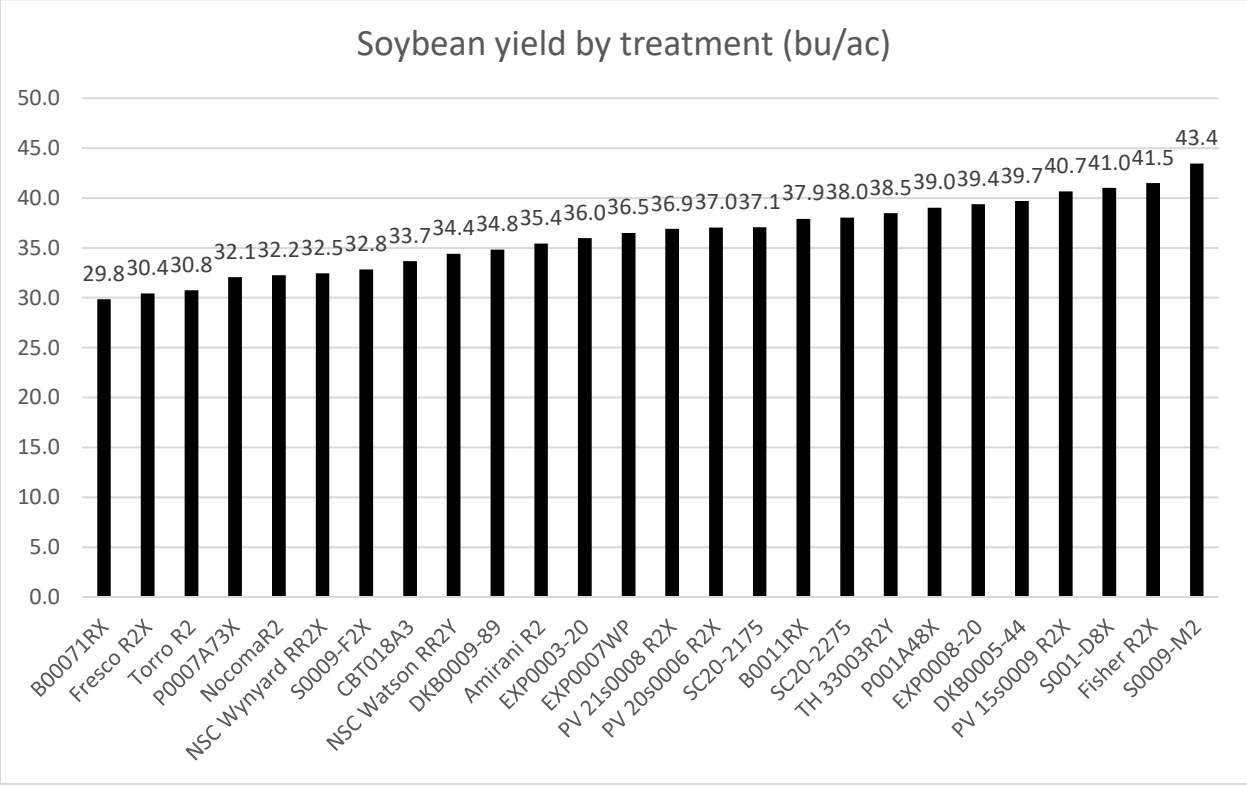
Saskatchewan Pulse Growers Soy Variety Evaluation

Project duration: May 2020 – October 2020
Objectives: To evaluate early soybean entries for the Saskatchewan Pulse Growers (SPG)
Collaborators: Laurie Friesen, SPG

Background
(Adapted from the SPG website): Soybeans are photosensitive and latitude greatly affects day length. For this reason, varieties are bred for specific north-south ranges of adaptation, typically in a range of 150 to 250 kilometres. Growing a variety north of its maturity band may delay maturity and it will be at a great risk of not reaching full maturity prior to frost. The test examines some of the earliest (i.e., most northern-adapted) glyphosate-tolerant soybean lines.

Results
Average soybean yield for entries are shown in Table 1. Numbered entries are included for tracking purposes.

Table 1: Soybean yield by treatment (bu/ac)



Materials and methods
Experimental Design: Rectangular lattice
Entries: 28 entries; 3 replications
Seeding: May 21
Harvest: Oct 7

Table 2: Varieties included in trial

NSC Watson RR2Y	PV 15s0009 R2X	NocomaR2	S001-D8X	SC20-2175
DKB0009-89	EXP0007WP	PV 20s0006 R2X	Fresco R2X	PV 21s0008 R2X
B00071RX	NSC Wynyard RR2X	TH 33003R2Y	EXP0003-20	-
EXP0008-20	SC20-2275	Fisher R2X	DKB0005-44	-
S0009-F2X	CBT018A3	S0009-M2	P0007A73X	-
B0011RX	P001A48X	Amirani R2	Torro R2	-

Data collected	Date collected
% Plant Stand:	Jun 16
Maturity:	Sep 7
Yield:	Oct 25-26
Moisture:	Oct 25-26

Agronomic info

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

Table 3: Spring 2020 Soil Test

	Available	Added	Type
N	61 lb/ac	-	-
P	47 ppm	10 lb/ac	11-52-0-0
K	393 ppm	-	-

Inoculant added with seed; P banded with seed

Table 3: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 19	RoundUp	0.64 L/ac
		Heat	28.0 g/ac
In-crop	Jul 22	UAN 28%	0.8 L/ac
		Viper	0.4 L/ac