



U.S. Food and Drug Administration  
Protecting and Promoting Public Health

[www.fda.gov](http://www.fda.gov)

# Feed Safety Regulation in the United States

SECD International Meeting  
September 24-25, 2014

Shannon Jordre  
Division of Compliance  
FDA Center for Veterinary Medicine





# Feed Safety



- **Industry**
  - responsible for producing and distributing safe feed
- **FDA and States**
  - provide rules, guidance, and oversight
  - take enforcement action when necessary



# Regulation of Animal Feed

- **FDA**
  - **Authority: Federal Food Drug and Cosmetic Act**
    - **FDA regulates feed under the adulteration and misbranding provisions of the FFDCA (Sec 402 and 403) -- the feed is to be safe and properly labeled**
- **States**
  - **FDA cooperates with the states individually, and via the Association of American Feed Control Officials (AAFCO)**
  - **Now approximately 75% of FDA's feed inspections are performed by state agencies**
    - **Contracts, Partnerships & Cooperative Agreements**



# Large Feed Mill





# Unloading Bulk Ingredients





# Modest-Sized Feed Mill





# On-Farm Feed Manufacturing





# Inventory by Firm Type

(August 31, 2014)

- **5191 Feed Mills not licensed by FDA**
- **1013 Medicated Feed Mills licensed by FDA**
- **531 Pet Food Manufacturers**
- **293 Renderers**
- **233 Salvagers**
  
- **AFIA estimates 158 million tons total feed produced in the US in 2013 (or roughly 6.3 million semi-truck loads of product)**



# Feed Inspection Work

- **Feed inspection work is done by FDA and State personnel**
- **Currently about 350 FDA and 400 state personnel doing feed inspections for FDA**
  - **Few are full-time feed inspectors**
- **State inspections, if done for FDA, usually done under FDA authority and process. Work is tracked by FDA.**
- **State feed control programs do a great deal of other work under their own authority, to meet their own objectives**



# Various Regulations Apply

- **21 CFR 225 covers the GMPs for feed mills that manufacture medicated feeds**
- **21 CFR 501 covers feed labeling**
- **21 CFR 558 covers the medications that may be used in feeds**
- **21 CFR 589.2000 and 589.2001 cover BSE**
- **GMPs and preventive controls being developed under FSMA (proposed 21 CFR 507)**
- **Other regulations depending on what the facility does**
- **Except for BSE, no regulations specific to a particular animal disease**



# FY 2013 Feed Imports

- **Approx. 310,000 total lines imported feed/ingredients**
- **Represent 4900 foreign manufacturers worldwide**
- **Products originated from 89 countries and US territories**
- **114 different feed materials identified**
- **Canada our biggest importer, representing approximately 57% of the suppliers and 74% of the shipments in 2013**



# Import Inspection

- **Entry is made to Customs (CBP), using Harmonized Tariff Schedule of the United States (HTSUS)**
- **If product is FDA-regulated, CBP forwards to FDA**
- **FDA will examine and release or detain**
- **All shipments are screened electronically, and a determination is made whether to examine the shipment in more detail**
- **Examination could consist of looking at documents, a physical inspection of the product, and/or sampling and analysis**
- **If apparent violations are found, the detention process begins**
- **If no violations, product is released**



# Foreign Inspections

- **In the feed program, FDA is currently conducting only a small number of foreign inspections under our work plan**
- **Foreign facilities may be inspected for cause**



# Feed Testing Program

- **Sample collection and analysis is a routine part of our feed inspection program, particularly for contaminants**
- **However, using PEDV as an example, sampling and analysis does not prove to be much help**
- **PCR is an option, but there is limited lab capacity and any results are not definitive**
  - **You may be able to detect the viral genetic material, but you do not know if it is viable**
- **Bioassay can only be done on a very limited basis due to limited capacity and extremely labor-intensive techniques**



# Enforcement

- **Warning & untitled letters**
- **Injunction & seizure**
- **Prosecution**
- **Withdraw registration as a food facility**



# FSMA

- **Food Safety Modernization Act will bring some changes to how feeds are regulated**
- **Each facility will need to evaluate their hazards**
- **At this time, however, virus-specific feed regulations are not anticipated**



# Summary

- **The US feed industry is large and complex**
- **Current regulations re manufacturing provide a lot of latitude**
- **Aside from relying on low moisture levels, there are few controls built into the feed system for microbiological agents**



# Thank You!

**Shannon Jordre**

**Division of Compliance, HFV-232**

**FDA Center for Veterinary Medicine**

**7519 Standish Place**

**Rockville, MD 20855**

**Phone: 240-507-6549**

**E-mail: [shannon.jordre@fda.hhs.gov](mailto:shannon.jordre@fda.hhs.gov)**