



## Strip Crop Study – Continued

**Income Scenarios** (The scenarios listed below represent the five different planting dates that were planted in our trial.)

### Traditional Block

April 21st Corn Block (Center 12 rows)	\$861.52/A.
May 1st Soybean Block (Center 22 rows)	\$637.73/A.
Average	\$749.62/A.

### Mid April Corn/Early May Soybeans

April 21st Corn Strip (30 ft. Strip)	\$850.23/A.
May 1st Soybean Strip (30 ft. Strip)	\$565.13/A.
Average	\$707.68/A.

### Early May Corn/Early May Soybeans

May 1st Corn Strip (30 ft. Strip)	\$773.54/A.
May 1st Soybean Strip (30 ft. Strip)	\$542.03/A.
Average	\$657.78/A.

### Early May Corn/Mid May Soybeans

May 8th Corn Strip (30 ft. Strip)	\$781.92/A.
May 14th Soybean Strip (30 ft. Strip)	\$536.25/A.
Average	\$659.08/A.

### Mid May Corn/Late May Soybeans

May 15th Corn Strip (30 ft. Strip)	\$732.31/A.
May 21st Soybean Strip (30 ft. Strip)	\$503.25/A.
Average	\$617.78/A.

Average Gross \$ per acre based on average market price of \$3.35 for Corn minus drying cost of \$0.03 per point per bushel and \$8.25 for Soybeans.

**Summary:** In 2007, corn planted in strips out-yielded the block planting scenario on the same date, however the block had the winning corn Gross \$ per acre when moisture was factored in. 30 ft. strips planted on the same day as the block out yielded the traditional block by 8.8 Bu./A. in 2006. As for soybeans, the same yield drag in strips compared to the traditional block was noted as in previous years. Although 15 ft. strips proved to make the strip crop planting a profitable cultural practice in previous years, 30 ft. strips were used this year to represent planter widths that might actually be used in larger scale field production. Widening the strips in both 2006 and 2007 minimized the benefit of the additional sunlight on the corn strips, thus preventing strip cropping at the Southern PFR farm from being profitable over the past two years using 30 ft. strips.



## Nitrogen Form Study on Corn – 2007

**Planted:** April 24, 2007  
**Harvested:** September 15, 2007  
**Rows:** Three 30" rows  
**Population:** 34,000 seeds/A.  
**Soil Type:** Ragsdale Silt Loam

**Previous Crop:** Corn  
**Tillage:** Disc Ripper, Field Cultivator  
**Herbicide:** Degree Xtra / Atrazine  
 Roundup Original Max  
**Insecticide:** Artic

RAINFALL	
April	3.08 in.
May	3.17 in.
June	2.97 in.
July	1.24 in.
August	0.72 in.
Total	11.18 in.

**Purpose:** With significant increases in nitrogen prices over the past couple of years, farmers are looking for the most economical rates and forms. This study compares four forms of nitrogen (Urea, ESN, 28%, NH<sub>3</sub>) on four different genetic families. ESN (Environmentally Smart Nitrogen) is encapsulated Urea that can be used to minimize volatilization of urea. 200 lbs. of urea and ESN and NH<sub>3</sub> were incorporated prior to planting. 28% liquid nitrogen was side-dressed at V3.

Brand	Urea		ESN		28%		NH <sub>3</sub>		Average Bushels* Per Acre
	Bu./A.*	\$ Return Per Acre	Bu./A.*	\$ Return Per Acre	Bu./A.*	\$ Return Per Acre	Bu./A.*	\$ Return Per Acre	
BECK 6722CBWRR	266.3	\$789.31	254.4	\$719.75	244.7	\$704.33	267.8	\$811.46	258.3
BECK 5444CBWRR	221.0	\$642.35	221.7	\$616.70	236.9	\$693.62	244.0	\$747.40	230.9
BECK 5616CBWRR	223.6	\$651.06	227.2	\$635.12	222.6	\$645.71	211.7	\$639.20	221.3
BECK 7916CBRR	218.2	\$625.44	216.2	\$596.00	221.0	\$629.74	212.6	\$632.01	217.0
AVERAGE	232.3	\$677.04	229.9	\$641.89	231.3	\$668.35	234.0	\$707.51	231.9

\*Bushels per acre corrected to 15% moisture. Plot weighed by BECK'S Hybrids – Scott Ebelhar. Nitrogen prices based on \$450/ton Urea, \$575/ton ESN, \$575/ton NH<sub>3</sub> and \$280/ton 28% liquid nitrogen. Corn price based on \$3.35/Bu. Drying costs at \$.03/pt. of moisture were also removed.

**Summary:** There was less than a 5 Bu./A. difference between the average yields of each of the nitrogen forms tested. NH<sub>3</sub> provided the highest return per acre due to this form being the most inexpensive form per lbs. of actual nitrogen applied and a slightly higher average yield. Urea showed a 2.3 Bu./A. advantage over ESN at the Southern PFR farm in 2007. Data from this same test conducted at Atlanta in 2006 showed a 3.5 Bu./A. advantage for ESN over urea.