

BECK'S Intensive vs. Low Management Wheat, Double-Crop Soybean Study – 2010

Planted: June 15, 2010 **Population:** 220,000
Harvested: October 6 & 8 2010 **Previous Crop:** Wheat
Rows: Eleven 15" rows **Tillage:** No-Till
Herbicide: 32 oz. Cornerstone

| RAINFALL | |
|----------|----------------|
| April | 4.0 in. |
| May | 3.1 in. |
| June | 2.5 in. |
| July | 2.5 in. |
| August | <u>1.4 in.</u> |
| Total | 13.5 in. |

Purpose: This is the second half of a two crop study. In the fall of 2009, a wheat study was planted to compare both high management and low management approaches to growing wheat using various tillage practices and row spacing. The soybean portion of this study was designed for double-crop beans planted into the stubble that remained from the previous wheat study. The goal is to evaluate both the effect on wheat and double-crop soybean yield.

High Management = Split applied N, 0.5 oz. Nimble , 8 oz. Twinline @ Heading , & 13.5 oz. Caramba @ Feekes 10.51

Low Management = Single application N w/ Inhibitor, & 0.5 oz. Nimble.

| Brand | Wheat Row Spacing | Wheat Treatment | Wheat Percent Moisture | Wheat Bushels [†] Per Acre | Soybean Percent Moisture | Soybean Bushels [†] Per Acre | Net Income [^] |
|---|-------------------|-----------------|------------------------|-------------------------------------|--------------------------|---------------------------------------|-------------------------|
| BECK 432NR™* (Conventional-Till Wheat) | | | | | | | |
| BECK 113 | 7.5" | Low Management | 16.2 | 81.4 | 10.5 | 68.1 | \$ 955.18 |
| BECK 137 | 7.5" | Low Management | 15.7 | 83.5 | 10.3 | 67.2 | \$ 956.20 |
| BECK 122 | 7.5" | Low Management | <u>16.0</u> | <u>86.2</u> | <u>9.9</u> | <u>66.4</u> | <u>\$ 960.84</u> |
| AVERAGE | | | 16.0 | 83.7 | 10.2 | 67.2 | \$ 957.09 |
| BECK 113 | 7.5" | High Management | 15.8 | 85.4 | 11.1 | 66.2 | \$ 913.94 |
| BECK 137 | 7.5" | High Management | 15.0 | 83.2 | 11.2 | 66.2 | \$ 904.07 |
| BECK 122 | 7.5" | High Management | <u>15.0</u> | <u>80.9</u> | <u>10.5</u> | <u>66.7</u> | <u>\$ 898.41</u> |
| AVERAGE | | | 15.3 | 83.2 | 10.9 | 66.4 | \$ 905.94 |
| BECK 122 | 15" | Low Management | 15.2 | 89.4 | 10.4 | 65.3 | \$ 964.92 |
| BECK 137 | 15" | Low Management | 15.1 | 75.6 | 10.2 | 62.6 | \$ 877.72 |
| BECK 113 | 15" | Low Management | <u>15.4</u> | <u>80.2</u> | <u>10.1</u> | <u>60.9</u> | <u>\$ 882.47</u> |
| AVERAGE | | | 15.2 | 81.7 | 10.2 | 62.9 | \$ 907.91 |
| BECK 137 | 15" | High Management | 14.8 | 80.1 | 10.6 | 65.5 | \$ 883.60 |
| BECK 113 | 15" | High Management | 14.4 | 76.6 | 10.0 | 64.2 | \$ 855.73 |
| BECK 122 | 15" | High Management | <u>14.8</u> | <u>75.2</u> | <u>10.5</u> | <u>64.2</u> | <u>\$ 849.45</u> |
| AVERAGE | | | 14.7 | 77.3 | 10.4 | 64.6 | \$ 862.62 |
| BECK 451NR (No-Till Wheat) | | | | | | | |
| BECK 122 | 7.5" | Low Management | 16.2 | 74.5 | 9.6 | 67.7 | \$ 918.96 |
| BECK 137 | 7.5" | Low Management | 14.9 | 72.4 | 10.1 | 67.3 | \$ 905.79 |
| BECK 113 | 7.5" | Low Management | <u>15.0</u> | <u>78.6</u> | <u>10.3</u> | <u>65.4</u> | <u>\$ 915.87</u> |
| AVERAGE | | | 15.4 | 75.2 | 10.0 | 66.8 | \$ 913.69 |
| BECK 113 | 7.5" | High Management | 14.9 | 77.7 | 12.5 | 67.3 | \$ 889.66 |
| BECK 122 | 7.5" | High Management | 14.3 | 62.5 | 10.7 | 65.8 | \$ 807.38 |
| BECK 137 | 7.5" | High Management | <u>14.2</u> | <u>67.9</u> | <u>10.2</u> | <u>64.8</u> | <u>\$ 822.28</u> |
| AVERAGE | | | 14.5 | 69.4 | 11.1 | 66.0 | \$ 840.23 |
| BECK 113 | 15" | Low Management | 14.6 | 82.4 | 9.9 | 67.9 | \$ 956.30 |
| BECK 122 | 15" | Low Management | 14.5 | 72.0 | 9.7 | 61.9 | \$ 853.51 |
| BECK 137 | 15" | Low Management | <u>14.8</u> | <u>83.9</u> | <u>10.1</u> | <u>59.1</u> | <u>\$ 880.76</u> |
| AVERAGE | | | 14.6 | 79.4 | 9.9 | 63.0 | \$ 897.02 |
| BECK 122 | 15" | High Management | 14.5 | 65.7 | 9.7 | 68.4 | \$ 846.06 |
| BECK 113 | 15" | High Management | 13.9 | 58.8 | 9.4 | 66.4 | \$ 796.38 |
| BECK 137 | 15" | High Management | <u>13.8</u> | <u>61.6</u> | <u>10.1</u> | <u>65.2</u> | <u>\$ 797.73</u> |
| AVERAGE | | | 14.1 | 62.0 | 9.7 | 66.7 | \$ 813.55 |

