## Soybeans That Generate Growth

2018 Western Canada Seed Guide



A world of Soybean

# Working together

## to bring the best there is in soybeans



Prograin and Quarry Seed are working hand in hand to offer you the best varieties for your fields. We are dedicated to providing the best genetics, technologies and trialing to our fellow Canadian growers. As Canadian companies, we are ideally positioned to know what is needed to maximize profitability on your farm.

When Prograin launches a variety, we have full confidence in the Quarry Seed team taking over the next steps of promotion and distribution. Working closely together is what will continue to make us stronger year after year. Our goal is simple, to continue to offer the best soybeans for Western Canada.



## **3 things you should know about our research program**

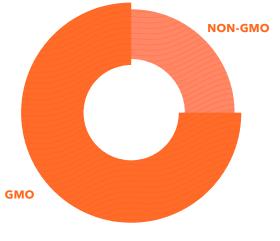
Our research program's main focus is the creation and observation of GMO varieties. In fact, 75% of the research team's efforts are geared towards offering Canadian farmers GMO varieties that will exceed performance expectations in their fields.

Prograin has been observing and evaluating its varieties in Western Canada for several years, but this year, we have gone a step further. We have extended our research program to Western Canada and are now selecting varieties directly in the region where these varieties are to be sold.

This allows us to select varieties that properly meet the challenges that Western Canadian farmers face.

We evaluate thousands of new varieties every year with our research program. This enables us to have access to new cultivars faster than our competitors. By having the biggest crossbreeding program in Canada, Prograin ensures that it controls its product portfolio. In the event the variety does not perform to our specifications, we are able to react and change quickly.





75% GMO and 25% NON-GMO



Growth chamber with LED lighting

# The ambition of constant innovation

Our all-new growth chamber was added to the facilities this year, with LED lighting technology that more closely replicates the sun's rays. The goal is to produce plants that look as if they are field grown.

Our researchers can work on multiple projects at the same time, to develop numerous agronomic features, introduce new technological platforms or propagate specific soybean features for human or animal consumption.

This enables year-round breeding efforts, allowing us to bring you new varieties more rapidly.

Sylvain Legay, assistant breeder











## PROGRAIN IS OFFERING YOU THE CHANCE TO ATTEND THE GRAND PRIX DE MONTREAL!

## ......

BE AMONG THE 8 LUCKY PRODUCERS WHO WILL GET TO SPEND 4 DAYS IN MONTRÉAL, ALL EXPENSES PAID, AND EXPERIENCE FORMULA 1 FEVER.

genuity

**ROUNDUP READY 2 YIELD** 

SOYBEANS

BUY SEED IN EITHER THE ROUNDUP READY 2 XTEND® OR GENUITY® ROUNDUP READY 2 YIELD® PRODUCT LINES AND RECEIVE 1 ENTRY FOR EVERY 100 UNITS OF SEED PURCHASED.

Get all of the contest rules and details on the prograin.ca/contest web page or from your local dealer.

## Leadingedge genetics

More flexibility for your weed control



**DYLANO R2X** 



Varieties developed and tested in our labs and research test plots to give you new options and better performance

This is what the Prograin Roundup Ready 2 Xtend<sup>®</sup> soybean line offers.

## Maximum yields in your fields



## **Dario R2X** 2275 CHU (RM 000.8)

#### New Roundup Ready 2 Xtend® variety that will be valued for its quick start in spring

Sclerotinia tolerance: 7	
Stability – adaptability: 8	
Vigour for no-till: 8	
Adaptability to 30": 6	
IDC: 8	



## **Dylano R2X** 2425 CHU (RM 00.4)

#### A new variety with good performance, well adapted to early-maturing zones.

Sclerotinia tolerance: 8	
Stability – adaptability:	8

Adaptability to 30": 7

IDC: 9



## **DUGALDO R2X**

2450 CHU (RM 00.6)

A brand new mid-season soybean that the Manitoba market has been waiting for!

