



Nebraska On-Farm Research Network

Calcium Sulfate on Rainfed Corn

Study ID: 016155201401

County: Saunders

Soil Type: Yutan silty clay loam, eroded

Planting Date: 5/3/2014

Harvest Date: 10/30/2014

Population: 25,671 seeds/acre

Row Spacing: 30"

Hybrid: LG 2636

Reps: 4

Previous Crop: Soybeans

Tillage: No-Till

Herbicides: Pre: 2.5 pt/ac TripleFLEX on

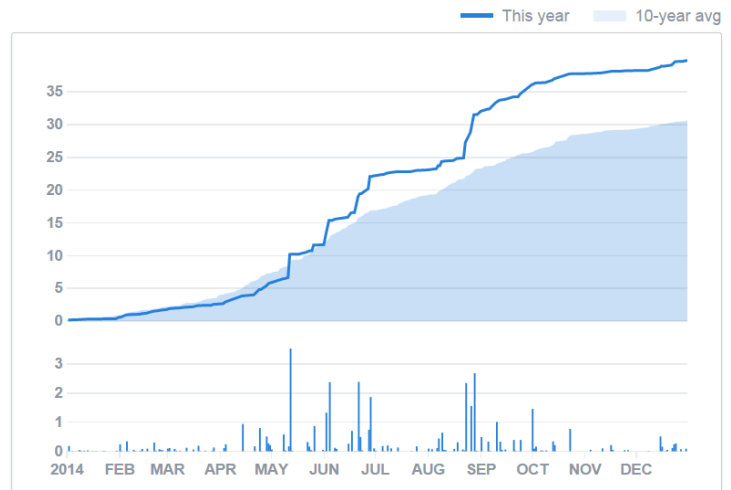
5/6/14 Post: 24 oz/ac Glyphosate

Insecticides/Fungicides: Poncho/VOTiVO seed treatment

Fertilizer: 145 lbs actual N/acre as Anhydrous ammonia, fall 2013

Irrigation: Not Irrigated

Rainfall:



Introduction: As a by-product of certain ethanol production facilities, growers may have access to calcium sulfate which is sold as a soil amendment. The purpose of this study was to determine if the application of calcium sulfate improved rainfed corn yields. The product Pro-Cal 40 was applied at a rate of 1 ton/ac on 12/15/13.

Results:

	Yield† (bu/acre)	Moisture (%)	Net Return ‡
Check	182*	15.2	\$637.00
Calcium Sulfate	182	15.3	\$607.00
P-Value	0.9684	0.1723	--

†Bushels per acre corrected to 15.5% moisture.

*Values with the same letter are not significantly different at a 90% confidence level.

‡Net return based on \$3.50/bu corn and \$30/ton Pro-Cal 40.

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Soil samples were taken from each area after the study was harvested. Only one rep was soil sampled.

	pH	Buffer pH	OM	Nitrate- N	Mehlich- P-III	K	S	Zn	Fe	Mn	Cu	Ca	Mg	Na
			-%-	-----ppm-----										
Check	5.8	6.6	3.4	11	36	256	11	1.76	53.3	15.1	1.14	2761	589	15
Calcium Sulfate	6.2	6.8	3.4	5.8	21	262	16	1.42	46.7	12.9	1.09	2756	574	13

Summary: The addition of calcium sulfate did not have any impact on corn yields. Net returns were lower for the calcium sulfate treatment due to the additional cost of calcium sulfate and no increase in yield.

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