Manure Truck Calibration



Areas where we need feedback

- Employee training
- Manure truck specs
- Smartphone and/or computer apps that aid in spreader calibration
- Improvement to calibration technique



Materials and methods for single-pass manure truck calibration

- Tarps dimensions and placement
- Conversion factor
 - Lbs/tarp to tons/acre
- Handheld scales
- Weights
- Width of manure application
- Field conditions



Conversion factors

- 1 pound of manure on the 56"x56" tarps= 1 ton/acre
- 1 pound of manure on the 28"x28" tarps= 4 tons/acre













It takes less than 60 seconds to weigh each tarp and record the data





Aspect ratio

The tarp dimension and configuration that yielded the most consistent results were tarps that were 28"x112" and placed on the center line of the application area.







Challenges

- Tarp dimensions
- Tarp placement
- Truck speed
- •Distance between the back dual tires
- Wind
- Field conditions







Diagnosing a spreader truck problem

Inconsistency due to spreader malfunction

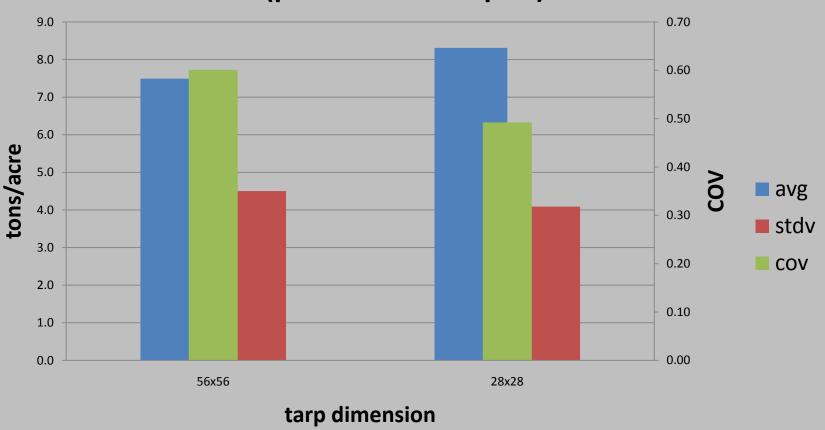
10-35 tons per acre average = 17 tons per acre +/-8 tons



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Manure application with tarp aspect ratio of 1:1 (prior to truck repair)



Manure application vs tarp aspect ratio (post truck repair)

