



Wheat / Double Crop Soybean Systems Study – 2008

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

Previous Crop: Corn
 Tillage: Disc (twice)
 Herbicide: 0.6 oz Harmony (Spring)
 Insecticide: Cruiser

RAINFALL	
April	4.64 in.
May	6.36 in.
June	3.12 in.
July	8.90 in.
August	<u>0.80 in.</u>
Total	23.82 in.

Soybeans

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

Previous Crop: Wheat
 Tillage: No-Till
 Herbicide: 24 oz. Durango
 (2 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 2007 Planting Date	Bushels* Per Acre	Brand	Summer 2008 Planting Date	Bushels* Per Acre	Gross Income Per Acre^
BECK 112	October 2	71.8	BECK 399NRR	June 23	57.3	\$1,137.77
			BECK 422NRR		59.1	\$1,157.77
			BECK 445NRR		66.4	\$1,238.87
BECK 117	October 2	85.9	BECK 399NRR	June 23	58.7	\$1,251.74
			BECK 422NRR		59.9	\$1,265.07
			BECK 445NRR		65.0	\$1,321.73
BECK 164	October 2	85.1	BECK 399NRR	June 23	58.1	\$1,239.49
			BECK 422NRR		58.4	\$1,242.82
			BECK 445NRR		65.4	\$1,320.59
BECK 112	October 12	65.0	BECK 399NRR	June 24	63.0	\$1,153.63
			BECK 422NRR		57.9	\$1,096.97
			BECK 445NRR		69.0	\$1,220.29
BECK 117	October 12	78.8	BECK 399NRR	June 24	63.5	\$1,255.51
			BECK 422NRR		59.0	\$1,205.51
			BECK 445NRR		67.3	\$1,297.73
BECK 164	October 12	81.3	BECK 399NRR	June 24	60.0	\$1,234.07
			BECK 422NRR		61.2	\$1,247.41
			BECK 445NRR		68.2	\$1,325.18
BECK 112	October 21	62.5	BECK 399NRR	June 30	N/A'	N/A'
			BECK 422NRR		61.8	\$1,122.85
			BECK 445NRR		69.9	\$1,212.84
BECK 117	October 21	71.6	BECK 399NRR	June 30	60.9	\$1,176.37
			BECK 422NRR		60.3	\$1,169.70
			BECK 445NRR		67.0	\$1,244.14
BECK 164	October 21	73.2	BECK 399NRR	June 30	62.7	\$1,207.53
			BECK 422NRR		62.7	\$1,207.53
			BECK 445NRR		73.5	\$1,327.52

*Bushels per acre corrected to 13% moisture.

^Wheat price based on \$6.98/Bu. average price. Soybean price based on \$11.11/Bu. average price.

'Combine mechanical malfunction

Bold number indicates highest gross income per acre.

2008 Summary

WHEAT		
Averages (All Planting Dates)		
Variety	Bushels* Per Acre*	Gross Income Per Acre^
BECK 112	66.4	\$463.47
BECK 117	78.8	\$550.02
BECK 164	79.9	\$557.70

SOYBEANS		
Averages (All Planting Dates)		
Brand	Bushels* Per Acre	Gross Income Per Acre^
BECK 399NRR	60.5	\$672.16
BECK 422NRR	60.0	\$666.60
BECK 445NRR	68.0	\$755.48

Averages (All Varieties)		
Date	Bushels* Per Acre	Gross Income Per Acre^
1st Week Oct	80.9	\$564.68
2nd Week Oct	75.0	\$523.50
3rd Week Oct	69.1	\$482.32

Averages (All Varieties)		
Date	Bushels* Per Acre	Gross Income Per Acre^
23-Jun	60.9	\$676.60
24-Jun	63.2	\$702.15
30-Jun	64.9	\$721.04

3 Year Summary

WHEAT		
Averages (All Planting Dates)		
Maturity	Bushels* Per Acre*	Gross Income Per Acre^
Early	68.5	\$478.21
Early Mid	75.9	\$530.09
Medium	74.7	\$521.64

SOYBEANS		
Averages (All Planting Dates)		
Brand	Bushels* Per Acre	Gross Income Per Acre^
Late III	46.2	\$512.93
Early IV	49.7	\$552.04
Mid IV	55.1	\$612.55

Averages (All Varieties)		
Date	Bushels* Per Acre	Gross Income Per Acre^
1st Week Oct	73.7	\$818.68
2nd Week Oct	70.8	\$786.46
3rd Week Oct	74.8	\$831.52

Averages (All Varieties)		
Date	Bushels* Per Acre	Gross Income Per Acre^
1st Planting	49.5	\$549.78
2nd Planting	50.6	\$562.61
3rd Planting	51.3	\$569.53

*Bushels per acre corrected to 13.0% moisture.

^Wheat price based on \$6.98 per bushel average price. Soybean price based on \$11.11 per bushel average price.

Summary: Wheat

The 2008 data suggests that the first week of October was the optimum planting date for wheat. The three year data shows that both the 1st and 3rd weeks of October have only a 1.1 Bu./A. yield difference. Average yields for the 2nd week of October are lower primarily due to a rainfall event in the fall of 2006 that lead to thin stands and significantly higher freeze damage the following spring. BECK 164 had the highest average yield across all planting dates in 2008 although the three year data suggests that an early-mid maturity variety holds a 1.2 Bu./A. advantage.

Double Crop Soybeans

Similar to the three year historical data, a mid-group IV variety yielded significantly higher than late Group III and early Group IV soybeans. BECK 445NRR out-yielded all other varieties in this study by nearly 8 Bu./A.! Soybeans planted on June 24th and 30th averaged nearly 3.2 Bu./A. more than those planted on June 23rd. Straw was significantly tougher on the June 23rd planting date making it more difficult to penetrate the soil. Overall, historical data showed less than a 2.0 Bu./A. difference in double crop soybean planting date.