

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)	1. CERTIFICATE NUMBER: 42-R-0003 CUSTOMER NUMBER: 1575	FORM APPROVED OMB NO. 0579-0036
Iowa State University 1138 Pearson Hall Ames, IA 50011 Telephone: (515)-294-3115		

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

FACILITY LOCATIONS (Sites) - See Attached Listing

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 animal 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, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	71	172	357	8	537
5. Cats		101	230		331
6. Guinea Pigs		50		20	70
7. Hamsters		18	64		82
8. Rabbits		15	50		65
9. Non-human Primates					
10. Mice		113	20		133
11. Pigs		93	35		128
12. Other Farm Animals Goats		53	18		71
Cattle		405	24		429
13. Other Animals Horses		50	58		108
Mule		1			1
Jackrabbit		8			8
Muskrats		245			245

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 an Institutional Animal Care and Use Committee (IACUC). A summary of all such 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.

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CERTIFICATION BY **RESEARCH FACILITY OFFICIAL**
 (Chief Executive Officer or Legally Responsible Institutional Official)

S AF (b)(6), (b)(7)(c)	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) (b)(6), (b)(7)(c)	DATE SIGNED 24 Nov 08
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UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

42-R-0003

FORM APPROVED
OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT
OF RESEARCH FACILITY
(TYPE OR PRINT)

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

Iowa State University
1138 Pearson Hall
Ames, IA 50011
(515) 294-3115

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use this form.)

A. Animals Covered By The Animal Welfare Regulations ----- 12. &/OR 13. Other (List by species)	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)
Bobcat			25		25
Opossum, Brazilian	48		91		91
Mice (Field)		350			350
Voles		75			75
Chipmunks		15			15
Ground Squirrels		15			15

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 such 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.

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

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I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

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

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

24 Nov 08

Column E Explanation

1. Registration Number – 42-R-0003

2. Species used in this study – dogs

3. Total number of animals used in the study;

Dogs – 8

4. Number of Column E animals used in the study

Dogs - 8

5. Explanation of the study;

The purpose of the study was to evaluate the effects of hyper-immune serum on reducing the severity of canine parvovirus-associated diarrhea. Eight dogs were used in a host animal Canine Parvovirus challenge according to 9 CFR 113.317 for testing and licensure of canine parvovirus vaccines. The USDA, APHIS approved testing protocol allowed the use of the hyper immune antiserum product as a treatment post-challenge to test the clinical improvement caused by the product. Treatments to alleviate pain or distress would have interfered with the clinical signs needed to test the product and meet USDA licensing requirements. Supportive veterinary treatments were administered as soon as the required diagnostic clinical signs were observed.

6. Justification for not using anesthetics and analgesics;

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9 CFR 113.317 and USDA approved testing protocol.

Column E Explanation

1. Registration Number – 42-R-0003

2. Species used in this study – guinea pigs

3. Total number of animals used in the study;

Guinea pigs – 70

4. Number of Column E animals used in the study

Guinea pigs - 20

5. Explanation of the study;

The purpose of the study was to develop an animal model to evaluate a widespread, antibiotic resistant, abortifacient strain of *Campylobacter jejuni*. Seventy pregnant guinea pigs were challenged with *C. jejuni*. Of those, 20 aborted. Treatments to alleviate pain or distress associated with the abortion would have interfered with the abortion process and complicated the interpretation of the results. Euthanasia was performed as soon as the abortion was confirmed.

6. Justification for not using anesthetics and analgesics;

Euthanasia was performed as soon as abortion was confirmed, but the stress of handling and administering the medications during the abortion process and the sedative effects of the drug would interrupt or prolong the abortion process.

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Registration Number – 42-R-0003

One exception to the AWA regulations and standards was approved by the IACUC. That study involved eight Canine Parvovirus challenged dogs that had food withheld for 24 hours prior to challenge, and were not exercised after challenge to prevent the spread of infectious disease.

None of the studies covered under these regulations used death as an endpoint.

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