# **Alpine Ammonium Thio-Sulphate**

## Functions of Sulfur

- 4<sup>th</sup> major plant nutrient
- Increase efficiency of nitrogen use by plants
- Increase protein in wheat
- Improve the physical conditions of soils

#### Why do we suddenly need to apply sulfur?

- Implementation of Clean Air Act Amendments of 1990 addressing acid rain
- Higher yields=greater crop removal of sulfur
- The increased use of sulfur-free fertilizer
- Decrease in manure application

Crop Removal of	οτ	Sultur	(Agronomy Handbook)	

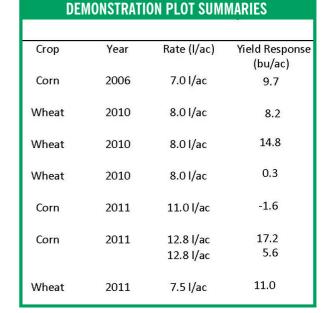
Crop	Unit	Per unit	Yield	Total Crop removal
Wheat	Bushel	0.10 lbs	100 bu	10 lbs
Corn (grain)	Bushel	0.07 lbs	180 bu	12.6 lbs
Corn (silage)	Ton	0.9 lbs	20 ton	18 lbs
Soybeans	Bushel	0.20 lbs	45 bu	9 lbs
Canola	Bushel	0.20 lbs	60 bu	12 lbs

## Alpine Ammonium Thio-Sulphate:

- Comprised of equal amounts of sulfate S and elemental sulfur. The sulphate form of sulphur is immediately available to the plant, whereas elemental sulfur can take 1-2 weeks to undergo oxidation
- Contains approximately 2.9 lbs S and 1.3 lbs N per US gallon

## Additional Benefits:

- Improves plant utilization of UAN solutions by acting as a nitrification inhibitor
- Improves availability of Iron, Zinc, Copper & Manganese
- Improve Phosphate plant up-take
- Mixes well with 28%-32% UAN







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