

Corn Variety Performance

John Barker, AGNR Extension Educator- Knox County

Objective

To evaluate corn varieties including Bt hybrids for Knox County.

Background

Crop Year:	1997	Fertilizer Applied:	Actual 180-112-93
Cooperator:	Ron and Bill Piar	Herbicide:	PRE- Bicep 2.4 qt. SPOT-Exceed 1 oz.;
County/Town:	Knox/ Mount Vernon		Banvel 4 oz.
Major Soil Type:	Ockley Silt Loam	Variety:	See Methods
Previous Crop:	Soybean	Planting Rate:	31,700 seeds/A
Tillage:	Field cultivator	Planting Date:	April 6, 1997
Soil Test:	pH 6.5-7.0; P 63-104ppm; K 402-603ppm	Harvest Date:	November 4, 1997

Results

Standard Corn Hybrids								
Variety	Final Stand (plants/A)	Lodging (%)	Barren (%)	Maturity ¹ (days)	Moisture (%)	Actual Yield (bu/A)	Adjusted Yield ² (bu/A)	Income ³
Midwest 7636	28,000	0	6	109	26.8	192.3	199.1	\$474.60
DeKalb 607	27,667	2	8	110	21.7	182.7	191.9	\$474.16
DeKalb 604	28,333	2	0	110	22.4	182.5	186.4	\$470.47
DEF 5300	30,667	4	8	111	26.6	183.4	189.8	\$453.56
Pioneer 33Y18	31,667	4	2	112	26.9	182.7	188.6	\$450.36
DeKalb 595	27,333	4	10	109	26	180.9	185.7	\$449.86
DeKalb 580	32,667	2	0	108	20	170.5	191.1	\$449.77
Callahan 7658	25,667	4	4	109	25.5	179.3	187.2	\$448.33
Pioneer 3313	29,000	0	4	113	24.3	176.7	181.1	\$446.98
Mycogen 2725	29,000	0	2	111	25.7	178.9	186.1	\$446.26
Great Lakes 5816	21,000	0	2	108	21.8	171	174.4	\$443.27
DeKalb 626	29,667	2	4	111	28.5	182.6	184.3	\$442.83
Pioneer 3335	31,333	8	8	113	23.7	173.9	176.5	\$442.47
Pioneer 3491	27,333	6	2	107	22.8	171.7	167.3	\$440.76
DeKalb 560	33,000	8	14	106	21.3	166.5	169.9	\$434.23
Check Average				111	25.6	171.7		\$428.72

Great Lakes 6317	31,667	0	6	113	28.2	174.2	176.5	\$423.62
Pioneer 34G81	28,000	2	10	106	23.3	164.9	167.6	\$421.37
Callahan 7557	30,333	0	4	110	27.5	171.9	175.6	\$421.06
DeKalb 546	30,000	4	8	104	21.3	158	158.3	\$411.56
Mycogen 7250	27,333	4	2	113	31.4	172.7	172.9	\$406.28
Mycogen 2674	30,000	2	8	108	23	157.1	161.9	\$402.49
Golden Harv 2547	33,000	2	16	111	25.1	159.7	162.5	\$400.80
Golden Harv 2495	29,000	0	6	108	25.9	160.7	168.7	\$400.09
DeKalb 642	26,667	2	4	114	29.9	163.6	165.8	\$390.96
Novartis Max21	27,667	0	12	107	23.4	147.8	156.9	\$377.30
Callahan 7856	28,667	2	16	108	22.5	145.3	169.3	\$374.04
Midwest 8511	28,667	0	12	112	30.3	151.5	153.9	\$360.55
DEF 5666	28,667	0	10	112	31.6	145.8	149	\$342.24

1 Based upon company-supplied data

2 Yield adjusted by comparing yields of check hybrid on each side of individual hybrid with the overall check average.

3 Income per acre determined by multiplying actual yield by \$2.75/bushel and subtracting a drying cost of 2.5 cents per point of moisture down to 15.5%.

Bt Corn Hybrids

Variety	Final Stand (plants/A)	Lodging (%)	Barren (%)	Maturity ¹ (days)	Moisture (%)	Actual Yield (bu/A)	Adjusted Yield ² (bu/A)	Income ³
Novartis Max454	31,667	0	2	111	23.7	193.5	197.3	\$492.43
Mycogen 2787	28,000	0	4	113	25.4	191.9	195.7	\$480.30
Pioneer 33Y09	30,667	0	2	111	27.1	186.2	188	\$458.08
Becks 5505	26,667	0	2	110	29.1	183.7	184.5	\$442.67
North. King 6800	31,667	2	6	112	29.6	181.1	186.3	\$434.21
Novartis Max21	30,000	4	6	107	22	167.7	172.6	\$433.90
Pioneer 33V08	31,333	2	0	110	23.4	163.3	165.4	\$416.82
DeKalb 566	23,000	2	0	106	20.2	151.5	154.5	\$398.90

1 Based upon company-supplied data

2 Yield adjusted by comparing yields of check hybrid on each side of individual hybrid with the overall check average.

3 Income per acre determined by multiplying actual yield by \$2.75/bushel and subtracting a drying cost of 2.5 cents per point of moisture down to 15.5%.

Summary and Notes

Bt plots were planted side by side in the same portion of the test area with the check variety planted on either side of each strip. Check variety for all standard and Bt varieties was DeKalb 618.

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