigan Technological University

How do you partner with and benefit Isle Royale?

As volunteers since 1985, we provide photographs for NPS programs and displays, and present programs at Rock Harbor; this partnership enables us to give something back to an ecosystem that has given us so much. Having written an ecosystem-perspective book on Lake Superior, and specializing in the larger Great Lakes ecosystem, we bring a unique knowledge and experience to the Isle Royale Institute courses.

Rolf Peterson, Professor and Research Scientist, Michigan Technological University

Dr. Rolf Peterson, Professor and Research Scientist, Michigan Technological University

How do you partner with and benefit Isle Royale? I hope that the wolf-moose predator-prey study has helped improve wolf-human relations. In 50 years, people have learned not to fear wolves. However, it is vital that we retain our respect for wolves, giving them space so that they can keep their space from us. We welcome visitors at our research site, the Bangsund Fishery, across from Daisy Farm Campground, 1/3 mile southwest of Edisen Fishery.

How does the partnership with Isle Royale National Park benefit your agency and/or yourself? Sharing our knowledge and love of the island with enthusiastic course participants has been a moving and enriching experience.

John and Ann Mahan
authors/graphographers, Sweetwater Visions; Isle Royale Institute instructors

Wendy Weis Smith, Education Coordinator, Great Lakes Research and Education Center, National Park Service

How do you partner with and benefit Isle Royale?

The Great Lakes Research and Education Center finds researchers to study the natural and cultural resources on Isle Royale and 10 other national park properties. My role, as Education Coordinator, is to help the parks interpretive staffs share new research findings with the public. Isle Royale belongs to the American people. The more they understand about this complex and beautiful wilderness, the better equipped they will be to appreciate and care for it.

How does the partnership with Isle Royale National Park benefit your agency and/or yourself? I really love Isle Royale, and it gives me a great feeling to do something to benefit this incredible resource. Also, knowledge gained from research on Isle Royale could be useful to scientists and resource managers in other parks across the country.
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!

ROCK HARBOUR AREA

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<tr>
<th>ROCK HARBOUR AREA</th>
<th>SUNDAY</th>
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<tbody>
<tr>
<td>Rock Harbor Visitor Center</td>
<td>Information, books, maps, &amp; other educational sales materials, camping permits, user fees.</td>
<td>Daily 8:00 a.m. to 8:00 p.m.</td>
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<tr>
<td>Evening Program</td>
<td>Learn about Isle Royale's natural and cultural history.</td>
<td>Will be offered most nights 7:30 p.m. to 8:30 p.m.; check at visitor center for availability and location</td>
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<tr>
<td>Nature Walk</td>
<td>Take a leisurely stroll with a ranger at Rock Harbor to learn about Isle Royale's natural or cultural history.</td>
<td>May be offered on days when the Isle Royale Queen III comes to Rock Harbor; check local bulletin boards.</td>
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MV SANDY TOURS FROM ROCK HARBOUR

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<tr>
<td>Passage Island ($)**</td>
<td>An 8-mile boat tour on the MV Sandy to the island across one of Isle Royale's popular shipping lanes followed by a guided 2-mile round trip hike to the Passage Island Lighthouse. You'll see the rare devils club, an isolated glacial relic.</td>
<td>9:00 a.m. to 12:30 p.m.</td>
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<td>9:00 a.m. to 12:30 p.m.</td>
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<tr>
<td>North Side Cruise/Minong Mine ($)**</td>
<td>Cruise two hours each way along Isle Royale's north shore bays. Pass Blake Point and Ampitodal Island, with a possible stop at Bella Isle. A guide may be available to lead a 3-mile guided hike from McCarone Cove to the historic Minong Mine. The hike includes difficult walking over steep piles of loose rock on an unmaintained trail. A site trip up the ridge to Pine Mountain, with excellent views of the Canada shoreline, may be included. Bring lunch and beverages.</td>
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<tr>
<td>Edisen Fishery and Rock Harbor ($)</td>
<td>Visit a historic commercial fishery with the resident fishery demonstration and take a quarter-mile walk to the oldest lighthouse (1855) on Isle Royale.</td>
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DAISY FARM

