

OKPIK ADVISOR PLANNING GUIDE 2017-2018



NORTHERN TIER HIGH ADVENTURE PROGRAMS
BOY SCOUTS OF AMERICA

“Delivering Wilderness Adventure That Lasts a Lifetime”

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Welcome!

For over forty years the Okpik program of Northern Tier National High Adventure Programs has provided safe, exhilarating and challenging adventures for thousands of youth and adult participants. The name, Okpik, comes from the Inuit word for the Arctic or Snowy Owl which has been used as the symbol for the Okpik program since it began in the early 1970's.

Okpik Participants learn how to cross-country ski, snowshoe, dogsled, ice fish, build snow shelters and enjoy life in extreme weather conditions and temperatures. All groups are accompanied by a trained staff instructor, called an Interpreter, who serves as a teacher of cold weather camping skills. The Okpik program fully outfits crews with group gear and almost all necessary personal clothing (see the included [gear list](#)). The goal of the Okpik program is to instruct crews on how to see low temperatures as an opportunity, not a barrier, to turn a 3-season camper into a year-round camper.

Okpik is hosted at the Ely base of Northern Tier, outside of Ely, Minnesota. Crews explore the Superior National Forest and the famed Boundary Waters Canoe Area Wilderness ([BWCAW](#)), a massive wilderness area that lies directly adjacent to the base property. No city lights, no noise, simply wilderness.

Okpik is the premier Cold Weather Camping Program of the Boy Scouts of America. We are excited by your interest in cold weather camping and we look forward to introducing you to the wonders of a North Woods winter.

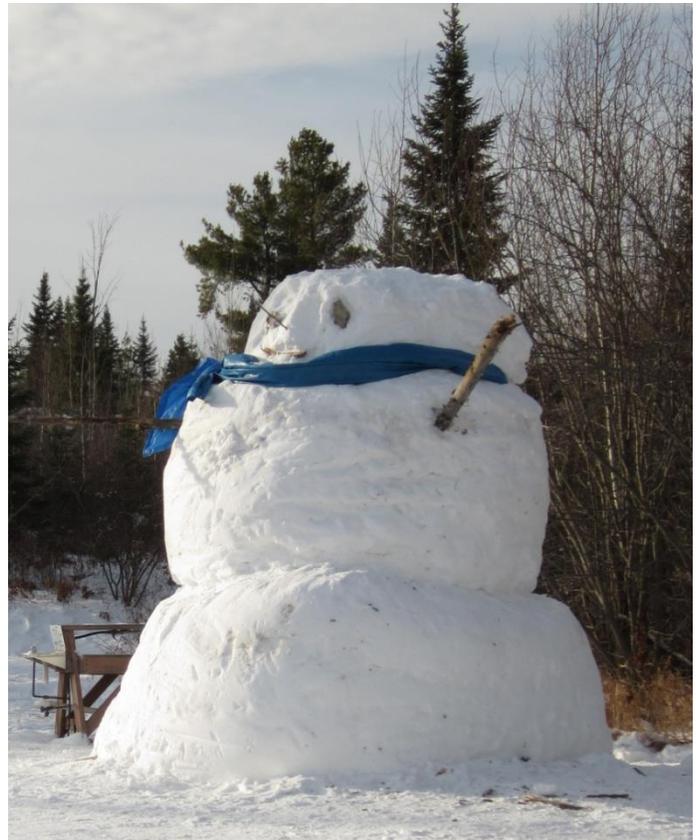
Pronunciation Guide

Ely - Ee lee

OKPIK - Ook pick

Bizhiw - Bee zhoo

Quinzhee - Quin zee



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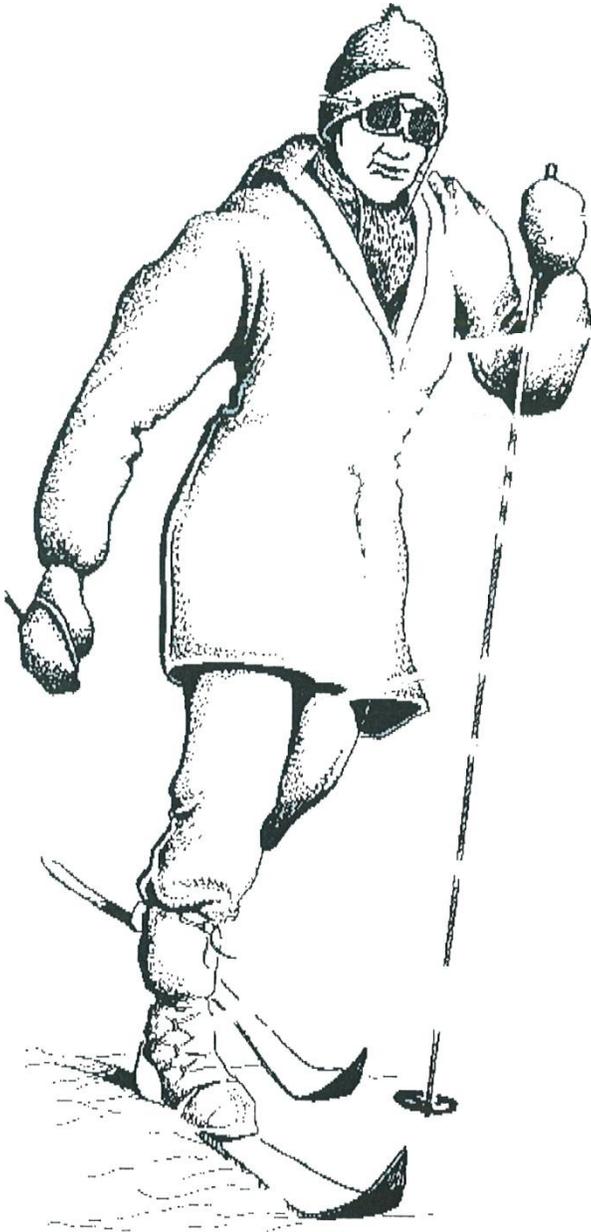
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LET'S GET IT STARTED



WHY WINTER CAMP?

Many people do not know how to enjoy the winter, finding it an unpleasant season to be survived only by the grace of the hefty insulation of a house. However, for the initiated, winter is one of the best seasons to be outdoors.

For those intrepid enough to brave the icy conditions, greater solitude awaits. The crowds of the summer ebb out, and lakes become quiet and intimate. One doesn't hear the hum of the bugs in the winter (some claim the lack of mosquitoes is the best part of winter). Instead there are the howling of the wolves and the silence of the snow-dampened wilderness.

New activities abound in the winter and permit access to areas of the wilderness that are rarely visited in the summer. At Okpik, scouts snowshoe over swamps and bogs, cross-country ski on our groomed trail system, dogsled far out into the wilderness or build their own warm, insulating structure out of snow. Almost everyone tries something new at Okpik—and almost everyone develops a new fascinating and thrilling skill.

