

Opportunities for Manure Management in Alberta

Manure Management Update
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Manure Production in Alberta

- **Volume of Manure in Alberta**
 - **55 to 65 million tons**
- **Number of Cropped Acres in Alberta**
 - **52 million acres**
- **Manure Application**
 - **about 1 – 1.1 tons/acre**
- **Reality about 5-10% of Land Base gets Manure**

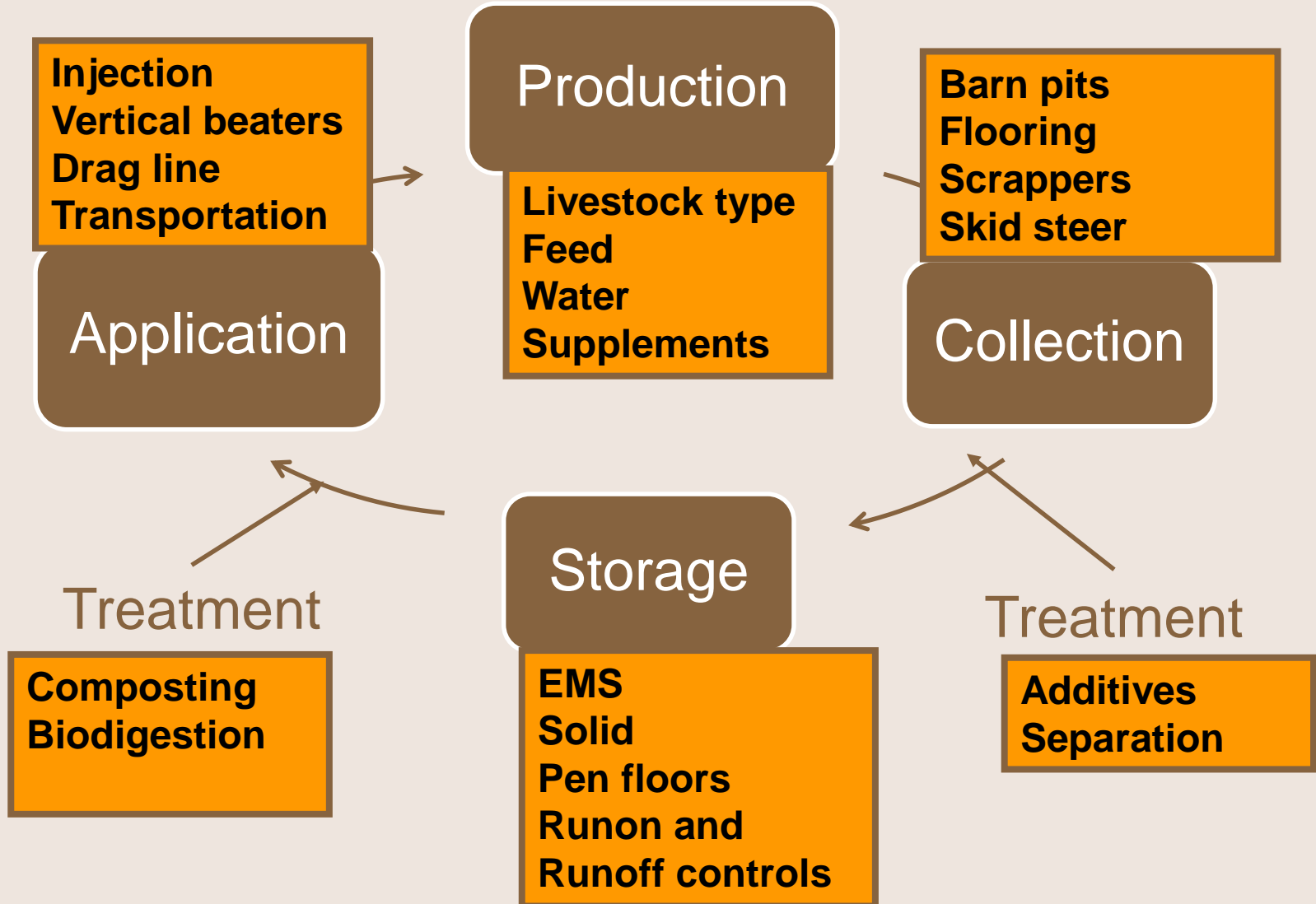
Present practices

- **Environmentally Sustainable Agriculture (ESA) Survey 2016 - 11 Manure Management practices**
- **Higher Adoption**
 - Application frequency 3 years or less – 88%
 - Avoiding application close to waterways – 87%
 - Avoid storage near active wells – 81%
 - Avoiding frozen and snow covered land – 95%
- **Lower adoption**
 - Keeping records – 61%
 - Incorporation – 56%
 - Manure analysis - 35%
 - Application based on nutrients – 29%
 - Application when crops require it – 29%

Producer Challenges

- **Manure valued as a resource not a waste**
- **Distribution of manure**
 - **Economics of transport**
 - **Technologies**
- **Weather conditions**
 - **Application constraints**
 - **Cropping season versus open for application**
- **Nutrient management**
 - **Minimizing nutrient loses**
 - **Nutrient balancing for crop needs**
- **Regulatory compliance**
- **Public perceptions**
- **Understanding true environmental impact**

Manure Management System



What works and what doesn't

- **How do we know what is going to work for Alberta?**
 - Performance
 - Economics
 - Impact on overall system
 - Regulatory fit
 - Environmental impact and improvement
 - Alberta conditions
 - Other benefits or consequences



How do we improve adoption?

- **Identify gaps in information and find answers**
 - Performance
 - Alberta conditions
 - Other provinces/US/Europe
- **Be aware of regulatory consequences - existing and future**



Our Challenge

- **Two way dialogue**
 - What are producers interested in
 - What information do we have
 - What additional information do we need
- **Remaining current**
 - Information is changing
 - New stuff
 - New perspectives
- **Effectively sharing information**
 - Conferences
 - Traditional ways
 - Need to explore news of connecting with producers

How is AF addressing this

- **Manure Technologies team**
 - Information and gaps
 - Fit for Alberta
- **Farm Stewardship Centre**
 - Applied research
- **Support adoption**
 - Incentives (Growing Forward)
 - Extension information
- **Connecting with industry**

Make us part of your process



Farm Stewardship Centre

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Jesse Vandenburg

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Others

310-Farm

Trevor Wallace

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Brian Koberstein

Barrhead

Questions?



Alberta
