





601

Nature has it right"



What are Sea Minerals

"The sea is characterized by elements in a liquid crystalloid state, defined as a crystallizable substance which, when dissolved in a liquid will diffuse readily through vegetable or animal membranes."

> -Dr. Maynard Murray Sea Energy Agriculture



AN

Sea Energy in Agriculture Renewing the Soil with Sea Solids





PEDMO

What is Contained in Sea Water

- Volcanic activity
- Underwater vents
- Erosion





Why Sea Minerals

"The quantitative analysis of elements in human blood has essentially the same profile as the quantitative analysis of elements found in ocean water, including large amounts of sodium chloride."

- Dr. Maynard Murray, Sea Energy Agriculture



Sodium & Blood

601

"Sodium makes up 93% of the basic mineral elements in the blood serum and is the chief cation regulating blood pH."

- Larry L. Berger, Ph.D. Professor of Animal Nutrition











Lower Mineral Content in US Vegetables

GAR



Average Mineral Content in Selected Vegetables, 1914 - 1997.

Sums of Averages of Calcium, Magnesium and Iron in Cabbage, Lettuce, Tomatoes and Spinach.

Source: Lindlahr, 1914; Hamaker, 1982; US Department of Agriculture 1963-1997

REDMO

AgRes LLC Alfalfa Trial (Independent Research Company)

ENE

Trial Design--Alfalfa

4 Replicates

7 Treatments

Manure Only Manure + 100 lb Redmond Salt + 13-9-19 lbs NPK Manure + 200 lb Redmond Conditioner + 13-9-19 NPK Manure + 300 lb Redmond SR 65 + 13-9-19 NPK Manure + NPK 13-9-19 Manure + Redmond SR 65 Manure + Redmond SR 65 + 10 lb Humates



AgRes LLC Corn Silage Trial (Independent Research Company)

ANA

Trial Design--Corn Silage

4 Replicates

7 Treatments

Manure Only Manure + 100 lb Redmond Salt + 81-9-19 lbs NPK Manure + 200 lb Redmond Conditioner + 81-9-19 NPK Manure + 300 lb Redmond SR 65 + 81-9-19 NPK Manure + NPK 81-9-19 Manure + Redmond SR 65 + 51 lb N Manure + Redmond SR 65 + 51 lb N



AgRes LLC Alfalfa Trial

601

	Harvest				
Treatment	TDN	RFV	Milk/Ton	Wt	Cost/Ac
Manure Only 100 lb Redmond Salt + NPK 200 lb Conditioner + NPK					
300 lb SR 65 + NPK	52.9	95	2075	18.3	66
NPK	52.8	93	2078	17.6	25
300 lb SR 65	55.1	101	2190	16.5	*39-54
300 lb SR 65 + Humates	53.6	97	2201	18.1	84

Blue and Red are 1st & 2nd Place Treatments without numbers were lower than the ones shown *Application rate trials showed 200 & 300 lbs close in quality



AgRes LLC Corn Silage Trial

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				Harvest		
Treatment	TDN	RFV	Starch	Milk/Ton	Wt.	Cost/Ac
Manure Only						
100 lb Redmond Salt + NPK						
200 lb Conditioner + NPK						
300 lb SR 65 + NPK	73.5	180	36.7	3211	22.6	88
NPK**	70.2	143	29.1	3158	23.8	35
300 lb SR 65 + N	75.8	220	44.7	3507	22.3	*24-82
300 lb SR 65 + Humates						

Blue and Red are 1st & 2nd Place *Application rate trials showed 100 lbs of SR 65 to be an economical option for the quality **NPK alone was lowest of all treatments All other treatments were in the middle ranges



Total Digestible Nutrients (TDN) Grass - 5 Pooled Field Trials



Relative Feed Value (RFV) Grass - 5 Pooled Field Trials

61







Total Digestible Nutrients (TDN) Alfalfa - 8 Pooled Field Trials



Relative Feed Value (RFV) Alfalfa - 8 Pooled Field Trials

OU.





G. G.--Soren & Vida Dryland Wheat, Montana

	50 lbs. 11-52-0 85 lbs. 46-0-0	50 lbs. SR 65 85 lbs. 46-0-0
Bushels/Ac.	35	39
Test Wt.	57.5	58.6
CP%	16.3	14.3



G. G.--Soren & Vida Dryland Wheat, Montana

	50 lbs. 11-52-0 85 lbs. 46-0-0	50 lbs. SR 65 85 lbs. 46-0-0
Rev./Ac.	296	331
Cost/Ac.	17.5	8.15
Net Rev./Ac.	278.5	322.85





Parasitic Nematodes

GAR

	Total Parasitic	% Parasitic
Control	143	15.4
Treated	56	7.9

Table 1. Average total parasitic nematodes and percent parasitic nematodes in both the control and treated strips per 100 ml. of soil



Research Results Summary

- Redmond Salt drives microbial action, more N/Ac/Yr, more biomass carbon
 TDN is higher
- ADF & NDF decrease
- RFV and RFQ significantly improve
- Redmond is better than negative control
- .- Redmond makes other fertilizer programs work better



How Does This All Happen?

ENE

- High Cation Exchange Capacity (CEC)
- High Electrical Conductivity
- Nutrients are becoming available and getting up into the plants
- 60+ naturally occurring elements all working in synergy.
- Has the ability to detoxify microbial life in soil



APPLICATION

Dry Application

601

SALT: 25 - 100 lbs/acre

CONDITIONER 100 - 200 lbs/acre

SR 65: 200 - 300 lbs/acre



Foliar Application

601

610

SALT: 3 - 5 lbs/acre (4 or 5 times/year)











SR – 65 Coarse



