



InVigor®

 **BASF**
We create chemistry

InVigor®
HYBRID CANOLA
LINEUP

2024

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Canola without compromise.

From everyone here at BASF, we'd like to thank you for your continued support of InVigor® hybrid canola over the years. We wouldn't be where we are today without you and will continue to work hard to support you and your operation with solutions you can count on.

The 2024 InVigor hybrid canola lineup doesn't compromise when it comes to the potential performance it brings to your fields. With every hybrid in our lineup containing patented Pod Shatter Reduction technology and most with clubroot-resistant genetics, you can rely on protection and flexibility in every field.

Have a great 2024 season.
Thank you for choosing InVigor.



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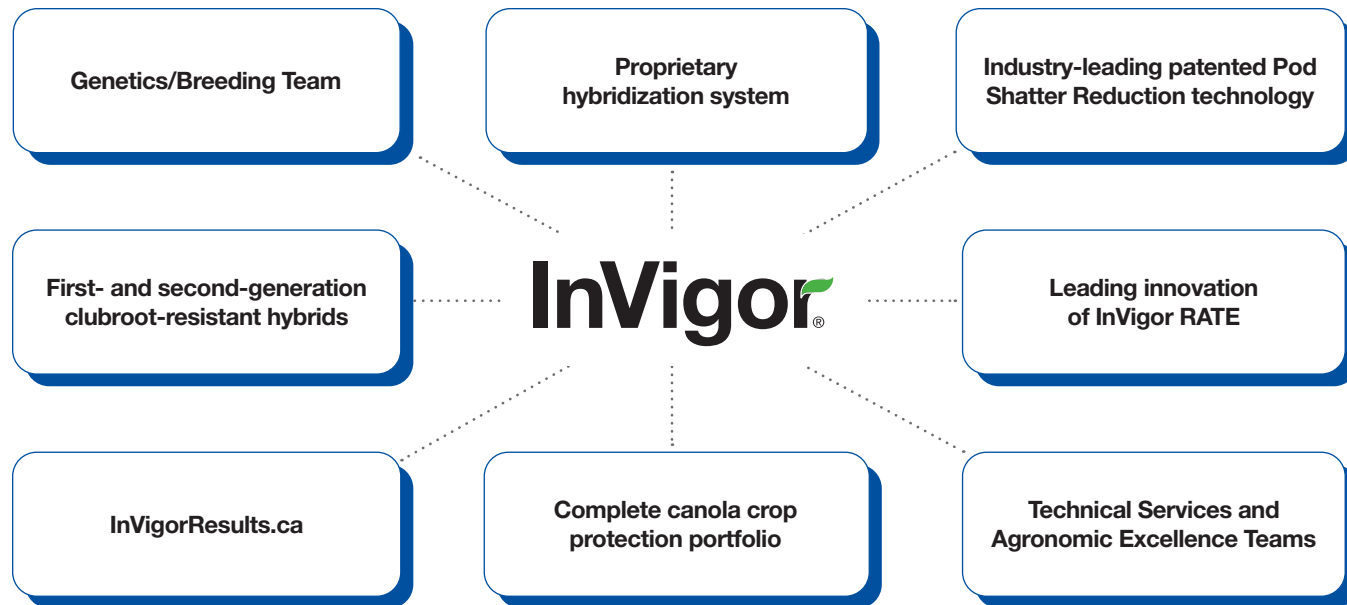


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The total package.

BASF packs innovation, top performance and consistency into every bag of your InVigor hybrid canola.



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A lineup full of promise, potential and performance.



To see our lineup in action, visit agsolutions.ca/InVigorLineup.

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Growing leaders in every zone.

Hybrid Name	Trials	1 st	2 nd	3 rd	% in Top 3*
InVigor L345PC	65	18%	31%	18%	68%
InVigor L356PC	67	28%	18%	15%	61%
InVigor L343PC	68	16%	10%	28%	54%
InVigor L340PC	68	21%	24%	9%	53%
InVigor L350PC	68	9%	9%	16%	34%
DEKALB® DKLL-83SC	25	20%	4%	4%	28%
DEKALB® DKLL-82SC	8	0%	0%	25%	25%
DEKALB® DKLL-84 CRSC	43	5%	2%	7%	14%
Pioneer® P505MSL	60	3%	3%	7%	13%
Brevant® B3010M	42	0%	5%	5%	10%

Source: 2022 Demonstration Strip Trial Results

* Note: Percent in top 3 is calculated based off number of times a hybrid has been in the top 3 for yield, divided by the total number of trials the hybrid was present in.

