| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | 1 REGISTRATION | | FORM APPI | |
|---|--|---|---|---|--|--|-------------------------------|
| ANIMAL AND | EART REALTS INSPEC | anon sentice | | 10-V-004 OMB NO 0579-0006 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA | | | |
| | | | | 2. HEADQUARTER include Zip Cod | | e and Address, as registered | with USDA. |
| ANNUAL REPOR | | CH FACILITY | | Departme | nt of Veterans | Affairs | ~~ |
| (1) | PE OR PRINT) | | | | & Development n Gay St. | computing cent | eı |
| | | | | | e, MD 21202-40 | 51 | |
| REPORTING FACILITY (List all I sheets if necessary.) | ocations where animals | were housed or used i | n actual res | | | | ch additional |
| | = | FAC | LITY LOCA | TIONS (Sites) | | | |
| Department of Ve | terans Affai | rs Medical | Cente | r – 688 | | | |
| 50 Irving ST. N. | | | | | | | |
| Washington, D.C. | | | | | | | |
| EPORT OF ANIMALS USED BY O | R UNDER CONTROL OF B. Number of | | | | | | T - |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held for use in teaching, testing, | ng animats upon which ex which teaching, teaching, or research, surgery, in experiments, or conducte | | r of animals upon xperiments, g, research, , or tests were ted involving sawing pain or | to the animals and for wh anesthetic, analgesic, or | | F. TOTAL NO. OF ANIMALS |
| | experiments, research, or surgery but not yet used for such purposes. | conducted involving no pain, distress, or use of pain- relieving drugs. | accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used | | the procedures producin | tests. (An explanation of g pain or distress in these such drugs were not used | (Cols. C + D + E) |
| . Dogs | | | | | | | |
| Cats | | | | | | | |
| . Guinea Pigs | | | | ····· | | | |
| . Hamsters | | - | | | | | |
| Rabbits | | 8 | | | | | 8 |
| Non-human Primates | | | | | | | |
| 0. Sheep | | | | | | | |
| 1. Pigs | | | | ····· | | | |
| 2. Other Farm Animals | | | | | · · · · · · · · · · · · · · · · · · · | | |
| 3. Other Animals | | | | · | | ····· | |
| rats | | 23 | | | | | 23 |
| mouse | 139 | 179 | 3 | 31 | | | 510 |
| SSURANCE STATEMENTS | | | 1 | | <u> </u> | | l |
| 1) Professionally acceptable sl | tandards governing the | care, treatment, and u rgery, or experimentat | se of animal | s, including approri | ate use of anesthetic, analgesi | ic, and tranquilizing drugs, pi | rior to, during, |

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.

| RCH FACILITY OFFICIAL J) | | | |
|-----------------------------|----------------------|--|--|
| IAL (Type or Print) | DATE SIGNED | | |
| | 11/15/00 | | |
| | iIAL (Type or Print) | | |

| This report is required by law (7 result in an order to cease and (| USC 2143) Failure to desist and to be subjec | report according to th t to penalties as provid | ne regulation ded for in Se | is can ection 2150. | See reverse side for additional information. | Interagency Rep 0180-DOA-AN | ort Control No | |
|---|---|---|---|--|--|--|---|--|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | 1. REGISTRATION | ROVED 579-0036 | | | |
| | | | | | IS RESEARCH FACILITY (Name and) | Address, as registered | with USDA | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | Department of Veterans Affairs National HQS 810 Vermont Avenue NW Washington DC 20420 | | | | |
| 3. REPORTING FACILITY (List all h sheets if necessary.) | ocations where animals | were housed or used | in actual res | earch, testing, teac | hing, or experimentation, or held for t | hese purposes. Atta | ch additional | |
| | | FAC | | TIONS (Sites) | | | | |
| 518 VA Medical (200 Springs Bedford, MA | Center Rd. 01730 | | | | | | | |
| | | | | · | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | | | | cessary 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 leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | which e teachin surgery conduc accomp distress and for anesthe | r of animals upon experiments, ig, research, , or lests were ted involving banying pain or s to the animals which appropriate alic, analgesic, or lizing drugs were | E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the product adversely affected the product interpretation of the teaching, resperiments, surgery, or tests. (the procedures producing pain animals and the reasons such dimust be affached to this report). | rr tests were Ing pain or distress use of appropriate lizing drugs would cedures, results, or isearch, An explanation of or distress in these | F. TOTAL NO. OF ANIMALS (Cois. C + D + E) | |
| 4. Dogs | 0 \ | , | | | | | | |
| 5. Cats | 0 | | | | | | | |
| 6. Guinea Pigs | 0 | | ļ | | | | | |
| 7. Hamsters | 0 | | ļ | | | | | |
| 8. Rabbits | 0 | | | | | | | |
| 9. Non-human Primates | 0 | | | | <u> </u> | | | |
| 10. Sheep | 0 | | | | | | | |
| <u>11. Piqs</u> | | | ļ | | | | | |
| 12. Other Farm Animals | O | | | | | | | |
| 13. Other Animals | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| Mice | 1400 | 4401 | 32(|)f | | | 4721 | |
| Rats | 0 | 5 | | | | | 5 | |
| · | | | | <u></u> | | | | |
| ASSURANCE STATEMENTS | | | | | | | | |

1). Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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 lacitify 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true correct, and complete (7.1) S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGNED

| This operates repaired by divide result in an order to chase and (| the glass flavare to least and to be subject | e-port a conding to the To penalties as provid | e regulate os can led for in Section 2150 | See reverse sub-tor- additional information | 0180-DCA-AN | n na antar ya 🍾 i |
|--|---|---|--|--|--|---|
| UNITED STAT | ES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE | 1. REGISTRATION | N NO. | FORM APPE OMB NO 05 | |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | incl 15-R-001 المالي المالي | | Address, as registered | withUSDA |
| 3. REPORTING FACILITY (List all le sheets if necessary.) | ocations where animals | were housed or used i | n actual research, fesinig, ico. | anny, or experiment | s. Allac | ch additional |
| | | FAC | CILITY LOCATIONS (Siles) | | | |
| None - Facil | ity Not in | r use | | | | |
| | R UNDER CONTROL OF | RESEARCH FACILITY | (Altach adiditional sheets if n | ecessary 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 ho 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 experiments, research, surgery conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, r experiments, surgery, or tests. the procedures producing pain animals and the reasons such of must be attached to this report. | or tests were ying pain or distress e use of appropriate uillzing drugs would becdures, results, or esearch, (An explanation of or distress in these drugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | D |
| 5. Cats | | | | | | О |
| 6. Guinea Pigs | | NONE | | | | ρ |
| 7. Hamsters | | | FOR | | | 0 |
| 8. Rabbits | | | AL | K | ······································ | ଚ |
| 9. Non-human Primates | | | | | | 0 |
| 10. Sheep | | | | | | 0 |
| 11. Pigs | | | | | | 0 |
| 12. Other Farm Animals | | | | | | 0 |
| 13. Other Animals | | | | | | 0 |
| | | | | | | |
| | and a de populación et - | Anno teasternet or to | co of puimula includion. | internet all populations and the second | | |
| and following actual researc 2). Each principal investigator h 3). This facility is adhering to th principal investigator and a | ch, teaching, testing, su has considered alternation te standards and regula pproved by the Institution | rgery, or experimentat lives to painful procedu itions under the Act, a snal Animal Care and I | ion were followed by this reseaures ind it has required that exception Use Committee (IACUC) A sur | tate use of anesthetic, analgesic, and rch facility. Does to the standards and regulations t mmary of all such exceptions is att exceptions, as well as the species an | be specified and explait tached to this annua | ined by the I report. In |
| The attending veterinarian framework animal care and use. | or this research facility | has appropriate autho | rity to ensure the provision of a | adequate veterinary care and to overs | ee the adequacy of oth | her aspects of |

| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIA | AI. |
|---|-----|
| (Chief Executive Officer or Legally Responsible Institutional Official) | |

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

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

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

DATE SIGNED

| This report is conserved by law of result in an order to cease and d | real (2010) Fadure to r resist and to be subject | opert a contendato da to penaltes as provid | engetations, can editor in Section 2150 | See revenue alde for additional information | aminapire, 2013 0150 DOA AN | at Contracts |
|---|---|---|--|---|---|---|
| | ES DEPARTMENT OF A | | 1. REGISTRATION | I NO. | FORM APP | ROVED |
| ANIMAL AND P | LANT HEALTH INSPEC | HUN SERVICE | 15-V-001 | · · · · · · · · · · · · · · · · · · · | OMB NO 0 | |
| | | | 2. HEADQUARTER include Zip Coo | RS RESEARCH FACILITY (Name and fe) | Address, as registered | with USDA, |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | 810 Vermo | nt of Veterans Affort ont Avenue, NW on, DC 20420 | airs Headqua | arters |
| 3. REPORTING FACILITY (List all lo | ocations where animals | were housed or used i | n actual research, testing, teac | hing, or experimentation, or held for | these purposes. Attai | ch additional |
| sheets if necessary.) | | · | | | · · · · | |
| | | FAC | CILITY LOCATIONS (Sites) | | | |
| VA Medical Cen | | widence P | | | | |
| 830 Chalkstone | Avenue, Pro | ovidence, K. | | | | |
| | | | | | | |
| | | | (Attach adiditional sheets if ne | ecessary 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 experiments, research, surgery conducted involving accompar- to the animals and for which the anesthetic, analgesic, or trang have adversely affected the pr interpretation of the teaching, experiments, surgery, or tests. The procedures producing pai- animals and the reasons such must be attached to this repor- | r or tests were sying pain or distress he use of appropriate uilizing drugs would ocedures, results, or research, (An explanation of n or distress in these drugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | |
| 5. Cats | | | | | | |
| 6. Guinea Pigs | | | | | | |
| 7. Hamsters | | | | | | |
| 8. Rabbits | | | | | | |
| 9. Non-human Primates | | | | | | |
| 10. Sheep | | | | · | | |
| 11. Pigs | | | | | | |
| 12. Other Farm Animals | | | | | | |
| 13. Other Animals | | | | | | |
| Rats | 62 | 122 | | | | 184 |
| Mice | 88 | 531 | 112 | | | 731 |
| | | | | | | |
| ASSURANCE STATEMENTS | <u></u> | | • | | | |
| | | | se of animals, including appror ion were followed by this resea | riate use of anesthetic, analgesic, an irch facility | d tranquilizing drugs, p | rior to, during, |
| 2). Each principal investigator l | has considered atternat | ives to painful procedu | ires | | | |
| principal investigator and a | pproved by the Instituti | onal Animal Care and | Use Committee (IACUC). A sui | ons to the standards and regulations mmary of all such exceptions is a e exceptions, as well as the species a | ttached to this annu | al report. In |
| The attending veterinarian f animal care and use. | or this research facility | has appropriate autho | rity to ensure the provision of a | adequate veterinary care and to ove | rsee the adequacy of of | her aspects of |
| ····· | (Chief E | xecutive Officer | DQUARTES RESEAR(or Legally Responsible true, correct, and complete (7 | CH FACILITY OFFICIAL Institutional Official) | | <u> </u> |
| SIGNATURE OF C.E.O. OR INSTITU | | enny mat the above is | true, correct, and complete (7 | U S U⊧¶ection 2143) | | DATE SIGNED |

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

| | TES DEPARTMENT OF A | GRICULTURE | ted for in Se | 1. REGISTRATION | | FORM | |
|--|---------------------------------------|------------------------------------|---------------|---------------------------------------|---|--------------------------|---------------------------------------|
| ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | 15-V-00 | $1 = \pm 6.73$ | FORM APP OMB NO (| 579-0036 |
| | | | | include Zip Cod | | | |
| ANNUAL REPOR | RT OF RESEAR | | | | tment of Veterans A | Affairs Head | lquarter |
| | PE OR PRINT) | | | | Vermont Avenue NW | | |
| | | | | Wasi | nington, DC 20420 | | |
| REPORTING FACILITY (List all | locations where animals | were housed or used | in actual res | iearch, testing, teac | hing, or experimentation, or held for | these purposes. Atta | ch additional |
| sheets if necessary.) | | | | ATIONS (Sites) | | | |
| VA Medical Cen | ter | | | | | | <u> </u> |
| 830 Chalkstone | Avenue – | | | | | | |
| Providence, RI | | | | | | | |
| | | | (Altach adi | ditional sheets if ne | cessary or use APHIS FORM 7023A.) | | |
| | B. Number of animals being | C Number of animals upon | | r of animals upon experiments, | E. Number of animals upon which experiments, research, surgery | or tests were | F. |
| Animals Covered By The Animal | bred, conditioned, or | which leaching, research, | teachir | ng, research, /, or tests were | conducted involving accompan to the animals and for which th | e use of appropriate | |
| Welfare Regulations | held for use in teaching, testing, | experiments, or lests were | conduc | ted involving | anesthetic, analgesic, or tranque have adversely affected the pro- | ocedures, results, or | OF ANIMA |
| | experiments, research, or | conducted involving no | distres | s to the animals which appropriate | interpretation of the teaching, | esearch, | (Cols. C |
| | surgery but not yet used for such | pain, distress, or use of pain- | anesth | etic, analgesic, or | the procedures producing pain animals and the reasons such | or distress in these | D + E |
| | purposes. | relieving drugs. | used. | ilizing drugs were | must be attached to this report | | |
| Dogs | | | | | | | |
| Cats | | | | | | | |
| Guinea Pigs | | | | | | | |
| Hamsters | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | <u> </u> | | | |
| . Rabbits | | | | | | | 1 |
| Non-human Primates | | | | | | | · · · · · · · · · · · · · · · · · · · |
| 0. Sheep | | | | | | | |
| 1. Pigs | + | | | | | | |
| 2. Other Farm Animals | <u>+</u> | | | | | | |
| 3. Other Animals | | | | | | | |
| Rate | 1.8 | 1.8 | 108 | | | | 126 |
| -Mice | 9.21 1 | 194 | 2252 | | | | 404 |
| | | 104 | 5355 | | | | |
| SSURANCE STATEMENTS | | | _ | | | | |
| 1). Professionally acceptable s and following actual resear | | | | | iate use of anesthetic, analgesic, and rch facility. | l tranquilizing drugs, p | rior to, during, |
| 2). Each principal investigator | | | | ······ | , | | |
| 3) This facility is adhering to t | he standards and regula | ations under the Act. a | nd it has re | quired that exception | ons to the standards and regulations | be specified and expla | lined by the |
| principal investigator and a | approved by the instituti | onal Animal Care and | Use Commi | ttee (IACUC). A sui | mmary of all such exceptions is at exceptions, as well as the species at | tached to this annu | ai report. In |
| , , | | | | | adequate veterinary care and to over | | |
| animal care and use. | | | | | | | |
| | (Chief E | | or Legal | ly Responsible | CH FACILITY OFFICIAL Institutional Official) | | |
| IGNATURE OF C.I | | | | | OR INSTITUTIONAL OFFICIAL (Type | or Print) | DATE SIGNE |
| | | | | | - | | 1.23 |
| | | | | | | | |

| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | 1. REGISTRATION 16-V-002 | CONVERT | | | |
|---|---|---|--|---|--|--|--|
| ANNUAL REPOF | RT OF RESEAR (PE OR PRINT) | CH FACILITY | include Zip Coa Departme Research 103 Sout | 2. HEADOUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip. Code) Department of Veterans Affairs Research and Development Computing Center (15) 103 South Gay Street, Room 400 Baltimore, MD 21202-4051 | | | |
| REPORTING FACILITY (List all sheets if necessary.) | locations where animals | | | hing, or experimentation, or held for these purposes. Atta | ch additional | | |
| 689 VA Connection 950 Campbel | | | CILITY LOCATIONS (Sites) | | | | |
| West Haven, | | | | ,,,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| REPORT OF ANIMALS USED BY C | R UNDER CONTROL OF | RESEARCH FACILITY | (Attach adiditional sheets if ne | cessary 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 animats 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 leaching, 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. OF ANIMALS (Cols. C + D + E) | | |
| 4. Dogs | 0 | 0 | 0 | 0 | 0 | | |
| 5. Cats | 0 | 0 | 0 | 0 | 0 | | |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | 0 | | |
| 7. Hamsters | 0 | 0 | 0 | 0 | 0 | | |
| 3. Rabbits | 8 | 0 | 103 | 0 | 103 | | |
| Non-human Primates | 6 | 0 | 39 | 0 | 39 | | |
| 10. Sheep | 0 | 0 | 0 | 0 | 0 | | |
| 11. Piqs | 0 | 0 | 5 | 0 | 5 | | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Mastomy | 114 | 0 | 85 | 0 | 85 | | |
| ASSURANCE STATEMENTS | | | | | | | |

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.

| | CERTIFICATION BY HEADQUARTES RESEARC (Chief Executive Officer or Legally Responsible tertify that the above is true, correct, and complete (7 U | Institutional Official) | |
|-----------------------------|---|--------------------------|-------------|
| SIGNATI | | OFFICIAL (Type or Print) | DATE SIGNED |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 YOCT 88), which is obsolete) | | EADOUARTERS |

| This report is required by law result in an order to cease an | r (7 USC 2143). Failure to r nd desist and to be subject | eport according to the re- to penalties as provided to | gulations can for in Section 2150. | See reverse side for additional information. | Interagency Report Control No 0180-DOA-AN |
|---|---|--|--|--|---|
| UNITED ST | TATES DEPARTMENT OF | AGRICULTURE | 1. REGISTRAT 21-R-0146 | ION NO. CUSTOMER NO. | FORM APPROVED OMB NO. 0579-0036 |
| | (TYPE OR PRIN | (T) . | .LIY include Zip (| TERS RESEARCH FACILITY (Name and Code) AMERICAN HEALTH FOUI 1 DANA ROAD VALHALLA, NY 10595 (914) 592-2600 or experimentation, or held for these purp. | NDATION |
| 3. REPORTING FACILITY (LIST a sheets if necessary.) | all locations where animals | | | or experimentation, or nero for these purp | |
| See Attached Listing | As abov | | ACILITY LOCATIONS(sites) | | |
| October 1, 200 | | | 1 | | |
| REPORT OF ANIMALS USED BY A. | B. Number of | F RESEARCH FACILITY | D. Number of animals upon | ssary or use APHIS FORM 7023A) | ing. F. |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or heid for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | 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. | experiments, research, surgery or teconducted involving accompanying p to the animals and for which the use anesthetic, analgesic, or tranquilizing have adversely affected the procedui interpretation of the teaching, resear experiments, surgery, or tests. (An e the procedures producing pain or dis animals and the reasons such drugs must be attached to this report) | sts were arin or distress of appropriate drugs would res, results, or ch, ch, ch, ch, ch, ch, ch, ch, |
| 4. Dogs | | | | | |
| 5. Cats | | | | | |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | 0 |
| 7. Hamsters | 0 | 0 | 0 | 0 | 0 |
| 8. Rabbits | 0 | 0 | 0 | 0 | 0 |
| 9. Non-Human Primates | | | | | |
| 10. Sheep | | | | | |
| 11. Pigs | | | | | |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| rats | 2 | 2097 | 34 | 0 | 2131 |
| mice | 974 | 2470 | 0 | 0 | 2470 |
| ASSURANCE STATEMENTS | | | | | |

 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.

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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)

(pe or Print)

<u>.</u>

DATE SIGNED 0 Х \mathcal{O}

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

| result is an order to cease and de | | | | 1. REGISTRATION | | T | |
|---|------------------------------------|------------------------------------|--------------|---|---|---|--|
| UNITED STATE ANIMAL AND PL | S DEPARTMENT OF A | TION SERVICE | 1 | 21-V-002 | | FORM APP OMB NO 0 | |
| | | | | | RS RESEARCH FACILITY (Name and | Address, as registered | with USDA, |
| | | | | | Veterans Affairs | Natl. Headq | uarters |
| | f of resear Pe or print) | CH FACILITY | | | ont Ave., N.W. | - | |
| (111 | | | : | Washingt | on, D.C. 20420 | | |
| | | | | | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | cations where animals | were housed or used i | n actual res | earch, testing, teac | hing, or experimentation, or held for | these purposes. Atta | ch additional |
| | | FAC | CILITÝ LOCA | TIONS (Sites) | | | ······································ |
| V.A. W.N.Y. Health | - | 1 | | | | | |
| 3495 Bailey Avenue Buffalo, New York | | | | | | | |
| REPORT OF ANIMALS USED BY OR | | | (Attach ad | ditional sheats if ne | COSSERVICE USE APHIS FORM 70234 | | |
| | B. Nymber of | C Number of | | r of animals upon | E. Number of animals upon which | | F. |
| Animals Covered | animals being bred, | animals upon which teaching, | which | experiments, ag, research, | experiments, research, surgery conducted involving accompar | or tests were lying pain or distress | |
| By The Animal Welfare Regulations | conditioned, or held for use in | research, experiments, or | surger | , or tests were | to the animals and for which the anesthetic, analgesic, or trang | | TOTAL NO. OF ANIMALS |
| | teaching, testing, experiments, | tests were conducted | accom | ted involving panying pain or | have adversely affected the pr interpretation of the teaching, | | |
| | research, or surgery but not | involving no pain, distress, or | and to | s to the animals which appropriate | experiments, surgery, or tests the procedures producing pair | | (Cols. C + D + E) |
| | yet used for such purposes. | use of pain- relieving drugs | | etic, analgesic, or ilizing drugs were | animals and the reasons such must be attached to this repor | drugs were not used | |
| 4. Dogs | | | | <u></u> | | | |
| 5. Cats | | 23 | | | | | 23 |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | | | | | | |
| 8. Rabbits | | 1 | | 6 | · · · · · · · · · · · · · · · · · · · | | 7 |
| 9. Non-human Primates | | | ļ | | | | |
| 10. Sheep | | | | _ , | | | |
| 11. Pigs | | · | | 12 | | | 12 |
| 12. Other Farm Animals | | | | | | | |
| Turkeys | | | | 39 | | | 39 |
| 13. Other Animals | | | | | | | |
| Rats | 126 | 1130 | | | | | 1130 |
| Mice | 201 | 581 | | 21 | | | 602 |
| Nude/Scid Mice | 24 | | 13 | 38 | | | 138 |
| ASSURANCE STATEMENTS | | | | | | | |

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

| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Legally that the above is true, correct, and complete (7 U S.C. Section 2143). | | | | | | |
|--|--|----------|--|--|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | | | | | |
| | | 11/15/00 | | | | |

| The report compared by laws result in an order to cease and | 2006 21404 Comment desirat and to be subject | oport according — Sa To penalties as provid | e regulation i leat far ni Set | i an Non-2150 | hee revarye rade toe addetional information | Interagetely Repr 0100-DÓA-AN | and a deal of the |
|--|---|---|---|---|--|--|---|
| | TES DEPARTMENT OF A PLANT HEALTH INSPEC | | | 1. REGISTRATION | I NO. | FORM APP | |
| ANIMAL AND | | | | 21-V-003 2. HEADQUARTEL include Zip Cod | RS RESEARCH FACILITY (Name and A | OMB NO 0 | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | VA NY Harbor Healthcare System 423 East 23rd Street New York, NY 10010 | | | |
| 3. REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used | in actual res | earch, testing, teac | hing, or experimentation, or held for t | hese purposes. Atta | ch additional |
| | | FAG | CILITY LOCA | TIONS (Sites) | | | |
| 18-WEST | | | | · | | | |
| | | | | | | | |
| | | | l (Attach adiu | litional sheets il ne | cessary 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. | which e teachin surgery conduc accomp distress and for anesthe | of animals upon speriments, g, research, , or tests were led involving anying pain or to the animals which appropriate tic, analgesic, or izing drugs were | E. Number of animals upon which experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. the procedures producing pain animals and the reasons such of must be attached to this report). | or tests were ring pain or distress e use of appropriate likzing drugs would cedures, results, or esearch, (An explanation of or distress in these frugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cats | | | | | , | | |
| 6. Guinea Pigs | | | | <u>-</u> | | ····· | |
| 7. Hamsters | | | ļ | | | | |
| 8. Rabbits | - | | 3 | 9 | | - <u></u> | 39 |
| 9. Non-human Primates | | | | | | | |
| 10. Sheep | | | | | | | |
| 11. Pigs | | | | | | · | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | | | | |
| RATS | 112 | | 141 | 5 | | | |
| MICE | 1999 | | 687 | 8 | | | 6878 |
| GERBILS | 20 | | 4 | 2 | | | 42 |
| ASSURANCE STATEMENTS | | | | | iate use of anesthetic, analgesic, and | | |

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

| 1 | 'Chief Executive Office | ADQUARTES RESEARCH FACILITY OFFICIAL r or Legally Responsible Institutional Official) 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 |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 (OCT 88), whic | | HEADONIARTERS |

| The result is required by law or USA 23.45 . A neural to be tool a contribut to the one income and result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. | | | | isee new dae aan ise acomosal misema laan | utenael Perioti et 2. uten-DOA AN | | |
|--|---|--|--|--|---|--|--|
| UNITED STATE | ES DEPARTMENT OF A LANT HEALTH INSPEC | GRICULTURE | 1. REGISTRATION 21-V-00 | 04 | FORM APPROVED OMB NO: 0579-0036 | | |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | 2. HEADQUARTE include Zip Coc Dept. of 810 Vern | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code) Dept. of Veterans Affairs Central Office 810 Vermont Avenue, N.W. Washington, D.C. 20420 | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | were housed or used i | in actual research, testing, teac | ching, or experimentation, or held for thes | e purposes. Attach additional | | |
| | | | CILITY LOCATIONS (Sites) | | ····· | | |
| VA New York Ha 800 Poly Place | | | | n) : | | | |
| | | | (Attach wildfaund churte dia | ecessary or use APHIS FORM 7023A.) | | | |
| A. | B. Number of | C Number of | | E. Number of animals upon which tea | ching, F. | | |
| Animals Covered By The Animal Welfare Regulations | b. Number 5 being animals being bred, conditioned, or held tor use in teaching, testing, experiments, research, or surgery but not vet used for such | animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or | 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 anesthelic, analgesic, or | experiments, research, surgery or to conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquilizi have adversely affected the procee- interpretation of the teaching, rese experiments surgery or tests. (An | ests were pain or distress se of appropriate ng drugs would lures, results, or arch, explanation of distress in these D + E | | |
| | purposes. | use of pain- relieving drugs. | tranquilizing drugs were used | must be attached to this report). | 25 | | |
| 4. Dogs | | 0 | - | | | | |
| 5. Cats | | 0 | 0 | 0 | 0 | | |
| 6. Guinea Pigs | <u> </u> | 0 | 19 | 0 | | | |
| 7. Hamsters | 0 | 0 | 0 | 0 | 0 | | |
| 8. Rabbits | 8 | 0 | 83 | 0 | 83 | | |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | 0 | | |
| 10. Sheep | 0 | 0 | 0 | 0 | 0 | | |
| 11. Pigs | 0 | 0 | 0 | 6 | 0 | | |
| 12. Other Farm Animals | 0 | 0 | 0 0 | | 0 | | |
| 13. Other Animals | | | | | | | |
| RATS | 26 | 0 | 169 | 0 | 169 | | |
| MICE | 98 | 0 | /3 | ٥ | 13 | | |
| FROGS | 1 | 0 | 59 | 0 | 59 | | |

1) onaliv ceptable standards governing the care, treatment, and use of animals, including approviate 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 This facility is adhering to the standards and regulations onder the received and required that exceptions to the standards and regulations do appended the contract equations to the standards and regulations of the principal investigator and approved by the Institutional Animal Care and Use committee (IACUC). A summary of all such exceptions is a tracked 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 HEADQUARTES 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).

| NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | | D4 | TE S | SIGNED | |
|--|-----|----|------|--------|--|
| | DEC | 1 | 5 | QU) | |
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advector a trapector and the

| Bab repuid is required by now in repuid in an order to sense and i | that at 4 by Earling to 5 Beautianat to be subject | eportación to a forma To penalties as provida | negaalan a 61 baris ber | i van Thon 2150 | see reverse side for additional information | - 63 upau 1 Mga 9100 DolA AN | at to o du b a b a <u>b</u> |
|---|---|---|---|---|--|--|--|
| UNITED STAT ANIMAL AND F | ES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE TION SERVICE | | 1. REGISTRATION | | FORM APP OMB NO 0 | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) Department of Veterans Affairs Central Office 810 Vermont Ave NW Washington, DC 20420 | | | |
| 3. REPORTING FACILITY (List all t sheets if necessary.) | ocations where animals | were housed or used in | n actual res | earch, testing,"teac | hing, or experimentation, or held for the | hese purposes. Alta | ch additional |
| | | FAC | LITY LOCA | TIONS (Siles) | | <u></u> | |
| VA Medical Center | (670) | | | | ent Of Lab Animal H | Resources | |
| 800 Irving Ave Syracuse, NY 1321 | 0 | | | - | C 766 Irving Ave e, NY 13210 | | |
| | | RESEARCH FACILITY | (Attach adi | | cessary 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, lesting, 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 accomp distress and for anesthe | r of animals upon experiments, ig, research, , or tests were ted involving banying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests (the procedures producing pain animals and the reasons such d must be attached to this report). | or tests were ing pain or distress is use of appropriate lizing drugs would cedures, results, or search, An explanation of or distress in these | F. TOTAL NO. OF ANIMALS (COIS. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cats | | | | | | | |
| 6. Guinea Pigs | 8 | | 1 | .3 | | | 21 |
| 7. Hamsters | | | | | · | | |
| 8. Rabbits | 13 | 3 | 1 | 4 | | . <u> </u> | 30 |
| 9. Non-human Primates | | | | | | | |
| 10. Sheep | | | | | | ······································ | |
| 11. Pigs 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | <u></u> | | | |
| Rats | 8 | 83 | | | | - <u></u> | 91 |
| Mice | 68 | 2946 | | | | | 3014 |
| ASSURANCE STATEMENTS | | | | | L | | |
| 1) Professionally acceptable sl and following actual researc | tandards governing the ch, teaching, testing, su | care, treatment, and ur rgery, or experimentali | se of animal on were foll | ls, including appror owed by this resear | iate use of anesthetic, analgesic, and rch facility. | tranquilizing drugs, p | rior ta, during, |
| 2). Each principal investigator | has considered alternati | ves to painful procedu | res | | | | |

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.

| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lectify 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 | | | |
| | | | 11/13/00 | | | |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 (OCT 8 | | | | | |

| | esist and to be subject | report according to the To penalties as provid | ed for in Section 2150 | additional information (in a | il-liva ata |
|---|---|--|---|--|--|
| ANIMAL AND P | ES DEPARTMENT OF A LANT HEALTH INSPEC T OF RESEAR PE OR PRINT) | TION SERVICE | | 1 | S |
| ` | | | 2 ⁻ | - | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | · · · · · · · · · · · · · · · · · · · | | hing, or experimentation, or held for these pr | irposes. Attach additional |
| | | FAC | CILITY LOCATIONS (Sites) | | |
| #500 Stratton 113 Holland Av Albany, NY 122 | ve. 208 | | | | |
| A. | B. Number of | C Number of | Attach adiditional sheets if ne D. Number of animals upon | cessary or use APHIS FORM 7023A) E. Number of animals upon which teaching | 3. F. |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | 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 | experiments, research, surgery or tests conducted involving accompanying pair to the animals and for which the use of anesthetic, analgesic, or tranquilizing d have adversely affected the proceduress interpretation of the teaching, research, experiments, surgery, or tests. (An expl the procedures producing pain or distri- animals and the reasons such drugs we must be attached to this report). | were tor distress appropriate TOTAL NO. OF ANIMALS OF ANIMALS OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | used. | | |
| 5. Cats | _ | | | | |
| 6. Guinea Pigs | 0 | 0 | 17 | 0 | 17 |
| 7. Hamsters | | | | | |
| 8. Rabbits | 48 | 9 | 357 | 0 | 405 |
| 9. Non-human Primates | _ | | _ | _ | |
| 10. Sheep | | - | | _ | |
| 11. Pigs | = | | | | |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| Mice | 90 | 0 | 690 | 0 | 780 |
| Rats | 110 | 0 | 807 | 0 | 917 |
| ASSURANCE STATEMENTS | I | L | I | | l |

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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.

