

Feed Ingredients & Quality Control

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Benefits of Quality Assurance

Feed Ingredients & Quality Control

- **Safety**
 - Ingredient Inspection & Analyses
 - Mycotoxins
- **Healthy Animals & Livestock**
 - Guaranteed Analysis
- **Compliance with Federal & State Laws**
 - Certifications
 - Safe Feed/Safe Food
 - HACCP

Is Quality valuable?



Ingredient Inspection

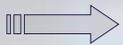
- **Color, Aroma**
- **Moisture**
- **Mycotoxins**
- **Foreign Material**
- **Approved Suppliers**
- **Inspect prior to unloading**



Ingredient Analyses

- **Moisture**
- **Particle Size/Specifications**
- **Nutritional Composition:**
 - Protein, Fat, Fiber, etc.
- **Formulated to meet Label Guarantees**

Quality Ingredients



Quality Feed



Mycotoxins: Screening



Mycotoxins: Regulation & Guidance

FDA Action Levels for Aflatoxin (Animal Feed & Feed Ingredients)		
Intended Use	Grain, Grain Byproduct, Feed or other Products	Aflatoxin Level (parts per billion)
Immature Animals	Corn, peanut products and other animal feeds and ingredients, excluding CSM	20 ppb
Dairy, animals not otherwise listed, or unknown use	Corn, peanut products, Cottonseed, and other animal feeds and ingredients	20 ppb
Breeding cattle, breeding swine and mature poultry	Corn and peanut products	100 ppb
Finishing swine (100lb or greater)	Corn and peanut products	200 ppb
Finishing (i.e. feedlot) beef cattle	Corn and peanut products	300 ppb
Beef, cattle, swine or poultry, regardless of age or breeding status	Cottonseed Meal	300 ppb



Mycotoxins: Regulation & Guidance

Advisory Levels: (total diet)

- Deoxynivalenol (DON or Vomitoxin)
 - Swine: 1 ppm
 - Dairy Cattle older than 4 mo.: 5 ppm
- Fumonisin
 - Equids & Rabbits: 1 ppm
 - Poultry for slaughter: 50 ppm

Effective Quality Assurance ensures feed safety for all species.*

* Feed according to Label Instructions.



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Regulations for Food/Feed

Familiar Terms for Ingredient Handlers/Processors

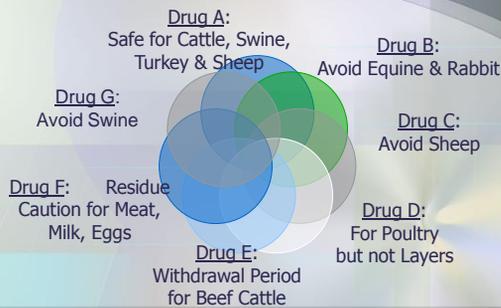
- ✓ Recall Plan
- ✓ Reportable Food Registry
- ✓ State Commercial Feed Laws
- ✓ Bioterrorism Act Registration
- ✓ Restricted Use Protein Products (RUPP)
- ✓ Food Safety Modernization Act (2011)
- ✓ Code of Federal Regulations
 - Good Manufacturing Practices (GMPs)
 - Sanitation Standard Operating Procedures (SSOPs)



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Sequencing for Safety

For Example...



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Safe Feed/Safe Food Certification

American Feed Industry Association (AFIA)

www.afia.org

SF/SF Objectives:

- Reducing risks
- Tracking & tracing products
- Lowering product liability rates
- Protecting hard-won brand value
- Decreasing waste, shrink & complaints



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Safe Feed = Safe Food



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HACCP

A comprehensive food safety system for humans and animals

Hazard Analysis

- Addresses physical, chemical & biological hazards throughout the manufacturing process

Critical Control Points

- Checkpoints throughout the process where the product is monitored.



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In closing... "Famous Quotes"

The Value of Quality

Price is what you pay. Value is what you get.
Warren Buffett

It takes 20 years to build a reputation and five minutes to ruin it. If you think about that, you'll do things differently.
Warren Buffett

Thank You

Quality Quotes

Quality is everyone's responsibility.
W. Edwards Deming (1900-1993) American Consultant, Statistician, Educator

Quality is not an act, it is a habit.
Aristotle (384 BC – 322 BC) Ancient Greek Philosopher, Scientist, Physician

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