



Wheat / Double Crop Soybean Systems Study – 2009

Wheat

Planted: Various
Harvested: Various
Rows: Sixty-six 7.5" rows
Seeding Rate: 1.5 million seeds/A.

Previous Crop: Corn
Tillage: Disc (twice)
Herbicide: 0.9 oz Harmony (Spring)
Insecticide: Cruiser®

RAINFALL	
April	7.0 in.
May	5.9 in.
June	4.1 in.
July	7.2 in.
August	1.4 in.
Total	25.6 in.

Soybeans

Planted: Various
Harvested: Various
Rows: Eleven 15" rows
Seeding Rate: 220,000 seeds/A.

Previous Crop: Wheat
Tillage: No-Till
Herbicide: 32 oz. Durango (3 applications)

Purpose: This study was written with the intentions of answering the question of which combination of wheat and soybean maturities would return the most income per acre in a double crop system. The trial was set up using three different wheat maturities, all of which were planted on three different planting dates in the fall. Wheat entries were harvested as they reached full maturity and were then followed with three different maturities of soybeans for each wheat entry.

WHEAT			SOYBEANS			Wheat and Soybeans
Brand	Fall 2008 Planting Date	Bushels [†] Per Acre	Brand	Summer 2009 Planting Date	Bushels [†] Per Acre	Gross Income Per Acre [^]
BECK 113	October 6	79.0	BECK 400NR™*	June 24	57.6	\$926.12
			BECK 445NR		67.5	\$1,020.67
			BECK 474NR		56.0	\$910.84
BECK 122	October 6	73.9	BECK 400NR™*	June 24	59.5	\$919.99
			BECK 445NR		69.2	\$1,012.62
			BECK 474NR		59.7	\$921.90
BECK 164	October 6	69.4	BECK 400NR™*	June 24	59.8	\$901.43
			BECK 445NR		70.5	\$1,003.62
			BECK 474NR		57.4	\$878.51
BECK 113	October 15	75.8	BECK 400NR™*	June 29	55.9	\$894.65
			BECK 445NR		68.7	\$1,016.89
			BECK 474NR		57.4	\$908.98
BECK 122	October 15	67.5	BECK 400NR™*	June 29	60.4	\$898.12
			BECK 445NR		67.7	\$967.84
			BECK 474NR		59.1	\$885.71
BECK 164	October 15	70.2	BECK 400NR™*	June 29	50.5	\$816.43
			BECK 445NR		73.6	\$1,037.03
			BECK 474NR		58.4	\$891.87
BECK 113	October 24	69.7	BECK 400NR™*	July 7	54.9	\$856.07
			BECK 445NR		60.6	\$910.50
			BECK 474NR		53.8	\$845.56
BECK 122	October 24	56.3	BECK 400NR™*	July 7	57.2	\$814.25
			BECK 445NR		57.0	\$812.34
			BECK 474NR		55.3	\$796.10
BECK 164	October 24	59.8	BECK 400NR™*	July 7	53.6	\$796.53
			BECK 445NR		54.7	\$807.03
			BECK 474NR		51.1	\$772.65

[†]Bushels per acre corrected to 13% moisture. **Bold** number indicates highest gross income per acre.

[^]Wheat price based on \$4.76/Bu. average price. Soybean price based on \$9.55/Bu. average price.

2009 Summary

WHEAT		
Averages (All Planting Dates)		
Variety	Bushels [†] Per Acre	Gross Income Per Acre [^]
BECK 113	74.8	\$356.21
BECK 122	65.9	\$313.68
BECK 164	66.5	\$316.38

SOYBEANS		
Averages (All Planting Dates)		
Brand	Bushels [†] Per Acre	Gross Income Per Acre [^]
BECK 400NR™*	56.6	\$540.53
BECK 445NR	65.5	\$625.53
BECK 474NR	56.5	\$539.26

Averages (All Varieties)		
Date	Bushels [†] Per Acre	Gross Income Per Acre [^]
1 st Week Oct	74.1	\$352.72
2 nd Week Oct	71.2	\$338.75
3 rd Week Oct	61.9	\$294.80

Averages (All Varieties)		
Date	Bushels [†] Per Acre	Gross Income Per Acre [^]
June 24 th	61.9	\$591.25
June 29 th	61.3	\$585.42
July 7 th	55.4	\$528.65

4 Year Summary

WHEAT		
Averages (All Planting Dates)		
Maturity	Bushels [†] Per Acre	Gross Income Per Acre [^]
Early	70.1	\$333.68
Early Mid	73.5	\$350.02
Medium	72.7	\$345.85

SOYBEANS		
Averages (All Planting Dates)		
Maturity	Bushels [†] Per Acre	Gross Income Per Acre [^]
Late III - Early IV	48.8	\$465.87
Early – Mid IV	53.6	\$512.36
Mid – Late IV	55.5	\$529.64

Averages (All Varieties)		
Date	Bushels [†] Per Acre	Gross Income Per Acre [^]
1st Week Oct	73.8	\$351.29
2nd Week Oct	70.9	\$337.44
3rd Week Oct	71.6	\$340.90

Averages (All Varieties)		
Date	Bushels [†] Per Acre	Gross Income Per Acre [^]
1st Planting	52.6	\$502.30
2nd Planting	53.3	\$509.14
3rd Planting	52.3	\$499.21

[†]Bushels per acre corrected to 13.0% moisture.

*XL Brand is distributed by Beck's Superior Hybrids, Inc.

[^]Wheat price based on \$4.76 per bushel average price. Soybean price based on \$9.55 per bushel average price.

Summary: Wheat

The 2009 data suggests that the first week of October was the optimum planting date for wheat. Average yields for the 2nd and 3rd weeks of October are historically lower primarily due to rainfall events that led to thin stands. When rain events did not hurt stands, there was little variation in yield across all three weeks. BECK 113 had the highest average yield across all planting dates in 2009. The four year data suggests that early-mid maturity varieties have historically out yielded early and mid-maturity varieties.

Double Crop Soybeans

Similar to the four year historical data, a mid-Group IV variety yielded significantly higher than the early Group IV soybean. BECK 445NR out-yielded all other varieties in this study by nearly 9 Bu./A.! Soybeans planted on June 24th and 29th into extremely heavy conditions averaged 6.2 Bu./A. more than those planted into more ideal conditions on July 7th. Heavy conditions and late planting that delayed early growth resulted in the premature death for both BECK 445NR and BECK 474NR planted on July 7th due to frost damage. BECK 474NR also showed signs of frost damage in the June 29th planting.