We believe that every participant in our Okpik program will be entranced by the glittering light of the sun on the snow, of the brilliance of the night stars, by the clear cut tracks of the moose and wolf and by the simplicity and quietude of the still winter world. The Okpik program is designed to introduce anyone to these joys, and to teach them how to thrive in perfect comfort as they navigate the exciting challenges of winter camping.

WHAT ARE THE RISKS? (RISK ADVISORY)

The Northern Tier National High Adventure Programs have an outstanding safety record. The Boy Scouts of America and Northern Tier emphasize safety through education and strict adherence to established policies and procedures. The safety of your group is dependent upon your attention to these procedures as well as being physically fit, properly equipped and trained for the rigors of cold weather camping.

Northern Tier and the Boy Scouts of America's policies and procedures, if followed, will minimize these risks as much as possible. Parents, leaders and participants should be advised that despite our best attempts at risk management, it is not possible to remove **ALL** risk from a cold weather wilderness expedition.

- Possible risks include (but are not limited to) motor vehicle accidents; severe weather conditions such as extreme cold temperatures and high winds; medical conditions such as heart attack, appendicitis, hypothermia, dehydration, frost bite, severe allergies and asthma or diabetes related conditions; accidents such as cuts, embedded fish hooks, burns or falls; risks associated with being on frozen lakes and encounters with wildlife.
- Medical evacuations and search and rescue services are coordinated by Northern Tier in close cooperation with local authorities.
- Please carefully read the information in this Okpik Advisor Planning Guide and **share it with your crew(s), leaders and parents**. If you have any further questions about risk management contact Northern Tier by phone 218.365.4811 or email info@ntier.org

HOW DO I PREVENT PROBLEMS?

- **KNOW FIRST AID** - Make sure your crew is trained in First Aid and carries the required first aid kit. At least one advisor in each crew must be currently certified in [CPR and Wilderness First Aid](#).
- **PURIFY ALL DRINKING WATER** - All water from natural sources **must** be purified by bringing it to a rolling boil or through use of a water purification filter. Chemical treatments are less effective in the cold.
- **TOBACCO** - It is strongly suggested that adult participants limit the use of tobacco on the trail. Smoking is not permitted in the presence or vicinity of youth, tents, Northern Tier buildings, BSA vehicles or near maintenance areas; only in designated areas on base.
- **ALCOHOL AND DRUGS** - Possession or use of alcoholic beverages, illegal drugs or the misuse of prescribed drugs is prohibited. Groups or individuals found in violation of this National BSA policy will be sent home, as arranged with the council office or parent.
- **ABUSE** - Physical, sexual or emotional abuse (including hazing) of a camper by his or her peers or by an adult leader is unacceptable anywhere. Local, county and state authorities as well as the BSA council representative will be contacted if abuse is suspected.
- **PRESCRIPTION DRUGS AND MEDICATION** - If an advisor or crew member is on regular medication, their physician should be consulted. Be sure to consult your physician to determine the effect cold weather may have on your medications (i.e. inhalers or epinephrine) or effects your medications may have on you in cold-weather conditions.

WHAT ARE THE POLICIES?

ADULT LEADERSHIP - A minimum of two adults (one of which must be at least 21 years of age and registered with the BSA) is required for each crew. There are no gender restrictions for leadership except for co-ed Venturing crews, which must have both male and female leadership 21 years old or older.

ADULT LEADERSHIP TRAINING – All adult participants are required to present proof of BSA [Youth Protection](#) training upon arrival at Northern Tier. At least one adult in each crew must have proof of current [CPR](#), [Wilderness First Aid](#) and [Weather Hazards](#) training.

BSA HEALTH AND MEDICAL RECORDS – All Northern Tier participants must present a current (within one year of the end date of your trip) [BSA Health and Medical Record](#), signed by a doctor, upon arrival to base. Youth must have a parent or guardian signature as well. This form is available online at <http://www.ntier.org/>.

YOUTH PARTICIPATION REQUIREMENTS - All youth must be registered as a Boy Scout, Varsity Scout or Venturer.

AGE REQUIREMENTS – Age requirements vary for each Okpik program option. To participate in Okpik Cabin Stay youth must be a registered Boy Scout, Varsity Scout or Venturer. Youth participants in all other Okpik programs must be 14 years old or in the 8th grade during their trip.

OTHER GENERAL INFORMATION

CAMPERSHIPS – Youth with extenuating financial circumstances who are participating in an Okpik program may apply for funding assistance to attend Okpik. [Camperships](#) are determined on a need basis. The campership application is found on our website at <http://www.ntier.org/>. The completed [application form\(s\)](#) and other required documents must be returned by mail to Northern Tier no later than November 15. The [camperships](#) are reviewed in November with notification given to the crew advisor prior to the final crew payment due date.

INSURANCE - Northern Tier fees include accident and sickness insurance coverage. This applies for your travel to and from the Northern Tier base as well as your Northern Tier Expedition. This policy is secondary to a family policy. All participants with family insurance should include the insurance company name and policy number on their BSA Health and Medical Record form and should also submit a copy of the insurance card with the medical form. A BSA [Camper's Accident and Sickness Insurance](#) pamphlet will be sent in the Advisor packet and is also available online at <http://www.ntier.org/>.

EMERGENCY PHONE NUMBER

If there is a home emergency while your crew is attending Northern Tier, **please contact Northern Tier at 218.365.4811.**

HOW DO I PLAN A TRIP?

Northern Tier makes planning an Okpik trip simple. At any point along the way, we encourage you to contact us via e-mail (info@ntier.org) or phone (218.365.4811) with any questions. Paperwork for High Adventure Trips often requires a meticulous eye. It is easier for you and Northern Tier if you contact us with a question rather than arrive at our base with a paperwork issue.

The planning process is a 5-step plan:

- 1) [Trip Selection](#)
- 2) [Reservation and Payment](#)
- 3) [Fulfillment of BSA Policy Requirements](#)
- 4) [Personal Preparation \(physical, mental, gear\)](#)
- 5) [Arrival and Enjoyment of Trip](#)

How does a Northern Tier trip work?

The Crew

All Northern Tier participants belong to a crew. Crews vary in size (during Okpik crew size can range from 6-11 members, dog crews have a maximum size of 7 participants), but all crews consist of at least two adult leaders, a youth crew leader and a majority of youth participants. A Northern Tier Interpreter accompanies all crews.

Larger troops will be divided into “sister” crews. Though sister crews may know each other, they will have independent experiences while at Northern Tier to maintain the integrity of the wilderness program. Sister crews will have limited interaction in the wilderness.

The Crew Leader

The Program of the Boy Scouts of America is specifically designed to develop youth leadership. A well-qualified Scout or Venturer should be selected as the Crew Leader early in the planning of each Northern Tier Expedition. The Crew Leader is responsible for leading the discussion of the Crew’s route selection, organizing the pace of travel during the day and establishing the Crew duty roster for camp chores.

The Advisor

The Crew Advisor serves as a counselor and coach to the Crew Leader. The Crew Advisor is also responsible for ensuring the safety of everyone in the crew: all Crews are required to have an adult with training in Wilderness First Aid and CPR. Finally, the Crew Advisor addresses crew conflicts that may require appropriate discipline.

