

NADC-ACUC Semiannual Program Review and Animal Facility Inspection

1920 Dayton Ave, Ames, IA 50010

Research Unit Inspected: All	Dates of Insp 4/24/2018
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1. Summary of Animals

Location	PI	ACUP	Species	#	Location	PI	AC
(b) (6)	(b) (6)	2870	Cattle	8	(b) (6)	(b) (6)	2016-
		534	Goats	11		empty	
		2017-603	pig	12		(b) (6)	2017-
	empty					empty	
	(b) (6)	2829	Sheep	29		(b) (6)	2809
		701/506	Sheep	28		empty	
		701/506	Sheep	23		empty	
		16-508	Chickens	33		empty	
	empty					empty	
	(b) (6)		Elk	10		(b) (6)	2855
			Elk	10			2015-
			Cattle	6			2017-
		2017-665	Cattle	3			2015-
		2017-665	Cattle	3			2017-
		2017-665	Cattle	3			2017-
		2017-665	Cattle	4			2017-
	empty						2017-
	empty						2017-
	(b) (6)	2017-665	Cattle	9		empty rooms	
		2017-665	Cattle	9		(b) (6)	2017-
		2017-665	Cattle	8			2819
		2017-695	Deer	38			2018-
		2017-695	Deer	16			2017-
		2017-695	Deer	23			2017-
		2870	Cattle	8			2018-

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(b) (6)	(b) (6)	2016-529 /2016-478	Cattle	8/2	(b) (6)	J. Greenlee	2870
		2017-687	Cattle	10		empty	
		2017-610	Turkeys	63		empty	
		2016-551	Bison	6	(b) (6)		2829
		2016-551/ 2015-460	Bison	20/1			2017-
	empty					Feed Storage	
	(b) (6)	2016-551	Bison	7		airlocks (b) (6)	
		2819	Cattle	8		Feed & Bedding	
		2015-551 /2015-460	Elk	16/1		empty (b) (6)	
		2015-551 /2015-460	Elk	16/1	(b) (6)		670
		2017-687	Cattle	13			628/6
		2018-722	Cattle	10			628
		2018-722	Cattle	8			548
		2016-511	Cattle	20			548
		2016-511	Cattle	24		Empty (b) (6)	
					(b) (6)		
		2017-695	Deer	2		Rooms (b) (6)	
		2017-667	Deer	18		Empty (b) (6)	
					(b) (6)		

2. Significant Deficiencies/Recommendations: (any item which may be a threat to the health or safety of the animals, include : each deficiency)

Location	Issue	Correction by

None seen

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3. Minor Deficiencies/Recommendations: (items not in compliance with the Animal Welfare Act, *Guide for the Care and Use of Mammals in Neuroscience and Behavioral Research*)

Location	Issue	Correction by
(b) (6)	loose stool observed on a daily basis from 01Apr-13Apr; include in the animal records how the situation is being handled	6/1/2018
	loose stool observed on 01-02Apr and 04-05Apr but no VC was circled	6/1/2018
	3/31/18 no afternoon sign off on Daily Observation sheet	6/1/2018
	Daily Observation Records have multiple afternoon checks not indicated	6/1/2018
	Records indicate on 9/27/17 will continue to monitor Bison (b) (6) next entry is 10/19/17 with no notation of resolution.	6/1/2018
	multiple instances where Daily Observation Sheets do not record all animal checks (1/31/17 and 3/31/18 no record of observation)	6/1/2018
	Animals (b) (6) and (b) (6) treatment was recorded on 12-14-17, however no resolution was noted, and several records were damp. Records not updated with recent shearing and vaccination.	6/1/2018

4. Maintenance Items:

- Buildings** (b) (6) – Emergency lighting needs to be checked monthly. Lights had flashing red, solid red, and some a (b) (6) Mats in hallways could use replacing.
- (b) (6) Paint coming off some of the walls
- (b) (6) Fenceposts rotting around the paddocks- work order in and plans to fix after weaning lambs
- (b) (6) Hay feeders need replacing. They are falling apart- repairs tried but still problems.
- (b) (6) Replace doors as sometimes they do not open at all. Consider placing chute on cinderblock versus a wooden pa cement.
- (b) (6) White panel gates need replaced so not frozen to the ground
- (b) (6) (b) (6) Debris in drains. This was also noted in hallway drains.
- (b) (6) Feed bin has hole in it where feed spilled out (boot of feed bin)
- (b) (6) Fencing issues are noted, several loose posts along fence, loose post at base noted along paddock perimeter.
- (b) (6) : Gutters with holes or damage.
- (b) (6) feed bunk wires need to be re-taped.
- (b) (6) broken boards east of working chute

5. Comments/Suggestions for Program Improvement:

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(b) (6) Some cobwebs up high on the west side.

