

Protocols Involving Field Research

A. There are several sections of the form that pertain specifically to field research or courses that include field research or field trips:

- [Species](#)
 - List the taxa that you will be working with
- [Are You Using?](#)
 - Course information for teaching protocols
 - Personnel safety and permit information for field research
- [Procedures](#)
 - Field studies
 - Animal Identification
 - Other procedures conducted in the field
- [Husbandry](#)
 - Transportation of live or dead animals to or from the field.
 - Non-standard housing requirements, non-standard husbandry or care, exceptions or exemptions
- [Animal Disposition](#)
 - Euthanasia
 - Carcass disposal

1) Species

- a. All species should be listed however, this can be challenging for field researchers working with many species. Since procedures are added *by species*, it may make more sense for the PI to use a higher taxon to describe the animals in this section, and attach a list of species and/or genus in the attachment section. For example, you can use the species designation “Other(birds)” and for the Genus & Species information, indicated “Birds, multiple species - see attached list”. **However, there are several restrictions to this option, as described below in b-e.**

| | |
|--|--|
| Note: * denotes mandatory field. | |
| Species to be Used OK | |
| Common Name * | Other(Bird) |
| Genus & Species | Birds, multiple species - see attached list |
| Animal Sex * | Both |
| Source * | <input checked="" type="checkbox"/> Field <input type="checkbox"/> OLAC Approved Vendors <input type="checkbox"/> Other (Describe) <input type="checkbox"/> PI Breeding Colony <input type="checkbox"/> UCB Collaborator |
| Maximum number of animals for three year project period * | 1830 |
| Note: If breeding animals, the maximum number must include breeders plus all offspring produced. | |

- b. The procedure description for the taxa used in the species section should be identical. For example, if “Other(Birds)” is used for the species, all of the procedures that are designated for “Other(Birds)” should be identical.

- c. If a procedure(s) will be unique to one taxa, that taxa should be listed separately. For example, if a particular procedure is performed on only a certain genus/species of bird, that genus/species should be spelled out the species section.
- d. If you are working with **USDA-covered species**, each target genus and species must be listed for reporting purposes.
- e. If you will be housing **California Fish & Wildlife Restricted Species** in a UC Berkeley facility, each genus and species must be listed for reporting purposes.
- f. You will describe housing of captive wild animals in the Procedure section of the protocol.

2) Are You Using?

- a. **Teaching** - If you will be teaching a course that will conduct field research or participate in field trips that involve manipulating vertebrate animals or altering their natural habitat or behavior, check "Yes" to the first question, "Are you using live vertebrate animals in teaching?"

Click "Yes" and then "Add" to provide additional course information.

- i. Click on the "Add" link to answer specific questions regarding the course. You should submit a separate protocol for each separate course.

- b. **Field Study** - At the bottom of the “Are You Using?” section, check “Yes” to “Field Study or Wildlife Study”.

Click “Yes” and then “Add” to provide additional information.

5. Field Study or Wildlife Study *

☒ Yes ☐ No

NOTE: Additional procedure-based information for field studies is requested under the [Protocol Information](#) section of the Protocol.

Health Precautions for Personnel Add

Please click on Add to add Health Precautions for Personnel

Permit Information Add | Delete

Please click on Add to add Permit Information

Previous Next

Save | Spell Check | Help | Close

- i. Click on the “Add” link to provide information regarding **Health Precautions for Personnel**.

Note: * denotes mandatory field.

Health Precautions for Personnel Save | Cancel

Do any of the species that you will be studying carry zoonotic diseases (e.g., rabies, hantavirus, bird flu)? *

If yes, describe

List the precautions taken to protect personnel, including personnel protective equipment. *

Have you completed a Field Research Safety Plan and shared it with all members of the field research team? *

Please attach a copy of the Field Research Safety Plan in the [attachment](#) section of the Protocol. Refer to the [EH&S web site](#) for guidance

- ii. Click on the “Add” link to provide information regarding **Permit Information**.

Note: * denotes mandatory field.

Permit Information Save | Cancel

Are state, federal or local permit(s) required? *

If yes, list the permits acquired *

Name of the permit holder(s)

Which species or circumstances require permit(s)

Are any species involved in this research under endangered or protected categories (State, Federal or IUCN listed species) *

If yes, explain why this species must be used for research *

If voucher specimens are collected, list the institution(s) where they will be deposited.

3) Procedures

- a. In the **Protocol Information** section of the form, add a **Procedure** and select the **Field Studies** Procedure Type and taxa involved. You will have to add a separate field study for each taxa, but once you create one, you can clone it for the other taxa.