The Interpreter

The Interpreter is a Winter Camping Counselor who serves as a teacher and resource for the Crew Leader and Crew. The Interpreter has received special training in the best practices for winter camping adventures. The Interpreter aids the Crew Advisor in insuring the safety of the crew. Finally, the Interpreter is responsible for imparting the unique flavor, history, culture and adventurous spirit of the North Country to the crew.

The Wilderness

Northern Tier crews explore massive wilderness areas, where solitude allows for deeper meditation and the rugged terrain and mercurial elements provide for physical challenge. The wilderness is part-classroom and part-instructor in the Northern Tier experience.

Step 1: WHAT TRIP OPTIONS ARE THERE?

Okpik provides a variety of different program options to help crews plan trips that match their desires and needs.

- [Introductory treks](#) (Cabin Stay Program) that acquaint scouts with the basics of outdoor winter activities.
- [Intermediate treks](#) (Okpik Camping Weekend) that focus on developing higher skills, like snow camping, snowshoeing, cross-country skiing, etcetera.
- [Dog Sled programs](#) include our popular Musher Camp, which serves as an introduction to dog sledding and our Dog Trek program which combines winter camping skills with the thrill of dogsledding.

Most trips occur over weekends throughout the winter months (January to the first weekend of March) with the exception of our Holiday Stay Program. The Holiday Stay opens the season (December 27 – January 1) and allows crews to take longer trips and to customize their experience to a greater degree.

Overall, the planning of trips is very flexible. The Okpik staff looks forward to working with you to design the trip that best suits your abilities and interests. A more detailed program description is included on the next page.

INTRODUCTORY TREKS



OKPIK CABIN STAY participants will be able to experience a full range of winter activities while still being able to enjoy a warm cabin at night. Crews will take day trips out to lakes in the area, learning how to ski, snowshoe and ice fish in the process. They will also learn how to cook breakfast and dinner meals in winter conditions. Minimum age is 11 or must be a registered Boy Scout, Varsity Scout or Venturer by the time of arrival at base. Maximum group size is 11 and minimum group size is 6. Participants will receive the Okpik Cabin Stay Award.

INTERMEDIATE TREKS



OKPIK COLD WEATHER CAMPING WEEKEND provides a basic introduction to camping in winter conditions. Participants will hike out to a wilderness lake, towing their gear in sleds (pulks), set up a campsite and spend the one or two nights camping. In addition, they will be exposed to a wide variety of winter activities: snowshoeing, ice fishing, skiing and even a brief introduction to dog sledding. Minimum age is 14 or in 8th grade by the time of arrival at base. Maximum group size is 11 and minimum group size is 6. Participants will receive the Okpik Cold Weather Camper Award.

DOG PROGRAMS



OKPIK MUSHER CAMP provides participants with an introduction to dog sledding. Crews spend their entire weekend with the dogs: going on runs of up to 10 miles every morning and afternoon, providing other Okpik participants with rides, feeding the dogs breakfast and dinner and sleeping in a heated cabin directly adjacent to the dog yard. **Minimum trip length: 3 nights.** Minimum age is 14 or in 8th grade by the time of arrival at base. Maximum group size is 7 and minimum group size is 6. Participants will receive the Okpik Cold Weather Camper Award and may purchase the Okpik Musher Camp Award.



OKPIK DOGSLED TREK – A step up from the Musher Camp, the Dogsled Trek is intended for those who have some dog sledding or winter camping experience. It involves taking 18 Alaskan Huskies out on the ice for two nights! After setting up a permanent camp, crews will explore the pristine and remote Boundary Water Canoe Area Wilderness on morning and afternoon runs of up to 10 miles. **Minimum Trip Length: 3 nights (including one spent on base).** Minimum age 14 or in 8th grade by the time of arrival at base; maximum crew size is 7. Participants will receive the Okpik Cold Weather Camper Award and may purchase the Okpik Dog Trek Award if at least 2 nights are spent out on the ice.

ADDITIONAL AWARDS AVAILABLE

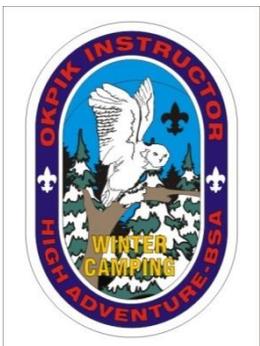


In addition to our different camping programs, Northern Tier offers several unique patches and awards.

- The Okpik Winter Trek award is available for any crews that spend at least 2 nights camping off base in the woods, change campsites at least once and travel at least 7 miles.
- The Zero Hero patch is available to any participant who camps outside on a night where the temperature drops below 0 degrees Fahrenheit (which means -1 or colder).
- The Bizhiw Patch is available to any participant who spends two nights out among the elements.
- The Duty to God award is available to scouts and adults who participate in at least one daily devotional while at Northern Tier and lead grace before one meal while on ice.
- The Trail of Courage award is available to crews who participate in group discussions about healthy lifestyles and personal improvement while at Northern Tier.

Patches are available for purchase in the Northern Tier [Trading Post](#).

OTHER OKPIK OPPORTUNITIES



OKPIK COLD WEATHER LEADER TRAINING – Interested in leading your own winter camping trips? Our Cold Weather Leadership Training program combines an on-base seminar curriculum with a hands-on, on-ice training (including two nights on trail). This five-day course is a condensed version of the same curriculum we give to our Interpreters. It is fun, informative, and an excellent preparation for designing and leading your own troop and council level winter camping adventures. Minimum age of 16 is required by the time of arrival at base.

Step 2: HOW DO I MAKE MY RESERVATION AND PAY?

Once you choose a [program](#), reserving your place in the Okpik schedule is very easy. You will need to know the dates you would like to arrive and depart as well as the number of participants who will be attending. Okpik is very flexible in accommodating the logistical and scheduling needs of any crew – trips are generally on the weekend, but they can be scheduled during the week as well.

Participants are grouped into crews. Each crew must have at least 6 and no more than 11 crew members including two adults. If your crew numbers more than 8 people, you will NOT be able to venture into the [BWCAW](#).

If you navigate to the “[Trip Planning](#)” page on our website, you can access our [Trip Availability Chart](#). A lottery will be held the first full week of January to make reservations for the upcoming Okpik season. Online reservations will be available after the lottery is run. See our website for details. Alternatively, you can contact Northern Tier by phone (218.365.4811) and our Registrar will provide you the information you need.

If anyone in your trip has dietary restrictions or needs, please communicate this information by submitting a request using the following form <http://ntier.org/Food/SpecialDiet.aspx> to us at least 45 days in advance of your trip. Northern Tier accommodates a wide variety of dietary issues if given advance notice.

