

MIXED GRASS-ALFALFA RESULTS

Southern Alberta (2016)

Mixed grass-alfalfa grown under irrigation in southern Alberta.

Control: 130 acres, grown on alluvial (river bottom land), generally more productive soil.

Penergetic treated: 68 acres grown on lower fertility sandy gravel site. It received 7.0 oz./acre penergetic k (Fall 2015); 7.0 oz./acre penergetic k (Spring 2016) and 3.5 oz./acre penergetic p (foliar applied) when crop 4" – 5" high. [Note: Feed analysis by Down to Earth Labs, Lethbridge, AB.]

Comparative Results (analysis based on dry weight)

<u>Component</u>	<u>Untreated</u>	<u>Penergetic treated</u>	<u>Difference (%)</u>
ADF (%)	29.2	31.4	4.1% higher
NDF (%)	47.0	42.1	10.4% lower
Crude Protein (%)	15.9	17.8	12.0% higher
RFV (%)	131.0	142.0	8.4% higher
Yield (tons/acre)	2.45 tons	3.38 tons	0.93 tons more (38.0% more)



Observations: the Penergetic treated field (despite having lower natural fertility) produced 38.0% more grass/alfalfa than the (naturally higher fertility) Control field and tested for higher protein and RFV. [The operator indicated this was impressive as the field where the Penergetic was used (due to soil conditions) has always been less productive.] Also, as shown above, in the field where Penergetic was used the grass blades were noticeably thicker and wider than in the Control field.

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