

## Topdress Nitrogen Applications on Winter Wheat: 3 Site Average (18-310, 512, 908)

## Experiment Info:

**Objective:** 

Ехреп	
Planted:	10/20/2017
Harvest:	7/9/2018
Yield Goal:	bu/A
Target Fert .:	
Variety:	Sunburst
Population:	
Row Width:	7.5"
Prev. Crop:	
Plot Size:	15 x 210

Replications: 4

Soil Test Values (ppm):		
pH:	7.1	
CEC:	6.2	
%OM:	1.6	
Bray P1:	17	
Bicarb P:	8	
K:	45	
S:	14	
%K:	1.9	
%Mg:	17.1	
%Ca:	79.2	
%H:		
Zn:	.8	
Mn:	4	
B:	.4	

## To compare topdress Nitrogen sources and rate effects on winter wheat yield across 3 different sites.

AgroLiquid offers two primary Nitrogen sources that are very effective as a topdress nitrogen source for winter wheat. Both High NRG-N and PrimAgro N contain sulfur which is needed in large quantities in a wheat crop and also helps with nitrogen utilization by the plant. Both these products are routinely compared against conventional nitrogen sources used for wheat topdress such as 28% UAN and Urea. In addition to the two conventional N sources, eNhance was used with 28% UAN at a reduced rate. eNhance aids in the stabilization and increased plant utilization of UAN products. The target N rate for these experiments were 120 lb/A.

All treatments were applied at green up on April 26<sup>th</sup>. Liquid treatments were broadcast using streamer nozzles and urea treatment was spread using an air boom dry spreader.



## Conclusions:

- 30 gal PrimAgro N yielded nearly identical to 40 gal 28% UAN across the 3 sites.
- The reduced rate of 28% UAN with the addition of eNhance yielded only 1.1 bu/A less than the full rate of 40 gal 28% UAN.
- PrimAgro N at 4 lb N/gal efficiency continues to be an effective source of Nitrogen at volume rates equal to that of High NRG-N. However in corn, the equivalency is 4.25 lb N/gal. It is likely that this equivalency level will now apply to wheat.