Two Particular Acres

Pros and Cons of Five Compost Production Methods
Who We Are

- Two Particular Acres and American BioSoils & Compost
- Vertically integrated/centralized management and decentralized operations.
- 3 facilities operating/ 4 additional facilities permitted not yet operating.
- We are manufacturers!
Aerated Piles and Extended Aerated Piles
Bucket Turning

Positive Aspects

- Readily available Equipment
- Low tech
- Low cost cap ex and op ex
- Needed for every other method
- Can create large piles
- Probably doing already
Bucket Turning

Negative Aspects

- Tough to get uniform structure
- No shredding action/overs
- Not readily marketable product
- Long processing times
- Likely odor issues
- Operator needs skills to keep O2 flowing by convection
Manure Spreader Turning

Positive Aspects

- Produces uniform windrows
- More refined product than bucket turning
- Generally available on farm
- No driveways needed
Manure Spreader Turning

Negative Aspects

- Three pieces of equipment
- Labor intensive
- Slow pile building
- Piles not as high as bucket turn
- High op ex (fuel and labor)
Compost Turner

Positive Aspects

- Much faster than previous methods
- More readily marketable product
- Professional appearance
- Time proven method
- Excellent mixing abilities
Compost Turner

Negative Aspects

- Purpose built machine so no other use for it
- Gearbox modification expense
- Windrow size defined by machine
- Poor space management/isleways
- Expensive op ex fuel
Aerated Static Pile (ASP)

Positive Aspects

- Lowest fuel consumption
- Lowest labor cost
- Expand throughput on footprint
- Low cap ex
- Excellent odor control
- Scalable and replicable
- Best method to get O2 into pile
Aerated Static Pile (ASP)

**Negative Aspects**
- No adjustments once constructed
- Electrical infrastructure
- Moisture control is challenging
- Cannot inspect internal pile
- Consumes finished product
Extended Aerated Static Pile

Positive Aspects
- More efficient use of space
- Use existing pipes, blowers etc.
- Less use of finished compost
- 25 to 30% more feedstock
Extended Aerated Static Pile

Negative Aspects

- Same as ASP
- No individual batch control
- DEP regs may cause issues
What is This?
The Ultimate Value Added Compost!