

BECK'S 300 Bu. Attempt – Cont.

Summary: One of the trends we observed in this year’s attempt to reach 300 bushels per acre is the affect of population on final yield. The 29,188 population average in the continuous corn yielded more than the higher populations of 31,313 in corn after soybean, and 33,125 in the 15” rows. We believe the heat and moderate stress from only marginal rainfall during May, June and early July contributed to less than expected yields overall, and some hybrids at higher populations may have experienced more stress.

Beck Ex 2426CB (5538Hx1 Genetics), placed first or second in every study and was an exception to the plot trend. It averaged over 34,000 plants per acre, whereas Beck 6722RR also placed first or second with populations of 30,000 or less.

Stalk and root lodging increased as population increased on some hybrids like Beck 5222 and 4996. Beck 5222 performed best at moderate to lower populations and 4996 should be kept at moderate populations due to its tall plant height.

Note: We planted the 15” corn rows with a 30” corn planter by setting the Auto-Guide Steering to plant 15” over from the first pass. While this provided good row spacing, we did observe the effect of compaction on the rows where the tractor was driven. Slower, less uniform emergence and lack of emergence occurred in some of these compacted areas.

BECK'S 7.5” Row Study on Corn - 2005

Location:	300-5 S. plot	Previous Crop:	Pumpkins
Planted:	April 20, 2005	Tillage:	DMI S-tine
Harvested:	October 3, 2005	Herbicide:	PPI: 2.5 qts. Bicep II Magnum
Population:	70,000 seeds/A.		1.0 qt. Princep
Soil Type:	Genesee Silt Loam	Insecticide:	Post: 1.6 qts. Lexar / 8 oz. Stinger
			Poncho 1250

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.

Purpose: A study to determine how effectively high populations would perform when drilled in 7.5 inch rows.

Brand-Hybrid	Harvested Population	Test Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre
BECK 5959CB	70,000	49.4	40.0	27.1	180.7

Summary: Last year’s results produced high yield and moderate stalk lodging on a later harvest date. This year, we harvested a month earlier and encountered more stalk lodging pressure as well as lower yields.

*Bushels per acre corrected to 15% moisture.