PROGRAM(s)	CREW SIZE	FEE
Holiday Stay, Okpik Cold Weather Camping Weekend, or Cabin Stay	6-8	\$755 per crew per night
Holiday Stay, Okpik Cold Weather Camping Weekend, or Cabin Stay	9-11	\$1,040 per crew per night
Dog Programs (Trek or Musher Camp)	6-7	\$1,190 per crew per night
Cold Weather Leader Training	-	\$340 per person

PAYMENT SCHEDULE

Deposit	\$800.00	Due within 3 weeks of reservation
Final Payment	Balance of Fees	Due May 15 for all Holiday Stay or Dog programs. Due Oct. 1 for all other Okpik Crews (or within 3 weeks of reservation if reservation is made after Oct. 1)

WHAT'S THE REFUND POLICY?

All fees (deposit, first payment and final payment) are non-refundable and non-transferable in event of cancellation. Exercise caution in making reservations or paying fees for anyone who has not made a financial commitment. Northern Tier High Adventure Programs must commit financial resources to employ staff, purchase food and supplies, and prepare for base operations. Participants are, therefore, also required to make a financial commitment to attend. Be conservative in making reservations to avoid losing fees due to cancellations.

In rare & extenuating instances, we may determine that conditions do not allow us to present the Okpik programs. In this instance, you will be notified and all fees will be refunded or transferred to future trips.

WHAT EXPENSES ARE NOT COVERED BY THE NORTHERN TIER BASIC FEES?

- **FOOD:** An evening meal is available for any crew arriving prior to 7:00pm. Northern Tier staff must know **2 weeks** prior to your arrival that your crew(s) want to eat an evening meal at base. Crews that plan to arrive after 7:00pm should plan on eating dinner en route to the base. A list of restaurants in Ely can be found by going to www.ely.org.
- **FISHING:** All participants who wish to Ice Fish during their Okpik experience must possess a valid Minnesota fishing license. Fishing Licenses may be bought online in advance of your trip. This is the best way for you to purchase your license.
 - To purchase your fishing license online go to <http://www.dnr.state.mn.us/licenses/fishing/index.html?type=fishing>
 - Please refer to the Minnesota DNR website for all fishing regulations and rules: <http://www.dnr.state.mn.us/regulations/fishing/index.html>
- **PATCHES:** Program patches for [Bizhiw](#), [Zero Hero](#), [Treks](#), [Dog Trek](#) and [Duty to God](#) can be purchased (if requirements are met) in the [Trading Post](#).

WHAT IS MY CREW NUMBER?

In your confirmation email, you will be given a crew number. This number should be referenced in any correspondence with Northern Tier. Your crew number is assigned to you based upon which program you are participating in, the date you are arriving and the number of crews that you have. For example crew number Z012717ABC is compiled of:

- Z represents the program you are attending (in this case either cabin stay or Okpik Camping Weekend)
- 012717 is the date this crew will arrive at Northern Tier (January 27, 2017)
- ABC indicates that this group consists of 3 crews: Crew A, Crew B and Crew C

CREW PHOTOGRAPHS

When you arrive at Northern Tier each crew has a photograph taken. You can order copies of pictures - 5x7- \$6.00 or 8x10- \$8.00 - prices subject to change.

Step 3: HOW DO I FULFILL ALL BSA POLICY REQUIREMENTS?

Northern Tier is a National High Adventure Base of the Boy Scouts of America. Consequently, every group that arrives on base for a trip must meet certain requirements. *Below the required pieces of paperwork that every crew must have with them upon arrival at base are listed.*

Please read carefully: **If you do not bring the required paperwork, you will not be allowed on your trip.**

- TWO-DEEP LEADERSHIP** - Every crew must have a minimum of two adult leaders, one of whom must be at least 21 years of age. Co-ed groups must have co-ed adult leadership over the age of 21.
- BSA REGISTERED ADULTS AND YOUTH** - At least one 21+ adult and all youth (Scouts and Venturers) must be registered members of the Boy Scouts of America. Apply for BSA registration through your local council.
- HEALTH AND MEDICAL RECORDS** - All participants, adult and youth, **must bring a completed BSA “Health and Medical Record” signed by a medical doctor.** Okpik is a physically taxing program in a rugged area and participants must be fit enough to meet the challenge: participants are required to fall within the [minimum and maximum height/weight requirement](#) on the [Health and Medical Record](#). Northern Tier strongly recommends that all participants fall within the recommended weight for their height for the reasons of safety and enjoyment of the programs. The [maximum and minimum weights](#) are the absolute maximum and minimum. **THOSE FALLING ABOVE 295 POUNDS (250 POUNDS FOR DOG PROGRAMS) WILL ABSOLUTELY NOT BE PERMITTED TO PARTICIPATE.** You do not want to fall above or below those requirements. Forms are available at www.ntier.org.
- FIRST AID KIT**: Each crew is responsible for bringing a complete [First Aid kit](#). See page 19 for recommended First Aid Kit supplies.
- TRAINED ADULT LEADERSHIP** - All participants over the age of 18 must have proof of [BSA Youth Protection Training](#). One adult per crew must have proof of [Wilderness First Aid training, CPR training](#) and [BSA Weather Hazards training](#).
- AGE REQUIREMENTS** – Northern Tier expects crews to abide by the Age Requirements of their [program](#). Youth participants should be put in programs that are appropriate for their physical abilities and maturity levels.

Step 4: HOW SHOULD WE PREPARE?

Okpik makes winter camping easy and simple by providing crews almost everything they need. All food is pre-packed by your Interpreter and ready to go on arrival. All cooking gear – stoves, fuel, pots, utensil kit, etc. – await your inspection upon arrival. All the tools necessary for spending several nights in the elements are provided. In addition, almost all significant recreational equipment is available free of charge. Snowshoes, cross-country skis and basic ice fishing equipment are all stocked ready-for-use in our Bay Post.

Okpik outfits participants who need it with almost all personal clothing. Cold-weather sleeping bags, sleeping pads, wind pants, wind jackets (anoraks), boots, water bottles and more are provided by Okpik's outfitting department. *Participants must bring their own [hats](#), [long underwear](#), [wool socks](#), [summer rated sleeping bag](#), [flashlight](#), [bowl and spoon](#); participants are encouraged to bring their own [fleece pants and shirt](#).*

Finally, Okpik provides an Interpreter to educate participants on how to winter camp in the most comfortable, safe, and fun manner. Almost everyone who arrives at Okpik is new to winter camping; prior experience is not necessary.

However, better prepared scouts and advisors have more satisfying trips. While Okpik provides most of the gear you might need, acquiring your own gear (which you can break in beforehand) may increase your comfort. Okpik participants are strongly advised to arrive mentally prepared by reading the [OKPIK PARTICIPANT HANDBOOK](#) and the [OKPIK COLD WEATHER CAMPING GUIDE](#), to give themselves a basic understanding of cold-weather camping practices before they arrive.



WHAT SHOULD WE BRING?

Okpik provides almost all of the gear required for a safe and satisfying winter camping adventure. However, each individual and each crew will need to bring some of their own personal gear.

