



BOUNDARY WATERS CANOE AREA WILDERNESS

TRIP PLANNING GUIDE



Your BWCAW Adventure Starts Here...

Photo courtesy of Ann Schwaller

GREAT GLACIERS carved the physical features of what is today known as the Boundary Waters Canoe Area Wilderness (BWCAW) by scraping and gouging rock. The glaciers left behind rugged cliffs and crags, canyons, gentle hills, towering rock formations, rocky shores, sandy beaches and several thousand lakes and streams, interspersed with islands and surrounded by forest.

The BWCAW is a unique area located in the northern third of the Superior National Forest in northeastern Minnesota. Over 1 million acres in size, it extends nearly 150 miles along the International Boundary adjacent to Canada's Quetico and La Verendrye

Provincial Parks and is bordered on the west by Voyageurs National Park. The BWCAW contains over 1200 miles of canoe routes, 12 hiking trails and over 2000 designated campsites. Wilderness offers freedom to those who wish to pursue an experience of expansive solitude, challenge and personal integration with nature. Because this area was set aside in 1926 to preserve its primitive character and made a part of the National Wilderness Preservation System in 1964 with subsequent legislation in 1978, it allows visitors to canoe, portage and camp in the spirit of those travelers that came before them.

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THIS INFORMATION IS AVAILABLE IN LARGE PRINT UPON REQUEST.



USDA — Forest Service
Superior National Forest
8901 Grand Avenue Place
Duluth, MN 55808



Plan Your BWCAW Trip and Accept the Wilderness Challenge.



Remember, successful wilderness trips don't just happen. They are the result of careful planning. Please use this trip planning guide to get started. However, we suggest that you also use guidebooks and maps that can be found in bookstores, local libraries, and outdoor equipment stores. The expertise of outfitters and guides can also be used when planning a BWCAW trip.

As you begin to plan your trip, ask yourself about the type of experience you seek. Would your needs for solitude or your quest for the elusive lake trout best be met inside the BWCAW portion of the Superior National Forest, or would camping in areas of the Forest adjacent to the BWCAW better suit the type of trip you want?

The BWCAW is only one of many recreation alternatives on the Superior National Forest.

Wilderness recreation requires careful planning and preparation and involves some risk. Wilderness travel offers great personal freedom, but also requires self-reliance and good judgement.

Permits are required to enter the wilderness. The visitor must have knowledge of the entry points and routes; some research may be needed to gather this information. These steps are necessary in order to protect the BWCAW and to provide a quality wilderness experience.

Leave a trip itinerary with someone at home including:

- ✓ Trip leader's name _____
- ✓ Entry point and date _____
- ✓ Exit point and date _____
- ✓ Potential route _____
- ✓ Number of people in the group _____
- ✓ Number of canoes or boats _____
- ✓ Nearest Forest Service Ranger Station and phone number _____
- _____
- ✓ Name of outfitter (if applicable) _____
- _____
- ✓ Make of car(s) driven & license number(s) _____
- _____

The Forest Service does not automatically initiate searches if a group doesn't exit as planned. If someone is concerned because you are late returning from your trip, they should contact the County Sheriff's office (See Page 16 for emergency contact info).

Before You Leave Home

Check current Minnesota Department of Natural Resources fishing, hunting and boating regulations including:

- Canoe and boat registrations (Minnesota requires all watercraft to be registered and honors any state watercraft registrations)
- Fishing licenses and trout stamps
- Fishing limits and possession of fish
- Hunting seasons
- Watercraft lights

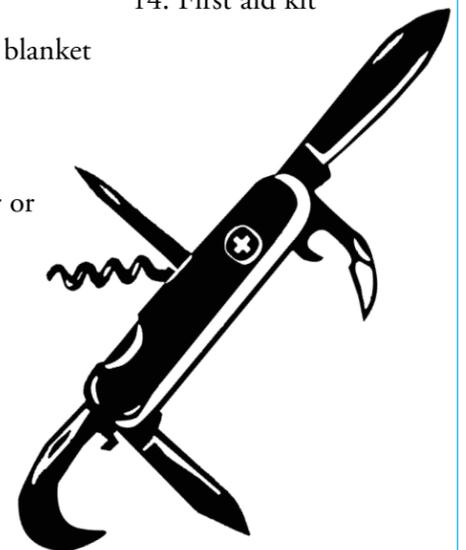
<http://www.dnr.state.mn.us>

Wilderness visitors face inherent risk of adverse weather conditions, isolation, physical hazards, and lack of rapid communications. Search and rescue will not be as swift as expected in an urban setting. Be prepared! Prevent the need for a search and rescue operation that may impede the integrity of the wilderness area or put others in danger. Acquire and maintain necessary skills for primitive travel by foot, canoe, or other non-mechanical means.

You are responsible for your own safety and that of your group.

Consider specific survival gear to prevent becoming injured or lost in the wilderness such as:

- | | |
|-----------------------------|-----------------------|
| 1. Extra food | 10. Fire starter |
| 2. Rain gear | 11. Water proof pouch |
| 3. Warm clothing | 12. Nylon cord |
| 4. Signaling mirror | 13. Folding knife |
| 5. Whistle | 14. First aid kit |
| 6. Emergency blanket | |
| 7. Map | |
| 8. Compass | |
| 9. Water filter or purifier | |



Superior National Forest Recreation Alternatives

If something other than a wilderness trip is more your style, consider one of the following recreation alternatives in other beautiful areas of Superior National Forest. There are many ways to experience the great outdoors; explore what is best for you.

Backcountry Sites

There are a variety of camping options outside the Boundary Waters Canoe Area Wilderness that can offer the same peace and tranquility. In the Superior National Forest, there are over 200 sites outside the Wilderness called "backcountry campsites". These areas offer remote paddling, camping, and fishing. Here you can experience solitude without fees or permits, and still have a fire grate and latrine. These areas also have fewer regulations. However, visitors to backcountry areas should follow the LEAVE NO TRACE ethic.

Campgrounds

The Superior National Forest has 23 developed campgrounds. Campgrounds are generally open from mid-May to mid-September; some are open all year with no water or garbage pickup off-season, though walk-in access may be required. Campground facilities vary from flush toilets and showers to rustic campgrounds with vault toilets and hand pumps. Each campsite has a picnic table, fireplace, tent pad and parking spot. For a fee, reservations may be made in advance at some of the campgrounds through the National Recreation Reservation System (NRRS) by calling 1-877-444-6777 or at www.recreation.gov.

Rustic. There are 17 rustic campgrounds with no fees. Water and garbage are not available.

Commercial Resorts and Campgrounds

Within the Superior National Forest are a variety of private resorts and campgrounds that may suit the needs of a visitor looking for a trip near the wilderness rather than in it. Some of these accommodations are set up with showers, electrical hookups, and numerous other amenities. If this describes your needs, you can get more information at the chamber of commerce located nearest to the area you would be visiting. See Page 8 for chamber of commerce and tourism contact information. Many of the chambers have web pages that may be accessed for more information.

Additional information about campgrounds is available at www.fs.usda.gov/superior and www.recreation.gov

The Basics

Wilderness Permits

Permits are required year-round for all visitors to the Boundary Waters Canoe Area Wilderness (BWCAW). Please use the following information to help you determine which type of permit is appropriate for your group.

Quota Permits

Quota permits are required for any group entering the BWCAW between May 1 and September 30 if they are camping overnight (whether the group is paddling, motoring, or hiking) or if they are visiting during the day using a motorized boat. The quota system regulates how many groups may enter an entry point each day. In addition to daily quotas, motorized use is limited by a weekly motor quota. Groups may only enter the BWCAW on the entry date and through the entry point specified on the permit. Permits may only be picked up the day before or on the date specified on the permit. Permits may not be transferred to someone not listed on the permit. Reservations are recommended since there is a limited number of quota permits available for each entry point. Quota permits are issued only at Forest Service permit issuing stations and cooperating businesses.

Non-Quota Self-issuing Permits

Self-issued permits are required year-round for all non-motorized day use visitors, for any motorized day use into Little Vermilion Lake, and for all overnight visitors entering the BWCAW between October 1 and April 30. The self-issue forms are available at any Superior National Forest Office and in permit boxes at BWCAW entry points. No quota is applied to this use, so no reservations are needed. Please fill out the form carefully and review the rules on the back of the permit with your entire group. Carry the top copy of the permit with you at all times and place the duplicate copy in the box at the entry point or drop it off at the nearest Forest Service office when you return. Snowmobiling is prohibited in the BWCAW.

Special Use Permits

Outfitters and guides leading groups into the BWCAW must obtain a special use permit. A listing of BWCAW Outfitters and Guides can be found at www.fs.usda.gov/superior in the BWCAW section.

User Fees

User fees are charged for all overnight visitors to the BWCAW between May 1 and September 30. There are no user fees for day use visitors. Fees are as follows:

User Fees Per Person Per Trip

Adult	\$16.00
Youth (0-17)	\$8.00
Interagency Senior/Access Card Holders	\$8.00
Youth Access Card Holders	\$4.00

BWCAW Seasonal Fee Card

The purchase of a BWCAW Seasonal Fee Card fulfills the user fee requirements for the season, but does not eliminate the need for obtaining a BWCAW

permit. For reserved permits it does not eliminate the need to pay the \$6.00 reservation fee and user fee deposit. They may be purchased in person after May 1 from any Forest Service Permit Issuing Station.

Seasonal Fee Card Costs Per Person

Adult	\$64.00
Youth (0-17)	\$32.00
Interagency Senior/Access Card Holders	\$32.00
Youth Access Card Holder	\$16.00

Permit Reservations

First-Come, First-Served

Permit reservations will be released on a first-come, first-served basis beginning at 9:00 a.m. Central Time on the last Wednesday in January through www.recreation.gov or the reservation center at: 1-877-444-6777. Visitors will see available entry points and dates, and make a reservation instantly for the permit that best meets their needs. A \$6.00 non-refundable reservation fee is charged for each permit reserved. The entry point, entry date, group leader, and alternates cannot be changed after the reservation is complete. The exit date, issuing station, and group size may be changed.

Permit Lottery

The lottery has been retained for Moose and Fall Lake entry points only, including day use motor entry points D, F, and G; and overnight paddle and motor entry points 24 and 25. (Entry Point C Fall Lake only is not included in the lottery). Check the Superior National Forest website for lottery dates. And please remember to cancel any reservation you are unable to use. All reservations may be cancelled up to one day prior to the entry date. Day use motor permits may be cancelled even during the reserved week.

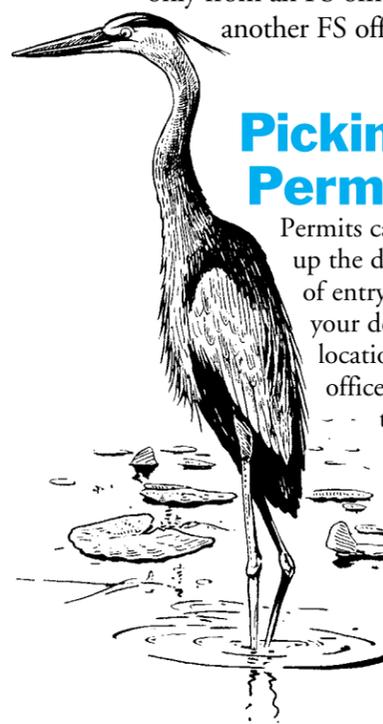
Overnight User Fee Deposit

When making advanced reservations, you will be charged a minimum of 2 adult overnight user fees. You will also have the option to pay for the entire group as well as changing the group size within a one day window prior to your entry date. If cancelled outside the 2-day window, the card holder will be fully refunded. If cancelled within the 2-day window, \$32.00 for 2 adults is retained and additional payments will be refunded. The Forest Service will retain the entire payment if the group is a no show. A new confirmation letter will be generated each time a change is made. Adjustments to group sizes will be made at the permit issuing station as needed.

Permit Issuing Station

When reserving a permit, the default issuing station will be the Forest Service (FS) Office responsible for that entry point. You may choose a cooperating business as a permit issuing station. Businesses are often open earlier and later than FS stations. See the list of permit issuing stations on page 16 of this brochure. Hours and contact information of the issuing station will be listed on your confirmation email. You may want to confirm dates, hours and location ahead of time. You may change your issuing station through your recreation.gov account. You cannot change the

location from one cooperating business to another, only from an FS office to a cooperator or another FS office.



Picking Up A Permit

Permits can only be picked up the day before or the day of entry. Please check with your desired permit pick-up location to confirm their office hours. Remember to bring a photo ID when you pick up your permit.

