

## BECK'S Closing Wheel Study - 2014

Central Indiana Practical Farm Research

PLANTED:	May 2, 2014	PREVIOUS CROP:	Corn
HARVESTED:	September 30, 2014	TILLAGE:	No-Till
POPULATION:	34,000 seeds/A.	HERBICIDE:	Burndown: 1 oz. Sharpen®, 22 oz. Roundup PowerMAX®
ROWS:	Two 30" Rows	Pre:	1 qt. Princep® 4L, 2.3 qt. Bicep II Magnum®
REPLICATIONS:	Two (averaged)	Post:	1.7 qt. Lexar®, 1 qt. Roundup PowerMAX Escalate™
		INSECTICIDE:	
		PRODUCT TESTED:	BECK 5114A4

### PURPOSE:

To determine what effects different closing wheel types have on plant emergence and yield. Eight closing wheel combinations were tested on four different pressure settings. The control in this study was a set of solid rubber closing wheels. **Unfavorable planting conditions were targeted for this study.**

PRESSURE SETTING: FIRST NOTCH				PRESSURE SETTING: SECOND NOTCH			
Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.	Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.
2 Pro Stitches	28,750	225.1	+6.1	2 Pro Stitches	30,500	218.4	+0.1
1 Dawn® Curvetine™ & 1 Dawn® Gaugetine™	31,750	220.5	+1.5	2 Solid Rubbers (Control)	30,063	218.3	---
2 Yetter Spikes with Drag Chain	29,750	220.1	+1.1	2 Yetter Spikes with Drag Chain	30,313	214.9	-3.5
2 Solid Rubbers (Control)	27,375	219.0	---	1 Dawn Gaugetine & 1 Solid	26,500	212.1	-6.3
2 Dawn Curvetines	27,813	215.3	-3.7	2 Dawn Curvetines	27,438	208.9	-9.5
1 Dawn Gaugetine & 1 Solid	27,500	212.0	-7.0	1 Dawn Curvetine & 1 Dawn Gaugetine	29,500	208.9	-9.5
1 Yetter Spike & 1 Solid	28,000	205.1	-13.9	2 Yetter Paddles	25,875	204.2	-14.2
2 Yetter Paddles	22,313	197.7	-21.3	1 Yetter Spike & 1 Solid	28,000	201.1	-17.3
AVERAGE	27,906	214.4	-5.3	AVERAGE	28,524	210.9	-8.6
PRESSURE SETTING: THIRD NOTCH				PRESSURE SETTING: FOURTH NOTCH			
Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.	Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.
2 Pro Stitches	30,688	218.4	+10.5	2 Dawn Curvetines	30,688	215.9	+15.6
2 Yetter Spikes with Drag Chain	29,813	218.4	+10.5	2 Yetter Spikes with Drag Chain	29,500	215.4	+15.1
1 Dawn Curvetine & 1 Dawn Gaugetine	30,188	211.7	+3.8	2 Pro Stitches	28,625	211.5	+11.2
2 Solid Rubbers (Control)	29,188	207.9	---	2 Yetter Paddles	28,813	208.5	+8.2
2 Yetter Paddles	29,250	206.4	-1.5	1 Yetter Spike & 1 Solid	29,125	207.2	+6.9
2 Dawn Curvetines	24,313	203.8	-4.1	1 Dawn Curvetine & 1 Dawn Gaugetine	26,313	207.0	+6.7
1 Yetter Spike & 1 Solid	23,625	200.7	-7.2	1 Dawn Gaugetine & 1 Solid	28,563	202.7	+2.4
1 Dawn Gaugetine & 1 Solid	26,250	198.6	-9.3	2 Solid Rubbers (Control)	25,938	200.3	---
AVERAGE	27,914	208.2	+0.4	AVERAGE	28,446	208.6	+9.4
CLOSING WHEEL SUMMARY				2 YEAR CLOSING WHEEL SUMMARY			
Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.	Closing Wheel	Emerged Pop.	Bushels <sup>†</sup> Per Acre	Bu./A. Diff.
2 Pro Stitches	29,641	218.3	+7.0	2 Yetter Spikes with Drag Chain	30,219	211.3	+4.7
2 Yetter Spikes with Drag Chain	29,844	217.2	+5.9	2 Dawn Curvetines	29,844	211.0	+4.4
1 Dawn Curvetine & 1 Dawn Gaugetine	29,438	212.0	+0.7	2 Yetter Paddles	29,000	208.5	+1.9
2 Solid Rubbers (Control)	28,141	211.3	---	2 Solid Rubbers (Control)	29,055	206.6	---
2 Dawn Curvetines	27,563	211.0	-0.3	1 Yetter Spike & 1 Solid	29,016	201.8	-4.8
1 Dawn Gaugetine & 1 Solid	27,203	206.3	-5.0	AVERAGE	29,427	207.8	+1.6
2 Yetter Paddles	26,563	204.2	-7.1				
1 Yetter Spike & 1 Solid	27,188	203.5	-7.8				
AVERAGE	28,198	210.5	-0.9				

<sup>†</sup>Bu./A. corrected to 15% moisture.

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The Dawn® Gaugetine™ and Curvetine™ combination is experimental. This combination is not recommended by Dawn Equipment Company.