On-farm Alfalfa Trial, 2023 Roberg Farm, MN

Objective: The objective of this on-farm alfalfa trial was to evaluate the impact of the LiquiLife+ on forage yield and quality, and to quantify its economic return through improvements in RFQ, and crude protein.

Treatment and Results:

Treatment	Rate	Application	Yield (ton; dray matter basis)
Control	-	-	0.83
LiquiLife with Liquid Carbon*	5 gal/ac	Broadcast	1.26

*5 gal/ac Boost was used as the liquid carbon food source for LiquiLife

Forage Quality (%)	LiquiLife	Control	Comment
Crude Protein	**24.13**	19.76	**Higher** is better
ADF	**29.39**	30.91	**Lower** is more digestible
NDFom	**34.79**	36.42	**Lower** is more digestible
NDFD30	**49.07**	47.61	**Higher** is more digestible
uNDF240	**15.62**	16.79	**Lower** is more digestible
Calcium	**1.54**	1.43	**Higher** is better
RFQ	**180.85**	169.61	**Higher** is better

Note: The application of LiquiLife was made before the 1st cutting; these test results are from the 2nd cutting

Key agronomic takeaways from the trial:

- Application of LiquiLife increased fresh alfalfa yield by 43% as well as forage quality