Bags or Bins
What’s The Difference

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Upright Grain Bins

- Grain Bins are permanent structures.
- They can be used to hold large numbers of bushels of grain.
- They are expensive to build but grain can be held for long periods.
- They can be treated with insecticides.
- They can be aerated to keep grain cooled.
- So insects can’t reproduce as rapidly.
Upright Bins
44,000 bushel size
SLAM

• Sanitation
• Loading
• Aeration
• Monitoring
• All aspects of storing good quality grain depends upon using this strategy.
Insect Samples from Trap
Stored Grain Insects
Indian Meal Moth damage
Insect Probe Trap
Insect Sampling Equipment
Types of Insect Traps
Grain Bin
Insect Probe for Insects
Grain Bag Systems

- Grain Bags are a different method of storing grain for shorter periods.
- They are made of plastic material about 10mil thick.
- They can be left in the harvested fields for later pickup so the harvester can continue to harvest the grain.
- They are usually about 200 ft. in length.
A grain bag is simply a long PE (polyethylene) bag that comes in sizes of:
9 ft. x 200 ft. with a capacity of around 7,700 bushels of wheat or 7,500 bushel of corn. (empty bag weight is 270 lbs.)
9 ft. x 250 ft. with a capacity of around 9,700 bushels of wheat or 9,500 bushels of corn. (empty bag weight is 335 lbs.)
Equipment for Bagging

- Specialized equipment is required to bag grain with the bagging equipment. Costs are about $40000 for bagger and unloader. A couple of producers in Tennessee went in together to purchase the equipment. There is limited usage of this equipment at this time, however; it may be used more as time passes.
Grain Bagger
Potential Problems with Bags

• Not safe from animal damage
• Potential leakage of water into bags
• Cannot aerate or treat once bagged
• Not for long term storage
• Cost about $600 per bag
• Can store about 8,000 bushels per bag
• Perfect for short term storage
Bag System
Using Insect Probe
Placement of Probes
Common Glue Gun
Bags

• If any insecticide needs to be used on grain bags stored it must be put on during filling of the bag.
• Most of the time insecticides aren’t needed
• Grain moisture should not exceed 16% when stored in grain bags.
• Place bags on a slight incline to prevent moisture from collecting under them.
The bag is sealed airtight with a life of 1.5 years in the open, preventing the development and reproduction of fungus and insect. This airtight environment can eliminate the need for chemicals with an average bag cost of 7 cents/bu. of stored grain/ bushel. These unique grain bags allow for storage amounts to vary by simply cutting the bag and resealing it again.
Bag Unloader

Store Your Grain the Easy and Economical Way!
Extractor

Store Your Grain the Easy and Economical Way!

MAINERO EXTRACTOR
Bag Loader

Store Your Grain the Easy and Economical Way!