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<tr>
<td>Evening Program (June 14 – August 13)</td>
<td>Check bulletin board for meeting place. Learn about Isle Royale’s natural and cultural history at the site of a historic settlement.</td>
<td>7:30 p.m. to 8:30 p.m.</td>
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WINDIGO

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<tr>
<td>Windigo Visitor Center</td>
<td>Information, books, maps, and other educational sales materials, camping permits, user fee payments.</td>
<td>Daily 8:00 a.m. to 6:00 p.m.</td>
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<tr>
<td>Evening Program</td>
<td>Learn about Isle Royale’s natural and cultural history.</td>
<td>Nightly 7:30 p.m. to 8:30 p.m.; check at visitor center for meeting place.</td>
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<td>Nature Walk</td>
<td>Join a ranger for a one-mile stroll through swamp, forest, and past a moose enclosure.</td>
<td>Daily 2:30 p.m. to 4:00 p.m.; meet at visitor center.</td>
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<td>Windigo Whispers</td>
<td>Join a ranger to explore special topics relating to Windigo’s natural or cultural history.</td>
<td>Daily 1:30 p.m. to 2:00 p.m.; meet at visitor center.</td>
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HOUGHTON

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<tr>
<td>Houghton Visitor Center</td>
<td>Information, books, maps, and other educational sales materials, Ranger III group camping reservations, trip planning, boater camping permits, and user fee payments.</td>
<td>Open year-round 8:00 a.m. to 4:30 p.m.; Monday through Friday 6/6 through 8/16 open 8:00 a.m. to 6:00 p.m.; Monday through Saturday 8/18 through 9/6 open 8:00 a.m. to 4:30 p.m.</td>
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RANGER III

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<tr>
<td>Maritime Program ($)</td>
<td>Isle Royale Institute and park staff present educational and interpretive programs about Isle Royale and Lake Superior onboard the Ranger III, weather permitting. Park staff can assist you in trip planning, answer questions and issue backcountry camping permits.</td>
<td>9:00 a.m. to 3:00 p.m. 6/3 thru 9/9</td>
<td>9:00 a.m. to 3:00 p.m. 6/4 through 9/10</td>
<td>9:00 a.m. to 3:00 p.m. 5/30 thru 9/12</td>
<td>9:00 a.m. to 3:00 p.m. 5/31 through 9/13</td>
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JUNIOR RANGER PROGRAM

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<tr>
<td>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.</td>
<td>Available daily Rock Harbor and Windigo. Available Tuesdays, Wednesdays, Fridays, and Saturdays aboard the Ranger III vessel.</td>
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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-served 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 an Incidental Business Permit (IBP) to conduct trips in the park. There is a fee for this permit. IBP applications are only accepted between January 1 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 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. Animal’s, particularly fox and otter, when habituated to human food, may eventually overcome their natural wariness of humans and may be destroyed.

Dehydration
It starts at home. Through careful meal planning and re-packing of food items, you can reduce food and trash left behind. Please pack out everything you take in. Leftover food, food scraps, orange peels, nuts, shells, apple cores, twist ties, candy wrappers, fishing lines, 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 outher. Please help keep the backcountry clean by packing out what you packed in.

Human Waste
Proper disposal of human waste helps prevent pollution of water sources, minimizes impacts to other visitors and resources currently taken. Organizations may not have more than twenty people camping on the island at any one time.

Precautions should be taken to prevent filters from becoming clogged. Filter water from a pot and don’t drink water directly from a lake or creek. Allow the sediment in the pot to settle and filter only from the cleaner water on top.

