

Agriculture Agri-Food Canada Corn Variety Evaluation

Project duration May 2018 – November 2018

Objectives To develop and release early maturing cold tolerant corn inbreds with emphasis on the 1800-2000 CHU market.

Collaborators Lana Reid Ph.D – AAFC Research Scientist Ottawa Research and Development Centre
Manitoba Corn Growers Association

Results

This project is part of a long-term, multi-site study led by Lana Reid. Research findings will be made available by Lana Reid and team.

Background

The objective will be achieved using conventional corn breeding methodology enhanced by double haploid inbred production and specialized screening techniques for cold tolerance and disease resistance. The trial is being conducted at sites across five Canadian provinces. The anticipated impact of developing earlier maturing, cold tolerant corn will expand the acreage of corn production in Canada.

Project findings

These data were generated for AAFC; however, due to intellectual property issues pertaining to Plant Breeders' Rights, results for individual lines are not provided in this report. For more information on this variety trial

Materials & Methods

Experimental Design Random Complete Block Design

Entries 30 varieties

Seeding May 25

Harvest Nov 15

Fertility 163lb/ac actual N (46-0-0); 50lb/ac actual Phos (11-52-0); 20lb/ac actual Sulfur

In Crop Weed Control Roundup applied May 29
Option 2.25 applied June 8, 2018

Fungicide: None applied

Data collected **Date collected**

Stalk and Stalk Lodging -

Yield Nov 7

Moisture Nov 7

Table 1: Spring 2018 Soil Test

	Available	Needed
N	20 lb/ac	200 lb/ac
P	24 ppm	50 ppm
K	-	-
S	14lb/ac	50lb/ac