

UNIVERSITY OF MINNESOTA
Itasca Biological Station and Laboratories

RESEARCH APPLICATION

SECTION I. General Information:

Date: _____

Name and Title of Principal Investigator: _____

Telephone Number: _____

E-mail: _____

Name, full mailing address and phone number of home institution and department:

Title of Research: _____

Does this research involve the establishment and/or use of long-term or permanent study plots?

YES ___ NO ___

(If YES, you will be required to provide GPS coordinates for all plot corners).

Timing of research this year (estimate): _____

Duration of research for entire project: 20___ to 20___

Are you interested in student research assistants and volunteers available through the Itasca Program?

YES ___ NO ___

Research space required:

Station equipment required: _____

PROJECT PERSONNEL

	<u>NAME</u>	<u>COLLEGE/ UNIVERSITY</u>	<u>SOURCE OF RESEARCH SUPPORT</u>
Undergraduate Students:	_____	_____	_____
	_____	_____	_____
Graduate Students:	_____	_____	_____
	_____	_____	_____
	(Please indicate M.S. or Ph.D. students)		
Faculty and Post-doctoral	_____	_____	_____
	_____	_____	_____
Research Staff:	_____	_____	_____
	_____	_____	_____

SECTION II. Detailed Research Information:

Will this research involve any of the following? (Please X):

- Chemicals
- Radioactive Materials
- Bio-hazards e.g. rDNA, toxins
- Vertebrates

Will this research generate any hazardous waste? Yes No

Description or abstract of research (attach sheet if necessary):

Location of study area:

Environmental impact on area:

Source(s) of funding (NSF, NIH, home University, Self supporting, etc.):

Amount of funding (if relevant): _____
(PLEASE NOTE: Research fees for sponsored projects should be estimated with the Station Biologist before a proposal is submitted.)

If principal investigator is a student, name and phone number of major advisor:

SECTION III. Field Research Permit

NAME: _____

AFFILIATION: _____

POSITION: _____

Title of Research: _____

Location of Research: _____

Projected beginning and ending dates of field work: _____ to _____

_____ On Station Only

_____ In Park (**VERY IMPORTANT TO** specify area and mark on enclosed map as soon as study sites are known.)

_____ Other (specify)

Research Objectives:

Federal and/or State Permits required: **Yes** _____ **NO** _____

(If yes, attach copies of permits).

List materials such as flagging, traps, nets, fencing, recorders, etc. that will be left on study sites when you will not be present.

NOTES:

1. SECTIONS I and II in this research application will be used to administer research and equipment with the Itasca Program.
2. The Field Research Permit, SECTION III, must also be completed prior to commencement of any field work. This informational permit is for the State Park System and the Itasca Station. It is used to coordinate research sites within Itasca State Park and the surrounding area.

There are several permanent vegetation study plots and usually about 20-30 active field research sites in the park. Roadways, trails and utilities are under constant consideration for improvement and maintenance. Pine regeneration experiments and large controlled burns will be conducted in upcoming years. To minimize conflicts with your field study sites, please fill out the permit carefully and completely; **and submit a map of study sites.**

3. **PERMITS**

The Itasca Biological Station lies completely within Itasca State Park. Plant and animal collecting within a state park is prohibited except as follows: The station carries a permit with the state park system for faculty, students and researchers to collect unprotected plants, invertebrates, small fish (Minnesota fishing license required and strict gear limitations enforced), amphibians, reptiles and rodents.

Researchers are eligible to use this permit only if the Station Biologist has approved a completed research application and a study area map.

All other permits that may be required for each research project are the responsibility of the principal investigator. The permit process has become quite complex and may involve multiple permits for a single project. The types of permits required depend upon:

- A. Species and the state and federal resource agencies responsible for the species.
- B. Geographic area of the research.
- C. Methods being used.
- D. Time of field work.

EXAMPLES OF PERMITS ARE:

1. Scientific and Natural Areas: MN-DNR, SNA program.
 2. Vertebrates: U of M Institutional Animal Care and Use Committee (IACUC)
 3. Fish and Public Waters: MN-DNR Section of Fisheries.
 4. Birds: USFWS, MN-DNR
 5. Bird Banding: USFWS.
 6. Animals classified as 'game': MN-DNR Section of Wildlife.
 7. Endangered and threatened plants and animals: MN-DNR Non-game Wildlife Program, USFWS.
 8. State and County Forest Land: Forest supervisor.
 9. Any private lands: Landowner.
 10. Night field work after 10:00 p.m. in Itasca Park: Station Biologist.
 11. Introductions of non-native species: MN-DNR Division of Parks.
 12. Manipulative field experiments: MN-DNR Division of Parks.
 13. Excavation and digging: Archaeological permit, MN-DNR Division of Parks.
 14. Nature Conservancy Lands: The Nature Conservancy.
 15. Chemical use outside of labs: MN-DNR Division of Parks.
 16. Radioactive materials: MN-DNR Division of Parks, in addition to the usual U of M radioactive materials permits.
 17. Controlled substances: U.S. Dept. of Justice, DEA, MN Board of Pharmacy.
 18. Biohazards: e.g. rDNA, toxins, etc.: U of M Institutional Bio-Safety Committee (IBC).
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4. Research fees must be arranged with the Station Biologist (218) 266-3345 before office space, bench space or equipment will be issued. There is a minimum research fee of **\$21.00/week** for all researchers. Office space and lab-bench fees are additional. Expendables such as gasoline, chemicals, batteries, etc. are not usually included in research fees. **\$14.00 /week** will be charged to connect your computer to our wireless network.
 5. Please submit one bound copy of each thesis and at least two reprints of each published report to the station biologist.
 6. Please inform the station biologist of any change in your study area(s) or period of research.
 7. Graduate students should contact the Director and the Station Biologist concerning Itasca research.
 8. Safety training for use the following is the responsibility of each researcher:
1) Chemicals, 2) Radioactive materials, 3) Biohazards, 4) Vertebrates.

9. **HAZARDOUS WASTE must be properly labeled and contained in approved primary and secondary containers.** See the Station Biologist for specific instructions, labels and containers.
10. This research application must be renewed annually.

IMPORTANT NOTES ON HOUSING

- Reservations for research housing should be made directly with the Itasca program coordinator at 612-624-6743.
- Reservations will be accepted from January 1 – April 1 for the upcoming summer; however, confirmation cannot be made until mid-April when we have an idea of how the teaching sessions are filling up. Special arrangements for long-term, sponsored projects should be made with the program director.
- Research housing arrangements for the summer session made after April 1 will be on a first come, first served basis.

Signature

Please return the application and direct any questions you may have to:

Station Biologist
Itasca Biological Station and Laboratories
28131 University Circle
Lake Itasca, MN 56470

(218) 266-3345

rossx008@umn.edu