

Trusted technology.

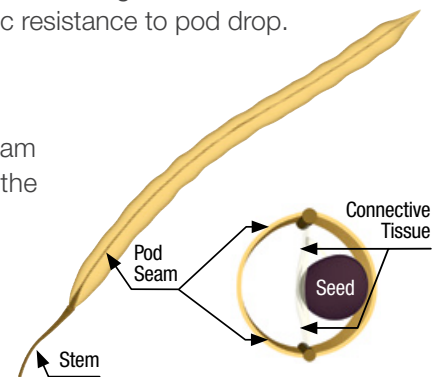
Providing growers with the option to straight cut or delay swathing canola without sacrificing yield potential, the patented Pod Shatter Reduction technology of InVigor[®] hybrid canola continues to revolutionize the way canola growers approach their entire season. Since its launch, Pod Shatter Reduction hybrids from InVigor have been grown on more than **40 million acres** across Canada. These Pod Shatter Reduction hybrids continue to prove that they stand up to the elements.

With a wide selection of maturity choices, BASF is pleased to offer growers ten different high-performing InVigor canola hybrids with the patented Pod Shatter Reduction technology. These include NEW InVigor L343PC, NEW InVigor L356PC, InVigor L340PC, InVigor L357P, InVigor L345PC, InVigor Choice LR344PC, InVigor L233P, InVigor L255PC, InVigor L234PC and InVigor Health L258HPC. All ten hybrids also exhibit strong genetic resistance to pod drop.

How does the Pod Shatter Reduction trait work?

Pod shatter refers to the release of seeds before harvest, occurring when the pod seam and connective tissue break apart and release them. In contrast, pod drop indicates the loss of an entire pod from a weakened stem.

The patented Pod Shatter Reduction trait strengthens the pod seam and connective tissue to safely retain the seeds in the pod until you are ready to harvest.








The Pod Shatter Reduction advantage.


- Helps protect your yield
- Harvest flexibility to delay swath or straight cut
- Reduces harvest loss from equipment, late fall harvests and overwintered canola
- Minimize the impact of late-season wind, hail and snow
- Longer pod fill resulting in larger seeds and maximizing yield
- Reduces volunteer canola




InVigor 300 series | The innovation adds up.


The 300 series grows even stronger with two new additions. With the potential for the highest yields you've ever seen on your farm*, these two new InVigor 300 series hybrids both harness our patented Pod Shatter Reduction technology and encompass what it means to be a 300 series hybrid.