Reserved Permits

Permits may only be picked up the day before or on the date of entry from a Permit Issuing

Station by a group leader or alternate listed on the permit. Alternates cannot be added after a permit is reserved. Listing alternates gives your group options if the group leader must miss the trip. Remember to bring a photo ID with you. The person signing the permit must be with the group the entire trip. If your group size changes, additional user fees will be collected or a refund will be credited to the credit card used to pay for the reservation.

Non-Reserved Permits

Walk-up permits for any entry point with available quota may be obtained the day before or on the date of entry. User fees apply, but the \$6 reservation fee will not be charged.

Payment

Credit cards are the preferred method of payment at all permit stations. Cooperating businesses cannot accept cash or checks for user fees. Any discount cards (Interagency Senior/Access and BWCAW Seasonal Fee cards) or 1854 Treaty Cards must be presented at the time the permit is issued for discounts. Cooperating businesses may charge up to \$2.00 to issue an overnight permit.

What we are doing to the forests of the world is but a mirror reflection of what we are doing to ourselves and to one another.

— Mahatma Gandhi

BWCAW Reservation Information

WEBSITE

www.recreation.gov

TDD (TOLL-FREE)

(877) TDD-NRRS

PHONE (TOLL-FREE)

(877) 444-6777

MAILING ADDRESS

BWCAW Reservation Center
18 Division St. Suite 213 • Saratoga Springs, NY 12688

INTERNATIONAL RESERVATIONS

(518) 885-3639

Leave No Trace Principles

“There are just two things on this material earth – people and natural resources” — Gifford Pinchot

The Leave No Trace Principles of outdoor ethics form the framework of the Leave No Trace message and the BWCAW Rules and Regulations:

The Lakes Region is legendary in its richness and complexity. It exerts an ageless draw upon people who seek adventure, refreshment and the exhilaration of outdoor recreation. But, as these wildlands host more and more visitors, our collective mark on the environment has become apparent — and more damaging. Water pollution, litter, and disturbance to vegetation and soil, wildlife and other recreating visitors are indicators of the need to protect these wild

and serene waters and forests, and their inhabitants.

There are far more of us pushing our outdoor activities to greater extremes and into the remotest parts of the natural world everyday. Our mere presence in wildlands has an influence. Destruction can be prevented if visitors are better informed, especially about low impact techniques. Together we can act on behalf of the places and wildlife that

inspire us. To insure their continued existence, we must educate ourselves and adopt the skills and ethics that enable us to LNT. Please see the *Lakes Region Leave No Trace Skills & Ethics Edition*. For a copy of this publication and more information on how you can become LNT savvy, visit www.lnt.org.



Plan Ahead and Prepare

- Know area rules and regulations
- Prepare for extreme weather
- Use a map and compass
- Reduce litter from the source — repackage food into reusable plastic bags or containers and remove excess packaging. Unwrap snack foods at home and bag them in bulk.



Travel and Camp on Durable Surfaces

- Durable surfaces include established trails and campsites, rock, gravel, dry grasses, or snow
- Keep campsites small – stay in area where vegetation is absent
- Walk in single file in the middle of the trail even when the trail is muddy



Dispose of Waste Properly

- Pack out all trash, leftover food, and litter
- Deposit human or dog waste in the latrines
- Wash yourself and dishes with biodegradable soap away from streams or lakes
- Burning trash in firegrates pollutes and is illegal



Leave What You Find

- Don't take cultural or historical artifacts or structures
- Do not introduce or transport non-native plants, live bait or animals
- Leave rocks, plants and other natural objects as you find them



Minimize Campfire Impacts

- Use a lightweight stove for cooking
- When fires are permitted, use an established fire grate and keep fires small
- Burn all wood and coals to ash, and make sure the fire is completely out
- Even after forest fires, you may see an ample supply of burned wood near your site. Collect firewood away from campsites to prevent enlarging and defacing the area

You can also do your part by viewing a 20-minute user education video as part of your trip planning process. After viewing this video, BWCAW visitors will understand how they can make a difference in the long-term health of the BWCAW by engaging in responsible recreation practices. This is an essential educational tool in protecting the fragile wilderness ecosystem and providing a quality recreation experience for current and future generations. To obtain a copy of the BWCAW Leave No Trace User Education Video, please contact any Forest Service Office found on page 16 of this publication.



Be Considerate of Other Visitors

- Take breaks away from trails, portages and other visitors
- Let nature's sounds prevail — avoid loud voices and noises
- Don't take campsites for day use, as this may prevent someone from camping overnight

Photo courtesy of ETHAN KNUTI, Little Canada, MN



Respect Wildlife

- Do not follow or approach wildlife
- Never feed animals. It can damage their health and alters wild natural behaviors
- Protect wildlife and your food by storing rations properly
- Use lead-free tackle



www.lnt.org

BWCA Wilderness Rules & Regulations

The following are enforceable Forest Service regulations (maximum penalty of \$5,000 and/or 6 months in jail).

TRAVEL PERMITS

- You must enter the BWCAW at the entry point and on the entry date shown on your permit.
- You may not re-enter on a different date using the same permit.
- Permit stubs become invalid when the group leader exits the wilderness.
- The person signing for and picking up the permit can only be responsible for one group during the specified time on the permit.

GROUP SIZE

- Nine (9) people and four (4) watercraft are the maximum allowed together in the wilderness.
- You may not exceed the limit at any time or anywhere (on water, portages, campsites) in the BWCAW.
- Smaller groups increase your wilderness experience and decrease the impacts.



TOILET FACILITIES & WATER QUALITY

- Use latrines at designated campsites.
- Latrines are not garbage cans and should be used for the intended purpose only. Personal waste items such as cigarettes, cotton swabs, or plastic feminine products should always be packed out and should never go into the latrines.
- If you're not near a latrine, dig a small hole 6 to 8 inches deep at least 150-200 feet or more back from the water's edge. When finished, fill hole and cover with needles and leaves.
- Bathe and wash dishes at least 150-200 feet from lakes and streams.
- All soaps pollute water including soaps labeled "biodegradable."

CONTAINERS

- Cans and glass bottles are not allowed.
- Containers of fuel, insect repellent, medicines, personal toilet articles, and other items that are not foods or beverages are the only cans and bottles you may keep in their original containers.
- Food may be packaged in plastic containers that must be packed out with you.

FOOD, FISH REMAINS & LIVE BAIT

- Try to plan your meals so you don't have leftovers. If you do, pack them out.
- Dispose of fish remains by traveling well away from campsites, trails, portages and shorelines.
- When preparing for your trip, reduce litter at the source by minimizing packaging.
- State law prohibits dumping unused bait into waters of the state. Dumping bait on the ground is considered littering. Therefore, unwanted live bait should be packed out with you and placed in the trash, disposal bins or compost bins.

CAMPFIRES

- Fires are allowed within the steel fire grates at designated campsites or as specifically approved on your visitor's permit.

- Bringing a small camp stove may be a better idea because it heats food more quickly, has less impact than a fire, and comes in handy during rainy weather.
- Due to the potential fire danger, fire restrictions may be put into effect. Check on current conditions just prior to your trip. You may be required to use a camp stove if there is a campfire restriction.
- If you build a fire, burn only small diameter dead wood found lying on the ground. Do not burn trash.
- Collect firewood away from campsites by paddling down the shore and walking into the woods where it is more abundant.
- Wood easily broken by hand or cut with a small folding saw eliminates the need for an axe.
- Drown your fire with water any time you are going to be away from your camp or at bedtime. Stir the ashes until they are cold to the touch with a bare hand.
- Transporting wood from out of state is prohibited.

CAMPsites

- All members of a permit group must camp together.
- During ice free season, camp only at Forest Service designated campsites that have steel fire grates and wilderness latrines. For winter camping, see pg. 7.
- Make camp early in the day to ensure finding an available campsite.
- It is illegal to cut live vegetation for any reason.
- You may camp up to fourteen (14) consecutive days on a specific site.

STORING WATERCRAFT

- Only watercraft and equipment used in connection with your current visit may be stored and left unattended.
- All equipment and personal property must be carried out with you at the end of each trip.

CULTURAL HERITAGE

- Leave archaeological, historical, and rock painting sites undisturbed.
- The use of metal detectors is prohibited.

FIREARMS & FIREWORKS

- Discharging a firearm is prohibited within 150 yards of a campsite, or occupied area, or in any manner or location that places people or property at risk of injury.
- State game laws apply in the BWCAW.
- Fireworks of any kind are illegal.

PETS

- Dogs impact wildlife and barking intrudes on the experience of others. They must be under control at all times.
- Dispose of fecal matter 150 feet from water sources, campsites, and portages, or deposit it in a latrine.

LEAVE NO TRACE OF YOUR VISIT

- After you break camp and load your watercraft, do a final inspection of your camp. Pick up any remaining litter.
- Your fire must be cold to the touch.
- Please treat the BWCAW with care. Leave no trace of your visit to protect this special place for future generations.

MOTOR-POWERED WATERCRAFT REGULATIONS

- Motor-powered watercraft are permitted only on the following designated lakes. All other lakes or portions of lakes within the BWCAW are paddle-only. Motors may not be used or be in possession

on any paddle-only lake. No other motorized or mechanized equipment (including pontoon boats, sailboats, sailboards) is allowed.



LAKES WITH 10 HORSEPOWER LIMIT

On these lakes, the possession of one additional motor no greater than 6 horsepower is permitted, as long as motors in use do not exceed 10 horsepower.

- Clearwater, North Fowl, South Fowl, Seagull (no motors west of Three Mile Island), Sections of Island River within the BWCAW.

LAKES WITH 25 HORSEPOWER LIMIT

On these lakes or portions of these lakes, the possession of one additional motor no greater than 10 horsepower is permitted, as long as motors in use do not exceed 25 horsepower:

- Basswood (except that portion north of Jackfish Bay and Washington Island), Saganaga (except that portion west of American Point), Fall, Newton, Moose, Newfound, Sucker, Snowbank, East Bearskin, South Farm, Trout.

PORTAGE WHEELS

Mechanical assistance is only permitted over the following: International Boundary, Four-Mile Portage, Fall-Newton-Pipestone and Back Bay Portages into Basswood Lake, Prairie Portage, Vermilion-Trout Lake Portage.

LAKES WITH NO HORSEPOWER LIMITS

- Little Vermilion, Loon, Lac La Croix (not beyond the south end of Snow Bay in the U.S.A.), Loon River.

HIKING

While canoeing is the travel option for most visitors, the BWCAW is also host to several hiking trails with opportunities ranging from short day hikes to multiple-day backpacking trips. No matter what length of hike you plan to take, hiking in the wilderness is not something you should attempt without proper preparation, skills and equipment. Wilderness trails vary in their level of use and maintenance. Signage is minimal so it is a good idea to talk to someone at the nearest Ranger District Office for current trail conditions.

There are a few restrictions that are slightly different for those traveling by foot. Hikers should use developed campsites along the trail or lake. Campsites along the trails are located on short spur trails off the main trail and contain a fire grate and wilderness latrine. Most campsites are signed from the main trail with a tent symbol. If for some reason, (i.e. an approaching storm, full campsites, emergency, no developed campsite nearby) you must camp at a site other than a developed site, hikers may do so with the following restrictions:

- Trail users are encouraged to minimize impact by limiting use to one night on non-developed sites.
- You must camp more than 150-200 feet from a developed site or another group.
- You must camp at least 150-200 feet from any trail, portage, lake or other water source.
- Most importantly, be sure to use common sense and follow the safety guidelines recommended on Page 6-7. Wilderness permits are required year round for hiking in the BWCAW. Happy Trails!

Smart & Safe Wilderness Travel

Wilderness travel offers great personal freedom, but also requires self-reliance and good judgment. By using common sense and following these important safety tips, you can have a safe BWCAW experience.

LIFE JACKETS

- Always wear a lifejacket.
- Minnesota state law requires all watercraft, including canoes, to have one wearable U.S. Coast Guard-approved personal flotation device (PFD) on board and readily accessible for each person in the watercraft.



MANDATORY CHILD LIFE JACKET WEAR LAW:

Minnesota law requires a life jacket to be worn by children less than 10 years old when aboard any watercraft while underway.

For more on Minnesota state law, see <http://www.dnr.state.mn.us/safety/boatwater/index.html>

RAPIDS

- Generally, rapids in the BWCAW are not safe to “run”, so use the provided portages.
- Powerful currents can trap swimmers under water, or sweep them towards dangerous waterfalls.
- Fast moving water can push swimmers and boats into rocks and logs.
- Even with lifejackets on, rapids are dangerous.