Group Gear:

- **All crews are required to bring their own [First Aid kit](#)**

Personal Gear:

Required:

- [2 Winter Hats \(preferably fleece\)](#)
- [2 pairs of synthetic long underwear](#) (tops and bottoms; **NO COTTON**)
- [2 pairs liner gloves](#)
- [2-3 pairs wool or heavy synthetic socks](#)
- 2-3 pairs synthetic liner socks
- 3-Season [Sleeping bag](#). This will be combined with an Okpik issued Cold Weather sleeping bag.
- [Headlamp or flashlight](#) and extra batteries (MUST HAVE – days are short in the winter)
- Toiletry articles (toothbrush, toothpaste, etc.)*
- Plastic [Cup](#), [bowl](#) and [spoon](#)
- [Stuff sack](#) or small duffel bag for all personal gear
- Items for showering* (towel, soap, etc.) and clothes for the trip home
- Scarf or [Neck Gaiter](#)*
- [Sunglasses](#)* or Ski Goggles

The following items are available for outfitting, though you may feel more comfortable in your own:

- 2 pairs wool or fleece pants
- [2 sweaters](#)* – preferably wool or polar fleece
- [2-3 pairs of mittens](#)* (mittens are warmer than gloves)
- 1 wind jacket
- 1 pair snowpants or rainpants
- Skis and snowshoes
- Warm/winter boots (e.g., Sorels or Kamiks) with removable liners *Recommended:*

The following items are recommended but not provided by Okpik

- Suspenders (better than a belt in cold weather)
- Fleece Vest
- [Pocketknife/matches/bandana](#) *
- [Sunscreen and chapstick](#) *
- Camera and film

PLEASE NOTE: While Northern Tier strives to have clothing available for all sizes, we are limited in the number of XX-L items. For these sizes or larger, we recommend that participants bring their own.

*These items are available for purchase in the [Trading Post](#) or online at www.ntier.org.

HOW DO WE PREPARE MENTALLY AND PHYSICALLY?

Winter Camping requires a good deal of stamina. The cold temperatures drain energy, as the body spends more effort working to keep itself warm. While out on the ice, you can expect to expend far more calories than you normally would – 4,000 - 5,000 would be a good estimate!

Because of these factors, arriving at Okpik in good physical condition will enhance the enjoyment of your trip. Try to exercise for thirty minutes three times a week for at least the month before you arrive at Okpik. We recommend, in particular, high amounts of cardiovascular exercise. Pulling a sled, snowshoeing, skiing and dogsledding all require significant cardiovascular capacities. Run, swim and be active to prepare for your trip. It is also a good idea to do at least one overnight preparation trip before you attend Okpik. Dogsledding in particular requires significantly more running than you might expect, if you are signed up for a dog program be prepared to run and jump in your winter clothes and boots.

Winter camping is a fascinating and little studied branch of outdoor skills. We encourage you to study up on the various techniques and approaches to winter camping. Spending several days in the cold requires a methodical and meticulous approach to even the most mundane tasks. Begin your preparation by reading through the [Okpik Guide to Winter Camping](#). If you find that fascinating, continue your education through the books listed in our [bibliography](#) at the end of this book



Fishing Licenses

Northern Tier recommends that all Fishing Licenses be purchased online in advance of your trip. If youth under the age of 16 (for fishing in Minnesota) would like to fish, they can fish under the license of a single adult. However, their catch will be restricted to this adult's limit.

MINNESOTA FISHING LICENSES - All individuals, 16 years of age and older need to obtain a license to fish in the Superior National Forest, licenses can be purchased in advance over the phone by calling 1-888-665-4236, or online. For current pricing and license information visit <http://www.dnr.state.mn.us/> NOTE: Regulations in Minnesota may be different than what you are used to at home. Make sure to review these regulations when you purchase your license.

How do we get to the base?

Crews should arrive at Northern Tier between 1:00 and 3:00 PM for their OKPIK program. Lunch should be eaten en route to the base as it will not be available for your crew upon arrival. You are responsible for your own transportation to Northern Tier.

The Ely base is located 20 miles east of Ely, Minnesota. Driving directions are included on the next page.

Transportation options

The Ely Canoe Base is 130 miles from Duluth, 270 miles from Minneapolis, 100 miles from Hibbing, and 20.2 miles northeast of Ely. Crews using public transportation will need to arrange charter transportation to the Base.

GROUND TRANSPORTATION OPTIONS

Shubat Transportation

Hibbing, MN
888-874-8228
info@shubat.com

LCS Coaches

Cloquet, MN
888-743-3527
218-879-3391

Ely Shuttle Service

Ely, MN
218-349-1383
14 passenger vans

Voyageur Bus Co/MN Coaches Inc.

Duluth, MN
218-724-1717

Spirit of the Wilderness

Ely, MN
218-365-3149

Where can I stay en route to base?

Crews traveling through Minneapolis or Duluth may plan to overnight at Northern Lights Shuttle and Lodging located at Giants Ridge Ski Resort in Biwabik, MN. Giants Ridge offers lodging, food service, and recreation for Scouting groups at very reasonable rates. Call 218-780-2556 for more information or www.giantsridge.com

If you plan on spending the night in Minneapolis consider staying at Northern Star Council's Base Camp, a brand new urban camp located just a few miles from the Minneapolis – St. Paul airport 612-767-0040 or www.explorebasecamp.org

For other lodging opportunities in the Ely area go to www.ely.org/lodging

What can we see along the way?

Minnesota is full of fascinating historical sites, terrific museums, and beautiful scenery. Check out our list of “Places to Visit” here.

WHAT HAPPENS WHEN I ARRIVE AT BASE?

The afternoon of your arrival will be busy! Please try to arrive on base between 1 and 5 PM. Be prepared for the following:

- Meet your Interpreter
- Carry personal and group gear to your crew’s assigned cabin (Do not pack in roller luggage, it is a rugged trail to your cabin. Pack in a backpack or duffel bag.)
- Medical Screening of each individual
- Crew Check In (presentation of paperwork, health forms, and copies of your certifications)
- Expedition Planning
- An Interpreter led shake-down of group and personal gear
- Gear and food outfitting
- Dinner usually from 5-7 PM
- Orientation presentation

HOW DO WE STAY IN TOUCH WITH OUR FAMILY AND FRIENDS WHILE WE’RE AT NOTHERN TIER?

Remember that you will be embarking on a Wilderness Trek. Crews are strongly encouraged to leave connections to the urban world on base when out on the trail. Cell phones are discouraged while in the wilderness. Northern Tier provides a reliable means of emergency communication to each crew. Please leave your cell phones behind.

While on base, limited cell phone coverage exists and some service providers are better than others. Due to the remote location of the base, we cannot guarantee any cell phone coverage. Similarly, Northern Tier has limited internet connectivity available to crews.

If there is an emergency at home while you’re on trail, Northern Tier may be called at 218.365.4811 and we will get the message to you as soon as we are able. Please note that this means we will not be able to get the message to you until after you get off the ice. We do not maintain regular contact with our crews. Remember, you’re in the wilderness. Enjoy it!

WHAT IF THERE IS AN EMERGENCY WHILE ON THE TRAIL?

