



Redmond Minerals

Improves corn silage by boosting soil quality*



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.

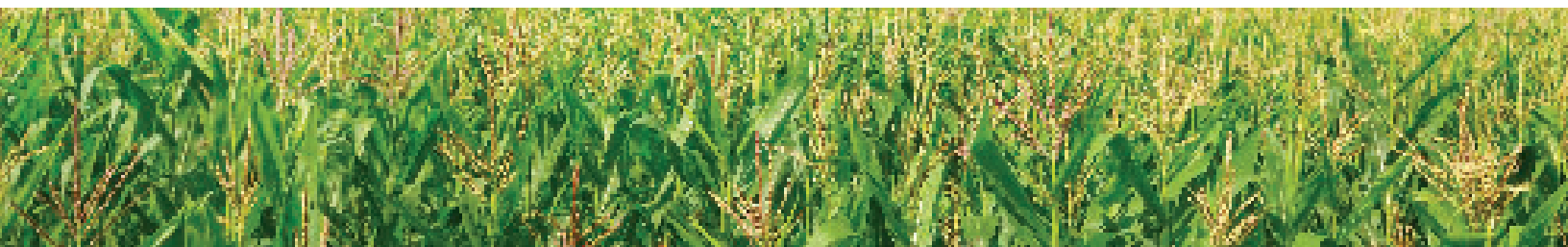
First Year Corn Silage Trial

Objective

To determine the effect of Redmond Salt, Conditioner, and SR 65 on corn silage compared to the standard NPK 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.

Year 1 Corn Silage Results					
Treatment	TDN	RFV	Starch	Yield	Conclusion
1. Manure Only	72.2	173	33	19.6	Redmond Salt + Conditioner (SR blends) produced higher quality feed than either component alone, and the SR blend produced higher quality feed than manure alone. A boost with reduced rate of nitrogen and even some phosphorus and potassium helped. Though the control group had the highest yield, it was below all other treatments for feed quality.
2. 100 lb Salt + 81-9-19	71.8	161	32.4	23.2	
3. 200 lb Conditioner + 81-9-19	71.1	152	29.2	21.9	
4. 300 lb SR 65 + 81-9-19	73.5	180	36.7	22.6	
5. 81-9-19	70.2	143	29.1	23.8	
6. 300 lb SR 65 + 51# N	75.8	220	44.7	22.3	
7. 300 lb SR 65 + 51# N + #10 Humates	72.4	167	35.8	22.2	

*AGRES of Wisconsin, LLC



Second Year Corn Silage Trial

Objective

To measure the effects of Redmond treatments without any other fertilizer or manure against the control program of regular fertilizer as determined by the soil test.

Year 1 Corn Silage Results				
Treatment	TDN	Starch	Yield	Conclusion
Control (150-0-140)	73.5	34.3	20.5	Even though no nitrogen was applied with the Redmond treatments, Redmond still produced higher starch and yield than the control group. Control did have the highest TDN values. Reduced Redmond treatments of 50 lbs/acre appears to be too low to have the desired effect. After 2 years of Redmond treatments on the soil, feed quality of the corn silage is clearly higher and yield held or improved.
100 lb Redmond SR 65	71.4	30.6	20.1	
300 lb Redmond SR 65	71	31.4	22.1	
100 lb Redmond SR 35	72.9	38.4	20.6	
300 lb Redmond SR 35	72.9	35.8	21.3	
1/2 rate Control + 50 lb SR 65	71.5	28	21.3	
1/2 rate Control + 50 lb SR 35	70.9	28.4	21.2	
100 lb SR 65 + 100 lb CaNO ₃	72.9	33.4	21.3	
100 lb SR 65 + 50 lb CaNO ₃	71.9	33.3	21.1	

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How does Redmond Work?



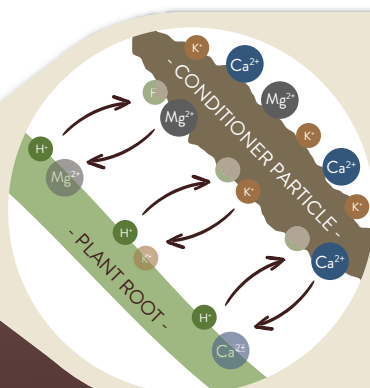
Alfalfa Soil Quality Test Results

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 that Redmond products increase the amount of organic matter, cation exchange capacity, mineralizable nitrogen, and carbon biomass in the soil.

Corn Silage Soil Quality	Control	Redmond
Mineralizable Nitrogen (lbs/Ac/Year)	12.1	20.8
Biomass Carbon (ppm)	484	830



Increasing Cation Exchange Capacity (CEC)



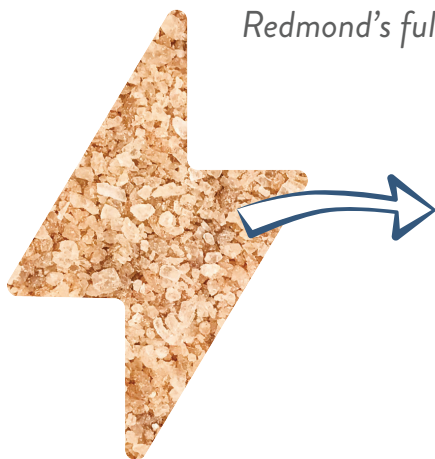
Negatively charged conditioner particles hold and store positively charged cations.

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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