

It's the Pits

Improving Manure Nutrient Retention and Value at Application

Catawater® AG is an amazing technology when it comes to enhancing the nutrient content and value of manure. When added to the manure at application time, it acts as a natural stimulant, which enables further bioaugmentation of manure and balancing of soil.

Catawater AG technology is based entirely on natural extracts that function in synergistic association with microorganisms, natural elements and natural processes in the environment to accelerate such functions as plant growth, mineral uptake, chemical conversion and decomposition. By stimulating the microbes, the nutrients are cellular bound, which increases nutrient retention.

Catawater AG Benefits Combined with Manure at Application Time

- It enhances the manure nutritional and microbiological activity.
- When agitated into the manure pit, it reduces the emission of gases including hydrogen sulfide (reduces death loss).
- Helps break down manure and soil salts.
- Stimulates soil microbes, which results in the natural balancing of soil nutrients and pH, as well as improved soil aeration, structure and drainage.
- Elevates plant defense mechanisms, which improves plant health, minimizes disease, insect pressure and weather related stress.
- Helps buffer the negative side effects of pesticides in manure and soil, including glyphosate.
- When applied to manure, it triggers an explosion of beneficial microbes in the soil.

Usage Rate

- Apply 3.2 oz per acre of Catawater AG.
Example: Pit has 300,000 gallons of manure to apply at 3,000 gallons per acre.
 - 300,000 gallons at 3,000 gallons per acre = 100 acres will be covered.
 - 100 acres x 3.2 oz per acre = 320 oz or 2.5 gallons Catawater AG.



Fall Application of Catawater AG with Manure Injection

Catawater AG



Control



Doug Rohlik's treatment comparison 2012

Application Methods

- Option 1: Apply to manure tank load.
 - Apply 3.2 oz per acre x the number of acres to be covered by each tank load.
Example: Tank holds 6,700 gallons of manure and the application rate is 3,000 gallons per acre:
 - ♦ Tank holds 6,700 gallons
 - ♦ 3,000 gallons manure applied per acre
 - ♦ Tank load covers 2.2 acres per load x 3.2 oz per acre = 7.04 oz per tank load.
 - ♦ This can manually be added in each tank or through a measuring device on the load stand.
- Option 2: Apply to pit or lagoon.
 - Apply 3.2 oz per acre x the number of acres to be covered with the manure in the pit or lagoon.
Example: 300,000 gallons of manure and the application rate is 3,000 gallons per acre
 - ♦ 300,000 gallon-capacity
 - ♦ 3,000 gallons manure applied per acre
 - ♦ Manure will cover 100 acres
 - ♦ 100 acres x 3.2 oz per acre = 320 oz or 2.5 gallons Catawater AG
 - ♦ Pre-agitate and pour Catawater AG into pit or lagoon while agitating into the manure.

Field Observation of Catawater® AG Benefits when Applied with Manure Application

Catawater AG applied with bioaugmented livestock manure will stimulate your soil biology and work at balancing your soil pH. A client by Verdi, Minn. applied 3,000 gallons of bioaugmented livestock manure with Catawater AG at 3.2 ounces per acre on 92 acres in the spring of 2013. He planned on planting the whole field to soybeans, but the ground worked up nicely, and he changed to half corn and half soybeans. His custom manure applicator left a check strip on the soybean side of the field. By mid-July, the soybeans, where the Catawater AG had been applied, were four to six inches taller than the check strip without Catawater AG.

Doug Rohlik is a custom manure applicator and farms by Seaforth, Minn. He has used Catawater AG with bioaugmented hog manure for the last two years. His soil biology is very active and alive. The condition of his soil allows water to move more freely, which was very evident in June 2013 when six inches of rain fell in three days. Normally, his field would have had a pond or two that would last seven days. This year almost all of the water had drained away by the second day after the last rain. His neighbors still had large ponds seven days later. Doug had no drown out areas while this neighbors had to re-plant their drown outs. By stimulating the soil biology with Catawater AG, Doug is well on the way to healthy soil.

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