



Redmond Minerals

Increases alfalfa quality and yield by improving soil health*



Since the 1950s, thousands of customers and millions of animals have used Redmond Minerals and never looked back. Switching to Redmond is a small shift that makes a huge difference.

First Year Alfalfa Trial

Alfalfa Production Results

Treatment	TDN	RFV	Yield	Conclusion
1. Manure Only	51.7	91.5	16.4	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. <i>*AGRES of Wisconsin, LLC</i>
2. Manure + 100 lb Salt + 13-9-19	49.7	85	17.7	
3. Manure + 200 lb Conditioner + 13-9-19	50.7	88	17.6	
4. Manure + 300 lb SR 65 + 13-9-19	52.9	95	18.3	
5. 13-24-48 + Manure	52.8	93	17.6	
6. Manure + 300 lb SR 65	55.1	101	16.5	
7. Manure +300 lb SR 65 + Humates	53.6	97.5	18.1	



Second Year Alfalfa Trial

Objective

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, just commercial fertilizer in the control group.

Alfalfa Production Results

Treatment	TDN	RFV	Yield	Conclusion
Control (0-0-80)	67	195	41.3	Differences minimal in this trial. The SR 35 blend had a slightly higher Relative Feed Value, but not yield. As with corn silage, cutting the rate of Redmond products had a negative on performance. It appears that Redmond along with manure is a great option for feed quality compared to regular fertilizer. <i>*AGRES of Wisconsin, LLC</i>
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	
1/2 rate Control + 50 lb SR 65	67	189	35.4	
1/2 rate Control + 50 lb SR 35	67	183	37.9	
100 lb SR 65 + 100 lbs CaNO ₃	66	182	43	
100 lb SR 65 + 50 lbs CaNO ₃	67	191	40.6	

How does Redmond Work?



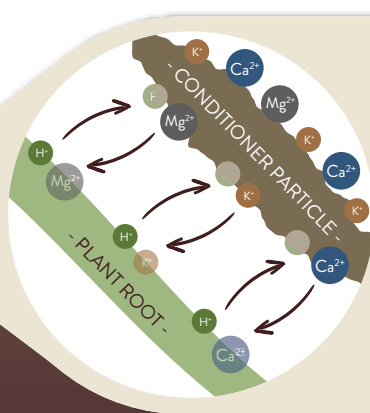
Alfalfa Soil Quality Test Results

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

Alfalfa Soil Quality	Control	Redmond	% Increase
Organic matter prior to study	2	2	
Organic matter end of study	2	2.3	15%
Cation exchange capacity prior to study	5.6	5.6	
Cation exchange capacity end of study	6.8	7.5	10%



Increasing Cation Exchange Capacity (CEC)



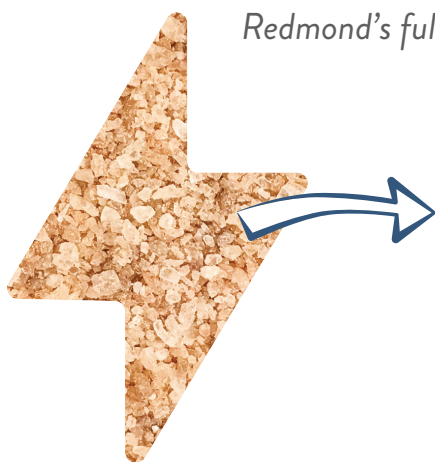
Negatively charged conditioner particles hold and store positively charged cations.

Plant roots exchange hydrogen cations for essential nutrients it cannot produce for itself.



Increasing Organic Matter with Soil Electrical Conductivity (EC)

Redmond's full spectrum of sea minerals improves soil electrical conductivity (EC) levels



Invigorates soil based microbe colonies; increasing their populations and soil organic matter as they reproduce, metabolize, and pass away throughout their life cycle



Gives plants and soil organisms a more complete nutrient profile of trace minerals to fuel the soil food web



Helps your plants better utilize nitrogen in the soil by supporting nitrogen fixing bacteria colonies



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