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| **INSTRUCTIONS**:* Please complete the form and e-mail iacuc@bowdoin.edu with any questions you may have regarding this form.
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| Version Date: | Enter date when form is first completed or date when form is last updated  |
| Principal Investigator: | Enter text |
| IACUC #: | Enter ‘To Be Determined’ if IACUC # not assigned yet |
| Project Title: | Enter text |

| 1. **SITE LOCATION, SEASONALITY, & ENVIRONMENTAL IMPACT**
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| 1. **Describe the site(s) where the field work or wildlife study will occur**:***Note****: Provide details about the specific location(s) and habitat type(s). Common examples of habitat types include forest, grassland, wetland, desert, ocean, freshwater, mountain, and coastal areas.*

Enter text |
| 1. **Specify the season (e.g., spring, summer, fall, winter) in which the field work or wildlife study will be conducted, along with the time of day (e.g., morning, afternoon, night) when the activities will take place**:

***Note****: Describe the typical temperature range expected during these periods and how it may impact the animals or project activities.* Enter text |
| 1. **Are any target or non-target species expected to be encountered during the field work or wildlife study classified as endangered, threatened, or legally protected?**

[ ]  No [ ]  Yes *(specify the species and classification level below)*Enter text |
| 1. **What are the potential environmental impacts of the field work or wildlife study on the habitat and non-target species?**

***Note****: Describe any manipulations to the surrounding environment (e.g., vocalizations broadcast, food or breeding site alterations, installation of equipment, introducing or removing species, etc.).*Enter text |
| 1. **How will the field work or wildlife study minimize disruption to the environment and local wildlife populations?**

***Note****: When drugs are administered to wild animals, consider the possibility of drug effects when animals fall victim to predators or become carrion for scavengers. Use of chemicals in fish, deer, or other species of interest to sportsman should also be considered.*Enter text |

| 1. **CAPTURE, HANDLING, RESTRAINT, & RELEASE**
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| 1. **Specify the attributes of the field work or wildlife study**:*(select all that apply)*

[ ]  Animals observed at the field work or wildlife study site(s)[ ]  Animals handled at the field work or wildlife study site(s)[ ]  Animals housed or trapped at the field work or wildlife study site(s) for greater than 12 hours[ ]  Animals released at field work or wildlife study site(s)[ ]  Animals transported from field work or wildlife study site(s) to an alternate location (e.g., field processing site, campus)[ ]  Animals returned to, and released at, field work or wildlife study site(s)[ ]  Other *(provide details below)*Enter text |
| 1. **Identify the guidelines you will follow for the proposed research or teaching activity**:

[ ]  [Guidelines of the American Society of Mammologists for the use of wild mammals in research](http://www.mammalsociety.org/uploads/Sikes%20et%20al%202011.pdf)[ ]  [Guidelines to the Use of Wild Birds in Research](https://birdnet.org/wp-content/uploads/2023/09/Guidelines-September-2023.pdf) (The Ornithological Council)[ ]  [Guidelines to the Use of Fishes in Research](https://fisheries.org/docs/wp/Guidelines-for-Use-of-Fishes.pdf) (American Fisheries Society)[ ]  [Guidelines for the Use of Live Amphibians and Reptiles in Field Research](http://www.mammalsociety.org/uploads/Sikes%20et%20al%202011.pdf) (American Society of Ichthyologists and Herpetologists)[ ]  Other *(provide details below)*Enter text |
| 1. **Will the field work or wildlife study involve the capture of wild animals?**

[ ]  No [ ]  Yes *(answer the questions below)*1. Describe all capture/trapping methods (e.g., nets, traps, electrofishing) to be used:

Enter text1. Specify the frequency of checking traps or capture devices:

Enter text1. Specify the length of time animals will be held in traps or capture devices:

Enter text1. Specify whether food, water, and bedding will be provided in the traps or capture devices:

***Note****: A detailed justification must be provided if animals will be held in non-kill traps for more than 12 hours without food and water.* Enter text1. Describe the plan for the removal of traps, barriers, or other equipment from the field work or wildlife study site(s):

Enter text1. What steps will be taken to protect animals from exposure or other dangers during collection?

Enter text1. Describe the potential non-target species that may be caught/trapped and their disposition (e.g., immediately released, euthanized, weighed/measured and then released):

***Note****: Investigators are responsible for maintaining detailed records of any non-target species that are captured or handled and reporting the numbers of these animals in the annual progress report to the IACUC.*Enter text1. What precautions will be taken to reduce non-target captures or mortalities?

Enter text1. Describe historical animal morbidity and mortality rates associated with your capture methods. If expected historical morbidity and mortality are significant, please describe methods that will be used to ameliorate these effects.

