On-Farm Comparison Results
MCKENZIE

Nebraska Soybean & Feed Grains Profitability Project

Years:	2004, 2005, 2007
Title:	Insecticide Combinations
Crop:	Corn
NSFGPP Operator:	Duane McKenzie, Dodge County
Private Industry Cooperator:	Mark McKenzie
Objective:	To determine & document the effect of different insecticide treatments on the profitability of corn production.
Treatments:	2004 - Capture ½ rate vs. Capture ½ rate + Poncho 250 vs. Poncho 250 vs. Regent ½ rate vs Regent ½ rate + Poncho 250. 2005 - Poncho 250 vs. Capture ½ rate + Poncho 250 vs. Regent ½ rate + Poncho 250 vs. Capture ½ rate. 2007 - Poncho 250 Seed Treatment vs. Poncho 250 Seed Treatment plus 1/2 Rate Capture Insecticide.

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Results: 2004

	Corn (Dk 60-17)			
Treatment	Yield, bu/ac @ 15%	Moisture %	Plants 1,000/ac	Cost $/ac
1. Capture ½ rate	205	16.7	24.5	$6.60
2. Capture ½ +Poncho 250	213	16.4	27.2	$11.60
3. Poncho 250	215	16.5	26.2	$5.00
4. Regent ½ rate	193	16.7	21.3	$7.42
5. Regent ½ + Poncho 250	215	16.5	24.5	$12.42

Statistical Analysis (Prob >F)

All Treatments	<.0001 ***	0.0341 **	0.0002 ***
1 vs 4	0.0005 ***	0.6495 ns	0.0046 ***
2 vs 5	0.5314 ns	0.2639 ns	0.0125 **
3 vs 2 & 5	0.7167 ns	0.8953 ns	0.6666 ns
2, 3 & 5 vs 1 & 4	<.0001 ***	0.0032 ***	0.0002 ***

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Results: 2005

	Corn (RX52YG (CB))			
Treatment	Yield, bu/ac @ 15%	Moisture %	Plants 1,000/ac	Cost $/ac
1. Poncho 250	213	13.5	28.6	$5.95
2. Capture ½ rate +Poncho	223	13.4	28.9	$13.17
3. Regent + ½ rate + Poncho	223	13.5	28.9	$14.89
4. Capture ½ rate	216	13.4	28.0	$7.22
Statistical Analysis (Prob >F)				
All Treatments	0.038 **	0.720 ns	0.302 ns	
1 vs 2 & 3	0.0082 ***	0.865 ns	0.604 ns	
2 vs 4	0.068 *	0.660 ns	0.110 ns	
2 vs 3	0.896 ns	0.558 ns	0.969 ns	

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Results: 2007

Corn (Dk 62-33)

Variable	Poncho 250	Poncho+Capture	Prob >/T/
Yield, bu/ac @ 15.0%	206	211	0.0118 **
Moisture, %	14.6	14.5	0.1403 ns
Plants, 1000/ac	25.8	25.7	0.8630 ns
Cost/ac	$15.00	$18.07	---

Planting Date: 5/1/07 Harvesting Date: 10/7/07

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Summary: In 2004, the use of Poncho, alone or in combination with Capture or Regent, resulted in the highest yield, driest grain at harvest, and highest plant population. The use of Capture at ½ rate alone resulted in higher grain yield and higher plant population than from Regent at ½ rate. White grub pressure was a factor in this comparison.
In 2005, the use of Poncho 250 in combination with ½ rate of Capture or ½ rate of Regent gave a higher yield than Poncho alone. The combination of Capture at ½ rate with Poncho gave a higher yield than Capture at ½ rate alone. Grain moisture at harvest and plant stands were not affected by treatments.
In 2007, the application of a ½ rate of Capture in addition to Poncho Seed treatment significantly increased corn grain yield.