(b) (6) Remove items such as outdated supplies, such as media in walk in cooler.

(b) (6) Recommend a new wheel barrow.

(b) (6) Consider purchasing better fencing

Animal caretaker indicates preference for concrete/steel pipe fencing vs the "chain-link" style of fencing on the

(b) (6) Buffers for sample collection left over from previous experiment had reached expiration date. Set out for

(b) (6) Hay on trailer discolored and smelled off, it appeared that the sub optimal hay was loaded on the center of the trailer stacked around it. Trailer was heavily sorted, a large pile of undesirable hay discarded on the floor.

(b) (6) Container of Virkon in the necropsy was expired.

(b) (6) There is loose bedding material accumulated on the ground in the front of the building- could be

(b) (6) In milking parlor area, a face shield is present with the entire interior surface covered in dust. PPE such as safety glasses should be stored properly (in bag) between use to avoid issues such as these. Some sharps containers at capacity. Appropriate sharps containers is needed. Organization of the dairy shop area could be improved. The fire extinguisher was hidden in Dairy shop. Storing metal dairy pen parts right next to a live operating transformer is not recommended. Sand shed is in general

Records notes: cases in which written information was crossed out, but no reason listed as to why. Suggest that when crossing out, the reason for the cross-out is stated and initialed (eg, written on wrong animal record, redundant event, etc). Record sheets are set up mainly to record procedures, but they have relatively small areas to make individual notes on animal health. Combination of procedure records and individual health records for animals that have an issue that needs to be documented.

Dairy Cattle: Discord between paper records at barn with electronic database. Animals had been bred which was confirmed but at the barn, there was no notation on paper records.

Door Card: Green door cards used for animals known infected with Mycobacterium Paratuberculosis; while the animal is not actively infected on protocol, it is an animal pathogen and door card should be yellow?

No fire extinguishers in the vicinity of the (b) (6)

Signs are posted in barn that state process for reporting welfare concerns. Placement in more prominent location not cards/sheets.

Difficult to evaluate compliance with protocols as they are not printed and placed in barn with animal records.

6. Positive Comments:

Overall all inspected areas were in good shape. Animal information was accessible, accurate and up to date. Areas and animals appeared healthy and happy.

The animals were well cared for, were provided enrichment, and in general the barns were in good order and organized

(b) (6) was clean and well-organized

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Facility escorts were knowledgeable about the animals housed within each facility. Overall, the level of animal care were provided enrichment and exhibited healthy behavior. (b) (6) animal records were well organized and current.

(b) (6) All areas clean and orderly. Staff had no issues with work conditions or maintenance items. Cage wash records had labels for various issues to clearly designate cages for further monitoring.

(b) (6) comments: all areas were clean, organized, and well equipped for upcoming animal studies.

(b) (6) present at inspection appeared clean and well maintained.

(b) (6) Good record of environmental issues/filter changes. Good record tracking of eggs/birds.

(b) (6) Changes made to electric fencing have improved performance and security.

(b) (6) Barns and animals appear in good condition. Animals appear clean and well cared for.

(b) (6) Good signage as to what is required for daily care – amount of feed for specific pens, etc.

7. Signatures:

(b) (6)

5/10/18

(b) (6)

10 May 18

(b) (6)

10 May 2018

(b) (6)

5/10/18

(b) (6)

5/10/18

(b) (6)

(b) (6)

10 May 2018

(b) (6)

(b) (6)

(b) (6)

(b) (6)

(b) (6)

April 2018



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June 14, 2018

SUBJECT: Semiannual Evaluation of Animal Care and Use Program and Facilities Inspection

TO: Marcus E. Kehrli, Director
National Animal Disease Center

From: (b) (6) Chair
Institutional Animal Care and Use Committee

This represents the Semiannual Report of the Institutional Animal Care and Use Committee (IACUC) to the Institutional Official as required by the Animal Welfare Act with associated regulations and as required by the PHS Policy as a condition of this Institution's Animal Welfare Assurance with the Office of Laboratory Animal Welfare.

Review of the Animal Care and Use Program

The IACUC's semiannual review of the institution's animal care and use program was completed on April 30, 2018. All aspects of the program are consistent with Animal Welfare regulations and PHS guidelines.

Inspection of Animal Facilities

The IACUC completed the semiannual review of the animal facilities on April 30, 2018. No major deficiencies were found.

