

11H50 ALFALFA SILAGE

Pioneer[®] brand 11H50 is an alfalfa silage inoculant product designed to:

- Help improve fermentation, retain nutrient content and enhance digestibility for improved animal performance.
- For stands with a minimum of 80% alfalfa.

Available as a water soluble product in packaging suitable for use in tank mixes or with the Pioneer Appli-Pro[®] SLV application system or as a free-flowing dry granular formulation for easy and convenient application.

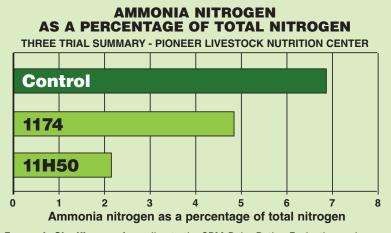
11H50 contains a unique blend of proprietary strains of *Lactobacillus plantarum* formulated to:

- Promote a faster, more efficient fermentation.
- Improve dry matter recovery.
- Reduce ammonia-nitrogen loss, for improved protein quality.
- Improve alfalfa silage digestibility.
- Reduce heating.

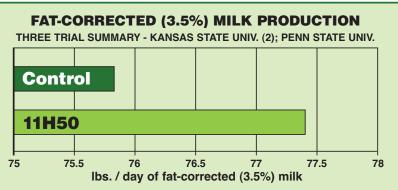








Economic Significance: According to the CPM-Dairy Ration Evaluation and Formulation Model (CPM Ver 1.0), reducing ammonia-nitrogen lowers energy expenditure by reducing the excretion of excessive non-protein nitrogen (termed urea cost in the model). Assuming 10 lbs. of alfalfa silage dry matter intake/cow/day, 11H50 treated silage compared to control silage had an energy-sparing effect from reduced urea cost equal to .042 Mcal Net Energy of Lactation. This .042 Mcal NE-L equates to the energy in 35.7 bushels of corn or the energy to produce 8 lbs. more milk in every ton of alfalfa silage treated with 11H50.



Rations included 40-49% alfalfa silage (dry matter basis).

Economic Significance: The average increase in milk/cow/day of 1.6 lbs may seem incrementally small and very difficult to detect in herds given the daily variations in the bulk tank. However, it becomes much more significant when you calculate that this represents about 45 lbs more "marginal milk" from every ton of alfalfa silage that is fed. If milk grosses .14/lb, this is a return of \$6.30 per ton treated with 11H50. This results in a 4.5:1 return on your investment in 11H50. The return from the additional milk must be added to the value derived from improved dry matter recovery. This represents a total return approaching 6:1 on the investment in 11H50 as an integral part of your alfalfa silage management program.



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