**Foaming ↔ Bloat**

- Borrowed from beef production
- Monensin (Rumensin-90, Coban-90)
  - Alters biochemistry pathway in rumen
    - Increased volatile fatty acids
    - Decreased methane
- Poloxalene (Bloat Guard)
  - Reduces frothy bloat in grazing cattle

**Field study**

- Located several sites
- Minimum of four barns (pits)
- Typical grow-finish buildings
  - 1000-1100 head capacity
  - 8-ft deep-pits
  - Same style, age....

The archived presentation is available at: http://articles.extension.org/pages/21819/chronological-webcast-archive
Experimental procedure

• Added Rumensin-90 directly to the pit
  – Similar rates to feeding
• Rates / 100,000 gal manure
  – 0 lbs (control)
  – 2.5 lbs
  – 5.0 lbs
  – 10.0 lbs

Experimental procedure

• Rumensin-90
• Added Bloat Guard
  – Rumensin-90 (control @ 5 lbs)
  – 60 lbs
  – 100 lbs

Site A–Rumensin
**Monensin current status**

- MPCA & Dept Ag “above board”
- Adding 2 – 4 lb after pumping & mix
  - Preventive
- Adding 5 lb per 100,000 gal of manure
  - Control after foam present
- Trend not to add
- Complacency
- Producers worried about other issues

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Complacency
- Producers worried about other issues

Recommendations

- Check pits upon entry (weekly)
- Foam present
  - Treat
  - Pump manure

Recommendations

- Check pits
- Proper ventilation
- Emergency backup generation
- Never shut off
  - Even when empty

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**Recommendations**

- Check pits
- Proper ventilation
- Emergency backup generation

**Never shut off**
- Even when empty

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**Recommendations**

- Check pits weekly
- Proper ventilation
- Eliminate sparks
  - Cigarettes, cigars, pipes, etc.
  - Sparking switches / motors
  - Pilot lights
  - Welding / grinding

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**Recommendations**

- Check pits weekly
- Proper ventilation
- Eliminate sparks
- Monensin addition
  - 2-4 lb right after pumping
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