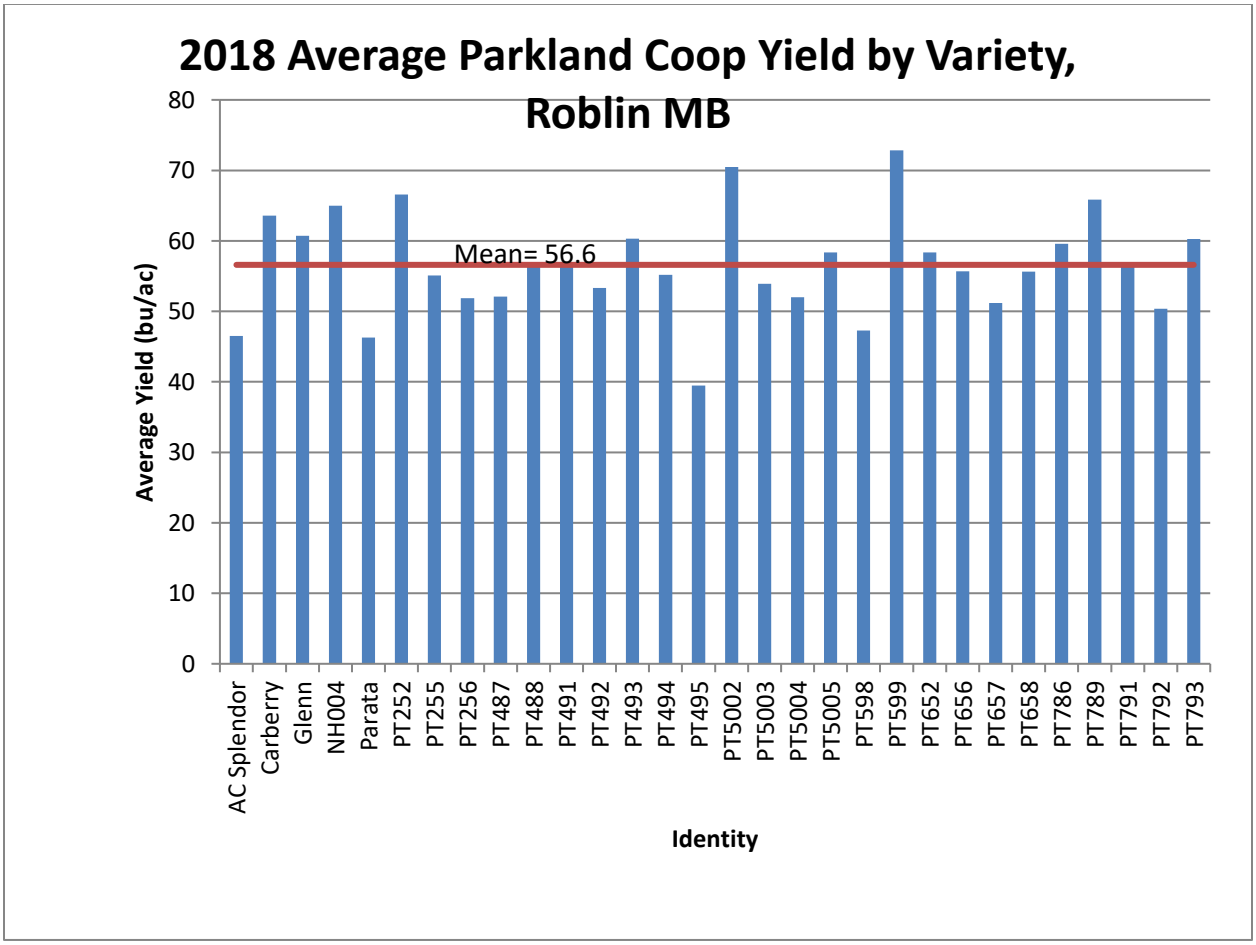
Parkland Coop Wheat Variety Evaluation

Project duration May 2018 – August 2018
Objectives To evaluate wheat varieties for the Parkland Coop
Collaborators: Dean Spanner – Coordinator, University of Alberta Research Station
Klaus Strenzke – Research Technician, University of Alberta Research Station

Results

Figure1: 2018 Average Parkland wheat yield by variety



Project findings

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. For more information on the Coop trial, contact Klaus Strenzke, University of Alberta.

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.

Materials & Methods

Experimental Design	Rectangular Lattice
Entries	30 varieties
Seeding	May 15
Harvest	Aug 23
Varieties	See Table 1

Table 1: Varieties included in trial at Roblin, 2018

AC Splendor	PT488	PT492	PT255	PT5004
Carberry	PT598	PT5002	PT256	PT5005
Glenn	PT599	PT656	PT493	PT791
Parata	PT652	PT789	PT494	PT792
PT252	PT786	PT657	PT495	PT793
PT487	PT491	PT658	PT5003	NH004

Data collected	**Date collected**
Emergence date	May 25
Heading	Jun 30 to Jul 6
Maturity	Aug 17
Height	Aug 2
Lodging	Aug 23
Yield	Aug 23
Moisture	Aug 23

Agronomic info

Previous year's crop	Oat barley silage
Soil Type	Erickson Loam Clay
Landscape	Rolling with trees to the east
Seedbed preparation	No-till due to moisture concerns; direct-seeded into stubble

Table 2: Spring 2018 Soil Test

	Available	Needed for Barley	Needed for Wheat
N	54 lb/ac	80 lb/ac	96 lb/ac

P	13 ppm	10 lb/ac	10 lb/ac
K	228 ppm		0 lb/ac
S	118 lb/ac		0 lb/ac

Table 3: Added N and P

Blend	Blend (actual lbs/ac)	Actual lbs N	Actual lbs P
46-0-0	204.1	96	0
11-52-0-0	19.23	2.12	10
Total	-	98.12	10

N banded with seed; P side-banded

Table 4: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 19	Heat	28.4g/ac
		Round-up	0.67L/ac
In-crop	July 12	Prestige XCA	0.13 L/ac
		Axial BIA	0.48 L/ac
Desiccation	Aug 17	RoundUp	0.94 L/ac