

Please type, handwritten forms will be returned

2002 Version

Name of Principal Investigator J A	Department CNR	Phone No. 1-888-
Co-Investigator HA	OFFICE USE: Date Rec'd. IACUC #	
Name of Funding Agency Bleak Foundations & Devlieg Foundation	Approved:	Date:
Title of Proposal Taylor Ranch Field Station Wilderness Internship Program		

 PROPOSED PERIOD: June 1, 2005 TO Aug 10, 2005

 Is confidential information contained in the project? Yes No

If yes, please identify by circling item number or highlighting

 Is this a renewal or reapplication of a previously approved project? Yes No

If yes, list last approval IACUC Number.

 Are there any changes to the previously approved project listed above? Yes No

1. ANIMAL PROCUREMENT AND CARE (Attach additional sheets if required)

Species (Breed/Strain) of Animals	Source of Animals	Approx. Total No. of Animals to be Used			Daily Per Diem	Total Days of Care	Total Cost of Care
		C	D	E			
wolf	wild	1					
bear	wild	1					

*For type classification, see instruction sheet enclosed. Type E projects require written justification statement for review.

Bleak Taylor Ranch Wilderness Internship Summer 2005 (12-16-04)

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PURPOSE OF STUDY (In non-scientific terms, describe the overall purpose of the study, the rationale for using animals, and the relevance of the project to human/animal health or biology. For each portion of the study using animals, describe the species, sex, age, and number used. Be concise.)

Student educ. experience

Student Internship intro sentence. Skills taught include radiotelemetry & monitoring, and capture & handling

Student intern activities:

We ^{plants} ~~will be~~ ^{continue to} working with bears and wolves this summer. The bear work is in collaboration with IDFG to determine ~~black~~ black bear adaptation to habitat change post fire and to test GPS technology using ~~our study~~ a small sample of bears (~~the~~ 2) around TRFS. This activity provides the opportunity for students to ^{bear} capture activity also provides a valuable learning and training experience for interns. The wolf aspect involves telemetry monitoring of radio collared wolves to help the Nez Perce Tribe and USFWS document reproductive performance of the Golden Creek pack. Holly and I are listed as volunteer wolf trappers on the NPT permit, and we will attempt to radio-instrument additional wolves (in Monumental Creek) from another pack.

Another part of student training will be to set up remote ^{hair tags} cameras for ^{wolf} bear monitoring at attractant sites within 1 mi. of TRFS. As with either Holly or I will supervise all aspects of this activity

Report to agencies on UTM locations (Students will write these reports)

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3. ANIMAL NUMBERS AND HOUSING AREA

- Laboratory Animal Resources Facility (LARF)
- Dairy Center
- Sheep Center
- NERL Facilities
- Aquaculture Research Institute
- Fish & Wildlife Fish Rooms
- Caine Veterinary Teaching & Research Center
- Hagerman Fish Culture & Experiment Station

- Holm Center Vivarium
- Beef Center
- USDA Hemoparasitic Barn
- Intensive Animal Research Barn
- Aquaculture Laboratory
- Idaho Wildlife Health Laboratory
- Caldwell R&E Center
- Other (please describe)

No animals will be held

Has the proposed study been designed to minimize the number of animals used while still providing scientifically valid results? Provide adequate statistical justification, ie. power calculations, or other information to justify the number of requested animals including a detailed explanation of the experimental design.

Yes, these are ongoing monitoring projects. The number of animals is limited by (1) cost of telemetry collars and (2) testing of prototype remote download radio collars (3) availability of capture opportunities

4. STUDY AREAS

Will animals be taken to a laboratory or other area and maintained for longer than 12 hours? Yes No

If yes, list the room number and building.

5. NAME OF VETERINARIAN (if other than the attending veterinarian for the facility)

*In Advisory capacity not onsite:
Dr. Clarence Benninger for wolf capture & handling through NPT/USFWS
Dr. Mark Drew IDFG/ID Dept Ag for bear capture*

6. ANIMAL USE PROCEDURES (Respond to all items. For all yes responses, provide descriptions and additional information in the blanks provided. Attach additional sheet, if required.)

*Procedures will follow agency protocols Wolf: Nez Perce Tribe manual & rec. of Dr. G.B.
Bear: IDFG? / Jim A?*

- Blood sampling (describe techniques, site of collection, volumes, frequency)
Wolf: cephalic vein 30 CCS purple top 20 CCS red top for NPT/IDFG/USFWS upon capture
- Sampling of urine/feces (indicate method, e.g., metabolism cage, including dimensions of cage, catheterization, frequency of catheterization, other)
- Antibody production (indicate route of administration, volume administered per site, number of sites, adjuvant use and frequency, collection protocol, consideration of alternatives to Freund's adjuvant)
- Administration of drugs (other than anesthetics or analgesics)/reagents/cells/etc. (describe agent, route of administration and frequency, anticipated side effects, monitoring protocol)

*Antibiotic administered "sub q" as per Nez Perce Tribe, wolf capture/handling protocol. Dr. Clarence Benninger is the DVM providing oversight.
Ivermectin*

