SOYBEANS
THAT
GENERATE
GROWTH

Prograin®

A world of Soybean

2017 Seed Guide

Western Canada

Your profitability is our top priority

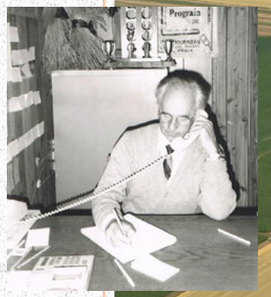
Prograin®

Developing soybean varieties that generate the most profitability for growers is our number one priority. We've worked hard developing new early genetics that will meet your needs and exceed your expectations.

Our partnership with Quarry Seed is also a key success factor in our expansion in Western Canada. We are all driven by innovation and growers that put their trust in our brand will have access to the most advanced soybeans we have to offer.

— Alain Létourneau, President CEO

First row : Clément Létourneau, Marie-Claire Bourgeois, André Létourneau, Claude Létourneau
Second row : Alain Létourneau, P.Marc Ham



Clément Létourneau, Founder, 1981

Alain Létourneau, CEO and owner of Prograin

Prograin

Who we are

Founded in 1980 by an innovative family, Prograin has planted the idea among producers to cultivate soybeans with its seeds specially developed in the province of Quebec to satisfy the demands of the northen climate.

Prograin is the largest private added-value soybean company in Canada. The key differentiation is the continuous development and improvement of early-maturing soybean varieties in our leading-edge research center, adapted to climatic conditions in early-maturing season group (groups 000 to 1).

Our ultimate goal is to offer growers all around Canada the best varieties and genetics to maximise their profitability.

History

— **1980**
Company founded

— **1986**
Creation of research program

— **1987**
First exportation of soybean food grade to Europe and Japan.

— **1995**
First seed company in Canada to develop a system for pre-inoculated soybean seeds.

— **2001 to 2007**
Increasement of soybean storage at the facility, addition of a second cleaning line and construction of a new warehouse.

— **2011**
Construction of a new R&D Center with two advanced technology laboratories.

— **2013**
Construction of an ultramodern and performing seed treatment facility.

— **2016**
Construction of a second growth chamber enabling us to breed soybean effectively and efficiently all year round.

Research is the heart of our business

Relying on a team of experts in genetic improvement, Prograin is ready and determined to develop the best genetics in early-maturing soybeans.

Growing chambers enable us not only to breed soybeans all year round but gives our research team an even bigger chance of success which ultimately gives us access to new varieties quicker.

With more than 65,000 lines of new products observed and analysed every year in Prograin's backyard, Prograin is in the driver's seat when it come to selecting the best genetics for the growers all accross Canada.

Prograin's R&D combine

Growing chamber

Prograin's greenhouse

Our technologically advanced soybeans

Are developped, grown, analysed and selected with strict criterias.

Prograin evaluates tens of thousands of soybean varieties every year to develop new cultivars with desirable traits.

This contributes to the development, not only of the best varieties for the growers, but also to satisfy their specific requirements.

That's why Prograin has a molecular genetics laboratory with the same equipment comparable to the bigger multinational companies.

Molecular genetics

ROUNDUP READY 2 XTEND™ SOYBEANS

NEW IN 2017

ROUNDUP READY 2 XTEND SOYBEANS

CBZ814A1 R2X

2250 CHU (RM 000.8)

New Roundup Ready 2 Xtend™ variety that will be appreciated for its quick start in spring

Characteristics

- Very good yield potential for its maturity group
- Tall plant with aggressive development
- Stands out in minimum tillage
- Good bushing capacity and excellent vigour

Management pointers

- Best in 15" spacing or less
- Adapted to no-till

STANDABILITY	7
PLANT TYPE †	7
PLANT HEIGHT	8
SCLEROTINIA TOLERANCE	7
STABILITY - ADAPTABILITY	8
VIGOUR FOR NO-TILL	8
ADAPTABILITY TO 30"	6
IDC	8

† = Type of plant - Capacity to branch | N/A = not available | NR = not recommended

NEW IN 2017

ROUNDUP READY 2 XTEND SOYBEANS

Domingo R2X

2525 CHU (RM 00.8)

The Roundup Ready 2 Xtend™ variety that performs consistently in different environments

Characteristics

- Very good vigour at the start of the season and excellent standability
- Excellent yield potential
- Very good sclerotinia tolerance
- Good-looking plant with above-average height

Management pointers

- Performs well in all soil types
- Well adapted to 7" and 15" spacing

STANDABILITY	8
PLANT TYPE †	7
PLANT HEIGHT	8
SCLEROTINIA TOLERANCE	8
STABILITY - ADAPTABILITY	7
VIGOUR FOR NO-TILL	7
ADAPTABILITY TO 30"	7
IDC	7

genuity
ROUNDUP READY 2 YIELD® SOYBEANS

Performance
Simplicity
Dominant genetics

PROGRAIN'S DIVERSIFIED LINE OF GENUITY® ROUNDUP READY 2 YIELD® SOYBEANS INCLUDES VARIETIES THAT ARE KNOWN FOR THEIR RESISTANCE TO CERTAIN DISEASES, AS WELL AS THEIR STANDABILITY, CONSISTENCY AND VIGOUR.

GENUITY® ROUNDUP READY 2 YIELD® PROGRAIN SOYBEANS ARE A COMBINATION OF DOMINANT GENETIC TRAITS SELECTED THROUGH OUR RESEARCH PROGRAM AND WITH A RECOGNIZED WEED CONTROL TECHNOLOGY. THIS OPTIMAL COMBINATION OFFERS TO PRODUCERS THE OPTION OF CHOOSING A SOYBEAN VARIETY THAT COMBINES PERFORMANCE AND SIMPLICITY.

