



## INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

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Dr. Luis Cifuentes  
Associate Vice President for  
Research

To: Dr. Luis Cifuentes, Institutional Official, IACUC

From: Institutional Animal Care and Use Committee  
Dr. Shanna Ivey, IACUC Chair

Subject: Semiannual Evaluation of Institutional Animal Care and Use  
program and inspection of facilities

Date: May 1, 2019

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the PHS Policy on Humane Care and Use of Laboratory Animals and as a condition of this institution's Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), and USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

#### **Evaluation of the Animal Care and Use Program**

The IACUC conducted its semiannual evaluation of the institution's animal care and use program on **May 1, 2019**, using the *Guide for the Care and Use of Laboratory Animals*, the *Guide for the Care and Use of Agricultural Animals in Research and Teaching*, and, as applicable, 9 CFR Chapter I, 2.31. The program review involved discussion of the NMSU protocol review process, the facility inspection process, and other issues related to the animal care program. The OLAW Semiannual Program Review Checklist was used for the program review. The NMSU Animal Care and Use Program conforms to *PHS Policy*, the *Guide for the Care and Use of Laboratory Animals*, applicable Animal Welfare Regulations, and the *Guide for the Care and Use of Agricultural Animals in Research and Teaching*.

#### **Inspection of Animal Facilities**

The IACUC inspected the animal facilities on **April 24, 26, and 29, 2019**, using the *Guide for the Care and Use of Laboratory Animals*, the *Guide for the Care and Use of Agricultural Animals in Research*

*and Teaching* and, as applicable, 9 CFR Chapter I, 2.31. No minor or major deficiencies were observed.

**Minor Deficiencies**

**Minority Views:** None

**Signatures**

**IACUC Members:**

**Shanna Ivey, Chair**

Shanna Ivey

**Tim Wright**

Tim Wright

**Trey Miller**

Trey Miller

**Scott Eschenbrenner**

Scott Eschenbrenner

**Shanna Ivey**

**Colleen Caldwell**

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**Erin Weich**

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Dr. Luis Cifuentes  
Associate Vice President for  
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To: Dr. Brandon Bestelmeyer, USDA-ARS Jornada Institutional  
Official, IACUC

From: Institutional Animal Care and Use Committee  
Dr. Shanna Ivey, IACUC Chair

Subject: Semiannual Evaluation of Institutional Animal Care and Use  
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Date: May 1, 2019

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#### **Inspection of Animal Facilities**

The IACUC inspected the Jornada animal facilities on **April 26, 2019**, using the *Guide for the Care and Use of Laboratory Animals*, the *Guide for the Care and Use of Agricultural Animals in Research*



*and Teaching* and, as applicable, 9 CFR Chapter I, 2.31. No major or minor deficiencies were observed. The dedication displayed by this group to animal welfare is appreciated.

**Minority Views:** None

**Signatures**

**IACUC Members:**

**Shanna Ivey, Chair**

Shanna Ivey

**Tim Wright**

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**Trey Miller**

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**Erin Weich**

Erin Weich

# I. Semiannual Program Review Checklist <sup>i</sup>

## Institutional Policies and Responsibilities

Date:

1. Animal Care and Use Program <sup>NEW</sup>	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>Responsibility for animal well-being is assumed by all members of the program (Guide, p 1) <b>met</b></li> <li>IO has authority to allocate needed resources (Guide, p 13)</li> <li>Resources necessary to manage program of veterinary care are provided (Guide, p 14) <b>met</b></li> <li>Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the Guide (Guide, pp 11, 15)</li> <li>Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)</li> <li>Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site (Guide, p 14) <b>met</b></li> <li>Inter-institutional collaborations are described in formal written agreements (Guide, p 15)</li> <li>Written agreements address responsibilities, animal ownership, and IACUC oversight (Guide, p 15)</li> </ul>	✓				
2. Disaster Planning and Emergency Preparedness <sup>NEW</sup>	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p 75) <b>met</b></li> <li>Plans include provisions for euthanasia (Guide, p 35) <b>met</b></li> <li>Plans include triage plans to meet institutional and investigators' needs (Guide, p 35)</li> <li>Plans define actions to prevent animal injury or death due to HVAC or other failures (Guide, p 35)</li> <li>Plans describe preservation of critical or irreplaceable animals (Guide, p 35)</li> <li>Plans include essential personnel and their training (Guide, p 35)</li> <li>Animal facility plans are approved by the institution and incorporated into overall response plan (Guide, p 35)</li> <li>Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (Guide, p 35)</li> </ul>	✓				
3. IACUC <sup>NEW</sup>	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>Meets as necessary to fulfill responsibilities (Guide, p 25) <b>met</b></li> <li>IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (Guide, p 26) <b>met</b></li> <li>Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)</li> <li>IACUC evaluates the effectiveness of training programs (Guide, p 15)</li> </ul>	✓				
4. IACUC Protocol Review - Special Considerations	A*	M	S	C	NA
<ul style="list-style-type: none"> <li>Humane endpoints are established for studies that involve tumor models, infectious diseases, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologic effects, organ or system failure, and models of cardiovascular shock (Guide, p 27)</li> <li>For pilot studies, a system to communicate with the IACUC is in place (Guide, p 28)</li> <li>For genetically modified animals, enhanced monitoring and reporting is in place (Guide, p 28)</li> <li>Restraint devices are justified in the animal use protocols (Guide, p 29) <b>met</b></li> <li>Alternatives to physical restraint are considered (Guide, p 29)</li> <li>Period of restraint is the minimum to meet scientific objectives (Guide, p 29)</li> <li>Training of animals to adapt to restraint is provided (Guide, p 29)</li> <li>Animals that fail to adapt are removed from study (Guide, p 29)</li> <li>Appropriate observation intervals of restrained animals are provided (Guide, p 29)</li> <li>Veterinary care is provided if lesions or illness result from restraint (Guide, p 30) <b>met</b></li> </ul>	✓				



