



# Redmond Minerals Replicated Alfalfa Trial

For the past 60 years, **thousands** of customers and **millions** of animals have used Redmond Agriculture's program and never looked back. Switching to Redmond is a small shift that makes a **huge difference**.

**First Year Trial Design** This trial was set up to determine the effect of Redmond Salt, Redmond Conditioner, and Redmond SR 65 on alfalfa production compared to the standard N-P-K program. Humates were also included to determine their influence on Redmond SR 65.

*All treatments received manure at 11.5 tons/acre. All treatments were done in 4 replicates.*

## Production Results

AGRES of Wisconsin, LLC

ALFALFA			
TREATMENT	TDN	RFV	YIELD
1. Manure Only	51.7	91.5	16.4
2. Man. + 100 lb Salt + 13-9-19	49.7	85	17.7
3. Man. + 200 lb Conditioner + 13-9-19	50.7	88	17.6
4. Man. + 300 lb SR 65 + 13-9-19	52.9	95	18.3
5. 13-24-48 + Manure	52.8	93	17.6
6. Man. + 300 lb SR 65	55.1	101	16.5
7. Man. + 300 lb SR 65 + Humates	53.6	97.5	18.1

### Conclusion

*Redmond SR 65 could be helpful in raising the feed quality of alfalfa. NPK fertilizer did not have the same effect on alfalfa when added to SR 65 like it did with corn silage. SR 65 outperformed either Redmond product alone and combined with manure appears to be a viable option for plant quality and yield.*

**Second Year Trial Design** Seeing that the SR blends performed best, this test was designed to find which combination might perform best all by itself. No commercial fertilizer or manure was used on any treatment this year, just commercial fertilizer on the Control.

TREATMENT	TDN	RFV	YIELD
Control (0-0-80)	67	195	41.3
100 lb SR 65	66	186	41.1
300 lb SR 65	67	186	40.4
100 lb SR 35	68	193	37.1
300 lb SR 35	68	202	39.3
½ rate Control + 50 lb SR 65	67	189	35.4
½ rate Control + 50 lb SR 35	67	183	37.9
100 lb SR 65 + 100 lbs CaNO <sub>3</sub>	66	182	43
100 lb SR 65 + 50 lbs CaNO <sub>3</sub>	67	191	40.6

### Conclusion

*Differences minimal in this trial for alfalfa. The SR 35 blend tended to have slightly higher Relative Feed Value, but not yield. As with corn silage, cutting the rate of Redmond products seemed to have a negative effect on performance. It appears that Redmond along with manure is a great option for feed quality compared to regular fertilizer.*

ALFALFA	CONTROL	REDMOND TREATMENT	% INCREASE
Organic Matter Prior to Study	2	2	
Organic Matter End of Study	2	2.3	15%
Cation Exchange Capacity Prior	5.6	5.6	
Cation Exchange Capacity End	6.8	7.5	10%

*Soil Tests were taken prior to any Redmond treatment on year one, and again at the conclusion of the growing season of year two. Results in the following table show increases in the amount of organic matter, cation exchange capacity, mineralizable nitrogen, and carbon biomass.*