All percentage values have been rounded to their nearest whole value. Results may vary on your farm due to environmental factors and preferred management practices.

See how hybrids performed in your canola growing zone.

SHORT
growing zone

MID
growing zone

LONG
growing zone

Visit agsolutions.ca/GrowingZone.

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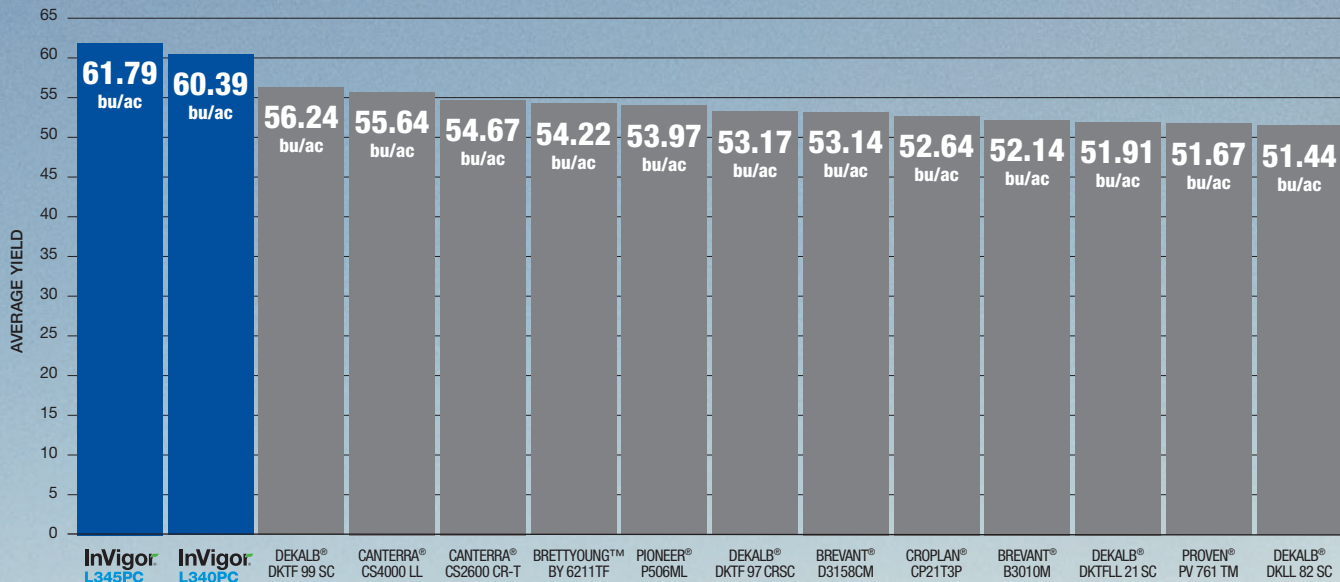
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2022 Canola Performance Trials - Straight Cut.



Source: Canola Performance Trials, 2021 & 2022, n=37

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

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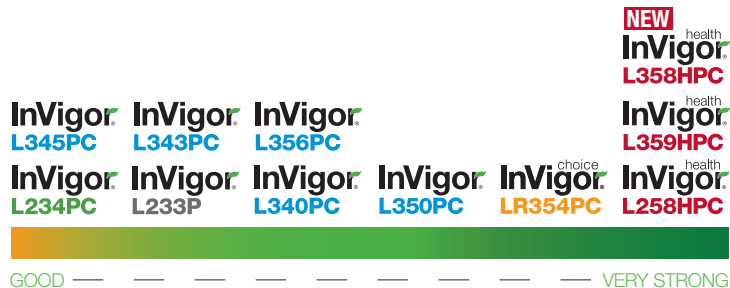
Canola that's got you covered.

With a strong lineup of top-performing hybrids to suit your needs, we have a fit for every field.

MATURITY



STANDABILITY



Please note: Information displayed on this chart is 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.

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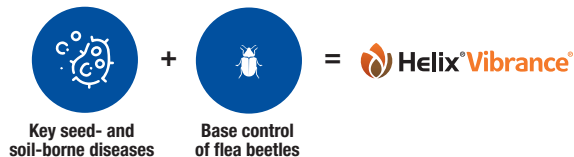
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Performance, meet protection.

Stay a step ahead of early-season pests with your choice of seed treatments for your InVigor canola.

Talk to your retailer early about seed treatment needs to secure solutions for your farm.