[†]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.

[^]Net income is gross income for wheat minus cost of fungicides, nitrogen inhibitors, spray application, tillage and planting costs plus gross income from soybeans.

Spray application cost based on \$5.50/A. All other tillage and planting costs based on "Custom Rates Applicable to Kentucky (2010)", University of KY, AEC 2010-03.

BECK'S Intensive vs. Low Management Wheat, Double-Crop Soybean Study – Continued

| Soybean Summary | | | |
|------------------------|---------------------|----------------------------------|----------------------------|
| | Percent Moisture | Bushels [†] Per Acre | Net Income [^] |
| BECK 432NR™* | 10.4 | 65.3 | ---- |
| BECK 451NR | 10.2 | 65.6 | ---- |
| Low Management Wheat | 10.1 | 65.0 | \$ 919.04 |
| High Management Wheat | 10.5 | 65.9 | \$ 855.39 |
| 7.5 in Row Wheat | 10.6 | 66.6 | \$ 904.05 |
| 15 in Rows Wheat | 10.1 | 64.3 | \$ 870.39 |

[†]Bushels per acre corrected to 13% moisture.

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Spray application cost based on \$5.50/A. All other tillage and planting costs based on "Custom Rates Applicable to Kentucky (2010)", University of KY, AEC 2010-03.

Summary: Adequate soil moisture at planting and timely rainfall events in July and August resulted in very high double crop soybean yields at the Southern IN PFR farm in 2010. Both BECK 432NR™* and BECK 451NR performed very well with only a 0.3 Bu./A. difference in yield. Double-crop soybeans following 7.5 inch row wheat out yielded entries following 15 inch row wheat by an average of 2.3 Bu./A. Double-crop soybeans following high management wheat out yielded entries planted behind low management wheat by 0.9 Bu./A. However, net income figures that account for the gross income of both wheat and soybeans minus the difference in input costs between these management systems result in significantly higher profits for the low management wheat and double crop soybean system.