<ul style="list-style-type: none"> <li>• Explanations of purpose and duration of restraint are provided to study personnel (<i>Guide, p 30</i>)</li> <li>• Multiple surgical procedures on a single animal are justified and outcomes evaluated (<i>Guide, p 30</i>)</li> <li>• Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide, p 30</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide, p 30</i>)</li> <li>• Animals on food/fluid restriction are monitored to ensure nutritional needs are met (<i>Guide, p 31</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Body weights for food/fluid restricted animals are recorded at least weekly (<i>Guide, p 31</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Daily written records are maintained for food/fluid restricted animals (<i>Guide, p 31</i>)</li> <li>• Pharmaceutical grade chemicals are used, when available, for animal-related procedures (<i>Guide, p 31</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (<i>Guide, p 31</i>)</li> <li>• Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (<i>Guide, p 32</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Disposition plans are considered for species removed from the wild (<i>Guide, p 32</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Toe-clipping only used when no alternative, performed aseptically and with pain relief (<i>Guide, p 75</i>)</li> </ul>	✓				
<b>5. IACUC Membership and Functions</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>• IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)</li> <li>• Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide, p 24</i>)<sup>ii</sup></li> <li>• IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide, p 14</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)</li> <li>• Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)</li> <li>• Methods for reporting and investigating animal welfare concerns are in place (<i>Guide, p 23</i>) <del>PHS</del></li> <li>• Reviews and investigates concerns about animal care and use at institution<sup>iii</sup> (PHS Policy, IV.B.)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Procedures are in place for review, approval, and suspension of animal activities<sup>iv</sup> (PHS Policy, IV.B.)</li> <li>• Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>• Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (<i>Guide, p 27-32</i>)</li> <li>• Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS<sup>v</sup> (<i>Guide, p 30</i>) <del>PHS</del></li> </ul>	✓				
<b>6. IACUC Training</b> <sup>NEW</sup>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>• All IACUC members should receive: <ul style="list-style-type: none"> <li>◦ Formal orientation to institution's program (<i>Guide, p 17</i>)</li> <li>◦ Training on legislation, regulations, guidelines, and policies (<i>Guide, p 17</i>)</li> <li>◦ Training on how to inspect facilities and labs where animal use or housing occurs (<i>Guide, p 17</i>)</li> <li>◦ Training on how to review protocols as well as evaluate the program (<i>Guide, p 17</i>)</li> <li>◦ Ongoing training/education (<i>Guide, p 17</i>)</li> </ul> </li> </ul>	✓				
<b>7. IACUC Records and Reporting Requirements</b> <sup>vi</sup>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>• Semiannual report to the IO (PHS Policy, IV.B.) <ul style="list-style-type: none"> <li>◦ Submitted to IO every 6 months</li> <li>◦ Compiles program review and facility inspection(s) results (Includes all program</li> </ul> </li> </ul>	✓				

