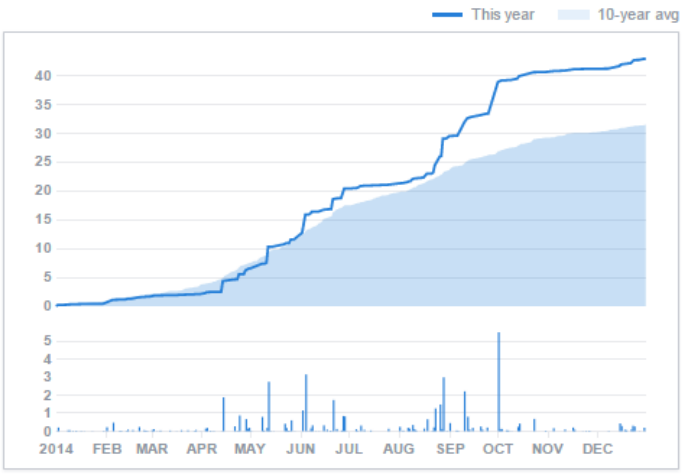
Nebraska On-Farm Research Network

Evaluating the Yield Response of Insect Control Traits in Rainfed Corn

Study ID: 030109201402
County: Lancaster
Soil Type: Kennebec/Judson/Sharpsburg – Silty Clay Loam
Planting Date: 4/26/2014
Harvest Date: 11/5/2014
Population: 30,000
Row Spacing: 30”
Hybrid: Channel 217-07/08
Reps: 8
Previous Crop: Soybeans
Tillage: No-Till
Herbicides: Pre: 2.1 qt. Trizmet II Early March **Post:** 1.87oz Callisto + 24 oz Roundup PowerMAX – Early June.
Insecticides/Fungicides: Poncho 250, Acceleron
Fertilizer: 160 lbs NH3 – November 2013.

Irrigation: Not Irrigated
Rainfall:



Introduction: Corn hybrids today can be purchased with and without pest management traits. The purpose of this study was to evaluate the performance of two hybrids genetically the same except for the addition of the corn rootworm trait.

Results:

	Yield† (bu/acre)	Moisture (%)	Net Return ‡
Channel 217-07 VT2	225 A*	17.4 A	$785.79
Channel 217-08 VT3	222 A	17.2 B	$763.91
P-Value	*0.1127*	*0.0148*	--

†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 corn and $12.43/acre marginal additional cost for VT3 trait over VT2

Summary: There was no yield difference between the hybrid with and without pest management traits. Moisture was higher for the VT2 hybrid when compared to the VT3 hybrid.

Sponsored by: University of Nebraska Lincoln

In partnership with: Soybeans Nebraska Soybean Board; Nebraska Corn Board; Nebraska Corn Growers Association