

BECK'S Early Plant™ Corn Technology and Planting Date Study - 2005

Location:	N2 plot	Previous Crop:	Soybeans
Planted:	Various	Tillage:	V-Rip / S-tine
Harvested:	October 7, 2005	Herbicide:	PPI: 2.5 qts. Bicep II Magnum / 1.0 qt. Princep
Rows:	30" rows		Post: 1.6 qts. Lexar / 8 oz. Stinger
Population:	32,454 seeds/A.	Insecticide:	Aztec

RAINFALL	
April	3.4 in.
May	3.2 in.
June	4.0 in.
July	6.8 in.
August	<u>3.3 in.</u>
Total	20.7 in.

Note: All hybrids were treated with FaStart in this study.

Purpose: We know from our Practical Farm Research that earlier planted corn generally has greater yield potential than later planted corn. As farm size increases, it becomes a challenge to plant all acres in a timely manner. Beck's and Landec Ag are working together to bring Beck's customers the latest in seed coating technology, Intellicoat Early Plant™. This polymer technology controls the germination of seed and provides protection from chilling injury in harsh early soil environments to enable early planting even in cold conditions. Intellicoat Early Plant™ technology enables farmers to take advantage of suitable field working days that occur two to three weeks prior to traditional planting dates.

With Early Plant™ corn technology, farmers are offered the opportunity of planting a portion of their fields early when the potential for high yields is greater.

Planting Date	Brand-Hybrid	Harvested Population	Test Weight	Percent Broken Stalks	Percent Root Lodging	Percent Moisture	Bushels* Per Acre
March 18	BECK 5125CBRW Early Plant™	22,000	58.5	2.3	6.8	16.2	194.5
March 18	BECK 5727CBRW Early Plant™	25,000	57.5	0.0	2.0	17.6	194.1
	AVERAGE	23,500	58.0	1.1	4.4	16.9	194.3
March 18	BECK 5125CBRW	17,500	58.5	0.0	0.0	15.6	150.8
March 18	BECK 5727CBRW	21,000	57.5	0.0	0.0	18.1	180.3
	AVERAGE	19,250	58.0	0.0	0.0	16.9	165.6
April 4	BECK 5125CBRW Early Plant™	30,500	57.0	8.2	1.6	16.7	218.9
April 4	BECK 5727CBRW Early Plant™	28,000	60.0	1.8	35.7	17.6	213.5
	AVERAGE	29,250	58.5	5.0	18.7	17.2	216.2
April 4	BECK 5125CBRW	26,000	57.5	3.8	0.0	16.5	210.1
April 4	BECK 5727CBRW	29,000	59.5	3.4	6.9	17.0	191.6
	AVERAGE	27,500	58.5	3.6	3.4	16.8	200.9
April 15	BECK 5125CBRW	30,500	57.5	1.6	1.6	17.0	225.8
April 15	BECK 5727CBRW	31,500	60.0	4.8	11.1	18.0	192.7
	AVERAGE	31,000	58.8	3.2	6.4	17.5	209.3
April 29	BECK 5125CBRW	32,500	55.5	0.0	0.0	18.3	214.2
April 29	BECK 5727CBRW	28,500	57.5	0.0	40.4	18.8	180.7
	AVERAGE	30,500	56.5	0.0	20.2	18.6	197.5
May 13	BECK 5125CBRW	28,500	54.5	0.0	0.0	20.1	199.6
May 13	BECK 5727CBRW	27,000	56.0	0.0	13.0	20.1	162.0
	AVERAGE	27,750	55.3	0.0	6.5	20.1	180.8
May 26	BECK 5125CBRW	34,500	55.0	0.0	0.0	22.4	182.3
May 26	BECK 5727CBRW	33,000	54.0	0.0	1.5	21.8	143.1
	AVERAGE	33,750	54.5	0.0	0.8	22.1	162.7
June 1	BECK 5125CBRW	33,000	55.5	0.0	1.5	22.8	192.8
June 1	BECK 5727CBRW	29,000	54.0	0.0	27.6	24.1	146.4
	AVERAGE	31,000	54.8	0.0	14.6	23.5	169.6

*Bushels per acre corrected to 15% moisture.

BECK'S Early Plant™ Corn Technology and Planting Date Study - (continued) - 2005

Summary:

The long-term average at our Central Indiana research site has shown that early April is the highest yielding time to plant corn. Yields gradually decline after late April. In 2005, April 4 and April 15 proved to be the highest yielding time period to plant. We saw some significant differences in the hybrids in this year's study. Beck 5125CBRW maintained more consistent yields at all planting dates compared to Beck 5727CBRW, which suffered more from high winds and root lodging that occurred in late July.



The Early Plant™ technology gave yield and stand improvements over the uncoated seed planted on the same dates. (28.7 Bu./A. advantage on March 18, and 15.3 Bu./A. advantage on April 4.)

Farmers can realize the greatest advantage for Early Plant™ technology by comparing to yields on later planting dates. Avoiding late planting and reducing drying time and costs are the real time and economic benefits that the farmer realizes by using Early Plant™ technology.

The graph below illustrates the last four years of testing, where Early Plant technology has provided over 62 bushels per acre average yield advantage and 4.6% lower harvest moisture when comparing plantings of Early Plant corn that occurred from March 18 through April 15 to corn planted from May 13 through June 1. The graph also shows the 14.9 bushels per acre benefit of Early Plant corn compared to uncoated corn planted at the same time.

The combined yield and drying cost advantage can be seen in the worksheet below.

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Net Revenue Worksheet (Based on Four Year Data)	Early Plant Corn Planted Mar. 18 – Apr. 15	Late Planted Corn Planted May 13 – June 1
Average Yield	219.4 Bu./A.	156.9 Bu./A.
Gross Profit (Bu./A. x \$2.00)	\$438.80	\$313.80
Less Drying Costs (\$0.026 / pt./Bu.)	<u>- 27.95</u>	<u>-38.75</u>
	\$410.85	\$275.05
Early Plant Cost (Per Acre) at 30,000 pop. (\$35/unit ÷ 2.67 units per acre)	<u>-13.11</u>	<u>-0-</u>
	\$397.74	\$275.05