The screenshot shows the Berkeley eProtocol IACUC Quick Guide - Field Studies form. The form is divided into several sections: Personnel Information, Species, Are You Using?, Funding Sources, Protocol Information, and Procedure Details. The Procedure Details section is highlighted with a red arrow. Below this section are tabs for Field Studies, Procedure Description, Anesthetic Regimen, Peri procedure Care/Analgesics, and Other Drugs Utilized. The Field Studies tab is selected, showing a note about permit and personnel safety information, and three numbered sections for Location, Capture, and Monitoring.

Procedure Details

Procedure Type: * Field Studies

Procedure Title: * Field Studies - fish

Species: * Other(Fish) (not hous)

Pain/Distress Category: * C

Maximum number of animals to be used in this procedure for a THREE-YEAR period: * 4300

Was a veterinarian consulted (for D or E studies)? : Yes No

Use Location: Field Study Building Name: * Other

Room Number: * NA

Field Studies

Note: Permit and personnel safety information is requested under the "Are You Using?" section of the protocol.

Methods of animal identification should be described as a separate [Procedure](#). Transportation and non-standard housing information is requested under the [Husbandry](#) section of the protocol.

1. Location - Describe the location of your study area(s) as specifically as possible.

2. Capture - Describe wildlife capture (live capture or kill trapping), including: time of day traps will be set and disarmed, equipment used, planned duration of trapping/restraint, monitoring schedule for traps, how animals will be protected from the elements or predators, and potential for trapping non-target species. If anesthesia will be used, please note that here, and complete the [Anesthetic Regimen](#) tab.

3. Monitoring - Describe the frequency and parameters (e.g., temperature, pulse rate, respiration rate, and capillary refill time) that will be monitored to ensure the health of captured animals. Provide a plan for addressing physiological parameters outside of normal ranges.

- b. Complete the questions on the **Field Studies** tab under Procedure Details
- Location** - Describe the location of your study area(s) as specifically as possible.
 - Capture** - Describe wildlife capture (live capture or kill trapping), including: time of day traps will be set and disarmed, equipment used, planned duration of trapping/restraint, monitoring schedule for traps, how animals will be protected from the elements or predators, and potential for trapping non-target species. If **anesthesia** will be used, please note that here, and complete the **Anesthetic Regimen** tab.
 - Monitoring** - Describe the frequency and parameters (e.g., temperature, pulse rate, respiration rate, and capillary refill time) that will be monitored to ensure the health of

captured animals. Provide a plan for addressing physiological parameters outside of normal ranges.

- iv. **Restraint** - Describe physical restraint and handling procedures following capture, including methods, equipment, duration, and observation schedule. If animals will be restrained longer than 1 hour, complete the **Prolonged Restraint** question under the **Husbandry** section of the protocol. For guidance, please refer to [the ACUC Guideline on Physical Restraint of Unanesthetized Animals](#).

- v. **Housing of Captive Wild Animals**

Note: For guidance, please refer to the [ACUC Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#) and [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#).

- a) Will captive animals be held for 12 hours or less?

If yes, please describe the planned duration of captivity, the temporary holding facilities, cage size/type, feeding strategies, plan for maintaining a suitable environment, and release procedures. If possible, attach a photograph, drawing or illustration of the holding facility in the Attachments section of the protocol.

- b) Will captive animals be housed for more than 12 hours?

If yes, please describe the planned duration of housing and, if applicable, the duration of quarantine and plan for acclimatization. If **non-standard housing or husbandry practices** will be used, please describe these in the **Husbandry** section of the protocol.

- vi. **Decontamination** - Describe decontamination procedures for any equipment that will be used to capture, transport, contain, etc. animals.
- vii. **Recapture** - If animals will be recaptured, please describe and include the maximum number of times an animal would be recaptured.
- viii. **Release, Euthanasia, Other Disposition** - If animals will be released, describe pre-release conditioning, the site and time of release, and any permits required for such release. Describe **euthanasia** methods under the **Animal Disposition** section of the protocol. Note: Even if euthanasia is not planned, a method must be described in the event of an emergency.
- c. The **Procedure Description** tab is used to provide an overview of the Field Study procedure. If you will be performing additional procedures not described in i-viii above, (e.g., animal identification/markings, blood collection, tissue collection, surgery), you should **add these as separate procedures for each taxa**.
- d. If you will be performing anesthesia in the field for anything described in i-viii above, complete the **Anesthetic Regimen** tab.
- e. If you provide **Peri-procedure Care and/or Analgesics**, complete this tab.
- f. If you administer any other compounds not described in the previous tabs, complete the **Other Drugs Utilized** tab.