(AUG 91)

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| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Ecertify that the above is true, correct, and comolete (7 U.S.C. Section 2143) | | | | | | | |
|--|---|-----------------------|-------------|--|--|--|--|
| SIGNA | | ICIAL (Type or Print) | DATE SIGNED | | | | |
| APHIS FORM 7023 | (Replaces VS FORM 18-23 (OCT 88), which is obsolete) | | | | | | |

| This report is restared by low in result in an order to cease and d | (i)(, 2) ↓ () ↓ admester esist and to be subject. | epuntal condition to the to penalties as provide | ed for in Sec | <.a). from 2150 | aer esama side f.e. additional information | FISCAL YEAR : Bit coder y Rea 91/0-DOA-AN | |
|--|---|---|---|---|--|--|--|
| UNITED STATE ANIMAL AND P | S DEPARTMENT OF A | GRICULTURE TION SERVICE | | 1. REGISTRATION | | FORM APP OMB NO 0 | |
| | | | | 21-V | -009 IS RESEARCH FACILITY (Name | | |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | | include Zip Cod Departme 810 Verm Washingt | | ffairs Centra | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | | | earch, lesting, teach | ning, or experimentation, or held | for these purposes. Atta | ch additional |
| 526 VA Medical (| | | | | | ····· | |
| 130 W. Kings | | | | • | , | ÷ | |
| Bronx, New Y | | | | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | RESEARCH FACILITY | ' (Attach adic | litional sheets if ne | والمتحد | | |
| 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 accomp distress and for anesthe | of animals upon xperiments, , research, , or tests were ted involving panying pain or to the animals which appropriate thic, analgesic, or fizing drugs were | E. Number of animals upon w experiments, research, surg conducted involving accorn to the animals and for whic anesthetic, analgesic, or tr have adversely affected th interpretation of the teachi experiments, surgery, or te the procedures producing animals and the reasons s must be attached to this re | gery or tests were panying pain or distress ih the use of appropriate anquilizing drugs would a procedures, results, or ng, research, sts (An explanation of pain or distress in these uch drugs were not used | F. TOTAL NO OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | 0 | 0 | | 33 | 0 | | 33 |
| 5. Cats | 0 | 0 | | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 0 | | 1 | 0 | | 1 |
| 7. Hamsters | 0 | 0 | | 0 | 0 | | 0 |
| 8. Rabbits | 0 | 0 | | 31 | 0 | | 31 |
| 9. Non-human Primates | 0 | 0 | | 18 | 0 | | 18 |
| 10. Sheep | 0 | 0 | | 15 | 0 | | 15 |
| 11. Pigs | 1 | 0 | | 41 | 0 | | 41 |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | | | | |
| 14. Rats | 0 | 23 | | 223 | 0 | ······ | 246 |
| 15. Mice | 0 | 23 | | 90 | 0 | | 113 |
| ASSURANCE STATEMENTS | | | | | | | |
| | | | ~ | | | | |

Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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. 1)

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| | CILITY OFFICIAL | |
|------------------------|---|--|
| SIGNATURE OF C.E.O. OR | NSTITUTIONAL OFFICIAL | DATE SIGNED |
| APHIS FORM 7023 | (Replaces VS FORM 18-23 (OCT 88), which is obsolete) | ······································ |

| The record of constants to water and d | or all that in Fundacion Restat und to tak palaetit | eport actor dation to the to periodites us provide | ergalations cae er Barne Section 2150 | are reverse united additional information. | s sugni sina StraΩG4 A*• | Strath Yv |
|---|---|--|--|--|---|-------------------------------|
| UNITED STATE | ES DEPARTMENT OF A LANT HEALTH INSPEC | GRICULTURE | 1 REGISTRATION |) | FORM APPE OMB NO 05 | 79-0036 |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | include Zip Cod Departme 810 Vern | SRESEARCH FACILITY (Name and Ad e) ent of Veterans Affa nont Avenue, NW ton, DC 20420 | | with USDA. |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | were housed or used i | n actual research, testing, teacl | ning, or experimentation, or held for the | ese purposes. Attacl | n additional |
| | | FAC | CILITY LOCATIONS (Sites) | ····· | | |
| Department of Vet | terans Affai | rs Medical | Ctr. | | · · | |
| University & Wood | | * | | | | |
| Philadelphia, PA | | | (Attach adjutitional shoets if no | cessary or use APHIS FORM 7023A.) | | |
| A. Animals Covered By The Animal | B. Number of animals being bred, conditioned, or held for use in | C Number of animals upon which teaching, research, experiments, or | D. Number of animals upon which experiments, teaching, research, surgery, or tests were | E. Number of animals upon which teal experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranguilis | tests were ng pain or distress use of appropriate | F. TOTAL NO. OF ANIMALS |
| Welfare Regulations | teaching, testing, experiments, research, or surgery but not yet used for such purposes. | experiments, of tests were conducted involving no pain, distress, or use of pain- relieving drugs. | conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquitizing drugs were used | have adversely affected the proce interpretation of the teaching, res | edures, results, or earch, in explanation of r distress in these | (Cols. C + D + E) |
| 4. Dogs | 0 | 0 | 1 | 0 | | 1 |
| 5. Cats | 0 | 0 | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | | 0 |
| 7. Hamsters | 0 | 0 | 0 | 0 | | 0 |
| 8. Rabbits | 0 | 0 | 16 | 0 | | 0 |
| 9. Non-human Primates | 3 | 0 | 12 | 0 | | 12 |
| 10. Sheep | - | | | | | |
| 11. Pigs | | | | | | |
| 12. Other Farm Animals | | | | | | |
| 13. Other Animals | | | | | | |
| <u>Prairie Dogs</u> | 6 | 0 | 54 | | | 54 |
| | | | · · · · · · · · · · · · · · · · · · · | | | |
| ASSURANCE STATEMENTS | Landards governing the | | | into use of anesthetic analogsic and t | | |

Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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.

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| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143) | | | | | |
|--|--|-------------------------|--|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED 10/16/00 | | | |
| APHIS FORM 7023 (Beplaces VS FORM 18-23 (OCT 8) | 3) which is obsolete) | | | | |

| This report is required by law result in an order to cease ar | | | | | See attached form additional information | | Interagency Re | | |
|---|---|---|--|---|---|---------------------------------------|--|-------------------------|--|
| | | NT OF AGRICULTURE | | 1. CERTIFICATE NUMBER: 31-R-0040 FORM APPROVED CUSTOMER NUMBER: 8740 | | | | | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | | Ohio Northern University 525 South Main Street Ada, OH 45810 Telephone: (419) -772-2033 | | | | |
| REPORTING FACILITY (1 | List all locations where anim | hals were housed or used in | actual research, testi | ng, or experimer | tation, or held for these purp | oses. Attach additior | al sheets if neo | essary) | |
| 2. Dept. of | llege of Pha Biological | Sciences FACE | ITY LOCATIONS (| | Atached Listing | Dept. of P | - | уду | |
| REPORT OF ANIMALS | USED BY OR UNDER (| CONTROL OF RESEAR | CH FACILITY (At | ach additiona | I sheets if necessarv o | 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 ye used for such purposes. | C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or 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 an 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz 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 a the reasons such drugs were not used must be attached this report). | | F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E) | | |
| Dogs | | | | | | | | | |
| Cats | | | | ······ | | | | | |
| Guinea Pigs | | | - | | | | | | |
| Hamsters | | | | | | | | | |
| Rabbits | | | | | | | | | |
| Non-human Primates | | | | | | · · · · · · · · · · · · · · · · · · · | • • • • | | |
| Sheep | | | | | | | | | |
| Pigs | | | | | | | | | |
| Other Farm Animals | | | | | | | | | |
| Other Animals | | | | | | | | | |
| | | | | | No covered a | animals ar | e | 0 | |
| ······ | | | | | being used a | at this ti | me. | | |
| ASSURANCE STATEMENT | <u> </u> | | | | | | | | |
| | | a care treatment and use | of enimels, including | | of anestetic, analgesic, and t | | orto durino | d following actual root | |

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 ap 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 inc 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) | | | | | | | | |
|---|--|-------------|--|--|--|--|--|--|
| SIGNATURE OF C.S.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED | | | | | | |
| | | 9-19-03 | | | | | | |
| APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.) | | | | | | | | |

(AUG 91)

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|---|---|--|-------------------------------|---|---|--|---|--|
| | TES DEPARTMENT OF A PLANT HEALTH INSPEC | | | 1 REGISTRATION | | FORM APP OMB NO 05 | | |
| | | | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address: as registered with USDA, include Zip Code) | | | | |
| ANNUAL REPOF | RT OF RESEAR | CH FACILITY | | Departmer | nt of Veterans Affa | irs | | |
| | PE OR PRINT) | | | | and Development Co | | iter (151A | |
| | | | | | Gay Street Room 4 | 00 | | |
| | | | | Baltimore | e, MD 21202-4051 | | | |
| 3. REPORTING FACILITY (List all sheets if necessary) | locations where animals | were housed or used | in actual res | earch, testing, teac | ning, or experimentation, or held for the | nese purposes. Atta | ch additional | |
| | | FA | CILITY LOCA | TIONS (Siles) | | | | |
| 539 VA Medical | l Center | | | | | | | |
| 3200 Vine Stre | eet | | | | | | | |
| Cincinnati, Ol | H 45220 | | | | | | | |
| REPORT OF ANIMALS USED BY C | OR UNDER CONTROL OF | RESEARCH FACILITY | l (Attach adi | ditional sheets if ne | cessary or use APHIS FORM 7023A.) | | | |
| A. Animals Covered By The Animal Wellare 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- releving drugs. | | experiments, ng, research, y, or tests were ted involving panying pain or s to the animals which appropriate etic, analgesic, or | E. Number of animals upon which t experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report) | in tests were ing pain or distress use of appropriate lixing drugs would cedures, results, or isearch, An explanation of or distress in these | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) | |
| 4. Dogs | | | 4.50 | · · · · · · · | | | | |
| 5. Cats | | | | | | _ | | |
| 6. Guinea Pigs | | | | | | | | |
| 7. Hamsters | | | | | | | | |
| 8. Rabbits | | |]] | 189 | | | 189 | |
| 9. Non-human Primates | | | L | | | | | |
| 10. Sheep | | | | | | | | |
| 11. Pigs | | | | 106 | | | 106 | |
| 12. Other Farm Animals | | | | | | ····· | | |
| 13. Other Animals | | | | | | | | |
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| | | | | | | | | |
| | 1 | L | I | | | | <u> </u> | |
| ASSURANCE STATEMENTS | | | | | | | | |

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.

| (Chief Executive O | HEADQUARTES RESEARCH FACILITY OFFICIAL fficer or Legally Responsible Institutional Official) above is true, correct, and complete (7 U.S.C. Section 2143). | |
|--|--|-------------|
| SIGNATURE OF A E A AR INSTITUTIONAL AFEIRIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | 11/15/00 |
| APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88) | , which is obsolete.) | |

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| UNITED STATE | S DEPARTMENT OF A | GRICULTURE | | 1. REGISTRATION | | FORM 4PP | |
| ANIMAL AND PL | ANT DEACTO MOVEO | | | | <u>V-001</u> | OMB NG 0: | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | 2. HEADOUARTERS RESEARCH FACILITY (Name and Address as registered with USDA include Zip Code) Department of Veterans Affairs Central Off: 810 Vermont Ave., N.W. Washington, DC 20420 | | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | cations where animals | were housed or used in | in actual rese | arch, testing, teac | hing, or experimentation, or | held for these purposes. Attac | ch additional |
| | <u></u> | FAC | CILITY LOCA | TIONS (Siles) | | · · · · · · · · · · · · · · · · · · · | |
| 583 VA Medical 1481 W 19t | | | | <u>``</u> | ····· | | |
| Indianapol | lis, IN 462 | 202 | | | | | |
| REPORT OF ANIMALS USED BY OR | | | l (Atlach adic | litional sheets if ne | | | |
| 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 teaching surgery, conduct accomp distress and for anesthe | of animals upon xperiments, , research, , or tests were ed involving anying pain or to the animals which appropriate tic, analgesic, or izing drugs were | to the animals and for anesthetic, analgesic, of have adversely affected interpretation of the te experiments, surgery, of the procedures produce | surgery or tests were companying pain or distress which the use of appropriate or tranquilizing drugs would d the procedures, results, or aching, research, or tests. (An explanation of ing pain or distress in these has such drugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | ļ | | | <u>.</u> | 0 |
| 5. Cats | | | <u> </u> | | | | 0 |
| 6. Guinea Pigs | | | | | | | 0 |
| 7. Hamsters | | | | | | · | 0 |
| 8. Rabbits | | | [| ···· | | | 0 |
| 9. Non-human Primates | | | | | | | 0 |
| 10. Sheep | | | | | | | 0 |
| 11. Pigs | | | | | | | 0 |
| 12. Other Farm Animals | | | [| | | | 0 |
| | | | | | | | 0 |
| 13. Other Animals | | | | | | | 0 |
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| ASSURANCE STATEMENTS | to de acusación the | - to atmost and u | tonimal | Sumfraffing menes | | the second size dense a | |
| Professionally acceptable sta and following actual research | | | | | | esic, and tranquilizing urugs, p | rior to, œuring, |
| Each principal investigator h This facility is adhering to th | e standards and regula | ations under the Act, a | and it has req | | | | |
| addition to identifying the IA 4). The attending veterinarian fo | CUC-approved excepti | ions, this summary incl | ludes a brief | explanation of the | exceptions, as well as the sp | ons is attached to this annua becies and number of animals a I to oversee the adequacy of ot | iffected |
| animal care and use. | | | - | | CH FACILITY OFFIC | | |
| | | ertify that the above is | | | Institutional Official U.S.C. Section 2143). |) | |
| SIGNATURE OF C.E.O. OR INSTITU | TIONAL OFFICIAL | | NAME | & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICI | AL (Type or Print) | DATE SIGNED |

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

| UNITED STAT | esult and to the subject ES DEPARTMENT OF A | GRICULTURE | 1. REGISTRATION | I NO. | FORM APPROVED |
|--|--|------------------------------------|--|--|-------------------------------|
| ANIMAL AND F | LANT HEALTH INSPEC | TION SERVICE | #33-V-0 | | OMB NO 0579 0036 |
| | | | 2. HEADQUARTER include Zip Cod | RS RESEARCH FACILITY (Name and Addrive) | ess, as registered with USDA. |
| ANNUAL REPOR | | | | f Veterans Affairs | |
| ANNUAL REPUR | PE OR PRINT) | | | mont Ave.,N.W ton, DC 20420 | |
| • | | | washing | LON, DC 20420 | |
| | | | | | Attach additional |
| 3. REPORTING FACILITY (List all t sheets if necessary.) | ocations where animals | were housed or used i | n actual research, testing, teac | hing, or experimentation, or held for these | purposes. Anach additional |
| | | FAC | CILITY LOCATIONS (Sites) | | |
| 537-LS Chi | and Haalth | Como Suctor | , Lakeside Divi | | |
| | ago nealth | Lare System | , Lakeside Divi | <u>S100</u> | |
| 333 E. Huron | Chicago, IL | 60611 | | ····· | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF B. Number of | RESEARCH FACILITY | | ecessary or use APHIS FORM 7023A) | hing, F. |
| Animals Covered | animals being bred. | animals upon which teaching, | D. Number of animals upon which experiments, teaching, research, | experiments, research, surgery or te conducted involving accompanying | sts were |
| By The Animal Welfare Regulations | conditioned, or held for use in | research, experiments, or | surgery, or tests were conducted involving | to the animals and for which the use anesthetic, analgesic, or tranquilizin | |
| | teaching, testing, experiments, | tests were conducted | accompanying pain or distress to the animals | have adversely affected the procedu interpretation of the teaching, resea | rch, |
| | research, or surgery but not | involving no pain, distress, or | and for which appropriate anesthetic, analgesic, or | the procedures producing pain or d | istress in these D + E) |
| | yet used for such purposes. | use of pain- relieving drugs | tranquilizing drugs were used | animals and the reasons such drug: must be attached to this report). | s were not used |
| 4. Dogs | | | | | |
| 5. Cats | | | | | |
| 6. Guinea Pigs | | | | | |
| 7. Hamsters | 26 | 0 | 60 | | 60 |
| 8. Rabbits | | | | | |
| 9. Non-human Primates | <u> </u> | | | | |
| 10. Sheep | | | | | |
| 11. Pigs | | | | | |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| Mice | 2069 | 3328 | 3735 | | 7063 |
| Rats | 29 | 0 | 280 | | 280 |
| | | | | 1 | |
| ASSURANCE STATEMENTS | | | | | |

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

| CERTIFICATION BY HEADQUARTES 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). | | | | | | | | |
|--|--|-------------|--|--|--|--|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED | | | | | | |
| APHIS FORM 7023 (Replaces VS FORM 18-23 (O (AUG 91) | | | | | | | | |

| This report is required by law (7 ref. It in on order to-17 ase and d | USC 2143). Failure 10: | raport according to th to penalties as provid | e regulatik, hi led for in Sec | s can stion 2150. | See reverse side for additional information | Interagency Rap 0180-DOA-AN | ort Control No |
|--|--|---|--|---|--|--|------------------------------|
| | ES DEPARTMENT OF A | GRICULTURE | | 1. REGISTRATION | | FORM APP | ROVED 579-0036 |
| ANIMAL AND P | | | ? 20 00 | 1 HEADOLIARTE | V-004 RESEARCH FACILITY (Name and A No) CUST # 554 | - | 1- 1- |
| ANNUAL REPOR (TY | T of Resear PE or Print) | CH FACILITY | | Department of Veterans Affairs Central Office 810 Vermont Avenue NW Washington, D.C. 20420 | | | |
| 3. REPORTING FACILITY (List all in sheets if necessary.) | ocations where animals | were housed or used | in actual res | earch, lesting, leac | hing, or experimentation, or held for t | hese purposes. Atta | ich additional |
| | | FAI | | TIONS (Sites) | | | |
| 578 VA Medical | Contor | 578/151 - Nick Guzz: | i) — | 708/202 | 2-5691 | | |
| Hines, IL. | | | | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | RESEARCH FACILITY | l (Allach adii | ditional sheets if ne | cessary or use APHIS FORM 7023A.) | | |
| A. Animals Covered By The Animal Wellare Regulations | Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or | C Number of animals upon which teaching, research, experiments, or tests were conducted involving no | which a teachin surgery conduct accomp distress | r of animals upon speriments, g. research, , or lests were led involving anying pain or : to the animals which appropriate | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversally affected the proc interpretation of the teaching, re experiments, surgery, or tests. | or tests were sying pain or distress le use of appropriate allizing drugs would coedures, results, or research, | F. TOTAL NO OF ANIMALS |
| | surgery but not yet used for such purposes | pain, distress, or use of pain- relieving drugs. | pain, distress, or anesthe use of pain-tranquili | | the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report) | | D + E) |
| 4 Dogs | 4 | 0 | | 54 | | | 54 |
| 5 Cais | 2 | 00 | † | 26 | ****** | | 26 |
| 6 Guinea Pigs | | | 4 | 40 | | | 40 |
| 7 Hamsters | 0 | · · · · · · · · · · · · · · · · · · · | | 98 | | | 98 |
| 8. Rabbits | 6 | 0 | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> |
| 9 Non-human Primates | | | | | | | 0 |
| 10 Sheep | | | | | | ···· | 0 |
| 11 Piqs | | 0 | | 6 | | | 6 |
| 12 Other Farm Animals | | | | | | | |
| Goat | | 0 | | 4 | | | 4 |
| 13. Other Animals | | | | | | ···· | |
| | | | | | | | |
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| ASSURANCE STATEMENTS | | | Laura a constanta da la constanta da | | | | 1 |
| 1) Projessionally acceptable sta | indates ooverning the c | are, treatment, and us | | saciuding approru | He use of anesthelic, analgesic, and t | (accuilizion dauge - | |

() Professionally acceptable standards governing the Care, treatment, and use of animals, including approvate use of anesthetic, analgesic, and tranquilizing drugs, prior to, duri 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

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| | DQUARTES RESEARCH FACILITY OFFICIAL or Legally Responsible Institutional Official) | | | |
|---|---|-----------|-------------|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | | or Print) | DATE SKINED | |
| | | | 10/31/00 | |

| $T_{\rm ES}$ report is required by faw to result in an order to cease and d | desist and to be subject | report according to the Lto penalties as provid | le my sidults ded for its Sec | non 2150 | t extrea de side t i k additional information | enternatete (z. 199) Urtuu-DCA AA | an an Angeler an Angele | |
|---|--|--|----------------------------------|--|---|--------------------------------------|---|--|
| UNITED STATE | ES DEPARTMENT OF A | GRICULTURE | | 1. REGISTRATION | NO. | FORM APP OMB NO. 01 | | |
| /······- | LANDINGSETT | How Gallering | ł | 33-V-006 | RS RESEARCH FACILITY (Name and A | OMB NO 05 Address, as registered | | |
| | | | .] | include Zip Cod | (0) | | Will 000. | |
| ANNUAL REPOR | T OF RESEAR | CH FACILITY | ž – 1 | | nt of Veterans Affa | irs | 1 | |
| (TY | (PE OR PRINT) | | ł | | ont Ave., N.W. on, DC 20420 | | | |
| | | | | WWJIVUNG - | Ji, Vo Lorat | | ł | |
| 2 DEDORTING FACILITY (List all In | locations where animals | were housed or used | in actual rese | arch: testing, teac | hing, or experimentation, or held for th | hese purposes. Atta | ch additional | |
| 3. REPORTING PACIENTY (LIST an id sheets it necessary.) | Jodeliuna minore s | Were nouse | 11 Get = | druit, roc. g. | | | ··· · · · · | |
| | | | CILITY LOCAT | (IONS (Sites) | | | | |
| VA Chicago Health | Cano Sustem | | (537) te | | | | | |
| VA CIALLEY HEALT | Luce Syana. | - WEST | <u>.e</u> | | | <u></u> | | |
| <u>2030 West Taylor S</u> | st., Chicago | IL 60612 | | | | | | |
| REPORT OF ANIMALS USED BY OF | B. Number of | F RESEARCH FACILITY | | | Cessary or use APHIS FORM 7023A.) | | | |
| A. | B. Number of animals being bred, | C Number of animals upon which leaching | which ex | of animals upon xperiments, | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany | or tests were | F. | |
| Animals Covered By The Animal Weltare Regulations | bred, conditioned, or held for use in | which teaching, research, experiments, or | surgery, | g, research, , or lests were | to the animals and for which the anesthetic, analgesic, or tranqui | e use of appropriate | TOTAL NO. OF ANIMALS | |
| Welfare Regulations | teaching, testing, experiments, | experiments, or tests were conducted | accompa | ted involving anying pain or to the asymptic | have adversely affected the proc interpretation of the teaching, re | cedures, results, or | UP ANIMALS | |
| | research, or surgery but not | involving no pain, distress, or | and for v | to the animals which appropriate | experiments surgery or tests / | (An explanation of | (Cois. C + D + E) | |
| | yet used for such purposes. | use of pain- relieving drugs. | uncanner | itic, analgesic, or lizing drugs were | animals and the reasons such d must be attached to this report). | irugs were not used | | |
| | 0 | 14 | | 4 | 0 | | | |
| 4. Dogs 5. Cats | 0 | 0 | | 0 | 0 | | 0 | |
| 6. Guinea Pigs | 0 | 0 | <u> </u> | 0 | 0 | | 0 | |
| 7. Hamsters | 0 | 0 | | 0 | 0 | | 0 | |
| 8. Rabbits | 0 | 0 | | 0 | 0 | | 0 | |
| 9. Non-human Primates | 0 | 3 | | 0 | 0 | | 3 | |
| 10. Sheep | 0 | 0 | | 0 | 0 | ····· | 0 | |
| 11. Pigs | 0 | 0 | | 0 | 0 | | 0 | |
| 12. Other Farm Animals | 0 | 0 | | 0 | 0 | | 0 | |
| | | | <u> </u> | | | | <u> </u> | |
| 13. Other Animals | | | | · | | | | |
| Rats | 24 | 479 | 2 | 86 | 0 | | 789 | |
| Mice | 56 | 367 | | 0 | 0 | | 423 | |
| | T | | | | | | | |
| ASSURANCE STATEMENTS | | | | | <u></u> | | | |
| 1) Professionally acceptable st and following actual researc | | | | | iate use of anesthetic, analgesic, and rch facility. | tranquilizing drugs, p | prior to, during, | |
| 2). Each principal investigator l | | | |)#eu by | ten raenty. | | | |
| 3). This facility is adhering to the | the standards and regula | ations under the Act, a | and it has requ | | ons to the standards and regulations b | | | |
| principal investigator and a | approved by the Instituti | ional Animal Care and | d Use Committe | tee (IACUC). A sun | mmary of all such exceptions is att exceptions, as well as the species and | tached to this annua | al report. In | |
| | | | | | adequate veterinary care and to overs | | | |
| | CERTIFIC | ATION BY HEA | DOLART | WO DESEAR(| CH FACILITY OFFICIAL | | <u></u> | |
| | (Chief E | | r or Legally | y Responsible | Institutional Official) | | | |
| SIGNATURE OF C.E.O. OR INSTITU | UTIONAL OFFICIAL | | NAME | & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (Type | or Print) | DATE SIGNED | |
|] | | | | | | | ulution | |
| | | | | | | | "I' In | |

| This report is required by law (7 USC 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 21 | See attached form for additional information. | Interagency Report Control No.: 0180-DOA-AN |
|--|--|--|
| TED STATES DEPARTMENT OF AGRICULTURE | 1. CERTIFICATE NUMBER: 42-F-0004 CUSTOMER NUMBER: 1586 | FORM APPROVED OMB NO. 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Nat'L Vet. Svcs Lab Box 844 | Telephone: (515)239-8504 |
| | Ames, IA 50010 | |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, | testing, or experimentation, or held for these purposes. Attac | ch additional sheets if necessary) |

FACILITY LOCATIONS (Sites) - See Atached Listing

| A. Animals Covered By The Animal Weifare Regulations | 8. | Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | Number of animals upon which teaching, esesarch, axperiments, or ests were conducted nvolving no pain, distress, or use of pain-relieving drugs. | D. | Number of animals upon which experiments, teaching, research, surgery, or fests 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 NUMBER OF ANIMALS (COLUMNS C + D + E) |
|---|----|--|--|----|---|---|---|--|
| 4. Dogs | | | 4 | | | | | 4 |
| 5. Cats | 1 | | | ţ | | | | |
| 5. Guinea Pigs | | <u></u> | 15 | | 56 | | | 71 |
| 7. Hamsters | | | | | | | | |
| 8. Rabbits | | | 10 | 1 | 131 | | | 141 |
| 9. Non-human Primates | | ······································ | | | | | | |
| 0. Sheep | | | 438 | | 6 | | | 444 |
| 1. Pigs | | | 100 | | 10 | | | 110 |
| 2. Other Farm Animals | | | ······································ | | | | | |
| Cattle | - | | 19 | 1 | | 1 | | 19 |
| 3. Other Animals | 1 | | | | | | 4 The second | |
| Horses | | | 10 | | 1 | | | 11 |
| Goats | | 2 | 4 | | | | | 4 |

ASSURANCE STATEMENTS

 Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, 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.

| | (Chief Executive Off | EADQUARTERS RESEARCH FACILITY OFFICIAL icer or Legally Responsible Institutional Official) 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 |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 (OCT 88), which is obsolete.) | | |

November 30, 2000

Annual report of the National Veterinary Services Laboratories (NVSL) for the period of October 1, 1999, through September 30, 2000.

- 1. Statement of reasons for not using drugs in experiments involving pain and distress: None required
- 2. Exceptions to adherence to the standards and regulations under the Act: None

| an order to cease a | and desist and to be subject | to penalties as provided for | in Section 21! | | additional information. | <u> </u> | inann |
|---|--|--|---|--|--|---|--|
| | | ENT OF AGRICULTURE | | | CATE NUMBER: 43-R-0048 DMER NUMBER: 1461 | | M APPROVED NO. 0579-0036 |
| ANNUA | L REPORT OF I (TYPE OR | RESEARCH FAC | CILITY | 205 Je Columi | sity Of Missouri-Columbia sse Hall bia, MO 65211 one: (573) -882-9500 | | |
| 3. REPORTING FACILITY (| List all locations where anin | nals were housed or used in | actual research, testi | ng, or experime | ntation, or held for these purposes. Attach additions | al sheets if nec | cessary) |
| | | | LITY LOCATIONS (| | 205 Jesse | | |
| REPORT OF ANIMALS | USED BY OR UNDER (| | CH FACILITY (Att | ach addition | al sheets if necessarv 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 ye used for such purposes. | C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use σ pain-relieving drugs. | D. Number of ani which experim teaching, rese surgery, or tes conducted inwa accompanying distress to the for which appr anesthetic, ani tranquilizing dr used. | ients, arch, its were olving pain or animala an opriate algesic, or | E. Number of animals upon which teaching, ex- research, surgery or tests were conducted is accompanying pain or distress to the anima- the use of appropriate anesthetic, analgesic drugs would have adversely affected the pro- or interpretation of the teaching, research, e surgery, or tests. (An explanation of the prin producing pain or distress in these animals such drugs were not used must be attached | involving als and for wh c, or tranquiliz ocedures, res experiments, ocedures and the rease | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 1. Dogs | 58 | 63 | | 268 | | | 331 |
| i. Cats | 51 | 56 | | 1.2 | | | <u> </u> |
| i. Guinea Pigs | 0 | 15 | 8 | <u>-</u> | | | 23 |
| , Hamsters | 8 | 47 | 96 | • | | | 143 |
| . Rabbits | 24 | 27 | 116 | | | | 143 |
| . Non-human Primates | 0 | 0 | 4 | 5 | 2002 | | 45 |
|). Sheep | 17 | 0 | 106 | | | | 106 |
| 1. Pigs | 70 | 140 | 286 | 5 | Ame | | 426 |
| 2. Other Farm Animals | | 1 2 0 | 200 | | | | 420 |
| | | | | <i></i> | - a | | |
| 3. Other Animals | | | | | | | |
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| ASSURANCE STATEMENTS | · · | ····· | | | · · · · | | |

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese 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 ap 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 inx brief explanation of the exceptions, as well as the species and number of animals affected.

