Nebraska On-Farm Research Network

Years:	2013
Title:	Evaluate planting wheel compaction - Rainfed Corn
Crop:	Corn
County:	Saunders
Study ID:	039155201301
Objective:	Determine if the pinch rows from planter and tractor impact corn yield
Treatments:	Outside (Non-compacted) Inside (Compacted)

Sponsored by: University of Nebraska Lincoln **In partnership with:** Nebraska Corn Board, Nebraska Corn Growers Association

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.

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Information: 2013 Compaction

Center wheels of planter - Center 12 rows of a 24 row planter that has the tractor tires and the main planter frame weight in them.
Outside of planter - Outside 12 rows that only have the planter wing wheels in them.
30" row spacing, Central fill planter, 1200 gallon saddle tanks on tractor.

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Results: 2013 Compaction

Rainfed

	Yield	Moisture
Outside	218.0 A	16.29 A
Center	216.7 A	15.95 B
Prob>/T/	ns	0.0385**

NoTill - Planted 5/12/13, DKC 63-33 RIB , Planting rate 30k Dryland, Harvest 10/27/13

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Summary: Compaction

(2013) Summary Statement – 2013 There was no significant yield difference in grain yield from the compacted and non-compacted treatment rows in rainfed corn. The grain however for the compacted rows in the rainfed corn was significantly drier.

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