4) Husbandry

- a. **Transportation** - If animals (live or dead) will be transported to or from the field, describe how they will be transported and measures to be taken to avoid potential disease transmission to researchers and other animals. Transportation of animals must conform to the [ACUC Animal Transportation Guidelines](#). If not transporting, check "None".

The screenshot shows the 'Husbandry' tab selected in the top navigation bar. The left sidebar contains a menu with 'Husbandry' highlighted. The main content area includes sections for 'Proposed Housing Location' (OLAC Vivarium and Other Location) and 'Animal Transportation'. The 'Animal Transportation' section has a 'None' checkbox selected. Below this, there are three checkboxes for different transport scenarios: 'Between rooms within the same building on the UC Berkeley campus', 'Between buildings on the UC Berkeley campus', and 'Between institutions (i.e. do not include original order delivery to UCB)'. A 'FIELD STUDIES' section at the bottom provides instructions for transporting animals to or from the field.

b. Non-Standard Housing Requirements

- i. If captive wild animals will be housed for greater than 12 hours, cage/pen size or cage sanitation intervals are non-standard, animals will be cared for by investigators, and/or rodents will be housed on wire-bottom cages, click 'Add'.

The screenshot shows the 'Non-Standard Housing Requirements' section. At the top, there is a 'None' checkbox. Below it, a paragraph instructs users to check and describe all non-standard housing requirements. A list of links is provided for guidance: 'Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals', 'Aquatic Frog Housing Density', 'Guidelines for Investigators Who Manage Mouse Breeding Programs', and 'Rat Housing Guidelines'. At the bottom, there is a table with one row titled 'Non-Standard Housing Requirements' and two buttons: 'Add' and 'Delete'. A red arrow points to the 'Add' button.

- ii. Select the species, non-standard housing type, and provide a description and justification.

iii. For guidance on standards, see the following ACUC Guidelines:

- [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#)
- [Aquatic Frog Housing Density Guidelines](#)
- [Rat Housing Guidelines](#)
- [Investigator Care of Vertebrate Animals](#)

c. **Exceptions/Exemptions**

i. For any that apply, click 'Add', select the species, and describe and provide justification. If none apply, check "None" at the top of the list.

Exceptions/Exemptions
☐ None
Save

Please check and describe any non-standard environmental requirements, diets, husbandry equipment or animal care. Include which species are affected. For guidance, please refer to ACUC's [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#) and [Fasting Animals, Special/Regulated Diets/Water/Housing Policy, Physical Restraint of Unanesthetized Animals](#).

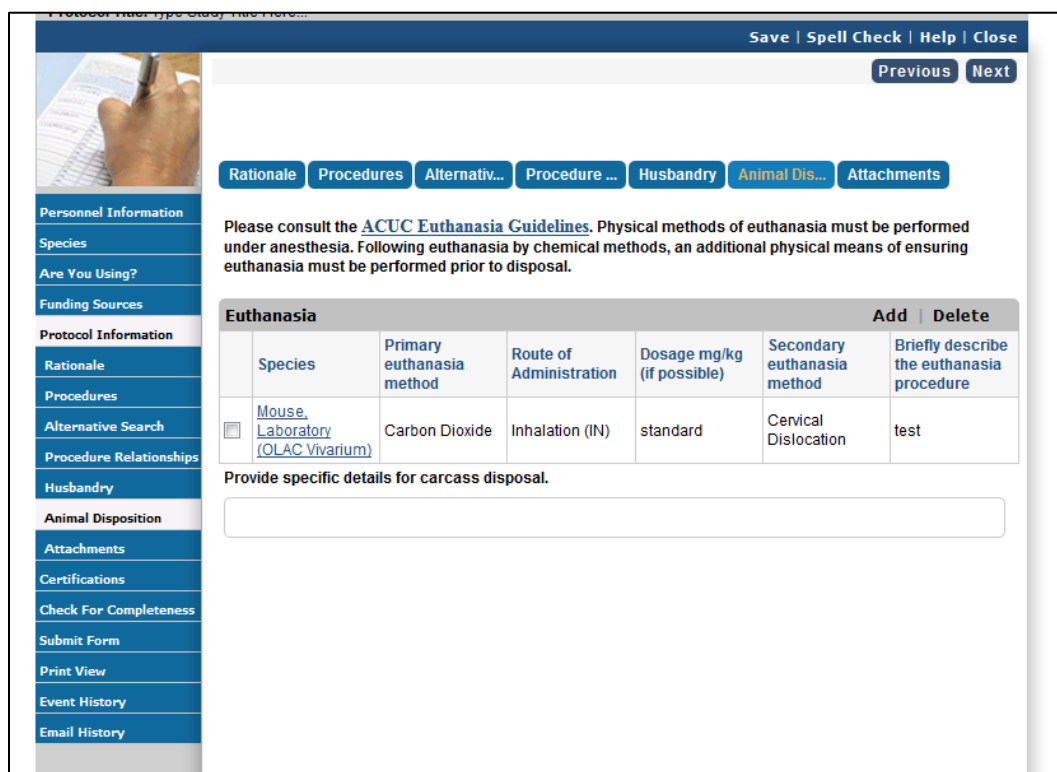
| | |
|--|--------------|
| Non-Standard Lighting Cycles | Add Delete |
| Please click on Add to add Non-Standard Lighting Cycles | |
| Non-Standard Housing Temperature Ranges | Add Delete |
| Please click on Add to add Non-Standard Housing Temperature Ranges | |
| Telemetry or Tether Devices | Add Delete |
| Please click on Add to add Telemetry or Tether Devices | |
| Individually Housed | Add Delete |
| Please click on Add to add Individually Housed | |
| Exemption from Standard Enrichment | Add Delete |
| Please click on Add to add Exemption from Standard Enrichment | |
| Other | Add Delete |
| Please click on Add to add Other | |
| Food Restriction | Add Delete |
| Please click on Add to add Food Restriction | |
| Fluid Restriction | Add Delete |
| Please click on Add to add Fluid Restriction | |
| Prolonged Restraint (>15 min) | Add Delete |
| Please click on Add to add Prolonged Restraint (>15 min) | |