and facility deficiencies)					
o Includes minority IACUC views					
o Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure <sup>vii</sup>	✓				
o Distinguishes significant from minor deficiencies	✓				
o Includes a plan and schedule for correction for each deficiency identified <sup>viii</sup>					
• Reports to OLAW (PHS Policy, IV.F.)					
o Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views	✓				
o Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy noncompliance (NOT-OD-05-034)	✓				
o Institute must promptly advise OLAW of any suspension of an animal activity by the IACUC (NOT-OD-05-034)	✓				
• Reports to U.S. Department of Agriculture (USDA) or Federal funding agency <sup>x</sup>					
o Annual report to USDA contains required information including all exceptions/exemptions	✓				
o Reporting mechanism to USDA is in place for IACUC-approved exceptions to the regulations and standards					
o Reports are filed within 15 days for failures to adhere to timetable for correction of significant deficiencies	✓				
o Promptly reports suspensions of activities by the IACUC to USDA and any Federal funding agency	✓				
• Records (PHS Policy, IV.E.)					
o IACUC meeting minutes and semiannual reports to the IO are maintained for 3 years	✓				
o Records of IACUC reviews of animal activities include all required information <sup>x</sup>					
o Records of IACUC reviews are maintained for 3 years after the completion of the study	✓				
<b>8. Veterinary Care (See also next section - Veterinary Care)</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care <sup>x</sup>	✓				
• Veterinary access to all animals is provided ( <i>Guide</i> , p 14) <del>must</del>					
• Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use ( <i>Guide</i> , p 14) <del>must</del>					
• Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol ( <i>Guide</i> , p 5) <del>must</del>	✓				
• Veterinarian provides consultation when interventional control is not possible ( <i>Guide</i> , p 5) <del>must</del>	✓				
• If part time /consulting veterinarian, visits meet programmatic needs ( <i>Guide</i> , p 14)	✓				
• Regular communication occurs between veterinarian and IACUC ( <i>Guide</i> , p 14)					
• Veterinarian(s) have experience and training in species used ( <i>Guide</i> , p 15) <del>must</del>	✓				
• Veterinarian(s) have experience in facility administration/management ( <i>Guide</i> , p 15)					
<b>9. Personnel Qualifications and Training</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: <del>must</del>	✓				
o Veterinary/other professional staff ( <i>Guide</i> , p 15-16)					
o IACUC members ( <i>Guide</i> , p 17)	✓				
o Animal care personnel ( <i>Guide</i> , p 16)					
o Research investigators, instructors, technicians, trainees, and students ( <i>Guide</i> , pp 16-17)	✓				
• Continuing education for program and research staff provided to ensure high quality care and reinforce training ( <i>Guide</i> , pp 16-17)	✓				
• Training is available prior to starting animal activity ( <i>Guide</i> , p 17)					
• Training is documented ( <i>Guide</i> , p 15)	✓				
• Training program content includes: ( <i>Guide</i> , p 17)					
o Methods for reporting concerns ( <i>Guide</i> , p 17)	✓				
o Humane practices of animal care (e.g., housing, husbandry, handling) <sup>xii</sup>	✓				
o Humane practices of animal use (e.g., research procedures, use of anesthesia,					



pre- and post-operative care, aseptic surgical techniques and euthanasia ( <i>Guide</i> , p 17) <sup>xiii</sup>					
o Research/testing methods that minimize numbers necessary to obtain valid results ( <i>PHS Policy</i> , IV.A.1.g.)	✓				
o Research/testing methods that minimize animal pain or distress ( <i>PHS Policy</i> , IV.A.1.g.)	✓				
o Use of hazardous agents, including access to OSHA chemical hazard notices where applicable ( <i>Guide</i> , p 20)	✓				
o Animal care and use legislation ( <i>Guide</i> , p 17)					
o IACUC function ( <i>Guide</i> , p 17)	✓				
o Ethics of animal use and Three R's ( <i>Guide</i> , p 17)					

#### 10. Occupational Health and Safety of Personnel A\* M S C NA

• Program is in place and is consistent with federal, state, and local regulations ( <i>Guide</i> , p 17) <b>must</b>	✓				
• Program covers <i>all</i> personnel who work in laboratory animal facilities ( <i>Guide</i> , p 18)					
• Changing, washing, and showering facilities are available as appropriate ( <i>Guide</i> , p 19)					
• Hazardous facilities are separated from other areas and identified as limited access ( <i>Guide</i> , p 19)	✓				
• Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) ( <i>Guide</i> , p 20)					
• Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) ( <i>Guide</i> , p 20)	✓				
• Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place ( <i>Guide</i> , p 21)					
• Personal Protective Equipment for the work area is appropriate and available ( <i>Guide</i> , p 21)					
• Program for medical evaluation and preventive medicine for personnel includes:	✓				
o Pre-employment evaluation including health history ( <i>Guide</i> , p 22)					
o Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate ( <i>Guide</i> , p 22)					
o Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) ( <i>Guide</i> , p 23)	✓				
o Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. ( <i>Guide</i> , p 23)					
o Promotes early diagnosis of allergies including preexisting conditions ( <i>Guide</i> , p 22)	✓				
o Considers confidentiality and other legal factors as required by federal, state and local regulations ( <i>Guide</i> , p 22) <b>must</b>	✓				
o If serum samples are collected, the purpose is consistent with federal and state laws ( <i>Guide</i> , p 22) <b>must</b>	✓				
• Waste anesthetic gases are scavenged ( <i>Guide</i> , p 21)	✓				
• Hearing protection is provided in high noise areas ( <i>Guide</i> , p 22)					
• Respiratory protection is available when performing airborne particulate work ( <i>Guide</i> , p 22)	✓				
• Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:					
o Tuberculosis screening provided for all exposed personnel ( <i>Guide</i> , p 23)					
o Training and implementation of procedures for bites, scratches, or injuries associated with macaques ( <i>Guide</i> , p 23)	✓				
o PPE is provided including gloves, arm protection, face masks, face shields, or goggles ( <i>Guide</i> , p 21)					
o Injuries associated with macaques are carefully evaluated and treatment implemented ( <i>Guide</i> , p 23)	✓				
• Occupational safety and health of field studies is reviewed by OSH committee or office ( <i>Guide</i> , p 32)					