Minor deficiencies are listed below. Listed on attached inspection reports are several maintenance items, most involve minor repairs. ARU has completed maintenance items, or work orders to correct them have been submitted, see attached memo from Dr. Crocheck.

Location	Minor Deficiency	Plan/Schedule
(b) (6)	Loose stool observed on a daily basis from 01Apr-13Apr; include in the animal records how the situation is being handled	These animals were tested positive for Johne's disease and the diarrhea was expected. Further notations regarding the situation have been made in the Group Record for (b) (6)
	Loose stool observed on 01-02Apr and 04-05Apr but no VC was circled	The VMO and caretaker walked through the group soon after the inspection. One deer that was especially affected was euthanized and necropsied on 17 May.
	3/31/18 no afternoon sign off on Daily Observation sheet	Email reminder to ARU on May 16 emphasizing proper daily documentation. In addition, the records are being checked regularly for compliance. Specific individuals are being held accountable for record gaps via individual counseling or personnel actions in some cases.



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(b) (6)	Daily Observation Records have multiple afternoon checks not indicated	Email reminder to ARU on May 16 emphasizing proper daily documentation. In addition, the records are being checked regularly for compliance. Specific individuals are being held accountable for record gaps via individual counseling or personnel actions in some cases.
	Records indicate on 9/27/17 will continue to monitor bison (b) (6) next entry is 10/19/17 with no notation of resolution	The scientific staff were contacted to remind them of the importance of documenting resolution of clinical issues in the records. They updated the record.
	Multiple instances where Daily Observation Sheets do not record all animal checks (1/21/17 and 3/31/18 no record of observation)	Email reminder to ARU on May 16 emphasizing proper daily documentation. In addition, the records are being checked regularly for compliance. Specific individuals are being held accountable for record gaps via individual counseling or personnel actions in some cases.
	Animals (b) (6) treatment was recorded on 12-14-17, however no resolution was noted, and several records were damp. Records not updated with recent shearing and vaccination.	Email reminder to ARU on May 16 emphasizing proper daily documentation and records. Clarification on the situation for these two animals – they are rams that butted heads and had abrasions. The record notation did not indicate further treatment or explicit resolution. Records have been updated to verify resolution. In the future, the VMO plans to be more specific about resolution or treatment plans. The shearing and vaccination status has been updated in all animal records.

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Signatures

Names of Committee Members

Signatures

(b) (6)

(b) (6)

(b) (6)

(b) (6)

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(b) (6)



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June 14, 2018

SUBJECT: Ames Facility Inspection Items Update

TO: (b) (6) Chairperson
NADC Animal Care and Use CommitteeFROM: (b) (6) Attending Veterinarian
Animal Resources Unit Leader

This is an update regarding the maintenance items and suggestions for improvement noted in the April 2018 inspection report of the NADC animal facilities located in Ames, Iowa.

Maintenance Items:

Bldg. #	Problem	Action
(b) (6)	Emergency lighting needs to be checked monthly. Lights had flashing red, solid red, and some areas no light.	Lighting in (b) (6) as well as (b) (6) is working as indicated by a green light. The following work orders were submitted and have been completed: (b) (6) 2018010659 (b) (6) 2018010660 (b) (6) 2018010586 The emergency lighting in the wings will be checked regularly.
(b) (6)	Mats in hallway could use replacing.	Mats were moved out of the hallway.
(b) (6)	Paint coming off some of the walls.	WO#2016009222 has been submitted. Completion is pending due to rooms still being occupied with deer on a TSE study.
(b) (6)	Fence posts rotting around the paddocks – work order in and plans to fix after weaning lambs.	WO#2017018466 (submitted 9/27/17). Plan to complete after lambs are weaned.
(b) (6)	Hay feeders need replacing. They are falling apart – repairs tried but still problems.	New hay feeders have been ordered.
(b) (6)	Replace doors as sometimes they do not open at all. Consider placing chute on cinderblock versus a wooden pallet. Need new fencing around cement.	The cinderblocks would put the chute up too high for the handlers to access the deer. The fencing is aging but does not pose immediate hazards to the animals. We will continue to monitor it.
(b) (6)	White panel gates need replaced so not frozen to the ground.	Plans are for the deer to be moved elsewhere. The gates do not pose any

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		hazards to the animals and will continue to be evaluated.
(b) (6)	(b) (6) had debris in the drains. This was also noted in hallway drains.	Drains have been cleaned.
(b) (6)	Feed bin has a hole in it where feed spilled out (boot of feed bin).	Hole has been patched temporarily. Boot will be replaced when the bin is empty (WO#2018011752).
(b) (6)	Fencing issues are noted, several loose posts along fence, loose post at base noted along paddock perimeter.	Immediate issues have been addressed with temporary repairs. These pastures are the top priority for fence replacement.
(b) (6)	Gutters with holes or damage.	WO#2015000980, 2015000986, and 2015000987 are submitted.
(b) (6)	Feed bunk wires need to be re-taped	Completed. Confirmed on May 25, 2018.