ii. For guidance on standard practices, see the ACUC Guidelines:

- [Guidance on Exceptions Regarding Housing or Husbandry of Laboratory Animals](#)
- [Fasting Animals, Special/Regulated Diets/Water/Housing Policy](#)

5) Animal Disposition

- Even if you plan to release animals and not euthanize them, you must provide a method of euthanasia that will be used in case of injury to the animal.
- Add a method of euthanasia for each taxa listed in the species section of the protocol.
- Please consult the [ACUC Euthanasia Guidelines](#). Physical methods of euthanasia must be performed under anesthesia. Following euthanasia by chemical methods, an additional physical means of ensuring euthanasia must be performed prior to disposal.
- Describe the plan for **carcass disposal**. If you plan to transport carcasses from the field, be sure to check the **Transportation** box on the **Husbandry** section of the protocol.



The screenshot shows a web-based form for protocol management. The top navigation bar includes 'Save | Spell Check | Help | Close' and 'Previous | Next' buttons. A sidebar on the left lists various sections: Personnel Information, Species, Are You Using?, Funding Sources, Protocol Information (highlighted), Rationale, Procedures, Alternative Search, Procedure Relationships, Husbandry, Animal Disposition (selected), Attachments, Certifications, Check For Completeness, Submit Form, Print View, Event History, and Email History. The main content area has tabs for Rationale, Procedures, Alternativ..., Procedure ..., Husbandry, Animal Dis... (selected), and Attachments. Below the tabs, a text block states: 'Please consult the [ACUC Euthanasia Guidelines](#). Physical methods of euthanasia must be performed under anesthesia. Following euthanasia by chemical methods, an additional physical means of ensuring euthanasia must be performed prior to disposal.' Below this is a table titled 'Euthanasia' with columns: Species, Primary euthanasia method, Route of Administration, Dosage mg/kg (if possible), Secondary euthanasia method, and Briefly describe the euthanasia procedure. The table contains one entry for 'Mouse, Laboratory (OLAC Vivarium)' with 'Carbon Dioxide' as the primary method, 'Inhalation (IN)' as the route, 'standard' dosage, 'Cervical Dislocation' as the secondary method, and 'test' as the description. Below the table, a text box prompts the user to 'Provide specific details for carcass disposal.' with an empty input field.

| Species | Primary euthanasia method | Route of Administration | Dosage mg/kg (if possible) | Secondary euthanasia method | Briefly describe the euthanasia procedure |
|--|---------------------------|-------------------------|----------------------------|-----------------------------|---|
| <input type="checkbox"/> Mouse, Laboratory (OLAC Vivarium) | Carbon Dioxide | Inhalation (IN) | standard | Cervical Dislocation | test |

Provide specific details for carcass disposal.