WATER QUALITY

- Giardia lamblia is a parasite that can cause an internal illness that will need medical attention.
- All drinking water should be treated by one of the following methods: 1. Bring water to a full boil for 3 to 5 minutes — then let stand until cool enough to drink. 2. Purify with a filter specifically designed to remove Giardia lamblia. 3. Treat water with a chemical specifically designed to kill Giardia lamblia.



FISH

- Chemicals such as mercury, PCBs, and dioxin have been found in some fish from certain waters.
- Eat more pan fish and fewer predator fish and trim the skin and fat, to reduce your risk.
- Check with the Minnesota Department of Public Health for current information on limits on fish consumption at (651) 201-4911.

HYPOTHERMIA

- A low body temperature can be serious, even fatal.
- Early warning signs are uncontrolled shivering, slurred speech, bluish tinge to lips, lack of coordination, and poor concentration.
- To prevent hypothermia, layer clothing and get adequate food and water.

- To treat hypothermia, seek shelter from the wind, replace any wet clothing, and share body heat if necessary.

- Give warm fluids if the person is conscious and have them rest until thoroughly warmed.

FIRST AID AND EMERGENCIES

- Each permitted group should carry a well stocked first aid kit and have group members that know how to provide first aid.
- Please note that the campsite number is painted on the latrine of most campsites. Also note the location of the lake, campsite, trail or portage on a map to help emergency people locate any seriously injured party.

- Document the extent of the injury and a basic physical description of the injured person.
- Send all of this information with visitors able to exit the BWCAW for help.

- Do not rely on a cell phone. Having a cell phone cannot substitute for knowing how to handle an emergency in wilderness. Many areas of the BWCAW lack cell phone coverage.
- In the event of serious injury or illness, the standard SOS call is a series of three signals of any kind, either audible or visible.

- For summoning help from an aircraft in an emergency, signal them by paddling in small circles or waving a brightly colored cloth tied to the canoe paddle.



WEATHER

- Canoe close to shore. It lessens the chance of being endangered by sudden changes of weather. If a storm threatens, get off the water.
- Dress in layers and be prepared for every kind of weather situation.
- If in a lightning storm on the water, get to shore. If on land among trees of similar height, put yourself an equivalent distance between two trees. Avoid the tallest trees.
- Avoid being a bridge between an object and the ground. For example, do not lean against tent poles or trees.
- Avoid potential paths of conduction such as wet, lichen-covered rocks, cracks and crevices (wet or dry), and areas subject to the “spark gap” such as overhangs, wet ropes, and tree roots.
- If your skin tingles, or your hair stands on end, stand on a lifejacket or sleeping bag, squat low to the ground on the balls of your feet.
- Place your hands on your knees with your head between them. Make yourself the smallest target possible, and minimize your contact with the ground.

DEHYDRATION

- The body becomes dehydrated when more fluids are lost than replaced.
- Drink plenty of water.
- Signs of dehydration include headache, cold and flu symptoms, and infrequent urination.

BEAR AWARENESS

- Keep a clean campsite. Never eat or store food in your tent.
- Take all precautions to discourage bears from visiting your site, including hanging your food pack or using a bear-resistant container, as well as garbage and anything that has a strong or sweet odor (soap, toothpaste, etc.).
- Some bears overcome their fear of humans and approach campsites looking for food. This includes island sites since bears are good swimmers.
- If you do encounter a bear, most will be scared off if you make noise (shout, bang pots, or throw fist-sized rocks at the bear, etc.).
- A very persistent bear may be discouraged by spraying pepper spray into its eyes.



TRAVEL

- There are no directional signs in wilderness.
- A compass and accurate map are essential.
- Most visitors prefer using Fisher or McKenzie maps which can be purchased at some Forest Service offices, area businesses and outfitters, or directly from the map companies—see page 8 for details.
- If you get lost, don't panic. Sit down, relax, and think. Chances are that you will figure out your location in a few minutes.
- If you plan to use a Global Positioning System (GPS) for navigating, be sure you also bring a map and compass as a back up in case your GPS unit fails.

The BWCA Wilderness Education Kit

Engage. Explore. Inspire. A learning journey through the Boundary Waters Canoe Area Wilderness...



The BWCA Wilderness Kit is a curriculum of hands-on activities, colorful maps, exciting games, and real artifacts that will engage middle school aged youth. Use of this Kit varies from

50 minutes to 5 hours or more. Through interactive and small group activities, this curriculum will help kids explore and



discover the history, science, and social science of Minnesota's only wilderness—the Boundary Waters Canoe Area Wilderness. The BWCA Wilderness Kit was created by the Friends of the Boundary Waters Wilderness and Superior National Forest. Please contact the Forest Service to find out more about this unique education



tool and how to schedule it to use with your class or youth group.

To reserve call (218) 626-4300 or email r9_superior_NF@fs.fed.us.

For more information visit the Learning Center at www.fs.usda.gov/superior

Winter Wilderness Travel

“I love the deep silence of the winter woods. It is a stillness you can rest your whole weight against... so profound you are sure it will hold and last.” — Florence Page Jaques

The BWCAW in the winter is a truly unique experience, whether traveling by dogsled, skijoring, skiing, or snowshoeing. Visitors who come to the wilderness during this time of the year have a very different kind of experience than those that visit during the summer season. You are less likely to run into other visitors and can experience a sense of solitude and self reliance in a way that few other places allow. Winter wilderness travel requires a high degree of preparation, planning, skill, and self-reliance.

Winter temperatures in the BWCAW average 15-20 degrees Fahrenheit, with overnight lows from zero to 7 below zero. During severe cold spells, daily highs can remain below zero, with low temperatures falling into the 20 to 30 below zero range. Wind chill exacerbates the cold, and blowing snow can make travel difficult. Average snowfall is 50-60 inches, with 70-90 inches along Lake Superior. Snow depths in late February to early March may be 15-25 inches with some higher terrain receiving over three feet.

Winter conditions make self-reliance, good judgment, and knowledge of your limits critical. Whether you are dog sledding, skiing, or snowshoeing, it is important to plan well and prevent hypothermia and frostbite:

- Be prepared for extreme cold, windy or wet conditions. Dress in layers to remain comfortable by adding or removing clothing depending on conditions and your energy level. Change into dry clothing as needed.
- Drink plenty of water and eat often. Avoid alcoholic beverages. Alcohol causes the body to lose heat more rapidly, even though one may feel warmer after drinking.
- Avoid open water and thin ice. Never walk on ice less than four inches thick.
- Hypothermia is a dangerous lowering of the body temperature. Warning signs include uncontrollable shivering, disorientation, slurred speech and drowsiness. Frostbite causes a loss of feeling and a white or pale appearance in extremities such as fingers, toes, tip of the nose and ear lobes. If symptoms of either condition are detected, get medical care immediately!



Wilderness rules and regulations (see Page 5) apply year-round. Even though the BWCAW has a beautiful white protective coat on in the winter we still need to take care to Leave No Trace.

TRAVEL PERMITS

Permits are required year-round for all visitors to the Boundary Waters Canoe Area Wilderness. For day or overnight travel from October 1–April 30, it's easy! Fill out a self-issued permit at any Superior National Forest office, or at a BWCAW entry point. Carry one copy with you during the trip and drop the other copy in the permit box at the entry point.

Choose a Campsite

- When lakes are open, camp at designated sites using firegrates and latrines.

- When lakes are frozen, camp on ice, in a sheltered bay, or in a natural forest opening. Locate camp at least 150 feet from trails or summer campsites, and out of sight of other groups.
- Make just one trail connecting the shoreline to camp.
- Bury human waste in snow 150-200 feet from water, campsites, summer trails and portages (pack out toilet paper).

Campfires

It is preferable to make a campfire on the ice to minimize fire scars on rocks and shorelines. Use base logs or a portable fire pan for your campfire on the ice. Use a campstove or fire pan for a campfire on land to avoid leaving fire scars on vegetation or rocks.

- Collect only dead and down wood far from shorelines, trails or campsites.
- Make sure your fire is out cold to the touch when you leave.
- Scatter ashes in the woods away from the shoreline and cover the campfire scar with snow.

Live Vegetation

Do not cut green vegetation for tent poles, bedding for humans or dogs, or to create new dogsled trails.

Reduce Dog Impacts

- Keep dogs under control at all times.
- To avoid damaging or “girdling” trees with rope when staking out dogs, use webbing straps around tree and attach dog picket line to webbing.
- Tether teams out on the ice with ice screws to avoid damaging shoreline vegetation.
- Never bring hay or straw for bedding because they introduce non-native plants.
- Scatter dog feces in the woods at least 150-200 feet from the water's edge. Keep the entry points clean for others by picking up feces before and after hitting the trail.

Those who contemplate the beauty of the earth find reserves of strength that will endure as long as life lasts.

— Rachel Carson

TRAVEL TO AND FROM CANADA

All U.S. citizens are now required to present a passport book, passport card, or WHTI-compliant document when entering the United States. See CPV.gov for identification document examples.

Please Note: Children under age 16 will be able to continue crossing land and sea borders using only a U.S. birth certificate (or other form of U.S. citizenship such as a naturalization certificate). The original birth certificate or a copy may be used. See the Department of Homeland Security's website listed on page 16 for more information on the changing travel requirements.

ENTRY INTO CANADA

If your trip to the BWCAW will include entry into Canada, you should contact the Canada Border Services Agency at least 6-8 weeks in advance of your trip to obtain a Remote Area Border

Crossing (RABC) permit. For information visit the Citizenship & Immigration Canada (CIC) website at www.cbsa-asfc.gc.ca or call (807) 624-2162 to get an application for the RABC permit. Permits are required for overnight and day use entry. Please check with www.ontarioparks.com for your permit needs.

FISHING IN CANADA

If you plan on fishing in Canada, including the Canadian side of the border lakes, you must have a Canadian fishing license. Non-resident fishing licences are available through the mail by calling the Ontario Ministry of Natural Resources at 1-800-667-1940.

For more information visit www.mnr.gov.on.ca/MNR/fishing.

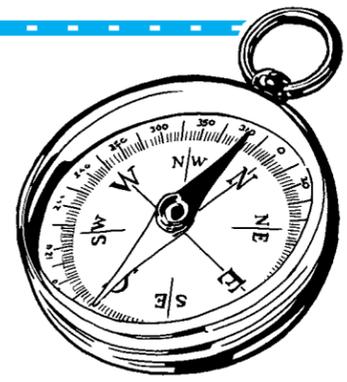
REENTRY INTO THE US FROM CANADA

If you enter the United States from Canada on your BWCAW trip, you must report to a Customs Border Protection (CBP) officer for inspection at the Grand Portage port of entry or designated inspection locations in Grand Marais, Crane Lake and Ely every time you enter the U.S. from Canada by boat. For more information visit the Customs and Border Protection website at:

http://www.cbp.gov/xp/cgov/travel/pleasure_boats/

The map and chart on these pages are intended to provide a general idea of where Boundary Waters Canoe Area Wilderness entry points and Forest Service permit issuing stations are located on the Superior National Forest, as well as some basic information about each entry point. When planning your trip we highly recommend that you supplement this information with maps, guidebooks, and the advice of your outfitter and/or guide, if you decide to use one.

Maps and guidebooks are available from the following list of sources. A list of organizations that will assist you in locating guides and outfitters in the area you plan to visit is provided.



Maps & Publications

Detailed canoe route maps are available from outfitters in communities near the BWCAW or directly from these sources.

W.A. Fisher Co.
123 Chestnut, PO Box 1107
Virginia, MN 55792
(218) 741-9544
www.fishermaps.com

McKenzie Maps
8479 East Frye Road
Minong, WI 54859
800-749-2113
www.mckenziemaps.com

Voyageur Maps
PO Box 2401
Minneapolis, MN 55419
612-518-7580
www.voyageurmaps.com

Eastern National
Provides quality educational products and services to the Superior National Forest.
877-628-7275
www.easternnational.org.

