Practical Considerations for Solid Manure

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Topics of Concern

- Manure Spills
- Discharges from outside manure piles
- Spontaneous Combustion of manure piles

Manure Spills

- Pollution potential
  - Movement across surface
  - Infiltration
  - Easier cleanup

The archived presentation is available at:
http://www.extension.org/pages/Manure_Spills_and_Emergency_Planning
**Areas of Concern**

- Loading areas
- Local Transport
- Long distance hauling
- Fields

**Basic Prevention**

- Driver/land applicator TRAINING!!!
- Clean up spilled manure from loading areas
- Do not overload trucks short or long distances
- Keep covers maintained and cover loads when needed
- Inspect equipment before leaving loading area
- Regular maintenance and calibration scheduled
- Follow application rates specified in a NMP

**Spill Response**

- Human safety always first
- Contact proper authorities and emergency response
- Prevent material from entering surface water
- Scrape and clean up as much material as possible
- Wash manure off roads – if dry manure is rained on it will be extremely slick and dangerous
- Reports and follow-up

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Avoid the News!

Breaking News:
Wednesday, Oct. 29, 2008
Crappy commute: Manure spill halts traffic, causes accidents on Highway 99

Manure Piles

- Dry manures cannot always be immediately land applied from houses and must be stored
- Piling manures outside is acceptable if done properly
- If not done properly, dry manure can become liquid and a discharge can occur

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Manure Storage Fires
Causes

- Heat is produced from microbial activity in manure piles
- The amount of heat produced can be influenced by:
  - Pile size
  - Pile compaction
  - Moisture
  - Layering wet and dry litter

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Manure Storage Fires Prevention

- Height of manure piles should not be > 5 feet
- Monitor temperature! Remove any smoldering material and material > 180°F
- Monitor moisture and protect piles from rain
- Do not mix wet manure with dry manure
- Do not compact manure piles
- Allow plenty of air movement to allow piles to vent naturally

Manure Storage Fires Response

- Look for warning signs: smoldering pile, burning litter smell, or temp > 180°F
- Do not add water!
- Spread out manure (if it is safe to do so) – have fire department on site
- Contact local fire department if structures catch on fire

Additional Resources

- Preventing Fires in Litter Storage Structures
  [http://www.aces.edu/pubs/docs/A/ANR-0915/](http://www.aces.edu/pubs/docs/A/ANR-0915/)
- Preventing Fires in Manure Storage Structures
  PPT presentation:

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Thank You

Next Presenter
Dr. Shawn Hawkins
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