

Essex ICAT Corn Hybrid Trials 2008 (Essex SCIA Project)

Purpose: To evaluate corn hybrid performance in the Essex County area.

Methods:

Seed companies are asked to submit a corn hybrid for the trial. Each cooperator grows the same corn hybrids. The cooperator uses one of the hybrids as a check or selects a hybrid they are familiar with to use as a check. The plots are weighed off with a weigh wagon. This year there was an emphasis on hybrids with one or more traits.

Results:

See tables below.

Summary:

The results speak for themselves.

Next Steps:

The project will be run again next year.

Acknowledgements:

Thanks to all the seed companies who donated seed. The time and effort the cooperators put in to the plots is much appreciated. Thanks to Adam Hayes, OMAFRA for compiling the results.

Project Contacts:

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Location of Project Final Report:

Adam Hayes, OMAFRA, Ridgetown

Crop Advances: Field Crop Reports

Table 1: By Site Yield and Harvest Moisture and Indexed Across Sites

Cooperator Site Location				1		2		3		4		5		6		7		Average		
				Essex Demo Farm		Rob Repko		Denotter Farms		Marc Rivest		Jerome Deslippe		Malden Valley		Hylander Farms		% H2O	Yield (bu/ac)	Yield Index
Company	Hybrid	Traits	HU	Plot Mositure (%) and Yield (bu/ac) by Site																
Country Farm	CF870	Bt	3350	17.8	114.2	18.1	190.7	25.0	217.9	20.1	163.6	22.0	148.0	21.2	166.6	20.0	153.2	20.6	164.9	99%
Cropland	6331VT3	RR/Bt*	3400	19.2	128.2	17.1	168.3	23.0	200.9	18.8	164.0	22.0	140.8	20.6	136.2	18.8	142.7	19.9	154.4	92%
Dekalb	DKC57-86RR	RR/Bt	3250	17.6	134.0	17.0	164.0	25.6	229.9	19.2	152.9	19.0	145.5	19.8	160.6	18.4	165.2	19.5	164.6	98%
Hyland	HL B337	Bt	3275	19.2	143.0	16.8	188.2	26.3	249.2	18.9	181.5	20.4	150.4	20.9	166.0	19.6	153.8	20.3	176.0	105%
Maizex	MZ 54-40RR	RR	3350	18.0	137.2	17.8	178.3	25.8	228.8	19.4	167.2	19.6	155.9	19.6	141.7	19.2	156.0	19.9	166.4	100%
Mycogen	2C727	Bt/LL	3300	20.3	125.9	18.4	193.2	23.0	228.4	19.3	162.9	21.7	152.0	20.5	154.8	19.6	149.6	20.4	166.7	100%
Pioneer	35F40	RR/Bt/LL	3200	19.5	85.1	17.5	200.1	24.8	221.4	16.4	185.3	20.3	152.4	20.5	154.8	19.6	164.1	19.8	165.9	99%
# of Checks				3		8		3		0		3		3		4		Note: Pioneer 35F40 average does not include Essex Demo Site.		
Check Hybrid				DKC57-86RR		Maizex 546		CF870 non bt		NA		Pioneer 34P88		Maizex 540		Pioneer 34P89				
Check Yield (variance)				134.0 (3.1)		169.5 (21.3)		228.1 (20.8)		NA		152.1 (12.9)		149.9 (17.1)		170.3 (9)				
Planting Date				May 17, 2008		May 1, 2008		April 30, 2008		May 6, 2008		May 21, 2008		May 6, 2008		29-Apr-08				
Harvest date				4-Nov-2008		4-Nov-2008		10-Oct-2008		17-Oct-2008		7-Nov-2008		12-Oct-2008		18-Oct-2008				
Soil Type				Clay loam		Clay Loam		Sandy loam		Clay		Loam		Clay		Clay				
Tillage				No-till		Minimum		Minimum		Minimum		Vertical till		Minimum		Conventional				
# of Rows & Row Width				12 x 30"		6 x 30"		12 x 20"		12 x 30"		12 x 30"		12 x 38"		6 x 30"				
Row length (ft)				952		792		766		878		952		884		1635				
Previous Crop				W. Wheat		Soybeans		Soybeans		W. Wheat/RC		Corn		W. Wheat		Alfalfa				

Notes: Hybrids are indexed across all sites; Bold numbers indicate check hybrids; * indicates tolerant to European Corn Borer and Corn Rootworm, ¹ severe raccon damage to 35F40 ² deer damage to CF870 and 6331VT3.

Table 2: By Site Index within a Site.

Cooperator Site Location				1		2		3		4		5		6		7		Average		
				Essex Demo Farm		Rob Repko		Denotter Farms		Marc Rivest		Jerome Deslippe		Malden Valley		Hylander Farms		% H2O	Yield Index within Site	OCC Report Index
Company	Hybrid	Traits	HU	Plot Mositure (%) and Yield (bu/ac) by Site																
Country Farm	CF870	Bt	3350	17.8	87%	18.1	109%	25.0	96%	20.1	97%	22.0	99%	21.2	109%	20.0	95%	20.6	99%	
Cropland	6331VT3	RR/Bt*	3400	19.2	98%	17.1	96%	23.0	89%	18.8	98%	22.0	94%	20.6	89%	18.8	89%	19.9	93%	103%
Dekalb	DKC57-86RR	RR/Bt	3250	17.6	102%	17.0	93%	25.6	102%	19.2	91%	19.0	97%	19.8	105%	18.4	103%	19.5	99%	95%
Hyland	HL B337	Bt	3275	19.2	109%	16.8	107%	26.3	110%	18.9	108%	20.4	100%	20.9	108%	19.6	96%	20.3	106%	108%
Maizex	MZ 54-40RR	RR	3350	18.0	104%	17.8	102%	25.8	101%	19.4	99%	19.6	104%	19.6	92%	19.2	97%	19.9	100%	105%
Mycogen	2C727	Bt/LL	3300	20.3	96%	18.4	110%	23.0	101%	19.3	97%	21.7	101%	20.5	101%	19.6	93%	20.4	100%	102%
Pioneer	35F40	RR/Bt/LL	3200	19.5	NA	17.5	114%	24.8	98%	16.4	110%	20.3	102%	20.5	100%	19.6	102%	19.8	104%	98%

Locations indexed within the site