Area Guides & Outfitters

Cook Chamber of Commerce
PO Box 296,
Cook, MN 55723
1-877-526-6562
www.cookminnesota.com

Crane Lake Visitor & Tourism Bureau
7238 Handberg Road
Crane Lake, MN 55725
800-362-7405
www.visitoranelake.com

Ely Chamber of Commerce
1600 E. Sheridan Street
Ely, MN 55731
(218) 365-6123 • (800) 777-7281
www.ely.org

Grand Marais Visitor Information Center
P.O. Box 1330, 13 North Broadway Avenue
Grand Marais, MN 55604
888-922-5000
www.grandmarais.com

Gunflint Trail Association
PO Box 205
Grand Marais, MN 55604
800-338-6932
www.gunflint-trail.com

Lake Vermilion Chamber of Commerce
Box 776
Tower, MN 55790
(218) 753-2301 • 1-800-869-3766
www.lakevermilioncommerce.com

Lutsen-Tofte Tourism Assoc.
Box 2248
Tofte, MN 55615
(218) 663-7804 • 888-616-6784
www.americasnorthcoast.org

MN Office of Tourism
Explore Minnesota Tourism
121 7th Place E
Metro Square, Suite 100
St. Paul, MN 55101
888-TOURISM 888-868-7476
www.exploreminnesota.com

Info for Travel to Quetico

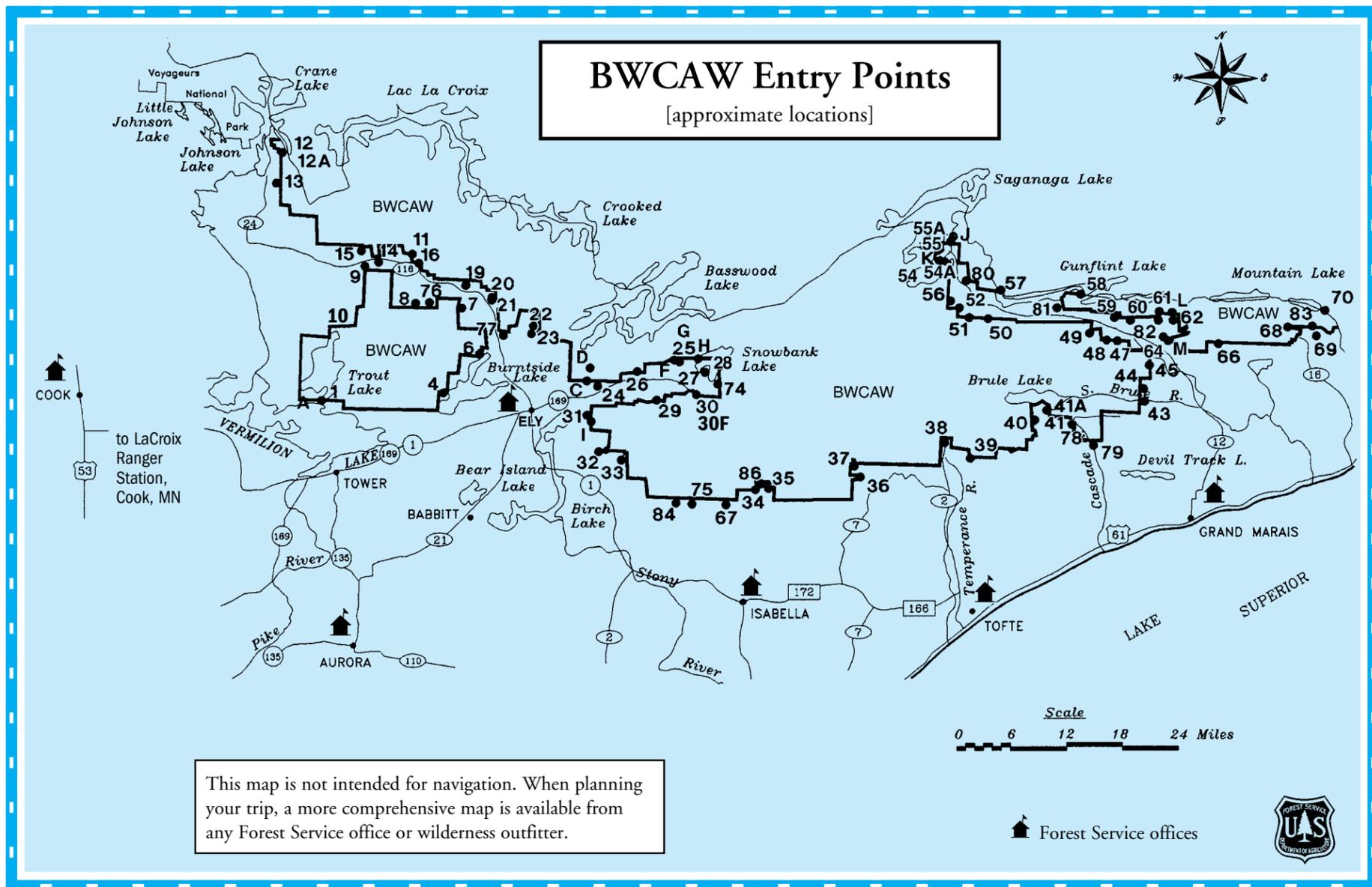
**Quetico Provincial Park
District Manager
Minister of Natural Resources**
108 Saturn Ave.
Atikokan, Ontario POT 1C0
807-597-2735 • 800-667-1940
www.ontarioparks.com

See page 7 for travel to Quetico.

* These entry points and associated quota are for paddle only permits. However, motor boat quotas are also available for these areas, (see Overnight Paddle or Motor section on Page 9) and motors may be encountered along portions of the route. To check availability for the following entry points, please visit www.recreation.gov.

METHOD OF ENTRY	ENTRY POINT NUMBER	ENTRY POINT NAME	RESPONSIBLE RANGER DISTRICT & TOWN	OTHER REMARKS
OVERNIGHT Paddle only	4	Crab Lake & Cummings Lake	Kawishiwi/Ely	Access from Burntside Lake with a 360-rod portage to Crab Lake.
	6	Slim Lake	Kawishiwi/Ely	Access is a 90-rod portage to Slim Lake Portages to three additional lakes.
	7	From Big Lake	Kawishiwi/Ely	Access La Pond Lake with a 160-rod portage from outside the BWCAW on Big Lake.
	8	Moose River South	La Croix/Cook	Access is a canoe landing heading South from the Echo Trail. Three portages to enter Big Moose Lake.
	9	Little Indian Sioux River South	La Croix/Cook	Heading South from the Echo Trail. Difficult route. Four portages to Bootleg Lake.
	14	Little Indian Sioux River North	La Croix/Cook	Access is a 40-rod portage heading North from the Echo Trail.
	16	Moose/Portage River North of Echo Trail	La Croix/Cook	Access is a 160-rod portage heading North from the Echo Trail.
	19	Stuart River	Kawishiwi/Ely	Access is a 480-rod portage to the Stuart River.
	20	Anglemorm Lake	Kawishiwi/Ely	Access is a 640-rod portage to Anglemorm Lake.
	22	Mudro Lake—Restricted	Kawishiwi/Ely	Three accesses into Mudro Lake involve portages ranging from 20–185 rods. Restriction is no camping on Horse Lake.
	23	Mudro Lake	Kawishiwi/Ely	Access into Mudro Lake involves portages ranging from 20–185 rods.
	26	Wood Lake	Kawishiwi/Ely	Access to Wood Lake is a 180-rod portage.
	28	Snowbank Lake Only *	Kawishiwi/Ely	Must camp all nights on Snowbank Lake. Paddle day trips to other lakes are permitted. Access is a boat landing or canoe launch at Snowbank Lake.
	29	North Kawishiwi River	Kawishiwi/Ely	Access the North Kawishiwi River through Ojibway Lake and Triangle Lake using two portages.
	30	Lake One	Kawishiwi/Ely	Access is a canoe landing at Lake One.
	30F	Lake One - Restricted	Kawishiwi/Ely	Entry point shares the same physical location but no camping on the Kawishiwi River
	32	South Kawishiwi River	Kawishiwi/Ely	Access is a 140-rod portage to the river.
	33	Little Gabbro Lake	Kawishiwi/Ely	Access is a 200-rod portage from the parking lot to Little Gabbro Lake.
	34	Isabella River	Tofte/Tofte	Two small portages leading to Isabella River.
	35	Isabella Lake	Tofte/Tofte	Access is a 70-rod portage to Isabella Lake.
	36	Hog Creek	Tofte/Tofte	Access is a 15-rod portage to Hog Creek leading into Perent Lake.
	37	Kawishiwi Lake	Tofte/Tofte	Access is a boat landing at Kawishiwi Lake.
	38	Sawbill Lake	Tofte/Tofte	Access is a boat landing at Sawbill Lake.
	39	Baker Lake	Tofte/Tofte	Access is a boat landing at Baker Lake with a 10-rod portage into Peterson Lake to reach first campsite.
	40	Homer Lake	Tofte/Tofte	Access is a boat landing at Homer Lake. Part of Homer Lake is outside of the BWCAW where motors are allowed.
	41	Brule Lake	Tofte/Tofte	Access is a boat landing at Brule Lake. Large lake with several campsites.
	41A	Brule Lake Only	Tofte/Tofte	Access is a boat landing at Brule Lake. Large lake with several campsites. Must camp all nights on Brule Lake. Use only after Entry Point 41 is full. Day trips to other lakes permitted.
	43	Bower Trout lake	Gunflint/Grand Marais	Access is a 72-rod portage from small parking area into Bower Trout.
	44	Ram Lake	Gunflint/Grand Marais	Access is a 97-rod portage from the parking area.
	45	Morgan Lake	Gunflint/Grand Marais	Access is a 320-rod portage to Morgan Lake. No campsites on Morgan Lake—short portages to further lakes for campsites.
	47	Lizz & Swamp Lakes	Gunflint/Grand Marais	Access from Poplar Lake by 51-rod portage to Lizz Lake and 100-rod portage into Swamp Lake.
	48	Meeds Lake	Gunflint/Grand Marais	Access from Poplar Lake into Meeds Lake with a 220-rod portage.
	49	Skipper & Portage Lakes	Gunflint/Grand Marais	Access is a 320-rod portage from Poplar Lake or a 230-rod portage from Iron Lake.
	50	Cross Bay Lake	Gunflint/Grand Marais	Access is thru the Cross River with two portages to Ham Lake and a 24-rod portage to Cross Bay Lake.
	51	Missing Link Lake	Gunflint/Grand Marais	Access is a canoe landing at Round Lake with a 142-rod portage to Missing Link Lake.
	52	Brant Lake	Gunflint/Grand Marais	Access is a canoe landing at Round Lake with two 85-rod portages to Brant Lake.
	54A	Seagull Lake Only *	Gunflint/Grand Marais	Access is a boat landing at Seagull Lake. Large lake with several campsites. Must camp all nights on Seagull Lake. Use only after Entry Point 54 is full. Day trips to other lakes permitted.
	55A	Saganaga Lake Only *	Gunflint/Grand Marais	Must camp all nights on Saganaga Lake. Use only after Entry Point 55 is full. Day trips to other lakes permitted. Large lake with many campsites and easy access.
	57	Magnetic Lake	Gunflint/Grand Marais	Access Magnetic Lake and Granite River from Gunflint Lake.
	58	South Lake	Gunflint/Grand Marais	Access is from Gunflint Lake with a 10-mile paddle and two short portages to South Lake.
	60	Duncan Lake	Gunflint/Grand Marais	Access is from W. Bearskin Lake with a 70-rod portage to Duncan Lake and an 80-rod portage to Rose Lake.
	61	Daniels Lake	Gunflint/Grand Marais	Access is from W. Bearskin Lake with a 60-rod portage to Daniels Lake and 665-rod portage to Rose Lake.
	66	Crocodile River	Gunflint/Grand Marais	Can access Crocodile Lake from Crocodile River or East Bearskin. Must spend all nights on Crocodile Lake.
	67	Bog Lake	Tofte/Tofte	Access is a 232-rod portage into Bog Lake. Four campsites. Bog Lake does not provide access to other lakes.
	68	Pine Lake	Gunflint/Grand Marais	Access through McFarland Lake by a 2-rod portage.
	69	John Lake	Gunflint/Grand Marais	Access from Little John Lake with a 10-rod portage to John Lake.
	70	North Fowl Lake *	Gunflint/Grand Marais	Access from Little John Lake with an 88-rod and a 160-rod portage to get to North Fowl Lake. Border lake between U.S. & Canada.
	71	From Canada	Kawishiwi/Ely La Croix/Cook Gunflint/Grand Marais	Use only when trip originates in Canada, then passes into the BWCAW.
	75	Little Isabella River	Tofte/Tofte	Access is a 20-rod portage to the Little Isabella River. Several short portages before you reach the Isabella River.
	77	South Hegman Lake	Kawishiwi/Ely	Access is a 80-rod portage to South Hegman Lake.
	80	Larch Creek	Gunflint/Grand Marais	Access from the canoe landing at Larch Creek.
	84	Snake River	Tofte/Tofte	Access is a 198-rod portage to Snake River & several short portages before reaching Bald Eagle Lake.