Learn more about
your seed treatment
options.



OR



OR



OR

NEW – on select hybrids



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Know before you go.

BASF is always looking for new ways to help make success simple for you. This year, that comes in the form of updated colour-coded InVigor packaging—still with clearly labelled hybrids and ranges—to help you identify the hybrid traits as well as the seed treatment applied.



Visit agsolutions.ca/InVigorPackaging to watch a video on the colourful subject.

Hybrid Traits	Bag colour
Pod Shatter Reduction + Clubroot Resistance	Blue
Pod Shatter Reduction	Green
InVigor Choice	Orange
InVigor Health	Red
Seed Treatments	Tape colour
Helix [®] Vibrance [®]	Grey
Helix [®] Vibrance [®] + BUTEO [®] start	Orange
Helix [®] Vibrance [®] + Lumiderm [®] INSECTICIDE SEED TREATMENT	Red

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The InVigor hybrid naming system.

InVigor hybrids are classified according to an easy-to-remember naming system. Every character within the system provides you with specific product information.



- 1** The initial letter designates herbicide tolerance (L signifies the LibertyLink® technology system, R signifies the TruFlex® canola with Roundup Ready® Technology).
- 2** First number specifies the series (i.e., 1, 2, 3 and so on).
- 3** Second number represents the maturity rating (i.e., 3 = early, 5 = mid, 7 = long).
- 4** Third number identifies the hybrid in the series.
- 5** Last letter(s) highlights specific agronomic characteristics of the hybrid (i.e., P for Pod Shatter Reduction, C for clubroot resistance and H for InVigor Health hybrids).

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Setting up for success.

1. Manage volunteer canola

- Volunteers make it more difficult to achieve the target plant population, lower the yield of the crop and increase the incidence of disease
- Target volunteer canola and other weeds prior to seeding with Certitude® herbicide

Certitude®
Herbicide

2. Target an optimal plant population of 5 to 7 plants/ft² using InVigor RATE

3. Target a seeding depth of 0.75" to 1.25"

4. Choose multiple InVigor hybrids on your farm

5. Protect your investment to maximize yields

- Use disease-resistance genetics where needed (i.e. 1st or 2nd generation clubroot-resistant hybrids)
- Scout for high disease pressure
- Manage sclerotinia to protect the potential of your InVigor with Cotegra® fungicide

Cotegra®
Fungicide

Farming is a balance of agronomy and business. BASF recommends following a minimum of a 1-in-3-year canola rotation, but if you are shortening your rotation, the steps above become even more important.

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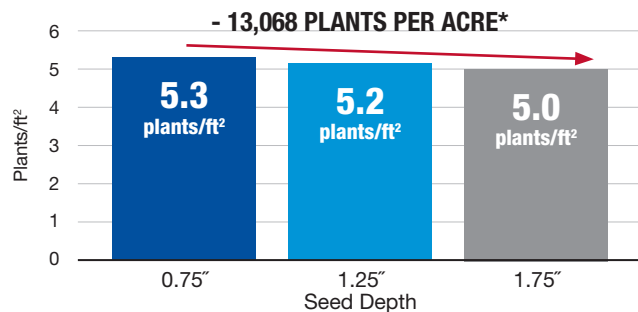
An in-depth look at seeding.

BASF is always striving to help you be successful. Through 67 trials across 6 seasons in Western Canada, a dedicated team examined the impact seeding depth had on InVigor canola. Here's what they found:

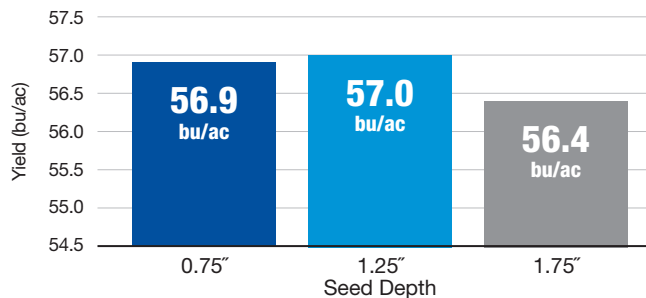
Target a seeding depth of 0.75" to 1.25"

- Improved establishment, plant density and yield
- Ensures seedlings have adequate moisture to establish under moderate conditions
- More uniform flowering and maturity
- In more extreme conditions (wet, dry, hot or cold), you may need to adjust your seeding depth outside this range

Plant density (n=63)



Optimized yield (n=62)



* Plant density decreases as seeding depth increases from 0.75" to 1.75".