Do not feed, touch, tease, or intentionally disturb wildlife, their homes or activities. Animal’s, particularly fox and otter, when habituated to human food, may eventually overcome their natural wariness of humans and may be destroyed.
Distance•Elevation Change•General Comment

Malone Bay - Siskiwit Lake – .3 miles, 40’ Gradual Slope

Siskiwit Lake - Intermediate Lake – .4 miles, 40’ Gradual

Intermediate Lake - Lake Richie – .6 miles, 120’ Hilly and wooded

Wood Lake - Lake Whittlesey – .6 miles, 80’ Rolling

Lake Whittlesey - Chippewa Harbor – .6 miles, 140’ Steep grades and rocky

Chippewa Harbor - Lake Richie – 1.2 miles, 160’ Hilly

Moskey Basin - Lake Richie – 1.2 miles, 160’ Hilly

Lake Richie - Lake LeSage – .6 miles, 100’ Steep grades, wet

Lake LeSage - Lake Livermore – .4 miles, 80’ Steep grades, wet

Lake Livermore - Chickenbone Lake – 2 miles, 40’ Steep but short

Chickenbone Lake - McCargoe Cove – 7 miles, 80’ Hilly

Pickerel Cove – 1 mile, 10’ Short and sweet

Lake Cove - Stockly Bay – 1 mile, 8’ Short and sweet

Five Finger Bay - Duncan Bay – 2 miles, 8’ Short and sweet

Duncan Bay - Tobin Harbor – 8 miles, 175’ Extremely steep

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.

**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

**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

**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

**On-board Generator Use:**
- Permitted*

*see Isle Royale Boating Guide for details

**Calculate your draft and refer to the current depth chart to determine if you can safely launch and access your campsite without hitting submerged rocks.**

**CAUTION:** Be aware of shallow areas. Do not approach within 100 feet of any reef, rock outcrop, or known shipwreck.

**Do not use this map for navigation. See Boating on Page 8.**
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 boats on Lake Superior have radios and can contact park rangers in an emergency.

带来的第一包药，足够的任何需要的药物，以及衣服适当时年。

- 带上一个良好的急救包，足够的任何需要的药物，以及适合当季的衣服。

- 将或过滤所有水面的水。喝足够的水。当脱水时，你可能更快的晕倒，不应考虑，而且更容易摔倒。

- 天气和湖水的条件会迅速恶化并出乎意料。体温过低可以在任何一年的任何时候发生，尤其是在靠近莱克苏必利尔湖的地方，因为水温在一年四季都很低。雾和波浪可以迅速创造对任何船只，尤其是对皮划艇者非常危险的条件。

- 很多人低估了徒步旅行的时间，高估了他们的能力。计划更短，更现实的旅行日；不要让你的荒野之旅变成强迫性行军。

### MEDICAL TIPS

- 运动在湖和礁石上可以迅速恶化并出乎意料。体温过低可以在任何一年的任何时候发生，尤其是在靠近莱克苏必利尔湖的地方，因为水温在一年四季都很低。雾和波浪可以迅速创造对任何船只，尤其是对皮划艇者非常危险的条件。

- 很多人低估了徒步旅行的时间，高估了他们的能力。计划更短，更现实的旅行日；不要让你的荒野之旅变成强迫性行军。

### FISHING REGULATIONS

<table>
<thead>
<tr>
<th>Species</th>
<th>Seasons</th>
<th>Minimum Size</th>
<th>Daily Possession Limit</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Trout, Rainbow</td>
<td>April 16 to October 31</td>
<td>10&quot;</td>
<td>5 in any combination,</td>
<td>No take is recommended</td>
</tr>
<tr>
<td>Trout and Salmon</td>
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<td></td>
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</tr>
<tr>
<td>Lake Superior</td>
<td></td>
<td></td>
<td>50 species</td>
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</tr>
<tr>
<td>Coaster Brook Trout</td>
<td>May 1 to Labor Day</td>
<td>18&quot;</td>
<td>1</td>
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<tr>
<td>Lake Superior</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Brook Trout Streams</td>
<td>Last Saturday in April 15</td>
<td>7&quot;</td>
<td>2, with no more than</td>
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<td></td>
<td></td>
<td></td>
<td>one over 12&quot;</td>
<td>only on interior</td>
</tr>
<tr>
<td>Rainbow Trout Streams</td>
<td></td>
<td>7&quot;</td>
<td>5, with no more than</td>
<td>Artificial lures</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 fish over 15&quot;</td>
<td>only on interior</td>
</tr>
<tr>
<td>Yellow Perch</td>
<td>April 16 to October 31</td>
<td>No minimum</td>
<td>50</td>
<td>Recommend daily limit of 10</td>
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<tr>
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<tr>
<td>Inland Lakes</td>
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<td></td>
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</tr>
<tr>
<td>Northern Pike</td>
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<td>24&quot;</td>
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<td>50 Northern Pike</td>
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<td>Walleye</td>
<td>May 15 to October 31</td>
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</tr>
<tr>
<td>Inland Lakes</td>
<td></td>
<td></td>
<td>lakes and streams**</td>
<td></td>
</tr>
</tbody>
</table>