NEW IN 2017

genuity ROUNDUP READY 2 YIELD® SOYBEANS

Torro R2

GENRR2Y 2375 CHU (RM 000.8)

A very robust soybean that will meet your expectations

Characteristics

- Medium-sized plant with dark green foliage
- Excellent yield potential for its maturity
- Above-average standability
- Slender soybean type with narrow leaves

Management pointers

- Responds well to high population
- Better suited to planting in narrow rows

STANDABILITY	7
PLANT TYPE †	5
PLANT HEIGHT	8
SCLEROTINIA TOLERANCE	8
STABILITY - ADAPTABILITY	7
VIGOUR FOR NO-TILL	N/A
ADAPTABILITY TO 30"	4
IDC	9

NEW IN 2017

genuity ROUNDUP READY 2 YIELD® SOYBEANS

Kosmo R2

GENRR2Y 2450 CHU (RM 00.6)

The variety to choose to obtain good yield in early maturity areas

Characteristics

- Very good vigour at the beginning of the season, perfect for short season areas
- Good ability to branch for an early soybean variety
- Plant taller than the average with good standability
- Good flower fertility that ensures good yields

Management pointers

- Offers better results in narrow rows

STANDABILITY	7
PLANT TYPE †	6
PLANT HEIGHT	8
SCLEROTINIA TOLERANCE	8
STABILITY - ADAPTABILITY	8
VIGOUR FOR NO-TILL	N/A
ADAPTABILITY TO 30"	5
IDC	8

† = Type of plant - Capacity to branch | N/A = not available | NR = not recommended

Roundup Ready 2 Xtend™ varieties

CHU (RM)	2250 (000.8)		2575 (00.8)		
VARIETY	CBZ814A1 R2X		DOMINGO R2X		
Row spacing (inches)	7	15	7	15	30
Number of seeds/kg (Min / Max)	5000 5400		5300 5500		
Number of seeds planted (x1000/acre)	210	180	210	170	n/r
Seeding rate (bags/acre)	1.5	1.3	1.5	1.2	n/r
Tolerance to Phytophtora	n/d		n/d		
Pubescence colour	Light brown		Light brown		
Hilum color	Imperfect yellow		Imperfect yellow		
Protein %	n/d		n/d		

Genuity® Roundup Ready 2 Yield® varieties

CHU (RM)	2375 (000.8)		2450 (00.6)	
VARIETY	TORRO R2		KOSMO R2	
Row spacing (inches)	7	22	7	22
Number of seeds/kg (Min / Max)	5700 6100		4900 5300	
Number of seeds planted (x1000/acre)	220	180	210	170
Seeding rate (bags/acre)	1.5	1.3	1.5	1.2
Tolerance to Phytophtora	n/d		n/d	
Pubescence colour	Tawny		Tawny	
Hilum color	Black		Imperfect yellow	
Protein %	n/d		n/d	

Choosing the Right Population

A Matter That Affects Profitability per Acre

These past few years, Prograin has put a good deal of thought into the question of what constitutes the right target population not only for optimal yield but also best profitability per acre.

The goal was to demonstrate whether an inadequate population could affect yield. After gathering and interpreting the data, we can assert that this is a decision that growers should never take lightly.

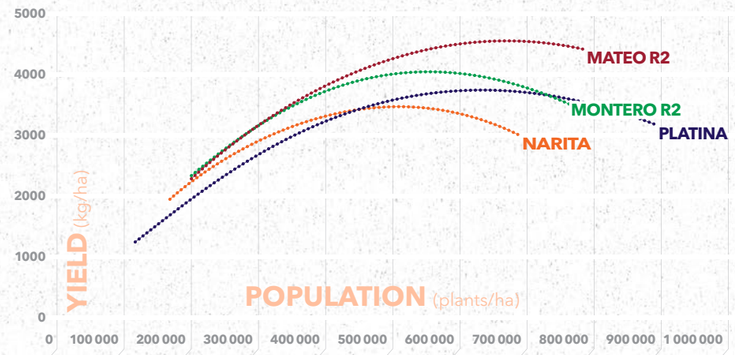
At Prograin, we think that the sole objective of an optimal population is to maximize yield. Yield is a complex concept, but simply put, an adequate population will affect yield if it is able to accomplish the following:

1. **Close rows quickly**
2. **Favour maximum sunlight interception**
3. **Compete more effectively with weed growth**

Here are the results of our trials:

—The morphology of recently introduced cultivars is not the only factor that influences optimal plant population/seeding rate.
—In early maturing zones, maximum yield is achieved with higher populations.
—There does not appear to be a link between the cultivar's time to maturity and the optimal plant population/seeding rate.
—Optimal plant population/seeding rate is influenced by the cultivar itself and will differ from one cultivar to the next.

It is important to discuss target plant population with your representative in order to optimize the profitability per acre of your soybean fields.



EFFECT OF POPULATION ON THE YIELD OF DIFFERENT VARIETIES
(AVERAGING 3 YEARS PER VARIETY)

As the graph shows, the maximum yield for each variety is achieved with a different population.

Prograin®

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SOYBEANS THAT GENERATE GROWTH

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The agronomic content of 2017 Seed Guide has been revised by agronomists Maxime Gratton, Philippe Lemaître, Miguel Provost and Marc Saumure.

prograin.ca

Certified seeds are synonymous with success.

There are many ways to succeed with certified seeds.

- Access to new and improved varieties
- Better utilization of farm inputs
- Quality assurance
- Access to new markets
- Support for the development of future varieties

It all starts with certified seeds.

Certified Seed

2017 Seed Guide

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