



Nebraska On-Farm Research Network

Years:	2012
Title:	Population
Crop:	Corn
Study ID:	117155201201
County:	Saunders
Objective:	Study effect of various seed populations on corn production and profitability.
Treatments:	Population 24k, 28k, 32k, & 36k

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Information: 2012

Corn

Population 24k, 28k, 32k & 36k

Hybrid Hoegmeyer 8691- Rainfed

Planted: 4/27/12

Harvested: 9/14/12

Pohocco Silty Clay Loam

Note: Harvest populations did not match up well as intended with targeted treatment populations. This is partially explained by the interaction of the seed size/uniformity, planter unit accuracy and planting speed.

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Field Summary Report

Grower : Carl Sousek
Farm : Sousek Farms



Field:	N160NW
Year:	2012
Operation:	Grain Harvest
Product:	Com - CORN
Operational Instance:	Harvest - 1

Dataset	Area ac	Average Moisture %	Estimated Weight (Wet) lb	Estimated Volume (Dry) bu	Average Yield (Dry) bu/ac	Actual Weight (Wet) lb	Error %	Date Logged
L1:A	9.985	14.60	45,705	810.47	81.17	N/A	N/A	9/6/2012
L2:B	4.943	14.30	28,356	504.60	102.09	N/A	N/A	9/6/2012
L3:C	3.879	12.50	19,599	349.99	90.22	N/A	N/A	9/6/2012
L4:RONS	16.53	13.60	84,075	1,501.3	90.80	N/A	N/A	9/14/2012
L5:1	0.263	13.10	1,598.1	28.54	108.41	N/A	N/A	9/14/2012
L6:2	0.262	12.80	1,390.7	24.83	94.70	N/A	N/A	9/14/2012
L7:3	0.265	12.50	1,245.6	22.24	83.84	N/A	N/A	9/14/2012
L8:4	0.268	12.60	994.55	17.76	66.38	N/A	N/A	9/9/2012
L9:5	0.269	12.10	1,048.6	18.72	69.72	N/A	N/A	9/9/2012
L10:6	0.271	13.00	762.26	13.61	50.29	N/A	N/A	9/9/2012
L11:7	0.271	12.90	712.85	12.73	46.94	N/A	N/A	9/9/2012
L12:8	0.271	12.70	1,015.7	18.14	66.81	N/A	N/A	9/14/2012
L13:9	0.271	12.40	949.46	16.95	62.49	N/A	N/A	9/14/2012
L14:10	0.271	12.70	914.28	16.33	60.31	N/A	N/A	9/14/2012
L15:11	0.267	13.10	518.65	9.262	34.73	N/A	N/A	9/9/2012
L16:12	0.267	13.30	650.11	11.61	43.55	N/A	N/A	9/9/2012
L17:13	0.267	13.20	792.14	14.15	53.04	N/A	N/A	9/9/2012
L18:14	0.267	12.70	1,014.8	18.12	67.77	N/A	N/A	9/14/2012
L19:15	0.263	12.50	956.16	17.07	64.86	N/A	N/A	9/14/2012
L20:16	0.269	13.70	872.03	15.57	57.80	N/A	N/A	9/14/2012
Totals	39.62	13.75	193,172	3,442.0	86.87			9/6/2012 - 9/14/2012
			Average		Average			

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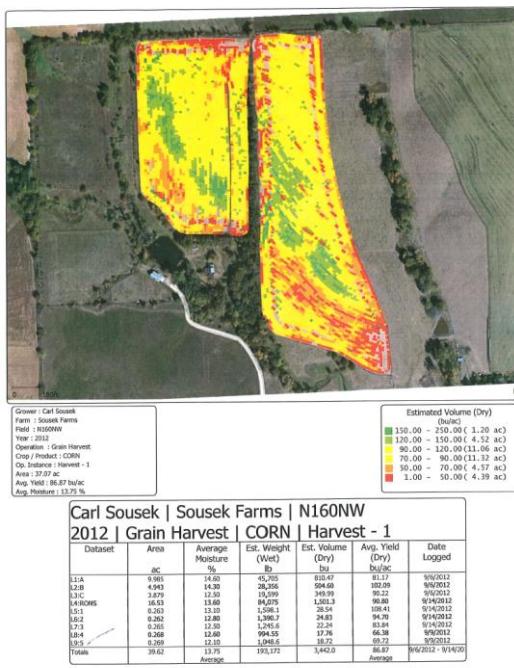


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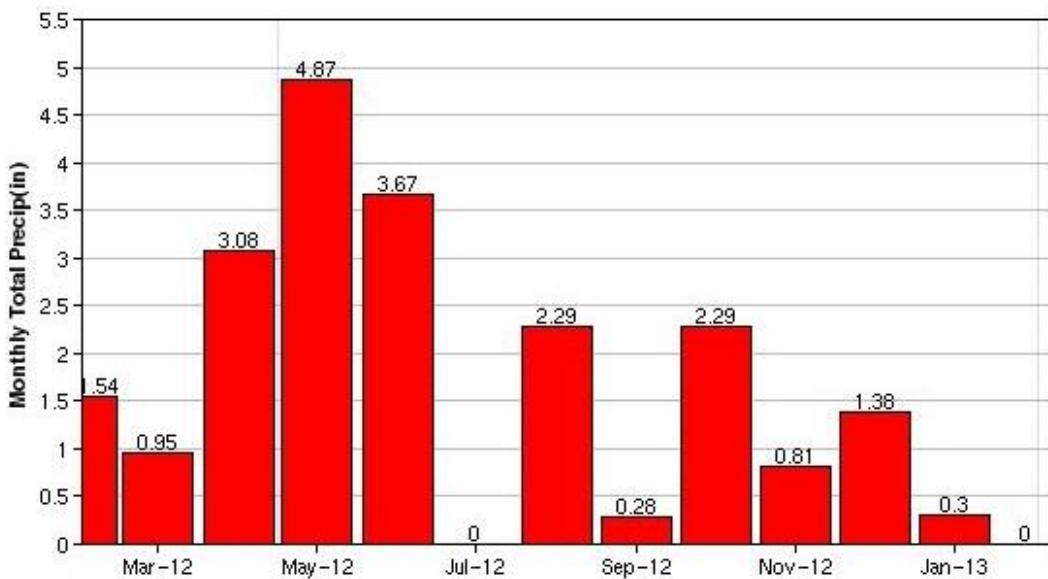
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PRAGUE, NE



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Results: 2012

	Corn Population			
Treatment	24k	28k	32k	36k
Yield, bu/ac @15.5%	76.3	73.4	57.2	52.6
Cost/Acre	---	\$10.25	\$20.50	\$30.75
Prob>/T/ 0.0014***	A	A	B	B
Moisture, %	12.8	12.5	13	13.1
Prob>/T/ 0.1149 ns	A	A	A	A
Harvest Population	26.8k	28.5k	31.2k	36.6k
Prob>/T/ 0.0002***	C	BC	B	A

Summary: (2012) This study with Hybrid Hoegemeyer 8691 was planted no-till into soybean residue with rainfall received of 10.5" (according to NE Rain) in 2012. Seeding rates of 32,000 and 36,000 seeds/acre were statistically different than seeding rates of 24,000 and 28,000 seeds/acre. A seeding rate of 24,000 seeds/acre maximized yield and economic returns (assuming \$7/bu corn price).

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