



Nebraska On-Farm Research Network

Zinc and Phosphorus Foliar Topdress in Wheat

Study ID: 025155201402

County: Saunders

Soil Type: Tomek, Filber, and Fillmore silt loam

Planting Date: 10/12/2013

Harvest Date: unknown

Population: 2.1 bu/ac (125#/ac)

Row Spacing: Drilled 7.5"

Hybrid: Overland Wheat

Reps: 3

Soil Test Values: not available

Previous Crop: Soybeans

Tillage: No-Till

Herbicides: 0.9 oz/ac Harmony Extra on 4/19/14

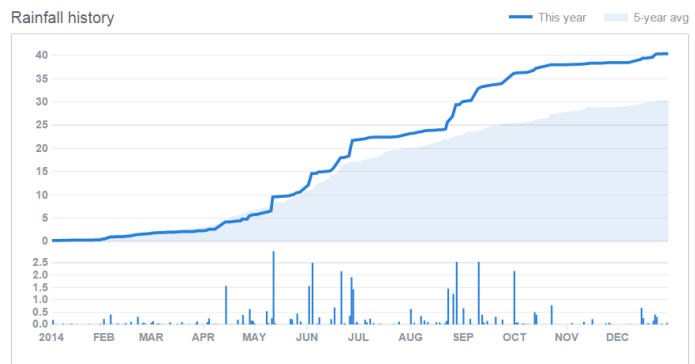
6 oz/ac 2,4-D on 4/19/14

Insecticides/Fungicides: Evergol Energy seed treatment

7 oz/ac Prosaro on 6/5/14

Irrigation: not irrigated

Rainfall history



Introduction: The purpose of this study was to determine if foliar applied zinc and phosphorus increased the grain yield of wheat. All treatments were applied on 4/5/14. The treatments are as follows:

Treatment 1: Nitrogen only (23 gal/ac UAN 32%)

Treatment 2: Nitrogen + Nulex 20 Zinc (23 gal/ac UAN 32% + 1 qt/ac Nulex 20 Zinc)

Treatment 3: Nitrogen + Black Label® Zn (23 gal/ac UAN 32% + 1 gal/ac Black Label® Zn)

(Guaranteed analysis for products used are below.)

NULEX 20 ZINC	
16-0-0	
Zinc Micronutrient	
GUARANTEED ANALYSIS	
Total Nitrogen (N).....	16.0%
16.0% Ammoniacal Nitrogen	
Zinc (Zn).....	20.0%
Derived from: Zinc Chloride, Anhydrous Ammonia and Zinc Sulfate.	

Black Label® Zn	
6-20-0 0.77 Zn	
GUARANTEED ANALYSIS	
Total Nitrogen (N).....	6.00%
5.00% Ammoniacal Nitrogen	
0.30% Nitrate Nitrogen	
0.70% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	20.00%
Zinc (Zn).....	0.77%
0.77% Water Soluble Zinc (Zn)	
Derived From: Anhydrous Ammonia, Urea-Ammonium Nitrate Solution, Phosphoric Acid and Zinc Sulfate	
ALSO CONTAINS NON-PLANT FOOD INGREDIENT:	
SOIL AMENDING INGREDIENTS:	
7.1% Humic Acids derived from Leonardite ore.	
92.9% Other Ingredients	

Sponsored by:



In partnership with:



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska—Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska—Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska—Lincoln and the United States Department of Agriculture.



Nebraska On-Farm Research Network

Results:

	Yield† (bu/acre)	Moisture (%)	Test Weight (lb/bu)	Net Return ‡
Trt 1: N only	78 A*	12.1 A	57.0 B	\$434.88
Trt 2: N + Nulex 20 Zinc	82 A	12.4 A	58.0 AB	\$456.44
Trt 3: N + Black Label® Zn	82 A	12.1 A	58.3 A	\$448.63
<i>P-Value</i>	<i>0.2064</i>	<i>0.5616</i>	<i>0.0772</i>	--

†Bushels per acre not corrected for moisture.

*Values with the same letter are not significantly different at a 90% confidence level.

‡Net return based on \$6/bu wheat price, \$33.12/ac for treatment 1 products, and \$35.56 for treatment 2 products, and \$43.37 for treatment 3 products. No application cost is included as all treatments shared this cost.

Summary: There was no significant difference in yield for any of the treatments tested.

Sponsored by:



In partnership with:



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.
University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.