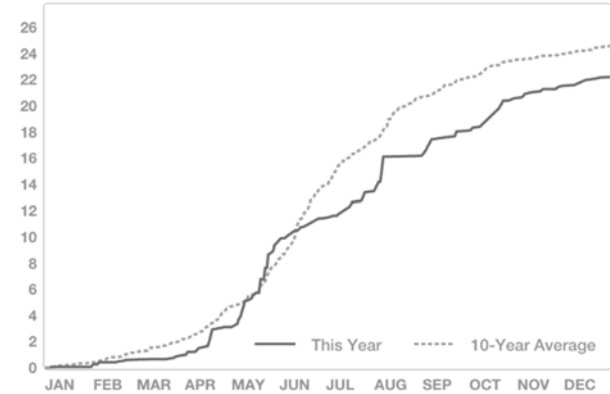


# Nebraska On-Farm Research Network

## Foliar Iron Fertilizer on Popcorn

**Study ID:** 190029201502  
**County:** Chase  
**Soil Type:** Woody fine sandy loam; Ascalon fine sandy loam;  
**Planting Date:** 5/2/15  
**Harvest Date:** 10/20/15  
**Population:** 29,000  
**Row Spacing (in.):** 15  
**Hybrid:** 427  
**Reps:** 4  
**Previous Crop:** Wheat  
**Tillage:** No-Till  
**Herbicides:** *Pre:* Lumax on 5/14/15 *Post:* 2 oz/ac Mustang Max and 4 oz/ac Status on 6/13/15; 12 oz/ac Medal on 7/1/15  
**Seed Treatment:** Cruiser 250  
**Foliar Insecticides:** Unknown  
**Foliar Fungicides:** Quilt on 7/23/15  
**Soil Samples:**

**Fertilizer:** 30 lb/ac 30-30-0-5 Dry on 4/1/15; 40 lb/ac 32-0-0 on 5/4/15; 29 lb/ac 32-0-0 on 7/8/15 and 7/22/15  
**Irrigation:** Pivot, Total: unknown  
**Rainfall (in.):**



Depth	O.M.	pH	C.E.C.	Total NO3	P Bray 1	P Bray 2	K	Mg	Ca	S	Zn	Mn	Fe	Cu	B
	--%--			---lb/ac---											
-----ppm-----															
0-8"	1.0	6.1	7.8	20.0	43.0	52.0	210	170	957	10.0	2.7	6.0	48.0	1.3	0.4

**Introduction:** This study is looking at the effect of foliarly-applied Versa Iron (Fe) liquid Fe on corn yield and nutrient concentrations in leaf tissue samples under high soil pH conditions (pH 7+). The foliar treatment used in this study was applied at a rate of 2.5 qt/ac, mixed with Lockdown surfactant (0.3 lbs/ac), and was applied aerially on June 26th at the V6 growth stage. Leaf samples were collected from treated and untreated strips approximately 1 month after application and analyzed for nutrient concentrations. Yields from treated and untreated strips were recorded with a yield monitor.



Product information from: [http://www.agrian.com/pdfs/Versa\\_Fe\\_Liquid\\_Label1.pdf](http://www.agrian.com/pdfs/Versa_Fe_Liquid_Label1.pdf)

Results:	Yield (bu/ac)†	Yield (lb/ac) †	Marginal Net Return (\$/ac)‡
Check	119 A*	6,652 A	\$1263.88
Versa Fe	121 A	6,779 A	\$1262.16
P-Value	0.2833	0.2833	N/A

†Bushels per acre and lb per acre corrected to 15.5% moisture.

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

‡Net return based on \$0.19/lb popcorn, \$25/gal Versa Fe, \$2.40/lb Lockdown, and \$9.50 aerial application cost.

	Plant Tissue Samples											
	N	P	K	Mg	Ca	S	Na	Fe	Mn	B	Cu	Zn
	-----(% )-----							-----ppm-----				
Check	3.81 A	0.44 A	2.89 A	0.19 A	0.45 A	0.28 A	0.004 A	124 A	71 A	21 A	13.25 A	47 A
Versa Fe	3.75 A	0.42 A	2.98 A	0.20 A	0.44 A	0.26 A	0.005 A	116 A	67 A	21 A	12.50 A	45 A
P-Value	0.7109	0.4406	0.4586	0.7177	0.576	0.2452	0.7888	0.327	0.3985	0.8675	0.391	0.4166

**Summary:** At this site, there was no yield or foliar differences between the Versa Iron (Fe) treatment and the check.



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