

## Parkland Coop Wheat Variety Evaluation

**Project duration:** May 2020 – August 2020

**Objectives:** To evaluate spring wheat varieties for the Parkland Coop

**Collaborators:** Dean Spanner – Coordinator, University of Alberta Research Station  
Klaus Strenzke – Research Technician, University of Alberta Research Station

### Background

The Parkland Cooperative wheat trial is conducted across the Prairies as a resource for wheat breeders to generate data in support of registration of new Canada Western Red Spring varieties. Additional samples taken to test for wheat midge were sent away at the end of July.

### Results

These data were generated for the Parkland Coop; however, due to intellectual property issues pertaining to Plant Breeders' Rights, results for individual lines are not provided in this report. Table 1 provides the entries in this test. For more information on the Coop trial, contact Klaus Strenzke, University of Alberta.

### Materials and methods

Experimental Design: Rectangular Lattice  
Entries: 30 varieties  
Seeding: May 11  
Harvest: Sep 1

Table 1: Varieties included in trial at Roblin, 2020

AAC Brandon	PT5003	PT660	PT4001	PT799
AC Carberry	PT5005	PT661	PT4002	PT7000
Glenn	PT793	PT795	PT5009	PT7001
Parata	PT496	PT258	PT5010	PT7002
PT789	PT5007	PT499	PT5011	PT7003
PT495	PT5008	PT4000	PT5012	PT7004

### Agronomic information

Previous year's crop: Barley Silage  
Soil Type: Erickson Loam Clay  
Landscape: Rolling with trees to the east  
Seedbed preparation: Heavy harrowed

Data collected                      Date collected  
Maturity:                              Aug 25  
Height:                                Aug 5  
Lodging:                               Sep 1  
Yield:                                  Sep 1  
Moisture:                              Sep 1

Table 2: 2020 Fertility Information

	Available	Added	Type
N	70 lb/ac	119 lb/ac	46-0-0
P	41 ppm	15 lb/ac	11-56-0-0
K	545 ppm	-	-

Table 3: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 19	Heat	28.0 g/ac
		Round-up	0.64 L/ac
In-crop	Jun 22	PrestigeXC-A	0.17 L/ac
Desiccation	Aug 25	RoundUp	0.64 L/ac
		Heat	20.0 g/ac
		Merge	0.3 L/ac