

## Twin Row Corn Study in Eastern Ontario

2011

### Objectives

- Compare corn yield in a twin row configuration to corn planted in 30-inch rows.
- Explore potential interactions in yield response to row spacing with plant population.

### Study Description

**Hybrid:** Pioneer® hybrid 38N88 (HX1,LL,RR2)

**Locations:** 8 locations in the Ottawa Valley

**Factors:** Row spacing, population

**Methods:**

- Plots were 20 ft wide (8 rows at 30-inch spacing)
- All locations were tilled, on rotated ground with minimum residue.
- In all fields, fertilizer was broadcast pre-plant and incorporated
- All plots were planted using a JD 7000 4 row 30-inch planter. The planter drawbar was swung over 3.5" in order to create the twin row arrangement.
- The planter was pulled with a RTK equipped tractor with narrow tires.

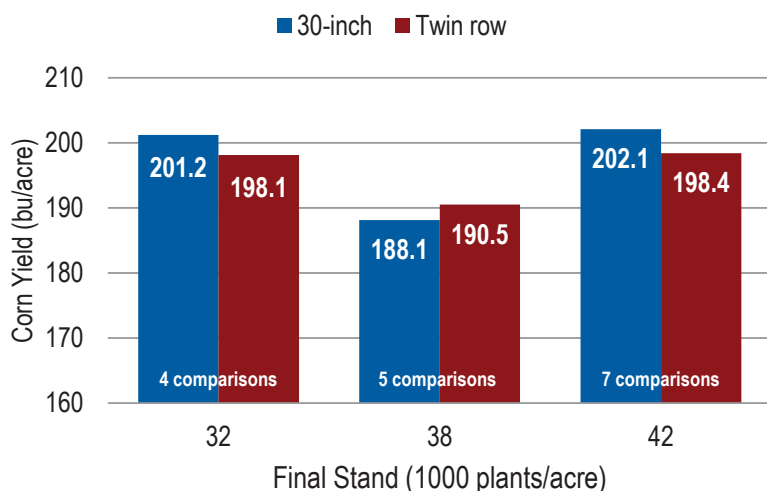


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### Plot Design

Row Spacing	Population (plants/acre)
30-inch	32,000
Twin Row	32,000
30-inch	38,000
Twin Row	38,000
30-inch	42,000
Twin Row	42,000

### Results



- Final stands varied substantially from the targeted populations in some plots; therefore, results are only reported for comparisons where stands were similar between row configurations.
- Yields were similar between twin row and 30-inch rows across populations; there was no apparent row spacing by population interaction.
- 2011 results are preliminary. More research is needed to determine if twin rows may provide a yield advantage over 30-inch rows.

We would like to acknowledge our cooperators as well as Agriculture Canada- ECROC Ottawa for loaning us the light bar and for John Deere-Greentech for the use of a tractor, planter and RTK equipment.

HX1 - Contains the Herculex® I Insect Protection trait for resistance to corn borer, LL - Contains the LibertyLink® gene for resistance to Ignite® herbicide, RR2 - Contains the Roundup Ready® Corn 2 gene. 2011 data are based on average of all comparisons made in 8 locations through Dec 7, 2011. Multi-year and multi-location is a better predictor of future performance. Do not use these or any other data from a limited number of trials as a significant factor in product selection. Product responses are variable and subject to a variety of environmental, disease, and pest pressures. Individual results may vary.

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