<p>NEW</p> 	<p>New InVigor L343PC combines performance with protection. This high-yielding Pod Shatter Reduction hybrid contains second-generation clubroot resistance and offers a significant yield increase over InVigor L234PC plus improved standability.</p> <p>We recommend growing InVigor L343PC with second-generation clubroot resistance in clubroot-affected areas after two cycles of growing first-generation clubroot-resistant hybrids or when clubroot symptoms appear in first-generation clubroot-resistant hybrids.</p>	<p>Yield</p> <p>Traits</p> <p>Growing Zones</p> <p>Standability</p> <p>Maturity</p> <p>Blackleg</p>	<p>111.3% of the checks (InVigor L233P and Pioneer® 45H33) in 2019 & 2020 WCC/RRC¹ trials 106% of InVigor L233P (n=43 2019 & 2020)</p> <p>Patented Pod Shatter Reduction technology Second-generation clubroot resistance²</p> <p>All growing zones</p> <p>Strong</p> <p>1 day later than InVigor L234PC</p> <p>R – Blackleg resistant</p>
<p>NEW</p> 	<p>For growers targeting that extra bushel or two out of their canola, new InVigor L356PC is here. InVigor L356PC was our highest-yielding hybrid in the 2020 WCC/RRC trials. It also combines first-generation clubroot resistance with Pod Shatter Reduction technology and features strong standability.</p>	<p>Yield</p> <p>Traits</p> <p>Growing Zones</p> <p>Standability</p> <p>Maturity</p> <p>Blackleg</p>	<p>113.8% of the checks (InVigor L233P and Pioneer® 45H33) in 2019 & 2020 WCC/RRC trials 108.8% of InVigor L233P (n=38 2019 & 2020)</p> <p>Patented Pod Shatter Reduction technology First-generation clubroot resistance²</p> <p>All growing zones</p> <p>Strong</p> <p>1/2 day earlier than InVigor L255PC</p> <p>R – Blackleg resistant</p>
	<p>High yield, mid maturity, Pod Shatter Reduction and first-generation clubroot resistance—InVigor L340PC has it all. With strong standability, it excels in fields under irrigation or when lodging is a concern.</p>	<p>Yield</p> <p>Traits</p> <p>Growing Zones</p> <p>Standability</p> <p>Maturity</p> <p>Blackleg</p>	<p>108.9% of the checks (InVigor L233P and Pioneer® 45H33) in 2019 WCC/RRC trials 107.8% of InVigor L233P (n=16 trials, 2019)</p> <p>Patented Pod Shatter Reduction technology First-generation clubroot resistance²</p> <p>All growing zones</p> <p>Strong</p> <p>1 day earlier than InVigor L252</p> <p>R – Blackleg resistant</p>
	<p>This Pod Shatter Reduction hybrid carries the unique distinction of containing exceptional blackleg resistance as well as providing high yields. InVigor L357P is a great fit for growers in non-clubroot areas and who irrigate or when lodging is a concern.</p>	<p>Yield</p> <p>Traits</p> <p>Growing Zones</p> <p>Standability</p> <p>Maturity</p> <p>Blackleg</p>	<p>112.9% of the new checks (InVigor L233P and Pioneer® 45H33) in 2018 & 2019 WCC/RRC trials 109.7% of InVigor L233P (n=39 trials, 2018 & 2019)</p> <p>Patented Pod Shatter Reduction technology Exceptional blackleg resistance</p> <p>Mid to long growing zones</p> <p>Very strong</p> <p>1/2 day later than InVigor L252</p> <p>R – Blackleg resistant (Very strong)</p>
	<p>As the highest-yielding hybrid at the 2020 Canola Performance Trials (Straight Cut), InVigor L345PC offers a significant jump in yield potential over InVigor L233P. It also features our patented Pod Shatter Reduction technology and first-generation clubroot resistance.</p>	<p>Yield</p> <p>Traits</p> <p>Growing Zones</p> <p>Standability</p> <p>Maturity</p> <p>Blackleg</p>	<p>111.9% of the checks (InVigor 5440 and Pioneer® 45H29) in the 2017 & 2018 WCC/RRC trials 111.4% of InVigor L233P (n=28 trials, 2018)</p> <p>Patented Pod Shatter Reduction technology First-generation clubroot resistance²</p> <p>All growing zones</p> <p>Good</p> <p>1 day earlier than InVigor L252</p> <p>R – Blackleg resistant</p>


	<p>InVigor Choice hybrid with Pod Shatter Reduction technology and first-generation clubroot resistance. InVigor LR344PC features both the LibertyLink® technology system and TruFlex™ canola with Roundup Ready® Technology. Perfect for growers looking to combine high-yielding InVigor genetics with the flexibility of Liberty® herbicide or Roundup® herbicide applications.</p>	Yield	104.1% of the checks (InVigor L233P and Pioneer® 45H33) in 2018 WCC/RRC trials 103.6% of InVigor L233P (n=12 trials, 2018)
		Traits	Patented Pod Shatter Reduction technology First-generation clubroot resistance ² Both the LibertyLink technology system and TruFlex™ canola with Roundup Ready® Technology
		Growing Zones	All growing zones
		Standability	Good
		Maturity	Over 1 day earlier than InVigor L252
		Blackleg	R – Blackleg resistant

InVigor 200 series

	<p>Germination magazine's 2021 Seed of the Year. InVigor L233P has been grown on more acres than any other InVigor canola hybrid in Western Canada. Featuring patented Pod Shatter Reduction technology, this very early maturing, high-yielding hybrid provides the harvest flexibility you can count on.</p>	Yield	108.8% of the checks (InVigor 5440 and Pioneer® 45H29) in 2014 & 2015 WCC/RRC trials
		Traits	Patented Pod Shatter Reduction technology
		Growing Zones	All growing zones
		Standability	Strong
		Maturity	Over 3 days earlier than the average of the checks
		Blackleg	R – Blackleg resistant

