

2005, 2006, 2007,
Stacked Rotation 2013 Pricing

Strip Till, 20" Corn on Corn, Averaged.

Low rate on rate, high rate on high rate, 2005, 2006, 2007.
Rotational Band Loading. Supplemental Irrigation.

Exactrix-Gram, \$1,000 paid to all Exactrix producers generating randomized and replicated plots to determine nitrogen use efficiency.

Exactrix Legacy Control, VR Site Specific.
2KC Weigh Master.
Exactrix 2KP TAPPS Formulator.

Strip Till Tool Bar on 20 inch centers
applying in the spring prior to planting.

Joel McClure, Hugoton, KS. Garrett Havel, Crop Quest, Professional Agronomist.
Center Pivot, Corn on Corn in strip tillage on 20 inch centers.
Very Large 1.86 acre plots. Improved sample size based on 1/2 mile lengths. Randomized and Replicated 3 times. Weigh Wagon checked.
Stacked Plots. All rates applied are the same rates applied the previous year on the same plot.
Using GPS coordinates low rate plots were located and low rates were again applied on the same plot with a 6 inch previous band side offset.
The Stacked Plots prove that for three years in a row.....the best net return for risk involved is 63 pounds N per acre, 22 pounds P per acre and 13 pounds S per acre.

The Marginal Return Point and the Maximum Economic Yield after three years is 63 pounds N, 22 pounds P and 12 pounds S plus Zn in a nutrient band placed on 20 inch centers directly under the plant. Bands placed at least 30 days ahead of planting using a strip till tool bar from DMI.

Pounds N/A applied N at 30 cents, P at 40 cents, S at 30 cents spring 2007 as NH3, APP, ATS		Yield, Bu./A, Gross Return. NP&S cost, Nutrient cost %, Gross Margin	
	19 bu.		
155+39		213.53 bu/A, \$1067.65	
69 P 40 S		\$164.80.....15.4%....\$902.85	
100+25		200.42 bu/A, \$1002.1	
125 N 44 P 26 S		\$105.98.....10.5%.....\$896.02	
75+19		194.49 bu/A, \$972.45	
94 N 33 P 19.5 S		\$79.62.....5.7%.....\$892.83	
50+13		198.85 bu/A, \$994.25	
63 N 22 P 13 S		\$53.30....5.3%....\$940.95	
MEY, MRP, Equilibrium.			

Maximize the Margin.....Not the Yield,
2013 corn budget at Hugoton KS
Based on 3 averages of continuous Corn.

Corn at \$5.00
Nutrients expensive.
What happens to the net margin.

In 2013 at Hugoton, KS
Maximizing Yields Will Reduce Income \$38.10 per acre.

Rotational Band Loading Implemented.
Shank application offset to avoid previous band disturbance.
Range of plots. 19 bu./A
N at 46 cents, NP at 68 cents, NS at 56 cents.
NH3 at \$770/Ton, APP at \$600/Ton, ATS at \$425/Ton.

Soil pH 7.5 to 8.0, OM .5% to 1.1 %. Sandy Soils in production for 100 years. Continuous corn production area with corn moving directly to the feed lots.
2005, 2006, 2007 test plot data available at Exactrix.com.

Test, McClure, 3 year Average, Oct 2007
Test, McClure, 3 year average, corn at \$5.00 Spring 2013, April 19, 13.

Bushels per Acre

150

200

250

300