

Saskatchewan Pulse Growers Pea Variety Trial

Project duration: May 2021 – October 2021

Objectives: To evaluate pea entries for the Saskatchewan Pulse Growers (SPG)

Collaborators: Laurie Friesen, SPG

Background

(Adapted from the [SPG website](#)): The SPG works to boost yield of established pulse crops, develop new crops, connect with growers, expand the utilization of pulse crops, and decrease barriers to market access. The projects further on-farm yield gains through the identification and enhancement of genetic yield potential.

Results

The average yield for pea entries is shown in Figure 1. The average height for entries is shown in Figure 2. Numbered, non-registered varieties are provided for tracking purposes only. The results are for one site-year only, and should be interpreted with caution. Consult a seed guide for multi-site-year data for available varieties.

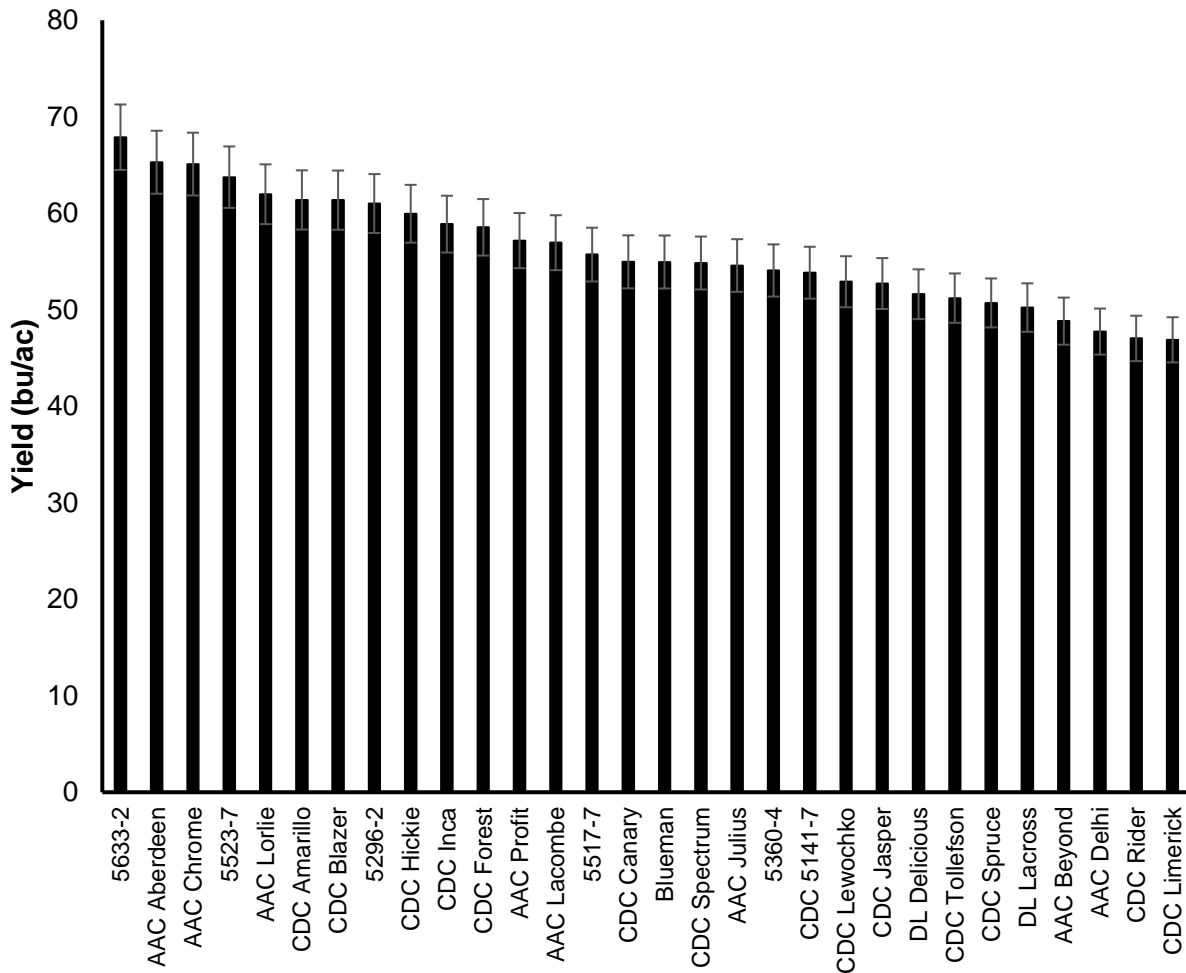


Figure 1: Average yield for pea entries

Table 1: Comparison of yield means and statistical difference for pea entries (varieties connected by the same letter are statistically significant)

Variety	Statistical significance for yield				Yield (bu/ac)
1363484	A				67.88
AAC Aberdeen	A	B			65.29
AAC Chrome	A	B			65.10
1323456	A	B			63.74
AAC Lorie	A	B	C		61.97
CDC Amarillo	A	B	C	D	61.38
CDC Blazer	A	B	C	D	61.36
1240397	A	B	C	D	61.01
DL Lacross	A	B	C	D	60.55
CDC Hickie	A	B	C	D	59.95
CDC Inca	A	B	C	D	58.87
CDC Forest	A	B	C	D	58.54
AAC Profit	A	B	C	D	57.16
AAC Lacombe	A	B	C	D	56.95
1321265	A	B	C	D	55.72
CDC Canary	A	B	C	D	54.97
Blueman	A	B	C	D	54.95
AAC Julius	A	B	C	D	54.58
CDC Spectrum	A	B	C	D	54.37
CDC Rider	A	B	C	D	54.18
1263832	A	B	C	D	54.07
CDC 5141-7	A	B	C	D	53.84
CDC Tollefson	A	B	C	D	53.14
CDC Lewochko		B	C	D	52.90
CDC Jasper		B	C	D	52.72
CDC Spruce		B	C	D	51.77
DL Delicious		B	C	D	50.97
AAC Beyond			C	D	48.82
AAC Delhi			C	D	47.74
CDC Limerick				D	46.88
LSD	14.80				
% CV	16.07				