Before we discuss emergency communications, it is important to note that Northern Tier treks are true High Adventure experiences and your crew will be in a vast wilderness area. Northern Tier does NOT maintain regular communication with our crews as it is not necessary and is a drain on resources. If an emergency does happen while on the trail, your Interpreter should immediately contact the base and our management team will work with the Interpreter and Crew to determine the best possible solution.

All Northern Tier crews are issued either an Emergency Radio or a Satellite Phone, depending on their route. Your Interpreter is trained in the operation of these devices and will in turn train your crew. Unless otherwise incapacitated, your Interpreter is solely responsible for any communication with the base.

Northern Tier has an amazing safety record and we rarely have to evacuate someone. When we do have to make that decision, please realize that evacuations can take several hours as our primary method is to evacuate people on foot.

This is why it is imperative that every crew have an advisor certified in Wilderness First Aid, CPR, and Weather Hazards, AND every crew must have a WELL STOCKED First Aid kit.

Trading Post (retail store)

Northern Tier's Trading Post sells a large supply of gear, souvenirs and snacks. Each participant spends on average \$150 at the Trading Post. For more information go to www.northerntiertradingpost.org.

WHAT ABOUT OUR FOOD? WHAT DO WE EAT?

Your crew will typically eat three meals on base. The day you arrive, you will eat dinner in our dining hall. The next morning before you hit the ice, breakfast will be served in the dining hall. You should plan on wearing your trail clothes to breakfast, in order to expedite your departure on the trail.

After you get off the ice, you will eat lunch in the dining hall before you leave.

Holiday stay crews will spend their last night on base and will have dinner the night they come off ice as well as breakfast the following morning in the dining hall.

While on the ice your crew will partake in some of the best trail food in the business. Our commissary is stocked according to an expertly crafted menu. Your Interpreter spends the morning before you arrive at base packing your food. After you arrive, your Interpreter will go through the trail food with you and explain what is included. This also allows you and the Interpreter to double check and make sure everything is packed. your trail food will be waiting at your cabin when you arrive.

We make every effort to accommodate special diet requests. The key to success is communication – the staff at Northern Tier needs to know about Special Diet needs. They will communicate directly with the individual or individual's parents regarding those needs. Please fill out a dietary restrictions form on each participant with special diet needs at the following link <http://ntier.org/Food/SpecialDiet.aspx>. It is important that you provide us with a direct email and phone number for that individual, so we can communicate with them. As previously stated, we make every effort to accommodate special diet requests, but in some situations it is not possible. In those situations we will let the individuals know what we can provide and ask them to supplement additional food on their own.

WHAT ARE THE HEIGHT AND WEIGHT REQUIREMENTS?

The following table shows the recommended weights for each height, as well as the maximum weight for that height. **Northern Tier strongly recommends that each participant not exceed the maximum weight on the table for their height. Northern Tier requires that you fall below the maximum (295 pounds and 250 pounds for dog programs) allowed weight for participation. Additionally, Northern Tier strongly recommends that no Okpik Cold Weather Camping, Musher Camp**
Okpik Advisor Planning Guide 2016-2017

or Dog Trek participant weigh less than 100 pounds . Smaller participants will have a very difficult time due to the strenuous nature of the trek.

Weight-to-Height Table Northern Tier National High Adventure Programs		
Height	Recommended Weight (pounds)	Maximum Weight (pounds)
Minimum Allowed Weight ***Participants weighing less than 100 pounds will have a very difficult time and are discouraged from attending. Not Applicable to Cabin Stay.		100 pounds
5' 0"	100 - 138	166
5' 1"	101 - 143	172
5' 2"	104 - 148	178
5' 3"	107 - 152	183
5' 4"	111 - 157	189
5' 5"	114 - 162	195
5' 6"	118 - 167	201
5' 7"	121 - 172	207
5' 8"	125 - 178	214
5' 9"	129 - 185	220
5' 10"	132 - 188	226
5' 11"	136 - 194	233
6' 0"	140 - 199	239
6' 1"	144 - 205	246
6' 2"	148 - 210	252
6' 3"	152 - 216	260
6' 4"	156 - 222	267
6' 5"	160 - 228	274
6' 6"	164 - 234	281
6' 7" +	170 - 240	295
Maximum Allowed Weight ***No participants weighing more than 295 (250 for dog program) pounds will be allowed to participate.		295 pounds

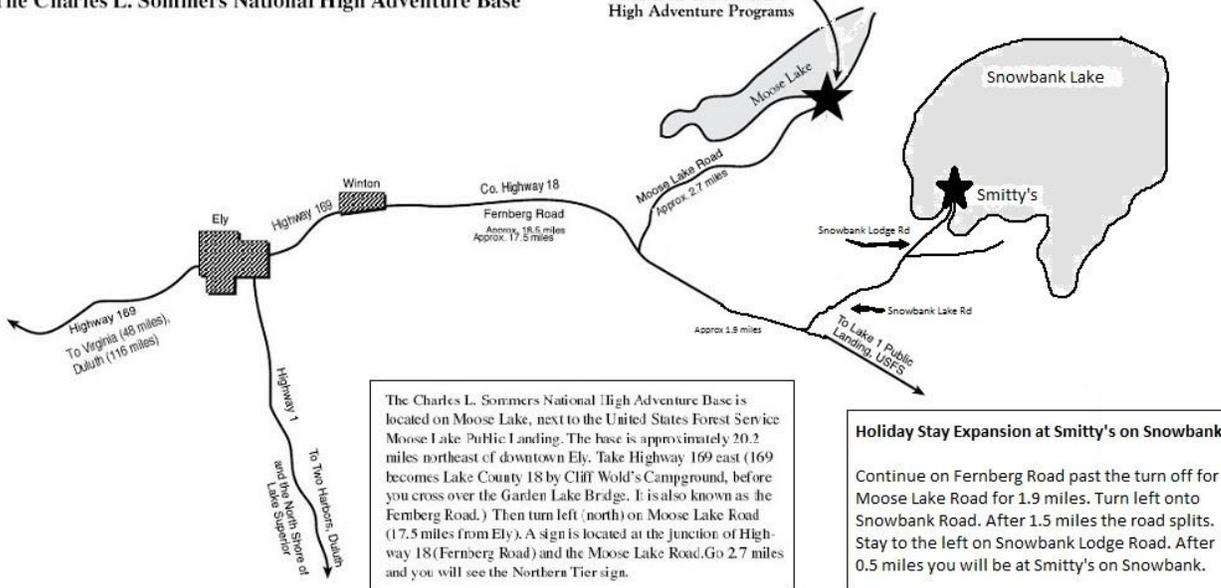
Step 5: HOW DO WE GET THERE TO START OUR ADVENTURE?



You are responsible for your own transportation to Northern Tier. Okpik is based out of the Ely base, located approximately 20 miles east of Ely, Minnesota. If you have questions about shuttle services, please visit our webpage at www.ntier.org/triplanning.

