

# Field Trial on Grass with Penergetic p DeBoer Dairy, Burlington, WA (1200 cow dairy)

72 acre field – 30 acres foliar-treated with Penergetic p and 42 acres untreated.  
When the fields were equalized:

- Penergetic-treated 30 acres yielded 120 X 800 lb. bales \*
- Untreated 30 acres yielded 114 X 800 lb. bales.

\* The cost of the Penergetic p used (at 100 ml/acre) to treat 30 acres was \$240.00.

## Yield Differential

- Penergetic-treated portion produced an extra 6 bales (or 4,800 lbs more hay over the 30 acres)
- Based on current market value for grass hay of this quality of \$190.00 / ton, the extra yield of 6 bales (or 2.4 tons) grass hay is worth \$456.00.

[All \$ figures shown are in US dollars.]

## Protein Differential

The Penergetic p treated hay tested at 0.75 pts more protein than untreated field.  
Current value of protein in NW Washington is \$18.18 a pt. on \$190.00 grass hay.  
Therefore, the extra protein in the Penergetic-treated hay is estimated at \$13.64 per ton.  
Based on 48 tons (over the 30 acres) the total value of the extra protein is \$654.72.

## Return on Investment Analysis

So for a cost of \$240.00, the dairy got a ROI of \$1,110.72 [\$456.00 in yield differential and \$654.72 in extra protein] compared to the untreated field.

This translates into:

- 4.6 times return on investment
- An additional \$870.72 net return over 30 acres
- A net increased return of \$29.02 per acre.



*For additional info please contact:*

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