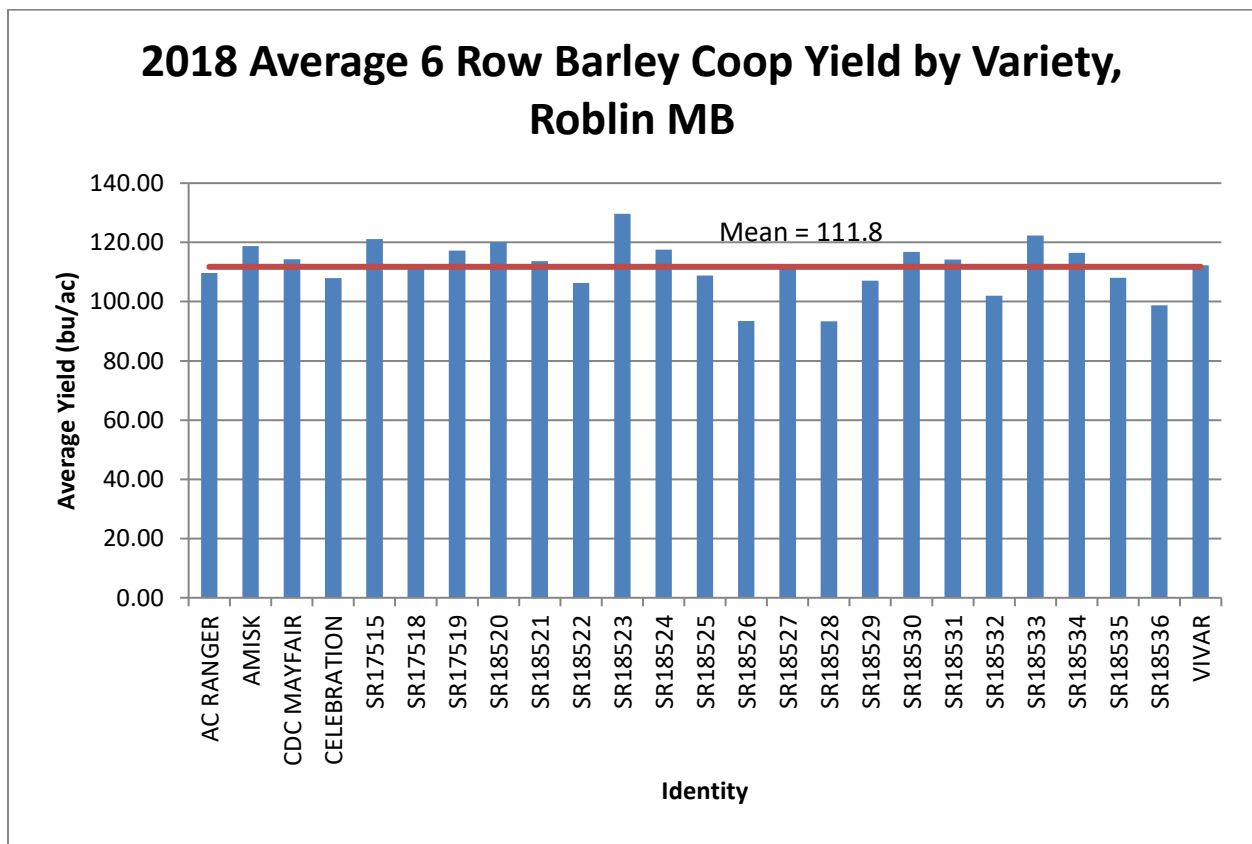


# Western 6-Row Barley Cooperative Variety Evaluation

**Project duration** May 2018 – August 2018  
**Objectives** To evaluate different lines of six-row barley for malting and feed  
**Collaborators** Dr. Joseph Nyachiro – Barley breeder Alberta Agriculture and Rural Development  
Donna Westling – Research Technician Field Crop Development Centre Barley Program

## Results

Figure 1: 2018 Average 6 Row Barley Coop yield by variety



## Background

AAFC Brandon’s barley breeding effort is aimed at developing new varieties of six-row malting barley with improved disease resistance and agronomic performance, combined with enhanced quality traits to expand market opportunities.

## Materials & Methods

Experimental Design Random Complete Block Design  
Entries 18 entries

Seeding                      May 30  
 Harvest                      Aug 24  
 Varieties                      See Table 1

Table 1: Varieties included in trial at Roblin 2018

SR18521	SR18525	SR18528	SR18522
AMISK	SR17518	CDC MAYFAIR	VIVAR
SR18534	SR18532	SR18529	SR18526
SR18527	SR18531	SR18536	SR18524
SR17519	SR17515	SR18535	SR18520
CELEBRATION	SR18530	SR18533	AC RANGER
SR18523			

**Data collected                      Date collected**

Heading                      Jul 16-18  
 Flowering                      Jul 22-27  
 Height                      Aug 2  
 Rust Rating                      Jul 31  
 Lodging                      Aug 24  
 Moisture                      Aug 29  
 Yield                      Aug 29  
 % plumps/thins                      Sept 10-13

**Agronomic info**

Previous 2 years 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	
N	54 lb/ac
P	13 ppm
K	228 ppm
S	118 lb/ac

Table 3: Added N and P

Blend	Blend (actual lbs/ac)	Actual lbs N	Actual lbs P
46-0-0	169.31	80	0
11-52-0-0	19.23	2.12	10
Total	-	82.12	10

*P banded with seed; N side-banded*

Table 4: Pesticide Application

Stage	Date	Product	Rate
Pre-emerge	May 19	RoundUp	0.67 L/ac
		Heat	2.84 g/ac
In-crop	Jun 8	RoundUp	0.67 L/ac
		CurtailM	0.81 L/ac
		PrestigeXC	0.13L/ac
Desiccation	Aug 17	Axial	0.48L/ac
		Roundup	0.94 L/ac