

## The results grow for themselves.

For over 23 years, InVigor® hybrid canola has consistently delivered top yields and innovative solutions to your farm. Your top-performing hybrids just got stronger with the new InVigor 300 series. These new hybrids offer their own unique agronomic fit for your operation—and the potential for the highest yields you’ve ever seen on your farm.

At BASF, we’re also excited to launch InVigor RATE. Supported by an industry-leading packaging innovation, this target plant population recommendation can help maximize the potential of your InVigor canola. As always, our ongoing goal is to continually raise the bar to provide you with better options to suit your individual needs and make your farm decisions easier.

## Break the yield ceiling.

This year we’re introducing a new series of InVigor hybrids. These two hybrids offer significant yield advancements over our current high-performing InVigor lineup.



### NEW InVigor® L345PC

This new 300 series hybrid has demonstrated exceptionally high yield potential, with internal trial results at 111.4% of InVigor L233P in 2018. It features the patented Pod Shatter Reduction technology as well as first generation clubroot resistance.<sup>1</sup>

<b>Yield</b>	111.9% of the checks (InVigor 5440 and Pioneer® 45H29) in the 2017/2018 Western Canada Canola/Rapeseed Recommending Committee (WCC/RRC) trials 111.4% of InVigor L233P (n=28, 2018)	<b>Traits</b>	Patented Pod Shatter Reduction technology First generation clubroot resistance <sup>1</sup>
<b>Standability</b>	Strong	<b>Maturity</b>	1 day earlier than InVigor L252
<b>Growing Zones</b>	All growing zones	<b>Blackleg</b>	R – Blackleg resistant

n= # of trials

### NEW InVigor® L352C

Suitable for all growing zones, new InVigor L352C offers a significant jump in yield potential and features first generation clubroot resistance.<sup>1</sup> This hybrid yielded 104% of InVigor L252 in the internal InVigor trials. It’s an ideal hybrid for growers who still prefer to swath their canola.

<b>Yield</b>	108.6% of the checks (InVigor 5440 and Pioneer 45H29) in the 2017/2018 WCC/RRC trials 104% of InVigor L252 (n=28, 2018)	<b>Traits</b>	First generation clubroot resistance <sup>1</sup>
<b>Standability</b>	Strong	<b>Maturity</b>	1/2 a day later than InVigor L252
<b>Growing Zones</b>	All growing zones	<b>Blackleg</b>	R – Blackleg resistant

n= # of trials

## InVigor<sup>®</sup> L255PC

This medium-height hybrid has excellent standability and performance, suited for growers in mid- to long growing zones. InVigor L255PC separates itself from all others due to its impressive standability and the benefit it offers of both the patented Pod Shatter Reduction technology and first generation clubroot resistance.<sup>1</sup>

Yield	109% of the checks (InVigor 5440 and Pioneer 45H29) in 2016 WCC/RRC trials	Traits	Patented Pod Shatter Reduction technology First generation clubroot resistance <sup>1</sup>
Standability	Very strong	Maturity	1.5 days later than the average of the checks
Growing Zones	All mid- to long growing zones	Blackleg	R – Blackleg resistant

## InVigor<sup>®</sup> L234PC

InVigor L234PC is proven to be a high-yielding hybrid with both the patented Pod Shatter Reduction technology of InVigor, as well as second generation multi-genetic clubroot-resistant traits.<sup>1</sup> This hybrid offers outstanding yield protection and strong standability similar to InVigor L233P. This hybrid is a great fit for growers in clubroot-affected areas.

Yield	104% of the checks (InVigor 5440 and Pioneer 45H29) in 2017 WCC/RRC trials	Traits	Patented Pod Shatter Reduction technology Second generation clubroot resistance <sup>1</sup>
Standability	Strong	Maturity	3 days earlier than the average of the checks
Growing Zones	All growing zones	Blackleg	R – Blackleg resistant

## InVigor<sup>®</sup> L233P

InVigor L233P was grown on more acres in Canada than any other canola hybrid in 2019.<sup>2</sup> Featuring the patented Pod Shatter Reduction technology, this early-maturing, high-yielding hybrid provides greater harvest flexibility for growers looking to manage their day-to-day workload during the busy harvest season. It's the winning hybrid for the 2017 and 2018 Canola 100 contest, as well as the winner of the 2018 third-party Straight Cut Canola Performance Trials (CPTs).

Yield	108.8% of the checks (InVigor 5440 and Pioneer 45H29) in 2014/2015 WCC/RRC trials	Traits	Patented Pod Shatter Reduction technology
Standability	Strong	Maturity	Over 3 days earlier than the average of the checks
Growing Zones	All growing zones	Blackleg	R – Blackleg resistant

## InVigor<sup>®</sup> L252

This hybrid continues to offer incredible yield performance and enhanced standability with mid-season maturity. InVigor L252 won the 2018 CPTs for the sixth straight year (average of all growing zones in small plot swath trials). It was also the winner of the 2017 InVigor Standard Swath Yield DSTs.