Entry Points



METHOD OF ENTRY	ENTRY POINT NUMBER	ENTRY POINT NAME	MOTOR HORSE-POWER LIMIT	RESPONSIBLE RANGER DISTRICT & TOWN	OTHER REMARKS
OVERNIGHT Paddle or Motor	1	Trout Lake	25 HP	La Croix/Cook	Access from Vermilion Lake via a 60-rod canoe portage or 180-rod portage that allows the use of portage wheels.
	12	Little Vermilion Lake	Unlimited	La Croix/Cook	Enter from Crane Lake. Note: Not the entry point to use for Trout Lake (#1). On U.S. side motors are only allowed up to edge of Snow Bay on Lac La Croix.
	12A	Lac La Croix	Unlimited (except where paddle only)	La Croix/Cook	Enter from Crane Lake. Must camp all nights on Lac La Croix. Day trips to other lakes permitted. Use only after Entry Point 12 is full. Very difficult to reach Lac La Croix by paddle in one day. Commercial shuttle service available.
	24	Fall Lake	25 HP	Kawishiwi/Ely	Access is a boat landing at Fall Lake. Several trip options to Newton, Basswood, & Mud Lakes with additional portages.
	25	Moose Lake	25 HP	Kawishiwi/Ely	Access is an boat landing or canoe launch at Moose Lake. Many trip options for paddlers with additional portages.
	27	Snowbank Lake	25 HP	Kawishiwi/Ely	Access is a boat landing or canoe launch at Snowbank Lake. Many trip options for paddlers.
	31	Farm Lake	25 HP	Kawishiwi/Ely	Access is a boat landing on Farm Lake with access to South Farm Lake. Paddlers access North Kawishiwi River from Farm Lake. Some trip options available for paddlers with additional portages.
	54	Seagull Lake	10 HP (except where paddle only)	Gunflint/Grand Marais	No motors (use or possession) west of Three Mile Island. Large lake with several campsites. Landing at Seagull Lake.
	55	Saganaga Lake	25 HP (except where paddle only)	Gunflint/Grand Marais	No motors (use or possession) west of American Point. Access to Canada (the Crown land and Quetico Park). Large lake with many campsites and easy access.
	62	Clearwater Lake	10 HP	Gunflint/Grand Marais	Motors allowed on Clearwater Lake only.
64	East Bearskin Lake	25 HP	Gunflint/Grand Marais	Motors allowed on East Bearskin Lake only. No motors on Alder and Canoe.	
DAY USE Motor	A	Trout Lake	25 HP	La Croix/Cook	Access from Lake Vermilion via a 180-rod portage suitable for portage wheels. Commercial portage service available.
	C	Fall Lake Only	25 HP	Kawishiwi/Ely	Valid only on Fall Lake not Newton or Basswood. Access is a boat landing at Fall Lake.
	D	Fall Lake, Newton, Pipestone & Beyond	25 HP	Kawishiwi/Ely	Access is a boat landing at Fall Lake. Valid on Fall, Newton & Basswood.
	F	Moose Lk to Newfound & Sucker Lks	25 HP	Kawishiwi/Ely	Valid only on Moose, Newfound and Sucker Lakes. Travel not permitted beyond Sucker Lake.
	G	Moose Lk to Prairie Portage to Basswood (except paddle only areas)	25 HP	Kawishiwi/Ely	Commercial portage service available. Valid on Moose, Newfound, Sucker and Basswood Lakes.
	H	Snowbank Lake	25 HP	Kawishiwi/Ely	Motors allowed on Snowbank Lake only.
	I	South Farm Lake	25 HP	Kawishiwi/Ely	Motors allowed on South Farm Lake only.
	J	Saganaga Lake	25 HP	Gunflint/Grand Marais	No motors (use or possession) west of American Point. Access to Canada.
	K	Seagull Lake	10 HP	Gunflint/Grand Marais	No motors (use or possession) allowed west of Three Mile Island.
	L	Clearwater Lake	10 HP	Gunflint/Grand Marais	Motors allowed on Clearwater Lake only.
M	East Bearskin Lake	25 HP	Gunflint/Grand Marais	Motors allowed on East Bearskin Lake only. No motors on Alder or Canoe Lakes.	
OVERNIGHT Hiking	10	Norway Trail		La Croix/Cook	8 mile trail or 2 mile option. No loops.
	11	Blandin Trail		La Croix/Cook	Winter route to Lamb Lake. 2.4 miles.
	13	Herriman Lake Trail		La Croix/Cook	15 miles of trail accesses 4 lakes. Loop options.
	15	Sioux-Hustler Trail		La Croix/Cook	30 mile round trip with with loop. Primitive trail not well maintained.
	21	Angleworm Trail		Kawishiwi/Ely	Trail loops around Angleworm Lake. 12 miles. If paddling, use entry point #20.
	56	Kekekabic Trail—East		Gunflint/Grand Marais	46 mile trail that continues to the west side trail head. Rolling terrain through several lakes. Minimal use.
	59	Partridge Lake/South Lake Trail		Gunflint/Grand Marais	4 miles. If paddling use Entry Point #60.
	74	Kekekabic Trail West/Snowbank		Kawishiwi/Ely	Loop option includes 27 miles of the Snowbank trail, plus the 46 mile Kekekabic Trail that continues to the east side trail head.
	76	Big Moose Lake Trail		La Croix/Cook	No loop options. 2 miles to Big Moose Lake. If paddling use Entry Point #8.
	78	Brule Lake Trail		Gunflint/Grand Marais	Trailhead is on Forest Road 326, 1/3 mile south of the Brule Lake parking lot on the east side of the road. Parking at Brule Lake lot. Total trail distance is 7 miles.
79	Eagle Mountain Trail		Gunflint/Grand Marais	The trail is 3.5 miles to the top (one way). Provides access to Brule Lake Trail.	
81	Border Route Trail—West		Gunflint/Grand Marais	53 miles. Shorter options available.	
82	Border Route Trail—Center		Gunflint/Grand Marais	53 miles. Shorter options available.	
83	Border Route Trail—East		Gunflint/Grand Marais	53 miles. Shorter options available.	
86	Pow Wow Trail		Tofte/Tofte	30 mile loop trail.	

BWCAW Past and Present

What is Wilderness?

On September 3, 1964 The Wilderness Act was signed into law. The Boundary Waters Canoe Area Wilderness was also designated with the passing of this Act. The Wilderness Act provided a legal definition of wilderness, created the National Wilderness Preservation System, established a process to be used for designating wilderness areas, and set provisions for the use of wilderness areas. The intent of the Wilderness Act was to establish wilderness areas “for the use and enjoyment of the American people in such manner as will leave them unimpaired for future use and enjoyment as wilderness...” Legal wilderness, “in contrast with those areas where man and his own works dominate the landscape,” is “recognized as an area where the earth and its community of life are untrammelled by man, where man himself is a visitor who does not remain.” Four federal agencies manage designated Wilderness in the United States: National Park Service, the Forest Service, Bureau of Land Management, and Fish and Wildlife Service.

A civilization which destroys what little remains of the wild, the spare, the original, is cutting itself off from its origins and betraying the principle of civilization itself.

— Edward Abbey



Lake Insula 1921. Photo taken by Arthur Carhart. Courtesy Superior National Forest Collection.

Why Wilderness?

When we talk about wilderness it is important to differentiate when we are talking about wilderness based on our personal definition, wilderness as defined by non-federal land managers, and federally designated wilderness. There are now 680 federally-designated wilderness areas nationwide with a total of 106,619,208 acres.

These areas provide multiple benefits including:

- Protects watersheds and plays an important role in oxygen production, CO2 absorption, soil building, biomass decomposition, insect regulation, and filtering air pollution.
- Is a natural lab in which we can study

natural processes. Society can benefit from this scientific research as it enlarges our understanding of the world and our roles in it.

- Holds educational and training value for schools and universities. It is an important classroom for learning primitive outdoor skills such as orienteering, survival, mountaineering and stock packing.
- Has aesthetic value appreciated through intimate contact with the environment where people can experience sights, sounds and feelings they are unable to experience in other less natural settings.
- Holds, for some, philosophical and religious value. To them wilderness is a place with natural cathedrals where people can celebrate the creative forces behind life.
- Has an intrinsic value hypothesizing that plants, animals, inanimate objects and the ecosystems that they inhabit, have rights of their own to exist.



Clear Lake, 1921. (Courtesy Superior National Forest Collection)

The BWCAW Act

There has always been, and there will likely always be, controversy over the management of the BWCAW. Everyone agrees that the BWCAW is a unique natural resource and they love it. The controversy arises because they love it for different reasons.



(Courtesy Superior National Forest Collection)

What is the BWCAW?

The Boundary Waters was recognized for recreational opportunities in 1926, named the Superior Roadless Area in 1938, the BWCA in 1958, and federally designated under The Wilderness Act in 1964. It wasn't until October 21, 1978, The Boundary Waters Canoe Area Wilderness Act was established to provide specific guidance for managing the million plus acres of the Superior National Forest. The BWCAW Act was signed into law:

- to establish the Boundary Waters Canoe Area Mining Protection Area,
- for the protection and management of the fish and

wildlife of the wilderness so as to enhance public enjoyment and appreciation of the unique biotic resources of the region,

- protect and enhance the natural values and environmental quality of the lakes, streams, shorelines and associated forest areas of the wilderness,
- maintain high water quality in such areas,
- minimize to the maximum extent possible, the environmental impacts associated with mineral development affecting such areas,
- prevent further road and commercial development and restore natural conditions to existing temporary roads in the wilderness, and
- provide for the orderly and equitable transition from motorized recreational uses to nonmotorized recreational use on those lakes, streams, and portages in the wilderness where such mechanized uses are to be phased out under the provisions of this Act.

The BWCAW is and has been popular throughout time because of its unique characteristics:

- Approximately 1175 lakes varying in size from 10 acres to 10,000 acres and several hundred miles of streams comprise about 190,000 acres (20%) of the BWCAW surface area.

- BWCAW is the largest and only federal wilderness of substantial size east of the Rocky Mountains and north of the Everglades at over a million acres. BWCAW contains the largest contiguous areas of uncut forest remaining in the eastern United States.
- The BWCAW contains the highest point in Minnesota: Eagle Mountain (2,301 feet).
- BWCAW is the most heavily used wilderness in the country with approximately 250,000 visitors annually. BWCAW represents less than one percent of the acreage of the National Wilderness Preservation System (NWPS), but receives 10% of the use in the entire NWPS.



- The BWCAW is a Class I air quality area as defined by the Federal Clean Air Act. It is the only wilderness in the country that has an airspace reservation that prohibits flights below 4,000 feet.

Occasionally You May Encounter Wilderness Fire



Pagami Creek Fire Area

A lightning strike approximately 13 miles east of Ely, MN started the Pagami Creek Wildfire, within the BWCAW. The fire smoldered in a bog for several days and produced barely enough smoke to indicate its existence. In September 2011, a series of extraordinary and unusual conditions came together that caused the fire to demonstrate unprecedented behavior spreading 16 miles in one day. Although it was the largest wildfire in the Superior National Forest at approximately 93,000 acres, and the largest in Minnesota in half a century, it impacted less than 1% of the BWCAW.

Of the more than 2,100 camp sites in the BWCAW, approximately 114 campsites were affected by the fire although most received light to moderate effects. Most were reopened in 2012 after minor restoration. Closed campsites, portages and trails with the most severe fire effects will need additional site work

before reopening, and some will need more time for regeneration. Individual campsites will be posted closed. Maps showing closures can be found on the Superior National Forest website.

Be aware of changes to BWCAW entry points due to impacts from the Pagami Creek Fire. Check your entry point for important information specific to the area you are planning to travel. You may find a reduction in the number of groups allowed per day, campsites posted closed due to public safety concerns and resource protection, as well as travel.

There may be important information regarding the following entry points. Please contact the nearest Forest Service office.

#30 Lake One, #30F Lake One (NEW restricted entry point, same physical location), #34 Island River, #35 Isabella Lake, #67 Bog Lake, #75 Little Isabella River, #84 Snake River, #86 Pow Wow Trail

Entry points can lead to distant travel routes, so please check with the nearest Forest Service office for condition alerts if you think your travel plans may intersect with the fire area.

Some campsites were reopened for use, but with some cautions. Take the following precautionary measures in the burned campsites:

- Visitors will need to be aware of “snags” (charred standing trees, as well as some green trees), that look solid but the root system may have burned making them unstable.