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- Administration of anesthetics (agent, dose, route; if by inhalation, state method of scavenging waste anesthetic gases/fumes)
 wolf: Telazol mg/kg pole syringe
 bear: Ketamine/Xylazine? mg/kg dart gun
- Administration of analgesics (agent, dose, route, frequency)
- Infectious/potentially infectious agents to humans and/or animals used (describe arrangements for use) Te
- Controlled substance, including anesthetics, e.g., pentobarbital (describe arrangements for use/security) Telazol & Ket
 Controlled substances are secured in a locked box chained to a post in my home. Telazol was provided to me by NPT vet C.B. and Ket. was provided by IDFG vet MP. I am resp. to each vet for maintaining drug use logs and documenting all use & waste of drugs.
- Collection of tissues post euthanasia
- Special diets (describe any anticipated nutritional deficit)
- Indwelling catheters or implants (describe size, type, maintenance/monitoring protocol)
- Restraint (describe method, duration) wolf: capture in rubber jawed foothold traps on loan from NPT. Telemetry trap transmitters to monitor traps throughout night & day (4-6 hours) and visual inspect 1x/day = < 8hr duration
- Behavioral testing without significant restraint or noxious stimuli
- Behavioral testing with significant restraint or noxious stimuli (describe; provide rationale for degree or restraint of stimulus)
- Tumor transplantation (describe any anticipated functional deficit to the animal, monitoring protocol, endpoint)
- Toxicity testing and toxic materials (describe procedure, anticipated side effects, endpoint)
- Nonsurvival surgery (if yes, complete Animal Surgery page)
- Single survival surgery (If yes, complete Animal Surgery page)
- Multiple major survival surgeries involving an individual animal. Multiple major survival surgery is defined as one surgery which penetrates and exposes a body cavity, followed by a second survival surgery which also penetrates and exposes a body cavity or debilitates the animal. (If yes, complete Animal Surgery page)

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— — Procedures involving potential pain, where pain-relieving methods will not be used (completely describe procedures; explain why alternatives are scientifically inappropriate in your written justification for a Type E procedure)

— — Radioisotopes (describe arrangements for use)

7. **METHOD OF EUTHANASIA** (specify method, agent, dosage, and route of administration that will be used either during the normal course of the protocol or in emergencies; the euthanasia method used must be consistent with the AVMA Panel on Euthanasia, Journal of Veterinary Medical Association (Volume 218, No. 5, March 1, 2001), or justification for deviation should be indicated).

→
Clarence

Buthenasia

8. **If animals are not euthanized, indicate their disposition.**

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9. **ALTERNATIVE TO LIVE ANIMAL USE**

Federal law requires that the principal investigator CONSIDER ALTERNATIVES TO PROCEDURES THAT MAY CAUSE MORE THAN MOMENTARY OR SLIGHT PAIN OR DISTRESS TO ANIMALS covered by the Animal Welfare Act and Public Health Service Policy. In order to assure compliance with these regulations, the ACUC requires the following information for all protocols with type D or E animal use.

Do in vitro, non-invasive or non-surgical alternatives to the proposed procedures exist? If yes, state why these alternatives are unacceptable.

NO

If the project involves survival surgery, do models not requiring survival surgery exist? If yes, justify the use of survival surgery.

A written narrative of the results of your search efforts as they pertain to the study is required. Provide information on the methods used and sources consulted to determine the answers to the above questions and how the search results pertain to your study. As a minimum, the database(s) used to search the literature, the date the search was performed, the date ranges searched, the keywords used, and the results obtained should be listed. Additional clarification on what qualifies as valid information for an alternatives search when a database is not used may be found in USDA's Policy 12,

<http://www.aphis.usda.gov/ac/policy/policy12.pdf>

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10. PERSONNEL QUALIFICATIONS

Personnel actively involved with animal components of the project and qualification (as a minimum, should include principal investigator, research technicians, TA, graduate students, etc.)

Individual	Component of project with which involved (e.g., injection, collection of samples, etc.)	Qualifications/ Training/AALAS Certification
J Ake	animal capture & immobiliz	
H Ake	anim capture & immobiliz	

11. Have personnel involved with project attended the seminars on animal use presented by the Institutional Animal Care and Use Committee:

Yes No If yes, date _____

PRINCIPAL INVESTIGATOR ASSURANCE

The information contained on this form provides an accurate description of the animal care and use protocol which will be followed. I agree to abide by governmental regulations and university policies concerning the use of animals. I will allow veterinary care to be provided to animals showing evidence of pain or illness. If the information provided for this project concerning animal use should be revised, or procedures changed, I will so notify the committee of those changes. All proposed changes will not be implemented until full IACUC approval has been granted. I understand that failure to report significant changes may place the university and myself in violation of federal regulations.

As required by federal regulations, *the activities described do not unnecessarily duplicate previous experiments.*

Signature of Principal Investigator

Date

Send original form plus seven copies to the University Research Office, 111 Morrill Hall (885-6651).

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ANIMAL SURGERY INFORMATION

Name of All Participating Surgeons, Technicians and Students	Indicate Certification by Either Training or Experience--Explain

1.

