The overarching goal of FARAD is to provide current and accurate scientific information to veterinary practitioners thereby ensuring animal-derived human foods are devoid of unsafe chemical residues, including drugs, pesticides, natural toxins and environmental contaminants. Pursuant to the Animal Medicinal Drug Use Clarification Act of 1994 (AMDUCA), FARAD provides science-based estimates of safe withdrawal intervals for food-producing animal species that have been treated with or exposed to drugs or other chemicals. To do this, FARAD utilizes the most current pharmacokinetic information, approvals both domestic and foreign, tolerance and FSIS detection limits, as well as regulatory and legal requirements. FARAD receives thousands of calls that directly affect approximately 10 million animals per year.

Modern animal agriculture relies heavily on the use of therapeutic drugs, pesticides and other agents that improve overall animal health and promote safe, efficient and humane production practices. Through the assimilation of a comprehensive drug database and the use of state-of-the-art pharmacokinetic modeling, FARAD scientists determine appropriate withdrawal periods for food-use (ELDU) drugs in animal agriculture, and during food contamination emergencies which might arise from accidental exposure to environmental toxins, particularly pesticides, or intentional efforts to contaminate the food supply. Finally, FARAD provides assistance in trade matters related to foreign drug approvals and trains future veterinarians in the principles of residue avoidance.

### FARAD Call Data

**Drug Class Inquiries for Beef Cattle from 2015-2017**

- NSAIDs: 19%
- Analgesics/Anesthetics: 31%
- Antimicrobials: 50%

**Drug Class Inquiries for Dairy Cattle from 2015-2017**

- NSAIDs: 7%
- Analgesics/Anesthetics: 21%
- Antimicrobials: 72%

**Drug Class Inquiries for Swine from 2015-2017**

- NSAIDs: 16%
- Analgesics/Anesthetics: 21%
- Antimicrobials: 63%

**Drug Class Inquiries for Poultry from 2015-2017**

- NSAIDs: 15%
- Analgesics/Anesthetics: 38%
- Antimicrobials: 47%

**Drug Class Inquiries for Sheep from 2015-2017**

- NSAIDs: 14%
- Analgesics/Anesthetics: 16%
- Antimicrobials: 70%

**Drug Class Inquiries for Goats from 2015-2017**

- NSAIDs: 16%
- Analgesics/Anesthetics: 14%
- Antimicrobials: 70%

### Location Information

FARAD is a USDA-funded university-based consortium that is overseen and operated by faculty and staff within the Colleges of Veterinary Medicine at North Carolina State University, University of California-Davis, the University of Florida, Kansas State University and Virginia Polytechnic Institute and State University (Virginia Tech). FARAD is staffed by highly-trained veterinary pharmacologists, veterinary pharmacists, toxicologists, and food animal specialists.

### Contact FARAD

Pursuant to AMDUCA, FARAD invites prescribing veterinarians with a valid veterinarian-client-patient relationship (VCPR) to send inquiries regarding extra-label drug use via online submissions or telephone. Please note that FARAD no longer accepts email submissions.