

# Case Study: Foliar Applied

alpha<sup>TM</sup>joule

Location: Alamosa, CO

Alamosa County

Planted: Fall 2016 in a 110 acre irrigated field

Harvest Date: First crop cut June 25, 2019, second crop cut August 3, 2019

Alfalfa Variety: Alforex Seeds PGI 529

Comment: alphajoule was foliar applied to 8-10" tall alfalfa on May 15, 2019 through an irrigator two days after the photo below was taken. alphajoule was applied to one half of the field. Replicated forage samples were taken prior to baling from both halves of the field. At harvest, bale counts were taken and yield calculated using average baler moisture readings. alphajoule was reapplied with the green-up irrigation for second crop. The same protocols will be repeated on third crop. *Note: this side-by-side trial is at 7,400 feet of elevation.*

	First Crop Results	Second Crop Results	Year-to-Date Total/Average
<b>Yield at 15% Moisture</b>			
Without Treatment	2.1 T/A	2.0 T/A	4.1%
With alphajoule	2.2 T/A	2.2 T/A	4.4%
	+5%	+7%	+7%
<b>Crude Protein</b>			
Without Treatment	20.6%	17.5%	19.1%
With alphajoule	21.6%	18.5%	20.1%
	+5%	+6%	+5%
<b>TTNDFD*</b>			
Without Treatment	45.67	38.59	42.13
With alphajoule	48.01	39.82	43.92
	+5%	+3%	+4%
<b>Milk/Ton</b>			
Without Treatment	2,974 lbs	2,418 lbs	2,696 lbs
With alphajoule	2,899 lbs	2,522 lbs	2,711 lbs
	-2%	+4%	+1%
<b>Milk/Acre</b>			
Without Treatment	6,245 lbs	4,836 lbs	5,541 lbs
With alphajoule	6,378 lbs	5,548 lbs	5,963 lbs
	+2%	+15%	+8%
	7,315 lbs more milk from the 55 treated acres	39,160 lbs more milk from the 55 treated acres	



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\* TTNDFD = Total Track Neutral Fiber Digestibility. Reflects real cow digestion and performance by forecasting how high producing cows will react to a forage before feeding it. Score of 37 = minimum, 48 = the goal.

## For More Information:

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