Yield	110% of the checks (InVigor 5440 and Pioneer 45H29) in 2011/2012 WCC/RRC trials	Traits	-
Standability	Very strong	Maturity	½ day later than the average of the checks
Growing Zones	All growing zones in Canada	Blackleg	R – Blackleg resistant

## Get the most out of InVigor.

Extensive research trials conducted by the BASF Agronomic Excellence team show that a target plant population (TPP) of **5 to 7 plants/ft<sup>2</sup>** helps optimize the yield, consistency and performance of InVigor hybrid canola.

### Benefits of a targeted plant population (TPP).

- Increased plant productivity and yield performance
- More efficient use of available resources
- Improved weed control and reduced intra-crop competition
- Elevated stress tolerance
- More even maturity and uniform plant structure
- Improved lodging resistance and lower sclerotinia incidence



New InVigor packaging in the 2020 season will make targeting an optimal plant population easier. InVigor will be packaged into bags featuring four different thousand seed weight (TSW) ranges with recommended seeding rates for planting approximately 10 acres per bag. Regardless of the TSW range, each bag will contain approximately the same amount of seeds.

BAG RANGE		A	B	C	D
RECOMMENDED SEEDING RATE <sup>1</sup> LBS/AC		4.2 (~10 SEEDS/FT <sup>2</sup> )	4.7 (~10 SEEDS/FT <sup>2</sup> )	5.2 (~10 SEEDS/FT <sup>2</sup> )	5.7 (~10 SEEDS/FT <sup>2</sup> )
TSW RANGE (GRAMS)		4.0-4.4	4.5-4.9	5.0-5.4	5.5-5.9
BAG WEIGHT	LBS	42.2	47.0	51.8	56.7
	KG	19.1	21.3	23.5	25.7
# OF SEEDS/BAG		MINIMUM 4.25 MILLION SEEDS			
SEEDS APPROXIMATELY 10 ACRES PER BAG					

### 2020: A better bag of seed.

Each of the four ranges (A, B, C or D) represent a narrow TSW range to minimize variability. In addition to customized information on TSW, the new packaging also features a seeding rate recommendation specific to each range designed to target your ideal plant population and optimize the yield, agronomic performance and consistency of InVigor.

Please note: Recommended seeding rates are calculated according to seeding approximately 10 seeds/ft<sup>2</sup> and an average survivability of 60% to achieve 6 plants/ft<sup>2</sup>. Results may vary on your farm due to environmental factors and preferred management practices. Best results occur when seeding equipment is calibrated to the range of seed being planted. It is highly recommended to calibrate again if switching to a different TSW range.

### Five advantages of the new InVigor seed count packaging:

1. **Optimizing yield** – It helps target an optimal plant population that will allow InVigor hybrids to perform more consistently.
2. **Simple** – The seeding rate recommendations make it easier to achieve 5 to 7 plants/ft<sup>2</sup>.
3. **Planning** – It's easier to predict the number of bags needed and costs since each bag will seed the same number of acres.
4. **Consistent product** – Each bag will have the same amount of seed making it easier to achieve a target plant population.
5. **Clear packaging** – The TSW ranges and recommended seeding rates are clearly marked on the bag making it simple to calibrate your drill.

To learn more about InVigor RATE, visit [agsolutions.ca/InVigorRATE](https://agsolutions.ca/InVigorRATE).

Please note: Maturity and standability are based on performance ratings and data compiled from several InVigor internal trials over multiple years. Results may vary on your farm due to environmental factors and preferred management practices.

<sup>1</sup> To predominant clubroot pathotypes found in Canada at the time of registration. InVigor L352C, InVigor L345PC, and InVigor L255PC all share the same 1st generation clubroot resistance profile. InVigor L234PC has this resistance profile plus it contains 2nd generation multi-genetic clubroot resistance to additional clubroot pathotypes to help combat evolving clubroot pathotypes.

<sup>2</sup> 2019 BPI (Business Planning Information) data.

## Canola solutions.



Our complete line of canola crop protection solutions can help you harvest even greater success. Learn how each of our products supports your InVigor hybrid canola right from the start to help maximize yield potential.

### Liberty®

Herbicide

Safeguard the yield potential of your InVigor canola with the powerful protection of Liberty® herbicide. The unique Group 10 chemistry helps you tackle tough weeds and manage resistance.

### SELECT®

Herbicide

For control of volunteer barley and improved wild oats control, add Select® herbicide with Amigo® adjuvant to Liberty 200SN herbicide. Select protects against grassy weeds with one post-emergent pass. It tank mixes easily with Liberty for enhanced grassy weed control in your InVigor hybrid canola.

### Cotegra®

Fungicide

Cotegra® fungicide combines the two leading active ingredients that target sclerotinia to provide best-in-class protection, preserving the quality and yield potential of your InVigor canola.

### Eragon® LQ

Powered by Kixor® Herbicide

Take your canola across the finish line with Eragon® LQ pre-harvest herbicide. Dry down both the crop and weeds for an easier, more efficient harvest.

To learn more, visit [agsolutions.ca](http://agsolutions.ca) or call **AgSolutions®** Customer Care at 1-877-371-BASF (2273).

**InVigor®**

**BASF**

We create chemistry

#### Always read and follow label directions.

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