#### 11. Personnel Security A\* M S C NA

• Preventive measures in place include pre-employment screening, and physical and IT security ( <i>Guide</i> , p 23)	✓				
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12. Investigating & Reporting Animal Welfare Concerns <small>NEW</small>		A*	M	S	C	NA
• Methods for Investigating and reporting animal welfare concerns are established ( <i>Guide</i> , p 23) <del>PHS</del>		✓				
• Reported concerns and corrective actions are documented ( <i>Guide</i> , p 24)						
• Mechanisms for reporting concerns are posted in facility and at applicable website with instructions ( <i>Guide</i> , p 24)		✓				
o Includes multiple contacts ( <i>Guide</i> , p 24)						
o Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection ( <i>Guide</i> , p 24)		✓				

\* A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

## NOTES:



## Veterinary Care

Date:

1. Clinical Care and Management <small>NEW</small>		A*	M	S	C	NA
• Veterinary program offers high quality of care and ethical standards (Guide, p 105)	<b>must</b>	✓				
• Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p 106)		✓				
• Veterinarian provides oversight to surgery and perioperative care (Guide, p 106)		✓				
• Veterinary care program is appropriate for program requirements (Guide, pp 113-114)		✓				
• Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (Guide, p 114)		✓				
• Procedures to triage and prioritize incident reports are in place (Guide, p 114, )						
• Procedures are in place to address:						
o Problems with experiments to determine course of treatment in consultation with investigator (Guide, p 114)		✓				
o Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114)						
o Veterinary review and oversight of medical and animal use records (Guide, p 115)						
• Procedures established for timely reporting of animal injury, illness, or disease (Guide, p 114) <b>must</b>		✓				
• Procedures established for veterinary assessment, treatment, or euthanasia (Guide, p 114) <b>must</b>						
• Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p 114) <b>must</b>		✓				
2. Animal Procurement and Transportation/Preventive Medicine		A*	M	S	C	NA
• Procedures for lawful animal procurement are in place (Guide, p 106) <b>must</b>		✓				
• Sufficient facilities and expertise are confirmed prior to procurement (Guide, p 106)		✓				
• Procurement is linked to IACUC review and approval (Guide, p 106)						
• Random source dogs and cats are inspected for identification (Guide, p 106)						✓
• Population status of wildlife species is considered prior to procurement (Guide, p 106)						
• Appropriate records are maintained on animal acquisition (Guide, p 106)		✓				
• Animal vendors are evaluated to meet program needs and quality (Guide, p 106)		✓				
• Breeding colonies are based on need and managed to minimize numbers (Guide, p 107)		✓				
• Procedures for compliance with animal transportation regulations, including international requirements, are in place (Guide, p 107) <b>must</b>		✓				
• Transportation is planned to ensure safety, security and minimize risk (Guide, p 107)		✓				
• Movement of animals is planned to minimize transit time and deliveries are planned to ensure receiving personnel are available (Guide, pp 107- 108)		✓				
• Appropriate loading and unloading facilities are available (Guide, p 109)		✓				
• Environment at receiving site is appropriate (Guide, p 109)		✓				
• Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112)		✓				
• Procedures in place for quarantine to include zoonoses prevention (Guide, p 110)		✓				
• Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110)		✓				
• Procedures in place for stabilization/acclimation (Guide, pp 110-111)		✓				
• Policies in place for isolation of sick animals (Guide, p 112)		✓				
• Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112)		✓				
• Diagnostic resources are available for preventive health program (Guide, p 112)						
3. Surgery		A*	M	S	C	NA
• Surgical outcomes are assessed and corrective changes instituted (Guide, p 115)		✓				
• Researchers have appropriate training to ensure good technique (Guide, p 115) <b>must</b>		✓				