	<p>InVigor L255PC is a Pod Shatter Reduction hybrid with first-generation clubroot resistance that separates itself from other hybrids due to its very impressive standability. It's a great fit for growers in the mid to long growing zones and in fields under irrigation or when lodging is a concern.</p>	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 ²
		Growing Zones	All mid to long growing zones
		Standability	Very strong
		Maturity	1.5 days later than the average of the checks
		Blackleg	R – Blackleg resistant

	<p>This early-maturing Pod Shatter Reduction hybrid contains second-generation clubroot resistance, which makes it a great fit for growers in known clubroot-affected areas who still want performance. We recommend growing InVigor L234PC with second-generation clubroot resistance in clubroot-affected areas after two cycles of growing first-generation clubroot-resistant hybrids or when clubroot symptoms appear in first-generation clubroot-resistant hybrids.</p>	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 ²
		Growing Zones	All growing zones
		Standability	Good
		Maturity	3 days earlier than the average of the checks
		Blackleg	R – Blackleg resistant

	<p>This high-yielding hybrid is suitable for all mid to long growing zones and offers the patented Pod Shatter Reduction technology as well as first-generation clubroot resistance. InVigor Health L258HPC produces a speciality oil profile that is more heat stable and higher in oleic acid. Its strong standability also makes it a great fit for fields under irrigation.</p>	Yield	104.9% of the checks (InVigor 5440 and Pioneer® 45H29) in 2017 WCC/RRC trials
		Traits	Speciality oil Patented Pod Shatter Reduction technology First-generation clubroot resistance ²
		Growing Zones	All mid to long growing zones
		Standability	Very strong
		Maturity	1.5 days later than the average of the checks
		Blackleg	R – Blackleg resistant

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.

n=number of balanced trials.

*Results may vary on your farm due to environmental factors and preferred management practices.

¹ Western Canadian Canola/Rapeseed Recommending Committee.

² To predominant clubroot pathotypes found in Canada at the time of registration. InVigor L356PC, InVigor L340PC, InVigor L345PC, InVigor Choice LR344PC, InVigor L255PC and InVigor Health L258HPC all share the same first-generation clubroot resistance profile. InVigor L343PC and InVigor L234PC have this resistance profile plus they contain second-generation multigenic clubroot resistance to additional clubroot pathotypes to help combat evolving clubroot pathotypes.

TESTIMONIAL

“ I’ve been growing InVigor canola on my farm for 15 years. I’ve tried many different varieties from other companies, and InVigor remains our seed of choice. Time and time again in side by side trials InVigor outperforms the competition. The introduction of shatter resistant varieties has been a big benefit to us. We have moved to primarily straight cutting canola saving us time and manpower by spraying instead of swathing. ”

Contest entry from the 2020 InVigor Community Challenge.

Tyler, Meota, SK

Tips for straight cutting.

- **Monitor seeding rate to achieve desired target plant population** – We recommend targeting a uniform plant population of 5 to 7 plants/ft² by adjusting seeding rates based on the TSW range of the seed
- **Eliminate weeds** – Clean fields are easier to straight cut; weeds, when still green, can cause both harvest and storage issues
- **Be on the lookout for green plant material** – Monitor your harvested canola seed even if it comes off dry as there is a greater chance of plant material making it into the sample
- **Maintain appropriate combine and reel speeds** – You must re-evaluate all of your combine settings when straight cutting, which could involve slower harvest speeds; if you are using a reel, ensure the speed of the reel matches the speed of your combine
- **Consider using a pre-harvest application** of Heat[®] LQ herbicide + glyphosate to reduce green material and allow the crop to dry down more evenly

Heat[®] LQ

Powered by Kixor[®] Herbicide

Cut straight to an easier harvest.

- Consistent crop and weed dry down
- Simplify your harvest:
 - Easier crop cutting
 - More bushels per hour
 - Increased fuel efficiency
 - Less dockage
- Cleaner fields the following spring

For more information on Heat LQ pre-harvest, visit agsolutions.ca/heatlqpreharvest.



Source: BASF Trial, Fort Saskatchewan, AB, 2020

For more tips on straight cutting canola, visit agsolutions.ca/InVigor.

Contact **AgSolutions[®]** Customer Care at 1-877-371-BASF (2273) for additional inquiries.

InVigor[®]

BASF
We create chemistry

Always read and follow label directions.

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