Nebraska On-Farm Research Network

Years:	2013
Title:	Soybean Population Study
Crop:	Soybeans
County:	York
Study ID:	026185201303
Objective:	To determine & document the effect of population on the profitability of soybean production.
Treatments:	140k vs 175k

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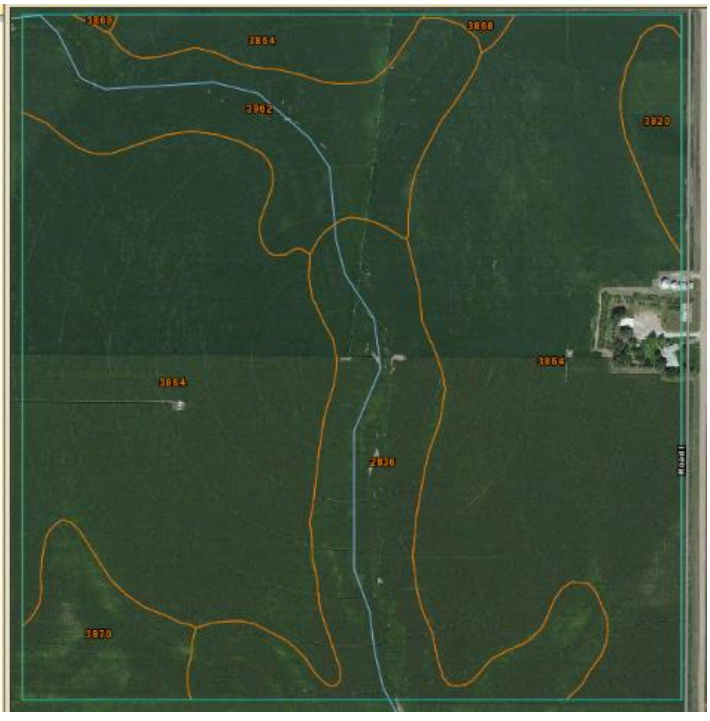
York County, Nebraska (NE185)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2836	Uly-Hobbs silt loams, 11 to 30 percent slopes	21.8	15.0%
3820	Butler silt loam, 0 to 1 percent slopes	3.0	2.1%
3864	Hastings silt loam, 0 to 1 percent slopes	96.1	66.2%
3868	Hastings silt loam, 3 to 7 percent slopes	0.6	0.4%
3870	Hastings silty clay loam, 3 to 7 percent slopes, eroded	6.5	4.4%
3962	Hastings silty clay loam, 7 to 11 percent slopes, eroded	17.2	11.8%
Totals for Area of Interest		145.1	100.0%



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Results: 2013 Soybean - Population

	Yield	Moisture	TW	Hpop	Cost/A
140k	79.0 A	10.8 B	55.6 A	121.1k B	$46.60
175k	77.8 B	11.0 A	56.1 A	141.0k A	$56.26
Prob>/T/	0.0141**	0.0741*	ns	0.000***	

30" spacing 93Y15, Planting Soybeans Ridgetill 5/14/13 , Harvest 10/2/13

Hastings Silty loam and Hastings Silty Clay Loam 0-1% to 6-11%

Insecticide: R3 Leverage 360 2.8 oz 8/5/2013

Fungicide: R3 Stratego 4.0 oz 8/5/2013

Herbicide: Pre Authority Assist 4SC Post Roundup 32 oz Volunteer 5 oz

OFRN Operator: Ron and Ray Makovicka

Summary: Soybean - Population

(2013) There was a significant yield increase (1.2 bu./acre) for the 140,000 soybean population compared to the 175,000 soybean population. No difference in test weight, however the 140,000 population was slightly drier and statistically significant.

These results are similar to many past soybean population studies that confirm planting at 120,000 seeds/acre can achieve maximum economic yields and returns.

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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.