Sclerotinia tolerance: 8	
Stability – adaptability: 8	
Vigour for no-till:7	
Adaptability to 30": 7	
IDC: 9	



### **Domingo R2X** 2500 CHU (RM 00.8)

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

#### Standability: 8

Sclerotinia tolerance: 8

Stability - adaptability: 7

#### Vigour for no-till: 7

Adaptability to 30": 8

IDC: 7

## **Characteristics**

- Very good yield potential for
- its maturity group
- · Among the earliest maturing varieties on the market, well adapted to short-season regions
- Outstanding in minimum tillage
- $\cdot\,$  Good bushing capacity and excellent vigour

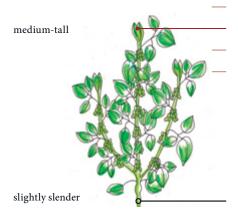
#### **Management pointers**

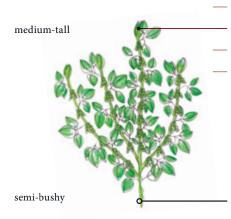
- Best with 15" spacing or less
- · Adapted to no-till

**Characteristics**  Very high yield potential · Unsurpassed standability in all growing conditions · Great white mold tolerance · Excellent pod clearance to make harvesting a breeze **Management pointers** 

· Adapted to all soil types

New





tall semi-bushy

## New

#### **Characteristics**

- · Great yield potential
- · Unsurpassed standability in
- all growing conditions

**Characteristics** 

- · Great white mold tolerance
- · Excellent plant adaptability to all row spacings

- Best adapted to 15" to 30" row spacing

Very good vigour at the start of the

· Good-looking plant with above-average height

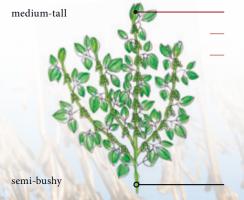
Well adapted to 7" and 15" spacing with good bushing capacity to fill a 30" row

season and excellent standability Excellent yield potential

· Very good sclerotinia tolerance

**Management pointers** 

• Performs well in all soil types



• Well adapted to 15" (or less) row spacing

### **Management pointers**

- · Adapted to all soil types

## Performance and simplicity

Varieties proven in the fields

# TORRO R2

Prograin me

ROUNDUP READY 2 YIELD<sup>®</sup> SOYBEANS

> Prograin Genuity<sup>®</sup> Roundup Ready 2 Yield<sup>®</sup> soybean seeds are the result of a combination of high-tech features that produce a yield that meets your objectives.

## Reliable and remarkable performances



## **GENRR2Y** 2300 CHU (RM 00.1) Torro R2

A very robust soybean that will provide exceptional yield

tall



genuitu ROUNDUP READY 2 YIELD Soybeans

## **Ко**ѕмо **R**2

Standability: 7

Sclerotinia tolerance: 8

Stability - adaptability: 7

Vigour for no-till: 8

Adaptability to 30": 4

IDC: 9

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

**GENRR2Y** 2400 CHU (RM 00.3)

Standability: 7 Sclerotinia tolerance: 8 Stability - adaptability: 8 Vigour for no-till: 7 Adaptability to 30": 5 IDC: 8

#### **Characteristics**

**Characteristics** 

Above-average standability

Management pointers

Responds well to high population

• Medium-sized plant with dark green foliage

Excellent yield potential for its maturity

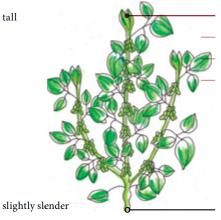
Slender soybean type with narrow leaves

• Better suited to planting in narrow rows

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

#### **Management pointers**

· Offers better results in narrow rows



## The right population: key to optimal profitability

Soybean cultivars do not all respond in the same way to different populations, that's why it's important to plant the recommended density of each variety. At Prograin Research Centre, we conduct rigorous population testing on our different varieties every year. The table below lists the recommended populations for 7", 14" and 30" row spacings in order to obtain an optimal yield.

With a targeted number of seeds/ac, you can determine the sowing rate in kg/ac using the number of seeds or the bag's weight as indicated on the seeds bag. Here is a sample calculation.

Data	Torro R2		Your variety	
	Row spacing:	22 in	Row spacing:	in
Target population by row spacing: see tables below	Target population:	180,000 seeds/ac	Target population:	seeds/ac
Grain size: indicated on the bag	Grain size:	5900 seeds/kg	Grain size:	seeds/k
Number of seeds per bag: see tables below	Number of seeds:	140,000/unit	Number of seeds:	140,000 /unit

## **Calculation of seeding rate**

Method #1	180,000 seeds/ac 140,000 seeds/unit = 1.29 unit/ac	seeds/ac =unit/ac
Method #2	180,000 seeds/ac 5900 seeds/kg = 30.5 kg/ac	kg/ac
<b>Method #3</b> Bag weight (by calculation or the number indicated on the bag):	140,000 seeds/unit 5900 seeds/kg = 23.73 kg/unit	kg/unit seeds/kg
	1.29 unit/ac <b>X</b> 23.73 kg/unit = 30.6 kg/ac or 30.6 kg/ac <b>X</b> 2.2 = 67.32 lb/acre	unit/ac Xkg/unit =kg/ackg/ac =lb/acre

