

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 48-R-0001
CUSTOMER NO. 1494

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code):

KANSAS STATE UNIVERSITY
203 FAIRCHILD HALL, (b)(2)High, (b)(7)f
KSU CAMPUS
MANHATTAN, KS 66506

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS/sites:

(b)(2)High, (b)(7)(F)



REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	3	272	312		584
5. Cats	2	64	3		67
6. Guinea Pigs					
7. Hamsters	64	100			100
8. Rabbits	6	50	20		70
9. Non-Human Primates					
10. Sheep					
11. Pigs	3	16	35		51
12. Other Farm Animals					
13. Other Animals					
Horses	37	36	36		72
Alpacas		12			12
Wild Rats		107	5		112

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

JAN 22 2008

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional official)

(b)(6), (6)(7)(C)

OFFICIAL (Type or Print)

DATE SIGNED

1/11/2008

PART 1 - HEADQUARTERS



(b)(6), (b)(7)c

11 January 2008

Customer#: 1494
Registration #: 48-R-001

To: USDA-APHIS—Animal Care
ATTN: Linda L. Kovar VMO
Western Region, Animal Care
2150 Centre Ave., Building B
Mail Stop #3W11
Fort Collins, CO 80526-8117

Dr. Tims:

This correspondence is in response to your request for clarification of our FY 2007 Annual Report. Specifically, you requested clarification of which procedure caused pain and/or distress, and why alleviating drugs were withheld in the pain and/or distress causing procedure. You provided a copy of the explanation we submitted online with our 2007 report. It is clear by reading your copy of our original explanation, that it did not survive intact when printed, and so was garbled. Please see the information below in response to your request.

Surgical Procedure: The minor surgical procedure is performed under general anesthesia using a combination of ketamine and xylazine and any potential pain and/or distress is alleviated by the referenced drugs. (The dose is 35 mg/kg of ketamine and 5 mg /kg xylazine administered intramuscularly). In addition, Buprenorphin (.02-.05mg/kg S/C) is administered immediately postoperatively to alleviate any post-surgical discomfort.

Viral infection: In the initial 2007 annual report, we reported 12 rabbits in Pain category E. During the IACUC review of the project, this was the number of animals the PI calculated could progress to seizures that would constitute the potential for pain and /or distress. The withholding of anti seizure / analgesia medications for these animals was scientifically justified by the PI if the animals indeed progressed to seizures. He stated in his approved protocol that it was uncertain whether any, or all of the 12 animals would experience seizures. Accordingly, the IACUC authorized 12 rabbits in Category E for this protocol.

When submitting data for the annual report, the PI mistakenly reported all the animals in Pain category E because the IACUC had authorized 12 animals in that category. However, in consultation with the PI, he asserts that his experimental results and records reflect that none of the 12 animals progressed to any clinical sign of disease. The attending veterinary staff, who closely monitored the project because of Category E sensitivities, verifies that the animals in fact did not experience any sign of pain and / or distress. The PI's written explanation of the results of his experiments is provided below:

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“Last year, we did two experiments in rabbits with BHV-5 virus, reconstituted from BHV-5 BAC plasmid clone (passaged in E. coli once). In the first experiment (A93 started on 16 Oct 06) and the second experiment (started on 11 Jan 07), eight and four rabbits, respectively were inoculated with the virus. The purpose of the experiment was to determine the neurovirulence / neuropathogenic property of the reconstituted virus from BHV-5 BAC clone that has been passaged in E. coli. None of the rabbits showed any neurological signs. We believe that the virus was attenuated/mutated during their passage in E. coli and therefore did not cause the desired experimental effect.”

Therefore, following our phone discussion, we are submitting a revised APHIS FORM 7023. The revision includes the re-categorization of the 12 rabbits originally listed in Pain Category E, to Pain Category D. As explained above, this re-categorization is based on the experimental data showing that none of the 12 animals displayed any neurologic signs indicative of active viral infection.

Please contact me or (b)(6), (6)(7)(C) if you need additional clarification or information.

Sincerely,

(b)(6), (6)(7)(C)

Attachment: revised APHIS Form 7023

JAN 22 2006