



## Experience with Using Penergetic P on Alfalfa in Quebec

Based on three years of experience with using penergetic p on alfalfa the following typical results that have been observed in Quebec.

The crop is denser for all types of forage/silage crops: alfalfa, grass or mixed alfalfa/grass. Another noticeable feature of using penergetic p is that crop regrowth, after being cut, is faster. In five (5) days the ground (and tractor ruts) are no longer visible.

### Yield/Production:

When Penergetic p is Used: between 8.5 and 10, tightly packed, 57" round bales

Without Penergetic p: 6 to 7 X 48" round bales

### Quality:

Protein: 25% (with penergetic p) vs. of 20 – 21% (without)

Energy Level: 1.65 (with Penergetic p) vs. 1.45 (without) \*

\* Energy level measured in Mcal/kg

The higher energy level indicated is characteristic of not just alfalfa, but all silage crops treated (e.g. including corn).

Note: at this higher protein and energy levels dairy nutritionists have ended up reformulating feed rations for dairy cows feed this ratio by reducing their daily grain intake by 2.0 kg per cow per day. [See similar results (and reduction in grain feed the cows) for corn which received penergetic g treated slurry and penergetic p in-crop foliar (no synthetic fertilizer)]

### Typical Application Rate:

*Penergetic P. Initial Application (when field first starts to green up): 100 g/ac || Subsequent Applications (after each cut): 100 g/acre \**

\* In the case of multiple cuts of silage (e.g. 6 per year) can reduce rate to 50 – 80 grams after each cut.

*Penergetic k: 100 - 200 g/ac (at the start of season and/or end of year)*

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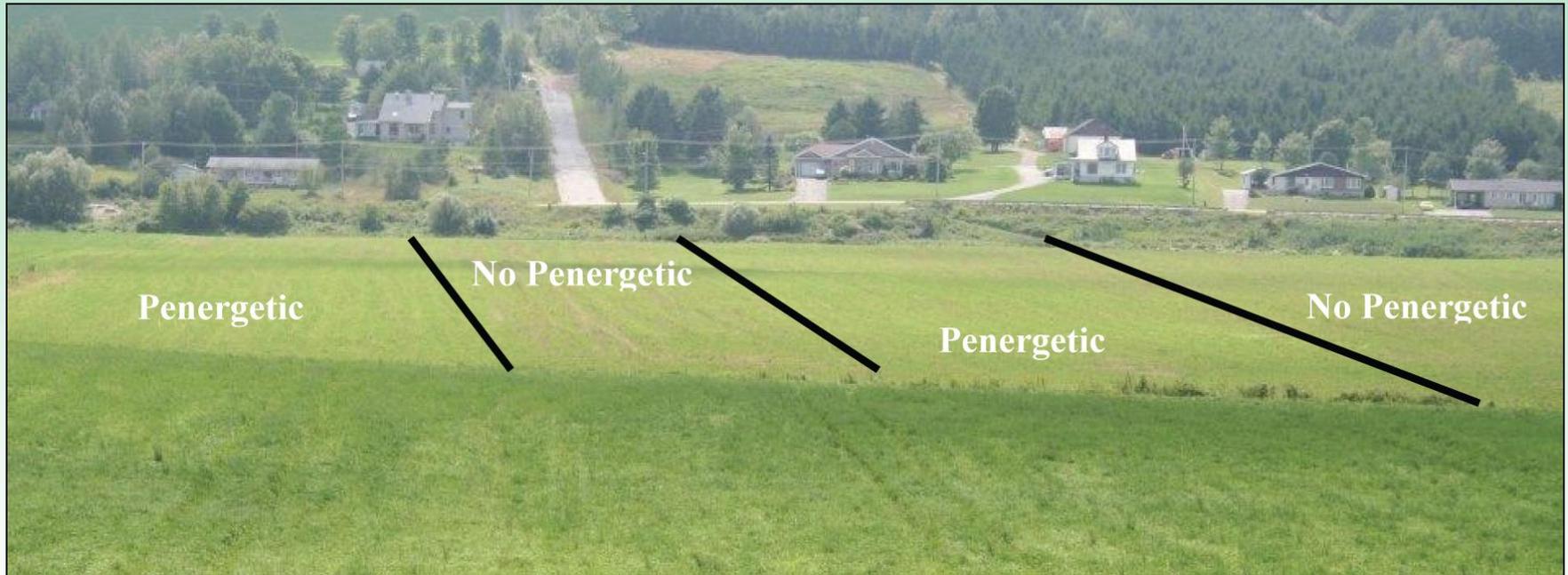
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# Alfalfa – Quebec



Alfalfa 5 days after first cut. Untreated part of field still brown, tractor ruts visible.

Alfalfa in penergetic p-treated portion was thicker, taller, greener and quality higher.