



# 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: Corn - 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								

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Carl Sousek   Sousek Farms   N160NW						
2012   Grain Harvest			CORN   Harvest - 1			
Dataset	Area ac	Average Moisture %	Est. Weight (Wet) lb	Est. Volume (Dry) bu	Avg. Yield (Dry) bu/ac	Date Logged
1-18	9.961	14.60	45,755	832.47	83.57	9/9/2012
2-18	4.943	14.30	28,356	504.68	102.09	9/9/2012
3-18	3.879	12.30	19,599	349.89	89.22	9/9/2012
4-180MS	16.53	13.60	84,075	1,363.3	80.49	9/16/2012
5-1	6.263	13.30	1,086.1	26.54	40.45	9/16/2012
6-2	0.262	12.80	1,385.7	24.83	94.39	9/16/2012
7-3	0.302	12.50	1,291.6	22.24	63.84	9/16/2012
8-4	0.268	12.60	994.55	17.76	66.38	9/9/2012
9-5	0.269	12.10	1,046.6	36.72	86.72	9/9/2012
Totals	39.62	13.75 Average	193,172	3,442.0	86.87 Average	9/6/2012 - 9/16/2012

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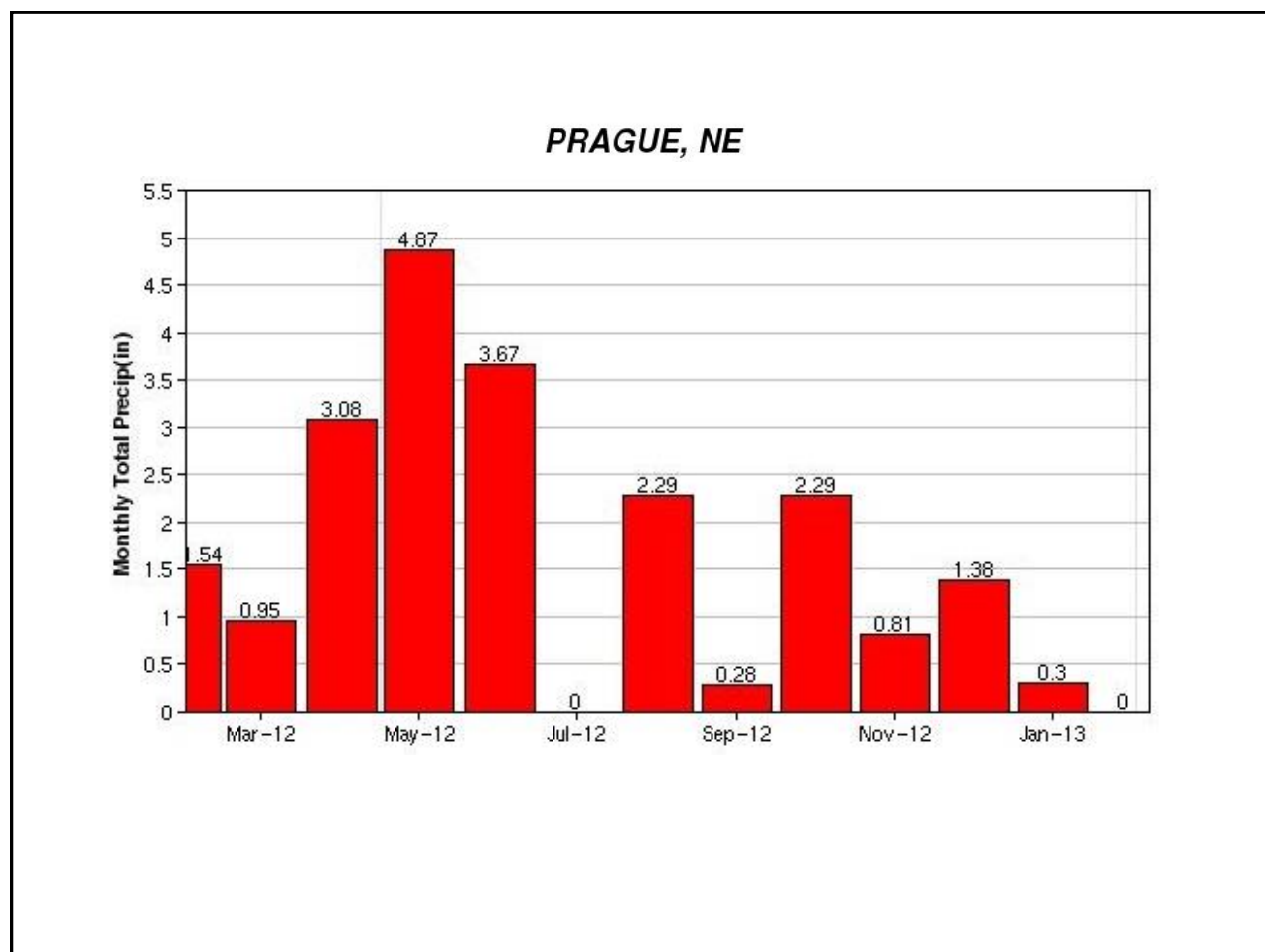
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## Results: 2012

		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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