

Corn Variety Evaluation

Project duration: May 2019 – November 2019

Objectives: To develop and release early maturing cold tolerant corn inbreds.

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 17, 2019
Harvest	November 01, 2019

Data collected	Date collected
% Emergence	Jun 03
Tasseling Date	Jul 02 – Aug 01
Silking Date	Jul 08 – Aug 19
Ear Formation	Jul 29 – Aug 26
Heights	Jul 30
Lodging	November 01, 2019
Yield	November 01, 2019
Moisture	November 01, 2019

Agronomic info:

Standard recommended agronomic protocols were adopted for each crop. Fertilizers were applied with respect to soil test results. Herbicide were applied, when required.