4) The altending 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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| (TYPE OR PRINT) Washington, DC 20420 3. BEPORTING FACILITY (Data all locations where annots were housed or used in actual research, testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or experimentation, or hold for these purposes. Attach additional testing, teaching, or or or or or advised testing, teaching, or or or or advised testing, teaching, additional testing, teaching, teaching, additional testing, teaching, additionad testing, teaching, additionad testing, teaching, additi | (TYPE OR PRINT) Vasinington, DC 20420 According reaction of the control of the con | | T OF RESEAR | | | Dept. Of 810 Varmo | Veterans Attairs Hu | eadquarters | |
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| ept. of Veteraas Affairs Medical Center 15 N. Grand Blvd., JC Division 15 N. Grand Blvd., JC Division 16 Louis, MO 63106 Dept. of Veterass Affairs Hedical Center #1 Jefferson Barracks, JB Division Report of ANMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY Affacts administration of the administration administresearch admine administration of the administration of | Dept. of Veterzas Affairs Medical Center 15 M. Grand Bivd., JC Division Dept. of Veterzas Affairs Medical Center 11 Jefferson Barracks, JB Division St. Louis, MO 63106 St. Louis, MO 63106 St. Louis, MO 63106 St. Louis, MO 63106 Amazina Count of Walars Regulation Number of Number of Number of St. Louis, MO 63106 Provide St. Louis, MO 63106 Amazina Count of Walars Regulation Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Number of Num | | | | | 31 | 3 | | |
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| 11. Pigs | 11. Pigs 12. Other Farm Animals 13. Other Animals 14. Protessionally acceptable standards governing the care, treatment, and use of animals, including approvale use of animals, and the opportunity of the standards governing the care, treatment, and use of animals, including approvale use of animals, and the standards governing the care, treatment, and use of animals, including approvale use of animals, and the standards and regulations be specified and explained by the principal investigator has considered alternatives to painful procedures. 1) Protessionally acceptable 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 lightitutional Animal Care and Use Committee (IACC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACC approved exceptions, this summary includes a birle 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 everse the adequacy of other aspects of animal care and use CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (2 U S C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL O | 9. Non-human Primates | | | | | | | |
| 12. Other Farm Animals 13. Other Animals 13. Other Animals 146 Mice 5,030 146 | 12. Other Farm Animals | 10. Sheep | | | | | | | |
| 13. Other Animals 5,030 5,030 Mice 5,030 145 | 13. Other Animals 5,030 Mice 5,030 Rats 146 ASSURANCE STATEMENTS 146 1. Protessionally acceptable standards governing the care, treatment, and use of animals, including approrate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research tability. 2. Each principal investigator has considered alternatives to painful procedures. 3. This lacitly 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 histilutional Annal 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 in animal care and use. CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and counder (7 US C Section 2143). Signature of C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL | 11Pigs | | | | | · · · · · · · · · · · · · · · · · · · | | |
| 13. Other Animals 5,030 5,030 Mice 5,030 145 | 13. Other Animals 5,030 Mice 5,030 Rats 146 ASSURANCE STATEMENTS 146 19. Professionally acceptable standards governing the care, treatment, and use of animals, including approrate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research tacility. 2) Each principal investigator has considered alternatives to painful procedures. 3) This lacitly is adhering to the standards and regulations under the Act, and thas required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the histilutional 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 briel 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and counder (7 US C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL | 12 Other Farm Animals | | | | 18110 | | | |
| Mice 5,030 5,030 | Mice 5,030 5,030 Rats 146 146 Assurance statements I) Professionally acceptable standards governing the care, treatment, and use of animals, including appronate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research tacility. 2) Each principal investigator has considered alternatives to painful procedures. 3) This lacility 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, its will as the species and number of animals affected 4) The attending veterinarion 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certury that the above is true, correct, and committer (7 US C Section 2143) SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL | | | ····· | 1 | | | | |
| Mice 5,030 5,030 | Mice 5,030 5,030 Rats 146 146 Assurance statements I) Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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 standards and regulations 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certuty that the above is true, correct, and committe (7 US C Section 2143) SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL | 13 Other Animals | | | | | | | |
| 146 | Rats 146 146 Assurance statements 1) Protessionally acceptable standards governing the care, treatment, and use of animals, including approriate 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 lacility 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 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 US C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL | | | 5.030 | + | <u></u> | | | 5,030 |
| | ASSURANCE STATEMENTS 1) Protessionally acceptable standards governing the care, treatment, and use of animals, including approvate 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 lacility 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and contaler (7 U S C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL DATE SIGN | | | | - | ······ | | | 146 |
| | Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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. 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 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Leertify that the above is true, correct, and complete (7 US C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | Kals | - | | | | | | - |
| ASSUBANCE STATEMENTS | Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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. 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 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Leertify that the above is true, correct, and complete (7 US C Section 2143). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | ASSUBANCE STATEMENTS | | | | | | | |
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| | 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. | 2) Each principal investigato | r has considered alternat | ives to painful proced | iures. | | | | |
| and following actual research, teaching, testing, surgery, or experimentation were followed by this research belifty. | 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 HEADQUARTES 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). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGN | principal investigator and | approved by the Instituti | ional Animal Care and | I Use Comm | hittee (IACUC). A su | mmary of all such exceptions is a | ttached to this annu | al report. In |
| 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 | animal care and use. CERTIFICATION BY HEADQUARTES 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). SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) DATE SIGN | , . | | | | • | | | |
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| and following actual research, teaching, testing, surgery, or experimentation were followed by this research tacility. 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 or animal care and use. | | | (Chief E | xecutive Officer | r or Lega | lly Responsible | e Institutional Official) | | |
| and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility. 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 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 or animal care and use. | | SIGNATURE OF C.E.O. OR INST | | | | | | e or Print) | DATE SIGN |
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| This report is required by law (result in an order to cease and | 7 USC 2143). Failure to re | port according to the re penalties as provided | egulations can for in Section 21 | | See reverse side for additional information. | Interagency Rep 0180-DOA-AN | ort Control NO |
|---|---|--|--|--|---|--|---|
| LIMITED ST | TES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE | | 1. REGISTRATIC 48-R-0039 | 1420 | FORM AP OMB NO. (| 579-0036 |
| ANNUAL REPO | RT OF RESE | ARCH FACI | LITY | 2. HEADQUART include Zip Co | HILL SCIENCE & TEC | | red with USDA, |
| | (TYPE OR PRIN | | | | PO BOX 1658 TOPEKA, KS 66601 | | |
| REPORTING FACILITY (List a | locations where animals | were housed or used in | n actual research, | testing, teaching, o | or experimentation, or held for these | e purposes. Attach additi | onal |
| sheets if necessary.) | | | FACILITY LOCA | TIONS(sites) | | | |
| TE1 DPEKA, KS 66617 | | 1 | | | | | |
| | OD LINDER CONTROL O | E DESEARCH FACILI | TY (Attach additio | onal sheets if neces | sary or use APHIS FORM 7023A) | | |
| PORT OF ANIMALS USED BY | B. Number of | C. Number of | D. Number | or animals upon | E. Normosi of annual of Surger | rv or tests were | F. |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animats upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | teaching surgery, conducte accompa distress and for v anesthei | periments, , research, or tests were ad involving anying pain or to the animals which appropriate tic, analgesic, or zing drugs were | conducted involving accompa- to the animals and for which it anesthetic, analgesic, or trano have adversely affected the p interpretation of the teaching, experiments, surgery, or tests the procedures producing pai animals and the reasons suc- must be attached to this repo | Inving pain or distress the use of appropriate julizing drugs would procedures, results, or research, s. (An explanation of in or distress in these h drugs were not used | TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| Dogs | 40 | 453 | | | | | 453 |
| Cats | 35 | 552 | | | | | 552 |
| . Guinea Pigs | | | | | | | |
| . Hamsters | | ļ | | <u></u> | | | |
| . Rabbits | | <u> </u> | | | | | |
| . Non-Human Primates | | | | | | | |
| 0. Sheep | | | | <u></u> | | | |
| I1. Pigs | | | | | | | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | | | | |
| | | _ _ | | | | <u>_</u> | |
| | | | | | | <u></u> | |
| : | | 1 | | | | | |
| and following actual reso 2) Each principal investigat | or has considered alternat | ives to painful procedu ations under the Act, ar | res. nd it has required | that exceptions to | the standards and regulations be sp | pecified and explained by | y the |
| addition to identifying th 4) The attending veterinari aspects of animal care a | e IACUC-approved except an for this research facility | has appropriate autho | rity to ensure the | provision of adequ | ate veterinary care and to oversee | the adequacy of other | |
| | CERT | of Free suting Off | icer or Lena | Ilv Responsib | CH FACILITY OFFICIAL le Institutional official) (711 S.C. Section 2143) | | |
| SIGNATURE OF C.E.O. O | 1 | certify that the abov | a la basa contai | | (7 U.S.C. Section 2143) INSTITUTIONAL OFFICIAL (7) | ype or Print) | DATE SIGN |
| | | | | | | ISSN 1999 1999 1999 | 10/27/200 |
| | (Replaces VS FORM | | | | | DADT 1 | HEADQUART |

| UNITED STA | TES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE | | 1. REGISTRATION | · · · · · | FORM APP OMB NO 0 | |
|---|---|--|---|---|---|--|--|
| ANIMAL AND | PLANT HEALTH INSPEC | SION SERVICE | | 51-F-00 | | | |
| | اند. مربعا | | | include Zin (| IS RESEARCH FACILITY (Name and Ad -F-0012, Cust Id 529 | laress, 25 registered | T WIIN USUA, |
| ANNUAL REPOR | RT OF RESEAR YPE OR PRINT) | CH FACILITY | | U | GRICULTURAL RESEARCH SERVIC SDA-BARC, BLDG.003, BARC-WES1 ELTSVILLE, MD 20705 | | : · · · · |
| REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used i | n actual rese | earch, testing, te | . | | h additional |
| ······································ | | FAC | ILITY LOCA | TIONS (Siles) | | | |
| | , 010A, 1019 | 1126 132 | 7 308 | C 307 | | | |
| brugs. 211 | , 010A, 1019 | , 1120, 192 | 7, 500 | 507 | | | <u> </u> |
| | | | | | | | |
| EPORT OF ANIMALS USED BY C | B Number of | RESEARCH FACILITY | | | cessary or use APHIS FORM 7023A) * | aching. | F. |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held lor use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which teaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs. | which ei teaching surgery, conduct accomp distress and for anesthe | of animals upon xperiments, g, research, , or tests were led involving banying pain or . to the animals which appropriate thic, analgesic, or izing drugs were | experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili, have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain of animals and the reasons such dru must be attached to this report). | ing pain or distress use of appropriate zing drugs would edures, results, or earch, n explanation of r distress in these | TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| Dogs | | 8 | | | | | 8 |
| Cats | 27 | 140 | | <u></u> | | | 140 |
| Guinea Pigs | | | | | | | |
| Hamsters | | | | | | | |
| Rabbits | | 20 | | | | | 20 |
| Non-human Primates | | ······ | | | · · · · · · · · · · · · · · · · · · · | | |
|). Sheep | | ····· | | | | | <u></u> |
| 1. Pigs | 134 | 13 | 19 |) | · | | 32 |
| 2. Other Farm Animals | | | | | | | |
| CHICKENS | | 3,000 | | | | | 3,000 |
| 8. Other Animals | | | | | | | |
| RATS | 6 | 451 | | | | | 451 |
| MICE | 1450 | 10,916 | | 596 | | | 11,51 |
| GERBILS | 50 | 200 | | | | | 200 |
| SURANCE STATEMENTS | | | | | | · · · · · · · · · · · · · · · · · · · | a de la company de la comp |

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.

| (Chief Executive | Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) he above is true, correct, and complete (7 USC Section 2143) | |
|--|--|-------------|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | 11-27-3 |
| APHIS FORM 7023 Sectors Vol FORM 18 23 - 001 8 | | |

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| This report is required by law (7 USC 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 21! | See attached form for additional information. | Interagency Report Control No.: |
|---|--|------------------------------------|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 51-R-0019 CUSTOMER NUMBER: 396 | FORM APPROVED OMB NO. 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Genetic Therapy Inc. 9 West Watkins Mill Rd Gaithersburg, MD 20878 Telephone: (301) -258-4664 | SEP 2 6 2003 |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, test | ling, or experimentation, or held for these purposes. Attach a | dditional sheets if necessary) |

FACILITY LOCATIONS (Sites) - See Atached Listing

| REPORT OF ANIMALS | USED BY OR UNDER (| CONTROL OF RESEAR | CH FACILITY (Attach additiona | al sheets if necessarv 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 ye 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 an 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz 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 a the reasons such drugs were not used must be attached this report). | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | | | | | 0 |
| 5. Cats | | | | | 0 |
| 6. Guinea Pigs | | | | | 0 |
| 7. Hamsters | | | | | 0 |
| 8. Rabbits | | | | | 0 |
| 9. Non-human Primates | | | | | |
| 10. Sheep | | | | | 00 |
| 11. Pigs | | | | | 0 |
| 12. Other Farm Animals | | | | | 0 |
| | | | | | 0 |
| 13. Other Animals | | | | | |
| | | | | | 0 |
| | | | | | |
| | | | | | |
| ASSURANCE STATEMENTS | | | | | |

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese 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 ap 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 inc 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) | |
|---|-------------|
| NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |

CT 88), which is obsolete.)

| | ES DEPARTMENT OF A | | 1. REGISTRATION | N NO. 4, Cust Id 726 | FORM APPROVED OMB NO 0579-0036 |
|---|--|---|--|--|--|
| | | | | RS RESEARCH FACILITY (Name and Add | |
| ``` | PE OR PRINT) | | | NAVAL MEDICAL CEN CLIN INVEST/RES, 620 JOHN PAUL JON PORTSMOUTH, VA 23 | CODE 1203 ES CIRCLE 708-2197 |
| | ical Investigat | ion and Resear | rch Department | | |
| | | FAC | CILITY LOCATIONS (Siles) | | |
| Building 274 | | | | | |
| | | | | | |
| | | | f (Attach adiditional sheets if n | ecessary or use APHIS FORM 7023A) | |
| A Animals Covered By The Animal Weltare 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 trangulizing drugs were used | E. Number of animals upon which leave experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquitiz have adversely affected the proceinterpretation of the teaching, reserver interpretation of the teaching, reserver interpretation of the reasons such drum must be affached to this report). | tests were g pain or distress ise of appropriate TOTAL N OF ANIM dures, results, or earch, n explanation of distress in these D + E |
| 4. Dogs | | | 9 | | 9 |
| 5. Cats | | | | | |
| 6. Guinea Pigs | 2 | | 24 | | 24 |
| 7. Hamsters | | | | | |
| 8. Rabbits | | | 5 | | 5 |
| 9. Non-human Primates | | | | | |
| 10. Sheep | | | | | |
| 11. Pigs | | | 39 | | 39 |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| Ferrets | | | 9 | | 9 |
| | | | | | |
| | | | | | |
| | | | | | |
| and following actual researc | ch, teaching, testing, sur | rgery, or experimental | tion were followed by this resea | irrate use of anesthetic, analgesic, and tra arch facility | anquilizing drugs, prior to, during |
| Each principal investigator I This facility is adhering to the | | | | ions to the standards and regulations be | den dia ang ang ang ang ang ang ang ang ang an |
| principal investigator and a | pproved by the Institution | onal Animal Care and | Use Committee (IACUC). A su | ions to the standards and regulations be immary of all such exceptions is attain e exceptions, as well as the species and it | ched to this annual report. In |
| · - | | | | adequate veterinary care and to oversee | |

| . <u> </u> | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
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| | | 270ct00 |

| result in an order to cease and de UNITED STAT | ES DEPARTMENT OF | AGRICULTURE | 1. R | EGISTRATION NO | D. FORM APPROVED | , l |
|---|--|--|--|---|---|-------------------------|
| ANIMAL AND PI | ANT HEALTH INSPEC | TION SERVICE | 2 7 2005 | 55F- | -007 | 36 |
| | | | 2. H | IEADQUARTERS F | RESEARCH FACILITY (Name and Address. as registered w | with USDA |
| | | | inclu | ude Zip Code) J(| DINT SPECIAL OPERATIONS MEDICAL TH | |
| | | | | 0: | SAJFKSWC&S, 1SWTG (A), FORT BRAGG | 5, NC 28310-5200 |
| | | ARCH FACILITY | | | | |
| REPORTING FACILITY (List at | PE OR PRINT | were housed or used in a | tual research tes | sting teaching or e | experimentation, or held for these purposes. Attach addition | al |
| heets if necessary), JOINT SI | PECIAL OPERAT | IONS MEDICAL TI | RAINING CEN | TER (JSOMT | C), FORT BRAGG, NC 28310-5200 | |
| ACILITY LOCATIONS (Sites) | | | | | | |
| BLDG. 5-3845 / 5-3743, J | SOMTC, FORT E | RAGG, NC 28310- | 5200 | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL | | TV (Attach addition | al sheets if | | |
| necessary or use APHIS FORM 70 | | L OF RESEARCH FACILI | | iar sneets ii | | |
| A. Animals Covered By The Animai Welfare Regulations | B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, | C Number animals upon which teaching, research, experiments, or tests were conducted | of D. Number of an which experimen teaching, resear surgery, or tests conducted involv accompanying p distress to the ai | nts. e rch, c s were t ving a pain or f | E. Number of animals upon which tead experiments. research, surgery or tests were conducted involving accompanying pain or distress o the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures. results, or of the teaching, research, | TOTAL NO. OF ANIMAL: |
| | research. or | involving no | and for which ap | opropriate e | experiments, surgery, or tests. (An explanation of | (Cots. C - |
| | surgery but not | pain, distress, or | anesthetic, anal | - | he procedures producing pain or distress in these | D+E) |
| | yet used for such | use of pain- | tranquilizing dru | ° (| animals and the reasons such drugs were not used | |
| I. Dogs | purposes. | relieving drugs. | used. | | nust be attached to this report). | |
| . Cats | | | - | | all a faith for the second | |
| . Guinea Pigs | · · · · · · · · · · · · · · · · · · · | | | | | |
| . Hamsters | | | | | | |
| B. Rabbits | NONE | NONE | 475 | | NONE | 475 |
|). Non-human Primates | | | - | | | |
| 0. Sheep | | | -1 | | | |
| 1. Pigs | NONE | NONE | 30 |) | NONE | 30 |
| 2. Other Farm Animals | | | | | | |
| GOATS | NONE | NONE | 1435 | 5 | NONE | 1435 |
| 3. Other Animals | | | | | | |
| CHICKENS | NONE | NONE | 475 | | NONE | 475 |
| SSURANCE STATEMENTS | | | | | | |

2). Each principal investigator has considered alternatives to painful procedures.

3). This facility is adhering to the standards and regulations under the Act, arid it has required that exceptions to the standards arid regulations he specified and explained by the principal investigator arid approved by the Institutional Animal Care arid Use Commit tee (IACUC) A summary of all such exceptions is attached to this annual report. In addition to identifying the 1ACUC-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.

C ERTIFICATION BY HEADQUARTERS RESEARCH FACI LITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

I certify that The above is true correct, arid complete (7 U S C Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

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

APTIS FURINI / U23 (Replaces VS FORM 18-23 (OC:T 88), which is obsolete) (AUG 91)

| The reputer required to severe result in an order to cease and d | , Rolling to the subject | gent ac aos d'anne to penaltes as prozeix | negatation and car at tooling Section 2150 | See towards official in the agency R additional information 0136-00ArAN | egolatti oota oo*⊈oo |
|---|---|---|---|---|---------------------------|
| UNITED STAT | ES DEPARTMENT OF AC | RICULTURE | 1. REGISTRATION | LOUGH P | PPROVED |
| ANIMAL AND P | LANT HEALTH INSPECT | HON SERVICE | 56-V-00 | 2 OMB NO RS RESEARCH FACILITY (Name and Address, as register | 0579-0036 |
| ANNUAL REPOR (TY | T OF RESEAR (PE OR PRINT) | CH FACILITY | include Zip Cod Departme 810 Verm | | |
| 3. REPORTING FACILITY (List all h | ocations where animals | were housed or used H | n actual research, testing, teac | hing, or experimentation, or held for these purposes. A | ttach additional |
| sheets if necessary.) | | | | | |
| | | FAC | ILITY LOCATIONS (Sites) | | |
| 534 VA Medical (| lenter | | | | |
| 109 Bee Stre | | 700 | | | |
| Charleston, REPORT OF ANIMALS USED BY O | SC 29401-5 R UNDER CONTROL OF | 799 RESEARCH FACILITY | (Attach adiditional sheets if ne | ecessary or use APHIS FORM 7023A) | |
| A. | B. Number of animals being | C Number of | D. Number of animals upon | E. Number of animals upon which teaching, experiments, research, surgery or tests were | F. |
| Animals Covered By The Animal Welfare Regulations | bred, conditioned, or held for use in feaching, testing, | animals upon which teaching, research, experiments, or tests were | which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or | conducted involving accompanying pain or distres to the animals and for which the use of appropriat anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or | e TOTAL NO. OF ANIMALS |
| | experiments, research, or surgery but not yet used for such purposes. | conducted involving no pain, distress, or use of pain- relieving drugs. | distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used | 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 use must be attached to this report). | |
| 4. Dogs | | · · · · · · · · · · · · · · · · · · · | | | |
| 5. Cats | 14 | 0 | 74 | 0 | 74 |
| 6. Guinea Pigs | | | | | |
| 7. Hamsters | | | | | |
| 8. Rabbits | 0 | 0 | 29 | 0 | 29 |
| 9. Non-human Primates | | | | | |
| 10. Sheep | | | · · · · · · · · · · · · · · · · · · · | | |
| 11. Pigs | | | | | |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| Rats | 147 | 239 | 0 | 0 | 239 |
| Mice | 0 | 50 | 4036 | 0 | 4,086 |
| | | | | L | |
| ASSURANCE STATEMENTS | | nam tradmast | so of animals industry | iate use of anesthetic, analgesic, and tranquilizing drug | |
| | | | ion were followed by this resea | | s, prior to, during, |
| 2). Each principal investigator | | | | | |
| principal investigator and a | pproved by the Institution | onal Animal Care and | Use Committee (IACUC). A sur | ons to the standards and regulations be specified and ex mmary of all such exceptions is attached to this an exceptions, as well as the species and number of anima | nual report. In |
| The attending veterinarian f animal care and use. | or this research facility | has appropriate autho | rity to ensure the provision of a | adequate veterinary care and to oversee the adequacy o | l other aspects of |
| | (Chief Ex | ecutive Officer | DQUARTES RESEAR(or Legally Responsible true, correct, and complete (7 | | |
| SIGNATURE OF C.E.O. OR INSTIT | UTIONAL OFFICIAL | ····· | NAME & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |

20/17/00

| UNITED STATE ANIMAL AND PU | S DEPARTMENT OF AC | BRICULTURE | | 1. REGISTRATION | | FORM APPI OMB NO 05 | |
|--|---|---|---|--|---|---|---|
| | | | | | S RESEARCH FACILITY (Name and | d Address, as registered | with USDA, |
| ANNUAL REPOR | ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) REPORTING FACILITY (List all locations where animals were housed or used in actual | | | Department of Veterans Affairs Central Office 810 Vermont Ave., NW Washington, D.C. 20420 | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | cations where animals | were housed or used i | n actual res | earch, testing, teach | ning, or experimentation, or held to | r these purposes. Attac | ch additional |
| | | FAC | LITY LOCA | TIONS (Sites) | | | |
| WJB Dorn VA Medi | cal Center | | | | | | |
| 6439 Garners Fer Columbia, SC 29 | ry Road 209 -1 639 | | | | | | |
| REPORT OF ANIMALS USED BY OF | B. Number of | RESEARCH FACILITY | | | cessary or use APHIS FORM 7023A E. Number of animals upon which | | F. |
| 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 i teachir surger conduc accom distres and foi anesth | r of animals upon experiments, gr, research, y, or tests were ted involving panying pain or s to the animals r which appropriate etic, analgesic, or ilizing drugs were | experiments, research, surger conducted involving accomp- to the animals and for which anesthetic, analgesic, or tran- have adversely affected the p interpretation of the teaching experiments, surgery, or tests the procedures producing pa animals and the reasons suc- must be attached to this repo- | ry or tests were anying pain or distress the use of appropriate quilizing drugs would procedures, results, or , research, s. (An explanation of in or distress in these h drugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| t. Dogs | | | | | | | |
| 5. Cats | | | | | | | |
| 6. Guinea Pigs | | | | | | | ļ |
| 7. Hamsters | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 8. Rabbits | | 136 | 1 | 43 | | | 279 |
| 9. Non-human Primates | | | | | | <u></u> | |
| 10. Sheep | | | | | - <u></u> | | ļ |
| 11. Piqs | | | | | | | |
| 12. Other Farm Animals | | | | <u></u> | | | |
| 13. Other Animals | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ASSURANCE STATEMENTS 1) Professionally acceptable st and following actual researc | andards governing the ch, teaching, testing, su | care, treatment, and u rgery, or experimental | ise of anima lign were to | its, including approv Nowed by this resear | iate use of anesthetic, analgesic, a rch facility | nd tranquilizing drugs, p | prior to, during, |
| principal investigator and a | he standards and regula pproved by the Instituti | itions under the Act, a onal Animal Care and | ind it has re Use Commi | Hee (IACUC) A sur | ins to the standards and regulation nmary of all such exceptions is exceptions, as well as the species | attached to this annu | al report. In |

| CERTIFICATION BY HEADQUARTES 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) | | | | |
|--|--|-------------|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED | | |

| This report is required by law (7 result in an order to cease and d | USC 2143) Failure to r | eport according to the to penalties as provide | regulations can Id for in Section 2150. | | See reverse side for additional information. | Interagency Repo 0180-DOA-AN | rt Controi No |
|--|---|---|---|--|--|--|--|
| UNITED STAT | ES DEPARTMENT OF AC | RICULTURE | 1. REGIST | RATION | | FORM APPE | ROVED 79-0036 |
| Marketing | 2 & Plant Re | gulatory Pr | ogram | | -0005, Cust ld 946 | , | wilh USDA |
| 920 Main | Campus Dr. | Suite 200,0 | 304.0 include | Zir | -USDA RB RUSSELL AG.RES.CTR | | 59 ⁻³⁵ |
| Raleigh, ANNUAL REPOR | T OF RESEAR | CH FACILITY | | P.O | BOX 5677, 950 COLLEGE STA | - 3 - | |
| USDA, ARS, Ru | ussell Resea | rch Center | | | | | |
| 3. REPORTING FACILITY (List all li sheets it necessary.) | ocations where animals | were housed or used in | actual research, lesti | ng, teachi | ing, or experimentation, or held for thes | se purposes. Attac | h additional |
| | | FAC | ILITY LOCATIONS (Sile | es) | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | |
| Research Cen 950 College | | ., Athens G | a.30605 | | e Farm, South Milled | | |
| | | <u></u> | | <u>Athe</u> | try Research Center, ens, GA. | South Mi | lledge Ave |
| | the second s | | | · · · · · · · · · · · · · · · · · · · | essary or use APHIS FORM 7023A) | ahiaa | |
| A Animais 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 leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | D. Number of animals which experiments leaching, research surgery, or lests w conducted involvin accompanying pai distress to the ani and for which app anesthetic, analge tranquilizing drug used. | s, here ng mals ropriate isic, or | E Number of animals upon which teal experiments, research, surgery or to conducted involving accompanying to the animals and for which the us anesthetic, analgesic, or tranquiliz have adversely affected the procec- interpretation of the teaching, rese experiments, surgery, or tests. (An the procedures producing pain or animals and the reasons such drug must be attached to this report). | ests were g pain or distress se of appropriate ing drugs would dures, results, or parch, explanation of distress in these | F. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | <u>.</u> | | | |
| 5. Cats | | · · · · · · | | | :: | | |
| 6. Guinea Pigs | | | | | · · · · · · · · · · · · · · · · · · · | | |
| 7. Hamsters | | | | | | | |
| 8. Rabbits | | Ĺ | | | · | | ļ |
| 9. Non-human Primates | | | | | | | |
| 10. Sheep | | | | | · | | ļ |
| 11 Piqs | | | 90 | | | | 90 |
| 12. Other Farm Animals | · . | | | | · · · | <u></u> | |
| Poultry | | | 6974 | | | | 6974 |
| 13. Other Animals | | ļ | | | | | <u> </u> |
| Rats | | 177 | | | | | ļ |
| Mice | | 101 | <u> </u> | | | | <u> </u> |
| | | · · | | | · | | <u> </u> |
| ASSURANCE STATEMENTS | | | | | | | |
| Professionally acceptable and following actual resea | standards governing the irch, teaching, lesting, s | care, treatment, and t urgery, or experimenta | use or animals, includin tion were followed by t | ig approri his resea | iate use of anesthetic, analgesic, and tr rch facility. | anquinzing drugs, ¢ | nor to, auring, |
| 2). Each principal investigato | r has considered alterna | tives to painful proced | ur e s. | | | | |
| principal investigator and | approved by the Institut | tional Animal Care and | Use Committee (IACU | C) A sur | ons to the standards and regulations be mmary of all such exceptions is atta- exceptions, as well as the species and | ched to this annu | al report. In |
| The attending veterinarian animal care and use. | for this research facility | y has appropriate auth | urily to ensure the prov | vision of a | adequate veterinary care and to overset | e the adequacy of o | ther aspects of |
| | (Chief B | CATION BY HEA Executive Officer certify that the above i | or Legally Resp | onsible | CH FACILITY OFFICIAL Institutional Official) USC Section 2143) | | <u></u> |
| SIGNATURE OF C.E.O. OR INST | | | | | OR INSTITUTIONAL OFFICIAL (Type of | Print) | DATE SIGNED |
| | | | | | | | L |

APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete) (AUG 91)

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| This report is required by law (7 USC 2143). Failure to report according to the regulations | See attached form for additional information | Interagency Report Control N: |
|---|--|------------------------------------|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 57-R-0114 CUSTOMER NUMBER: 1709 | FORM APPROVED OMB NO. 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | 1130 Crosstown Court Peachtree City, GA 30269 Telephone: (770) -486-0077 | |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testi | ing, or experimentation, or held for these purposes. Attach additionation | al sheets if necessary) |

FACILITY LOCATIONS (Sites) - See Atached Listing

| 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 ye | 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, a | 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 | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
|---|---|--|---|--|--|
| 4. Dogs | | 1 | | | 0 |
| 5. Cats | | | | | 0 |
| 6. Guinea Pigs | | | | | 0 |
| 7. Hamsters | | | · | | 0 |
| 8. Rabbits | | | | | 0 |
| 9. Non-human Primate | | | | | Ő |
| 0. Sheep | | | | | 0 |
| 1. Pigs | | | | | 0 |
| 2. Other Farm Animals | | | | | 0 |
| 3. Other Animals | | | | | 0 |
| | | | | | 1 |
| | | | | | |
| ASSURANCE STATEMENT | | | | e of anestetic, analgesic, and tranquilizing drugs, prior to, during, a | |

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

| | | ADQUARTERS RESEARCH FACILITY OFFICIAL r or Legally Responsible Institutional Official) | |
|---------------------|--|--|-------------|
| SIGNATURE OF C.E.O. | OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print | DATE SIGNED |
| | | | 12-10.00 |
| APHIS FORM 7023 | (Replaces VS FORM 18-23 (OCT 88), which is obsolete. | · · · · · · · · · · · · · · · · · · · | |

(AUG 91.)

| Thus on collas reported by faw e result in all order to cease and o | tera 1. Yun Carron ton Ieust and Io be subject | eport a constant la tre lo penalties as providi | n og date og eller ed for in Section 2450 | additional information | anbi a de Zierperte uz eatra e 0130 ∂CA AN |
|--|--|--|--|---|--|
| | ES DEPARTMENT OF A | GRICULTURE | 1. REGISTRATION | | FORM APPROVED |
| ANIMAL AND P | CANT HEALTH HAD EO | | 57-V-00 | 2 RS RESEARCH FACILITY (Name and Ad | OMB NO 0579-0036 |
| | | | include Zip Coo | te) | |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | 810 Verm | nt of Veterans Affa ont Avenue NW on, DC 20420 | irs Headquarters |
| 3. REPORTING FACILITY (List all le sheets if necessary.) | ocations where animals | were housed or used i | n actual research, testing, teac | ching, or experimentation, or held for th | ese purposes. Attach additional |
| | | FAC | ILITY LOCATIONS (Siles) | | |
| (509) VA Medical | | | | | |
| Augusta, G | GA 30904-62 | 35 | | | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF | RESEARCH FACILITY | (Attach adiditional sheets if ne | ecessary or use APHIS FORM 7023A.) | |
| A. | B. Number of animals being | C Number of animals upon | Number of animals upon which experiments, | E. Number of animals upon which to experiments, research, surgery of | r tests were |
| Animals Covered By The Animal Welfare Regulations | bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not yet used for such purposes. | which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | which expensions, 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 | conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc- interpretation of the teaching, re- experiments, surgery, or tests. (A the procedures producing pain c animals and the reasons such dr must be attached to this report). | use of appropriate tzing drugs would edures, results, or search, An explanation of or distress in these drug (Cols. C + D + E) |
| 4. Dogs | 0 | 0 | 0 | 0 | 0 |
| 5. Cats | 0 | 0 | 0 | · 0 | 0 |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | 0 |
| 7. Hamsters | 0 | 0 | 0 | 0 | 0 |
| 8. Rabbits | 0 | 0 | 18 | 0 | 18 |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | 0 |
| 10. Sheep | 0 | 0 | 0 | 0 | 0 |
| 11. Pigs | 0 | 0 | 20 | 0 | 20 |
| 12. Other Farm Animals | 0 | 0 | 0 | 0 | 0 |
| 13. Other Animals | | | | | |
| Rats | 314 | 0 | 1200 | 0 | 1200 |
| Mice | 47 | 0 | 143 | 0 | 143 |
| | | | | L | |
| ASSURANCE STATEMENTS | | | | | |
| | | | se of animals, including appro- ion were followed by this resea | riate use of anesthetic, analgesic, and t irch facility. | ranquilizing drugs, prior to, during, |
| 2). Each principal investigator | has considered alternati | ves to painful procedu | ires | | |
| principal investigator and a | pproved by the Instituti | onal Animal Care and | Use Committee (IACUC). A su | ons to the standards and regulations be mmary of all such exceptions is atta | ached to this annual report. In |
| | | | • | e exceptions, as well as the species and adequate veterinary care and to overse | |
| animal care and use. | | | | · | |
| | (Chief E | cecutive Officer | | CH FACILITY OFFICIAL Institutional Official) U S.C. Section 2143). | |
| SIGNATURE OF C.E.O. OR INSTITU | UTIONAL OFFICIAL | | NAME & TITLE OF C.E.O | OR INSTITUTIONAL OFFICIAL (Type o | or Print) DATE SIGNED |
| | | | | | • |
| | | | | | |
| APHIS FORM 7023 (Re (AUG 91) | eplaces VS FORM 18- | 23 (OCT 88), which | is obsolete) | | PART 1 - HEADQUARTERS |

| Recordent to repared by low C result in an order to cease and c | escultation control for desist and to be subject | opertuic ordina to lo to penalties as provid | ene platier souh ad for al Section | 2150 | Secondetse olde 1.2 additional information | G120 DOA AN | at subscribe | |
|---|---|---|---------------------------------------|---|---|---------------------------------------|--|--|
| | ES DEPARTMENT OF A PLANT HEALTH INSPEC | | | TEGISTRATION | 03 | FORM APP OMB NO 0 | 579-0036 | |
| ANNUAL REPOR (TY | T OF RESEAR PE OR PRINT) | CH FACILITY | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) Department of Veterans Affairs Headquarters 810 Vermont Avenue, NW Washington, DC 20420 | | | | |
| 3. REPORTING FACILITY (List all in sheets if necessary.) | ocations where animals | | | | hing, or experimentation, or held for t | hese purposes. Atta | ch additional | |
| | | FAC | | IS (Sites) | | | | |
| (516) VA Mec | lical Center | : | | | | | | |
| Bay Pi | nes, FL 33 | 744 | | | | | | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF | RESEARCH FACILITY | (Attach adiditio | nal sheets if ne | cessary 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, lesting, 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. | anesthetic, | iments, search, lests were nvolving ing pain or | 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 | | | | <u>.</u> | | · · · · · · · · · · · · · · · · · · · | | |
| 6. Guinea Pigs | | | 9 | | | | 9 | |
| 7. Hamsters | | | | | | | | |
| 8. Rabbits | | | | | | | | |
| 9. Non-human Primates | | | | | | | | |
| 10. Sheep | | s. | | | | | | |
| 11. Pigs | | | | | | | | |
| 12. Other Farm Animals | | | | | | | | |
| | | · ···· · | | | | | | |
| 13. Other Animals | ļ | | | | | <u> </u> | | |
| RATS | | 46 | 400 | | | | 446 | |
| ASSURANCE STATEMENTS | | | | | | | | |
| Professionally acceptable st and following actual researc | | | | | ate use of anesthetic, analgesic, and ch facility. | tranquilizing drugs, p | rior to, during, | |
| 2). Each principal investigator l | has considered alternat | ives to paintul procedu | ures. | | | | | |
| principal investigator and a | pproved by the Instituti | onal Animal Care and | Use Committee (| IACUC). A sun | ns to the standards and regulations t nmary of all such exceptions is att exceptions, as well as the species an | lached to this annua | al report. In | |
| The attending veterinarian t animal care and use. | or this research facility | has appropriate autho | ority to ensure the | e provision of a | dequate veterinary care and to overs | ee the adequacy of ot | her aspects of | |
| | (Chief E | | or Legally R | esponsible | CH FACILITY OFFICIAL Institutional Official) USC Section 2143). | | 4 | |
| SIGNATI | 2 | - | | | OR INSTITUTIONAL OFFICIAL (Type | or Print) | DATE SIGNED | |
| | | | | | | | 11/ /00 NOV 4 2001 | |