*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.
** 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.
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 mosses, lichens, 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 harsh 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 yellowjackets. Bring an epinephrine kit if you or a member of your party is allergic to bee stings. For other stingers, over-the-counter antihistamines may help counter minor swelling and itching. If your party is allergic to bee stings. For other stingers, over-the-counter antihistamines may help counter minor swelling and itching. For other stingers, 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. Twirling back-packing 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. The fire should be kept small, massive fires only waste wood. Once finished, make sure the flames and coals are dead out and cold to the touch. Double-check that it is out 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 shore 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 4” x 4” 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 and motorboat rentals are available at Windigo and Rock Harbor. For more information contact the Rock Harbor Lodge. (refer to page 10).

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
The main dock at Windigo will be repaired from late May through late July 2003. During this period, its availability will be limited; boats will be directed to the nearby gas dock. Rafting off or anchoring out may be required.

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-dos, water 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 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, McCargo Cove, Merritt Lane, Moskey Basin, Siskiyou, Three Mile, Todd Harbor, and Tsokis 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 McCargo Cove. Consult boat launch 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 on-board docked vessels at both Siskiwit Bay and McCargo 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
Houghton District Interpreter
How do you partner with and benefit Isle Royale?
Although I am working for all of the parks within the Great Lakes Network, I will spend much of my time initially working on the Fishery Management Plan for Isle Royale. I will also be involved in determining short and long-term fisheries monitoring needs, and developing study proposals for Isle Royale.

How does your partnership/employment with Isle Royale National Park benefit you?
This is a great opportunity for me to once again work in fisheries in the Lake Superior watershed. The combination of the near shore fishery in Lake Superior and the fisheries of lakes and streams on the island is possibly one of the most diverse experiences a fish biologist could hope for in this area.

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, Wagojo, 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.

Phyllis Fredendall, Fiber Design faculty at Finlandia University, International School of Art and Design; 2002 Artist in Residence, Isle Royale National Park

How do you partner with and benefit Isle Royale?
The day of my first presentation in Rock Harbor happened to be the day neither the Ranger III nor the Queen sailed due to 70 knot winds and waves of over four meters. Thus my audience in the auditorium was large and eager for a diversion. I had planned a “hands-on” fiber experience and soon there were scores of busy hands working around my “catch and release” stones with yarn and string. The stones enjoyed their trip to Rock Harbor and all the attention, then returned to Saville Point Cove with gratitude. As did I.

How does the partnership with Isle Royale National Park benefit your agency and yourself?
Two days into my residency I became aware of a continuous, harmonic hum. Those two tones were with me as I paddled the outer islands, swam each evening, or cooked my oatmeal. I came to know them as “the ringing of the spheres;” water, rock and sky all resonating in perfect harmony. Immerced in those elements and joined in harmony, I found a long lost balance.

2003 – Your Guide To Isle Royale National Park 9
Volunteers Provide Critical Support to Isle Royale National Park

Each year, volunteers contribute thousands of hours of service at Isle Royale. The park has a long history of a volunteer driven mission, and the contributions of our volunteers are immeasurable. The Great Lakes National Park is in need of funding, and the volunteers are the backbone of the park's success. In addition to providing direct services to visitors, volunteers also help staff visitor centers, meeting the ferry and providing vital visitor services.