Enter text |
| 1. **Will individuals physically handle or restrain wild animals during the field work or wildlife study?**

[ ]  No [ ]  Yes *(answer the questions below)*1. Describe all physical handling or restraint methods (including equipment and sedation) to be used:

***Note****: Specify the number of individuals needed to safely handle and restrain an animal.*Enter text1. Specify the planned duration of physical handling or restraint:

***Note****: If animals will be restrained for longer than 1 hour at a time, a detailed justification is required.* Enter text1. Specify how animals will be monitored for signs of stress, discomfort, or injury during physical handling or restraint:

***Note****: Physical parameters (e.g., temperature, pulse rate) used to determine animal pain and distress should be described. The frequency of measurements and the expected normal ranges for all physiological parameters monitored should be defined. If working with fish, provide details on the water quality parameters that will be assessed and monitored to ensure the well-being of the animals.*Enter text1. Describe any non-invasive manipulations to animals (e.g., weighing and measuring):

Enter text1. What training or experience must individuals have in order to handle or restrain animals for this project?

Enter text |
| 1. **Will the field work or wildlife study involve the collection of bodily fluids or tissue samples from wild animals?**

[ ]  No [ ]  Yes *(answer the questions below)*1. Specify the type of substance (e.g., blood, feces, hair, feathers, muscle tissue, scales) to be collected:

Enter text1. Indicate the method of collection, volumes per sample, frequency of sampling(s), and the total samples per animal:

***Note****: For blood collection, specify the withdrawal site, needle gauge and length, and the estimated percent of blood loss per sample based on the animal’s body mass.* Enter text1. Describe the procedures to be employed to prevent infection at the sample site:

Enter text1. Describe the procedures for monitoring animals for pain and distress following sample collection:

Enter text |
| 1. **Will the field work or wildlife study require the decontamination of equipment used to capture, transport, and/or contain wild animals?** [ ]  No [ ]  Yes *(answer the questions below)*
2. Describe the decontamination procedure:

Enter text1. Specify the frequency of decontamination:

Enter text |

| 1. **MARKING, TAGGING, & TELEMETRY DEVICES**
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| 1. **Will wild animals be marked during the field work or wildlife study?** [ ]  No [ ]  Yes *(answer the questions below)*

***Note****: Examples of animal markers include tattoos, ear notches, fin clipping, or branding.* 1. Describe the type(s) of marker(s) to be used, and their location on the animal:

Enter text1. Provide the rationale for choosing the marker type(s):

Enter text1. How will the marking method(s) impact the animal’s behavior, health, and survival?

Enter text1. What training or experience must individuals have in order to mark animals for this project?

Enter text |
| 1. **Will wild animals be tagged, or fitted with telemetry devices during the field work or wildlife study?**

[ ]  No [ ]  Yes *(answer the questions below)*1. Describe the tag(s) or device(s) to be used:

Enter text1. Provide the rationale for choosing the tag(s) or device(s):

Enter text1. Specify the attachment method to be used, and where the tag or device will be attached to the animal’s body:

***Note****: Indicate if the tag or device is externally attached to the animal or internally implanted.* Enter text1. Specify the size and weight of the tag or device:

Enter text1. Has the tag or device been tested in other studies or on similar species to verify the appropriateness of its size and weight?

Enter text1. How will the tag(s) or device(s) impact the animal’s behavior, health, and survival?

***Note****: Describe any long-term effects of the tag or device used on the animal.* Enter text1. What training or experience must individuals have in order to tag animals for this project?

Enter text |

| 1. **TRANSPORTATION**
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| 1. **Will wild animals be transported from a capture location to a field camp, processing site, or other facility during the field work or wildlife study?** [ ]  No [ ]  Yes *(answer the questions below)*
2. Describe the transportation method(s):

***Note****: Specify the mode of transportation (e.g., car, truck, boat), caging/housing unit, provisions for food and water, control of temperature and environmental conditions during transport.* Enter text1. Specify the length of time the animals will be housed during transportation:

Enter text1. Will animals be transported across state lines or international borders? If yes, are there specific laws or restrictions in these regions that pertain to the transportation of animals?

Enter text1. Describe how stress, illness, or injury to animals be will minimized during transport:

***Note****: When transporting fish, specify if transport tanks have been disinfected before use, provide the tank stocking density, and describe how water quality will be monitored and maintained.* Enter text1. What steps will be taken if an animal shows signs of stress, illness, or injury during transport?

Enter text1. What contingency plans are in place in case of delays, accidents, or emergencies during transport?

Enter text1. What measures will be taken to avoid potential disease transmission to researchers and other animals?

Enter text |

| 1. **HOUSING**
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| 1. **Will animals be temporarily kept or housed in the wild after being released from traps or capture devices?**

[ ]  No [ ]  Yes *(answer the question below)*1. Describe the housing or containment unit (e.g., size and type) to be used:

***Note****: A photograph, drawing, or illustration of the housing unit may help to clarify your description.* Enter text |
| 1. **Will animals captured in the wild be brought back to a Bowdoin facility or laboratory for long-term housing?**

[ ]  No [ ]  Yes *(answer the questions below)*1. What is the scientific purpose for bringing wild animals into the laboratory for long-term housing?

Enter text1. What are the living conditions (e.g., enclosure size, socialization) that will be provided to the animals to ensure their well-being?

