

University of Missouri Extension

Food Safety Modernization Act for Animal Feed Facilities

Schreck, B.

Field Specialist in Livestock, University of Missouri Extension, Monticello, MO 63457, schreckb@missouri.edu

Introduction

The Food Safety Modernization Act (FSMA) was signed into law in 2011 with the goal of reducing and preventing contamination in the United States food supply. The animal feed safety division of FSMA requires feed mills and elevator firms to develop and maintain documentation on the firm's current good manufacturing practices for processing and selling livestock feed and pet food.

Certified Preventive Control Qualified Individuals (PCQI) assist elevator firms in developing Feed Safety Plan manuals for compliance with FSMA regulations. A PCQI member may be an employee of the facility or qualified third-party business or individual, overseeing the development and maintenance of the firm's plan manual. MU Extension faculty that are PCQI certified become a consultant of each firm's FSMA team.

As the University of Missouri (MU) Extension certified PCQI, I currently assist with 36 firms:

- in 24 Missouri counties
- with 26 sites processing medicated feeds
- on an annual basis to review firms' feed safety plan manuals and manufacturing practices

Objectives

- Provide an affordable service to small elevator firms, which helps sustain healthy communities while adding tax dollars to the economy.
- Assist firms in creating and maintaining documentation to reflect any changes in firm operations, or interpretations of FSMA regulations by state agricultural feed inspectors.



Consultation with firm owner on current good manufacturing practices for bagged feed.

Methods

MU Extension faculty certified as PCQI meet with elevator firms either in-person or virtually to review the firm's facility for manufacturing and retail practices. Firms are instructed on FSMA guidelines and how to maintain accurate, up-to-date documentation for animal feed safety.

The PCQI and consulting firms remain in routine contact, updating the firm's plan manual as changes occur in firm's operations or interpretations of FSMA regulations. FSMA manuals contain documentation including:

- Feed Safety Plan customized to each firm's manufacturing and distribution process
- Standard Operating Procedure List
- Hazard Analysis Matrix and Guide
- Feed Additive Compendium for firms that manufacture or sell medicated feed
- Flowchart - diagram illustrating the firm's process for feed production
- Compliance and training forms
- Recall Guidance Document

Impacts and Outcomes

In 2021, the Missouri Agricultural and Small Business Development Authority released a study of Missouri's agriculture and forestry industries, and the impact these industries added to the state's economy. The animal and pet food processing sector contributed:

- \$3.8 billion to Missouri's economy
- 37,078 jobs in the state

Program outcomes:

- Firms learn the necessary guidelines required for their facility to remain in compliance with FDA regulations for animal feed safety.
- Firms learn what preventive measures need to be implemented at their individual sites for animal feed safety, and how to maintain accurate documentation for future inspections.
- Firms that can remain FSMA compliant and stay in business, add value to local and state economies.

Total Economic Impact by Ton of Livestock Feed and Pet Food from Consulting Firms, 2017 to present

| Year | Number of Firms ^{ab} | Tons of Livestock Feed Manufactured and Retailed | Livestock Feed Economic Impact | Tons of Pet Food Manufactured | Pet Food Economic Impact | Total Economic Impact |
|-------|-------------------------------|--|--------------------------------|-------------------------------|--------------------------|-----------------------|
| 2017 | 10 | 224,104 | \$80,436,500 | - | - | \$80,436,500 |
| 2018 | 23 | 434,639 | \$168,623,790 | 2,505 | \$6,010,497 | \$174,634,287 |
| 2019 | 24 | 436,664 | \$174,320,176 | 3,255 | \$7,810,047 | \$182,130,223 |
| 2020 | 27 | 471,434 | \$182,093,503 | 3,255 | \$7,810,047 | \$189,903,550 |
| 2021 | 32 | 481,414 | \$260,059,621 | 3,255 | \$7,810,047 | \$267,869,668 |
| 2022 | 35 | 489,193 | \$306,023,927 | 3,255 | \$7,810,047 | \$313,833,974 |
| 2023 | 36 | 491,200 | \$262,254,516 | 3,255 | \$7,810,047 | \$270,064,563 |
| 2024 | 34 | 481,600 | \$209,118,350 | 3,255 | \$7,810,047 | \$216,928,397 |
| 2025 | 36 | 523,988 | \$246,400,159 | 7,255 | \$17,407,647 | \$263,807,806 |
| Total | | 4,034,236 | \$1,889,330,542 | 29,290 | \$70,278,426 | \$1,959,608,968 |

^a Fluctuations each year represent firms added to or removed from consult list from previous year.

^b Two pet food manufacturers are included in the number of firms.