

It's the Pits

Get More from Every Gallon of Manure and Acre

Now, more than ever, is a great opportunity for hog and cattle producers to capitalize on the fertilizer value produced from their own facilities without the hassle often associated with raw manure. How? The key to enhanced value and ease of manure handling is to implement a year around bioaugmentation program.

In fact, an in-field research comparison of raw manure vs. bioaugmented manure showed a five to 15 percent increase in yield favoring bioaugmented manure.

For example, a 200 bushel per acre yield goal with a five percent advantage equals a 10 bushel per acre increase (\$4.50 per bushel x 10 = \$45.00/acre advantage). This is how producers “*Get more from every gallon of manure and acre.*” It’s a win-win situation with “going green” at its best!

Fall Pump-out Prime Time to Evaluate Manure Condition

Manure pump-out is a good time to evaluate manure quality and manure management programs.

Some evaluation points to consider are:

- **Odor** – odor indicates nutrients are being volatilized and lost.
- **Hydrogen sulfide gas** – is deadly and, if present, often results in animal losses.
- **Liquefy manure** – the viscosity of the manure determines its ease of extraction from the pit/lagoon and the amount of agitation required. Remember, time is money. The more agitation required, the more fuel used, which increases costs. Also, the more liquefied the manure, the easier and more uniform it spreads in the field.
- **Bottom sludge** – bottom sludge, normally anaerobic, is from where most manure odors are dispensed.
- **Regaining pit/lagoon capacity** – if the manure solids are not breaking down, pit/lagoon capacity is often lost.

A properly implemented manure management program combined with the right manure treatment technology may eliminate the above listed issues.

Tap into Technology

ProfitPro offers two approaches to enhance the value and ease of handling your manure: self-treat with Microbial Manure Master™ or tap into their Manure Treatment Service. The company stands behind their manure treatment technology and offers a **Performance Assurance Guarantee** with their services.

Also ProfitPro’s **Three-Step Manure Master™ Program** is a way to leverage more value from manure and every acre of crop. The three-step process includes proper manure bioaugmentation, manure enhancement at-application and improved manure nutrient efficiency in-season.

For more information on ProfitPro’s manure treatment technology and services and access to our monthly newsletters and teleconference calls, visit www.manuremaster.com.

Example of Bioaugmentation of Manure

Swine Lagoon with Five Feet of Bottom Sludge



November 2010 Lagoon capacity loss



June 2011

Lifting anaerobic bottom sludge into an aerobic top zone for digestion



August 2011

Regaining lagoon capacity with bottom solids lifted to surface and completely digested

Microbial Manure Master™

Microbial Manure Master is the premier manure treatment technology used to bioaugment the manure. It contains 17 strains of beneficial bacteria, including the aggressive purple non-sulfur bacteria. The Manure Master technology provides enhanced manure digestion that is critical to manure storage related issues and problems. It is designed specifically to provide the following benefits:

- Significantly reduces surface & bottom solids
- Provides a consistent manure slurry from first to last load
- Enhances manure fertilizer value by biological cellular nutrient storage
- Significantly reduces manure mixing at time of draw down

- Reduces barn odor, and odor on land applications
- Reduces Hydrogen Sulfide emissions
- Reduces fly population

In addition to the above benefits, Microbial Manure Master will:

- Enhance manure value on application
- Stimulate root growth
- Fix nitrogen
- Helps control nutrient run off

Microbial Manure Master reduces agitation requirements and improves the ease of extraction and application from pits or lagoons. These benefits, combined with sludge reduction and reduced mixing, more than justify its use.