- Bear resistant containers will be recommended in portions of the fire area since there may not be a sufficient number of trees to hang food packs.
- There will be limited firewood supplies, so bring a cook stove. Charred wood on the ground is best left to provide valuable nutrients as it decomposes and helps reduce erosion and run-off.
- Vegetation will recover more quickly by using tent pads and staying on established trails.
- Although some latrines may be exposed to view, their use is still mandatory.

Visitors will witness a changing, rejuvenating forest in the burned area over the coming years. The landscape that people were used to seeing before the Pagami Creek Fire was created primarily by similar fire events in the past.

A guiding management objective for the Wilderness is to allow natural processes, including wildfire, to play their ecological role to the greatest extent possible while minimizing potential risks to human life and private property. Historically, big forest fires used to be commonplace in this area. In fact, they're part of a natural process that revitalizes the ecosystem in this fire-dependent landscape.

Please regularly check our website at (www.fs.usda.gov/superior). Changes will be posted as progress is made.



Kawishiwi Lake. Photos Courtesy of Tom Kaffine



CAMPING AND FIRE

To Help Reduce Fire Risk in the BWCAW

Choose a camp stove instead of a campfire. If a campfire is allowed, build it in the fire grate and keep it small. Like a candle in your home, never leave a fire unattended at any time. Keep all flammable materials away from your campfire.

Always make sure your campfire is dead out before leaving your campsite, even for a short time. Drown your fire with water, extinguishing all embers, leaving it cold to the touch. Did you know that 50% of fires in the BWCAW are caused by escaped campfires?

Watch For Hazards

Keep a heads up! Weakened trees can still pose a hazard during high winds. Avoid camping around or under damaged or leaning trees. Root wads above ground may also be unstable and dangerous.

Know About Campfire Restrictions

Restrictions are implemented during high fire danger to decrease the threat of destructive wildfires. Fire restrictions are put in place for your safety and the safety of firefighters. Always check for potential restrictions just prior to your trip. Camp stoves may be required if restrictions are implemented.

For current fire restriction information contact any Superior National Forest District Office or Headquarters, (218) 626-4300, or our website at www.fs.usda.gov/superior.

Your Permit Reservation

If an entry point is closed and alternates are not available, reservation and user fees will be refunded. If the entry point is not closed and you choose not to use your reservation because there is a fire, you will not be refunded the reservation fee and user fees may be retained if inside the cancellation window.

If You See Or Smell Smoke, Don't Panic

The fire may be miles from you and pose no threat to your safety.

If you encounter a wildfire as you travel in the BWCAW, follow these steps:

1. Watch The Weather

Wind — Most fires travel north and east or with the prevailing wind. Make sure you have a safe route to follow if wind direction changes. Keep in mind that strong winds can carry fire embers causing spot fires ahead of the original fire.

Evening Humidity — Humidity increases in the early morning and late evening. Fire activity may decrease with higher humidity making travel safer at these times.

Tall Smoke Plumes — Large plumes indicate a very hot fire. If you see or experience a large smoke plume close to you, take precaution; seek a point of refuge such as a lake.

2. Make A New Plan

Look at alternate travel routes staying close to larger bodies of water. If it is safe, consider traveling out of the fire area. If you must travel through burned areas watch for burned snags and hot stump holes which could be hazardous.

3. Find A Safe Place

If you feel threatened find a large lake. Keep away from the fire's path. If the fire is upon you, don't panic. Put on your life jacket and take your canoe into the water. Paddle to the middle of the lake, tip your canoe and go under it. You can breathe the cool trapped air under your canoe until the fire passes.

Protecting Your Natural Resources

Fisheries

The Superior National Forest has 695 square miles of surface water and more than 2250 linear miles of streams that offer a wide range of fishing opportunities in all seasons. Coldwater game species include brook, brown, rainbow and lake trout, splake, and whitefish. Warmwater game species include walleye, largemouth and smallmouth bass, pike, musky, and panfish. We maintain various types of fishing access that range from barrier free fishing to backcountry fishing in the BWCAW. Some lakes and streams within the Superior National Forest have special regulations, so always check the Minnesota DNR fishing regulations when you plan your trip.

Stocking

Limited stocking occurs in BWCAW lakes and they are stocked primarily with brook trout, lake trout and walleye. Lake Trout and Brook Trout populations can be very susceptible to overfishing; for example, some brook trout lakes may not support more than 100 to 150 catchable-sized fish at any one time. They require regular stocking to maintain a fishable population.

What You Can Do

Care for the fish, their aquatic habitat, and their terrestrial neighbors. Regulations are meant to ensure sustainable fish populations and healthy lakes and rivers.

- Practice catch and release, even when you are within the allowable catch.
- Handle fish gently, quickly, and in the water.

Our fisheries program focuses on adaptive management principles. Current projects include improving spawning habitat for native fishes, improving habitat for freshwater mussels and aquatic insects of special concern, and improving our transportation system to improve and protect native aquatic species. We work in collaboration with several agencies to accomplish our management objectives and discuss employing the minimum tool necessary to administer the area as wilderness. Through this effort we hope to ensure and maintain healthy aquatic resources on the Superior National Forest.

- To prevent the spread of aquatic invasive species, do not use non-native exotic species as bait.
- Keep fish horizontal for pictures.
- If you plan to keep a fish, kill it right away.
- Be prepared to keep the gutted fish on ice.
- Don't kill fish you find undesirable — what's trash to you may be treasure to somebody else, and an important part of the ecosystem.
- When ice fishing, never use anti-freeze on or near lakes or waterways.

- Choose lead-free tackle. Lead poisoning from ingesting lead sinkers and jigs is a significant cause of death among loons, and there may be other adverse effects on aquatic ecosystems and ultimately humans.

- Leaving fish remains along shore can alter natural behaviors, expose animals to predators, cause stress, and even cause unnatural fluctuations in numbers, as with increased gulls in some areas. Scatter remains back in the woods away from the shore or camping areas.



Large Groups

If you are planning a trip for a non-profit organization, there is a limit of no more than 3 permits in a season to be reserved using the non-profit organization name as the group leader. Please contact any Superior National Forest office for more information, or visit www.recreation.gov under general rules for the BWCAW.

Keep these tips in mind when planning for large groups to reduce environmental and social impacts:

- If your group is more than nine people, no matter what the age, you may not enter the BWCAW. You should consider other options, such as camping at a primitive or developed campground and boating on lakes outside the designated wilderness area.
- If your group of more than the maximum size wishes to break into smaller groups to enter the BWCAW, each smaller group must have its own permit.
- Each group should have an adult who will be responsible for the leadership and safety of the group.
- Each group must travel and camp separately. This means each should have its own food, first aid kit, and essential gear. To make it easier for the groups

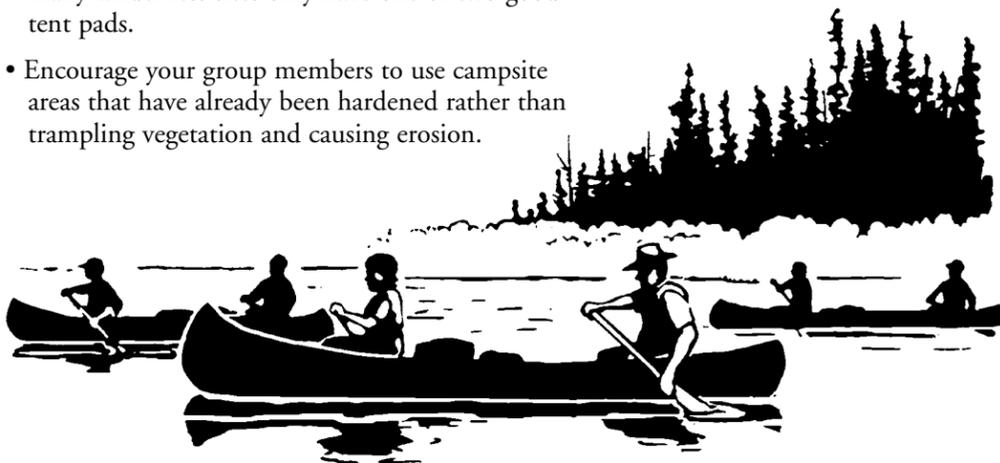
to travel separately, consider reserving different entry points or planning separate routes.

- And if you do know other visitors in the area, don't purposely congregate in a group larger than 9 while traveling, visiting a destination area, or camping.
- Portages and waterways can become very congested. Wait for another group to cross the portage before you begin, portage your gear efficiently, and find another place for your break. Keep your distance from other groups on the waterways.
- Begin looking for campsites early in the day, since many wilderness sites only have one or two good tent pads.
- Encourage your group members to use campsite areas that have already been hardened rather than trampling vegetation and causing erosion.

Noise

Being considerate of other wilderness visitors is one of the 7 Leave No Trace Principles. A courteous group can do wonders to minimize the impact of noise. Sound carries a long distance over water, mostly in the evening when people are listening more than moving. Try to avoid banging pots and pans, dragging canoes over rocks, shooting guns, singing loudly, and screaming, especially in the morning and evening. If your group is rambunctious, consider staying in a more isolated area such as a lake with

only one campsite. When you keep noise down, your group and others will have a better chance of experiencing wildlife and a sense of solitude.



Heritage Resources

Leave No Trace wilderness principles apply not only to the natural environment but also to archaeological resources. Over 1,200 archaeological sites have been identified within the Boundary Waters Canoe Area Wilderness. These sites include Native American rock art, stone tools and pottery sherds, glass beads and fur-trade artifacts, and mining and logging camps. These sites provide us with a fascinating window into the history of human use of the Boundary Waters over the past 10,000 years. However archaeological materials are a non-renewable resource and must be protected. Once an artifact is removed from its context within a site we lose much of the valuable

information it can provide us about who was using the site, when, and for what. Respect cultural resources as you would natural resources. If you come across an archaeological site do not remove or disturb artifacts. Excavating, defacing, or removing an archaeological resource from federal lands without a permit is a crime, punishable by fines or imprisonment. Write down a description of what you found, including the location, and report it to Forest Service personnel. Photos, sketches, maps, or GPS information are all useful information to include when describing archaeological finds.



View of a prehistoric Knife Lake Siltstone biface identified within the BWCAW. Bifaces are considered 'preforms' that have been flint knapped on both sides, are easily transported, and can be eventually worked down into spear points

Protecting Your Natural Resources

Non-Native and Invasive Species

Non-native invasive species (NNIS) are plants, animals, insects or other organisms whose introduction to an area cause or are likely to cause economic or environmental harm or harm to human health. Other names for NNIS include exotic species, noxious weeds, pests, etc. Invasive species can occur on land or in the water. Some examples in Minnesota include purple loosestrife, gypsy moth, emerald ash borer, Eurasian water milfoil, earthworms, spiny water flea, rusty crayfish and orange hawkweed. 

Because invasive species do not respect property lines, we are working with other agencies, non-governmental organizations, and citizens like you to increase awareness of this resource management issue and take action to stop the spread of NNIS in our area. For more information about invasive species in Minnesota, go to the MN Department of Natural Resources website at "<http://www.dnr.state.min.us/invasives/index.html>"

Prevention:

- Clean your gear/boat before entering and leaving the wilderness or recreation site.
- Remove mud and seeds from clothes, pets, boots, gear and vehicles.
- Burn only local or certified firewood.



Stop Aquatic Invaders

The introduction of aquatic invasive species (AIS), such as spiny waterflea and rusty crayfish, to new water bodies negatively impact native organisms in some lakes and rivers. To prevent the spread of AIS, visitors should inspect their equipment, remove mud and aquatic vegetation, and lay their equipment out to dry when possible. In accordance with Minnesota law, bait containers and other water containing devices must be drained before leaving a water body (this excludes devices such as water bottles)."

Q. How do I prepare my boat or canoe for the water?

A. Inspect your watercraft, motor, and trailer for aquatic plants, zebra mussels and other prohibited species from your boat or canoe and remove any that you find. State law prohibits placing your watercraft, trailer, or equipment with aquatic plants, zebra mussels, or invasive species into the water. For a list of prohibited invasive species and invasive species laws, visit <http://www.dnr.state.mn.us/invasives/laws.html>."

Q. What should I do when leaving a lake or river?

A. Inspect your watercraft and equipment and remove any aquatic plants or animals. Remove drain plugs, open water draining valves, and drain portable bait containers before leaving the water access.