## Roundup Ready 2 Xtend<sup>®</sup> varieties

GMO soybean, pages 6-7

VARIETY	CHU (RM)	SEEDS/KG (MIN/MAX)	ROW A (INCHES)	SEEDS Planted/ac	SEEDING RATE (BAGS/AC)	TOLERANCE TO Phytophtora	PUBESCENCE COLOUR	HILUM Color	PROTEIN %
DARIO R2X	2275 (000.8)	5000/5400	7 15	210,000 180,000	1.50 1.29	none	Brown	Brown	n/a
DYLANO R2X	2425 (00.4)	5300/5500	7 15	210,000 170,000	1.50 1.21	none	Brown	Brown	n/a
DUGALDO R2X	2450 (00.6)	5300/5900	7 15	210,000 170,000	1.50 1.21	none	Light brown	Black	n/a
DOMINGO R2X	2500 (00.8)	5300/5900	15 30	170,000 140,000	1.21 1.00	n/d	Light brown	Imperfect yellow	n/a

## Genuity<sup>®</sup> Roundup Ready 2 Yield<sup>®</sup> varieties

GMO soybean, pages 8-9

VARIETY	CHU (RM)	SEEDS/KG (MIN/MAX)	ROW △ (INCHES)	SEEDS Planted/ac	SEEDING Rate (Bags/ac)	TOLERANCE TO Phytophtora	PUBESCENCE COLOUR	HILUM Color	PROTEIN %
TORRO R2	2300 (00.1)	5700/6100	7 22	210,000 180,000	1.50 1.29	none	Tawny	Black	n/a
KOSMO R2	2400 (00.3)	4900/5300	7 22	210,000 170,000	1.50 1.21	none	Tawny	Imperfect yellow	n/a





## A new IP Program for Western Canada!



Prograin is proud to offer its IP program to Western Canadian producers. An incomparable opportunity to increase your profitability.

Many producers are already enjoying the benefits of this program. Here is how the Prograin IP program stands out:

-100% guaranteed crop buyback program.

-We offer a fixed variety premium all year long.

- -A production agreement that guarantees 100% buyback of your crop. Regardless of your yields, Prograin commits to buying back all of your harvest with your variety premium.
- -Certified early and top-performing Canadian varieties.
- -A grain marketing service that provides you with assistance for answering your questions and for maximizing your contracts.
- -An interactive platform so you can track the commercialization of your crops at any time.

To learn more, visit the IP Seeds section of our Web site.

## Soybean varieties with incomparable performances





## The IP soybean line provides all of the advantages sought by producers:

Competitive premiums

Excellent agronomic performance

100% guaranteed crop buyback program\*

A transport logistics service tailored to your needs.

\* Obligation to sign an agreement

\*\* Prograin confirms it will buy back all of your harvest, regardless of the actual yield.



## High protein 2425 CHU (RM 00.3)

## Maxus

All around positive results

Standability: 9	
Sclerotinia tolerance: 8	
Stability – adaptability: 9	
Vigour for no-till:6	
Adaptability to 30": 4	



## High protein 2475 CHU (RM 00.6)

## **O**pus

Variety combining plant performance and health

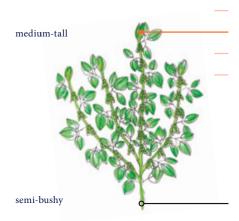
Standability: 8	
Sclerotinia tolerance: 8	
Stability – adaptability: 8	
Vigour for no-till: 7	
Adaptability to 30": 4	

#### **Characteristics**

- · Stable performance in short-season areas
- · Good yield potential
- Very good standability and excellent vigour in the spring

### **Management pointers**

- Best results if seeded at 7 or 15 inches spacing
- · Well adapted to all soil types



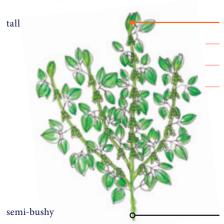
## New

#### **Characteristics**

- $\cdot\,$  Variety selected for its potential high yield
- Bushy variety well adapted to 30" spacing
- · Strong plant with good standability
- · Offers constant yields

## **Management pointers**

- · Sow in narrow rows : 7" and 15"
- · Well adapted to all soil types



## The right population: key to optimal profitability

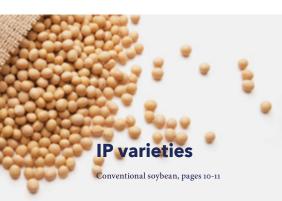
Soybean cultivars do not all respond in the same way to different populations; that's why it's important to plant the recommended density of each variety. At Prograin Research Centre, we conduct rigorous population testing on our different varieties every year. The table below lists the recommended populations for 7", 14" and 30" row spacings in order to obtain an optimal yield.