A Sierra Club group of volunteers works on trail projects each August. During a

Rock Harbor Lodge & Windigo Store

Rock Harbor Lodge offers the only lodging accommodations at Isle Royale National Park. Located along the shore of Lake Superior, the Lodge offers rooms with private baths and housekeeping cottages. We invite you to use Rock Harbor Lodge and its American Plan lodging as a base to explore this unique National Park.

The lodge has four buildings composed of 60 American Plan rooms located along the shoreline of Rock Harbor at the northeast end of Isle Royale. The lodge is open June 10 through September 5. Each room accommodates four and offers a private bathroom and picture windows overlooking the harbor and surrounding islands.

Housekeeping Cottages

Forty two duplex housekeeping cottages are furnished with utensils, dishware, private baths and housekeeping cottages. We welcome groups of up to twelve people per visitation (up to six people per visitation) share the common sense of worth and satisfaction in giving something back to our Nation. The partnering with the Park has extended to undergoing specific training for competence as a boat operator, scaffolding erectors, safety coordinator and outdoor first-aid provider.

How does your partnership with Isle Royale National Park benefit you?

I trained Park staff and provide over-the-phone consultation to the island during medical emergencies. Our medical system has benefited many staff and visitors at Isle Royale by being able to provide basic care in such an isolated place. Beginning in 1973 and continuing today, the phone rings often in the summertime when things are busy. We have improved the outcome of many mishaps. When I visit the island in my personal boat, I provide examination and treatment out of the Spruces Cabin at Rock Harbor.

How does the partnership with Isle Royale National Park benefit you?

It gives me the chance to be in the most beautiful place on earth. I’ve become so used to Isle Royale being my summer home, it’s hard to imagine not being there.

Dr. Carol Hicks, Northern Michigan University Professor, Volunteer for Isle Royale National Park

How do you partner with and benefit Isle Royale National Park?

How do you partner with and benefit Isle Royale National Park?

Dr. David Gilbert, Retired surgeon, Volunteer Sponsoring Physician for Isle Royale National Park

How does your partnership with Isle Royale National Park benefit you?

I feel that everyone should give something back to their community, and one way to do this is by volunteering for the park, state, and region, in various medical capacities. In addition, I use to live backpacking on Isle Royale, and now I thoroughly enjoy boating there. Isle Royale means a lot to me; it is why I took up practice in the Copper Country.

How does the partnership with Isle Royale National Park benefit you?

Dr. Bob Janke, Volunteer Ecologist, Isle Royale National Park and retired professor, Michigan Technological University

How do you partner with and benefit Isle Royale National Park?

I help with seasonal training, teaching the new people the ecology of the island, and other island topics, like history. I also complete vegetation monitoring and rare plant surveys for park projects related to the ecology of Isle Royale’s vegetation. I have spent 44 of the last 48 summers on Isle Royale, first as a Park Ranger, then a Park Naturalist, and now a Volunteer Ecologist.

How does the partnership with Isle Royale National Park benefit you?

It is always ready to help either on the island in my personal boat, I provide examination and treatment out of the Spruces Cabin at Rock Harbor.

Dr. David Gilbert, Retired surgeon, Volunteer Sponsoring Physician for Isle Royale National Park

How do you partner with and benefit Isle Royale National Park?

How do you partner with and benefit Isle Royale National Park?

Kim Alexander, Manager, Rock Harbor Lodge

How do you partner with and benefit Isle Royale National Park?

For our company the partnership we enjoy with Isle Royale National Park means we have fulfilled our contractual obligations and done our job by providing outstanding service to the park visitor. For me the benefit comes from the satisfaction gained by joining with others to meet the challenge of putting together a successful season each year. It has been a wonderful journey for so far but the best is yet to come!
VOYAGEUR II
Grand Portage to Windigo – 2 hours one-way, Windigo to Rock Harbor – 5 hours one-way, one-way excursion, 60% off, April 16 – September 13, SCHEDULE (Central Daylight Time)
- Grand Portage to Windigo – Daily 8:00 a.m.
- Windigo to Grand Portage – Upon request
- Rock Harbor to Grand Portage – Upon request

WENONAH
3 hours one-way, concession operated, 62% off, May 15 – September 13, SCHEDULE (Central Daylight Time)
- Grand Portage to Windigo – Daily 8:00 a.m.
- Windigo to Grand Portage – Upon request
- Rock Harbor to Grand Portage – Daily 8:00 a.m.

