

Manure & Odor Treatment (Poultry)

East Valley Poultry, Canada

Background

East Valley Poultry is a family operated farm in Chilliwack, British Columbia, Canada. They supply broiler chickens to a local processor. They grow about 12,000 birds per cycle, shipping some birds at around 38 days and the rest at around 50 days. They are grown in a single barn, using wood shavings as bedding. After every cycle the barn is emptied of the used litter, disinfected, and new bedding is put in.

The farm, like others in the area, is under increasing pressure from local environmental authorities to limit contaminants from manure from entering the environment. Farms also work diligently to limit odors that can be nuisances to others living in the community.

Objectives

The farm was looking for ways to improve the air quality inside and outside the barn, both to see what effect it would have on production efficiency, as well as to mitigate any potential complaints from neighbors.

Solution

After researching several options, the farm contacted BiOWiSH Technologies. BiOWiSH™ Manure and Odor Treatment was chosen as the product best suited to reduce odor generated by intensive poultry rearing. BiOWiSH™ is a composite biocatalyst, a unique blend of microorganisms, enzymes, and co-factors that helps to naturally break.

Implementation

The BiOWiSH™ product (2.1 grams/m² barn area) was mixed with water (1L/m²). The solution was periodically agitated over 12 hours, then evenly applied with a hose and small pump to the fresh bedding in the grow area. The product was applied two days before the arrival of new chicks.

Manure & Odor Treatment Benefits

- Removes rather than masks odors
- Reduces Volatile Organic Compounds (VOCs)
- Significantly reduces ammonia
- Accelerates the decomposition of manure
- Accelerates litter and carcass composting
- Reduces flies
- Safe for people and the environment

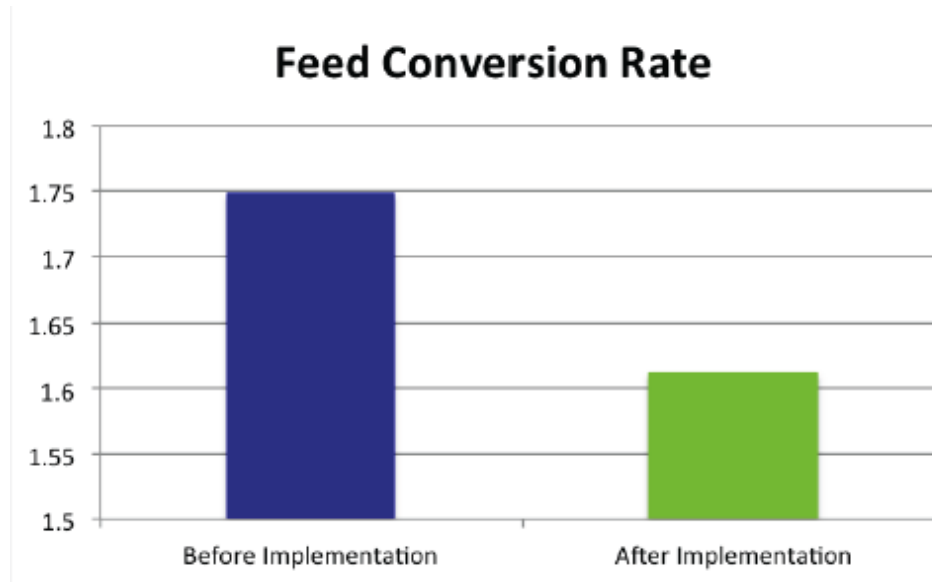
Available Sizes

- 3.5oz/100g
- 2.2lb/1kg
- 11lb/5kg



Results

The production results from the grow periods using BiOWiSH™ Manure and Odor Treatment show a dramatic improvement on the feed conversion rate, from an average Feed Conversion Rate of 1.749 during the six cycles before implementation to an average of 1.612 during the two cycles after.



The farm did not have air quality monitoring equipment, but farm workers reported a discernible odor reduction in the exhaust fan air.

Conclusions

BiOWiSH™ is an effective odor reducer. Implementation also has a positive impact on feed conversion rates when implemented in poultry growing operations.

East Valley Poultry was so pleased with the results that they continue to use BiOWiSH™ Manure and Odor Treatment as a means of odor control and to aid production efficiency.

Contacts

BiOWiSH Technologies

Tel: +1 312 572 6700

Email: animalag@biowishtech.com

Web: www.biowishtech.com



Biological Help for the Human Race™