

Assessing the Nitrogen Content of Penergetic g Treated Manure

In Finland, a Penergetic g “before and after” comparative study was undertaken. Manure samples were taken from a dairy farm’s slurry tank, in the Fall, prior to using Penergetic g and, then again, in the Spring – after having used Penergetic g for a six (6) month period.

In both cases the slurry samples taken were analysed at a lab. The lab results showed that the Penergetic g treated sample contained 1,320 lbs. more Nitrogen per ¼ million gallons of slurry.

In that Nitrogen fertilizer used in Finland is typically 25–27% N, this equates to 5,280 lbs. (2.64 tons) of Nitrogen fertilizer per 250,000 gallons of slurry treated. At \$450.00/ton this equates to \$1,188.00 increase in nitrogen fertilizer.

The cost to treat 250,000 gallons of slurry is \$271.73 [Calculation: based on 25 gal. of slurry produced per cow per day X 5 grams of pen g per week per dairy cow).

This analysis indicates a positive ROI from using Penergetic g of 4.37 to 1.

[Note: All figures were converted from metric to Imperial units and from Euros to US\$. Also, current U.S. (Dec. 2018) costs for Nitrogen fertilizer and Penergetic g were used.]