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|---|---|--|---|---|---|--------------------------------|----------------------|--|--|
| This report is required by law result in an order to cease and | (7 USC 2143) Failure to I desist and to be subject | report according to the tent of te | e regulations can ded for in Section 2150 | | See reverse side for additional information | Interagency Rep 0180-DOA-AN | ort Control No | | |
| UNITED STA | TES DEPARTMENT OF | | 1. REGISTR | | 0. 1. 0. | FORM APP | | | |
| | PLANT REALTH INSPE | CTION SERVICE | 58-V-0 | 03 | # 931 | OMB NO Q | | | |
| | · · | 5 . ¹ | 2. HEADQUA | 2. HEADOUARTERS RESEARCH FACILITY (Name and Address. as registered with USDA, include Zip Code) | | | | | |
| ANNUAL REPO | RT OF RESEAR | | Depar | tmen | toof Veterans Af | fairs Headq | uarters | | |
| | YPE OR PRINT) | | 810 V | 810 Vermont Avenue, NW | | | | | |
| | , | | Washi | ngto | n, DC 20420 | | | | |
| 3. REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used | in actual research, testing, | teaching | y, or experimentation, or held for | these purposes. Atta | ch additional | | |
| | | FAG | CILITY LOCATIONS (Sites) | | | | | | |
| WA Maddaal Canton | (516) | | | | | | | | |
| VA Medical Cente: | | | | | | | | | |
| Bay Pines, Florid REPORT OF ANIMALS USED BY C | | | | | | | | | |
| AL | B. Number of | C Number of | | _ | Number of animals upon which | teaching | | | |
| | animals being | animals upon | D. Number of animals up which experiments, - | on E | experiments, research, surgery (| or tests were | F. | | |
| Animals Covered By The Animal | bred, conditioned, or | which leaching, research, | teaching, research, surgery, or tests were |) | conducted involving accompany to the animals and for which the | e use of appropriate | TOTAL NO. | | |
| Welfare Regulations | held for use in teaching, lesting, | experiments, or | conducted involving | | anesthetic, analgesic, or tranque have adversely affected the pro | ilizing drugs would | OF ANIMALS | | |
| | . <u>.</u> | - 10013 #616 | - accompanying pain o | | interpretation of the teaching, r | esearch, | · · · - | | |
| | | | | le | experiments, surgery, or tests the procedures producing pain | or distress in these | (Cols. C + D + E) | | |
| | | | | Ċ | animals and the reasons such of must be attached to this report) | | | | |
| 4. Dogs | | | | + | | | | | |
| 5. Cats | 1 | I | | -+ | | | | | |
| 6. Guinea Pigs | | | | | | | | | |
| 7. Hamsters | | | | | | | | | |
| 8. Rabbits | ļ | | | | | | ļ | | |
| 9. Non-human Primates | | | | | | | <u> </u> | | |
| 10. Sheep | | | | | | | | | |
| 11. Pigs | | | | + | | | | | |
| 12. Other Farm Animals | + | | | | | | | | |
| 13. Other Animals | | | | + | | | | | |
| RATS | | 35 | 352 | | | | 387 | | |
| | | | | | | | | | |
| · · | | ĺ | λ | | | | | | |
| ASSURANCE STATEMENTS | | | | | | | | | |
| 1). Professionally acceptable s and following actual resear | | | | | use of anesthetic, analgesic, and facility. | tranquilizing drugs, p | nor 10, during, | | |
| 2). Each principal investigator | | | | | | | | | |
| principal investigator and a | approved by the Institut | ional Animal Care and | Use Committee (IACUC). A | summa | to the standards and regulations to any of all such exceptions is att reptions, as well as the species an | lached to this annua | al report. In | | |
| 4). The attending veterinarian animal care and use. | for this research facility | has appropriate autho | rity to ensure the provision | i of adec | quate veterinary care and to overs | ee the adequacy of or | her aspects of | | |
| | | | | | FACILITY OFFICIAL | | | | |
| | (Chief E | xecutive Officer | or Legally Respons | ble In | stitutional Official) | | | | |
| | | | | | | | DATE SIGNED | | |
| | | | | | | | | | |
| APHIS FORM 7023 (F | leplaces VS FORM 18 | -23 (OCT 88), which | is ubsolète) | | | · | | | |
| (AUG 91) | | : | - | | | PART 2 - SEC | TOR OFFICE | | |

| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | 1. REGISTRATION | | PROVED 0579-0036 | |
|--|---|--|--|---|---|---|
| | | | 2. HEADOUARTEF include Zip Cod DEPARTME R & D CO 103 SOUT | RS RESEARCH FACILITY (Name and Address, as register | | |
| 3. REPORTING FACILITY (List all I sheets if necessary) | ocations where animals | | | | hing, or experimentation, or held for these purposes. At | tach additional |
| | VAMC | FAC | CILITY LOCA | TIONS (Sites) | | |
| 13000 N. BRUCE | | VD | | | | |
| TAMPA, FL. 336 | 12 | | | | | |
| | | | | | | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF B. Number of | | 1 | | Cessary or use APHIS FORM 7023A.) E. Number of animals upon which teaching, | |
| Animals Covered By The Animal Welfare Regulations | 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 distres and for anesth | r of animals upon experiments, gr, research, r, or tests were ted involving panying pain or s to the animals which appropriate etic, anatgesic, or Mizing drugs were | 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, experimente, surgery, or tests. (An explanation of | TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | 14 | | 14 |
| 5. Cats | 2 | | | 6 | | 6 |
| 6. Guinea Pigs | | | | | | |
| 7. Hamsters | | | | | | |
| 8. Rabbits | | | | <u>4</u> · | | |
| 9. Non-human Primates | | | ļ | | | |
| 10. Sheep | | | L | | | |
| 11. Pigs | | | | | | |
| 12. Other Farm Animals | | | | | | |
| 13. Other Animals | | | | | | |
| RATS | 129 | | 35 | 50 | | 3550 |
| MICE | 1327 | | 15 | 595 | | 1595 |
| ASSURANCE STATEMENTS | | | <u> </u> | | | |
| | | ages tractment and | | 1 | iate use of anesthetic, analgesic, and tranquilizing drugs | |

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 HEADQUARTES 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) | | | | | | |
|---|--|-------------|--|--|--|--|
| | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED | | | | |
| | | 10-27.00 | | | | |

| Bis report strequiestby Six or result is an order to cease addi- | 2. 2.42 (L. actor reast and tailor sobject | opa – Linna bila ostra to perculturo consolatist | e në _{për} ato e se suta e daharata se e filotë a 150 | See towerse states of additional intermeteur | 0330-004-254 0330-004-254 | a sata tra | |
|---|---|---|--|---|--|--|--|
| UNITED STAT | ES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE | 1. REGISTRATION 58-V-00 2. HEADQUARTER include Zip Cod | 1. REGISTRATION NO. 58-V-005 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA. include Zip Code) | | | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | 810 Ve | Dept. of Veterans Affairs Headquarters 810 Vermont Avenue, NW Washington, DC 20420 | | | |
| 3. REPORTING FACILITY (List all le sheets if necessary.) | ocations where animals | | | hing, or experimentation, or held for th | iese purposes. Attac | h additional | |
| | | FAC | CILITY LOCATIONS (Sites) | ······ | | | |
| 546 VA Medical (| Center | | | | | | |
| 1201 NW 16th | n Street. Mi | ami. FL 331 | 25 | | | | |
| | | | | cessary 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 the experiments, research, surgery or conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the procinterpretation of the teaching, reexperiments, surgery, or tests. (If the procedures producing pain of animals and the reasons such (If must be attached to this report). | r tests were ing pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these | F. TOTAL NO OF ANIMALS (Cols. C + D + E) | |
| 4. Dogs | 12 | 0 | 2 | 0 | | 2 | |
| 5. Cats | 0 | 0 | 0 | 0 | | 0 | |
| 6. Guinea Pigs | С | 0 | 0 | 0 | | 0 | |
| 7. Hamsters | 0 | 0 | 0 | 0 | | 0 | |
| 8. Rabbits | 0 | С | 0 | 0 | | 0 | |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | | C | |
| 10. Sheep | 0 | 0 | 0 | 0 | | 0 | |
| 11. Pigs | 0 | 0 | С | 0 | | 0 | |
| 12. Other Farm Animals | 0 | 0 | 0 | 0 | 4-1949 - 1-14 - 17 - 1940 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - | 0 | |
| 13. Other Animals | | | | | | | |
| Mice | 483 | 1231 | 378 | 0 | | 1609 | |
| Rats | 41 | 263 | 36 | 0 | | 299 | |
| Frogs | 36 | 108 | 0 | 0 | | 108 | |
| ASSURANCE STATEMENTS | | | | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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.

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DATE SIGNED

| The preparation of point 1 by some a result of an order to reader and | Failure to Failure to resist and to be subject | report according on the to penalties as provid | e aggitations. Ied for in Set ti | ab on 2150 | ancio se caracteria ad attenut advantateri | 615036 A AN | ut o soute in ty |
|--|---|---|--|--|---|---|---|
| | ES DEPARTMENT OF A PLANT HEALTH INSPEC | | ſ | | NO. 11-007 | FORM APP OMB NO 0 | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address. as registered with USDA include Zip Code) DEPARTMENT OF VETERANS AFFAIRS HEADQUARTERS 810 VERMONT AVENUE WASHINGTON, D.C. 20520 | | | |
| 3. REPORTING FACILITY (List all h sheets if necessary.) | ocations where animals | were housed or used i | in actual resea | rch, testing, teach | hing, or experimentation, or held for the | se purposes. Atta | ch additional |
| | | FAC | | ONS (Siles) | | | |
| NORTH FLORIDA SOUTH | H GEORGIA VE (573) | | <u> </u> | | | | |
| 1601 S.W. Archer Ro GAINESVILLE, FLORII | DA 32608-11 | | | | <u></u> | | |
| REPORT OF ANIMALS USED BY O | | | f (Attach adidit | ional sheets if ne | والمتحد المتحد المراجع المتحد المتحد المتحد المتحد المتحد المحد المحد المحد المحد المحد المحد المحد المحد المح | | |
| 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 teal experiments, research, surgery or conducted involving accompanylin to the animals and for which the u anesthetic, analgesic, or tranquiliz have adversely affected the proce- interpretation of the teaching, rese experiments, surgery, or tests. (Ar the procedures producing pain or animals and the reasons such dru must be attached to this report). | tests were g pain or distress se of appropriate ing drugs would dures, results, or parch, o explanation of distress in these | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | 0 | 0 | | 0 | 0 | | 0 |
| 5. Cats | 7 | 0 | | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 0 | | 0 | 0 | | 0 |
| 7. Hamsters | 0 | 0 | | 0 | 0 | | 0 |
| 8. Rabbits | 14 | 0 | | 234 | 0 | | 234 |
| 9. Non-human Primates | 0 | 0 | | 0 | 0 | | 0 |
| 10. Sheep | 0 | 0 | | 0 | 0 | | 0 |
| 11. Pigs | 0 | 0 | | 0 | 0 | <u></u> | 0 |
| 12. Other Farm Animals | 0 | 0 | | 0 | 0 | | 0 |
| 13. Other Animals RATS | 78 | 332 | | 856 | 0 | | 1188 |
| MICE | 313 | 919 | | 1112 | 0 | | 2031 |
| | | | | | | | |
| | | | | | | | |
| ASSURANCE STATEMENTS | | | | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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.

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| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Lecrtify that the above is true, correct, and complete (7 USC Section 2143). | |
|--|-------------|
| | DATE SIGNED |
| | 11/14/00 |

| result in an order to cease and UNITED STA | TES DEPARTMENT OF A | | 1 REGISTRATION | addtional sformation | 0130 D.A 41. | |
|---|---|---|---|--|---|------|
| ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | | FORM APPROVED OMB NO: 0579-0036 | |
| | | | 2. HEADQUARTER include Zip Coo Departs 810 Ve: | 61-V-002 2. HEADQUARTERS RESEARCH FACILITY (Name and Address. as registered with USDA, include Zip Code) Department of Veterans Affairs 810 Vermont Avenue, N.W. Washington DC 20420 | | |
| REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used (| n actual research, testing, teac | hing, or experimentation, or held for th | ese purposes. Attach additiona | l |
| | | FAC | CILITY LOCATIONS (Sites) | | | |
| 603)VA Medical C 800 Zorn Ave | | · | | | | |
| Louisville K | | 9 | | | | |
| | | | Altach adiditional sheets if ne | cessary 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 anesthealtc, analgesic, or tranquilizing drugs were used | E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquili- have adversely affected the proce- interpretation of the teaching, res- experiments, surgery, or tests. (A the procedures producing pain or animals and the reasons such dri- must be attached to this report). | tests were ng pain or distress use of appropriate zing drugs would edures, results, or search, in explanation of r distress in these | MALS |
| 4. Dogs | | | | | | |
| 5. Cats | | | | | | |
| 6. Guinea Pigs | | | | , | | |
| 7. Hamsters | | | ···· | | | |
| 8. Rabbits | | | | | | |
| 9. Non-human Primates | | | | • | | |
| 10. Sheep | | | | | | |
| 11. Pigs | | | | · · · · · · · · · · · · · · · · · · · | | |
| 12. Other Farm Animals | | | | | | |
| 13. Other Animals | | | | | | |
| Rats | 0 | 0 | 1,187 | 0 | 1,18 | 87 |
| Mice | 0 | 0 | 718 | 0 | 71 | 18 |
| | | | | | | _ |
| | | | se of animals, including approvi | ate use of anesthetic, analgesic, and tr ch facility. | anquilizing drugs, prior to, durir | ng, |
| 2). Each principal investigator | | | | on raonny. | | |
| principal investigator and a | approved by the Institution | onal Animal Care and | Use Committee (IACUC). A sun | ns to the standards and regulations be nmary of all such exceptions is atta exceptions, as well as the species and | ched to this annual report. In | |

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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Executify that the above | | | | | |
|--|-----|-------------|--|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | nt) | DATE SIGNED | | | |
| | | 10/23/00 | | | |

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| frasseparting opportunity on with an order to dease and | | | | | aer ⊂izerse wite tra a0ditsitiat information | 0180 DOA AN | |
|---|---|---|---|--|---|--|---|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | 1. REGISTRATION NO. FORM APPRIL 61-V-003 ОМВ NO 0579 | | | |
| | | | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address. as registered with USDA, include Zip Code) Department of Veterans Affairs 810 Vermont Avenue NW Washington, DC 20420 | | | |
| 3. REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used i | n actual res | earch, testing, teac | hing, or experimentation, or held for t | hese purposes. Atta | ich additional |
| | | FAC | CILITY LOCA | TIONS (Sites) | ······································ | | |
| 596 VA Medical Co 2250 Leestown | | | | | | | |
| Lexington, K | | 3 | | | | | |
| | | F RESEARCH FACILITY | (Attach adi | ditional sheets if ne | ecessary 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. | which e teachin surgery conduc accomp distress and for anesthe | r of animals upon experiments, g, research, i, or tests were ted involving panying pain or s to the animals which appropriate slic, analgesic, or lizing drugs were | E. Number of animals upon which the experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquit have adversely affected the prociniterpretation of the teaching, reexperiments, surgery, or tests. (the procedures producing pain animals and the reasons such dimust be attached to this report) | or tests were ring pain or distress e use of appropriate litzing drugs would cedures, results, or esearch, (An explanation of or distress in these trugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cats | | | | | | | |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | | | | | | |
| 8. Rabbits | | | | 2 | | | 2 |
| 9. Non-human Primates | | | | | | ······································ | |
| 10. Sheep | | | | | | | |
| 11. Pigs | | | | | | | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | | | | |
| Gerbils | | | | 170 | | | 170 |
| lice | 2761 | | 5. | 523 | | | 8284 |
| Rats | | | | 386 | | | 386 |
| ASSURANCE STATEMENTS | | | | | | · · · · · · · · · · · · · · · · · · · | |
| and following actual resear 2). Each principal investigator 3). This facility is adhering to t principal investigator and a addition to identifying the | ch, teaching, testing, su has considered alternat the standards and regula approved by the Instituti IACUC-approved except | rgery, or experimentat ives to painful procedu ations under the Act, at onal Animat Care and I ions, this summary incl | ion were foll ires. nd it has req Use Commit udes a brief | owed by this resear uired that exceptio tee (IACUC). A sun explanation of the | ins to the standards and regulations b nmary of all such exceptions is att exceptions, as well as the species and | e specified and expla ached to this annu d number of animals | ained by the al report. In affected. |
| The attending veterinarian animal care and use. | | ····· | | | idequate veterinary care and to oversi | e the adequacy of o | ther aspects of |
| | (Chief E | | or Legall | y Responsible | CH FACILITY OFFICIAL Institutional Official) U.S.C. Section 2143). | | |
| SIGNATURE OF C.EO. OR INSTIT | UTIONAL OFFICIAL | | NAME | & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (Type of | or Print) | DATE SIGNED |

10

| This report is required by law (7) result in an order to cease and d | USC 2143) Failure to r esist and to be subject | eport according to the regulation to penalties as provided for in Se | s can ction 2150. | See reverse side for additional information. | Interagency Repo 0180-DOA-AN | |
|--|--|---|---|---|--|---|
| UNITED STATE | S DEPARTMENT OF A | GRICULTURE | 1. REGISTRATION | NO. | FORM APPE OMB NO 05 | |
| | PE OR PRINT) | | Of Of Of Of Of | -F-0001, Cust Id 965 AK RIDGE NATIONAL LABORATO D. BOX 2008 AK RIDGE, TN 37831 | | nih USDA. |
| 3. REPORTING FACILITY (List all lo sheets if necessary) | ocations where animals | were housed or used in actual res | earch, testing, teachi | ing, or experimentation, or held for the | hese purposes. Attac | h additional |
| | | FACILITY LOCA | TIONS (Siles) | | | <u></u> |
| Life Sciences Divi | sion - Bldg | 4500-S, s. 9210, 4501 | Instrumen | tation & Controls | Satell Div. Bldg. | lite Facili 3500 |
| Environmental Scie | nces Div. B | 1dgs.1504 & 1505 | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | RESEARCH FACILITY (Attach adi | | | | |
| 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. | animals upon which e which leaching, teaching research, surgery experiments, or conduc lests were accom conducted distress involving no and to pain, distress, or anesth | r of animals upon experiments, ing, research, , or lests were cled involving panying pain or s to the animals which appropriate etic, analgesic, or litzing drugs were | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report). | or tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or search, 'An explanation of or distress in these | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs 5. Cats | | | | | | |
| 6. Guinea Pigs | | | | | | |
| 7. Hamsters | | | | | | |
| 8. Rabbits | | | | | | |
| 9. Non-human Primates | | | | | | |
| 10. Sheep | | | | | | |
| 12. Other Farm Animals | | | ·. | · · · · | | |
| 13. Other Animals | | | | | | |
| * No Regulated Sp | ecies | | | | | |
| | | | | | | |
| ASSURANCE STATEMENTS | 1 | <u> </u> | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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.

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CERTIFICATION BY HEADQUARTES 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)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

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

t

| This report is required by law (7) result in an order to cease and do | USC 2143) Failure to r esist and to be subject | eport according to the to penalties as provide | e regulations car ed for in Section | 2150 | See reverse side for additional information. | Interagency Repo 0180-DOA-AN | |
|---|--|---|--|---|---|--|---|
| UNITED STAT | S DEPARTMENT OF AC | GRICULTURE | | REGISTRATION | NO. | FORM APPI OMB NO 05 | |
| ANNUAL REPOR | T OF RESEAR | CH FACILITY | 1-3 8 | AL | 3-F-0005, Cust ld 964 -VIN C. YORK MEDICAL CENTER -00 LEBANON RD. | | vith USDA |
| , , | PE OR PRINT) | | | M | URFREESBORO, TN 37129 | the Durposes Atlan | h additional |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | cations where animals | | | | ing, or experimentation, or held for the | | |
| | | FAC | LITY LOCATIO | NS (Siles) | . / | | |
| Non | le | | | / | None | <u></u> | <u></u> |
| | | | | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | RESEARCH FACILITY | (Attach adiditio | nal sheets if neo | cessary or use APHIS FORM 7023A.) | | |
| A Animals Covered By The Animal Wellare 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. | and for whit anesthetic, | riments, esearch, tests were involving | E. Number of animals upon which leavertiments, research, surgery or conducted involving accompanyin to the animals and for which the uponesthetic, analgesic, or tranquith have adversely attected the proceinterpretation of the teaching, resexperiments, surgery, or tests (A), the procedures producing pain or animals and the reasons such drumust be attached to this report). | tests were ig pain or distress ise of appropriate zing drugs would dures, results, or earch, n explanation of r distress in these | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | 0 | 0 | 0 | | 0 | | Ö |
| 5. Cats | 0 | 0 | | | Ò | . <u></u> | 0 |
| 6. Guinea Pigs | 0 | 0 | | <u>></u> | 0 | | 0 |
| 7. Hamsters | C | 0 | C | S | 0 | | 0 |
| 8. Rabbits | 0 | 0 | C | 0 | 0 | | 0 |
| 9. Non-human Primates | 0 | 0 | < | \supset | 0 | | 0 |
| 10. Sheep | 0 | 0 | <hr/> | \mathbf{O} | 0 | | 0 |
| 11. Piqs | C | 0 | | > | 0 | | 0 |
| 12. Other Farm Animals | 0 | 0 | < | <u>D</u> | 0 | | 0 |
| | | | | _ | 0 | | 2 |
| 13. Other Animals | 0 | 0 | C | 0 | | <u></u> | |
| | | | | | | | |
| | | | | | | | 0 |
| ASSURANCE STATEMENTS | | | L | | | | |

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

DATE SIGNED 116/2010

| This report is required by law (7 result in an order to cease and | | | | See reverse side for additional information | Interagency Report Con College 0180-DOA-AN |
|---|---|---|--|---|--|
| | TES DEPARTMENT OF A PLANT HEALTH INSPEC | | | -0003 .213 | FORM APPROVED OMB NO 0579-0036 |
| ANNUAL REPOF | RT OF RESEAR (PE OR PRINT) | CH FACILITY | 2. HEADQUARTE Include Zip Cod OAK R PiOIK OAK R | As RESEARCH FACILITY (Name and AC 10) $10 \subseteq e$ Associated UN $10 \subseteq e$ Associated UN $10 \subseteq e$ TN 1 37831 | idress, as registered with USDA. I iversities |
| 3. REPORTING FACILITY (List all I sheets if necessary) | ocations where animals | were housed or used | | hing, or experimentation, or held for the | |
| | | FA | CILITY LOCATIONS (Siles) | | |
| No Facilities | 5 Using | ANIMALS | i | | |
| | V | | | | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF | RESEARCH FACILITY | l f (Attach adiditional sheets if ne | cessary or use APHIS FORM 7023A) | |
| A. Animals Covered By The Animal Welfare Regulations | B Number of anumals 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 te experiments, research, surgery or conducted involving accompanyin to the animals and for which the t anesthetic, analgesic, or tranquili, have adversely affected the proce interpretation of the teaching, res experiments, surgery, or tests (A the procedures producing pain or animals and the reasons such dru- must be attached to this report). | tests were ig pain or distress ise of appropriate TOTAL NO OF ANIMALS OF ANIMALS OF ANIMALS OF Cols. C + D + E |
| 4. Dogs | 0 | 0 | 0 | 0 | 0 |
| 5. Cats | 0 | 0 | 0 | 0 | 0 |
| 6. Guinea Pigs | . 0 | 0 | 0 | 0 | 0 |
| 7. Hamsters | 0 | 0 | 0 | Ø | 0 |
| 8. Rabbits | 0 | 0 | 0 | 0 | 0 |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | 0 |
| 10. Sheep | 0 | 0 | 0 | 0 | Ø |
| 11. Pigs | 0 | 0 | 0 | 0 | 0 |
| 12. Other Farm Animals | 0 | 0 | 0 | Ø | 0 |
| 13. Other Animals | 0 | 0 | 0 | Ø | 0 |
| | | | | | |
| ASSURANCE STATEMENTS | andards onversion the | care treatment and | es at animale including among | ate use of anesthetic, analgesic, and tra | ana an |

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 animats affected.

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| (Chief Executive Officer or 1 | UARTES RESEARCH FACILITY OFFICIAL Legally Responsible Institutional Official) a, correct, and complete (7 USC Section 2143) | |
|---|---|-------------|
| SIGNATURE OF C F O, OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type of Print) | DATE SIGNED |
| | | 12/13/2000 |

۰.

| This report is required by law (7 USC 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. | | | | | See reverse side for additional information. | Interagency Rep 0180-DOA-AN | ort Control No |
|--|--|---|---|--|---|--|---|
| | ES DEPARTMENT OF A | | 1. REGISTRATION | NO. | FORM APP OMB NO 0 | | |
| OCT 1 1 2000 ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | 2. HEADQUARTER include Zip Cod | 63-R-0015, Cust ld 855 APPLIED MEDICAL RESEARCH 308 15TH AVE. NORTH NASHVILLE, TN 37203 | I, INC. | uspa j |
| 3. REPORTING FACILITY (List all I sheets if necessary) | ocations where animals | were housed or used i | in actual rese | earch, testing, teac | hing, or experimentation, or held for t | hese purposes. Atta | ch additional |
| | | FAC | CILITY LOCA | TIONS (Siles) | | | |
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| <u></u> | | | | | | ······································ | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF | RESEARCH FACILITY | l (Attach adm | litional sheets if ne | cessary 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. | which e teaching surgery conduct accomp distress and for anesthe | of animals upon xperiments, g, research, , or tests were led involving aanying pain or ; to the animals which appropriate tic, analgesic, or izing drugs were | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report). | or tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or isearch, An explanation of or distress in these rugs were not used | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cats | | | | | ······ | | |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | | | | | | |
| 8. Rabbits | | | | | | | 0 |
| 9. Non-human Primates | | | | | | | |
| 10. Sheep | | | | | | | |
| 11. Pigs | | | | | | | |
| 12. Other Farm Animals | | | | | | | |
| | | | | | | | |
| 13. Other Animals | | | | | | | |
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| ASSURANCE STATEMENTS | | | | | | | |

1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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.

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CERTIFICATION BY ILEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) t certify that the above is true, correct, and complete (7 USC Section 2143)

DATE SIGNED

10-4-00

| DEC-20-2001 : This report is required by law | (7 USC 2143). Failure to | USDA APHIS report according to the re | guistions can | | See reverse side for | 716 5696 Interagency R | P.05/09 Seport Control No |
|--|---|--|--|--|---|---------------------------|--|
| result in an order to cease an | | | for in Section 21 | | additional information. | 0180-DOA-AN | 1 |
| | TATES DEPARTMENT OF ID PLANT HEALTH INSPE | | | 1. REGISTRAT 63-R-0015 | | | APPROVED). 0579-0036 |
| ANNUAL REP | (TYPE OR PRIN | 2. HEADQUARTERS RESEARCH FACILITY (Name and Addross, as registered with USDA, Include Zip Code) APPLIED MEDICAL RESEARCH, INC. 308 15TH AVE, NORTH NASHVILLE, TN 37203 (615) 327-0676 | | | | | |
| shoets if necessary.) | | | | | | | |
| See Attached Listing | | - | ACELITY LOCA | : KJN9(\$#8\$) | | | |
| | | | | al about Rass | LSBRY OF USB APHIS FORM 7023A) | | |
| REPORT OF ANNALS USED BY A. | B. Number of | C. Number of | | nal sheets if noce: Fanimals upon | | ectina. | F. |
| Animelis Covered By The Animel Welfare Regulations | animais being bred, conditioned, or held for use in tasching, testing, exportments, research, or surgery but not yet used for such purposes. | entimels upon which teaching, research, experiments, or tosts wore conducted involving no pain, distross, or use of pain- releving drugs. | which exp reaching, surgery, o conducted sccompan distress to and for wh enesthetic | eriments, research, r tests were | experiments, research, surgery or tests were conducted involving eccompanying pain or distret to the animals and for which the use of approprie enesthetic,enelgesic, or tranquilizing drugs would have adversely affected the procedures, results, of interpretation of the teaching, research. | | TOTAL NO. OF ANIMALS (COB. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cata | | | | | | | |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | " IN A | cric |) E- | - No | | |
| 5. Rabbits | | | | | | | |
| 9. Non-Human Primates | | ACTIU | 1T; | , n | ULING T | HE | |
| 10. Sheep | | | (| | | | |
| 11. Pigs | | PERLO | Ο. | | | | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | | | | | | |
| <u></u> | | | | | | | |
| | | | | | | | |
| ASSURANCE STATEMENTS | l | | | | | | |

Professionally acceptable standards governing the care, treatment, and use of animats, 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.

