Feed Ingredients & Quality Control

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

[Image: Quality Ingredients → Quality Feed]

Mycotoxins: Screening

Mycotoxins: Regulation & Guidance

<table>
<thead>
<tr>
<th>FDA Action Levels for Aflatoxin (Animal Feed &amp; Feed Ingredients)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intended Use</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>Immature Animals</td>
</tr>
<tr>
<td>Dairy, animals not otherwise listed, or unknown use</td>
</tr>
<tr>
<td>Breeding cattle, breeding swine and mature poultry</td>
</tr>
<tr>
<td>Finishing swine (100lb or greater)</td>
</tr>
<tr>
<td>Finishing (i.e. feedlot) beef cattle</td>
</tr>
<tr>
<td>Beef, cattle, swine or poultry, regardless of age or breeding status</td>
</tr>
</tbody>
</table>
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.*

**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)

**Sequencing for Safety**

For Example...

- Drug A: Safe for Cattle, Swine, Turkey & Sheep
- Drug B: Avoid Equine & Rabbit
- Drug C: Avoid Sheep
- Drug D: For Poultry but not Layers
- Drug E: Withdrawal Period for Beef Cattle
- Drug F: Caution for Meat, Milk, Eggs
- Drug G: Avoid Swine

- Residue
- For Example...
SF/SF Objectives:
- Reducing risks
- Tracking & tracing products
- Lowering product liability rates
- Protecting hard-won brand value
- Decreasing waste, shrink & complaints

Safe Feed = Safe Food

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

Critical Control Points
- Checkpoints throughout the process where the product is monitored.
**Effective Quality Assurance**

- HACCP
- SF/SF
- Regulatory Compliance
- Mycotoxin Screening
- Procurement of Quality Ingredients
- Quality Assurance–Driven Leadership

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**In closing… “Famous Quotes”**

**The Value of Quality**

*Price is what you pay. Value is what you get.*

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

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**Thank You**

**Quality Quotes**

*Quality is everyone’s responsibility.*

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*Quality is not an act, it is a habit.*

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W. Edwards Deming (1900–1993) American Consultant, Statistician, Educator

*Aristotle (384 BC – 322 BC) Ancient Greek Philosopher, Scientist, Physician*

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