NORTHERN TIER
NATIONAL HIGH ADVENTURE PROGRAMS
BOY SCOUTS OF AMERICA
The Charles L. Sommers National High Adventure Base

Charles L. Sommers
National High Adventure Base
Northern Tier National
High Adventure Programs



OKPIK CHECK LIST

CHECK, DOUBLE CHECK AND TRIPLE CHECK BEFORE LEAVING HOME

- Adults and youth have a completed [BSA Health and Medical Record](#) signed by a doctor within the last 12 months. Youth also have a parent or guardian sign the form.
- Copies of required certification cards: [Youth Protection](#) for all adults over 18. One adult must have proof of [Wilderness First Aid, CPR](#) and [Weather Hazards](#).
- Required medications – two of each with one for user and one for advisor in case of loss
- Adequate [personal gear](#) (see page 12)
- Financial needs (cash, credit cards, checks, travelers checks, etc.)
- Submitted a Participant Roster online [through](#) the online registration system.

FIRST AID KIT

EVERY CREW MUST BRING ONE FULLY STOCKED FIRST AID KIT

All BSA crews traveling with a [BSA Tour and Activity Plan](#) are required to carry a first aid kit. The kit should be personalized to meet the needs of the crew. The BSA National Health and Safety Committee recommend the following items for Scouting and Venturing units participating in High Adventure activities. First aid kits should be stored in [waterproof containers](#)¹ for use en route as well as at Northern Tier and should contain the following items.

- | | | |
|---|--|---|
| <input type="checkbox"/> Adhesive bandages (assorted sizes) | <input type="checkbox"/> Disposable alcohol wipes | <input type="checkbox"/> Lip balm |
| <input type="checkbox"/> Knuckle and fingertip bandages | <input type="checkbox"/> Triangular bandage | <input type="checkbox"/> Thermometer |
| <input type="checkbox"/> Steri strips | <input type="checkbox"/> Acetaminophen | <input type="checkbox"/> Scissors |
| <input type="checkbox"/> Moleskin/molefoam | <input type="checkbox"/> Ibuprofen tablets | <input type="checkbox"/> Tweezers |
| <input type="checkbox"/> Second skin | <input type="checkbox"/> Cold caplets | <input type="checkbox"/> Safety pins |
| <input type="checkbox"/> Gauze pads—3" x 3" | <input type="checkbox"/> Antacids | <input type="checkbox"/> Side cutters |
| <input type="checkbox"/> Adhesive tape—1" x 15' | <input type="checkbox"/> Antihistamines | <input type="checkbox"/> Nitrile or latex gloves |
| <input type="checkbox"/> 1" or 2" roll of gauze | <input type="checkbox"/> Steroid cream | <input type="checkbox"/> Barrier device for resuscitation |
| <input type="checkbox"/> 4" elastic bandage | <input type="checkbox"/> Anaphylaxis kit (if needed) | <input type="checkbox"/> Sunscreen |
| <input type="checkbox"/> Oval eye patch | <input type="checkbox"/> Throat lozenges | <input type="checkbox"/> First aid manual |
| <input type="checkbox"/> Antibiotic ointment | <input type="checkbox"/> Small bar soap | |

* **SHARE** this list with all crew members, advisors and parents prior to departure for Northern Tier.

****CHECK** all medical forms prior to departure for Northern Tier, ensuring allergies and other special considerations are noted. Be prepared to explain important information upon arrival.

*****PRESCRIBED MEDICATION** should be supervised by an adult advisor. Any person requiring a prescription medication should personally carry the medication. A back-up supply should be in the kit.

¹ Available in the Trading Post or online at www.ntier.org
Okpik Advisor Planning Guide 2016-2017

SAMPLE ITINERARIES

OKPIK HOLIDAY STAY SCHEDULE

December 27	December 28	December 29	December 30	December 31	January 1
Day One (1)	Day Two (2)	Day Three (3)	Day Four (4)	Day Five (5)	Day Six (6)
Arrive	Hit the Ice!	Enjoy the Ice!		Come Off Ice	Go Home

December 27

- Arrive between 1:00 and 6:00 PM and meet your Interpreter. You can [eat in town](#) prior to arrival, or you can eat dinner at the base provided you arrive before 7:00 PM
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Get situated in your on-base accommodations and complete a Gear Shakedown
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).

December 28-30

- Breakfast at 7:30 AM in the program center.
- Finish checking out group equipment and food. Prepare for hitting the ice.
- Start your Okpik Adventure!

All [meals](#) after breakfast on Dec. 28 will be cooked by your group until the evening of Dec. 31. We recommend spending the rest of the day setting up camp at one of our remote campsites

December 31

- Morning: Enjoy your last day on the ice. Begin preparations to return to base.
- Mid-afternoon: Arrive back at base. Return borrowed gear, take a shower or sauna and settle back into on-base accommodations.
- Dinner will be served at 5:30pm
- Visit the Trading Post and celebrate the New Year!

January 1

- Visit the Trading Post and Depart for home after breakfast at 7:30am

OKPIK HOLIDAY STAY EXPANSION SCHEDULE

December 29	December 30	December 31	January 1	January 2	January 3
Day One (1)	Day Two (2)	Day Three (3)	Day Four (4)	Day Five (5)	Day Six (6)
Arrive	Hit the Ice!	Enjoy the Ice!		Come Off Ice	Go Home

December 29

- Arrive at Northern Tier between 1:00 and 6:00 PM and meet your Interpreter. You can [eat in town](#) prior to arrival, or you can eat Dinner at the base provided you arrive before 6:00 PM
- Complete a Gear Shakedown
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).
- Shuttle to our satellite facility

December 30 - January 1

- Breakfast at 7:30 AM at our satellite facility
- Prepare for hitting the ice.
- Start your Okpik Adventure!

All [meals](#) after this will be cooked by your group until the evening of Jan. 2. We recommend spending the rest of the day setting up camp at one of our remote campsites

January 2

- Morning: Enjoy your last day on the ice. Begin preparations to return to base.
- Mid-afternoon: Arrive back at our satellite facility and shuttle to the Sommers Canoe Base on Moose Lake Road. Return borrowed gear, take a shower or sauna. Don't forget to visit the Trading Post!
- Dinner will be served at 5:30pm
- Shuttle back to our satellite facility

January 3

- Depart for home after breakfast at 7:30am

CABIN STAY SCHEDULE

DAY 1:

- Arrive between 1:00 and 6:00 PM and meet your Interpreter. You can [eat in town](#) prior to arrival, or you can eat supper at the base provided you arrive before 7:00 PM
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Get situated in your on-base accommodations and complete a Gear Shakedown
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).

DAY 2:

- Breakfast at 7:30 in the Dining Hall
- Enjoy the day: go sledding, hiking, skiing or snowshoeing. Try out ice fishing or snow sculpting. Try to build a snow shelter or explore the snow villages that other Okpik crews have already created. Visit the Dog Yard to see how dogsledding dogs live. If the weather is particularly cold or wet, indoor activities are also provided – but crews are encouraged to spend as much of the day outside as possible.
- Cabin Stay crews will cook all of their own [meals](#).
- At night, tell stories around a winter campfire, explore the stars with a star scope or go for a night hike before going to bed in a heated cabin.