With a targeted number of seeds/ac, you can determine the sowing rate in kg/ac using the number of seeds or the bag's weight as indicated on the seeds bag. Here is a sample calculation.

Data	Maxus		Your variety	
	Row spacing:	14 in	Row spacing:	in
Target population by row spacing: see table below	Target population :	190.000 seeds/ac	Target population:	seeds/ac
Grain size: indicated on the bag:	Seed size:	5750 seeds/kg	Seed size:	seeds/kg
Number of seeds per bag: see table below	Number of seeds:	110,000/unit	Number of seeds:	110,000 /unit

## **Calculation of seeding rate**

Method #1	190,000 seeds/ac 110,000 seeds/unit = 1.73 unit/ac	seeds/acbags/ac
Method #2	190,000 seeds/ac 5750 seeds/kg = 33 kg/ac	seeds/ac =kg/ac
Method #3 Bag weight (by calculation or the number indicated on the bag):	110,000 seeds/unit 5750 seeds/kg = 19.13 kg/unit	seeds/unit =kg/unit
	1.73 unit/ac X 19.13 kg/unit = 33 kg/ac or 33 kg/ac x 2.2 = 72.6 lb/acre	unit/ac X kg/unit= kg/ac kg/ac X 2.2 = lb/acre





VARIETY	CHU (RM)	SEEDS/KG (MIN/MAX)	ROW ▲ (INCHES)	SEEDS PLANTED/AC	SEEDING RATE (BAGS/AC)	TOLERANCE TO PHYTOPHTORA	PUBESCENCE Colour	E HILUM PROTEIN % Color Protein %
MAXUS	2425 (00.3)	5500/6000	7 14	210,000 170,000	1.50 1.21	n/a	Brown	Imperfect yellow 40
OPUS	2475 (00.6)	5500/6000	7 14	210,000 170,000	1.50 1.21	n/a	Brown	Imperfect yellow 40















Japan "Silken tofu"





Deep fried tofu



China Do fu pi



## Your harvest: World renowned

## Many ask us: "What do you do with the soybean varieties that are grown on our land?"

Your harvests delivered to our facilities help feed over 14 million people on the planet, through a variety of products.

Prograin has commercialized your soybeans in a variety of highly specialized markets for over 30 years. Our efforts are now concentrated on developing new markets like Taiwan, China, South Korea, Thailand and Indonesia.

More than ever, we need your soybean production to meet market needs. Tofu is the product most frequently associated with soya, but there are many uses derived from your harvests.

Pictured here, are just a few examples.

# Key factors

for producing conventional identity-preserved soybeans



# There are some important points to follow to obtain the best profitability from your conventional soybean production.

## Here are the key success factors:

#### **Cleaning of equipment:**

• Essential to avoiding contamination between varieties and with GMOs; seeder, thresher, grain cars and trucks, storage silos, etc.

#### Harvest:

 Check the moisture content, make sure you have favourable weather conditions and make the necessary adjustments to the thresher

#### **Crop histories:**

• Soybeans should be grown in rotation with a different species.

#### Maintaining isolation strips:

• There should be a distance of 3 metres separating two varieties.

Controlling weeds and voluntary crops: • Use herbicides certified in Canada for exportation.

### And remember:

- You must sign the production agreement before you seed your fields.
- You must keep all seed labels until the following year.



For more details and tips, visit prograin.ca/IP Seeds

## Advice from our expert!

Program

Martyn Laramée, Storage coordinator

The preservation of your harvest is critical in order to maximize its quality. Here are the key points to remember:

## **Preservation of the grain:**

#### **Cleanliness of the silo**

- The space between the product and the silo roof (there must be enough space to be able to enter the silo)
- The moisture content of the grain must be between 10% and 13% for optimal quality

## Ventilation\*:

#### In the fall:

- As soon as harvest begins: Cool the grain mass quickly to a uniform temperature and ensure maintenance aeration thereafter.
- In spring: Ventilate to warm the mass, so as to maintain a temperature variation of no more than 10°C with the outside air and ensure maintenance aeration.

## Inspection\*:

#### In fall:

 $\cdot$  Clean silo thoroughly before filling, and make necessary repairs

#### In winter:

 Inspect once or twice a month to check temperature, the general condition of the grain, and to watch for water infiltration

## In spring:

 Before removing grain the first time, inspect the top of the silo carefully for signs of moisture, soybeans with pink discolouration, or any other problem. If necessary, use suction (or other means) to remove the top layer of grain to avoid contaminating the grain mass.