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CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complate (7 U.S.C. Section 2143) SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL INAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED 2-20-01

1 - HEADQUARTERS

DEC-20-2001 15:06

USDA APHIS AC

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number: Customer Number: Facility: 63-R-0015 855 APPLIED MEDICAL RESEARCH, INC. 308 15TH AVE. NORTH NASHVILLE, TN 37203 (615) 327-0676

APPLIED MEDICAL RESEARCH INC. 1114 CLINTON ST. NASHVILLE, TN 37203

| This repeat is bloosed by law off registion as order to cease and di | uffectual for an and the second and the second and the second and the second appendix | contract riting to be to penalties as provide | e la quitatione ed for the See | i - di 1 tom 2150 | mercez az ndele adminiatiolomates | astericija – "Roce. Graa, Liko 404 k | at Selfast Mas |
|--|---|---|---|--|--|---|----------------|
| UNITED STATE | S DEPARTMENT OF A | GRICULTURE | 1 REGISTRATION NO. FGRM ≏PPROVED 63-V-003 GMB NO: 0579-0036 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA) | | | | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | Include Zip Code) Department of Veterans Affairs Central Office 810 Vermont Avenue NW Washington, D.C. 20420 | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary) | cations where animals | were housed or used i | n actual res | earch, testing, teac | hing, or experimentation, or held for th | hese purposes. Attac | ch additional |
| | | FAC | LOCA | TIONS (Sites) | | | |
| 614 VA Medical (| | | | | | | |
| <u>1030 Jeffers</u> Memphis, TN | | | | | | | <u></u> |
| REPORT OF ANIMALS USED BY OF | UNDER CONTROL OF | RESEARCH FACILITY | (Attach adi | t ditional sheets if ne | cessary or use APHIS FORM 7023A.) | | |
| A. B. Number of animals being bred, bred, conducted groups of teaching, experiments, or teaching, experiments, or surgery, but not surgery but | | r of animals upon experiments, g, research, r, or tests were ted involving panying pain or s to the animals r which appropriate etic, analgesic, or ilizing drugs were | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (the procedures producing pain animals and the reasons such d must be attached to this report). | r tests were ing pain or distress use of appropriate keing drugs would cedures, results, or esearch, An explanation of or distress in these | F. TOTAL NO OF ANIMALS (Cols. C + D + E) | | |
| 4. Dogs | 0 | 0 | 4324 | 0 | 0 | | 0 |
| 5. Cats | 0 | 0 | | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 8 | | 0 | 0 | | 8 |
| 7. Hamsters | 0 | 0 | | 0 | 0 | | 0 |
| 8. Rabbits | 0 | 0 | | 24 | 0 | | 24 |
| 9. Non-human Primates | 0 | 0 | | 0 | 0 | . <u> </u> | 0 |
| 10. Sheep | 0 | 0 | | 0 | 0 | · · · · · · · · · · · · · · · · · · · | 0 |
| 11. Pigs | 0 | 0 | | 0 | 0 | | 0 |
| 12. Other Farm Animals | 0 | 0 | | 0 | 0 | | 0 |
| 13. Other Animals | 0 | 0 | | 0 | 0 | | 0 |
| 14. Rats | 0 | 0 | 1 | 14 | 0 | | 114 |
| 15. Mice | 0 | 724 | 7 | 67 | 0 | | 1491 |
| ASSURANCE STATEMENTS | | | | | l | | |
| ASSUNANCE STATEMENTS | | | | | | | |

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|--|--|-------------|--|--|--|--|--|
| IURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED | | | | | |

APHIS FORM 7023 (AUG 91)

SIGNA

| This reg | is required by law (7 USC 2143). Failure to report according to the regulations | See attached form for additional information | Interagency Report Control No: | | | | | | |
|---|---|---|------------------------------------|--|--|--|--|--|--|
| | UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 64-F-0006 CUSTOMER NUMBER: 969 | FORM APPROVED OMB NO. 0579-0036 | | | | | | |
| | ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Usda, Ars, Mid-South Area Mid South Area Po Box 225 Stoneville, MS 38776 Telephone: x(999): 999: 999: (334) 887-3741 | | | | | | | |
| 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) | | | | | | | | | |
| Aquatic Animal Health Res. Unit FACILITY LOCATIONS (Sites) - See Atached Listing 990 Wire Road (P.O. Box 952) Auburn, AL 36830 (36831-0952) | | | | | | | | | |

| 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 ye | 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, a | 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 | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
|---|---|--|---|--|--|
| 4. Dogs | | | | | ! |
| 5. Cats | | | | | |
| 6. Guinea Pigs | | | | | |
| 7. Hamsters | | | | | 1 |
| 8. Rabbits | | | | | |
| 9. Non-human Primate | | · · · · · · · · · · · · · · · · · · · | | | |
| 10. Sheep | | | | | |
| 11. Pigs | | | | | |
| 12. Other Farm Animals | | | | | |
| Goats | 6 | | | | 6 |
| 13. Other Animals | | | | | |
| Catfish | 10,000 | 20,000 | 30,000 | | 50,000 |
| Tilapia | 3,000 | 4,000 | 2,000 | | 6,000 |
| Striped Bass | 1,000 | 2,000 | 1,500 | | 3,500 |

ASSURANCE STATEMENTS

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| CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) | | | | | | | |
|---|--|-------------|--|--|--|--|--|
| SIGNATURE OF & E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print | DATE SIGNED | | | | | |
| | | 12/6/00 | | | | | |
| APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete. | | | | | | | |

M 7023 (Replaces VS FORM 18-23 (0

(AUG 91)

| This report is required by law (result in in order to cease and | 7 USC 2143) Failure to desist and to be subject | report according to th t to penalties as provid | e regulations led for in Sect | can ion 2150. | See reverse side for additional information. | Interagency Rep 0180-DOA-AN | ort Control No | | | |
|--|--|--|---|---|--|---|--|--|--|--|
| UNITED STAT | TES DEPARTMENT OF A PLANT HEALTH INSPEC | 1. REGISTRATION NO. FORM APPROVED OMB NO 057940036 | | | | | | | | |
| · | کې د | | | 2. HEADQUARTER include Zip Cod | | | JSDA | | | |
| ANNUAL REPOR | RT OF RESEAR (PE OR PRINT) | CH FACILITY | | | UNIVERSITY OF ALABAMA @ B UAB STATION VH B10 BIRMINGHAM, AL 35294 | BIRMINGHAM | | | | |
| 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) | | | | | | | | | | |
| | | FAC | | IONS (Siles) | | | | | | |
| See attached. | | | | | | | | | | |
| | | | | | | ······ | | | | |
| REPORT OF ANIMALS USED BY O | R UNDER CONTROL OF | RESEARCH FACILITY | IAllach autur | tional sheets if nor | cessary or use APHIS FORM 7023A) | | | | | |
| A | B. Number of animals being | C Number of | | of animals upon | E. Number of animals upon which In | eaching, | E. | | | |
| Animals Covered By The Animal Welfare Regulations | bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | which exp teaching, surgery, i conducte accompa distress t and for w anestheti | periments, research, or tests were d involving nying pain or o the animals rhich appropriate c, analgesic, or ring drugs were | experiments, research, surgery on conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc interpretation of the teaching, re- experiments, surgery, or tests. (/ the procedures producing pain of animals and the reasons such dr must be attached to this report). | ng pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these | TOTAL NO OF ANIMALS (Cols. C + D + E) | | | |
| 4. Dogs | 0 | 0 | | 6 | 0 | | 66 | | | |
| 5. Cats | 3 | 0 | · · · · · · · · · · · · · · · · · · · | 9 | 0 | | 9 | | | |
| 6. Guinea Pigs | 124 | 248 | 8 | 7 | 0 | | 335 | | | |
| 7. Hamsters | 0 | 0 | 7 | 9 | 0 | | 79 | | | |
| 8. Rabbits | 54 | 454 | 73 | 5 | 0 | | 1,189 | | | |
| 9. Non-human Primates | 172 | 0 | 4 | 2 | 0 | | 42 | | | |
| 10. Sheep | 8 | 0 | 10 | 7 | 0 | | 107 | | | |
| 11. Pigs | 5 | 0 | 27 | 7 | 0 | | 277 | | | |
| 12. Other Farm Animals | | | | | | | | | | |
| 13. Treeshrews | 61 | 106 | | 0 | 0 | | 106 | | | |
| 14. Lemmings | 132 | 50 | 7 | 7 | 0 | | 127 | | | |
| 15. Chipmunks | 3 | 3 | | 0 | 0 | | 3 | | | |
| 16. Ferrets | 0 | 0 | 1. | 5 | 0 | | 15 | | | |
| 17. Squirrels Assurance statements | 5 | 0 | | | 0 | | 1 | | | |
| | | | | | | | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143)

DATE SIGNED

11/27/00

IACUC Approved Exceptions to USDA Regulations or Standards (2000)

1. Deprivation of food or water (i.e., inadequate nutrition and/or feeding less than once a day and/or watering less than twice a day for an hour each time).

Thirteen (13) non-human primates were on studies requiring water restriction. Water and juice were available during the test period each day. Animals were closely monitored including regular weighing. Restriction periods were limited to a few days. At least two days each week animals received unlimited access to water.

2. Maintaining animals at temperatures and/or humidities outside the ranges specified by the standards.

N/A

3. Not cleaning and/or sanitizing at required frequencies.

N/A

4. Not providing diurnal lighting as required.

Light cycles in lemming housing areas are designed to mimic natural environmental conditions. Animals receive short periods of light or dark depending on the season being studied. Currently the rooms are 8 hours light/16 hour dark, 22 hours light/2 hours dark, or 16 hours light/8 hours dark.

A few rabbits are housed in 24-48 hours of total darkness in order to study retinal changes. Adequate daily care is provided with the caregiver wearing night vision goggles.

5. Not meeting space requirements (including innovative enclosures).

N/A

6. Exceptions from the exercise plan for dogs or exceptions from the psychological wellbeing plan for primates.

In all cases the exceptions to 9CFR3.8 were due to a need to restrict the animal's activity post-operatively as recommended by the veterinarian. Exercise restriction lasted for periods of only 1-2 days.

All but two non-human primates were housed individually during the 1999-00 reporting period because of aggressive behavior, need to restrict activity post-operatively, or need to minimize spread of infectious agents. Individually housed animals received environmental enhancement through food treats, access to puzzles and/or toys, interaction with caretakers, and the ability to see other animals of their species.

| DEC-16-2003 15:49 USDA APHIS AC This required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cases and desist and to be subject to penalties as provided for in Section 21! | 919 716 5696 P.02/02 See attached form for Interagency Report Control National Information. |
|--|---|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 64-R-0101 FORM APPROVED CUSTOMER NUMBER: 807 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Structural Research Center 120 Novatan Rd. Mobile, AL 36608 Telephone: (251) -649-9740 |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, test | ing, or experimentation, or held for these purposes. Attach additional sheets if necessary) |

FACILITY LOCATIONS (6ites) - See Atached Listing

| A | B. Number of enimel | C. Number of | D. Number of animals upon | E. Number of animals upon which teaching, experiments, | F. |
|---|---|---|---|--|--|
| Animala Covered By The Animal Welfare Regulations | being bred, constituend, or heid for use in teaching, teeting, experiments, research, or surgery bui not ye used for such purposes. | animala upon which teaching, research, experiments, or tests were conducted involving no pain, distreas, or use or pain-relieving drugs. | which experiments, teaching, reacerch, surgery, or tests were conducted involving accompanying pain or diatress to the animals an for which appropriate enesthetic, analgesic, or tranguilizing drugs were used. | research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whi the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have edversely 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 reaso such drugs were not used must be stached to this report | TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | | | | | |
| 5. Cats | | | | | |
| 5. Guines Pigs | | | | | |
| 7. Hamsters | | | | | |
| 8. Rabbits | | | | | |
| 9. Non-human Primates | | | | | |
| 10. Sheep | | | | | |
| 11. Pige | | | | | |
| 12. Other Farm Animals | | | | | |
| 13. Other Animals | | | | | |
| | | | | | |
| NO REGUL | ATED SPECIES | WERE USED. | | | |
| ASSURANCE STATEMENT | L | | | | وبيبين فيشقيهم ويتكفأ فيتبر |

2) Each principal investigator has considered elternatives 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 ap institutional Animel 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 inc brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending vaterinarian for this research facility has appropriate authority to ensure the provision of adequate vaterinary 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) | | | | | | | | |
|---|---|---|---|-------------------------|--|--|--|--|
| Ÿ. | SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | 1 | NALLE & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED 12/16/03 | | | | |
| | APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.) | | | | | | | |

APHIS FORM 7023

(AUG 91)

| This report is required by law (7 result in an order to cease and | USC 2143) Failure to desist and to be subject | report according to the To penalties as provid | e regulations led for in Sec | can ction 2150. | See reverse side for additional information. | Interagency Rep 0180-DOA-AN | opt Control No |
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| | ES DEPARTMENT OF A PLANT HEALTH INSPEC | | | 1. REGISTRATION | NO. | FORM APP OMB NO 0 | |
| | | | | 2. HEADOL 65-R | -0002, Cust ld 837 | 90 | d with USDA, |
| ANNUAL REPOR | T OF RESEAR (PE OR PRINT) | CH FACILITY | | MISS P.O. 617 . | SISSIPPI STATE UNIVERSITY BOX 6343 ALLEN HALL SISSIPPI STATE, MS 39762 | | |
| | | | | | | | ob additional |
| 3. REPORTING FACILITY (List all I sheets if necessary) | ocations where animals | were housed or used i | n actual rese | earch, testing, teac | hing, or experimentation, or held for the | se purposes. Ana | ch additionar |
| | | FAC | LITY LOCA | TIONS (Siles) | | | |
| College of Veter | inary Medici | .ne/Wise Cer | nter | Blackjac | k Road Wildlife Fac: | ility | |
| College of Arts | and Sciences | /Harned Hal | .1 | | | | |
| REPORT OF ANIMALS USED BY O | | | (Attach adu | litional sheets if ne | cessary or use APHIS FORM 7023A.) | | 1 |
| 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 leaching surgery conduct accomp distress and for anesthe | of animals upon speriments, g, research, or tests were ed involving anying pain or to the animals which appropriate lic, analgesic, or izing drugs were | E. Number of animals upon which teal experiments, research, surgery or to conducted involving accompanying to the animals and for which the use anesthetic, analgesic, or tranquilized have adversely affected the proced interpretation of the teaching, rese experiments, surgery, or tests. (An the procedures producing pain or animals and the reasons such drug must be attached to this report). | ests were g pain or distress se of appropriate ing drugs would dures, results, or arch, explanation of distress in these | F. TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | 0 | 174 | 7 | '3 | 0 | | 247 |
| 5. Cats | 6 | 0 | | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 6 | | 0 | 0 | | 6 |
| 7. Hamsters | 0 | 4 | | 0 | 0 | | 4 |
| 8. Rabbits | 0 | 0 | | 8 | 0 | | 8 |
| 9. Non-human Primates | 0 | 0 | | 0 | 0 | | 0 |
| 10. Sheep | 0 | 0 | | 7 | 0 | · | 7 |
| 11. Pigs | 0 | 170 | 1 | 19 3 | 0 | | 189 |
| Cows 12. Other Farm Animals | 0 | 6 | | | 0 | | 9 |
| Horses | 0 | 29 | | 7 | 0 | | 36 |
| 13. Other Animals | | | | | | | |
| Deer | 0 | 86 | | 0 | 0 | | 86 |
| Bobcats | 0 | 13 | | 0 | 0 | | 13 |
| Foxes | 0 | 5 | | 0 | 0 | | 5 |
| and following actual researce 2) Each principal investigator (3) This facility is adhering to the principal investigator and a addition to identifying the brack of the principal investigator and a solution to identifying the brack of the principal investigator and a solution to identifying the brack of the principal investigator and a solution to identifying the principal investigator and a solution and a solution to identify the principal investigator and a solution and a s | ch, teaching, testing, su- has considered alternation he standards and regula pproved by the institution ACUC-approved exception | rgery, or experimentati ives to painful procedu tions under the Act, at onal Animal Care and I ons, this summary incl | ion were folk res. nd it has req Use Committ udes a brief | wed by this resear uired that exceptio ee (IACUC). A sur explanation of the | iate use of anesthetic, analgesic, and tra rch facility. Ins to the standards and regulations be a nmary of all such exceptions is attac exceptions, as well as the species and n idequate veterinary care and to oversee | specified and expla hed to this annua umber of animals a | nned by the al report. In affected |
| | (Chief E | | or Legall | y Responsible | CH FACILITY OFFICIAL Institutional Official) USC Section 2143) | <u></u> | |
| | | | NAME | & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (Type or | Print) | DATE SIGNED |
| APHIS FORM 7023 | pin es V⊵ EGRM 18 | 23 (OCT 88) which | is obsolete | } | | | <u></u> |

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| s report is required by law (7 uit in an order to cease and d UNITED STATE ANIMAL AND P | ES DEPARTMENT OF A LANT HEALTH INSPEC | GRICULTURE | 1. REGISTRATION 65-R-00 | 002 | FORM APPR OMB NO. 05 | 79-0036 |
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| (] | ESEARCH FAC | CILITY T) | Include Zip Cod Mississ P.O. Bo 617 A1 Mississ | sippi State Universi ox 6343 len Hall sippi State, MS 3976 | ity | ≪ith USDA, |
| RT OF ANIMALS USED BY OF | | RESEARCH FACILITY | (Attach adiditional sheets if ne | | | |
| Animals Covered By The Animal Wellare 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 tea experiments, research, surgery or conducted involving accompanyin to the animals and for which the u anesthetic, analgesic, or tranquiliz have adversely affected the proce- interpretation of the teaching, ress experiments, surgery, or tests. (Ar the procedures producing pain or animals and the reasons such dru must be attached to this report). | tests were g pain or distress se of appropriate ing drugs would dures, results, or parch, n explanation of distress in these | F TOTAL NO OF ANIMA (Cols. C D + E) |
| Skunk | 0 | 1 | 0 | 0 | | 1 |
| Raccoon | 0 | 1 | 0 | 0 | | 1 |
| Bear | 0 | 1 | 0 | 0 | | 1 |
| Cougar | 0 | 1 | 0 | 0 | | 1 |
| Wild mice | 0 | 30 | 0 | 0 | | 30 |
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1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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.

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| (Chief Executive (| Y HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) e 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 |

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EXEMPTION DETAILS

1. Up to 85 mature beagle dogs are on projects studying the effects of antimicrobial compounds on periodontal disease progression. These studies involve the maintenance of a dog colony in which all dogs have various degrees of periodontal disease (no dogs seem in pain or distress, however, during the studies.) Various treatment are conducted on this animal model to effect a "cure," hoping that similar procedures could be used to treat periodontal in human beings.

Beginning many years ago (around 1989), the investigator requested exemption from A.W.A section 3.11(6) for these reasons:

"Both animal and human research protocols involving gingivitis and periodontitis are studies of a microbial driven disease process. Our studies of juvenile, middles aged, and geriatric patients (beagle dog colonies) are investigative studies of bacterial antigen, gingival attachment loss, increased soft tissue septic pocket depths, secondary bone loss, periodontal ligament necrosis and tooth loss. In addition, secondary systematic effects are triggered by an oral microbial response.

Applying sanitizing chemicals (or 180°F water) to runs coupled with the selfgrooming nature of dogs (licking chemicals off feet, etc.) alters this essential floor and /or oral microflora. Please be aware that each of these runs is extremely clean and is scrubbed and rinsed daily using detergent and hot water. These cleaning methods are the same as you would use on your household eating utensils. In summary, sanitation methods must be exempted from our protocols or all our models become invalid."

The IACUC has discussed with every protocol alternative inoculation routes, use of hot (100°F) water only, increased health risks to dog, literature to support this premise, and other questions. Following considerable deliberations over several years, despite changing IACUC memberships, the committee has accepted the investigator's premise and has waived for this year of 2000 and for past projects the A.W.A. sanitization requirement. The studies continue to this date.

2. Since 1991 small swine housed in large, partitioned polypropylene tubs in Harned Hall, Arts and Sciences, have had an IACUC general approval (last approved August 15, 2000) to house 16 small pigs (148 over the 1999-2000 time period) in spaces per animal less than the 4-6 square foot per pig area specified in the <u>ILAR Guide</u> and in the <u>AG Guide</u>. The sheet attached shows, based on extrapolations from cat and rabbit cage sizes, how much space was deemed appropriate for each smaller weight category. No adverse effects of these smaller spaces for pair-housed young pigs have been noted over 9 years.

SWINE HOUSING AREA - BIOMEDICAL

. . .

This is a request to define more specifically the pen/cage floor area for housing swine weighing less than 25 kg.

Newborn pigs weigh 1.6 kg (3.5 lbs) Pigs are weaned at 21-28 days Weanling pigs weigh 6.8 - 8.2 kg (15-18 lbs)

NIH Guide

· · ·

0 - 25 kg pigs need 6 sq ft each single or grouped

Ag Animal Guide

Litter (9-12) requires 21 sq ft total 5 - 27 kg pigs require 6 sq ft single, 4 sq ft grouped

Proposed floor area for pigs weighing under 25 kg (based on floor space for rabbits):

Under 2 kg (4.4 lbs) 1.5 sq ft each 2 - 4 kg (4.4 - 8.8 lbs) 3 sq ft each 4 - 5 kg (8.8 - 11 lbs) 4 sq ft each 5 - 25 kg (11 - 55 lbs) 6 sq ft each

approved 8/15/00

| This report is required by law (7 result in an order to cease and d | USC 2143) Failure to lesist and to be subject | report according to the to penalties as provid | e regulations ed for in Sec | can tion 2150. | See reverse side for additional information. | Interagency Repo 0180-DOA-AN | |
|---|---|--|---|--|--|---|--|
| UNITED STATE | ES DEPARTMENT OF A | GRICULTURE | | 1. REGISTRATION | NO. | | |
| | | | - | 2. HEADOUARTEF | | | ÜŠĎA, |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | | UNIVERSITY OF MISSISSIPPI M 2500 N. STATE STREET JACKSON, MS 39216 | EDICAL CENTER | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | were housed or used i | n actual rese | earch, testing, teac | hing, or experimentation, or held for t | nese purposes. Atta | ch additional |
| | | FAC | | TIONS (Sites) | | | |
| <u>Research Building</u> | - | ilding | | Jame | s D. Hardy Clinical | <u>Sciences</u> | Building |
| REPORT OF ANIMALS USED BY OF | RUNDER CONTROL OF | RESEARCH FACILITY | l (Attach adic | filional sheets if ne | cessary 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 ino pain, distress, or use of pain- relieving drugs. | which e teaching surgery conduct accomp distress and for anesthe | of animals upon speriments, g, research, or tests were ed involving anying pain or to the animals which appropriate lic, analgesic, or izing drugs were | E. Number of animals upon which t experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests (the procedures producing pain animals and the reasons such d must be attached to this report). | in tests were ing pain or distress use of appropriate lizing drugs would redures, results, or research, An explanation of or distress in these | F. TOTAL NO OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | 4 | | 16 | 4 | | | 164 |
| 5. Cats | | | 1 | 9 | | | 19 |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | 20 | | 45 | 4 | | | 4 54 |
| 8. Rabbits | | | 15 | 4 | | | 154 |
| 9. Non-human Primates | | ····· | 6 | 9 | | | 69 |
| 10. Sheep | | | | | | | |
| 11. Pigs | 2 | | 13 | 1 | · · · · · · · · · · · · · · · · · · · | | 131 |
| 12. Other Farm Animals | | | | - | | | |
| 13. Other Animals | · · · · · · · · · · · · · · · · · · · | | | <u></u> · · · , , , , , , , , , , , , , , , , | | | |
| Ferrets | | | 6 | 1 | | | 61 |
| | | | | | | <u> </u> | |
| ASSURANCE STATEMENTS | | | l | | | | |

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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

3) which is obsolute E

University of Mississippi Medical Center Program Exemption Report

October 1, 1999 through September 30, 2000

Registration No: 65-R-0102

Exceptions to the exercise plan for dogs

A total of 51 dogs were housed in metabolic cages during the fiscal year. These animals are exempted from the canine exercise program. Metabolism dogs are chronically catheterized and continuously, consciously monitored via computer. The jacket system precludes large caging in order to minimize problems with the various instrumentation. The exemption from the exercise requirement has been approved by the UMC IACUC and verified by the LAF veterinary staff.

| Tury reaction required by pawing result actan order to opase and d | deal (146) Cadare Ao resist and follow subject | a port la codona ta tra Ta prinalites as provid | a tor ta See | in an Dean 23 Gai | la e asarse ado ta additional information | n onadese y e en D1209-293A ≜N | et goldte 🍾 |
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| UNITED STAT | ES DEPARTMENT OF A LANT HEALTH INSPEC | GRICULTURE | | 1. REGISTRATION | | FORM APP OM8 NO () | |
| | | | 2. HEADQUARTER include Zip Cod | IS RESEARCH FACILITY (Name and A e) | | I with USDA. | |
| ANNUAL REPOR | T OF RESEAR | CH FACILITY | | OF VETERANS AFE al Office | FAIRS | | |
| - | PE OR PRINT) | | 810 V | ermont Ave., NW | | | |
| (586) VAMC, Jack | son, MS | | | Washi | ngton, DC 20420 |) | |
| | | were housed or used i | n actual res | earch, testing, teacl | hing, or experimentation, or held for t | hese purposes. Atta | ch additional |
| | ····· | FAC | ILITY LOCA | TIONS (Sites) | | | |
| | | VAMC | (586 |) | | | |
| | odrow Wil | | | • | | | |
| Jackson, M | | | | | | | |
| A. | B. Number of | C Number of | | | cessary or use APHIS FORM 7023A.) E. Number of animals upon which t | eaching | - |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which leaching, research, experiments, or lests were conducted involving no pain, distress, or use of pain- relieving drugs. | which e teachin surgery conduc accomp distress and for anesthe | r of animals upon xperiments, g, research, , or lests were ted involving banying pain or s to the animals which appropriate shic, analgesic, or lizing drugs were | experiments, research, surgery c conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests (the procedures producing pain animals and the reasons such d must be attached to this report) | r tests were ing pain or distress use of appropriate lizing drugs would cedures, results, or research, An explanation of or distress in these | F. TOTAL NO OF ANIMALS (Cols. C + D + E) |
| 4. Dogs | | | | | | | |
| 5. Cats | | | | | | | |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | | | | | · · · · · · · · · · · · · · · · · · · | |
| 8. Rabbits | | | | | | | |
| 9. Non-human Primates | | | | | | | |
| 10. Sheep | | | | | | | |
| 11. Pigs | | | | | | | |
| 12. Other Farm Animals | | | | | | | |
| 13. Other Animals | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Mice | 120 | 105 | | 301 | 0 | | 406 |
| Rats | 0 | 0 | | | 0 | | 50 |
| ASSURANCE STATEMENTS | 1 | | 1 | | l | <u> </u> | |
| | | | | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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

(AUG 91)

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 HEADQUARTES RES (Chief Executive Officer or Legally Respondent) I certify that the above is true, correct, and com | onsible Institutional Official) | |
|------------------------|---|---------------------------------|-------------|
| SIGNATURE OF C.E.O. OR | INSTITUTIONAL OFFICIAL | Print) | DATE SIGNED |
| | | 1 . | |
| | | ///7/c | sh |
| APHIS FORM 7023 | (Replaces VS FORM 18-23 (OCT 88), which is obsolete) | /// | |

PART 1 - HEADQUARTERS

Laris "

| | ATES DEPARTMENT OF | | 1. REGISTR 71-R-01 | | TOMER NO. | FORMA | PPROVED |
|--|---|--|--|-----------------------------|--|------------------|----------------------|
| ANIMAL ANI | D PLANT HEALTH INSPE | CTION SERVICE | | | 1419 | OMB NO | . 0579-0036 |
| ANNUAL REPO | ORT OF RESE | ARCH FACIL | ITY 2. HEADQU | ARTERS RESEARCH FAC | LITY (Name and Ac | idress, as regis | tered with USDA, |
| | (TYPE OR PRIN | | | HENDRIX | | | |
| | ••••• | | | | HINGTON AVE AR 72032 | | |
| | | | | (501) 329-6 | 811 | | |
| REPORTING FACILITY (List a sheets if necessary.) | il locations where animals | were housed or used in a | actual research, testing, teachi | ing, or experimentation, or | heid for these purpos | ses. Attach add | tional |
| | | F | ACILITY LOCATIONS(sites) | | | | |
| DW Reynolds | s Center fo | or Life Sc | iences | | | | |
| | | | | | | | |
| PORT OF ANIMALS USED BY | OR UNDER CONTROL C | F RESEARCH FACILITY | (Attach additional sheets if ne | cessary or use APHIS FOR | RM 7023A) | | |
| | B. Number of | C. Number of | D. Number of animals upon | | | | F. |
| Animais Covered | animals being bred. | animals upon which teaching, | which experiments, teaching, research, | | arch, surgery or tests ng accompanying pa | | TOTAL NO. |
| By The Animal | conditioned, or | research, | surgery, or tests were | to the animals and | t for which the use of | appropriate | OF ANIMALS |
| Welfare Regulations | held for use in teaching, testing, | experiments, or tests were | conducted involving | | sic, or tranquilizing d | | Inela D - |
| | experiments, | conducted | accompanying pain or distress to the animals | | tected the procedure teaching, research | | (Cots. C + D + E) |
| | research, or | involving no | and for which appropriat | e experiments, surg | ery, or tests. (An exp | planation of | |
| | surgery but not yet used for such purposes. | pain, distress, or use of pain- relieving drugs. | anesthetic, analgesic, or tranquilizing drugs were used. | | oducing pain or distri basons such drugs w to this meet) | | |
| Dogs | puipores. | | | | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | |
| Cats | | | | | | | |
| Guinea Pigs | | | | | | | |
| Hamsters | | | | | | | |
| Rabbits | | , | | | | | |
| Non-Human Primates | | | | | | | |
| . Sheep | | | | | | | |
| . Pigs | | | | | | | <u>,, .</u> . |
| . Other Farm Animals | | | | | | | |
| | | | | | | | |
| . Other Animals | | | | | | | |
| | 2 | | | | | | |
| | No regula | ted speci | es present | | | | |
| | G | | | | | | |
| SURANCE STATEMENTS | | | | | | 7.000 | |
| 1) Professionally acceptable st and following actual research | | | | | ic, and tranquilizing o | irugs, prior to, | during, |
| | | | re followed by this research fa | canty. | | | |
| Each principal Investigator h | | 122-125 · 3 3 12 035 | | | | | |
| This facility is adhering to the principal investigator and an | | | | | | | e |
| | | | mmittee (IACUC). A summary a brief explanation of the excep | | | | |
| 4) The attending veterinarian for | or this research facility has | | | · · · · · · | | | |
| aspects of animal care and u | | OATION DV 112 | | | 0141 | | |
| | (Chief I | Executive Officer | QUARTERS RESEAR or Legally Responsible | e Institutional offic | ial) | 10/22/0 | 5 |
| SNATURE OF C.E.O. OR IN | | والتركي المرابعة المقال بالمتحصف والمحجم والمراجع | ue, correct, and complete (& TITLE OF C.E.O. OR II | | | | DATE SIGNED |
| | | | | | | | 101- |
| | | | | | | | |
| JIE FORM 7000 | | | | | | <u> </u> | 95102 |
| IIS FORM 7023 AUG 91) | (Replaces VS FORM 18- | 23 (Oct 88), which is ob: | soleta | | P | | |

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| This report is required by law (7 USC 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 215 | | | | 50. | See reverse side for additional information. | Interagency R 0180-DOA-AN | eport Control No |
|---|---|--|---|---|--|--|---|
| | ATES DEPARTMENT OF D PLANT HEALTH INSPE | | | 1. REGISTRATION NO. CUSTOMER NO. FORM APPROVED 72-F-0004 1385 OMB NO. 0579-0036 | | | |
| • ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | | | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USD; include Zip Code) NAT'L HANSEN'S DISEASE 1770 PHYSICIANS PARK DR BATON ROUGE, LA 70816 | | | |
| REPORTING FACILITY (List a sheets if necessary.) | Il locations where animals | were housed or used in a | actual research, | testing, teaching, | or experimentation, or held for these | purposes. Attach add | litional |
| GWLHDC | | F | ACILITY LOCAT | TIONS(sites) | | | · · · · · · · · · · · · · · · · · · · |
| CARVILLE, LA 70894 | | | | | | | |
| | | | | | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL O | F RESEARCH FACILITY | (Attach addition | al sheets if neces | sary 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. | conducted accompany distress to and for whi anesthetic, | eriments, esearch, tests were | E. Number of animals upon which experiments, research, surgery conducted involving accompan to the animals and for which the anesthetic, analgesic, or tranqu have adversely affected the pro- interpretation of the teaching, n experiments, surgery, or tests. the procedures producing pain animals and the reasons such a must be attached to this report) | or tests were ying pain or distress a use of appropriate lizing drugs would ocedures, results, or esearch, (An explanation of or distress in these drugs were not used | F. TOTAL NO. OF ANIMALS (Cois. C + D + E) |
| 4. Dogs | | | • •, • • • • | | | | |
| 5. Cats | | | | | | | |
| 6. Guinea Pigs | | | | | | | |
| 7. Hamsters | | | | | | | |
| 8. Rabbits | | | | | | | |
| 9. Non-Human Primates | | | | | - | | |
| 10. Sheep | | | | | | | |
| 11. Pigs | | | - · · · · | | | | |
| 12. Other Farm Animals | | | | | | | |
| Armadillos | 50 | 200 | | | | | 200 |
| 13. Other Animals | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ASSURANCE STATEMENTS | | | | | | | |

nesthetic, 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 | |
|-----------------------|-----------------------------------|--|-------------|
| 1 | (Chief Executive | e Officer or Legally Responsible Institutional official) | |
| | I certify that the | above is true, correct, and complete (7 U.S.C. Section 2143) | |
| SIGNATURE OF C.E.O. O | R INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | | 11/13/2002 |
| APHIS FORM 7023 | (Replaces VS FORM 18-23 (Oct 88), | which is obsolete PART 1 - H | EADQUARTERS |

| result in an order to cease and d | esist and to be subject | to penalties as provide | ed for Hi Sec | ction 2150. | additional information. | 0180-DOA-AN | | | |
|--|---|--|---|--|---|--|-------------------|--|--|
| | ES DEPARTMENT OF A | GRICULTURE | | 1. REGISTRATION | NO. | FORM APP | | | |
| ANIMAL AND P | LANT DEALTH INSPEC | | | 74-F-0002 | 2 | OMB NO. 05 | | | |
| | | DEC 6 | | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code) | | | | | |
| ANNUAL REPOR | T OF RESEAR | CH FACILITY | | | MEDICAL DEPARTMENT | | SCHOOL | | |
| (TY | PE OR PRINT) | | | | VT OF VETERINARY SC | | | | |
| | | | | | CS-HV, 2250 STANI | | | | |
| | | | | | HOUSTON, TX 78234 | | | | |
| 3. REPORTING FACILITY (List all k sheets if necessary) | ocations where animals | were housed or used i | n actual res | earch, lesting, leac | hing, or experimentation, or held for | these purposes. Attac | n additional | | |
| | | FAC | LILITY LOCA | TIONS (Siles) | | | <u></u> | | |
| BUILDING T2660 | | · | | BUILDING | 2657 | | | | |
| BUILDING T3840 | | | | | | | | | |
| REPORT OF ANIMALS USED BY OF | R UNDER CONTROL OF | RESEARCH FACILITY | (Attach aili | ditional sheets if no | | | | | |
| A Animals Covered By The Animal | B. Number of animals being bred, conditioned, or | C Number of animals upon which teaching, research, | which a teaching | r of animals upon experiments, iq, research, y, or tests were | E. Number of animals upon which experiments, research, surgery conducted involving accompan to the mimals and for which th anesthetic, analgesic, or trangu | or tests were ying pain or distress e uso of appropriate | F. | | |
| Welfare Regulations | held for use in teaching, testing, experiments, research, or | lests were accom conducted distre- involving no and ic | | ted involving panying pain or s to the animals r which appropriate | have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of | | OF ANIMALS | | |
| | surgery but not yet used for such purposes. | pain, distress, or use of pain- relieving drugs. | and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used. | | the procedures producing pain animals and the reasons such must be attached to this report | drugs were not used | D + E) | | |
| 4. Dogs | 0 | 2 | | 30 | 0 | | 32 | | |
| 5. Cats | 0 | 7 | | 0 | 0 | | 77 | | |
| 5. Guinea Pigs | 0 | 7 | | 0 | | | 77 | | |
| 7. Hamsters | 0 | 0 | | 0 | 0 | | 0 | | |
| 8. Rabbits | 0 | 4 | ļ | 0 | 0 | | 44 | | |
| 9. Non-human Primates | 0 | 0 | ļ | 0 | 0 | | 0 | | |
| 10. Sheep | 0 | 0 | | 0 | 0 | | 0 | | |
| 11. Piqs | 0 | 0 | | 0 | 0 | | 0 | | |
| 12. Other Farm Animals | 0 | 0 | ļ | 0 | 0 | | 0 | | |
| Goats | 0 | 0 | ļ | 326 | 0 | | 326 | | |
| 13. Other Animals | 0 | 0 | ļ | 0 | 0 | | 0 | | |
| Mice | 0 | 19 | <u> </u> | Û | 0 | | 19 | | |
| Rats | 0 | 19 | <u> </u> | 0 | 0 | | 19 | | |
| | | | | | | ant difference in the state of | ingen bilt stårfi | | |
| ASSURANCE STATEMENTS | | | | | | | | | |

