TRIAL DETAILS

Research Facility- Performance Crop Research
Collaborator- Melissa Nelson
Locations: Great Bend, Kansas
Crop- Chrome Hard Red Winter Wheat 7.4 in rows, 100lb/acre
Fertilizer- Applied 3/16/2021, 60lbs per acre
Objective- To show EZ-N treated UAN 32% provides an economic benefit when compared to other nitrogen stabilizers

YIELD RESULTS

TREATMENT	YIELD	COST/ACRE	RETURN/ACRE
CONTROL	69.7 BUSHEL		
EZ-N 0.125% V/V	73.8 BUSHEL	$3.45	+4.1 BPA $32.8
NBPT	69.5 BUSHEL	$3.75	- 0.2 BPA -$1.60

****WHEAT PRICE $8.00 PER BUSHEL**

SUMMARY

Rainfall of at least 0.25 inches occurred approximately two days after application.This rain event reduced the incidence of volatility. This is the reason NBPT did not provide an economic response.

EZ-N provided an economic response due to its ability to provide a more accessible form of nitrogen to the plant. Wheat prefers nitrogen in the ammonium form. The plant uses less energy to utilize nitrogen and convert it to amino acids in the roots.

The ability to influence ammonium is relevant to UAN because, in addition to the 25% ammonium content, 50% of the nitrogen from the urea component ofUAN converts to ammonium in 2-4 days. Treating UAN with EZ-N ensures the maximum amount of nitrogen stays in ammonium form for longer.