

Agriculture Agri-Food Canada Conventional Soy Protein Variety Evaluation

Project duration	May 2018 – October 2018
Objectives	The project tests 20 varieties of conventional soybean as part of a broader project examining protein differences between eastern and western Canada sites
Collaborators	Elroy Cober – Research Scientist, soybean breeding and genetics, AAFC Kirsten Slusarenko – Soybean breeding AAFC

Results

This project is part of a long-term 5-year multi-site study across Canada, led by Elroy Cober. Research findings will be made available by Elroy Cober and team.

Background

Roblin is one of many sites across Canada taking part in this project to determine soybean protein content differences between eastern and western Canadian growing sites.

Materials & Methods

Experimental Design	Rectangular lattice
Entries	24 entries
Seeding	May 22
Harvest	Oct 15

Data collected	Date collected
Emergence	Jun 2-5
Flowering	Jul 18-24
Visual Rating	Jun 25
Heights	Aug 2
Maturity	Sept 5-7
Lodging	Oct 15
Yield	Oct 18
Moisture	Oct 18

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	28.01	15	0
11-52-0-0	19.23	2.12	10
Total	-	17.12	10

N side-banded; P Banded with seed

Table 4: Pesticide Application

Crop stage	Date	Product	Rate
Pre-emerge	May 18	RoundUp	0.67 L/ac
		Heat	28.4g/ac
In-crop	Jul 13	Centurion	0.15 L/ac
		Basagran	0.91L/ac
Desiccation	Sept 14	Reglone	0.175 L/ac