

Early vs. Late Soybean Planting Date

Jim and Mike Stewart

Private Industry Cooperator: Charlie Hartwell

OBJECTIVE: To determine and document the profitability of an early versus late soybean planting date.

EARLY PLANTING DATE

Treatment:

Plant: 1992—May 10
SO1 301, 60 pounds/acre

1993—Weather Damaged

1994—May 12
Jacques 396 (Latergroup 3),
60 pounds/acre

Herbicide : 1993-1 gal. Freedom, .66
pounds Sencor, 1 qt. Roundup
and 4 oz. Pursuit

1994-1 gal. Freedom, 6.2 oz.
Canopy, 1.5 pts. Roundup, 4
oz. Assure and 10.7 oz. Scepter

Harvest

Comparative cost (per acre)

	1992		1994
	<u>Jacaues</u>	<u>SO1</u>	<u>Jacaues</u>
Seed	\$11.80	\$15.00	\$15.00
Total	\$11.80	\$15.00	\$15.00

LATE PLANTING DATE

Treatment:

Plant: 1992—May 25
SO1 301, 60 pounds/acre

1993—Weather Damaged

1994—May 25, Jacques 396
Jacques 396 (Latergroup 3),
60 pounds/acre

Herbicide: 1993-1 gal. Freedom, .66
pounds Sencor, 1 qt. Roundup
and 4 oz. Pursuit

1994-1 gal. Freedom, 6.2 oz.
Canopy, 1.5 pts. Roundup, 4
oz. Assure and 10.7 oz. Scepter

Harvest

Comparative cost (per acre)

	1992		1994
	<u>Jacaues</u>	<u>SO1</u>	<u>Jacaues</u>
Seed	\$11.80	\$15.00	\$15.00
Total	\$11.80	\$15.00	\$15.00

Early vs. Late Soybean Planting Date, Jim and Mike Stewart

Page 2

VARIABLE	1992 SOYBEANS	1993 SOYBEANS+	1994 SOYBEAN	1995 SOYBEANS +
Early population (seeds/acre)				
Early Jacques	239,000 ***	—	—	—
Early SO1	227,000	—	—	—
Late Jacques	261,000	—	—	—
Late SO1	246,000	—	—	—
Final population (seeds/acre)				
Early Jacques	113,000 ***	—	—	—
Early SO1	79,000	—	—	—
Late Jacques	113,000	—	—	—
Late SO1	80,000	—	—	—
Population loss				
Early Jacques	52.7%	—	—	—
Early SO1	65.2%	—	—	—
Late Jacques	56.8%	—	—	—
Late SO1	67.4%	—	—	—
Plant height				
Early Jacques	31.0" ***	—	—	—
Early SO1	29.3"	—	—	—
Late Jacques	31.0"	—	—	—
Late SO1	29.4"	—	—	—
Pod height				
Early Jacques	5.5" ***	—	—	—
Early SO1	4.5"	—	—	—
Late Jacques	5.5"	—	—	—
Late SO1	4.5"	—	—	—

*** significantly different at 99% confidence level

+ no yield results due to weather conditions

**Early vs. Late Soybean Planting Date With Two Varieties,
Jim and Mike Stewart
Page 3**

VARIABLE	1992 SOYBEANS	1993 SOYBEANS +	1994 SOYBEANS	1995 SOYBEANS +
Moisture (%)				
Early Jacques	10.4 ***	—	10.3	—
Early SOI	9.7	—	—	—
Late Jacques	14.2	—	10.2	—
Late SOI	11.0	—	—	—
Test weight (pounds/bushel)				
Early Jacques	57.1 ***	—	55.0	—
Early SOI	56.6	—	—	—
Late Jacques	56.1	—	54.6	—
Late SOI	56.4	—	—	—
Yield (13 %) (bushels/acre)				
Early Jacques	57 **	—	56 ***	—
Early SOI	51	—	—	—
Late Jacques	66	—	44	—
Late SOI	51	—	—	—

** significantly different at 95 % confidence level

*** significantly different at 99% confidence level

+ no yield results due to weather conditions

Summary: Statistically significant yield differences have been found in 1992 and 1994; however, additional data is required to draw conclusions.