ISLE ROYALE QUEEN III
4 1/2 hours one-way, concession operated, 50% off, October 1 – April 15, SCHEDULE (Eastern Daylight Time)
- Copper Harbor – 8:00 a.m.
- Copper Harbor to Windigo 8:15 a.m.
- Windigo to Siskiwit Harbor 9:00 a.m.
- Siskiwit Harbor to Silver Falls 10:00 a.m.
- Windigo to McCargoe Cove 1:15 p.m.
- McCargoe Cove to Chippewa Harbor 2:30 p.m.
- Chippewa Harbor to Windigo 4:00 p.m.
- Windigo to Rock Harbor 5:30 p.m.
- Rock Harbor to Grand Portage 6:30 a.m.

FARES
- ONE-WAY
- Grand Portage to Windigo — $65.00
- Grand Portage to McCargo Cove — $44.00
- Grand Portage to Copper Harbor — $50.00
- Windigo to Rock Harbor — $50.00
- McCargo Cove to Rock Harbor — $50.00
- Copper Harbor to Rock Harbor — $50.00

- GROUP RATES ONE-WAY
- Adults (3 and over) — $43.00
- Children (1 thru 11 years) — $21.00
- Children (0 thru 2 years) — FREE
- Infant (under 1 year) — FREE

- SMALL TWIN KAYAKS — $15.00
- REGULAR CANOES/SMALL KAYAKS — $28.00
- LARGE TANDEM/KAYAKS (under 6 hp) — $25.00
- MOTORBOATS — $45.00
- OUTBOARD MOTORS (under 6 hp) — $15.00
- OUTBOARD MOTORS (over 6 hp) — $28.00
- OUTBOARD MOTORS (over 6 hp) — $35.00
- 100 lbs. gear per person — $10.00
- 11-150 lbs. gear per person — $20.00
- 150 lbs. gear per person — $30.00

- WATER TAXI
- Windigo to Rock Harbor — $8.00
- Rock Harbor to McCargo Cove — $20.00

- RESERVATIONS
- A full fare deposit is required for each reservation. All visas, it was great to be here, and to see the beauty of Isle Royale.

- TRANSPORTATION SERVICES
- From Grand Portage, Minnesota
- Transportation Line, Inc.
- 1507 N. First Street, Superior, WI 54880
- (715) 392-5586
- Fax: (715) 392-5586
- Email: Steamboat@isleroyale.com
- Website: www.GRAND-ISE-ROYALE.COM

- FROM COPPER HARBOR, MICHIGAN
- Transportation Line, Inc.
- 1507 N. First Street, Superior, WI 54880
- (715) 392-3100
- Fax: (715) 392-3100
- Email: Steamboat@isleroyale.com
- Website: www.GRAND-ISE-ROYALE.COM

- FROM HOUGHTON, MICHIGAN
- Transportation Line, Inc.
- 1507 N. First Street, Superior, WI 54880
- (715) 392-3100
- Fax: (715) 392-3100
- Email: Steamboat@isleroyale.com
- Website: www.GRAND-ISE-ROYALE.COM

- STUART SIVERTSON
- President
- Grand Portage – Isle Royale Transportation Line, Inc.

We have enjoyed a long and fruitful partnership with Isle Royale National Park and its personnel that began with our passenger service to the island community in the year 1947. In the early years, our service consisted of servicing and supplying many of the commercial fishing families who operated out of a number of harbor locations round the island. With the decline of fishing following the sea lamprey invasion of Lake Superior, our service became increasingly devoted to accommodating visitors, sightseers, and researchers to this unique archipelago. Throughout this long history, we have benefited greatly from the wholehearted and enthusiastic help of National Park Service personnel at all levels. We continue to be very grateful to so many of them for their countyside cooperation and assistance. We look forward to continuing in this partnership of public service and shared affection for the wonderful island.

2003 – Your Guide To Isle Royale National Park 11
How do you partner with and benefit Isle Royale?