Professionally acceptable standards governing the care, treatment, and use of animals, including approvate 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) Evenity that the above is true, correct, and complete (7 USC Suction 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

| This report is required by law (7 USC 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 21 | See attached form for additional information. | Interagency Report Control No : 0180-DOA-AN |
|--|--|--|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE NOV 6 LULL | 1. CERTIFICATE NUMBER: 74-F-0004 CUSTOMER NUMBER: 1434 | FORM APPROVED OMB NO: 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Usda,Ars,Knipling-Bushland Us Livestock Insects Res.Lab 2700 Fredericksburg Rd. Kerrville, TX 78029 | Telephone: (512)257-3566 |

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 Atached Listing

| A. Animals Covered By The Animal Welfare Regulations | В. | 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 NUMBE OF ANIMALS (COLUMNS C + D + E) |
|---|----|--|----|--|----|---|---|--|---|
| 4. Dogs | | | | | 1 | | | | |
| 5. Cats | | | | | | | | | |
| 6. Guinea Pigs | | | | 40 | 1 | | | | 40 |
| 7. Hamsters | | | 1 | | | | | | |
| 8. Rabbits | | | | | | | | | • • • • • • • • • • • • • • • • • • • |
| 9. Non-human Primates | | | | | | | | | |
| 0. Sheep | | 0 | | | St | atement: | 1 | Farm animals used at this fa | cility |
| 1. Pigs | | | | | | | e | are involved in studies to i | ncrease |
| 2. Other Farm Animals | | 0 | | | | | 6 | animal production. | |
| 3. Other Animals | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, 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.

| | (Chief Executi | BY HEADQUARTERS RESEARCH FACILITY OFFICIAL ve Officer or Legally Responsible Institutional Official) above is true, correct, and complete (7 U.S.C. Section 2143) | |
|---|-----------------|---|-------------|
| SIGNATURE OF C E O, OR INSTITUTIONAL OFFICIAL | ~ ~1 | INAME & TITLE OF CEO OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | | 10-30-0 |

Animal Report of Research Facility, APHIS Form 7023 Certificate Number: 74-F-0004, Customer Number: 1434

Reporting Facility: Knipling-Bushland U.S. Livestock Insects Research Laboratory USDA, REE, ARS, SPA 2700 Fredericksburg Road Kerrville, Texas 78028-9184

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Facility Locations (Sites):
 Kerrville, Texas
 Mission, Texas
 Camp Stanley Storage Activity (U.S. Army), Boerne, Texas

| This report is required by law result .n an order to cease an | | | | 150. | See reverse additional int | | Interagency Re 0180-DOA-AN | port Control No | | |
|--|---|--|--|---|--|--|--|---|--|--|
| | UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | | 1. REGISTRATION NO. CUSTOMER NO. FORM APPROVED 74-R-0129 1500 OMB NO. 0579-0036 | | | | |
| ANNUAL REPO | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) ENCYSIVE PHARMACEUTICALS INCORPORATED 7000 FANNIN ST STE 1920 HOUSTON, TX 77030 | | | | | | | | | |
| 3. REPORTING FACILITY (List a sheets if necessary.) | all locations where animals | | | | or experimen | tation, or held for these p | urposes. Attach addi | tional | | |
| See Attached Listing | | F/ | | ATIONS(sites) | | | | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL O | F RESEARCH FACILITY | (Attach additio | onal sheets if neces | isary or use A | PHIS 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. | which ex teaching surgery, conducte accompa distress and for w anesthet | of animals upon periments, research, or tests were di involving mying pain or to the animals which appropriate ic, analgesic, or ding drugs were | experim conduct to the a anesthe have ac interpre experim the pro- animals | r of animals upon which te rents, research, surgery or ted involving accompanyin inmais and for which the u retic, analgesic, or tranquilla tversely affected the proce- tation of the teaching, res- tents, surgery, or tests. (A sedures producing pain or and the reasons such dro e attached to this report) | r tests were ng pain or distress use of appropriate sing drugs would adures, results, or earch, in explanation of distress in these | F. TOTAL NO. OF ANIMALS (Cois. C + D + E) | | |
| 4. Dogs | | | | | | | | | | |
| 5. Cats | | | | | | | | | | |
| 6. Guinea Pigs | | | | | | | | | | |
| 7. Hamsters | | | | | | | | | | |
| 8. Rabbits | | | | | | | | | | |
| 9. Non-Human Primates | | | | | | | | | | |
| 10. Sheep | <u> </u> | | | | | | | | | |
| 11. Pigs | | | | | | | | | | |
| 12. Other Farm Animals | | | | | | | | | | |
| 13. Other Animals | | | | | | | | | | |
| | <u></u> | | | | | , | | | | |
| | | | | | | | | | | |
| ASSURANCE STATEMENTS | | | | | I | | | | | |
| Professionally acceptable and following actual resear Each principal investigator This facility is adhering to t principal investigator and a addition to identifying the l/ The attending veterinarian | ch, teaching, testing, surge has considered alternative the standards and regulatic pproved by the Institutions ACUC-approved exception for this research facility ha | ery, or experimentation we to painful procedures. Ins under the Act, and it h al Animal Care and Use Co s, this summary includes a | re followed by as required the mmittee (IACI a brief explana | this research facili at exceptions to the UC). A summary o tion of the exceptio | ty. standards ar f all the exce ins, as well at | nd regulations be specified ptions is attached to thi s the species and number | d and explained by t is annual report. In of animals affected. | 18 | | |
| aspects of animal care and | | ICATION BY HEAD | QUARTER | RS RESEARC | | Y OFFICIAL | | | | |

| | (Chief Execut | N BY HEADQUARTERS RESEARCH F/ ve Officer or Legally Responsible Inst the above is true, correct, and complete (7 U.S. | itutional official) | |
|-----------------------------|--------------------------------|---|----------------------------------|---------------------------|
| SIGNATURE OF CEOC | DINETITITIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITU | ITIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 (Oct 8 |), which is obsolete | PART 1 - H | EADQUARTERS V 2 4 2003 |

The following sites have been reported by the facility.

Registration Number:74-R-0129Customer Number:1500Facility:ENCYSIVE PHARMACEUTICALS INCORPORATED
7000 FANNIN ST STE 1920
HOUSTON, TX 77030
(713) 796-8822

SITE1 7000 FANNIN STREET, SUITE1920 HOUSTON, TX 77030

| his report is required by law (esult in an order to cease and UNITED STA | TES DEPARTMENT OF AC PLANT HEALTH INSPECT | RICINIURE | | 84-R-0058 | | CUSTOMER NO. 1784 | FORM API OMB NO. 0 | 579-0036 |
|---|--|--|---|---|--|--|--|---|
| ANNUAL REPO | HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) A M C CANCER RESEARCH CENTER 1600 PIERCE STREET LAKEWOOD, CO 80214 (303) 239-3561 h, testing, teaching, or experimentation, or held for these purposes. Attach additional | | | | | | | |
| EPORTING FACILITY (List a neets if necessary.) | I locations where animals w | ere housed or used in ac | tual research | h, testing, teaching, or (| experime | Ration, of field reference | | |
| | | FA | CILITY LOC | ATIONS(sites) | _ | | | |
| Attached Listing | | | | | | | | |
| | | 76 | | | | | | |
| ORT OF ANIMALS USED BY | OR UNDER CONTROL OF | RESEARCH FACILITY | (Attach addit | ional sheets if necessa | ry or use | APHIS FORM 7023A) er of animals upon which ter | aching, | F. |
| 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 conduct accomp distress and for anesth | r of animals upon typeriments, g, research, , or tests were ted involving panying pain or s to the animals which appropriate etic, analgesic, or lizing drugs were | expen condu to the anest have interp expen the pi | er of animits open where a ments, research, surgery or icted involving accompanyin animals and for which the u hetic, analgesic, or tranquiliz adversely affected the proce- retation of the teaching, res- iments, surgery, or tests. (<i>A</i> rocedures producing pain or als and the reasons such dra be attached to this report) | g pain or distress ise of appropriate ing drugs would odures, results, or earch, In explanation of distress in these | TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| Dogs | | | | | | | | |
| Cats | | | | | | | | |
| Guinea Pigs | | | | | | | | |
| Hamsters | | | ļ | | | | | |
| Rabbits | | | _ | | | | | |
| Non-Human Primates | | | ļ | | | | | |
| 0. Sheep | | | | | | | | + |
| 1. Pigs | | | | | | | | |
| 2. Other Farm Animals | | | | | | | | |
| 13. Other Animals | | | | | | | | 589 |
| MICE | 0 | 467 | 1 | 22 | | | | 230 |
| RATS | 4 | 225 | | 1 | + | | | |
| | | | | | 4 | | | |
| and following actual re 2) Each principal investig 3) This facility is adhering | gator has considered alterna g to the standards and regu and approved by the Institut the IACUC-approved excep arian for this research facilit e and use. | tives to painful procedure lations under the Act, and lonal Animal Care and Us tions, this summary inclus y has appropriate authorit TIFICATION BY HI inf Executive Office | is. it has requi e Committed des a brief et ty to ensure EADQUA Cer or Le | red that exceptions to t a (IACUC). A summery xplanation of the except the provision of adequit RTERS RESEAR gally Responsib | he standa of all th stions, as ate veterin CH FA | ards and regulations be species and regulations be species and regulations be species and num hary care and to oversee the CILITY OFFICIAL (tutional official) 2. Section 2143) TIONAL OFFICIAL (Type) | cified and explained o this annual repor ober of animals affect a adequacy of other | by the t. In cted. |
| SIGNA | | Ň | A 14E 0 TH | ri E OF C E.O. OR 1 | N3111U | | | 10/22/ |
| APHIS FORM 7023 | (Kebithas to Low |), which | is obsolete | | | | PARI | |

 \checkmark

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The following sites have been reported by the facility.

Registration Number: Customer Number: Facility: 84-R-0058 1784 A M C CANCER RESEARCH CENTER 1600 PIERCE STREET LAKEWOOD, CO 80214 (303) 239-3561

AMC CANCER RESEARCH CENTER 1600 PIERCE STREET LAKEWOOD, CO 80214

| | | | | | | | | 12-16 |
|---|---|--|--|--|--|--|---|-----------------|
| This report is required by law result in an order to cease ar | r (7 USC 2143). Failure to re nd desist and to be subject t | aport according to the re- o penalties as provided i | gulations can for in Section 21 | 50. | See reverse side for additional information. | d. | Interagency Re 0180-DOA-AN | port Control No |
| UNITED ST | UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | | CUSTOMER NO. FORM APPROVED 1071 OMB NO. 0579-0036 | | |
| ANNUAL REP | (TYPE OR PRIN | T) | | include Zip C | UNIVERSI SCHOLES ALBUQUE (505) 277-6 | TY OF NEW M HALL, ROOM RQUE, NM 87 3128 | EXICO-MAINCA 227-A 131 | MPUS |
| . REPORTING FACILITY (List a sheets if necessary.) | all locations where animals | | and the owner of the local division of the l | the state of the second se | or experimentation, or | held for these put | poses. Attach addi | |
| See Attached Listing | | F | ACILITY LOCA | TIONS(stes) | | | <u></u> | |
| | | | | | | | | |
| | | | | | | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL O | F RESEARCH FACILITY | (Attach addition | nal sheets if neces | sary or use APHIS FOI | RM 7023A) | - h la - | F. |
| A. Animals Covered By The Animai 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 exp teaching, surgery, o conducted accompar distress to and for wi anesthetic | | e. Number of animals upon which leading, 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 | | TOTAL NO. OF ANIMALS (Cois. C + D + E) | |
| 4. Dogs | | | | <u></u> , | | | | · |
| 5. Cats | | | | <u> </u> | | | | |
| 6. Guinea Pigs | | | | | | | | 28 |
| 7. Hamsters | 80 | 28 | 0 | | | 0 | | 20 |
| 8. Rabbits | | | | | | | | |
| 9. Non-Human Primates | | | | | | | | |
| 10. Sheep | | | ļ | | | | | |
| 11. Pigs | | | | | | . <u></u> | | |
| 12. Other Farm Animals | | | | | | | | |
| 13. Other Animals | | | | | | | | |
| Wild Rodents (Deer Mice) | 469 | 110 | 21 | . <u>.</u> | | 0 | | 131 |
| | | | | | 1 | <u></u> | | |
| ASSURANCE STATEMENTS | | L | <u></u> | | | | | |

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.

| (Chief Everythy | BY HEADQUARTERS RESEARCH FACILITY OFFICIAL e Officer or Legally Responsible Institutional official) e above is true, correct, and complete (7 U.S.C. Section 2143) | |
|---|--|----------------|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | 10/29/03 |
| | PART | - HEADQUARTERS |

88), which is obsolete

ALY 28 Los 1 2

APHIS Form 7023 Site List

The following sites have been reported by the facility.

Registration Number:85-R-0002Customer Number:1071Facility:UNIVERSITY OF NEW MEXICO-MAINCAMPUS
SCHOLES HALL, ROOM 227-A
ALBUQUERQUE, NM 87131
(505) 277-6128

UNIV.OF NEW MEXICO-MAINCAMPUS DEPT. OF BIOLOGY, CASTETTER HALL DEPT. OF PSYCHOLOGY, LOGAN HALL SEVILLETA RESEARCH, SOCORRO, NM ALBUQUERQUE, NM 87131

| This report is required by law (7 result in an order to cease and c | USC 2143). Failure to lesist and to be subject | report according to th to penalties as provid | e regulations can led for in Section 2150. | on 2150. additional information. 0160-DOA-AN | | | | | |
|---|---|--|--|--|---|---|--|--|--|
| | ES DEPARTMENT OF A | | 1. REGISTRATION | N NO. | JAIS FORM APP | | | | |
| | | | 2. HEADQUARTE | 93-R-0220 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, | | | | | |
| ANNUAL REPOR | T OF RESEAR PE OR PRINT) | CH FACILITY | Sibia 505 Co | include Zip Code) Sibia Neuroscience, Inc. 505 Coastal Blvd. South, Suite 300 La Jolla, CA 92037 | | | | | |
| 3. REPORTING FACILITY (List all lo sheets if necessary.) | ocations where animals | were housed or used | in actual research, testing, teac | hing, or experimentation, or held for t | hese purposes. Attac | ch additional | | | |
| | ······ | FAC | CILITY LOCATIONS (Sites) | | | | | | |
| See. 1 | have | | | | | | | | |
| See a | lbove | ····· | | <u></u> | | ······································ | | | |
| | | DECEADON FACILITY | | acessary or use APHIS FORM 7023A) | | | | | |
| A | B. Number of | C Number of | D. Number of animals upon | E. Number of animals upon which | | F. | | | |
| Animals Covered By The Animal Welfare Regulations | animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | 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. | experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranqui have adversely affected the pro- interpretation of the teaching, re experiments, surgery, or tests. the procedures producing pain animals and the reasons such of must be attached to this report). | ring pain or distress use of appropriate lizing drugs would sedures, results, or esearch, An explanation of or distress in these trugs were not used | TOTAL NO. OF ANIMALS (Cols. C + D + E) | | | |
| 4. Dogs | 0 | 0 | 0 | 0 | | 0 | | | |
| 5. Cats | 0 | 0 | 0 | 0 | | 0 | | | |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | | 0 | | | |
| 7. Hamsters | 0 | 0 | 0 | 0 | | 0 | | | |
| 8. Rabbits | 0 | 0 | 0 | 0 | | 0 | | | |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | | 0 | | | |
| 10. Sheep | 0 | 0 | 0 | 0 | | 0 | | | |
| 11. Pigs | 0 | 0 | 0 | 0 | | 0 | | | |
| 12. Other Farm Animals | 0 | 0 | 0 | 0 | | 0 | | | |
| | | | | | | | | | |
| 13. Other Animals | 0 | 0 | 0 | 0 | | 0 | | | |
| | | | | | | | | | |
| | No regulate | species. | | | | | | | |
| ASSURANCE STATEMENTS | | | 1 | Contraction of the second | | | | | |
| 1). Professionally acceptable sta | andards governing the | care, treatment, and u | se of animals, including appror | iate use of anesthetic, analgesic, and | | أوالكا المرجعين بالأمينية مثميه راب | | | |
| and following actual researc 2). Each principal investigator h | | | ion were followed by this reseautes. | | | | | | |
| 3). This facility is adhering to the principal investigator and an | e standards and regula | tions under the Act, a | nd it has required that exception | ons to the standards and regulations b nmary of all such exceptions is att | ached to this annua | i report. In | | | |
| | | | | exceptions, as well as the species and dequate veterinary care and to overs | | | | | |
| | (Chief Ex | ecutive Officer | or Legally Responsible | CH FACILITY OFFICIAL Institutional Official) | | | | | |
| | lce | rtify that the above is | true, correct, and complete (7 | | or Print) | DATE SIGNED | | | |
| | | | NAME & ITILE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (Type | u Fing | 2/24/00 | | | |
| L , | | OCT 88), which | is obsolete.) | | PART 1 - HE | ADQUARTERS | | | |

| This report is required by law (7 USC 2143). Failure to report according to the regulations can | See attached form for Interagency Report Control No.: additional information | | | | | | |
|---|---|--|--|--|--|--|--|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 93-R-0297 Laris FORM APPROVED CUSTOMER NUMBER: 8226 | | | | | | |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Torrey Pines Inst. For Molecular Studies 3550 General Atomics Ct. San Diego, CA 92121 Telephone: (619) -455-3803 | | | | | | |
| B. 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 Atached Listing

| REPORT OF ANIMALS | USED BY OR UNDER | CONTROL OF RESEAF | CH FACILITY (Attach addition | al 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 y | 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, a | E. Number of animals upon whice experiments, research, surge conducted involving accompa- to the animals and for which t anesthetic, analgesic, or tranc- have adversely affected the p interpretation of the teaching, surgery, or tests. (An explan producing pain or distress in t reasons such drugs were not | ry or tests were inying pain or distress he use of appropriate quilizing drugs would rocedures, results, or research, experiments, ation of the procedures hese animals and the | F. TOTAL NUMBE OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | | | | | | |
| 5. Cats | | | | / | / | |
| 6. Guinea Pigs | | | | | | |
| 7. Hamsters | | | | | | |
| 8. Rabbits | | | | | | |
| 9. Non-human Primate | | | | | | |
| 0. Sheep | | | | | | |
| 1. Pigs | | | | | | |
| 2. Other Farm Animals | | | | | | |
| 3. Other Animals | | / | / | | | |
| e only use rat | s and mice. | | | | | |
| | | | | | | |
| | | | | | | |
| ASSURANCE STATEMENTS | | | | <u>[[n]]</u> | | |
| actual research, tead 2) Each principal inves 3) This facility is adher investigator and app | ching, testing, surgery, or tigator has considered all ing to the standards and i proved by the Institutional | experimentation were foll ernatives to painful proce regulations under the Act, Animal Care and Use Cor | use of animals, including appropri owed by this research facility. dures. and it has required that exceptions nmittee (IACUC). A summary of all of the exceptic ns, as well as the s | USCA _PHIS_Ri s to the standards and regulations such exceptions is attached fo this | aC. AC be specified and explained | by the principal |
| 4) The attending veteri | narian for this research fa | cility has appropriate auth | nority to ensure the provision of ad | equate veterinary care and to over | see the adequacy of other a | spects of animal c |
| | | | Y HEADQUARTERS RESEAR(Officer or Legally Responsible | | | |
| SIGNATURE OF CEO. OR | INSTITUTIONAL OFFICIA | _ | NAME & TITLE OF C.E.O. | OR INSTITUTIONAL OFFICIAL (7) | ype or Print | DATE SIGNE |
| | | | | | | 10-31-00 |

| This report is required by law (7 USC 2143) Failure to report according to the regreations can | See attached form for additional information | Interagency Report Control No.: |
|--|---|---------------------------------|
| UNITED STATES DEPARTMENT OF AGRICULTURE | 1. CERTIFICATE NUMBER: 93-R-0323 | FORM APPROVED |
| ANIMAL AND PLANT HEALTH INSPECTION SERVICE | CUSTOMER NUMBER: 8225 | OMB NO. 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY | Santa Clara University | Telephone: |
| (TYPE OR PRINT) | Alumni Science Building | (408)554-4535 |
| 3 REPORTING FACILITY (List all locations where any his were housed or used in active research, testin | Santa Clara, CA 95053 | |

FACILITY LOCATIONS (Sites) - See Atached Listing

| | | | | binal sheets if necessary or use APHIS Form 7023A) | F. |
|---|--|---|--|--|--|
| A. Animals Covered By The Animal Welfare Regulations | Number of animals being bred, conditionent or held for upe in teaching experiment research or surgery but not y. | C. Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs | D. Number of an-mais upon which experiments, fill-aching, research, surrary, or fillsts were contructed involving accompanying bain or distress to the animals and for which appropriate attesthetic, all | 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 | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | 0 | 0 | O | 0 | 0 |
| 5. Cats | 0 | O | 0 | 0 | 0 |
| 6. Guinea Pigs | 0 | O | 0 | 0 | 0 |
| 7. Hamsters | 0 | O | 0 | 0 | Ö |
| 8. Rabbits | 0 | 0 | 0 | 0 | 0 |
| 9. Non-human Primate | 0 | O | 0 | O | 0 |
| 0. Sheep | 0 | O | 0 | 0 | 0 |
| 1. Pigs | 0 | 0 | 0 | 0 | 0 |
| 2. Other Farm Animals | 0 | 0 | 0 | 0 | 0 |
| 3. Other Animals | 0 | 0 | | <u> </u> | 0 |
| | | | | | |

ASSURANCE STATEMENTS

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 Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and follo 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 ovarise the adequacy of other aspects of animal ca

| • | • | CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) | |
|---|---|---|-------------|
| | | | DATE SIGNED |

APHIS FORM 7023 (Replaces VS FORM 18-23 OCT 58), which is insolved (AUG 91.)

Annual Report Site Listing:

Customer ID and Site Address:

Cust ID: 8225

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Alumni Science Buildin Santa Clara, CA 95053 County: Santa Clara Telephone (408)554-4535

15.

| This report is required by law result in an order to cease a | w (7 USC 2143). Failure to ind desist and to be subjec | report according to the re to penalties as provided | egulations can for in Section 2150. | See reverse side for additional information. | Interagency Repo 0180-DOA-AN | rt Control No |
|---|---|--|---|---|---|---|
| UNITED S ANIMAL AN | TATES DEPARTMENT OF ND PLANT HEALTH INSPE | AGRICULTURE | 1. REGISTRA 93-R-0323 | | FORM APP OMB NO. 0 | |
| ANNUAL REP 3. REPORTING FACILITY (List | (TYPE OR PRIN | IT) | -LIT include Zip | | D OF TRUSTEES OF L 95053 | SANTA CLARA |
| sheets if necessary.) | | | ACILITY LOCATIONS(sites) | | | |
| See Attached Listing | | | | | ······································ | <u> </u> |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL O | F RESEARCH FACILITY | ' (Attach additional sheets if nece | ssery or use APHIS FORM 7023A } | | |
| A. Animats Covered By The Animal Weifare 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 animels and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used. | E. Number of animals upon which experiments, research, surgery conducted involving accompar- to the animals and for which the anesthetic, analgesic, or tranqu- have adversely affected the pri- interpretation of the teaching, i experiments, surgery, or tests, the procedures producing pain animals and the reasons such must be attached to this report | y or tests were lying pain or distress e use of appropriate illizing drugs would ocedures, results, or esserch, (An explanation of or distress in these drugs were not used | TOTAL NO. OF ANIMALS (Cois. C + D + E) |
| 4. Dogs | 0 | O | 0 | 0 | | 0 |
| 5. Cats | 0 | 0 | 0 | 0 | | 0 |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | | 0 |
| 7. Hamsters | G | 0 | 0 | 0 | | 0 |
| B. Rabbits | 0 | 0 | 0 | 0 | | 0 |
| 9. Non-Human Primates | 0 | 0 | Ö | 0 | | 0 |
| 10. Sheep | 0 | 0 | 0 | 0 | | 0 |
| 11. Pigs | 0 | 0 | 0 | 0 | | 0 |
| 12. Other Farm Animals | 0 | 0 | 0 | 0 | | 0 |
| 13. Other Animals | 0 | 0 | 0 | 0 | | 0 |
| 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.

| | (Chief Executiv i certify that the | BY HEADQUARTERS RESEARCH FACILITY OFFICIAL re Officer or Legally Responsible Institutional official) e above is true, correct, and complete (7 U.S.C. Section 2143) | |
|--------------------------------|---------------------------------------|---|----------------|
| SIGNATURE OF C.E.O. OR INSTITI | JTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | | 11/24/03 |
| APHIS FORM 7023 👌 (Repla | ces VS FORM 18-23 (Oct 88) | , which is obsolete PART 1 | - HEADQUARTERS |

(AUG 91)

NOV 2 6 2003

| - UNITED STA ANIMAL AND | TES DEPARTMENT OF A PLANT HEALTH INSPEC | GRICULTURE | | | PPROVED 0579-0036 |
|---|---|---|---|---|---|
| ANNUAL REPOR | RT OF RESEAR YPE OR PRINT) | CH FACILITY | 2. HEADQUARTE include Zip Co Cypros 2714 Lo | RS RESEARCH FACILITY (Name and Address, as register | |
| sheers if necessary.) | locations where animals | were housed or used | in actual research, testing, tea | ching, or experimentation, or held for these purposes. At | tach additional |
| | | FAG | CILITY LOCATIONS (Siles) | • | |
| Same as Above | | | | | |
| | | | | 4. 1 | |
| PORT OF ANIMALS USED BY O | | | | ecissary or use APHIS FORM 7023A.) | |
| 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 lests 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). | TOTAL NO. OF ANIMAL: (Cols. C + D + E) |
| Dogs | 0 | 0 | 0 | 0 | 0 |
| Cats | 0 | 0 | 0 | 0 | 0 |
| Guinea Pigs | 0 | 0 | 00 | 0 | 0 |
| Hamsters | 0 | 0 | <u> </u> | 0 | 0 |
| Rabbits | 0 | 0 | | 0 | 0 |
| Non-human Primates | 0 | 0 | 0 | 0 | 0 |
| Sheep | 0 | 0 | 0 | 0 | 0 |
| . Pigs | 0 | 0 | 00 | 0 | 0 |
| . Other Farm Animals | 0 | 0 | | 0 | 0 |
| | 0 | | 0 | | |
| b. Other Animals | | 0 | 0 | 0 | 0 |
| | 0 | | | 而居居世世国 | |
| | | | | | |
| | | | | SEP 2 4 1999 | • |
| SURANCE STATEMENTS | | | | | |

b). This lability is advertising to the standards and regulations builter the 40, and it has required that exceptions to the standards and regulations be before and 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 HEADQUARTES RESEARCH FACILITY OFFICIAL

DATE SIGNED

| results an order to ogon am | | | فاستخدار ويردي وتركبني الأكل مستجد والمتعاد | | ur dua an - Étu |
|---|---------------------------------------|---------------------------------------|--|--|-------------------------------------|
| | TES DEPARTMENT OF A | | 1. REGISTRATIO | | FORM APPECIAED OMB NO: 0579 (036 |
| | | | 94-V- 2. HEADQUARTE | UU1 RS RESEARCH FACILITY (Name and Addre | |
| | | | include Zip Co | te) | |
| | RT OF RESEAF YPE OR PRINT) | | | T OF VETERANS AFFAIRS NT AVENUE, N.W. | CENIRAL OFFICE |
| () | TPE OR PRINT) | | WASHINGTO | | |
| | | | A state of the sta | and the state of the state | • * |
| 3. REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used | in actual research, testing, leac | hing, or experimentation, or held for these | purposes. Attach additional |
| | | FAG | CILITY LOCATIONS (Sites) | | |
| 672 VA MEDICAL C SAN JUAN PR | | | | | |
| | | | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL OF | F RESEARCH FACILITY | (Attach adiditional sheets if ne | cessary or use APHIS FORM 7023A.) | |
| A. | B. Number of animals being | C Number of animals upon | D. Number of animals upon which experiments. | E. Number of animals upon which teach experiments, research, surgery or test | |
| Animals Covered By The Animal | bred, conditioned, or | which teaching, research, | teaching, research, surgery, or tests were | conducted involving accompanying p to the animals and for which the use | ain or distress |
| Welfare Regulations | held for use in teaching, testing, | experiments, or tests were | conducted involving accompanying pain or | anesthetic, analgesic, or tranquilizing have adversely affected the procedure | drugs would OF ANIMALS |
| | experiments, research, or | conducted involving no | distress to the animals and for which appropriate | interpretation of the teaching, research experiments, surgery, or tests (An ex- | planation of (Cols. C + |
| | surgery but not yet used for such | pain, distress, or use of pain- | anesthetic, analgesic, or tranguilizing drugs were | the procedures producing pain or dis animals and the reasons such drugs | tress in these D+E |
| | purposes. | relieving drugs. | used | must be atlached to this report). | |
| 4. Dogs | | | | | |
| 5. Cats | | | | | |
| 6. Guinea Pigs | | i | | | |
| 7. Hamsters | | | | | |
| 8. Rabbits | | | | | |
| 9. Non-human Primates | | | | | |
| 10. Sheep | 1 | · · · · · · · · · · · · · · · · · · · | | | |
| ···· <u>·</u> ···· <u>··························</u> | | | | | |
| 11. Pigs | | | | | |
| 12. Other Farm Animals | | | | | |
| | NO ANIMALS | USED THIS Y | EAR | | |
| 13. Other Animals | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ASSURANCE STATEMENTS | | | | | |

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 oversed the adequacy of other aspects of animal care and use.

| CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) 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 | | | |
| | | 11-13-00 | | | |

Interagency Report Control No. See attached form for This report is required by law (7 USC 2143). Failure to report according to the regulations additional information can UNITED STATES DEPARTMENT OF AGRICULTURE 1. CERTIFICATE NUMBER: 95-F-0004 FORM APPROVED OMB NO. 0579-0036 ANIMAL AND PLANT HEALTH INSPECTION SERVICE CUSTOMER NUMBER: 1208 Noaa, National Marine Fisheries Service ANNUAL REPORT OF RESEARCH FACILITY Sw Fisheries Science Cntr Lab (TYPE OR PRINT) Telephone: 2570 Dole Street (808)943-1221 Honolulu, HI 96822 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 Atached Listing

| REPORT OF ANIMALS | USED BY OR UNDER | CONTROL OF RESEARC | CH FACILITY (Attach addi | tional 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 y | 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, a | 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 | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | | | | | |
| 5. Cats | | | | | |
| 6. Guinea Pigs | | | | | |
| 7. Hamsters | : | | | : : | |
| 8. Rabbits | | | | | · · · · · · · · · · · · · · · · · · · |
| 9. Non-human Primate | | | | | 1 |
| 0. Sheep | | | | | |
| 1. Pigs | | | | | |
| 2. Other Farm Animals | · · · · · · · · · · · · · · · · · · · | | | | · · · · · · · · · · · · · · · · · · · |
| 3. Other Animals | •••••••••••••••••••••••••••••••••••••• | | | | |
| lawaiian monk seals | 0 | 0 | 0 | 0 | 0 |
| ASSURANCE STATEMENT | s | | | | |
| Professionally acception Professionally acception Catual research, tead Each principal investigator This facility is adhert investigator and approved extra transmission | ptable standards governin ching, testing, surgery, or stigator has considered al ring to the standards and proved by the Institutional ceptions, this summary in | experimentation were follow ternatives to painful procedu regulations under the Act, a Animal Care and Use Comr icludes a brief explanation o | wed by this research facility. ures. nd it has required that except nittee (IACUC). A summary of f the exceptions, as well as th | opriate use of anestetic, analgesic, and tranquilizing drugs, prio ions to the standards and regulations be specified and explaine all such exceptions is attached to this annual report. In addition e species and number of animals affected. | d by the principal to identifying the |
| | | | | ARCH FACILITY OFFICIAL sible Institutional Official) | <u> </u> |
| | | <u></u> | NAME & TITLE OF C.E | O. OR INSTITUTIONAL OFFICIAL (Type or Print | DATE SIGNED |

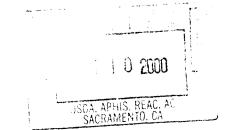
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Annual Report Site Listing:

Customer ID and Site Address:

Cust ID: 1208

Sw Fisheries Science Cntr Lab 2570 Dole Street Honolulu, HI 96822 2396 County: Honolulu Telephone (808)943-1221





U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE Southwest Fisheries Science Center Honolulu Laboratory 2570 Dole St. • Honolulu, Hawaii 96822-2396 (808)983-5300 • Fax: (808)983-2902

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October 03, 2000

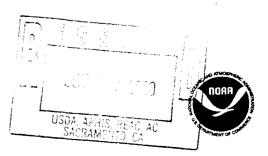
Robert M. Gibbens Regional Director—Animal Care U.S. Department of Agriculture Animal and Plant Health Inspection Service 9580 Micron Avenue, Suite J Sacramento, California 95827

Dear Dr. Gibbens:

Enclosed per your request is a completed APHIS form 7023. Please note that the Honolulu Laboratory of the National Marine Fisheries Service no longer maintains captive animals for research purposes. In the past, our facility held several Hawaiian monk seals, but in 1998 all of our captive seals were transferred to other permit holders: Sea Life Park, Hawaii; Waikiki Aquarium, and Sea World, Inc. At present, we have no plans to hold for research purposes seals or any other animals covered by the Animal Welfare Act.

