ILLINOIS PFR PRACTICAL FARM RESEARCH®

Twin Row vs. 15” vs. 30” Row Corn Population Study – 2008

Planted: May 5, 2008
Harvested: September 27, 2008
Population: Various
Previous Crop: Corn
Soil Type: Silty Clay Loam

Tillage: Chisel/Field Cultivate
Herbicide: Degree Xtra
Roundup Original Max
Insecticide: None

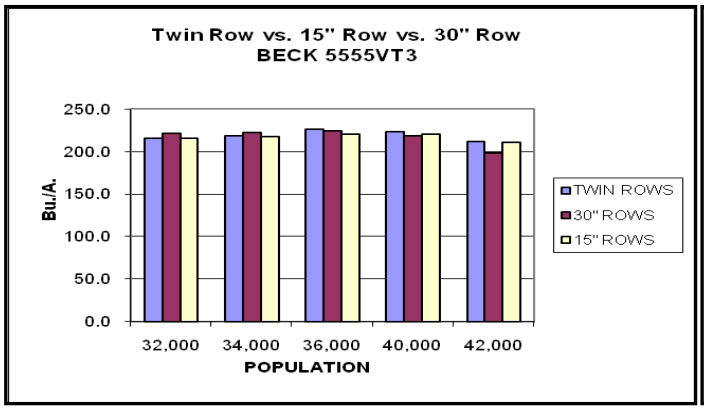
RAINFALL	
April	1.88 in.
May	6.41 in.
June	4.44 in.
July	7.05 in.
August	0.91 in.
Total	20.69 in.

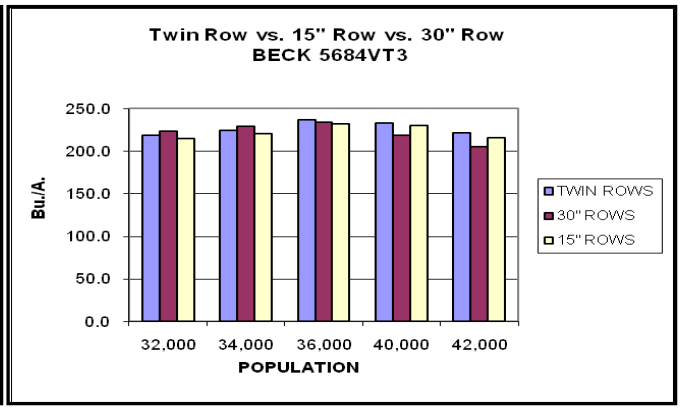
Purpose: To evaluate 30 inch corn, 15 inch corn, and twin row corn (7.5 inch rows on 30 inch centers) at five planting populations ranging from 32,000 to 42,000 seeds per acre.