The Isle Royale Natural History Association (IRNHA) works in partnership with the National Park Service to promote the public’s understanding, appreciation and enjoyment of both Isle Royale National Park and Keweenaw National Historical Park. To accomplish this mission, IRNHA publishes books, posters, trail guides and maps and contributes to many related projects — including this newspaper — that enhance the Isle Royale experience for all park visitors.

How does the partnership with Isle Royale benefit your agency or yourself?

My involvement with IRNHA has greatly increased my understanding of the park’s natural and cultural, as well as human, resources. The island is blessed to have visitors who have such a deep appreciation for its history and unique value within the national park system.

**ISLE ROYALE NATURAL HISTORY ASSOCIATION**

The Isle Royale Natural History Association, in partnership with the National Park Service, promotes understanding, appreciation, and enjoyment of Isle Royale National Park and Keweenaw National Historical Park. By educating the public about these parks, we help to protect and preserve them for future generations.

This year the Isle Royale Natural History Association will contribute over $17,000 to Isle Royale National Park and Keweenaw National Historical Park to support research and interpretive projects.

**YOU CAN HELP…**

You can support the work of 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:**

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<tr>
<td>Life</td>
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<td>Houseworth</td>
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<tr>
<td>Individual</td>
<td>$20</td>
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IRNHA members receive:

- 10% discount on all purchases from IRNHA outlets and other public land visitor centers throughout the U.S.
- 4 issues of the Wild’s Eye Newsletter
- park newspapers
- opportunity to participate in the IRNHA e-mail list
- membership programs and meetings.

Please send your contribution with the form below or charge your membership programs and meetings.

**NEWW! Diaries of an Isle Royale Fisherman**

*Seglem*

Reproductions of the journals and correspondence of Elling Seglem who fished from Isle Royale’s Fisherman’s Home between 1920 and 1932. A photographer during the winter, Seglem was extremely creative in design and illustrating newspaper-format letters sent home to his family in Chicago. Historic photos and cartoons. 185 pages.

**NEW! Ecological Study of Wolves on Isle Royale 2002-2003**

*Peterson*

This year’s report from the winter study on Isle Royale. Includes latest information on the island’s wolf and moose populations. *Annual Reports from 1999-2001 also available.*

**The Wolves of Isle Royale: A Broken Balance**

*Peterson*

First-hand account of the longest running study of any wild mammal. Author/wildlife biologist Roll Peterson has been involved in the study of wolves on Isle Royale for 33 years and is known worldwide for his research. Over 100 photos. Hardcover. 160 pages.

**Fishes of Isle Royale**

*Lager and Goldman*

An authoritative illustrated guidebook contains all the information you need to arrange everything from a series of day hikes to a two-week trail circuit the park. A must for planning your backpacking or canoeing trip to Isle Royale. 136 pages.

**Place Names of Isle Royale**

*Parratt and Welker*

The history, heritage, and stories of over 250 Isle Royale locations. A history of Isle Royale in itself. Illustrated with over 500 photographs, drawings and maps including a complete island map of Isle Royale. 96 pages.

**Superior Wilderness: Isle Royale National Park**

*Shelton*

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, iconography. 137 pages.

**The Wildflowers of Isle Royale**

*Jakes*

A complete guide to the 101 wildflowers of the island, each with a full written description and a large pen and ink drawing. Index. 96 pages.

**Exploring Isle Royale Video**

*VHS*

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 1993 Midwest Outdoor Writers Association Best Outdoor Travel Program. 28 minutes.

**Isle Royale T-shirt**

*Huber*

Heavyweight 100% cotton shirt in natural color depicting 8 images of Isle Royale flora and fauna — wolf, moose, iron, brook trout, wood lily, thimbleberry, mountain flower and balloons fr. Available in Adult M, L, XL, and XXL.

**NEW! Superior Beach Stones Posters**

*Robinson*

With mailing tabs $4.45.

A painting depicting the common and colorful beach stones of Isle Royale and the Keweenaw Peninsula. Multi-colored with a black border: 16” x 20”.

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