Top: **Zebra mussels**
(courtesy of F. Lamiot)
Right: **Eurasian water milfoil**
(courtesy of Kristian Peters)

Q. How long does the drain plug need to be removed?

A. Keep the drain plug out and water draining devices open the entire time that a boat is being transported.

Q. How do I dispose of unwanted bait?

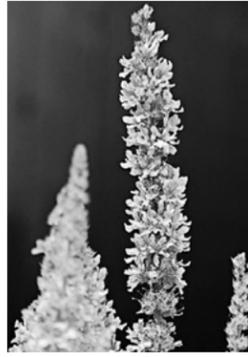
A. State law prohibits dumping unused bait into waters of the state. Dumping bait on the ground is considered littering. Therefore, unwanted live bait should be placed in the trash, disposal bins, or compost bins.

Q. What do I do with bait containers?

A. The law requires all water to be drained from portable bait containers before leaving the water access, including from bait containers that have not been placed in lake or river water.

Q. How can I comply with draining portable bait containers when portaging from one lake to another?

A. If you are portaging a canoe or other watercraft, you will need to drain the water from the bait container on land where it won't drain into any water body and refill the bait container with water from the new water body.



Purple Loosestrife



Orange Hawkweed



Spotted Knapweed



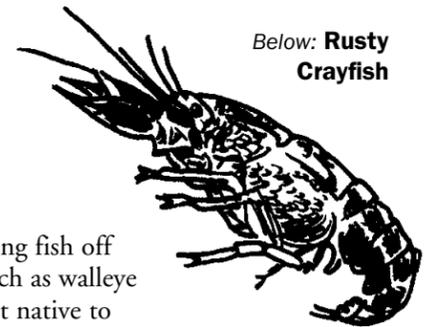
Leafy Spurge

Q. After draining water from bait containers can I keep unused bait?

A. Anglers can keep unused bait after draining their bait containers. You can replace the water in portable bait containers with tap or bottled water before transporting the bait. Some angling related businesses have developed products to help transfer bait from a bait container in the boat to a container in a motor vehicle without the water.

Q. Is there a new law requiring an invasive species trailer decal?

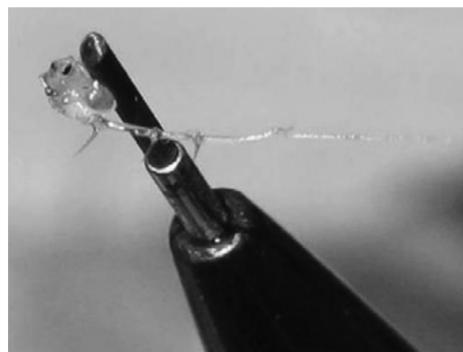
A. Yes. Beginning in 2015 there is a new trailer decal requirement that is scheduled to start. The new law passed in April, 2012 will require anyone who transports watercraft or water-related equipment with a trailer to complete an online education course. After completing the course, the person will receive a decal that must be placed on their trailer, certifying they have taken the course. People taking the course can receive extra stickers if they own or use multiple trailers for watercraft or water-related equipment. The DNR will develop the online AIS course in the future for implementation of the new decal requirement in 2015. When that law becomes effective, a warning rather than a citation can be issued to boaters who do not display the decal.



Below: **Rusty Crayfish**

The following are Prohibited:

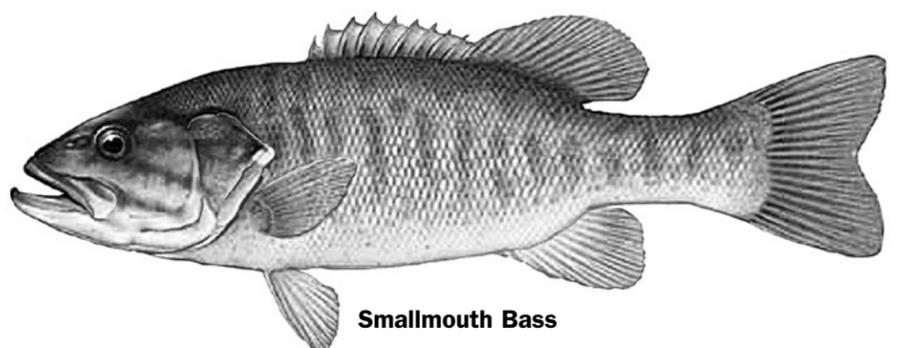
- Moving fish from lake to lake by releasing fish off of stringers (Many common species, such as walleye and smallmouth bass are themselves not native to large areas of the BWCAW)



Above: **Spiny Waterflea**

- Using live minnows on designated stream trout lakes, including those in the BWCAW
- Disposing of earthworms in the forest. A person must not dispose of bait in waters of the state. (84 D.10, subd. 4.). Dump all unwanted bait in the trash.

Unlike much of the U.S., the Arrowhead Region and the Superior National Forest are fortunate because many of the species that are a problem in the upper Midwest are not well established here yet. However, terrestrial and aquatic NNIS can quickly spread once introduced into the environment. NNIS can spread via air, water, and on watercraft, equipment, firewood and even the mud on your boots.



Smallmouth Bass

Special Uses

About the Program

The Forest Service manages over 192 million acres of national forests and grasslands that comprise the National Forest System (NFS). Today, our growing population and mobile society have created a demand for a variety of uses of these federal lands. Often these diverse needs require specific approval. The Forest Service provides services that support our national policy and federal land laws. The Agency's special-uses program authorizes uses on NFS land that provide a benefit to the general public and protect public and natural resources values. Currently there are over 74,000 authorizations on the NFS lands for over 180 types of uses.

Each year, the Forest Service receives thousands of individual and business applications for authorization for use of NFS land for such activities as water transmission, agriculture, outfitting and guiding, recreation, telecommunication, research, photography and video productions, and granting road and utility rights-of-ways. The Forest Service carefully reviews each application to determine how the request affects the public's use of NFS land. Normally, NFS land is not made available if the overall needs of the individual or business can be met on nonfederal lands.



When Do I Need a Filming or Photography Permit for National Forest Land?

Personal use

If you are shooting still photographs or 'home movies' for personal use (i.e. that does not involve advertisement of a product or service, the creation of a product for sale) then a special use permit is not required.

Commercial Filming

A special use permit is required for all commercial filming activities on National Forest System lands. Commercial filming is defined as the use of motion picture, videotaping, sound recording, other moving image or audio recording equipment on National Forest System lands that involves the advertisement of a product or service, the creation of a product for sale, or the use of actors, models, sets or props, but not activities associated with broadcasts for news programs. For purposes of this definition, creation of a product for sale includes but is not limited to a film, videotape, television broadcast or documentary of historic events, wildlife, natural events, features, subjects or participants in a sporting or recreation event and so forth, when created for the purpose of generating income.

Commercial or still photography will not be permitted if the Forest Service determines that any of the following criteria apply (designated wilderness has separate criteria):

- There is a likelihood of resource damage that cannot be mitigated.
- There would be an unreasonable disruption of the public's use and enjoyment of the site (beyond short term interruption).
- The activity poses health or safety risks to the public that cannot be mitigated.

What Are the Criteria for Commercial Filming in Designated Wilderness?

Proposed commercial activities in designated wilderness areas, such as the Boundary Waters Canoe Area Wilderness, are reviewed for compliance with existing regulations and acts (Wilderness Act of 1964 and the BWCAW Act of 1978). Commercial filming activities may be allowed in wilderness if it is proper for realizing wilderness management goals of the area, but filming outside the designated wilderness should first be considered. In general, the Forest Service will authorize commercial filming or photography activities within designated wilderness areas only when all of the following apply, and there is still no guarantee of a permit:

- The Proponent can adequately demonstrate that a wilderness setting is required.
- No reasonable alternative exists to achieve the same effect on either NFS land or other ownership outside of wilderness.
- Expected impacts to wilderness resources will be negligible.
- The Proponent will accept the terms, conditions, restrictions or limitations the Forest Service may require for wilderness management and protection.
- Forest Service regulations require authorized aircraft flying over the BWCAW to maintain a minimum altitude of 4000 feet above ground level.

If you have further questions concerning this use, please call the Superior National Forest.

You cannot get through a single day without having an impact on the world around you. What you do makes a difference, and you have to decide what kind of difference you want to make.

— Jane Goodall

Research and Monitoring

During the summer, you may notice people working on various lakes in the BWCAW. They may be other land management agencies, universities, or research stations. The information gathered is used to develop long term resource management strategies. Use of motorized equipment or transportation in the non-motorized areas of the BWCAW will be limited to what is necessary.

Who Needs an Outfitter/Guide Permit?

All individuals or organizations including non-profit organizations conducting outfitting and/or guiding activities on National Forest Land or adjacent waters should make an inquiry as to whether or not such activity would be properly classified as "commercial". This includes anyone assisting others in providing outdoor recreation experiences on the Superior National Forest. Some examples are: commercial guides, church or youth groups, ski instructors, bus tours, or canoe liveries. If commercial, such activity may only be conducted after applying for and receiving an Outfitter/ Guide Permit. If there is no charge, fee, donation or tuition related to the program activity and if the group leader is not paid, an Outfitter/Guide permit may not be required. A Forest Service representative will make the decision on whether a permit is needed. For more information, visit www.fs.usda.gov/superior, "Passes and Permits" or call the Forest Service.

Air Quality

Measuring Air Pollution Across the Forest

Monitoring the air and precipitation helps us measure air pollution. Along with monitoring the health of the Forest we can then determine when air quality is a problem and identify actions to reduce harmful effects.

Poor Visibility Or Regional Haze

Unfortunately, the beauty of the scenes in our National Wilderness Areas can be diminished by haze. Haze can reduce the distance you see and even change the apparent colors and textures of the landscape. Recognizing the importance of visual air quality, Congress passed legislation to fix this problem through research and emission reductions from pollution sources. Natural haze caused by fog can decrease visibility, but the addition of air pollution makes visibility worse. Our air monitoring shows us that air emissions from human activities reduce the visibility on an average day to about 60% of what it would be under natural conditions. We also know that, just as with acid rain, sulfates and nitrates are the main causes of poor visibility.

Acidity Of Rain And Snow

The Superior National Forest is home to one of over 200 sites spanning the continental United States, Alaska, Puerto Rico, and the Virgin Islands that sample rain and snow weekly to check its chemistry. Precipitation that falls here has higher than natural levels of acidity, but at this time, is not thought to be dangerous to the forest. Sulfates and nitrates are the two main sources of acid rain. Sulfate pollution is primarily due to coal combustion while nitrate pollution is from all fuel burning activities, especially automobiles. Sulfate pollution has been decreasing due to state and federal air pollution control regulations while nitrate pollution has been increasing.

What You Can Do

- Conserve Electricity and Fuels

Most air pollutants come from transportation and the generation of electricity. People are driving more miles and using more electricity each year. If you can save gas and reduce your electrical use, our air quality will be better and your National Forest will be healthier.

- Learn About Air Pollution

It is important for you to know that even if you live hundreds of miles away, your actions can affect the air quality here on the Superior National Forest. Air masses travel long distances over a number of days and along their path they pick up air pollution from industrial and populated areas and carry it to the Forest. The more you know the more you can do to reduce air pollution. See information about air quality monitoring on the Superior National Forest website.

