

## BECK'S Soybean Row Width & Population Study – 2010

<b>Planted:</b>	May 18, 2010	<b>Population:</b>	Various
<b>Harvested:</b>	October 2, 2010	<b>Previous Crop:</b>	Corn
<b>Rows:</b>	Various	<b>Tillage:</b>	Reel Disk
<b>Product Tested:</b>	BECK 299NR™*	<b>Herbicide:</b>	32 oz. Glyphos Extra Plus (twice)

RAINFALL	
April	2.9 in.
May	4.0 in.
June	8.7 in.
July	2.1 in.
August	<u>1.8 in.</u>
Total	19.5 in.

**Purpose:** In this study, we compared four row widths (Twins, 15", 20", and 30" rows) at various planting populations from 75,000 - 250,000 seeds/A. Seed costs for each entry are calculated to determine net returns and to establish economic optimum planting rates for each row width system.

Planted Population	Bushels <sup>†</sup> Per Acre	Approx. Seed Cost	\$ Net Return <sup>^</sup>	Net Return Rank
<b><u>15" ROWS</u></b>				
75,000	63.4	\$ 22.41	\$ 570.38	8
100,000	67.0	\$ 29.88	\$ 596.57	7
125,000	68.5	\$ 37.35	\$ 603.13	6
150,000	71.2	\$ 44.82	\$ 620.90	3
<b>175,000</b>	<b>73.4</b>	<b>\$ 52.28</b>	<b>\$ 634.01</b>	<b>1</b>
200,000	73.2	\$ 59.75	\$ 624.67	2
225,000	72.3	\$ 67.22	\$ 608.78	4
250,000	<u>72.6</u>	<u>\$ 74.69</u>	\$ 604.12	5
AVERAGE	70.2	\$ 48.55		
<b><u>20" ROWS</u></b>				
75,000	61.8	\$ 22.41	\$ 555.42	5
100,000	66.3	\$ 29.88	\$ 590.03	2
125,000	65.4	\$ 37.35	\$ 574.14	3
<b>150,000</b>	<b>68.1</b>	<b>\$ 44.82</b>	<b>\$ 591.92</b>	<b>1</b>
175,000	64.9	\$ 52.28	\$ 554.53	6
200,000	63.0	\$ 59.75	\$ 529.30	7
225,000	63.6	\$ 67.22	\$ 527.44	8
250,000	<u>67.5</u>	<u>\$ 74.69</u>	\$ 556.43	4
AVERAGE	65.1	\$ 48.55		
<b><u>30" ROWS</u></b>				
75,000	61.0	\$ 22.41	\$ 547.94	5
100,000	62.5	\$ 29.88	\$ 554.50	4
125,000	63.7	\$ 37.35	\$ 558.25	3
150,000	64.7	\$ 44.82	\$ 560.13	2
<b>175,000</b>	<b>65.9</b>	<b>\$ 52.28</b>	<b>\$ 563.88</b>	<b>1</b>
200,000	64.8	\$ 59.75	\$ 546.13	6
225,000	65.0	\$ 67.22	\$ 540.53	7
250,000	<u>64.6</u>	<u>\$ 74.69</u>	\$ 529.32	8
AVERAGE	64.0	\$ 48.55		
<b><u>TWIN ROWS</u></b>				
<b>75,000</b>	<b>66.6</b>	<b>\$ 22.41</b>	<b>\$ 600.30</b>	<b>1</b>
100,000	66.7	\$ 29.88	\$ 593.77	2
125,000	66.6	\$ 37.35	\$ 585.36	3
150,000	64.5	\$ 44.82	\$ 558.26	4
175,000	64.4	\$ 52.28	\$ 549.86	5
200,000	64.3	\$ 59.75	\$ 541.45	6
225,000	63.9	\$ 67.22	\$ 530.24	7
250,000	<u>63.8</u>	<u>\$ 74.69</u>	\$ 521.84	8
AVERAGE	65.1	\$ 48.55		

<sup>†</sup>Bushels per acre corrected to 13% moisture.

\*XL™ brand seed is distributed by Beck's Superior Hybrids, Inc.   ™XL is a trademark of Pioneer Hi-Bred.

<sup>^</sup>Net return is bas on soybean price of \$9.35/Bu. Seed Price based on \$38.84/bag

## Soybean Row Width & Population Study – Continued

**Summary:** 15" rows dominated in this study with average yields of 70.2 Bu./A. and out-yielded all other row width systems by 5.1 - 6.2 Bu./A. (Figure 2). 15" rows are very common throughout Beck's marketing area as this row width system has performed very well in past years.

20" and Twin rows both averaged 65.1 Bu./A throughout the population entries, while averaging 5.1 Bu./A. below 15" rows. Twin rows offered the highest yields at the lowest populations and yields decreased as populations got higher. This was opposite of the trend of all other row widths. However, twin row yields varied the least (2.9 Bu./A.) as population changed.

30" rows fell a bit short in this study at 64 Bu./A. and yielded 6.8 Bu. less than the 15" row system. Figure 2 illustrates the advantages in net returns at various populations over the past 7 years between 15" and 30" row systems.

It is noteworthy to mention that three of the four row width systems offered economic optimum planting rates at 150,000 -175,000 seeds/A.

Figure 1

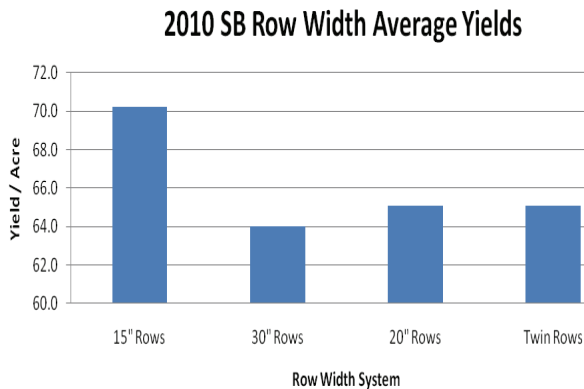


Figure 2

