

RR Soybean Adaptation Trials

Project duration	May 2018 to September 2018
Objectives	Evaluate soybean variety performance & adaptation to the Carberry and Portage la Prairie regions of the Central plains.
Collaborators	Manitoba Pulse & Soybean Growers (MPSG) Manitoba Crop Variety Evaluation Team (MCVET)

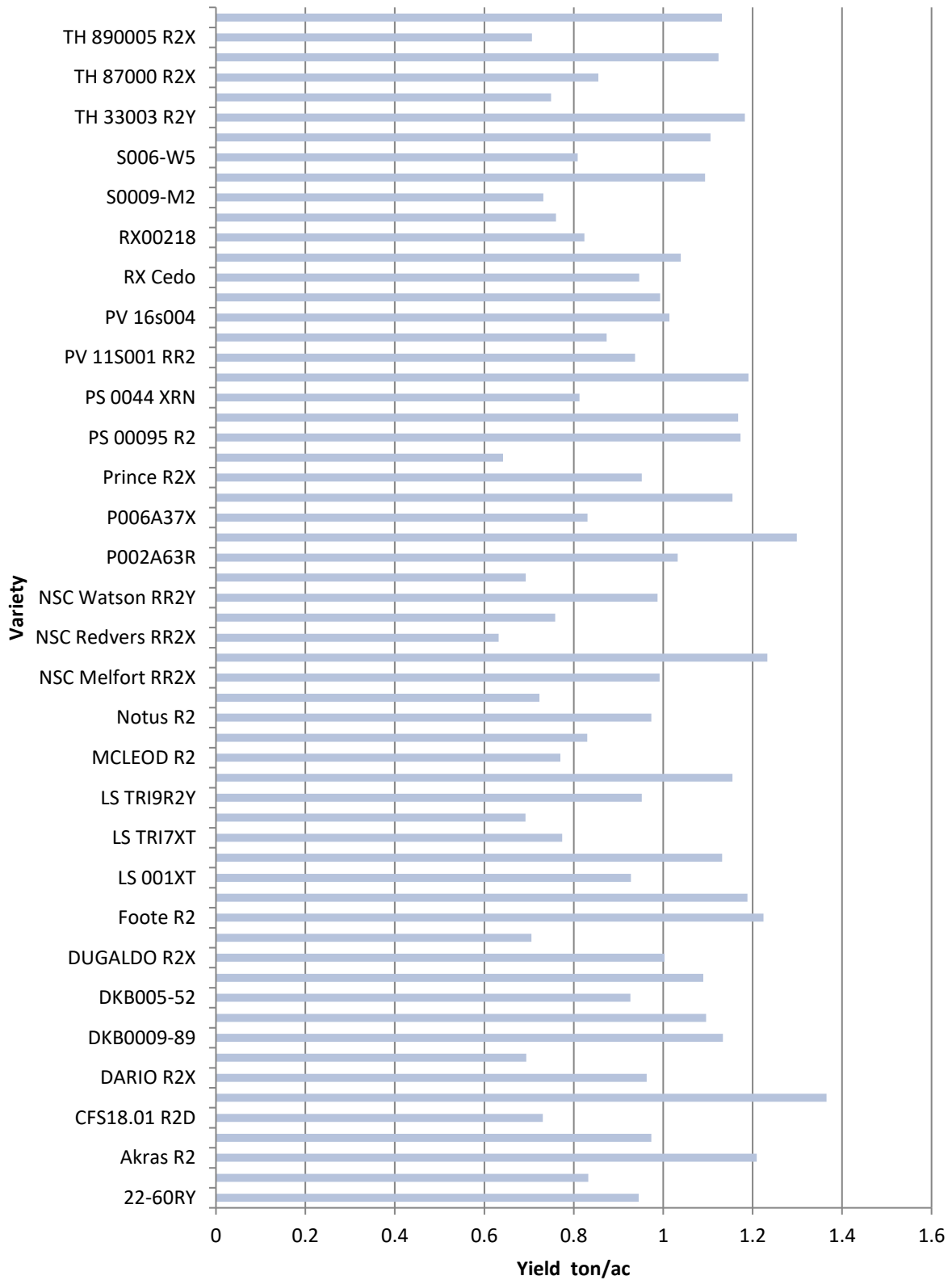
Results 2018

As new varieties are added each year assuming they are superior to previous lines is not always valid; especially if the said lines have not been tested intensively within the region of interest. Furthermore, even if a variety has been previously tested at the location of interest that testing will always be limited to the environmental (growing conditions) parameters of that period, which can be much different from the future testing period. Therefore, the best estimate of future performance is the examination of performance over as many years of data as possible (or even adjacent locations). This permits an understanding of sustained performance. Varieties that are consistently among the top performers across multiple years will most likely remain top performers in the near future, with the duration depending on the actual annual yield increase due to genetic improvement. For example, two varieties that appear to be stable performers from the short season category in Carberry include PS 0035 NR2 & 23-60RY with Lono R2 demonstrating consistent performance for the mid-season varieties.

For more custom comparisons of soybeans and other crops in Manitoba visit www.seedinteractive.ca.

Figure 1: RoundUp Ready soybean varieties and yield performance at Carberry in 2018.

RoundUp Ready Soybeans Average Yield



Background

Variety trials for all of Manitoba's major crops are conducted across the crop growing regions of Manitoba every year by the Manitoba Crop Variety Evaluation Team (MCVET). This performance data, along with variety characteristic information, is summarized in "SEED MANITOBA" and online at www.seedinteractive.ca. Both formats provide long term yield data as well as annual yield comparisons at various locations.

Carberry Materials & Methods

Experimental Design	Randomized complete block design with 3 replicates
Seeding Date	May 22, 2018
Harvest Date	October 11, 2018
Fertility	40lbs/ac actual Phos (11-52-0); 120 ppm K; 20 lb/ac actual Sulfur 20-0-0-24
In Crop Weed Control	Roundup Applied June 13, 2018
Fungicide	None applied