Species Used	Number Used	S = Survival N = Nonsurvival*	Building/Room Where Surgery Performed

*Non-survival surgery animal not allowed to awaken, once anesthetized

2. Check following procedures that apply. If procedure is not listed, please use an additional page and describe completely or attach literature reference article.

Biopsy: target organ/tissue _____
 Laparotomy Intracranial Thoracotomy Orthopedic
 Other _____

3. **PREOPERATIVE PROCEDURES**

Have unhealthy animals been exempted for surgery? Yes No
 Person responsible for evaluating health status of animals: _____

4. **ANESTHETIC PROCEDURES**

Drug	Dose	Route	Duration

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5. POSTOPERATIVE PROCEDURE

Analgesics/ Anti-infective	Dose	Route	Duration

If postoperative analgesics will not be used, provide justification

Sterile technique must be used on all surgical procedures, including non-recovery procedures. This includes a minimum of sterile instruments and gloves, a surgical mask, and surgical scrub of the surgery area. All animals must be attended until they are able to right and stabilize themselves.

CHECK THE FOLLOWING PROCEDURES THAT APPLY TO THIS PROJECT

- Body temperature recorded
- Veterinarian available
- Veterinary technician available during procedure
- Food and water withheld until fully conscious
- Dressing changes (frequency) _____
- Other: describe _____
- Surgical record kept
- Kept on warm blanket until conscious
- Sutures removed at (when) _____
- Notation made when animal eats/drinks

6. Will animals be subjected to more than (1) survival surgery?

Yes No If yes, provide justification for multiple survival surgeries. (Cost is not a valid justification)

7. Describe arrangements for after-hours, weekend and holiday provision of the post-op care of your animals

Bleak Taylor Ranch Wilderness Internship Summer 2005 (12-16-04)

Taylor Ranch Field Station is located along Big Creek, largest tributary of the Middle Fork of the Salmon River, in the heart of the 2.4 million-acre Frank Church River of No Return Wilderness located in central Idaho. The field station is remote, reached either by a trail 34 miles inside the wilderness boundary or by bush plane. Outside communication occurs through a weekly mail plane, a backcountry radio, and a satellite phone. Find out more about Taylor Ranch by going to the web: <http://www.cnrhome.uidaho.edu> and choose "CNR Facilities" Also, a notebook with Taylor Ranch Pictures and information is available for review at the CNR Job Resource Area outside CNR Room 201.

- **Duties:** Interns will be trained in field research and monitoring techniques, wilderness skills and will help with field station maintenance. Research activities will include collecting and analyzing field data for vegetation, wildlife, and recreation projects and assisting scientists with research projects. Wilderness skills will include mule packing, backcountry camping, and orienteering. Ranch work will include cutting firewood with a crosscut saw, haying with mules, transporting gear with pack mules and maintaining facilities.
- **Qualifications:** Wilderness internships are open to all upcoming sophomore and junior as well as returning senior-level University of Idaho students. Interns must be resourceful and self-motivated, enjoy hard physical work, and have enthusiasm for a variety of tasks both at the field station and in the field. Interns must be able to work independently and with others and to deal with isolation from the outside world.
- **Term:** Interns will work at the field station for 10 weeks under the supervision of Holly and Jim Akenson, scientists and field station managers.
- **Salary:** Interns will earn approximately \$2300 for the 10 week period. An additional \$200 will be provided to pay for required internship credit. Lodging at the station and one round-trip plane flight from Cascade to Taylor Ranch is provided. Interns are responsible for providing their own food.

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Biohazard yes no Radioisotope yes no Chemical Carcinogen yes no
 Agent _____ Agent _____ Agent _____

ACUC USE ONLY	Protocol Number		Expiration Date	
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1. Investigator: _____ Dept: _____ Phones: _____
 Co-investigator: _____ Dept: _____ Phones: _____
 Technician: _____ Dept: _____ Phones: _____
 Student: _____ Dept: _____ Phones: _____

2. Species (common names/Estimated numbers per year)

3. Location of animal housing (bldg & rm)

4. Proposed duration of project ___ years 5. Funded by

6. Project Title or Course Name and Number:

7. Abstract of Research/Teaching Plan for the Information of Animal Care Staff

In the space provided, give a brief layman's description of the procedures involving animals.

8. Special Requirements for maintaining animals: no yes. If yes, indicate your requirements below. If you have no special requirements, animals will be maintained according to the standard operating procedure of the vivarium.

a. Temperature range: (°F) _____; humidity (%): _____; light cycle:

b. Caging: type _____; size: _____; filter tops? ; cage changes/wk:

c. Bedding/litter: type _____; autoclaved? ; bedding changes/wk:

d. Type of water (ie sterile, deionized, acidified, tap)

e. Diet and feeding requirements: Special diet?

If other than ad lib feed & water, state amounts:

f. Other Special Instructions for Animal Care Staff:

9. Check all applicable boxes. If more than one box checked per heading, number in order to be accomplished.

Instruction for sick animals

Instructions for Dead Animals

Pest Control

Call Investigator

Call Investigator

None

Clinician to treat

Necropsy

Pest strip

Terminate

Bag for disposal

Pyrethrin Other (specify)

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