According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a per- it displays a valid OMB control number. The valid OMB control number for this information collection is collection is estimated to average 2 hours per response, including the time for reviewing instructions, s needed, and completing and reviewing the collection of information.	OMB APPROVED 0579-0036 Exp.: 10/31/2018				
This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result and to be subject to penalties as provided for in Section 2150.	Interagency Report Control No. 0180-DOA-AN	Fiscal Year 2011			
UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE	1. REGISTRATION NUMBER 14-R-0035				
	2. HEADQUARTERS RESEARC registered with USDA, include		l telephone number as		
ANNUAL REPORT OF RESEARCH FACILITY	Y UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL				
(TYPE OR PRINT)	55 LAKE AVENUE NOR	TH			
	WORCESTER, MA 0165	5			
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)(7)(F)

<b>A.</b> 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	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 on these animals and the reasons such drugs	F. TOTAL NUMBEF OF ANIMALS (Cols. C + D + E
4. Dogs	0	0	used. 8	were not used must be attached to this report.) 0	8
5. Cats	0	0	0	0	0
6. Guinea Pigs	0	378	246	357	981
7. Hamsters	0	155	0	0	155
8. Rabbits	0	49	176	0	225
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	14	0	14
11. Pigs	0	0	44	0	44
12. Other Farm Animals					
13. Other Animals	0	26	0	0	26

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.

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. 3.)

4.) The attending veterinarian for this research facility has appropriate authority to ensure the provisions 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 (C.E.O.) or Legally Responsible Institutional Official (I.O.)) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

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

SIGNATURE OF C.E.O. OR I.O.

NAME AND TITLE OF C.E.O. OR I.O. (Type or Print)

DATE SIGNED

APHIS FORM 7023 JUL 2013

	B control number. The valid C rage 2 hours per response, in	OMB control number for this in cluding the time for reviewing	formation coll	ection is 0579-0036.	The time requir	collection of information ed to complete this information hering and maintaining the data		OMB APPROVED 0579-0036
This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. Interagency Report Control No. 0180-DOA-AN					Fi	scal Year 2011		
	ATES DEPARTMENT D PLANT HEALTH IN	OF AGRICULTURE		1. REGISTRATIO 14-R-0035				
CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)			L	2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code) UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL 55 LAKE AVENUE NORTH WORCESTER, MA 01655				
REPORT OF ANIMALS USE						,		-
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.	which e teachin surgery conduc accom or distr animals which a anesth	er of animals upon experiments, gr, research, /, or tests were ted involving ponying pain ess to the s and for appropriate etic, analgesic, or lizing drugs were	experime were con pain or di which the analgesic adversely or interpr experime of the pro on these	f animals upon which teaching, nts, research, surgery, or tests ducted involving accompanying stress to the animals and for use of appropriate anesthetic, c, or tranquilizing drugs would hav, a ffected the procedures, results, teation of the teaching, research, nts, surgery, or tests. (An explana ocedures producing pain or distres animals and the reasons such dru used must be attached to this rep-	ation ss ugs	F. TOTAL NUMBER OF ANIMALS (Cols. C + D + E)
NILE GRASS RAT	0	26		0		0		26
ASSURANCE STATEMENTS	3							

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 provisions of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.



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

