

N EXTENSION

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 t		K		Z n		S	
							ppm	level	ppm	level	ppm	level	ppm	level
1	5.7	6.8	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	225	197	10-25*	0	0	0	0	2000	117
2	225	180	55	30	0	1-3	0	3000	100
3	225	190	75	50	40	1-3	0	3000	110

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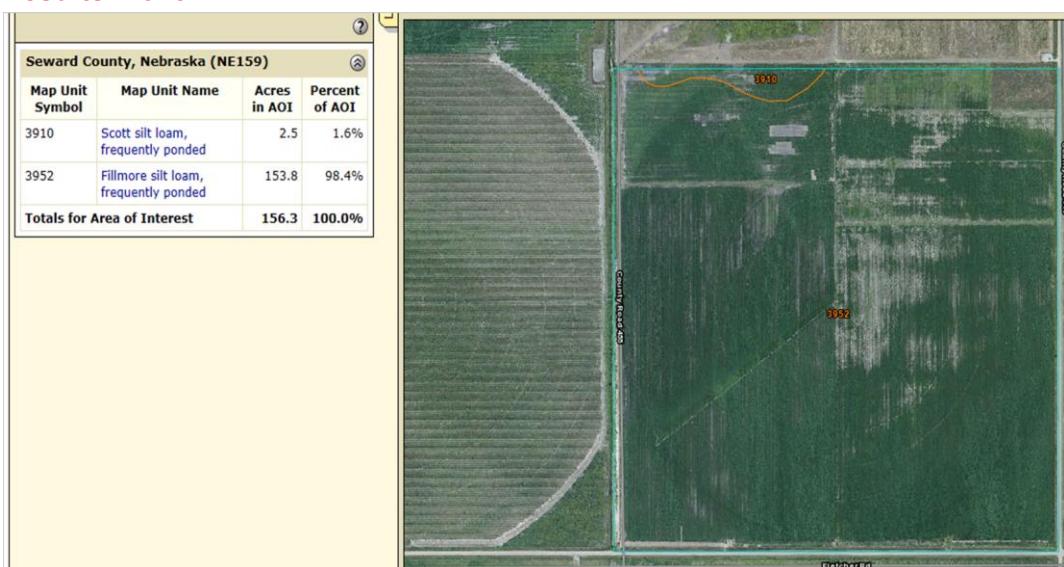
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	Yield	Moisture	Cost/A
Check	232.8 A	16.4 A	-
Avail	232.5 A	16.3 A	\$17.64
Prob>/T/	ns	ns	

Prior Crop Soybeans, Planted 5/10/13, Channel 209-76R @ 32k
11-52-0 Fall Applied (125 #'s P₂O₅ 240 #'s of Product) Broadcast in 40' strips 11/16/2012
11-52-0 + Avail Fall Applied (125 #'s P₂O₅ 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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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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