

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 16-R-0039  
CUSTOMER NO. 61

FORM APPROVED  
OMB NO. 0579-0036

**ANNUAL REPORT OF RESEARCH FACILITY**  
(TYPE OR PRINT)

RECEIVED  
NOV 14 2006

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

THE C T AGRICULTURE EXPERIMENT STATION  
123 HUNTINGTON STREET  
BOX 1106  
NEW HAVEN, CT 06504  
(203) 974-8485

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)

See Attached Listing

(b)(2)High, (b)(7)f

(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					
5. Cats					
6. Guinea Pigs		7			7
7. Hamsters		55	158	25	238
8. Rabbits		3			3
9. Non-Human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
White-tailed deer			22		22
White-footed mouse			193		193
Chipmunk			21		21

**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.

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

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

Signed: (b)(6), (b)(7)c

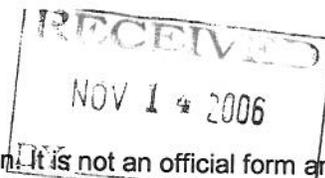
or Print)

DATE SIGNED

11/8/06

QA 92

Column E Explanation



This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 16-R-0039

2. Number 25 of animals used in this study.

3. Species (common name) Hamster of animals used in the study.

4. Explain the procedure producing pain and/or distress.

To determine baseline mortality rate with West Nile virus (WNV) for the hamster, 5 female hamsters were inoculated with WNV in concentrations of  $10^2$ ,  $10^3$ ,  $10^4$ , and  $10^5$  plaque-forming units of WNV (5 hamsters/treatment). Five hamsters received control of PBS. Mortality was recorded for 28 days. Sixteen hamsters developed the disease and died. In the WNV vaccine trials during this reporting period, there were 4 treatments of 6 hamsters each, inoculated with 3 different trial vaccines. One group was a control. All hamsters were challenged with WNV. Six hamsters developed the disease and died. To mimic natural transmission, female mosquitoes experimentally infected with WNV were fed on hamsters. Not all the hamsters became infected. Three hamsters died from WNV without intervention due to rapid onset of illness. The remaining infected hamsters were euthanized when they began to exhibit symptoms.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

The hamster model must be validated for the evaluation of trial human vaccines against West Nile virus. Pain and distress may not be relieved because of rapid onset of illness, especially in the control group. With baseline data, pain and/or distress should not interfere with test results and animals will be euthanized when they exhibit symptoms.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency \_\_\_\_\_ CFR \_\_\_\_\_