Sincerely,

Enclosure



| 317 | |
|---|---|
| See attached form for additional information | Interagency Report Control No.: |
| 1. CERTIFICATE NUMBER: 84-R-0056 CUSTOMER NUMBER: 1765 | FORM APPROVED OMB NO. 0579-0036 |
| Univera Pharmaceuticals, Inc. 100 Technology Drive, Ste. 160 | Telephone: (303)438-8666 |
| Broomfield, CO 80021 | () |
| | See attached form for additional information 1. CERTIFICATE NUMBER: 84-R-0056 CUSTOMER NUMBER: 1765 Univera Pharmaceuticals, Inc. 100 Technology Drive, Ste. 160 |

FACILITY LOCATIONS (Sites) - See Atached Listing

| REPORT OF ANIMALS | USED BY OR UNDER | CONTROL OF RESEA | RCH FACILITY (Attach additio | nal 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 y | 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, a | 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 | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
| 4. Dogs | | | | | |
| 5. Cats | | | · · · · · · · · · · · · · · · · · · · | | |
| 6. Guinea Pigs | g | 3 | 2 | 42 | 47 |
| 7. Hamsters | | | | <i>, , , , , , , , , , , , , , , , , , , </i> | |
| 8. Rabbits | | | | | |
| 9. Non-human Primate | | | | | |
| 0. Sheep | | | 1 | | |
| 1. Pigs | | | · · · · · · · · · · · · · · · · · · · | | |
| 2. Other Farm Animals | | | | | |
| 3. Other Animals | · · · · · · · · · · · · · · · · · · · | | | | |
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| ASSURANCE STATEMENT | 5 | | | | |

1) Professionally acceptable standards governing the care, treatment, and use of animats, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and follo 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 ca

| | TIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL hief Executive Officer or Legally Responsible Institutional Official) | |
|----------|---|-------------|
| | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL <u>LType or Print</u> | DATE SIGNED |
| (AUG 91) | | |

Annual Report Site Listing:

Customer ID and Site Address:

Cust ID: 1765

100 Technology Drive, Ste. 160 Broomfield, CO 80021 County: Boulder

Telephone (303)438-8666 · · · · · · · · · ·



Optional Column E Explanation Form

VIC IN UII

10-16-00

This form is intended as an aid to completing the Column E explanation. It is <u>not</u> 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: Cert. #84-R-0056 Cust.#1765

2. Number______ 42 _____ of animals used in this study.

3. Species (common name) Guinea Pig of animals used in this study.

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

Two studies with similar procedures;n=16(Modified Draze Test), n=26 (anti-inflammatory qualities of compounds against Sodium Lauryl Sulfate induced inflammation) An occlusive patch is applied to dorsal surface of the G.Pig and held in place w/surgical tape around the G. Pigs midsection. This does not produce pain but will result in enough stress to the point that their water consumption is markedly decreased. The wrap is in place for 24 hours only.

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 question 6 below)

I do not know how to alleviate the disposition these animals develop from this manipulation. An explanation of the procedure derived water restriction is in the protocols for these studies.

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 | FDA | CFR62 | FR 61515 | · · · · · |
|--------|-----|---------------------|----------|---|
| | | (Skin irritancy tes | sting) | |
| | | | | 000 I 0 2000 |
| | | | | USDA, APHIP, NEAC, AC SACRAMENTO, CA |

| and the second s | | | | 21 | | | |
|--|---|--|---|--|---|---|--|
| This report is required by (can | aw (7 USC 2143). Failure | to report according to th | e regulations | | altached form for ional information | Interagency R | eport Control No.; |
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | 3 | · | 1. CERTIFICATE NUMBER: 93-R-0029 FOR CUSTOMER NUMBER: 1180 | | |
| ANNUAL | - REP ORT OF R (TYPE OR I | | ILITY | M.S. R2-I | view Avenue | Telephon (650)8 | e: 55-6160 |
| REPORTING FACILITY | List all locations where anim | als were housed or used in | actual research, testi | ng, or experimentation, or held | for these purposes. Altach add | litional sheets if ne | cessary) |
| Roche Biose | | | | Sites) - See Atached Listing | | | |
| REPORT OF ANIMALS | USED BY OR UNDER | | - | | necessary or use APHIS F | form 7023A) | |
| 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 y | 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 an upon which experiments, research, sur lests were con involving accompanying distress to the and for which appropriate an | imals E. Numbe experi teaching, conduc rgery, or to the a nducted anesth have a g pain or interpri s animals surger produc | r of animals upon which leachin nents, research, surgery or tests led involving accompanying pa- nimals and for which the use of stic, analgesic, or tranquilizing d dversely affected the procedurar station of the teaching, research r, or tests. (An explanation of th ing pain or distress in these anin a such drugs were not used mus | G, I ware appropriate rugs would s, results, or , experiments, e procedures nats and the | F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E) |
| Dogs | 106 | 230 | 104 | | 43 | | 377 |
| Cats | 8 | 0 | 0 | | 0 | | 0 |
| Guinea Pigs | 20 | 51 | 60 | | 206 | | 317 |
| Hamsters | 0 | 0 | 0 | | 0 | ···· | 0 |
| Rabbits | 1 | 23 | 45 | | 0 | | 68 |
| Non-human Primate | 62 | 152 | 47 | · | 12 | | 211 |
| Sheep | . <u> </u> | 0 | 0 | | 0 | | 0 |
| Pigs | 2 | 3 | 12 | | 3 | | 18 |
| . Other Farm Animals | 0 | 0 | 0 | | 0 | | 0 |
| Other Animals | 0 | 0 | 0 | ····· | · · · · · · · · · · · · · · · · · · · | | 0 |
| | ! ! ! | · · · · · · · · · · · · · · · · · · · | | | | | |
| SURANCE STATEMENT | <u>.</u> S | | l | | ····· | - <u></u> | l <u></u> |
| Professionally accept actual research, lead Each principal investigator This facility is adher investigator and app IACUC-approved exception | plable standards governin ching, testing, surgery, or itigator has considered alt ing to the standards and i proved by the institutional ceptions, this summary in | experimentation were foll ternatives to painful proce regulations under the Act, Animal Care and Use Cor cludes a brief explanation cility has appropriate aut | owed by this resear idures. and it has required nmittee (IACUC). A s of the exceptions, i nority to ensure the | ch facility. that exceptions to the stand summary of all such exceptions as well as the species and nu | nary care and to oversee the a | fied and explaine report. In addition | d by the principal to identifying the |
| _ | | | | y Responsible Institution | | | |
| SIGN | | •• <u>••</u> • | NAME & T | ITLE OF C.E.O. OR INSTITUT | ONAL OFFICIAL (Type or Pri | nt | DATE SIGNED |

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ROCHE BIOSCIENCE Registration No. 93-R-0029 Explanation for Category E, APHIS Form 7023 01 Oct 99 – 30 Sep 00

Roche Bioscience animal research and testing protocols are designed, insofar as is possible, to eliminate pain and distress. In some cases, however, the use of anesthetics, analgesics, or tranquilizing drugs would impair or invalidate test results.

166 guinea pigs may have experienced pain or distress when they were used to evaluate new drugs for the treatment of allergic response in asthmatic subjects. In order to induce an allergic response, animals were first sensitized via intraperitoneal injection of an antigen and subsequently exposed to an aerosol dose of the antigen adequate to elicit an allergic/anaphylactic response. All animals were observed closely for severe changes in breathing patterns during aerosol challenge. Any animals that experienced acute respiratory distress were immediately taken out of the aerosol chamber and removed from the experiment. Administration of pain relieving drugs for this experiment was not considered because it may have altered the response to allergen challenge, thus reducing similarities between this model and human asthma.

Forty guinea pigs may have experienced distress as a result of participating in the forced swim test protocol to assess the activity of anti-depressant agents in animals. The forced swim test is considered a standard model for evaluating anti-depressant agents. In this study, the animals were immersed in individual, non-escapable cylinders filled 30cm deep with water at 23-25°C. After the first few minutes of swimming, the animals become immobile, moving just enough to keep their heads above water. This period of immobility has been suggested to mimic a state of behavioral despair or depression and reversal of this immobility response can be used to test whether or not a drug has anti-depressant properties. The animals only spend 5 minutes in the test cylinders and are constantly monitored throughout. None of the 40 animals that participated in this experiment had to be removed from the cylinder due to a failure to float or swim. Since the intent of the study was to evaluate anti-depressant agents, analgesics, tranquilizers, or sedatives could not be administered because they could potentially mask the response we were trying to elicit, making it impossible to evaluate the investigational compound being tested.

References:

- Becker LA, Hennessy MB. Further characterization of the behavioral effects of peripherally administered corticotropin-releasing factor in guinea pigs. Pharmacol Biochem Behav, 44:925-930, 1993.
- 2. Rylands JM. A swimming test for assessing effects of drugs upon motor performance in the guinea pig (*Cavia porcellus*). Neuropharmacology, 21:1181-1185, 1982.
- 3. Porsolt RD, Bertin A, Jalfre M. Behavioral despair in mice: a primary screening test for antidepressants. Arch Int Pharacodyn Ther, 229(2):327-336, 1977.

Twenty-nine dogs and 2 primates may have experienced pain or distress when they were used to evaluate the toxicity potential of new drugs as required by regulatory agencies (i.e., FDA). It was not the intent of the studies to produce pain and pain relieving drugs were not implemented due to interference they would cause with the study data. For decades, the FDA has required the use of one rodent and one nonrodent species to prove drug safety. Recent references include the Federal Register, August 26, 1996, Vol. 61, #166, pg. 43933 to 43935, and Center for Drug Evaluation and Research Guidance for Industry: M3 Nonclinical Safety Studies for the Conduct of Human Clinical Trials for Pharmaceuticals, July 1997. Dogs and nonhuman primates are the industry standards for nonrodent, mammalian species.



Three pigs, 14 dogs, and 10 nonhuman primates may have experienced pain or distress on the IACUC protocols "Urethral Obstruction Model in Conscious Pigs", Urethral Obstruction Model in Conscious Dogs", and "Urethral Obstruction Model in Conscious Cynomolgus Monkeys", respectively. Chronic urinary bladder obstruction in humans is due primarily to an enlarged prostate. The purpose of these experimental protocols was to study the effects of urethral obstruction and develop drugs to prevent symptoms related to involuntary bladder contractions that are caused by a supersensitivity of nerves innervating the bladder. Because this model induces a state of hyperactivity in the bladder, it is also useful for evaluating drugs for the treatment of both stress and urge incontinence as well. In order to mimic the chronic human condition, an inflatable vascular occluder is surgically placed around the urethra to allow the researcher some control over the level of obstruction produced. Telemetry devices were surgically placed into the bladder to monitor bladder activities during cystometrograms. Animals were administered post-surgical analgesics and were closely monitored by the research and veterinary staff. Inflammatory responses to the intravesical cannula and the supersensitivity that develops as the result of urine retention and increased voiding pressures will result in an overactive bladder, which is the goal of the study. Various investigational drugs were administered to evaluate their effect on urinating patterns following the direct infusion of saline into the urinary bladder via a vascular access port in either conscious or sedated animals. Animals may have experienced discomfort and/or pain as a result of bladder hyperactivity, which can lead to urgency and increased frequency of urination. Sedation was provided to animals that demonstrated more pronounced straining. Animals were euthanized if severe complications arose.

References:

- 1. Speakman MJ, et al. Bladder outflow obstruction –cause of denervation supersensitivity. The Journal of Urology, 138:1461-1466, 1987.
- 2. Jorgensen TM, et al. Experimental bladder hyperreflexia in pigs. Urological Research, 11:239-240, 1983.
- 3. Sibley GNA. An experimental model of detrusor instability in the obstructed pig. British Journal of Urology, 57:292-298, 1985.

IACUC-Approved Deviations from USDA Standards

Twenty-five dogs were excluded from regular exercise periods for 4-21 days following administration of radioactively-labeled compounds as part of a metabolism study. They were confined to individual metabolism cages to allow collection of excreta. The cage size conformed to USDA standards. During this period, they all received extra attention and human interaction. They were housed in a room with other dogs on the study and were therefore in visual, olfactory, and auditory contact.



| This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cause and desist and to be subject to penalties as provided for in Section 21 | | | See reverse side for 150. additional information. | | | interagency Report Control No 0180-DOA-AN | | |
|--|--|---|--|---|--|--|--|---|
| UNITED ST ANIMAL AN | ATES DEPARTMENT OF A D PLANT HEALTH INSPEC | AGRICULTURE CTION SERVICE | | REGISTRATI 84-R-0003 | ON NO. CUST | 1195 | FORM APPROVED OMB NO. 0578-0036 | |
| ANNUAL REP | (TYPE OR PRIN | T) · | 114 | include Zip C | COLORAD 203 ADMIN FORT COL (303) 491-7 | O STATE UNIVI IISTRATION LINS, CO 8052 364 | ERSITY . 3 | |
| REPORTING FACILITY (List a sheets if necessary.) | all locations where animals | | | | or experimentation, or l | held for these purp | oses. Attach additi | onal |
| See Attached Listing | | F | | IS(sites) | | | | |
| EPORT OF ANIMALS USED BY | | F RESEARCH FACILITY | (Attach additional si | neets il neces | sary or use APHIS FOI | RM 7023A) | | |
| A. Animais Covered By The Animai Welfare Regulations | B. Number of animals being bred, conditioned, or held for use in leaching, testing, experiments, research, or surgery but not yet used for such purposes. | C. Number of animals upon which teaching, research, experiments, or leasts were conducted Involving no peln, distress, or use of paln- relieving drugs. | D. Number of anii which experim teaching, resa surgery, or las conducted invi accompanying distress to the and for which i enesthetic, an tranguilizing di used. | enta, arch, is were siving pain or enimais appropriate algesic, or | to the enimels en enesthetic, analge have adversely al interpretation of the experiments, surg the procedures p | earch, surgery or te ng accompanying d for which the use sic, or tranquilizing flected the procedu he teaching, rasaa jery, or tests. (An roducing pain or dis easons such drugs | sta were pain or distress of appropriate g drugs would ares, results, or rch, <i>asplanation</i> of stress in these | F. TOTAL NO. OF ANIMALS (Cois. C + D + E) |
| 4. Dogs | | 327 | 205 | | | | | 532 |
| 5. Cats | 49 | 126 | 44 | | | | | 170 |
| 5. Guinea Pigs | | 867 | | | | 72 | | 939 |
| 7. Hamsters | | 25 | 87 | | | | | 112 |
| B. Rabbits | | 181 | 166 | | | | | 347 |
| 9. Non-Human Primates | | | ļ | | | | | |
| 10. Sheep | | 57 | 281 | | | | | 338 |
| 11. Plgs | | 49 | 337 | - | | | | 386 |
| 12. Other Farm Animals | | | | | | | | |
| Cattle | | 586 | | | | | | 586 |
| 13. Other Animals | | | | | | | | |
| Bats | | 2298 | 65 | | † | 7 | | 2370 |
| Coyote | | 3 | | | | | | |
| Ferret | | 18 | | | _ | 11 | | 29 |
| ASSURANCE STATEMENTS | | | | | | | | _ |
| 2) Each principal investigati 3) This facility is adhering to principal Investigator and addition to identifying the 4) The attanding veterinaria | arch, teaching, testing, sun or has considered alternativ o the standards and regulat d approved by the institution DCUC-approved exception an for this research facility h | gery, or experimentation v res to painful procedures, ions under the Act, and it rel Animal Care and Use i rus, this summary includes | vere followed by this has required that ex Committee (IACUC). s a brief explanation | research facil ceptions to the A summary of of the exception | ity. e standards and regula of all the exceptions in ons, as well as the spe | tions be specified (= attached to this cles and number o | and explained by th sonual report. In I animals affected. | |
| aspects of animal care a | | FICATION BY HEA | | RESEARC | | | | |
| | (Chie | f Executive Office | r or Legally Re | sponsible | Institutional off | iciai) | | |

| I certify that the al | pove is true, correct, and complete (7 U.S.C. Section 2143) | |
|--|--|-------------------------|
| SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED 11/21/03 |

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APHIS FORM 7023 (AUG 91)

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(Replaces VS FORM 18-23 (Oct 88), which is obsolete

PART 1 - HEADQUARTERS

NOV 2 5 2003

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| This report is required by law (result in an order to cease and | 7 USC 2143). Failure to r desist and to be subject | eport according to the re- to pensities as provided (| pulations can for in Section 21 | 150. | See reverse side for additional information. | Interagency R/ 0180-DOA-AN | aport Control No |
|---|---|--|--|---------------------------|---|---|---|
| UNITED STA ANIMAL AND | TES DEPARTMENT OF | AGRICULTURE CTION SERVICE | | 1. REGISTRAT 84-R-0003 | 1195 | OMB NO | PPROVED . 0579-0038 |
| | ESEARCH FA (TYPE OR PRIN | CILITY 7) | | include Zip C | COLORADO STATE UN 203 ADMINISTRATION FORT COLLINS, CO 80 (303) 491-7364 | IVERSITY | tered with USDA, |
| REPORT OF ANIMALS USED BY | | | | | | | |
| A. Animais Covered By The Animai Welfars Regulations | B. Number of enimals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes. | C. Number of snimals upon which leaching, research, experiments, or lests wore conducted involving no pain, distress, or use of pain- relieving drugs. | which exp leaching, sungery, c conducte Bocompai distress is and for wi anesthesi | | E. Number of animals upon which to experiments, raseerch, surgery o conducted involving accompanyi to the animals and for which the anesthetic, analgesic, or ranquik have adversely affected the pro- interpretation of the teaching, res- experiments, surgery, or tests. (the procedures producing pain ou animals and the reasons such of must be ettached to this report) | r tests were ng pain or distress use of appropriate drug drugs would edures, results, or learch, An applemetion of distress in these | F. TOTAL NO, OF ANIMALS (Cols. C + O + E) |
| Fox | | 1 | | | | | 1 |
| Ground Squirr | el | 20 | | ۰. | | | 20 |
| Horse | | 535 | | 47 | 13 | | <u>5</u> 95 |
| Lemning | | <u>10 (</u> | | | | | 10 |
| Marmot | | | | 20 | | | <u>20</u> |
| Prarie Dog | | 10 | | | | | 10 |
| Volcs | | 57 | | | | | 57 |
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| ASSURANCE STATEMENTS | | tt | | H | e of anesthetic, analoesic, and transvi | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgasic, and tranquisiting drugs, prior to, durin and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

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| (Chief Executiv | BY HEADQUARTERS RESEARCH FACILITY OFFICIAL e Officer or Legally Responsible Institutional official) e above is true, correct, and complete (7 U.S.C. Section 2143) | |
|---|--|------------------|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | 11/21/03 |
| APHIS FORM 70234 (Reptaces VS FORM 18-23 (Oct 8 (AUG 91) | s), which is obsolete PART | 1 - HEADQUARTERS |

Colorado State University 203 Administration Ft. Collins, CO 80523

SUMMARY OF EXCEPTIONS TO THE 2003 USDA ANNUAL REPORT

Bats: Bats were used on a rabies vaccine study. Seven bats were used as vaccine controls and therefore did not receive the protective experimental vaccine. These bats had to be used to confirm the virulence of the challenge virus and therefore had to develop clinical signs of rabies infection. Clinical endpoints for euthanasia were defined and bats were humanely euthanized early in the course of disease and death was not an endpoint.

Ferrets: Eleven ferrets were used in Chronic Wasting Disease (CWD) pathogenesis studies. The animals had to develop clinical signs of infection in order to determine if they were an acceptable animal model for this disease and to study the pathogenesis. Clinical endpoints for euthanasia were defined and ferrets were humanely euthanized and death was not an endpoint.

Guinea Pigs: Seventy two guinea pigs were used in Mycobacterium vaccine and drug therapy studies. These guinea pigs were challenged with live Mycobacaterium tuberculosis and most were used as vaccine or drug therapy controls to confirm the virulence of the challenge Mycobacterium. These guinea pigs developed clinical signs of pulmonary tuberculosis infection and could not be treated. However, clinical endpoints for euthanasia were defined and guinea pigs were humanely euthanized when they demonstrated these clinical endpoints and death was not used as an endpoint.

Horses: Seven horses were used in Venezuelan Equine Encephalitis vaccine studies. These horses were used as vaccine controls and therefore did not receive the protective experimental vaccine. These horses had to be used to confirm the virulence of the challenge virus and therefore had to develop clinical signs of VEE infection. Clinical endpoints for euthanasia were defined and horses were humanely euthanized early in the course of disease and death was not an endpoint.

Six horses were infected with chimeric viruses on a viral pathogenesis study. The animals had to develop clinical signs of infection in order to study the pathogenesis. Clinical endpoints for euthanasia were defined and horses were humanely euthanized early in the course of disease and death was not an endpoint.

| This report is required by law (7 USC 2143). Failure to report according to the regulations can res ult in an cirger to cease and desist and to be subject to penalties as provided for in Section 21! | See attached form for additional information. | Interagency Report Control No .: |
|---|--|---|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 93-R-0015 CUSTOMER NUMBER: 1192 | FORM APPROVED OMB NO. 0579-0036 M. Jurients |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | The Scripps Research Institute 10550 N. Torrey Pines Road, TPC 8 La Jolla, CA 92037 Telephone: (858) 784-2937 | 2" by K. Dockard 02/02/05 m |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, test | ting, or experimentation, or held for these purposes. Attach addition | nal sheets if necessary) |

FACILITY LOCATIONS (Sites) - See Atached Listing

| A. Animais Covered By The Animai Welfare Regulations | B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. | C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs. | D. Number of animals upon which experiments, teaching, research, surgery, or tests ware conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, anaigeaic, 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 wh the use of appropriate anesthetic, analgesic, or tranquiliz 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 reasc such drugs were not used must be attached to this report.) | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
|---|--|--|--|--|--|
| 4. Dogs | 0 | 0 | 0 | 0 | 0 |
| 5. Cats | 0 | 0 | 3 | 0 | 3 |
| 6. Guinea Pigs | 0 | 0 | 0 | 0 | 0 |
| 7. Hamsters | 0 | 0 | 6 | 0 | 6 |
| 3. Rabbits | 0 | - 0 | 415 | 0 | 415 |
| 9. Non-human Primates | 0 | 0 | 90 | 5 | 95 [.] |
| 0. Sheep | 0 | 0 | 0 | 0 | 0 |
| 1. Pigs | 0 | . 0 | 0 | 0 | 0 |
| 2. Other Farm Animals | | | | | |
| Goats | 3 | 0 | 0 | 0 | 20 |
| 3. Other Animals | | | | | |
| Naked Mole Rats | 0 | 0 | 31 | 0 | 31 |
| | | | | | |

 Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese: teaching, testing, surgery, or experimentation were followed by this research facility.

2) Each principal investigator has considered alternatives to painful procedures.

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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.

| | CERTIFICAT (Chief Exe | ION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL ocutive Officer or Legally Responsible Institutional Official) | |
|------------|--------------------------|---|-------------|
| - | JAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| (AUG 91) | -23 (OCT 88), which is c | obsolete.) | |

DEC - 1 2004

Explanation of the Five Rhesus Macaques Listed Under Column E

Certificate Number 93-R-0015

Four of the five animals reported in Column E were on food restriction in accordance with approved protocols. Upon reaching the specified criteria for early removal from experimental study, the animals were removed from the study and provided full feed. The fifth animal reported in Column E died following unexpected reaction to administration of a compound.

| This report is required by law (7 USC 2143). Fairure to report a: the regulations can result in an order to cease and desist and to be subject to penalti provided for in Section 21: | See attan for additiona ution. | Interagency Report Control No.: |
|--|--|------------------------------------|
| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 34-R-0031 CUSTOMER NUMBER: 696 | FORM APPROVED OMB NO. 0579-0036 |
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | M P I Research Inc 54943 N. Main Street Mattawan, MI 49071 | DV) B 2104 |
| | Telephone: (269)-668-3336 | |
| 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, to | | |

FACILITY LOCATIONS (Sites) - See Atached Listing

| B. Number of enimal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. | C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs. | D. Number of animals upon which expariments, teaching, research, surgery, or tests ware conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or trangullizing drugs ware used. | E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompenying pain or distress to the animels and for wh the use of appropriate anesthetic, analgesic, or tranquillz 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 animels and the reasy such drugs were not used must be attached to this report | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
|--|---|---|---|--|
| 264 | 3,073 | 311 | 0 | 3,384 |
| 33 | 181 | 0 | 0 | 181 |
| 22 | 100 | 0 | 40 | 140 |
| 0 | 0 | 60 | 0 | 60 |
| 87 | 1,420 | 251 | 0 | 1.671 |
| 57 | 1,161 | 144 | 11 | 1,305 % |
| 0 | 0 | 0 | 0 | 0 |
| 35 | 399 | 617 | 0 | 1,016 |
| 0 | 0 | 0 | 0 | 0 |
| | | | | |
| 10 | 36 | 0 | 0 | 36 |
| | being bred, conditioned, or heid for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. 264 33 22 0 87 57 0 35 0 | being bred, conditioned, or held for use in teaching, testing, experiments, or surgery but not ye used for such purposes.animals upon which teaching, research, or surgery but not ye involving no pain, distress, or use or pain-relieving drugs.2643,073331812210000871,420571,161003539900 | being bred, conditioned, or heid for use in teaching, testing, research, or surgery but not ye used for such purposes.animals upon which teaching, research, or experiments, or tests were conducted distress, or use or pain-relieving drugs.which teaching, research, surgery, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.which teaching, research, surgery, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.which teaching, research, surgery, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.which teaching, research, surgery, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.which teaching, research, surgery, or tests were conducted involving pain or distress, or use or pain-relieving drugs.2643,0733113318102210000060871,420251571,16114400035399617000 | being bred. ⁷ enimals upon which teaching, teaching, testing, experiments, research, or surgery, or tests were conducted involving experiments, research, or surgery, or tests were conducted involving experiments, research, or surgery or tests were conducted involving succompanying pain or distress to the enimels and for which surgery, or tests were conducted involving surgery or tests were conducted involving succompanying pain or distress to the enimels and for which experiments, research, or surgery or tests were conducted involving succompanying pain or distress, or use or pain-relieving drugs. Image: Contrangult tests were conducted involving succompanying pain or distress, or use or pain-relieving drugs. 264 3, 073 311 0 33 181 0 0 0 0 60 0 87 1, 420 251 0 57 1, 161 144 11 0 0 0 0 35 399 617 0 0 0 0 0 |

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese leaching, testing, surgery, or experimentation were followed by this research facility.

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

| CICNATURE OF OF O | | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
|-------------------------------|---|--|-------------|
| | | | 11/17/24 |
| APHIS FORM 7023 (AUG 91) | (Replaces VS FORM 18-23 (OCT 88), which is obsolete.) | | |

Rin

Registration Number: 34-R-0031

STUDY 1

- Number of Animals: 40
- Species : Guinea Pig
- Explanation of Procedure Producing Pain and/or Distress

Skin sensitization studies were conducted to determine the potential for the test articles to produce allergy in human beings. The Maximization method used requires intradermal injection of Freund's Complete Adjuvant that typically produces localized skin ulcers at the injection site. The animals remained active, alert, and good appetites with no overt signs of pain.

Scientific Justification

The nature of these test articles required the use of the Maximization method. The EPA and FDA requires skin sensitization testing.

• Regulations

FDA Guidelines for Preclinical Toxicity Testing of Investigational Drugs for Human Use as well as generally accepted procedures for the testing of pharmaceutical compounds.

The United States Environmental Protection Agency (EPA), Office of Prevention, Pesticides and Toxic Substances, OPPTS Series 870-2600, 1998.

The Organization for Economic Cooperation and Development (OECD). Guideline 406, Skin Sensitization.

Registration Number: 34-R-0031

STUDY 2

- Number of Animals: 1
- Species : Monkey
- Explanation of Procedure Producing Pain and/or Distress

The test and control articles were administered orally and intravenously. All personnel administering the materials were thoroughly trained to avoid potential injury to the animals. Specifically, animals were closely monitored by technicians and veterinarians for general signs of toxicity, inappetance, and stool. (General clinical findings were considered toxicity findings.)

Scientific Justification

The FDA, Center for Veterinary Medicine (CVM) requires this testing.

The routes of administration were considered the most appropriate by the Sponsor and FDA to meet the objectives of this safety evaluation study.

Regulations

Food and Drug Administration (FDA), 1998, 21 CFR part 58.

Registration Number: 34-R-0031

STUDY 3

- Number of Animals: 2
- Species : Monkey
- Explanation of Procedure Producing Pain and/or Distress

The test and control articles were administered intravenous infusion. All personnel administering the materials were thoroughly trained to avoid potential injury to the animals. Specifically, animals were closely monitored by technicians and veterinarians for general signs of toxicity, inappetance, and stool. (General clinical findings were considered toxicity findings).

Scientific Justification

The FDA requires this testing.

The route of administration was considered the most appropriate by the Sponsor and FDA to meet the objectives of this safety evaluation study. This was an Up and Down Intravenous Toxicity Study to estimate the Maximum Tolerated Dose (MTD).

• Regulations

International Conference on Harmonization (ICH) Harmonized Tripartite Guidelines, and generally accepted procedures for the testing of pharmaceutical compounds, FDA 21 CFR part 58.

Registration Number: 34-R-0031

STUDY 4

- Number of Animals: 8
- Species : Monkey
- Explanation of Procedure Producing Pain and/or Distress

The test and control articles were administered orally and intravenously. All personnel administering the materials were thoroughly trained to avoid potential injury to the animals. Specifically, animals were closely monitored by technicians and veterinarians for general signs of toxicity, inappetance, and stool. (General clinical findings were considered toxicity findings).

Scientific Justification

The FDA may require this testing.

The route of administration was considered the most appropriate by the Sponsor and FDA to meet the objectives of this efficacy study in a peripheral neuropathy model.

Regulations

International Conference on Harmonization (ICH) Harmonized Tripartite Guidelines, and generally accepted procedures for the testing of pharmaceutical compounds.

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Addendum, 2004 Annual Report

Column E. Explanation Registration Number <u>34-R-0031</u>

Reason(s) why anesthetics, analgesics, or tranquilizing drugs were not used to relieve the pain or distress:

Study 1 - Forty Guinea Pigs

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The Guinea Pig Maximization Test to determine skin sensitization was used to identify and appraise the contact sensitization potential of a test article. Since the test requires the use of adjuvant, these animals were placed in Column E, even though no apparent signs of pain were noted. The use of any other drugs to alleviate pain, if present, could interfere, interact, or block the sensitization (allergic) response of the test article being investigated, thus confounding accurate interpretation.

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Addendum, 2004 Annual Report

Column E. Explanation Registration Number <u>34-R-0031</u>

Study 2 - One Monkey

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This animal was not considered or observed to be in pain or distress during the toxicity testing, but it was determined at scheduled necropsy that there had been a potential gavage accident, and therefore was placed in Column E. If it had been known that there was a health concern, the animal would have received veterinary treatment and/or euthanatized with pentobarbital euthanasia solution.

Addendum, 2004 Annual Report

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MAR 0 7 2005

Column E. Explanation Registration Number <u>34-R-0031</u>

Study 3 - Two Monkeys

These two monkeys died suddenly within hours of intravenous dosing of the test article, without any noted observations of pain. Both animals died while preparations were in progress to euthanatize them with pentobarbital euthanasia solution. Since they had not been relieved of any potential pain or distress prior to death, they were placed in Column E. The use of pain relieving drugs prior to euthanasia would affect the assessment of the drug being tested for toxicity.

MAR (17 2005

Addendum, 2004 Annual Report

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Column E. Explanation Registration Number <u>34-R-0031</u>

Study 4 - Eight Monkeys

This peripheral neuropathy pain model is used to evaluate test articles. The model was designed to assess the effects of the test article on the peripheral neuropathy produced by surgical ligation of the spinal nerve. The neuropathy produced affected only the ventral surface of the foot, as well as the back of the calf and thigh on the surgical side. The neuropathy was defined as a sensitivity to touch in these areas. During the course of the study, analgesics could not be administered as both analgesic and anti-inflammatory test compounds were being assessed weekly. Administration of analgesics would have affected the assessment of the compounds being tested and given a false positive, or suppressed the model completely.

| This report is required by law (7 result in _c an order to chase and | | | | | ragency Report Control N., ID-DOA-AN |
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| | ES DEPARTMENT OF A PLANT HEALTH INSPEC | | 1. REGISTRATIO | N NO. | FORM APPROVED |
| ANNUAL REPOR | RT OF RESEAR PE OR PRINT) | | include Zip Co | 32-R-0007 Curet Id 779 | as registered with USDA ¹ |
| 3. REPORTING FACILITY (List all t sheets if necessary.) | ocations where animals | were housed or used i | n actual research, testing, tea | ck . | ditional |
| | | . FAC | CILITY LOCATIONS (Siles) | · · · · · · · · · · · · · · · · · · · | |
| <u>See attachment.</u> | | | t | | |
| | | | | | |
| REPORT OF ANIMALS USED BY O | A UNDER CONTROL OF | RESEARCH FACILITY | l (Attuch adiditional shoets if n | BCBSSERY OF USB 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 feaching, 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 v conducted involving accompanying pain to the animals and for which the use of a anesthetic, analgesic, or tranquilizing dr have adversely affected the procedures, interpretation of the teaching, research, experiments, surgery, or tests. (An expla the procedures producing pain or distre animals and the reasons such drugs we must be attached to this report). | vere or distress appropriate results, or anation of ssa in these (Cols. C + ssa in these (Cols. C + Cols. C + C + C + C + C + C + C + C + C + C + |
| 4. Dogs | 0 | 120 | 250 | 9 | .379 |
| 5. Cats | 0 | 53 | 6 | 0 | 59 |
| 6. Guinea Pigs | 0 | 12 | 341 | 0 | 353 |
| 7. Hamsters | 0 | 6 | 267 | 0 | 273 |
| 8. Rabbits | 0 | 15 | 12 | 0 | 27 |
| 9. Non-human Primates | 0 | 0 | 0 | 0 | 0 |
| 10. Sheep | 0 | 4 | 23 | 0 | 27 |
| 11. Pigs | 0 | 8 | 100 | 0 | 108 |
| 12. Other Farm Animals | | | · · · | • | |
| 13. Other Animals | | | | | |
| Gerbils | 0 | 0 | 43 | 0 | 43 |
| Kangaroo Rats | Q | 325 | 0 | 0 | 325 |
| Voles Assurance statements | 0 | 6 | 0 | 0 | 6 |

 Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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.