<ul style="list-style-type: none"> <li>Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) (<i>Guide, p 116</i>)</li> <li>Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved (<i>Guide, p 116</i>)</li> <li>Surgical procedures including laparoscopic procedures are categorized as major or minor (<i>Guide, pp 117-118</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean (<i>Guide, p 118</i>)</li> <li>Aseptic technique is followed for survival surgical procedures (<i>Guide, pp 118-119</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (<i>Guide, p 119</i>)</li> <li>Procedures for monitoring surgical anesthesia and analgesia are in place (<i>Guide, p 119</i>)</li> <li>For aquatic species, skin surfaces are kept moist during surgical procedures (<i>Guide, p 119</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (<i>Guide, pp 119-120</i>)</li> </ul>	✓				
<b>4. Pain, Distress, Anesthesia and Analgesia</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (<i>Guide, p 121</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Selection of analgesics and anesthetics is based on professional veterinary judgment (<i>Guide, p 121</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Painful procedures are monitored to ensure appropriate analgesic management (<i>Guide, p 122</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Nonpharmacologic control of pain is considered as an element of postprocedural care (<i>Guide, p 122</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Procedures are in place to assure antinociception before surgery begins (<i>Guide, p 122</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (<i>Guide, p 122</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Special precautions for the use of paralytics are in place to ensure anesthesia<sup>xiv</sup> (<i>Guide, p 123</i>)</li> </ul>	✓				
<b>5. Euthanasia</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (<i>Guide, p 123</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (<i>Guide, pp 123-124</i>)</li> <li>Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide, p 124</i>)</li> <li>Procedures and training are in place to ensure death is confirmed (<i>Guide, p 124</i>)</li> </ul>	✓				
<b>6. Drug Storage and Control</b>	<b>A*</b>	<b>M</b>	<b>S</b>	<b>C</b>	<b>NA</b>
<ul style="list-style-type: none"> <li>Program complies with federal regulations for human and veterinary drugs (<i>Guide, p 115</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Drug records and storage procedures are reviewed during facility inspections (<i>Guide, p 115</i>)</li> </ul>	✓				
<ul style="list-style-type: none"> <li>Procedures are in place to ensure analgesics and anesthetics are used within expiration date (<i>Guide, p 122</i>)</li> <li>Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (<i>Guide, p 122</i>)</li> </ul>	✓				

\* A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

## NOTES:

Semiannual Checklist

v3/8/2012

8

Obtained by Rise for Animals.

Uploaded to Animal Research Laboratory Overview (ARLO) on 09/09/2020

## Signature Page – OLAW Checklist

### IACUC Members

### Signatures

Shanna Ivey, Chair

*Shanna Ivey*

Tim Wright

*Tim Wright*

Trey Miller

*Trey Miller*

Clint Löest

Colleen Caldwell

*Colleen Caldwell*

Scott Eschenbrenner

*Scott Eschenbrenner*

Erin Weich

*Erin Weich*

# NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Animal Care Facility

Inspection Date: 4/26/19

IACUC Inspectors:

*Pin Chen*  
*Clint Loest*  
*Heidi*  
*ERat*

Other Individuals Present:

*Justin Apodaca*  
*Alfredo Martinez*  
*Shirley*

### I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols	✓		
B. Availability of Standard Operating Procedures	✓		
C. Availability of Daily Logs	✓		
D. IACUC Certification for Personnel	① ✓	① ✓	① Jordyn Gallegos and Amanda Santos have done WST but need vacs for certificates. ① Dr. Wright + Greg Kohn need WST certificates added
E. Animal Worker Safety Training for Personnel	① ✓	① ✓	① Dominique Hellmich - expired CITI but doing it now. ① None of Dr. Xu training for him and his students are available w/ protocol.

## II. Room 102 East

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Budgies	74	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

### III. Room 106 East

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Budgies	32	H <sup>0</sup>	C	S	C	S	S	S

Comments and/or Explanation any I or U:

① One that was egg bound is not thriving.



**IV. Room 109 East – General Storage Lab**

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Breakroom only		

Comments and/or Explanation any I or U:

**V. Room 111 West**

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
mice	10	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

# VI. Room 113 West

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
3 love birds	3	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:



# VII. Room 115 West

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
		empty						

Comments and/or Explanation any I or U:

# VIII. Room 110 East

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
budgies	34	H	C	S	C	S	S	S ⊕

Comments and/or Explanation any I or U:

① Sewer gas smell- Alfred has had maintenance out to work on issue.

# IX. Room 114 East

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)

Comments and/or Explanation any I or U:

Storage

**X. Room 116 East**

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)

Comments and/or Explanation any I or U:

Storage

# XI. Room 122 East

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)

Comments and/or Explanation any I or U:

**XII. Room 104 – Maintenance and Storage**

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
S	S	S

Comments and/or Explanation any I or U:

**XIII. Room 107 Surgery**

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
S	S	S

Comments and/or Explanation any I or U:

**XIV. Room 108 – Physical Plant**

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
S	S	S

Comments and/or Explanation any I or U:



#### IV. Room 112 – Feed Storage

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
S	S	S

Comments and/or Explanation any I or U:

#### IV. Animal Care Facility - Overall Facility

1. **Previous Inspections** - Do follow-up items from the last inspection need attention?

