

Alpine Ammonium Thio-Sulphate

Functions of Sulfur

- 4th 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 Sulfur (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

DEMONSTRATION PLOT SUMMARIES

Crop	Year	Rate (l/ac)	Yield Response (bu/ac)
Corn	2006	7.0 l/ac	9.7
Wheat	2010	8.0 l/ac	8.2
Wheat	2010	8.0 l/ac	14.8
Wheat	2010	8.0 l/ac	0.3
Corn	2011	11.0 l/ac	-1.6
Corn	2011	12.8 l/ac	17.2
		12.8 l/ac	5.6
Wheat	2011	7.5 l/ac	11.0



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