Manure Treatment Technologies Expert Panel

Doug Hamilton (Chair)

Robert Meinen John Chastain

Jactone Ogejo Andrea Ludwig

Jeff Porter Keri Cantrell

Expected Completion Timeline

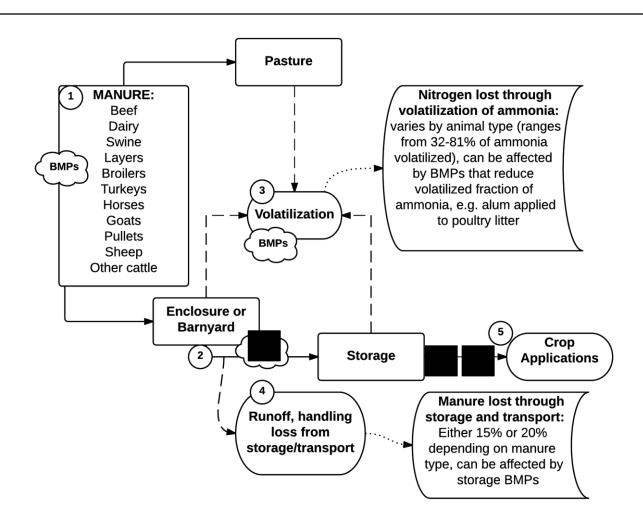
9/01: Technology Chapters to Chair

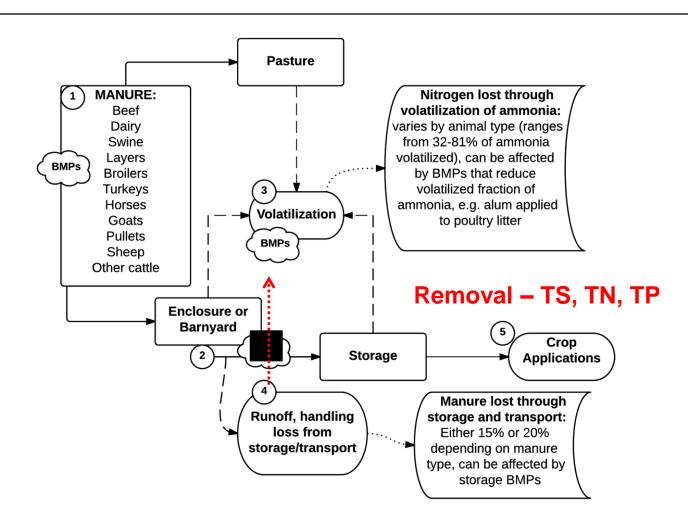
10/01: Chapter Rewrites to Groups

10/15: Comments/Edits of Full Report to Chair

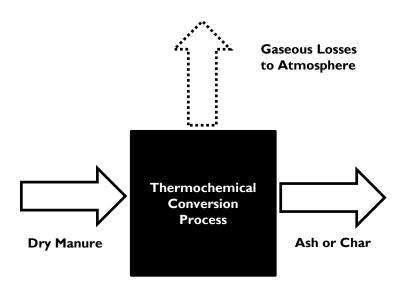
10/31: Final Draft of Full Report to AWG

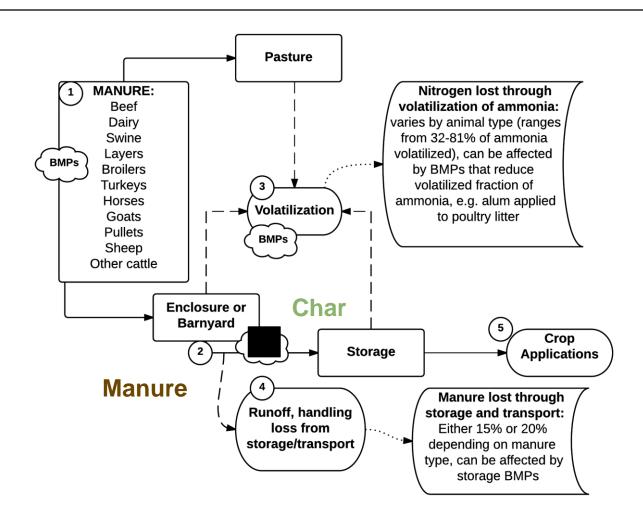
- Thermochemical Processes
- Anaerobic Digestion
- Settling
- Chemical Precipitation
- Mechanical Solid-Liquid Separation
- Composting
- Aerobic Liquid Treatment

