



# Nebraska On-Farm Research Network

**Years:** 2013  
**Title:** Fertilizer Enhancer  
**Crop:** Corn  
**County:** Seward  
**Study ID:** 006159201301  
**Objective:** To determine & document the effect of Avail on the profitability of corn production.  
**Treatments:** 11-52-0 Fall Applied + Avail

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## Results: 2013 Corn - Fertilizer Enhancer

**A= Check Treatment:** 11-52-0 Fall Applied (125 #'s P 240 #'s Product)

**B= Avail** 11-52-0 + Avail Fall Applied (125 #'s P 240 #'s Product)

Channel 209-76R, 5/10/2013 32,000 Fillmore soil 0% slope

### SOIL ANALYSIS RESULTS

Sample Area	pH	Buffer pH	%OM	NO3-N ppm 0-3'	Legume lbs/ac	Lbs N Avail.	P 1 ppm	level	K ppm	level	Z n ppm	level	S ppm	level
1	5.7	6.6	3.1	4	50	91	16	H	287	VH	1.1	H	12	M
2	5.9	6.7	3.2	5.6	50	108	12	M	280	VH	0.7	M	12	M
3	5.7	6.7	2.9	4.7	50	98	9	L	243	H	0.8	M	16	H

Fertility Levels: VL = very low; L = low; M = medium; H = high; VH = very high

### FERTILIZER RECOMMENDATION (lbs/ac)

Sample Area	Yield Goal	Nitrogen Comm	Phos. Corn	Phos. Bean	Potas. K2O	Zinc	Sulfur	Lime	Seed N
1	22.5	197	10-25*	0	0	0	0	2000	117
2	22.5	180	55	30	0	1-3	0	3000	100
3	22.5	190	75	50	40	1-3	0	3000	110

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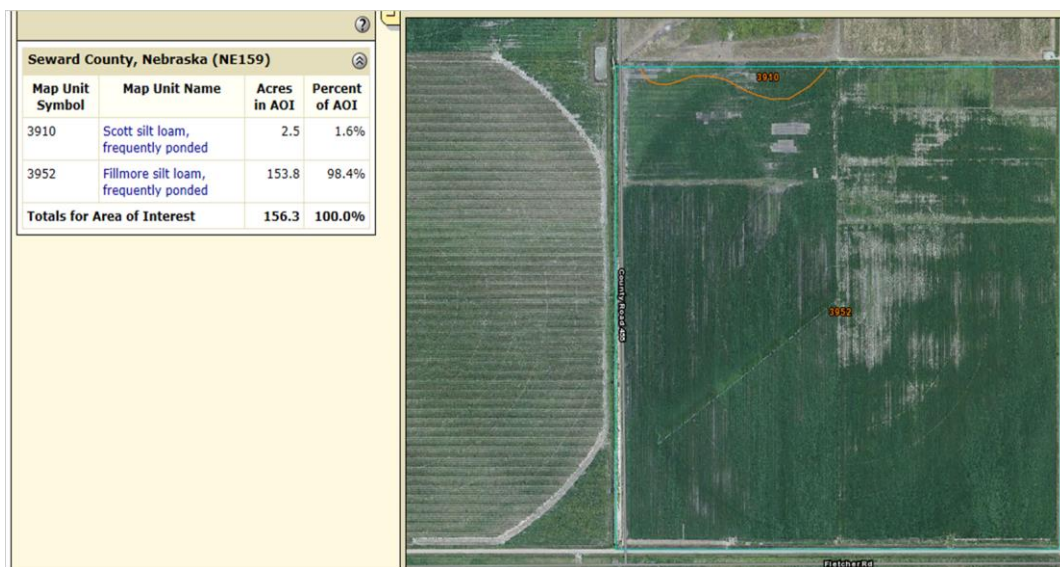


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## Results: 2013

## Corn - Fertilizer Enhancer

	Yield	Moisture	Cost/A
Check	232.8 A	16.4 A	-
Avail	232.5 A	16.3 A	\$17.64
Prob>/T/	ns	ns	

Prior Crop Soybeans , Planted 5/10/13, Channel 209-76R @ 32k

11-52-0 Fall Applied (125 #'s P<sub>2</sub>O<sub>5</sub> 240 #'s of Product) Broadcast in 40' strips 11/16/2012

11-52-0 + Avail Fall Applied (125 #'s P<sub>2</sub>O<sub>5</sub> 240 #'s of Product) + 7.68 oz Avail\* Broadcast in 40' strips 11/16/2012

\* 1/2 gallon/ton of Product or 7.68 oz/acre \$294/gallon or \$17.64/acre

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## Results: 2013

## Corn - Fertilizer Enhancer

**Summary: (2013)** Summary (2013) There was no significant difference in yield or harvest moisture between the plots that received 125 #'s of P fall applied vs the plots that received 125#'s P fall applied plus 7.68 oz. of Avail. Initial soil test samples were in the low or medium range for phosphorus.

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