DAY 3:

- Eat Breakfast
- Check in personal and group gear at the Bay Post by 10:00 AM
- Clean up with a shower and sauna
- Visit the [Trading Post](#)
- Lunch at 12:00 PM
- Head home

OKPIK COLD WEATHER CAMPING WEEKEND SCHEDULE

Day One (1)	Day Two (2)	Day Three (3)
Arrive	Hit the Ice!	Off Ice and Go Home

DAY 1:

- Arrive between 1:00 and 6:00 PM and meet your Interpreter. You can [eat in town](#) prior to arrival, or you can eat dinner at the base provided you arrive before 7:00 PM
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Get situated in your on-base accommodations and complete a Gear Shakedown
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).

DAY 2 and Succeeding Days if out more than 1 night:

- Breakfast at 7:30 AM in the program center (Day 2 only).
- Finish checking out group equipment, personal equipment and food.
- Travel out into the wilderness. Set up a campsite. Try out cross-country skiing, snowshoeing or ice fishing.
- You will cook and eat your [meals](#) on the ice.

At some point during your time on the ice, a dog sledding crew will give you a very brief introduction to dog sledding and its uses in the North Woods.

DAY 3

- Eat Breakfast and pack up camp
- Return to Base by 10:00 AM
- Check in personal and group gear at the Bay Post
- Clean up with a shower and sauna
- Visit the [Trading Post](#)
- Lunch at 12:00 PM
- Head home

OKPIK MUSHER CAMP SCHEDULE

Day One (1)	Day Two (2)	Day Three (3)	Day Four (4)
Arrive	Run the Dogs!	Run the Dogs!	Go Home

DAY 1:

- Arrive between 1:00 and 6:00 PM and meet your Musers. You can [eat in town](#) prior to arrival, or you can eat dinner at the base provided you arrive before 7:00 PM
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Get situated in your on-base accommodations and complete a Gear Shakedown
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).

DAY 2:

- Wake up early and feed the Dogs breakfast before “Human Breakfast”.
- Breakfast at 7:30 AM in the program center.
- Finish checking out group equipment, personal equipment and food.
- Return to the Dog Yard for dogsledding instruction: this will cover history of dogsledding, types of dog sleds, feeding and care of a dogsledding team, safety rules, dogsledding equipment, harnessing the dogs, training the dogs and running the dogs.
 - Musher Camps are involved in giving a similar introduction to dogsledding to non-dogsled crews at Okpik, so pay attention to the First Orientation Talk!
- Provided your crew is organized, you should be able to fit in a morning and afternoon run with the dogs on Day 2. Between the runs, you will return to the Dog Yard / Musher Camp Yurts to eat lunch.
- Feed the dogs dinner and then [cook dinner](#) for yourself before turning in to spend the night in your heated Musher Camp Yurt.

DAY 3:

- Take a Morning and Afternoon dogsled run with the dogs. Stop by other Okpik crews to give them short “Introduction to Dogsledding” presentations accompanied by short circle rides.

DAY 4:

- Check in personal and group gear to Northern Tier by 10:00 AM.
- Visit the [Trading Post](#)
- Lunch at 12:00 PM

OKPIK DOG SLED TREK SCHEDULE

Day One (1)	Day Two (2)	Day Three (3)	Day Four (4)
Arrive	Hit the Ice!	Run the Dogs	Off Ice and Go Home

DAY 1:

- Arrive between 1:00 and 6:00 PM and meet your Musher. You can [eat in town](#) prior to arrival, or you can eat dinner at the base provided you arrive before 7:00 PM
- Complete Check-In: pay any final fees, turn in [BSA Health and Medical Records](#) and discuss the specific trip goals of your crew.
- Get situated in your on-base accommodations and complete a Gear Shakedown
- Attend a “First Night Orientation” – an Interpreter led introduction to Winter Camping
- Get outfitted with group gear and supplemental personal gear.
- Visit the [Trading Post](#)– remember, our [Trading Post](#) carries some of the items you are required to bring (just in case you forgot).

DAY 2:

- Wake up early and feed the Dogs breakfast before “Human Breakfast”.
- Breakfast at 7:30 AM in the program center.
- Finish checking out group equipment, personal equipment and food.
- Return to the Dog Yard for dogsledding instruction: this will cover history of dogsledding, types of dog sleds, feeding and care of a dogsledding team, safety rules, dogsledding equipment, harnessing the dogs, training the dogs and running the dogs.
- Pack all gear into sleds and begin the trek out into the [BWCAW](#). Three dogsled teams driven by two participants and a Musher will head out to the campsite to drop off gear before returning to pick up the rest of the crew. The rest of the crew will walk part way to the campsite before being picked up.
- [Eat lunch](#), set up camp and take an afternoon ride before dinner.
- Feed the dogs and place them on a gang line for the night.

DAY 3 and Succeeding Days if out more than 2 nights:

- Take a Morning and Afternoon dogsled run with the dogs.
- Explore the [BWCAW](#)

DAY 4:

- Wake up early to pack sleds, feed dogs, eat breakfast, harness dog teams and ride back to base.
- Return to Base by 10:00 AM
- Check in crew and personal gear at the Bay Post
- Clean up with a shower and sauna
- Visit the [Trading Post](#)
- Lunch at 12:00 PM
- Head home

SUGGESTED READING

- ✎ Conover, Garret and Alexandra. *A Snow Walker's Companion: Winter Trail Skills from the Far North*
- ✎ Dunn, John M. *Winterwise: A Backpacker's Guide*. Lake George, NY: Adirondack Mountain Club, 1997.
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- ✎ Gilpatrick, Gil. *Building Snowshoes*. Skowhegan, ME: Gil Gilpatrick, 1998.
- ✎ [Gorman, Stephen. *AMC Guide to Winter Camping: Wilderness Travel and Adventure in Coldweather Months*. Appalachian Mountain Club, 1991.](#)
- ✎ Hampton, Bruce, David Cole and Denise Casey. *Soft Paths: How to Enjoy the Wilderness Without Harming It*. Mechanicsburg, PA: Stackpole Books, 1995.
- ✎ [OKPIK: Cold-Weather Camping. Irving, Texas: Boy Scouts of America, 1990.](#)
- ✎ Prater, Gene. *Snowshoeing, 4th Edition*. Seattle, WA: The Mountaineers, 1997.
- ✎ Randall, Glenn. *Cold Comfort*. New York, NY: Nick Lyons Books, 1987.
- ✎ Stokes, Donald W. *A Guide to Nature in Winter*. Boston, MA: Little, Brown, and Co., 1976.
- ✎ Watts, May T. and Tom. *Winter Tree Finder Nature Study Guide*. Berkeley, CA: Wilderness Press, 1970.
- ✎ Weiss, Hal. *Secrets of Warmth for Comfort or Survival*. Seattle, WA: The Mountaineers, 1992.
- ✎ Wilkerson M.D., James A. *hypothermia, Frostbite, and Other Cold Injuries – Prevention, Recognition, and Prehospital Treatment*. Seattle, WA: The Mountaineers, 1986.

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