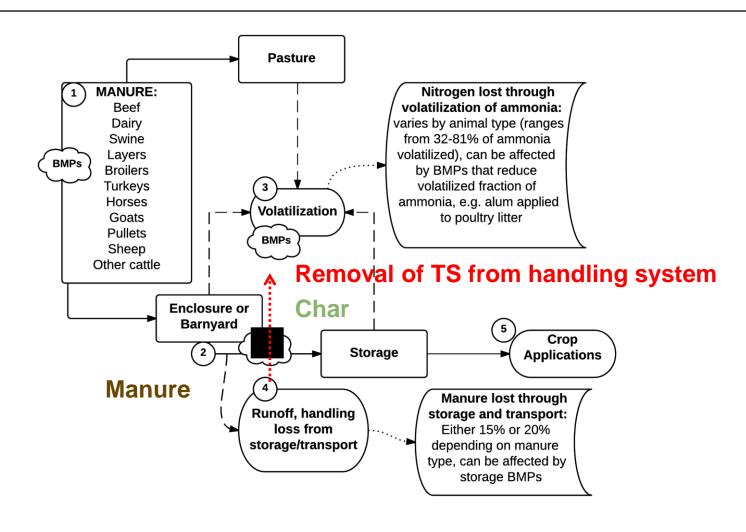




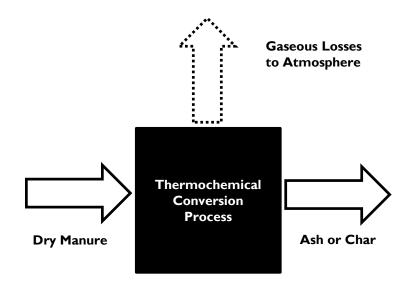
Removal from Manure Handling Chain





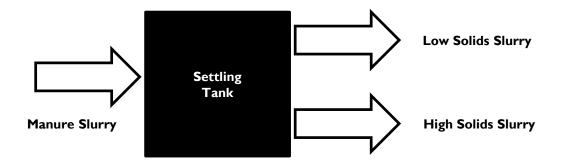


Total Solids (TS) Removal Efficiency

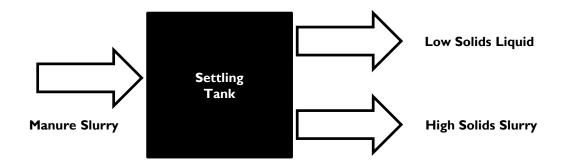


(Mass of TS in Dry Manure - Mass of TS in Ash or Char) X 100 (Mass of TS in Dry Manure)

Removal from Manure Handling Chain



Total Solids (TS) Separation Efficiency



(Mass of TS in Manure Slurry - Mass of TS High Solids Slurry) X 100 (Mass of TS in Manure Slurry)

Three Types of Efficiencies

- 1. Removal Efficiency
- 2. Separation Efficiency
- 3. Transformation Efficiency

1. Fallback Recommendation

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Efficiencies based on manure and technology type.

- 1. Fallback Recommendation
- 2. Process Based Recommendation

- 1. Fallback Recommendation
- 2. Process Based Recommendation

Efficiencies based on technology design and operating parameters

- 1. Fallback Recommendation
- 2. Process Based Recommendation
- 3. Monitoring Based Recommendation

- 1. Fallback Recommendation
- 2. Process Based Recommendation
- 3. Monitoring Based Recommendation

Protocol for determining individual system reductions based on monitoring data

Any Questions?