Additional Comments:

Bldg. #	Problem	Action
(b) (6)	Some cobwebs up high on the west side.	The area has been cleaned.
(b) (6)	Remove items such as outdated supplies, such as media in walk in cooler.	Outdated media and supplies are being discarded.
(b) (6)	Recommend a new wheel barrow.	A new wheelbarrow has been acquired.
(b) (6)	Consider purchasing better fencing.	Chains and stronger latches will be obtained for this pen prior to occupation by deer later this summer.
(b) (6)	Animal caretaker indicates preference for concrete/steel pipe fencing vs. the "chain link" style of fencing on the South side of the barn.	Penning does not pose a hazard to the animals and will need to be considered lower in priority for replacement.
(b) (6)	Buffers for sample collection left over from previous experiment had reached expiration date. Set out for proper disposal, not an issue.	This item was addressed during inspection.
(b) (6)	Hay on trailer discolored and smelled off, it appeared that the sub optimal hay was loaded on the center of the trailer and fresher hay was stacked around it. Trailer was heavily sorted, a large pile of undesirable hay discarded on the floor.	Unacceptable bales were sorted and stacked separately. Those bales were returned to the vendor on May 7, 2018 when they brought a new load.
(b) (6)	Container of Virkon in the necropsy was expired.	The container was discarded and replaced.
(b) (6)	There is loose bedding material accumulated on the ground in the front of the building – could be cleaned up a bit.	This area was cleaned up on May 4, 2018.

(b) (6)	In milking parlor area, a face shield is present with the entire interior surface covered in dust. PPE such as safety glasses and face shield should be stored properly (in bag) between use to avoid issues such as these. Some sharps containers at capacity. Appropriate labeling of all secondary containers is needed. Organization of the dairy shop area could be improved. The fire extinguisher was hidden in Dairy Barn work shop/maintenance bay. Storing metal dairy pen parts right next to a live operating transformer is not recommended. Sand shed is in general disrepair.	The face shield was cleaned and placed in a clean bag for storage. Full sharps containers were disposed of properly. Labels were placed on the secondary containers (done and verified May 25, 2018). The gates that were next to the transformer shed have been moved (Done and verified by May 2, 2018). The fire extinguisher was located and is in a more prominent location. Options for replacing the sand shed are being considered.
Records Notes	Cases in which written information was crossed out, but no reason listed as to why. Suggest that when record is amended in this manner, the reason for the cross-out is stated and initialed (e.g., written on wrong animal's record, redundant event, etc.) Some of the animal record sheets are set up mainly to record procedures, but they have relatively small areas to make individual notes on animal health issues. Recommend a combination of procedure records and individual health records for animals that have an issue that needs to be documented.	Email reminder to ARU on May 16 emphasizing proper daily documentation. This email also reminded staff of proper correction of mistakes – cross out with single line and initial, along with the reason. Specific records had explanations added for the corrections.
Dairy Cattle	Discord between paper records at barn with electronic database. Animals had been bred which was captured in electronic database, but at the barn, there was no notation on paper records.	Current Artificial Insemination attempts are being recorded in the paper record.
Door card	Green door cards used for animals know infected with Mycobacterium Paratuberculosis; while the animals were procured for positive status and not actively infected on protocol, it is an animal pathogen and door card should be yellow.	This item was discussed at the May IACUC meeting. The door cards have now been replaced with yellow ones.
Fire extinguishers	No fire extinguishers in the vicinity of the Field Barns.	This will be discussed further with the Safety and Security Unit.
Animal Concern signs	Signs are posted in barn that state process for reporting welfare concerns. These warrant placement in more prominent location not hidden behind other door cards/sheets.	Reminder in May 16 email to ARU that these signs are to be posted in animal facilities. The email also reminded staff to be sure they are not covered by other paperwork.

ACUPs	Difficult to evaluate compliance with protocols as they are not printed and placed in barn with animal records.	This was discussed at the May IACUC meeting. Current plan is to take the ACUP files along in the vehicle during inspections.
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If you have further questions, please contact me at extension (b) (6)