	Planted Population	Percent Moisture	Bushels* Per Acre	Bu./A. Compared to 30” Row	Cost of Seed/Acre	$ Net^ Return
BECK 5555VT3						
Twin Row	32,000	25.1	215.4	-5.6	$77.72	$999.28
30" Row	32,000	26.5	221.0		$77.72	$1,027.28
15” Row	32,000	25.4	215.0	-6.0	$77.72	$997.28
Twin Row	34,000	26.5	218.6	-3.3	$82.58	$1,010.42
30" Row	34,000	26.5	221.9		$82.58	$1,026.92
15” Row	34,000	27.9	217.4	-4.5	$82.58	$1,004.42
Twin Row	36,000	26.0	225.7	+1.3	$87.44	$1,041.06
30" Row	36,000	27.0	224.4		$87.44	$1,034.56
15” Row	36,000	26.7	220.1	-4.3	$87.44	$1,013.06
Twin Row	40,000	25.8	223.1	+5.1	$97.16	$1,018.35
30" Row	40,000	26.0	218.0		$97.16	$992.85
15” Row	40,000	26.4	220.4	+2.4	$97.16	$1,004.85
Twin Row	42,000	25.4	211.7	+13.5	$102.01	$956.49
30" Row	42,000	25.8	198.2		$102.01	$888.99
15” Row	42,000	27.3	210.1	+11.9	$102.01	$948.49
AVERAGE		26.3	217.4	+1.1		
BECK 5684VT3						
Twin Row	32,000	28.3	218.7	-4.1	$77.72	$1,015.78
30" Row	32,000	28.1	222.8		$77.72	$1,036.28
15” Row	32,000	28.1	214.1	-8.7	$77.72	$992.78
Twin Row	34,000	24.4	224.6	-4.4	$82.58	$1,040.42
30" Row	34,000	27.0	229.0		$82.58	$1,062.42
15” Row	34,000	25.8	220.2	-8.8	$82.58	$1,018.42
Twin Row	36,000	26.0	236.7	+3.2	$87.44	$1,096.06
30" Row	36,000	25.9	233.5		$87.44	$1,080.06
15” Row	36,000	26.7	231.4	-2.1	$87.44	$1,069.56
Twin Row	40,000	25.8	232.7	+14.3	$97.16	$1,066.35
30" Row	40,000	25.8	218.4		$97.16	$994.85
15” Row	40,000	26.4	229.6	+11.2	$97.16	$1,050.85
Twin Row	42,000	25.4	220.9	+15.8	$102.01	$1,002.49
30" Row	42,000	26.0	205.1		$102.01	$923.49
15” Row	42,000	27.3	215.1	+10.0	$102.01	$973.49
AVERAGE		26.5	223.5	+2.6		

*Bushels per acre corrected to 15% moisture.
^Net return = Bu./A. x $5.00/Bu. - Cost of seed.

Twin Row vs. 15” vs. 30” Row Corn Population Study – Continued





Summary: All row widths showed the highest net return at the 36,000 planting population. 30” rows out-yielded the narrow row widths at the lower populations of 32,000 and 34,000. Above 36,000, the narrow rows took over and overwhelmingly out-yielded the 30” rows. In overall planting populations, the twin rows out-yielded the 30” rows by 3.6 Bu./A. while the 15” rows surpassed the 30” rows by 0.4 Bu./A.

X-Tra Power™ Corn Study – 2008

Planted: April 30, 2008
Harvested: October 22, 2008
Rows: Four 30” rows
Seeding Rate: 34,000 seeds/A.

Previous Crop: Soybeans
Tillage: Field Cultivator
Herbicide: Roundup Original Max Degree Xtra

RAINFALL	
April	1.88 in.
May	6.41 in.
June	4.44 in.
July	7.05 in.
August	0.91 in.
Total	20.69 in.

Purpose: X-Tra Power is a product from StollerUSA that contains Magnesium, Copper, Manganese, Zinc and chelated with Ethanol. X-Tra Power was applied on both sides of the seed trench through seed firmers on the planter.

Product	Test* Weight	Percent Broken Stalks	Percent Moisture	Bushels* Per Acre	Net Return^	Return Advantage
BECK 6733HXR™**						
X-Tra Power	60.4	1.0	28.1	273.3	$1,358.50	+$4.96
Control	60.8	1.0	28.2	270.7	$1,353.54	
BECK 5244VT3						
X-Tra Power	58.0	1.0	23.5	239.2	$1,188.00	+$4.13
Control	58.1	1.0	23.3	236.8	$1,183.87	

*Bushels per acre and test weight corrected to 15% moisture.
^Net Return = Bu./A. x $5.00/Bu. Less $8.00 (cost of X-Tra Power at 1qt. per acre).
**XL Brand distributed by Beck’s Superior Hybrids, Inc.
X-Tra Power is a trademark of StollerUSA.

Summary: X-Tra Power did increase corn yields by an average of 2.5 Bu./A. on both BECK 6733HXR™** and BECK 5244VT3. Calculating cost of product at $8.00 per acre with a 1 qt. rate, X-Tra Power applications returned on average $4.55 per acre.