- Pack Out Your Trash

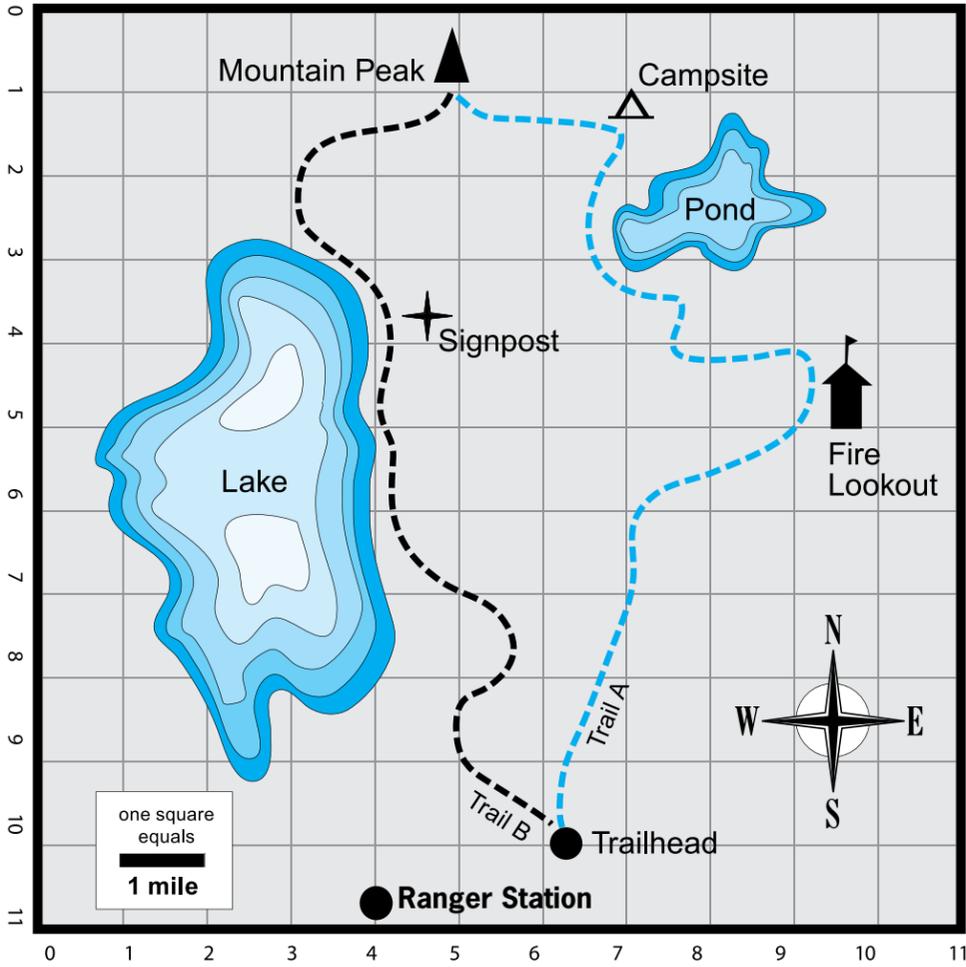
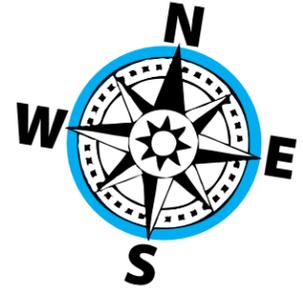
State law does not permit the open burning of oils, rubber, papers/packaging, plastics, chemically treated materials or other materials that produce noxious smoke. Burning waste, in a campsite or in your backyard, can cause severe health problems and pollute air, soils and water due to carcinogens like dioxin.



Youth Activity Page

Using a Map and Compass

Maps always have a symbol for north; compasses have a needle that points north. As you stand on a trail with your map and compass, line up north on the map with the north on the compass. North is one of the four cardinal directions. Once you are facing north you can find the other three cardinal points. South is behind you, east is to your right, and west is to your left.



Measuring Distances on a Map

In a national forest, a map will help you figure out distances from one place to another. Use the map at the left to figure out distances for an imaginary hike. First, locate the Ranger Station. This is where you'll start from. Then, find the Trailhead.

Use the map scale (1 square equals 1 mile) and the cardinal directions to answer the questions below:

- From the Ranger Station to the Trailhead is about:
 - 1 mile
 - 2 miles
 - 5 miles
 - 10 miles
- From the Trailhead to the Fire Lookout is about:
 - 1 mile
 - 2 miles
 - 4 miles
 - 5 miles
- What direction is the Lake from the Fire Lookout?
 - west
 - east
 - north
 - south
- From the Fire Lookout to the Campsite is about:
 - 1 mile
 - 2 miles
 - 5 miles
 - 10 miles
- To get from the Mountain Peak Trail back to the Trailhead you would primarily travel in what direction?
 - west
 - east
 - north
 - south
- From the Mountain Peak to the Trailhead is about?
 - 1 mile
 - 2 miles
 - 5 miles
 - 10 miles

1 = b; 2 = d; 3 = a; 4 = c; 5 = d; 6 = d.

Word Search Puzzle

Find the hidden words and circle them. The following words can be found horizontally, vertically, and diagonally.

- Flashlight
- Canoe
- Map
- West
- North
- Hiking
- Bearbag
- Permit
- Compass
- Motor
- Paddle
- Tent

G	P	E	R	I	T	T	P	F	F	R
H	C	F	A	K	G	E	G	I	L	Q
I	X	C	O	M	P	A	S	S	A	L
K	H	A	E	T	B	N	P	T	S	W
I	W	N	P	R	N	O	K	C	H	E
N	J	O	A	O	T	E	N	T	L	S
G	R	E	D	L	S	T	R	M	I	T
W	B	Y	D	Z	M	A	P	J	G	F
S	M	U	L	R	O	B	S	U	H	A
P	O	D	E	M	O	T	O	R	T	B
X	Y	M	R	N	O	R	T	H	S	E

Activity sheet provided by the National Symbols Program, www.symbols.gov.

National Forest Scramble

Unscramble the names of some of our spectacular National Forests! Then, correctly match each National Forest with its location.

- | | |
|---------------------|------------------|
| 1. SELIW NAD KLRAC | A. Colorado |
| 2. LAIDNE NOBOE | B. New Hampshire |
| 3. ORI ERNDGA | C. Puerto Rico |
| 4. HTEIW NATMOEUSIN | D. Florida |
| 5. BCRANBIE | E. Kentucky |
| 6. OALCESO | F. Montana |

1 = F. Lewis and Clark; 2 = E. Daniel Boone; 3 = A. Rio Grande; 4 = B. White Mountains; 5 = C. Caribbean; 6 = D. Osceola

Your User Fees At Work!

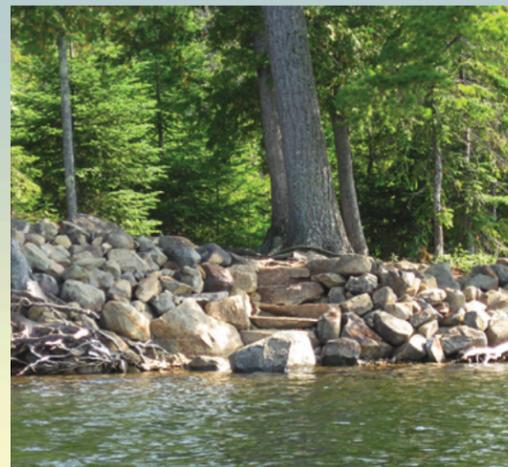
An increasing number of people recreate on Forest Service managed lands every year, yet funding does not keep pace with the existing need. Meeting the increasing needs of these visitors; delivering quality recreation, heritage and wilderness opportunities; and protecting our natural and cultural resources can be challenging. Your overnight permit fees go directly back to the BWCAW to maintain and improve natural resources, recreation facilities, and services including:

- BWCAW visitor education videos are part of a visitor's wilderness experience. A short video is shown to visitors when they pick up their wilderness permit and reviews rules and regulations. A long version is available from the Forest Service for those in the pre-trip planning stage.
- Additional seasonal staff for increased field maintenance and restoration work, assistance at contact stations and law enforcement training for routine back-country patrols.



Crews conducting rehabilitation work.

- Campsite improvements such as transplanting native vegetation to encourage campsite recovery, improving tent pads, naturalizing illegal sites, cleaning and repairing fire grates, latrine replacement, hazard tree removal, non-native species removal and erosion repair and prevention.
- Winter dog sled program as a means of transporting equipment and/or supplies needed to complete maintenance work on campsites, portages and trails as well as for public user education and law enforcement contacts. This helps prevent the need for using motorized transport.
- Portage and hiking trail improvements such as clearing brush and fallen trees, installing water barriers to prevent erosion and repairing trail tread and bridges.



Campsites are inspected and rehabilitated for resource protection.

Top: Before rehabilitation
Bottom: After rehabilitation

BWCAW Permit Issuing Stations/Cooperators*

Aurora Area

Forest Service Office – Aurora

Cook/Orr Area

Forest Service Office – Cook
Anderson Canoe Outfitters
Fortune Bay Resort Casino
Voyageurs Lutheran Ministry
Zup's Fishing Resort & Canoe Outfitters

Duluth Area

Forest Service Office – Superior National
Forest Supervisor's Office
The Canoeist, in Two Harbors
Duluth Pack Store – Duluth

Tofte/Isabella Area

Forest Service Office – Tofte
Forest Service Work Station – Isabella
Beaver Bay Sports Shop
Knotted Pine Inn

Maple Grove Motel & Bait Shop
Sawbill Canoe Outfitters
Sawtooth Outfitters

Grand Marais/Gunflint Area

Forest Service Office – Grand Marais
Adventurous Christians
Bearskin Lodge
Bear Track Outfitting Co.
Boundary Country Trekking
Clearwater Canoe Outfitters
Gunflint Northwoods Outfitters
Gunflint Pines Resort
Hungry Jack Canoe Outfitters
Nor'Wester Lodge
Rockwood Lodge & Outfitters
Seagull Canoe Outfitters
Seagull Creek Fishing Camp
Tuscarora Outfitters
Voyageur Canoe Outfitters
Way of the Wilderness

Wilderness Canoe Base
YMCA Camp Menogyn

Ely Area

Forest Service – Kawishiwi
Ranger District, Ely
Big Lake Wilderness Lodge
Boundary Waters Guide Service
Camp Voyageur, Inc.
Canadian Border Outfitters
Canadian Waters, Inc.
Canoe Country Outfitters
Cliff Wold's Canoe Trip Outfitting Co.
Custom Cabin Rental
Duane's Outfitters
Echo Trail Outfitters
Ely Outdoors Co.
Jordan's Wilderness Shop & Outfitters, Inc.
Kawishiwi Lodge & Canoe Outfitters
Land of Lakes - Girl Scouts
LaTourell's Resort & Outfitters

Lodge of Whispering Pines
Moose Track Adventures
North Country Canoe Outfitters
Northern Tier BSA
Outward Bound Wilderness
Packsack Canoe Trips & Log Cabins
Piragis' Northwoods Co.
River Point Resort & Outfitting Co.
Smitty's on Snowbank
Spirit of the Wilderness Outfitters
Timber Trail Lodge & Outfitters
Voyageur North Outfitters
White Iron Beach Resort
Wilderness Outfitters
Wilderness Wind, Inc.
Williams & Hall Wilderness
Guides & Outfitters
YMCA Camp Widjiwagan

*A cooperator is a business that has an agreement with the Forest Service to issue BWCAW permits at their location.

For More Information

BWCAW Reservation Center

PO Box 462
Ballston Spa, NY 12020
877-444-6777
www.recreation.gov

Forest Service Offices

Forest Supervisor's Office

8901 Grand Avenue Place
Duluth, MN 55808
(218) 626-4300
www.fs.usda.gov/superior

Gunflint Ranger Station

2020 W. Highway 61
Grand Marais, MN 55604
(218) 387-1750

Isabella Work Station

3989 Forest Service Dr.
Isabella, MN 55607
(218) 323-7722

The USDA Forest Service is an equal opportunity service provider. REVISED 2/13

People who are deaf or hard-of-hearing call 800-627-3529 or 711

Kawishiwi Ranger Station

1393 Hwy 169
Ely, MN 55731
(218) 365-7600
(218) 365-7561 (5/1-9/30)

La Croix Ranger Station

320 N. Hwy 53
Cook, MN 55723
(218) 666-0020

Laurentian Ranger Station

318 Forestry Road
Aurora, MN 55705
(218) 229-8800

Tofte Ranger Station

Box 2159
Tofte, MN 55615
(218) 663-8060

Travel to Quetico

Quetico Provincial Park
District Manager
Ministry of Natural Resources
Atikokan, Ontario POT 1CO
(807) 597-2735
www.ontarioparks.com

In Case of Emergency

In case of emergency or if search and rescue assistance is needed, call 9-1-1 or the nearest county sheriff's office.

Cook County Sheriff

Grand Marais/Tofte area (218) 387-3030

Lake County Sheriff

(800) 450-8832 — In Minnesota

St. Louis County Sheriff

Ely/Cook area
(218) 749-6010

National Park Service

Grand Portage National Monument

170 Mile Creek Road
Grand Portage, MN 55605
218-475-0123
www.nps.gov/grpo

Voyageurs National Park

360 Hwy 11 East
International Falls, MN 56649
218-283-6600
www.nps.gov/voya

Customs and Immigration

Canadian Immigration

If calling from the U.S.: 1-613-944-4000
(807) 274-3815
www.cic.gc.ca

Canadian Customs

(807) 274-3655

U.S. Customs

(218) 720-5203
www.cbp.gov

U.S. Department of Homeland Security

1-202-282-8000
www.dhs.gov/crossing-us-borders

U.S. Immigration

(218) 720-5207
www.dhs.gov

MN Dept. of Natural Resources

License Bureau

500 Lafayette Road
St. Paul, MN 55155-4026
(651) 296-2316—Metro area
(800) 285-2000—In Minnesota
DNR General Information:
888-646-6367
www.dnr.state.mn.us