None

2. **Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

A. **Significant Deficiencies:**

None

B. **Minor Deficiencies:**

None

3. **IACUC Recommendations:**

- 1) Add Dominique H's training to notebook.
- 2) Add Dr. Xu's training to notebook - add memo of where to (+ students)
- 3) Add Dr. Wrights + G. Kohns AWST to find it notebook

# NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Animal and Range Sciences Metabolism/Physiology Building Facility Inspection

Inspection Date: 4-24-19

IACUC Inspectors:

*Scott Eschenbrenner*  
*Tracy Miller*

Other Individuals Present:

*Clint Loost*  
*Ryan Ashley RA*

### I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols <i>Ashley - 2020</i> <i>Loost - 10/21</i> <i>Gifford - none active</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B. Availability of Standard Operating Procedures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C. Availability of Daily Logs <i>Ryan - ok</i> <i>Loost - none active</i>	<input type="checkbox"/>	<input type="checkbox"/>	
D. IACUC Certification for Personnel <i>Ashley ✓</i> <i>Prosser - 2020</i> <i>Maxim - 2019</i> <i>Trego - 2020</i> <i>Boren - 2019</i> <i>Dobson - 2021</i> <i>Gifford - 2020</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Cathey ✓</i> <i>Lopez ✓</i> <i>Mercier ✓</i> <i>Loost ✓</i>
E. Animal Worker Safety Training for Personnel <i>Ashley ✓</i> <i>Loost ✓</i> <i>Gifford</i> <i>Prosser ✓</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Cathey ✓</i> <i>Lopez ✓</i> <i>Mercier ✓</i>

*Trego ✓*  
*Boren ✓*  
*Maxim ✓*  
*Dobson ✓*

## II. Large Animal Surgery/Recovery Rooms

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)

Comments and/or Explanation any I or U:

Fire Extinguisher - 7/18 good for 1 year  
 Surgery Room - used for storage, check for cleanliness concerns  
 need to remove red wooden surgical table

### III. Individual Holding Pen Room (North East Animal Room)

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
	0					S	S	S

Comments and/or Explanation any I or U:

leaking roof from recent rain

#### IV. Cattle Metabolism Room

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
	0					S	S	S

Comments and/or Explanation any I or U:

## V. Sheep Metabolism Room

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
	0					S	S	S

Comments and/or Explanation any I or U:

Multiple students using room for grinding & feed process which could be an issue when housing animals in same bldg.  
no Fire extinguisher

## VI. ANRG Metabolism/Physiology Research Unit - Overall Facility

### 1. Previous Inspections - Do follow-up items from the last inspection need attention?

*Seperate Training records now exists  
Small water leak fixed  
Light bulbs replaced when needed  
Fire extinguishers*

2. Deficiencies - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

#### A. Significant Deficiencies:

*None*

#### B. Minor Deficiencies:

*None*

### 3. IACUC Recommendations:

*water leak  
mixing students who process feed w/ sheep used for studies*



# NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Biology Annex – Frog and Fish Rooms and Aviary

Inspection Date: April 29, 2019 @ 10:00 - Noon

IACUC Inspectors: Colleen Caldwell  
Scott Eschenbrenner

Other Individuals Present: Colleen Caldwell  
Tim Wright  
Dustin Apodaca  
Scott Eschenbrenner

### I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols <u>fish lab</u> <u>Aviary</u>	✓ ✓		<u>But protocol expired; no work going on;</u> <u>all's (one expired PI can not available);</u>
B. Availability of Standard Operating Procedures <u>fish</u> <u>Aviary</u>	✓ ✓		<del>Not</del>
C. Availability of Daily Logs <u>fish</u> <u>Aviary</u>	✓ NA		
D. IACUC Certification for Personnel <u>fish</u> <u>Aviary</u>	✓	✓	<u>PI - Vinger and lab tech (M. McDowell) expired - old records need to</u> <u>be removed</u> <u>unavailable</u>
E. Animal Worker Safety Training for Personnel <u>fish</u> <u>Aviary</u>	✓	✓	<u>not available</u>

II. Room 106A Biology Annex – Frog Room

*used as storage for fish food & equipment*

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)

Comments and/or Explanation any I or U:

### III. Room 106B Biology Annex – Fish Room (Ungez)

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Electric fish	0	NA	NA	NA	NA	NA	NA	NA
Gold fish	19	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

- Expired protocol, but no Electric fish (exp. 3/19)
- Scott's IACUC Review included (tailfish?)
- one expired CITI; one current

#### IV. Aviary

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
	0	H	NA	S	NA	S	S	S

Comments and/or Explanation any I or U:

all birds moved to Animal Care facility for winter.

Citi/Animal Welfare:

✓ Wright well (in progress)

✓ Sierra ✓

✓ Ryan ✓

✓ Justin ✓

## VI. Biology Annex - Overall Facility

1. **Previous Inspections** - Do follow-up items from the last inspection need attention?