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| IGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
|--|--|-------------|
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PART 1 - HEADOUARDERS

| This report is required by law (7 USC 2143). Failure to report according to the requilations can result in an order to cease and desist and to be subject to penalties as provided on in Section 2150. | | | | See reverse side for additional information | Interagency Rep 0180-DOA-AN | ort Controt No | | |
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| | TES DEPARTMENT OF A PLANT HEALTH INSPEC | | 1. 1. | 1. REGISTRATION | 1 NO. | FORM APP OMB NO 0 | | |
| ANNUAL REPOR | | | - | 2. HEADOUARTE include Zip Coc | RS RESEARCH FACILITY (Name and A 32-R-0007. Cust Id 779 | ddress, as registered | ed with USDA | |
| (T) | YPE OR PRINT) | | | | PURDUE UNIVERSITY 170 YOUNG GRADUATE HOUSE WEST LAFAYETTE, IN 47906 | TE HOUSE | | |
| 3. REPORTING FACILITY (List all sheets if necessary.) | locations where animals | were housed or used | in actual reso | earch, lesting, leac | | | ditional | |
| Sifers in necessary.j | | FAI | | TIONS (Siles) | | | | |
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| | · · · · · · · · · · · · · · · · · · · | | | | cessary or use APHIS FORM 7023A) | | | |
| A Animals Covered By The Animal Wellare 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 leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs. | which ex teaching surgery, conduct accomp distress and for anesthel | of animals upon speriments, g, research, or tests were ed involving anying pain or to the animals which appropriate lic, analgesic, or zing drugs were | E. Number of animals upon which tr experiments, research, surgery o conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely allected the proc interpretation of the teaching, re experiments, surgery, or tests. (/ the procedures producing pain of animals and the reasons such di must be attached to this report). | r tests were ing pain or distress use of appropriate using drugs would edures, results, or search, An explanation of or distress in these | F. TOTAL NO. OF ANIMALS {Cols. C + D + E} | |
| Squirrels | 0 | 84 | 0 | | 0 | | 84 | |
| Weasels | 0 | 9 | | | 0 | | 9 | |
| Chipmunks | 0 | 16 | 0 | | 0 | | 16 | |
| Shrews | 0 | 1 | 0 | | 0 | | 1 | |
| | 0 | 6 | | | 0 | | 6 | |
| Deer Mice | 0 | 4 | 0 | | 0 | | 4 | |
| Cow | 0 | 6 | 7 | | 0 | | 13 | |
| Goat | 0 | 12 | 0 | | 0 | | 12 | |
| Horse | 0 | 30 | 35 | | 0 | | 65 | |
| Llama | 0 | 0 | 2 | | 0 | | 2 | |
| | | | | | | | | |
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| SURANCE STATEMENTS | | | | | | | | |

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| (Chief Executive | Y ILEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) e above is true, correct, and complete (7 USC Section 2143) | |
|--|--|-------------|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) | DATE SIGNED |
| | | 11/29/00 |
| APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 8 (AUG 91) | 8), which is obsolute) | |

PART 1 HEADQUARTERS

Column E Explanation Form

- 1. Registration Number: 32-R-0007
- 2. Number of animals used in this study: 10 (5 Column E)
- 3. Species of animals used in this study: Dogs

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

Dogs are anesthetized with a general anesthetic. A corneal ulcer is created in the cornea of one eye of each dog using a corneal trephine. The defect created is 7 mm in diameter. The superficial layer of the cornea (0.1 - 0.2 mm) is removed to create a standardized superficial ulcer. All dogs (five control group dogs and five treatment group dogs) receive a topical treatment of bacitracin-neomycin-gramicidin solution every six hours. Five of the ten dogs (treatment group) also receive topical treatment with morphine sulfate every six hours. Dogs are monitored daily for healing of the ulcer and comfort level (squinting, tearing, redness). Ulcers are expected to heal in three to five days. The veterinary ophthalmologist rated the discomfort as moderate and discomfort would diminish each day as healing occurs. Dogs are housed in the Veterinary Teaching Hospital during the healing period.

5. Provide scientific justification why pain and or / or distress could not be relieved. State methods or means used to determine that pain and / or distress relief would interfere with test results:

The objective of the study is to determine if the use of topically applied morphine sulfate in a solution of antibiotic will reduce the pain associated with superficial corneal ulceration in the dog, with little or no effect on wound healing. Corneal ulcers are common in dogs and currently there is no effective treatment for local pain control during the healing process. Systemically administered analgesics are not typically effective in treating corneal pain. In order to properly evaluate the experimental drug / treatment, dogs (five) in the control group must not receive analgesia.

Column E Explanation Form

- 1. Registration Number: 32-R-0007
- 2. Number of animals used in this study: 8 (4 Column E)
- 3. Species of animals used in this study: Dogs

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

The project would attempt to reproduce a cutaneous lesion and renal disease seen in dogs. The animal model would serve as a possible model of hemolytic uremic syndrome of people due to verocytotoxigenic E. coli. by administering a single oral dose of verocytotoxigenic E. coli (0157:H7). It is unknown whether or not the disease syndrome is result of ingestion of the E. coli agent.

When oral administration proved unsuccessful in creating disease, the investigator, based upon personal communications with colleagues, unilaterally selected to use an E. coli lysate administered by the intravenous route. This change was instituted based upon the understanding that the disease is due to the role of a toxin of E. coli. The goal of the investigator still remained to recreate the disease state described and administer the bacterial toxin in a manner that produced disease.

The attending veterinarian became aware that dogs assigned to the project had died. In light of the death of the dogs and potential protocol violation, and in consultation with the Chair, IACUC, the attending veterinarian asked the investigator to stop any further live animal work on the project pending further investigation. This step was taken to prevent further risk to the animals assigned to the project. The investigator agreed to this request.

A special convened meeting of the IACUC was held to discuss the project. Committee members were informed that this protocol was being brought before the committee due to reports that animal care and use activities were performed that were not reviewed or approved by the IACUC. It was probable these activities led to the death of four dogs assigned to the project. Specifically, the IACUC had approved the use of a single oral administration of veracytogenic E. coli. The IACUC was informed that multiple oral doses were administered, prior to intravenous administration of the E. coli in a much stronger lysate form than was approved. Also of great concern was that this treatment caused at least some of the animals to endure stress that was not alleviated by euthanasia as required by the investigator's protocol. The IACUC voted to suspend the protocol, pending the completion of further investigation by the attending veterinarian. The suspension applied to all activities described in the protocol, except for the performance of normal husbandry and animal care activities.

Page 1 of 2

In a subsequent meeting, upon reviewing the investigator's explanation and a report by the attending veterinarian, the members of the IACUC decided by unanimous vote to permanently suspend the protocol. The IACUC confirmed that animals studied under cover of the protocol were subject to procedures that were not approved or reviewed by the IACUC. Furthermore, the consensus opinion of the IACUC was that the unauthorized treatment given to the animals caused them to experience distress that was not relieved by euthanasia or other means.

In accordance with USDA regulations, when the IACUC suspends an activity involving animals, the Institutional Official, in consultation with the IACUC, is required to review the reasons for the suspension, take appropriate corrective action, and report that action with full explanation to the Animal and Plant Health Inspection Service of the USDA (APHIS-USDA) and any federal agency funding that activity. By a unanimous vote, the IACUC decided to forward recommendations for corrective action to the Institutional Official. It was discussed that actions taken by the IACUC and the recommendations made by the IACUC to the Institutional Official were intended to achieve regulatory compliance and to provide the oversight necessary to prevent recurrence of the types of noncompliance that had been described.

Subsequent to the IACUC meeting, the Institutional Official, Assistant Vice President for Research, Chair of the IACUC and Attending Veterinarian met to discuss the committee's decision. The Institutional Official accepted the recommendations of the IACUC. A letter was provided to the USDA and PHS regarding the above action. The four remaining dogs assigned to the project were euthanized due to the concern that the animals had been orally administered a biohazardous organism and could serve as a potential reservoir for this agent.

5. Provide scientific justification why pain and or / or distress could not be relieved. State methods or means used to determine that pain and / or distress relief would interfere with test results:

In approving the project, the IACUC understood the study would be terminated / animals euthanized should symptoms of acute illness be observed. The IACUC had approved the use of a single oral administration of veracytogenic E. coli. The IACUC did not approve the project for the administration of multiple oral doses or intravenous administration of the E. coli lysate.

The investigator's use of animals was suspended and the USDA and PHS informed of this IACUC action.

EXCEPTIONS TO REGULATIONS / STANDARDS

EXERCISE FOR DOGS

- 1. Registration Number: 32-R-0007
- 2. Number of approved protocols with exemption: 9
- 3. Number of animals used in these protocols this reporting period: 0

4. Species of animals used in this study: Dogs

5. Explain the Exemption:

Certain protocols approved by the IACUC include a recovery surgical procedure in dogs. Following completion of the surgical procedure, it is necessary to confine the dogs by housing in a recovery cage until post-operative recovery is adequate to allow the dogs to be safely moved to regular housing. In each project, the recovery period is not expected to exceed three days.

The dogs are exempt from the usual exercise requirements for this three-day recovery period. Daily human contact and nursing care is provided during this period.

Prior to surgery and after the three-day post-operative recovery period, dogs are exercised in accordance with the routine standard operating procedure for exercise of dogs.

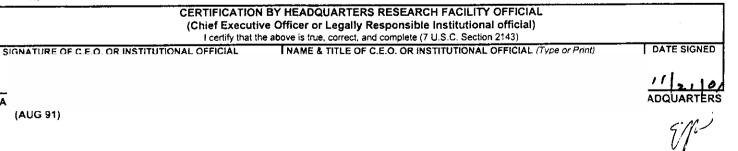
| This report is required by law result in an order to cease an | | | or in Section 2150. | See reverse side for additional information. | Interagency Report Control No 0180-DOA-AN | | |
|--|--|---|---|--|---|--|--|
| | ATES DEPARTMENT OF D PLANT HEALTH INSPE | | 1. REGISTRA 32-R-000 | | FORM APPROVED OMB NO: 0579-0036 | | |
| | (TYPEVOR PRIN | <i>T</i>) | ITY include Zij | 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) PURDUE UNIVERSITY 170 YOUNG GRADUATE HOUSE WEST LAFAYETTE, IN 47907 (765) 494-2604 | | | |
| REPORTING FACILITY (List a sheets if necessary.) | all locations where animals | were housed or used in a | ictual research, testing, teachin | g, or experimentation, or held for these pu | rposes. Attach additional | | |
| | | F | ACILITY LOCATIONS(sites) | | | | |
| See Attached Listing Provided by USD | A | · | | | ······································ | | |
| | | | | | | | |
| REPORT OF ANIMALS USED BY | OR UNDER CONTROL O | F RESEARCH FACILITY | (Attach additional sheets if neo | essary or use APHIS FORM 7023A) | | | |
| A. Animais Covered By The Animal Weifare Regulations | 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, expenments, 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 tranguilizing drugs were used. | E. Number of animals upon which tere experiments, research, surgery or conducted involving accompanying to the animals and for which the usanesthetic, analgesic, or tranquilizinhave adversely affected the proceinterpretation of the teaching, researcherments, surgery, or tests. (A the procedures producing pain or animals and the reasons such drumust be attached to this report) | tests were g pain or distress se of appropriate og drugs would dures, results, or <i>n</i> explanation of distress in these of ANIMALS OF ANIMALS OF ANIMALS OF ANIMALS OF ANIMALS | | |
| 4. Dogs | 0 | 24 | 178 | 3 | 205 | | |
| 5. Cats | 0 | 12 | 140 | 0 | 152 | | |
| 6. Guinea Pigs | 0 | 0 | 403 | 0 | 403 | | |
| 7. Hamsters | 0 | 0 | 290 | 0 | 290 | | |
| 8. Rabbits | 0 | 43 | 25 | 0 | 68 | | |
| 9. Non-Human Primates | 0 | 0 | 0 | 0 | 0 | | |
| 10. Sheep | 0 | 0 | 13 | 0 | 13 | | |
| 11. Pigs | 0 | 0 | 85 | 0 | 85 | | |
| 12. Other Farm Animals | | | | | | | |
| Cattle | 0 | 0 | 7 | 0 | 7 | | |
| 13. Other Animals | | | | | | | |
| Gerbils | 0 | 0 | 42 | 0 | 42 | | |
| Horses | 0 | 0 | 51 | 0 | 51 | | |
| ASSURANCE STATEMENTS | 1 | | | | | | |

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.



(AUG 91)

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| This report is required by aw (7 USC 2143). Failure to report according to the regulations can | | | | | | | |
|--|---|--|--|---|--|---|---|
| | TES DEPARTMENT OF PLANT HEALTH INSPE | | | 1. REGISTRAT 32-R-0007 | EODM ADDROS | | |
| | SHEET FOR ESEARCH FA (TYPE OR PRIN | CILITY | PORT | 2. HEADQUAR include Zip C | TERS RESEARCH FACILITY (Name a ode) PURDUE UNIVERSITY 170 YOUNG GRADUAT WEST LAFAYETTE, IN (765) 494-2604 | E HOUSE | stered with USDA, |
| REPORT OF ANIMALS USED BY O | | | | | · · · · · · · · · · · · · · · · · · · | | |
| A. Animais Covered By The Animai 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 exp teaching, surgery, c conducte accompa- distress to and for w anesthetic | of animals upon beriments, research, or tests were d involving nying pain or o the animals hich appropriate c, analgesic, or ng drugs were | E. Number of animals upon which it experiments, research, surgery or conducted involving accompanyi to the animals and for which the anesthetic, analgesic. or tranquilie have adversely affected the proc- interpretation of the teaching, res experiments, surgery, or tests. (the procedures producing pain or animals and the reasons such dri must be attached to (his report) | In tests were Ing pain or distress use of appropriate drugs would edures, results, or earch, An explanation of r distress in these | F. TOTAL NO. OF ANIMALS (Cois. C + D + E) |
| Red Squirrels | 0 | 69 | 0 | | 0 | | 69 |
| Gray Squirrels | 0 | 40 | 0 | | 0 | | 40 |
| Fox Squirrels | 0 | 16 | 0 | | 0 | <u></u> | 16 |
| Short tail Shrews | s 0 | 62 | 0 | · · · | 0 | | 62 |
| Masked Shrews | 0 | 3 | 0 | | 0 | | 3 |
| Cottontail Rabbi | s 0 | 30 | 0 | | 0 | | 30 |
| Eastern Chipmunk | s | 33 | 0 | | 0 | | 33 |
| hite footed Mice | 0 | 42 | 0 | | 0 | | 42 |
| Deer Mice | 0 | 73 | 0 | | 0 | | 73 |
| Meadow Voles | 0 | 1 | 0 | | 0 | | 1 |
| flying Squirrel | s 0 | 1 | 0 | | 0 | | 1 |
| Bog Lemmings | 0 | 1 | 0 | | 0 | | 1 |
| Jumping Mice | 0 | 4 | 0 | | 0 | | 4 |
| House Mice | 0 | 28 | 0 | | 0 | | 28 |
| Kangaroo Rats | 0 | 287 | 0 | | 0 | | 287 |
| Opossum | 0 | 1 | 0 | | 0 | | 1 |
| Coyotes | 0 | 17 | 0 | | 0 | <u>_</u> | 17 |
| | | | | | · · · · · · · · · · · · · · · · · · · | <u></u> | |
| | | | | | | | |
| 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.

| | CERTIFICATIO | N BY HEADQUARTERS RESEARCH FACIL | ITY OFFICIAL | |
|---------------------|-----------------------------------|---|-----------------------------|--------------|
| | (Chief Execut | ive Officer or Legally Responsible Institution | onal official) | |
| | I certify that | he above is true, correct, and complete (7 U.S.C. Sec | ction 2143) | |
| SPANATIRE OF CEO OR | INSTITUTIONAL OFFICIAL | I NAME & TITLE OF CEO OD INSTITUTION | AL DEEICIAL (Type or Print) | DATE SIGNED |
| | firehianda ko i nivili iniko fino | 00j, Milich 13 0030/616 | | HEADQUARTERS |
| (ALIC 04) | | | | |

(AUG 91)

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The following sites have been reported by the facility.

Registration Number: Customer Number: Facility:

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32-R-0007 779 PURDUE UNIVERSITY 170 YOUNG GRADUATE HOUSE WEST LAFAYETTE, IN 47907 (765) 494-2604

ALL CAMPUS SITES ALL CAMPUS SITES WEST LAFAYETTE, IN 47906

IU-PU FT. WAYNE LIFE SCIENCE RESOURCE CENTER FORT WAYNE, IN 46805

Column E Explanation Form

- 1. Registration Number: 32-R-0007
- 2. Number of animals used in this study: 3 (5 Column E)
- 3. Species of animals used in this study: Dogs
- 4. Explain the procedure producing pain and / or distress:

Dogs are anesthetized with a general anesthetic. A corneal ulcer is created in the cornea of one eye of each dog using a corneal trephine. The defect created is 7 mm in diameter. The superficial layer of the cornea (0.1 - 0.2 mm) is removed to create a standardized superficial ulcer. All dogs (five control group dogs and five treatment group dogs) receive a topical treatment of bacitracin-neomycin-gramicidin solution every six hours. Five of the ten dogs (treatment group) also receive topical treatment with morphine sulfate every six hours. Dogs are monitored daily for healing of the ulcer and comfort level (squinting, tearing, redness). Ulcers are expected to heal in three to five days. The veterinary ophthalmologist rated the discomfort as moderate and discomfort would diminish each day as healing occurs. Dogs are housed in the Veterinary Teaching Hospital during the healing period.

5. Provide scientific justification why pain and or / or distress could not be relieved. State methods or means used to determine that pain and / or distress relief would interfere with test results:

The objective of the study is to determine if the use of topically applied morphine sulfate in a solution of antibiotic will reduce the pain associated with superficial corneal ulceration in the dog, with little or no effect on wound healing. Corneal ulcers are common in dogs and currently there is no effective treatment for local pain control during the healing process. Systemically administered analgesics are not typically effective in treating corneal pain. In order to properly evaluate the experimental drug / treatment, dogs (three) in the control group must not receive analgesia.

EXCEPTIONS TO REGULATIONS / STANDARDS

EXERCISE FOR DOGS

1. Registration Number: 32-R-0007

- 2. Number of approved protocols with exemption: 7
- 3. Number of animals used in these protocols this reporting period: 74

4. Species of animals used in this study: Dogs

5. Explain the Exemption:

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Certain protocols approved by the IACUC include a recovery surgical procedure in dogs. Following completion of the surgical procedure, it is necessary to confine the dogs by housing in a recovery cage until post-operative recovery is adequate to allow the dogs to be safely moved to regular housing. In each project, the recovery period is not expected to exceed three days.

The dogs are exempt from the usual exercise requirements for this three-day recovery period. Daily human contact and nursing care is provided during this period.

Prior to surgery and after the three-day post-operative recovery period, dogs are exercised in accordance with the routine standard operating procedure for exercise of dogs.

| UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | 1. CERTIFICATE NUMBER: 32-R-0007 CUSTOMER NUMBER: 779 |
|---|--|
| ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) | Purdue University Laboratory Animal Program 1071 Veterinary Animal Holding Facility-1 4/0 S. University S West Lafayette, IN 47907 |
| | |

FACILITY LOCATIONS (Sites) - See Atached Listing

| 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 ye | 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, a | 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 | F. TOTAL NUMBEF OF ANIMALS (COLUMNS C+D+E) |
|---|---|--|---|--|--|
| 4. Dogs | 0 | 51 | 267 | 2 | 320 |
| 5. Cats | 0 | 64 | 56 | 0 | 120 |
| 6. Guinea Pigs | 0 | 36 | 389 | 0 | 425 |
| 7. Hamsters | 0 | 6 | 437 | 0 | 443 |
| 8. Rabbits | 0 | 39 | 101 | 0 | 140 |
| 9. Non-human Primate | 0 | 0 | 0 | 0 | 0 |
| 10. Sheep | 0 | 0 | 38 | 0 | 38 |
| 11. Pigs | 0 | Õ | 106 | 0 | 106 |
| 12. Other Farm Animals | | | | | |
| Goat | 0 | 2 | 0 | 0 | 2 |
| 3. Other Animals | | | | | e = 1 |
| Cows | 0 | 4 | 7 | 0 | 11 |
| Horses | 0 | 25 | 111 | 0 | 136 |
| Llamas | 0 | 2 | 10 | 0 | 12 |

ASSURANCE STATEMENTS

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, 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

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED 1/15

26 ,2/2/00

| This report is required by law (7 result in an order to cease and o | USC 2143). Failure to desist and to be subject | report according to th t to penalties as provid | e regulations ded for in Sec | canNOV 2 | 2002 e reverse side for additional information. | Interagency Rep 0180-DOA-AN | ort Control No. |
|---|---|---|--|--|--|--|--|
| | ES DEPARTMENT OF A | | | 1. REGISTRATION | I NO. | FORM APP | ROVED |
| | | | ļ | 32-R-0007 OMB NO. 0579-0036 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA | | | |
| | | | | include Zip Cod | AS RESEARCH FACILITY (Name and A le) | ddress, as registered | with USDA, |
| CONTINUATION | | | ORT | | University | | |
| | ESEARCH FA | - | | | ory Animal Program niversity Street | | |
| , | | | | | fayette IN 47907-20 | 65 | |
| REPORT OF ANIMALS USED BY OF | the second s | RESEARCH FACILITY | ' (Attach adidi | tional sheets if ne | cessary or use this form.) | | |
| A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other | B. Number of animals being bred, conditioned, or held Jor 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 exp teaching, surgery, of conducte accompa distress t and for w anestheti tranguiliz | of animals upon periments, research, or tests were d involving nying pain or o the animals hich appropriate c, analgesic, or ing drugs were | E. Number of animals upon which te experiments, research, surgery or conducted involving accompanyli to the animals and for which the anesthetic, analgesic, or tranquili have adversely affected the proce- interpretation of the teaching, res experiments, surgery, or tests. (A the procedures producing pain o animals and the reasons such dri must be attached to this report). | tests were typ pain or distress use of appropriate zing drugs would edures, results, or earch, n explanation of r distress in these | F TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| (List by species) | | 1 | used. 0 | | 0 | | 1 |
| Camels | 0 | 1 | | | | | 95 |
| Gerbils | 0 | 3 | 9: | ۷ | 0 | - | |
| Kangaroo rats | 00 | <u>84'</u> | 0 | | 0 | · · · · · · · · · · · · · · · · · · · | 84 |
| Norway rats | 0 | 2 | 0 | | 0 | | 2 |
| Voles | 0 | 359 | 2 | 8 | 0 | | 387 |
| Deer mice | 00 | 112 | 0 | | 0 | | 112 |
| White footed mic | e 0 | 1366 | 0 | | 0 | | 1366 |
| Jumping mice | 00 | 126 | 0 | | 0 | | 126 |
| House mice | 0 | 10 | 0 | | 0 | | 10 |
| Harvest mice | 0 | 1 | 0 | | 0 | | 1 |
| Coatis | 0 | 11 | 0 | | 0 | | 11 |
| Chipmunks | 0 | 1492 | 0 | | 0 | | 1492 |
| Squirrels | 0 | 1111 | 0 | | 0 | | 1111 |
| Cottontail rabbi | ts 0 | 44 | 0 | | 0 | | 44 |
| Opossums | 00 | 303 | 0 | | 0 | | 303 |
| Raccoons | 0 | 773 | 0 | | 0 | | 773 |
| Woodchucks | 0 | 9 | 0 | | 0 | | 9 |
| Skunks | 0 | 8 | 0 | | 0 | 1. F | 8 |
| Mink | 0 | 1 | 0 | | 0 | | 1 |
| ASSURANCE STATEMENTS | | | | | | | |

1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate 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 HEADQUARTES 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) | | | | | | |
|---|--|-------------|--|--|--|--|
| SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL | NAME & TITLE OF CEO OF INSTITUTIONAL OFFICIAL C. | DATE SIGNED | | | | |
| | | 11/15/02 | | | | |

| This report is required by law (7 | USC 2143). Failure to | report according to the | e regulation | s can |] ZUUZ See reverse side for | Interagency Repo | ort Control No. |
|--|---|---|---|---|---|--|--|
| result in an order to cease and desist and to be subject to penalties as provided for UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE | | | | | | 0180-DOA-AN 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) Purdue Univeristy Laboratory Animal Program 410 S. University Street | | | |
| | | | | West La | fayette IN 47907-20 | 65 | |
| REPORT OF ANIMALS USED BY OF | | | (Attach adi | ditional sheets if ne | | | |
| A Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by species) | B. Number of animals being bred, conditioned, or held Jor 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 leachin surgery conduc acgomp distress and for anesthe | r of animals upon experiments, g, research, , or tests were ted involving banying pain or s to the animals which appropriate stic, analgesic, or lizing drugs were | E. Number of animals upon which to experiments, research, surgery of conducted involving accompany to the animals and for which the anesthetic, analgesic, or tranquil have adversely affected the proc interpretation of the teaching, re experiments, surgery, or tests. (<i>i</i> the procedures producing pain of animals and the reasons such of must be attached to this report) | r tests were ing pain or distress use of appropriate izing drugs would edures, results, or search, An explanation of or distress in these | F TOTAL NO. OF ANIMALS (Cols. C + D + E) |
| Lemmings | 0 | 2 | 0 | | 0 | | 2 |
| Shrews | 0 | 528 | 0 | | 0 | | 528 |
| Weasels | 0 | 25 | 0 | | 0 | - | 25 |
| Fox | 0 | 1 | 0 | | 0 | | 1 |
| Bats | 0 | 52 | 0 | | 0 | | 52 |
| | | | | | · · · · · · · · · · · · · · · · · · · | | |
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| ASSURANCE STATEMENTS | | | | | | | |

1). Professionally acceptable standards governing the care, treatment, and use of animals, including approviate 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 HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 USC Section 2143) DATE SIGNED 11/15/02

FACILITY LOCATIONS

Registration Number: 32-R-0007

| UNIT | BUILDING | | | |
|--------------------------------------|--|--|--|--|
| Animal Sciences | Lily Hall | | | |
| Biological Sciences | Lily Hall | | | |
| Biomedical Engineering | Potter Building | | | |
| Foods & Nutrition | Lily Hall | | | |
| Hansen Life Science Research Center | Hansen Building | | | |
| Pharmacy | Heine Building | | | |
| Psychological Sciences | Psychology and Peirce Buildings | | | |
| Veterinary Clinical Sciences | Lynn Hall, Equine Health Sciences Building, Veterinary Teaching Hospital, Purdue Veterinary Farm | | | |
| Veterinary Laboratory Animal Care | Veterinary Animal Holding Facility I-II-III, Veterinary Laboratory Animal Building, Veterinary Pathology Building, Doyle Building, Isolation 2 | | | |
| Calumet Regional Campus | Gyte Science Building | | | |
| Fort Wayne Regional Campus | Life Science Resource Center, Classroom Medical Education, Science Buildings | | | |
| North Central Regional Campus | Swarz Building | | | |
| Animal Sciences Research | Various Buildings of Dairy, Beef, | | | |
| and Education Center | Swine, Sheep, Poultry Complex | | | |
| Aquaculture | Aquaculture Building | | | |
| Wildlife Animal Care Facility (WACF) | WACF Building | | | |
| Various Field Sites | No Animal Housing | | | |

Column E Explanation Form

- 1. Registration Number: 32-R-0007
- 2. Number of animals used in this study: 3 Used (2 Column E)
- 3. Species of animals used in this study: Dogs

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

Using the dog as an animal model, the project would test the replacement of the anterior leaflet of the pulmonic valve with an extracellular matrix scaffold composed of urinary bladder submucosa. Animals would be anesthetized and a thoracotomy performed. The animal would be maintained under anesthesia and placed on cardiopulmonary bypass. Following placement of an aortic cross clamp and delivery of cardioplegia, the pulmonary valve would be surgically exposed through an incision across the pulmonary artery. The anterior pulmonary valve leaflet would be completely excised and an extracellular matrix device sewn into its place. The pulmonary artery would be closed, the animal weaned off cardiopulmonary bypass, the chest wall closed and the animal recovered from anesthesia.

Experienced personnel performed the procedure (the investigator for the project was a D.V.M., M.D., Ph.D. and human cardio-thoracic surgeons were utilized for the actual surgical procedure). Animal preparation, anesthesia and post-operative care was performed by a staff of registered / licensed veterinary technicians employed by the research department.

It was learned that one dog died during the night subsequent to the procedure and another dog experienced post surgical complications. While valve replacement would be considered a fairly invasive procedure with potential complications that could result in death (the protocol stated that potential by pass complications included blood pressure, temperature and blood loss and that those parameters would be monitored), evaluation of research records determined that the post-operative care described on the protocol form was not complete to the extent that the IACUC would be able to evaluate the care planned. Review of the research records revealed that although the animals were apparently able to maintain a sternal position, they went 13.5 hours following a thoracotomy without any observation. The animal that died went from 4:30 p.m. the day of surgery to approximately 6:00 a.m. the following day without evaluation. This was considered to be inadequate postoperative care based upon standard veterinary nursing standards.

It was further determined that monitoring for pain and relief was not timely. The protocol described the postsurgical use of morphine every one to two hours as needed. Based upon a review of the records, one dog received morphine once the day of surgery at 11:10 a.m. with no additional doses provided that day. A second dog was provided morphine at 3:20 p.m. the afternoon of surgery with no additional doses provided until 7:40 a.m. the following day (16-hour dosing schedule) and the next dose was provided at 2:30 p.m. (7 hours from the time of the previous dose).

Once the IACUC became aware of the issues, the investigator was contacted and voluntarily stopped activity associated with the project. Pending complete review of the facts, this was necessary to remove any dogs from potential harm and felt to be important as additional dogs were scheduled for surgery in the near future.

Subsequent to discussion of the protocol and issues by the IACUC at a convened meeting, by a unanimous vote, the IACUC suspended further activity on the protocol. The suspension applied to all activities described in the protocol, except for the performance of normal husbandry and animal care activities necessary to maintain the well-being of the animals. It was clear that animals in this study required post-operative care equivalent to that provided in an intensive care setting. The consensus opinion of the IACUC was that the lack of postoperative care provided to the animals caused them to experience distress that was not relieved by euthanasia or other means.

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The IACUC recommended that the protocol be rewritten in its entirety and resubmitted for review by a quorum of IACUC. Any reconsideration for re-approval of this protocol would require written details for post-operative care of dogs post-thoracotomy to the extent that the IACUC would have a complete understanding of the care to be given. Details were to include frequency of monitoring, type of monitoring including treatment of post-operative pain, ability to provide emergency care, etc. thus allowing for adequate evaluation by the IACUC.

When the protocol was resubmitted, the IACUC requested additional points be clarified and as such the protocol remained suspended. IACUC review of the re-written protocol was underway and the IACUC was to meet at which time the protocol would be further discussed. Subsequent to that review, a recommendation would be sent to the Vice President for Research regarding the suspension.

Prior to the IACUC's meeting, the investigator's association with Purdue University ended. As a result, the IACUC was not required to take further action regarding the status of the protocol or provide the Vice President for Research with additional corrective actions to be taken regarding the protocol and investigator.

As animals remained on the protocol at the time of the investigator's departure, the protocol was not immediately deactivated. Oversight of the protocol and associated animals was transferred to another Purdue University investigator. Two of the dogs assigned to this protocol that had undergone the described heart valve procedure were subsequently euthanized. Another seven dogs that were scheduled for use on the protocol were transferred to other approved projects within the university. The transfers were formally completed and the protocol subsequently deactivated.

5. Provide scientific justification why pain and or / or distress could not be relieved. State methods or means used to determine that pain and / or distress relief would interfere with test results:

In approving the project, the IACUC understood the animals would be provided adequate post-operative monitoring, pain relief or would be euthanized if necessary.

The investigator's use of animals was suspended and the USDA and PHS informed of this IACUC action.