***Note****: For research involving fish, specify how housing enclosure(s) will be disinfected or cleaned before/during use.* Enter text1. Describe the routine animal husbandry activities that will be provided during the project:

Enter text1. Will animals undergo a quarantine and acclimation period upon arrival at the laboratory? If yes, what steps will be taken during quarantine and acclimatization?

Enter text1. How will the laboratory housing conditions mimic the animals’ natural environment to minimize stress and promote natural behaviors?

Enter text1. What measures will be taken to monitor the health and well-being of the animals on a daily basis?

Enter text1. What procedures will be followed if an animal shows signs of distress, injury, or health deterioration?

Enter text1. Will wild animals be housed individually or in groups? How will group dynamics be managed to prevent aggression or stress?

Enter text1. Are there any legal or regulatory requirements for housing wild animals in the laboratory (e.g., permits, wildlife protection laws)?

Enter text1. Will animals be returned to the wild after the research or teaching activity is completed?

***Note****: If yes, specify what steps will be taken to ensure animals can safely reintegrate into their natural habitat. If no, specify the final disposition of the animals (e.g., permanent sanctuary, adoption, euthanasia).* Enter text |

| 1. **PERMITS, APPROVALS, OR PERMISSIONS**
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| 1. **Are federal, state, or local permits, approvals, or permissions required to conduct the field work or wildlife study?**

[ ]  No [ ]  Yes *(answer the questions below)*1. Specify the permits, approvals, or permissions that are required:

Enter text1. Have all necessary permits, approvals, or permissions been obtained, or are they in the process of being obtained?

***Note****: IACUC approval will not be granted until all necessary permits, approvals, or permissions are obtained. A copy of all current permits, approvals, or permissions must be provided to the IACUC.* Enter text |

| 1. **POTENTIAL RISKS TO INDIVIDUALS INVOLVED IN FIELD WORK OR WILDLIFE STUDY ACTIVITIES**
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| 1. **Specify the potential hazards associated with the field work or wildlife study**:*(select all that apply)*

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| --- | --- |
| [ ]  Animal handling (scratches, bites, kicks, bruising)[ ]  Needle sticks [ ]  Excessive noise[ ]  Falls, trips, slips[ ]  Fall hazards – working at heights[ ]  Heavy lifting[ ]  Water hazards[ ]  Chemical hazards[ ]  Chemical/waste collection and transport | [ ]  Excessive heat/sunlight[ ]  Excessive cold[ ]  Remote location[ ]  Lost, trapped, stranded[ ]  Mosquitos, ticks[ ]  Venomous or aggressive animals[ ]  Lack of soap and water for hand washing[ ]  Injury or medical emergency[ ]  Other *(describe below)* |

Enter text |
| 1. **Is there potential for individuals involved in the field work or wildlife study to be exposed to zoonotic diseases?**

***Note****: Exposure to zoonotic diseases can occur via handling wild animals, or their tissues, bodily fluids, and/or waste (e.g., feces).* [ ]  No [ ]  Yes *(specify the zoonotic diseases below)*Enter text |
| 1. **Specify the equipment/materials required for the field work or wildlife study**:*(select all that apply)*

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| --- | --- |
| [ ]  Barriers for direct contact with animals[ ]  Safety glasses, goggles, or face shield [ ]  Hard hat (with or without headlight)[ ]  Hearing protection[ ]  Gloves (as appropriate)[ ]  Work boots (hiking, steel toe)[ ]  Personal fall arrest system[ ]  Flotation devices[ ]  Fluorescent orange or reflectorized vests[ ]  Vehicle emergency kit (spare tire, jack, flares)[ ]  Flashlight with extra batteries | [ ]  Light clothing, wide-brimmed hat, sunscreen[ ]  Thermal clothing, blankets, etc.[ ]  Wet suit[ ]  Insect repellant, appropriate clothing[ ]  First aid kit[ ]  Two-way radio and/or cellular phone[ ]  Ability to signal for help (flares, mirror, etc.)[ ]  Extra food, water, clothing[ ]  Soap and water for hand washing[ ]  Other *(describe below)* |

Enter text |
| 1. **How will the potential risks/hazards of the field work or wildlife study be communicated to the individuals participating in the research or teaching activity?**

Enter text |
| 1. **Complete the ‘Risk Assessment Matrix’ located on the last page of this form.**

***Note****: The IACUC will evaluate the completed risk assessment matrix for field work or wildlife study tasks that increase the risk of illness (e.g., zoonotic diseases; handling animal tissues, bodily fluids, or animal waste), physical injury (such as animal bites), and/or other hazards that may impact human health and safety for those individuals who are participating in field work or wildlife study activities.*  |

**Risk Assessment Matrix**

Please delete or insert additional rows as needed in the table below.

| Task No. | Description of the Required Task(s) Involved with the Field Work or Wildlife Study | Description of the Hazard(s) Associated with the Required Task | Planned Approach for Managing the Hazard(s) Associated with the Required Task |
| --- | --- | --- | --- |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |
| 7. |  |  |  |
| 8. |  |  |  |
| 9. |  |  |  |
| 10. |  |  |  |