\*Reference: St-Pierre, N., V. Bélanger et A. Brégard. 2014.

Ventilation et conservation des grains à la ferme. Réseau Innovagrains et Centre de référence en agriculture et agroalimentaire du Québec (CRAAQ). 58 p. If you grow conventional soybeans

# Our customer center is for you

Prograin

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## **PRICE INFO**

Soybeans Sep 17

Sovbears Nov 17

tans May 18

9.6750

9,4700

0.0000

BASE PRICE					
COMMERCIAL SOYBEAN PRICE (DELIVERED)	BASIC PREMIUMS	r.	FUTURES CONTRACTS	COMMERCIAL SOYBEAN F (DELIVERED)	RICE
NON GMO HARVEST 2015 (Immediate delivery 2016)	+1.35 /bu		Sep 16 10.21 /bu	425 /mt	
NON GMO HARVEST 2016 (Fall delivery 2016)	+2.60 /bu		Nov 16 10.09 /bu	466 /mt	
NON GMO HARVEST 2016 (Winter delivery 2017)	+2.85 /bu		Mar 17 10.00 /bu	472 /mt	
SOYBEAN SEEDS PRICE (DELIVERED)	BASIC PREMIUMS		FUTURES CONTRACTS	SOYBEAN SEEDS PRICE (DELIVERED)	
NON GMO HARVEST 2015 (Delivery on request 2016)	+1.35 /bu		Sep 16 10.21 /bu	425 /mt	
NON GNO HARVEST 2016 (Delivery on request 2016)	+2.80 /bu		jan 17 <b>10.08</b> /bu	473 /mt	
SOYBEANS CBOT					
MONTH	HIGH	LOW	CLÔTURE	PREVIOUS CLOSING	CHANGE
Soybears Sep 16	10.2850	10.1225		10.2050	-0.32%
Soybeans Nov 16	10.1575	10.0100		10.0875	-0.05%
Soybeans Jan 17	10.1500	10.0075		10.0825	-0.02%
Soybeans Mar 17	10.0675	9.9300	1	0.000	-0.17%
Soybeans May 17	10.0350	9.9100		9.9675	-0.23%
Soybeans Jul 17	10.0375	9.9175		9.9700	-0.20%
Soybeans Aug 17	9.9675	9.8825		9.9100	-0.15%

9.6050

93675

0.0000

9.6050

9.3750

8.9825

-0.65%

-0.69%

-0.61%

18



TO LOG IN	
Email	WELCOME TO YOUR NEW
Password	CUSTOMER CENTER
Lost your Password	
Remember me LOG IN	New interface   More possibilities  ACCESSIBLE ANYWHERE • 7 DAYS A WEEK • 24H A DAY
Welcome to the new CUSTOMER CENTER Prograin	•
Please use your email address as username .	
Your password remains the same as before. If you have forgotten your password, click Forgot Password.	

The Customer Center, where marketing your harvest begins! The Customer Center is an interactive platform where you can read and sign all of the documents associated with conventional soybean production with Prograin.

## It is also a place where you can view, at any time:

- The premiums offered by Prograin for each conventional variety
- The market price for soybeans, along with an impressive history of soybean prices over time.

## The Customer Center also allows you to:

- Sign and view your production agreements
- Sign and view your buyback contracts
- · View your weigh slips reports
- View the field inspections lists



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Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for these products. Excellence Through Stewardship' is a registered trademark of Excellence Through Stewardship.

#### ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.

Roundup Ready 2 Xtend\* soybean varieties contain genes that confer tolerance to glyphosate and dicamba. Agricultural herbicides that contain glyphosate will destroy crops that do not tolerate glyphosate and those that contain dicamba will destroy crops that do not tolerate dicamba. Contact your Monsanto dealer or call Monsanto Technical Support at 1-800-667-4944 for recommended Roundup Ready Xtend\* crop system weed control programs. Roundup Ready\* technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup\* brand agricultural herbicides. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. Genuity and Design\*, Roundup Ready 2 Xtend\*, Roundup Ready 2 Yield\*, Roundup Ready\*, Roundup\* are registered trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. Licensee.

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#### Certified seeds are synonymous with success. Certified seeds open the door to new opportunities.

- Access to new and improved varieties

- Efficient use of inputs
- -Quality assurance
- Access to new markets
- Support for future development of new varieties

## It all starts with certified seeds.



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quarryseed.com 888-274-9243

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The agronomic content of the **2018 Seed Guide** was prepared and verified by agronomists Maxime Gratton, Philippe Lemaître, Miguel Provost and Marc Saumure.