~~None~~

Fish handling lab in Foster had all logs, CITI, and SOP's. ~~None~~

2. **Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

- A. **Significant Deficiencies:**

*none*

- B. **Minor Deficiencies:**

*none*

3. **IACUC Recommendations:**

*none*

# NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Biology – Foster Hall Animal Rooms

Inspection Date: 4.29.19

IACUC Inspectors:

*Scott Eschenbrenner*  
*Caitlin Caldwell*

Other Individuals Present:

*Johnnie Dapone*  
*Dr Xu*  
*Tim Wright*  
*Nina Joffe*

### I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols			
Room 220 – Hansen <i>135</i> <i>Nish</i>	✓		
Room 243 – Teaching Lab	✓		
Room 431 - Xu	✓		<i>Xu, Xu, moon, Anti ✓</i>
B. Availability of Standard Operating Procedures			
Room 220 – Hansen <i>135</i> <i>Nish</i>	✓		
Room 243 – Teaching Lab	✓		
Room 431 - Xu	✓		<i>No Date</i>
C. Availability of Daily Logs			
Room 220 – Hansen <i>135</i>	✓		
Room 243 – Teaching Lab	✓		
Room 431 - Xu	✓		<i>Very Good</i>
D. IACUC Certification for Personnel			
Room 220 – Hansen <i>135</i>	✓		<i>Randy Carroll - expires 11/18 - only 1 out of 20</i>
Room 243 – Teaching Lab <i>Amy</i>	✓		
Room 431 - Xu	✓		
E. Animal Worker Safety Training for Personnel			
Room 220 – Hansen <i>135</i> <i>Squire</i>		✓	<i>not necessary</i>
Room 243 – Teaching Lab <i>Amy</i>	✓		
Room 431 - Xu	✓		



## II. Foster Hall Room 220 – Dr. Immo Hansen PI

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
no active protocols								
no plans to train								

Comments and/or Explanation any I or U:

### III. Foster Hall 243 – Teaching Lab

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Tank 1: Danio + Corydora	0							
Tank 2: Corydora 5P + Xiphophorus 5	9	N	C	S	S	C	S	S
Tank 3: Corydora	6							
Tank 4: Sword 5 + Zebra 8	13							
Tank 5: Danio-Zebra	5	N	C	S	S	C	S	S
6: Cory 2 + Zebra 5	7							
7: Sword	5							
8: Sword 3 Zebra 2 Cory 2	7							

Comments and/or Explanation any I or U:

IV. Foster Hall 431 – Dr. John Xu PI

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Mice	8	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

Dr. Xu - requested a copy of inspection  
update expiration of mice feed  
 4. month they go through feed bag

**V. Foster Hall 135 – Squid Room**

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Adult Squids	20	H	C	C	C	C	S	S
Baby Squids	lots							

Comments and/or Explanation any I or U:

## **VI. Biology Foster Hall - Overall Facility**

**1. Previous Inspections** - Do follow-up items from the last inspection need attention?

**2. Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

### **A. Significant Deficiencies:**

*None*

### **B. Minor Deficiencies:**

*None*

**3. IACUC Recommendations:**

*Date on SOP*

## NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Fish, Wildlife and Conservation Ecology Facility

Inspection Date: 4/24/19IACUC Inspectors: Dr. LOEST  
SCOTT ESCHENBRENNER  
TREY MILLER

Other Individuals Present:

*Scott Eschenbrenner*  
*Trey Miller*  
*Dr. Loest*  
*C. Caldwell*

## I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols	✓		
B. Availability of Standard Operating Procedures	✓		
C. Availability of Daily Logs	✓		
D. IACUC Certification for Personnel	✓		
E. Animal Worker Safety Training for Personnel	✓		

CITI Inspection

✓



## II. Knox Hall Room 144 – Main Fisheries Laboratory

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Brook Trout	125	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

### III. Knox Hall Room 143 – Teaching Laboratory

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
AFRICA EURASIA FEEDER FISH	<del>3</del> 9 5	H	C	S	C	S	S	S
S. AMERICA N. AMERICA AUSTRALIA	5 3 8	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:

#### **IV. FWCE Knox Hall Fish Facility - Overall Facility**

**1. Previous Inspections** - Do follow-up items from the last inspection need attention?

*None*

**2. Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

**A. Significant Deficiencies:**

*None*

**B. Minor Deficiencies:**

*None*

**3. IACUC Recommendations:**

*None*

? Equestrian center?

NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

Animal and Range Sciences Horse Farm

Inspection Date: April 25, 2019 @ 1:00

IACUC Inspectors:

Colleen Caldwell CAC  
Erin Weich EWW

Other Individuals Present:

Joby Priest



I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols	✓		(4) Teaching protocols only (no active research) no active teaching protocol
B. Availability of Standard Operating Procedures	✓		
C. Availability of Daily Logs	✓		
D. IACUC Certification for Personnel	✓		
E. Animal Worker Safety Training for Personnel	✓		

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## II. Individual Stall Barn

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
	0	NA	NA	NA	NA	S	S	S

Comments and/or Explanation any I or U:

### III. Stallion Barn

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Stallion	3	H	C	S	C	S	S	S

Comments and/or Explanation any I or U:



#### IV. Group pens and pastures

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
group pens	4 mares 4 foals 1 geldy	H H H	C	<del>C</del> pasture/pens	C	S	S	N/A
	2 pregnant mares 3 mares 3 foals 7 yearlings	H H H H						
	4 yearling fillies 8 mares (bred) 3 fillies (2 & 3 yr)	H H H						

Comments and/or Explanation any I or U: 3 Ranch horses

41 total

## VI. Horse Farm - Overall Facility

1. **Previous Inspections** - Do follow-up items from the last inspection need attention?

*no follow-up is needed from last inspection*

2. **Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

A. **Significant Deficiencies:** *none*

B. **Minor Deficiencies:** *none*

3. **IACUC Recommendations:** *none*

NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

Inspection Date: 4/26/19 Jornada Experimental Range Headquarters

IACUC Inspectors: Richard Weich Other Individuals Present: Jarvis Hatcher  
Clint Loest GH

I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols	✓		
B. Availability of Standard Operating Procedures	✓		
C. Availability of Daily Logs	✓		
D. IACUC Certification for Personnel	✓		
E. Animal Worker Safety Training for Personnel	✓		

## II. Group Pens and Pastures

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Cattle	179	H	C	S	S but needs algae cleaned out	S	S	S

Comments and/or Explanation any I or U:

### III. Biology Foster Hall - Overall Facility

1. **Previous Inspections** - Do follow-up items from the last inspection need attention?

None

2. **Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

A. **Significant Deficiencies:**

None

B. **Minor Deficiencies:**

None

3. **IACUC Recommendations:**

Remove all old training records. Research ways to improve algae control in tanks.

# NEW MEXICO STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

## Livestock Entomology Facility

Inspection Date: 4/24/19

IACUC Inspectors: Scott Eschenbrenner  
Traci Lynn Welch EdM

Other Individuals Present: Charley Davis (Ero)  
Brandon Smythe BS

### I. IACUC Requirements for the Facility:

	Yes	No	Comments
A. Availability of Approved Protocols *	✓		1 protocol exps. 7/20 2017-014 * Amend to add Figueroa, Ramirez, Garcia and Gomez and remove Wilson and Gonzales
B. Availability of Standard Operating Procedures	✓		
C. Availability of Daily Logs			
D. IACUC Certification for Personnel		✓ not all	Missing or expired Sanchez 12/18 G
E. Animal Worker Safety Training for Personnel		✓ not all	Missing Brandon, Zepeda, Sanchez, Figueroa, Gomez - Brandon will contact Joanne for certificates.

Figueroa



## II. Main Office/Animal Handling

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Cattle NA	0							
Cattle (temporary outdoor holding pens)	8	H	C	S	C	S	S	NA

Comments and/or Explanation any I or U:

### III. Large Holding Pens South of Main Building

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Cattle	11 <del>48</del>	H	C	S	C	S	S	NA

Comments and/or Explanation any I or U:

#### IV. Large Holding Pens East of Main Building

Type of Animal (species)	Number of Animals	Animal(s)				Facility		
		Appearance/Health/Condition (H = Healthy/normal; U = unhealthy; O = other, explain)	Feed (C = clean, appropriate storage; I = improper, explain)	Cleanliness of Pens (S = satisfactory; U = unsatisfactory)	Availability of water (C = clean; U = if unsatisfactory, explain; N = not available)	Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
Cattle	29	H	C	S	C	S	S	NA

Comments and/or Explanation any I or U:

**V. Feed Preparation and Storage Area**

Facility		
Cleanliness / sanitation (S = satisfactory, U = if unsatisfactory explain)	Water supply/plumbing (S = satisfactory, U = if unsatisfactory explain)	Heating/cooling/ventilation (S = satisfactory, U = if unsatisfactory explain)
S	NA	NA

Comments and/or Explanation any I or U:

## VI. Livestock Entomology - Overall Facility

1. **Previous Inspections** - Do follow-up items from the last inspection need attention?

No

2. **Deficiencies** - Must be addressed in the time frame indicated. For each deficiency, specify the plan and schedule for correction. Deficiencies must be corrected promptly but within a reasonable time frame that assures full compliance by the deadline specified. **These deficiencies must be reported to the Institutional Official.**

A. **Significant Deficiencies:**

None

B. **Minor Deficiencies:**

None

3. **IACUC Recommendations:**

Update training records, organizing training notebook, Remove old records