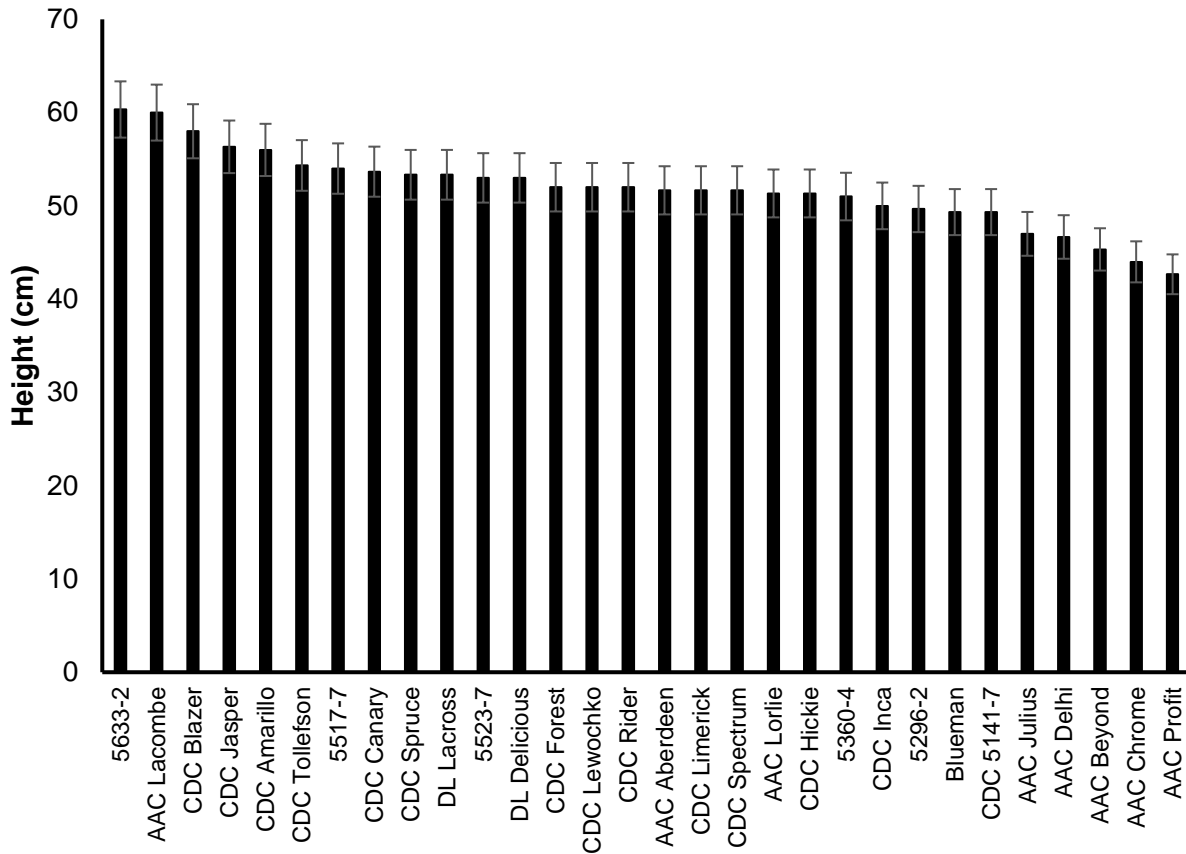


Figure 2: Plant heights for pea entries

Materials and methods

Experimental Design: Random Complete Block
 Entries: 30 entries; 3 replications
 Seeding: May 4
 Harvest: Aug 17

Table 1 (Long Season): Varieties included in trial

CDC Amarillo	AAC Chrome	CDC Inca	5360-4	CDC Limerick
5296-2	AAC Julius	CDC Lewochko	5523-7	AAC Lorlie
5517-7	AAC Profit	CDC Spectrum	CDC Forest	CDC Blazer
5633-2	CDC 5141-7	CDC Tollefson	CDC Rider	CDC Jasper
AAC Aberdeen	CDC Canary	AAC Delhi	CDC Spruce	DL Delicious
AAC Beyond	CDC Hickie	AAC Lacombe	Blueman	DL Lacross

Data collected: Date collected
 % Plant Stand: Jun 2
 Yield: Aug 17
 Moisture: Aug 17

Agronomic info

Previous year's crop: Oat Silage
Soil Type: Erickson Clay Loam
Landscape: Rolling with trees to the east
Seedbed preparation: Vertical tilled

Table 2: Spring 2021 Soil Test

	Available	Added	Type
N	151 lb/ac	-	-
P	47 ppm	10 lb/ac	11-52-0-0
K	743 ppm	-	-

Inoculant added with seed; P banded with seed

Table 3: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 10	Authority	118 ml/ac
In-crop	Jun 14	UAN 28%	810 ml/ac
		Viper	400 ml/ac