

Parkland Coop Variety Evaluation

Project duration - May 2017 – October 2017

Objectives - To evaluate wheat varieties for the Parkland Coop

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Results

The average grain yield by variety and the mean yield for all varieties are provided in Figure 1.

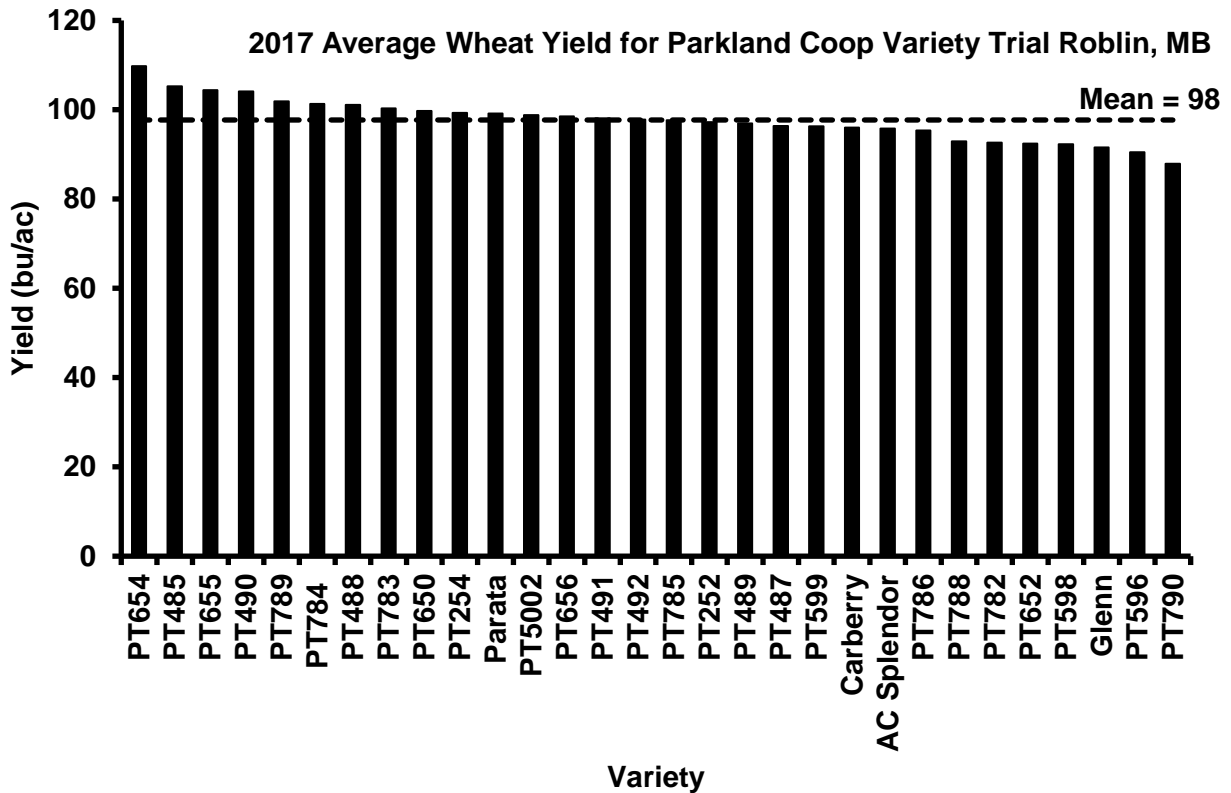


Figure 1. Average wheat yield for Parkland Coop variety trial, Roblin, 2017

Project findings

Good early-season soil moisture provided excellent growing conditions for wheat. Dry growing conditions resulted in relatively low incidence of disease, and appeared to hasten maturity. The yield results for Roblin 2017 represent only one site year, and should not be used to draw broader conclusions. For more information, contact Klaus Strenzke, [strenzke\[at\]ualberta.ca](mailto:strenzke[at]ualberta.ca).

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.

Materials & Methods

Experimental Design: Rectangular Lattice
Entries: 30 varieties
Seeding: May 17
Harvest: September 4

Table 1: Varieties included in trial at Roblin, 2017

AC Splendor	Carberry	Glenn	Parata	PT485
PT596	PT650	PT782	PT783	PT784
PT785	PT252	PT487	PT488	PT489
PT598	PT599	PT652	PT786	PT254
PT490	PT491	PT492	PT5002	PT654
PT655	PT656	PT788	PT789	PT790

Data collected and date collected

Emergence date: May 26
Heading: July 13
Maturity: Aug 26
Height: Aug 21
Lodging: Sept 4
Yield
Moisture

Agronomic info

Previous year's crop: Oat barley silage
Soil Type: Erickson Loam Clay
Landscape: Rolling with trees to the east
Seedbed preparation: Heavy harrowed twice

Table 2: Spring 2017 Soil Test

	Available	Needed
N	86 lb/ac	216 lb/ac
P	10 ppm	10 lb/ac
K	183 ppm	0
S	184 lb/ac	0

Table 3: Added N and P

Blend	Blend (actual lbs/ac)	Actual lbs N	Actual lbs P
46-0-0	278.01	127.88	0
11-52-0-0	19.23	2.12	10
Total	-	130	

N side-banded; P seed placed

Table 4: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 18	RoundUp WeatherMax	0.51 L/ac
In-crop	June 27	Prestige XCA	0.26 L/ac
	June 27	Axial BIA	0.96 L/ac
Desiccation	Aug 24	RoundUp	0.67 L/ac