

Parkland Coop Wheat Variety Evaluation

Project duration: May 2019 – August 2019

Objectives: To evaluate wheat varieties for the Parkland Coop

Collaborators: Dean Spanner – Coordinator, University of Alberta Research Station
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Background

In 2019, the Parkland Cooperative wheat trial was conducted locations across western Canada as a resource for wheat breeders to generate data in support of registration of new Canada Western Red Spring varieties. Additional samples were taken to test for wheat midge at the end of July.

Materials & Methods

Experimental Design: Rectangular Lattice

Entries: 30 varieties

Seeding: May 14

Harvest: Sept 19

Table 1: Varieties included in trial at Roblin, 2019

AC Splendor	PT5002	PT5005	PT498	PT661
Carberry	PT789	PT658	PT5006	PT794
Glenn	PT256	PT793	PT5007	PT795
Parata	PT493	PT257	PT5008	PT796
PT491	PT495	PT496	PT659	PT797
PT492	PT5003	PT497	PT660	PT798

Agronomic information

Previous year's crop: Oats

Soil Type: Erickson Loam Clay

Landscape: Rolling with trees to the east

Seedbed preparation: Heavy harrowed twice

Data collected

Date collected

Maturity: Aug 19 – Sept 1

Height: July 17

Lodging: Sept 19

Yield: Sept 19

Moisture: Sept 19

Table 2: Spring 2019 Soil Test

Available	Needed
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N	71 lb/ac	118 lb/ac
P	33 ppm	15 lb/ac
K	272 ppm	-

Table 3: Added N and P

Blend	Blend (actual lbs/ac)	Actual lbs N	Actual lbs P
46-0-0	97.6	44.88	0
11-52-0-0	19.23	2.12	10
Total	-	47	10

N side-banded; P banded with seed

Table 4: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 19	Heat	28.4 g/ac
		Round-up	0.64 L/ac
In-crop	June 12	Prestige SC-B	0.8 L/ac
		Curtail M	0.5 L/ac
		Puma	0.413L/ac
Desiccation	Aug 17	RoundUp	0.94 L/ac

Project findings

The data were generated for the Parkland Coop. Due to intellectual property issues pertaining to Plant Breeders' Rights, results for individual lines are not provided in this report. For more information on the Coop trial, contact Klaus Strenzke, University of Alberta, strenzke[at]ualberta.ca.