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OMB APPROVED  
0579-0036  
Exp.: 10/31/2018

This report is required by law (7 U.S.C. 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

Interagency Report Control  
No. 0180-DOA-AN

Fiscal Year 2017

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY  
(TYPE OR PRINT)

1. REGISTRATION NUMBER  
71-G-0001

2. HEADQUARTERS RESEARCH FACILITY (Name, address, and telephone number as registered with USDA, include ZIP Code)

HARRY K DUPREE  
P.O. Box 1050

STUTTGART, AR 72160

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

FACILITY LOCATIONS (Sites)

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

A.  Animals Covered By The Animal Welfare Regulations	B.  Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C.  Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D.  Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E.  Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress on these animals and the reasons such drugs were not used must be attached to this report.)	F.  TOTAL NUMBER 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					
13. Other Animals					

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

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL  
(Chief Executive Officer (C.E.O.) or Legally Responsible Institutional Official (I.O.))

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

DATE SIGNED  
13-FEB-2018

**CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY  
EXPLANATION FOR APHIS FORM 7023 COLUMN E ENTRIES****FY 2017****CUSTOMER NUMBER: 334026****REGISTRATION NUMBER: 71-G-0001**

Species: Channel Catfish

Number: 420

Species: Hybrid Striped Bass

Number: 1050

Species: Golden Shiner

Number: 840

Species: Rainbow Trout

Number: 1680

Acute toxicity studies are designed to determine the calculated concentration of a specific test article that will cause 50% mortality in a representative fish population. They are needed to determine the hazardous potential of different compounds and to compare the sensitivity of various fish species that are exposed under distinct environmental conditions. These evaluations must be conducted in a complete living animal in order to understand the complex physiologic and metabolic interactions that contribute to an intoxicated state. A complete assessment of the toxic potential of a test substance cannot currently be accomplished exclusively through available alternative methods. All fish were carefully monitored throughout the study, but some were expected to develop lethargy, loss of appetite, irritated skin or gills, respiratory distress, or aberrant locomotion leading to a moribund condition or death. Humane endpoints were established to minimize pain and discomfort; however, the use of anesthetics, analgesics, or tranquilizing drugs was contraindicated as their administration would have interfered with sensitive metabolic processes and masked clinical and physiological changes that were critical to an accurate assessment of the exposure. The subpopulation of fish that exceeded those parameters is being reported in Column E.

Note: No exceptions to the regulations and standards were requested by the PI or approved by the IACUC.

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**CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY  
EXPLANATION FOR APHIS FORM 7023 COLUMN E ENTRIES****FY 2017****CUSTOMER NUMBER: 334026****REGISTRATION NUMBER: 71-G-0001**

Species: Channel Catfish

Number: 794

Species: Hybrid Striped Bass

Number: 420

Species: White Bass

Number: 420

Fish were used to determine the effectiveness of 1) treatments, 2) immunization (following disease challenge), or 3) diet manipulations following challenge with a bacterial pathogen. Complete living animals were required for these studies to better understand each intervention's impact on an animal's ability to resist and/or respond to infection. The full range of immunologic and physiologic responses to a disease cannot be replicated in any of the *in vitro* systems that are currently available. Some fish may have experienced difficult respiration or changes in the cutaneous osmoregulatory process following bacterial challenge or due to the administration of novel test article. However, anesthetics, analgesics, or tranquilizing drugs could not be given to alleviate these signs as their administration would have interfered with sensitive metabolic processes and masked clinical and physiological changes that were critical to an accurate assessment of the outcome. Humane endpoints were established to minimize pain and discomfort, and fish identified as moribund were euthanized. Some fish may have died before euthanasia could be performed, and this subpopulation is being reported in Column E.

Note: No exceptions to the regulations and standards were requested by the PI or approved by the IACUC.

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