Source: Agronomic Excellence Trial data, 2015-2021. Results may vary on your farm due to environmental factors and preferred management practices.

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A better bag of seed.

InVigor hybrid canola ensures every bag has a similar number of seeds and performs at the same high level you've come to expect across all bag ranges. In addition, our refined conditioning process removes seed that underperforms, further enhancing the consistency in performance of InVigor hybrid canola.

Optimized yield.

Target 5 to 7 plants/ft² to allow InVigor hybrids to perform more consistently.

Simple.

Seeding rate recommendations on the bag make it easier to achieve 5 to 7 plants/ft².

Planning.

Easier to predict the number of bags needed and cost since each bag will seed approximately the same number of acres.

Consistency.

Each bag contains a similar number of seeds.

Easy to understand.

The thousand seed weight ranges and recommended seeding rates are clearly marked on the bag, making it simple to calibrate your drill.

Performance at any size.

Our hybrids perform at the same level across all bag ranges.

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You can have it all.

Every clubroot-resistant hybrid from BASF will come with our patented Pod Shatter Reduction technology in 2024. This combination of beneficial traits means you never have to choose between protection and performance, so you can maximize your yield potential in every field.

Average yields of clubroot-resistant hybrids.

Hybrid	Yield (bu/ac)
InVigor L356PC	51.8
InVigor L345PC	51.5
InVigor L340PC	50.9
InVigor L343PC	50.7
InVigor L350PC	50.2
DEKALB® DKLL-84 CRSC	48.1
Brevant® B3010M	47.6
Pioneer® P505MSL	47.3

Source: Demonstration Strip Trials, 2022, n=38

When growing clubroot-resistant hybrids, we recommend using first-generation clubroot-resistant hybrids in clubroot-affected areas for two cycles or until clubroot systems appear, whichever comes first, then consider switching to second-generation clubroot-resistant hybrids.

Watch the
InVigor Clubroot
in a Minute video



First-generation clubroot-resistant hybrids.



Second-generation clubroot-resistant hybrids.



Learn more about clubroot, our clubroot-resistant options and check out our clubroot-decision tree at agsolutions.ca/clubroot.

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Patented performance that can't be matched.

Our patented Pod Shatter Reduction technology helps you maximize your hard-earned yield potential. Our technology separates itself by strengthening the pod seams of its hybrids to minimize late-season losses.

Average yield losses by hybrid



Source: Demonstration Strip Trials, 2022, n=12

Note: Vials and yield loss data represent averages from the 2022 Demonstration Strip Trials. Results may vary depending on the type of equipment used (including settings), environmental factors and/or preferred management practices. For more information on yield results, visit InVigorResults.ca.

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A decade of delivering.

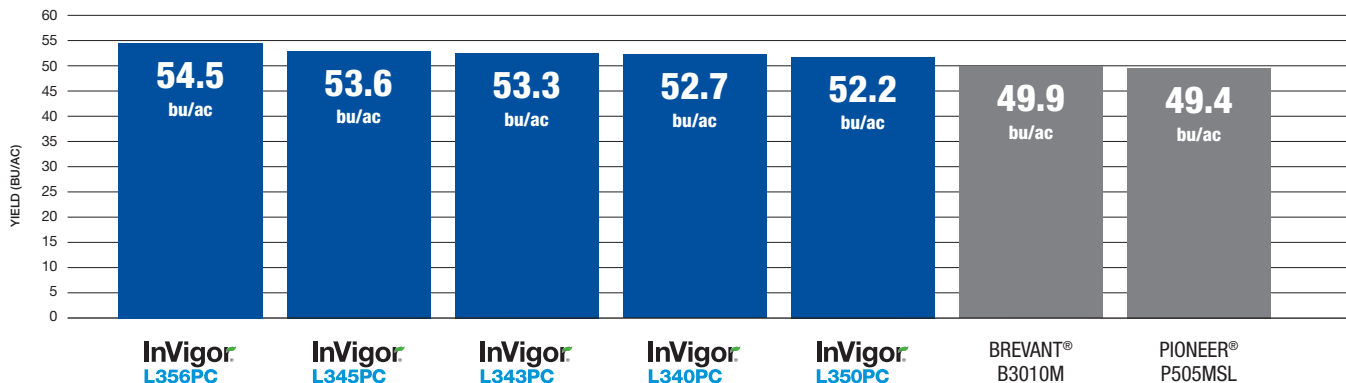
For a decade, you've trusted our patented Pod Shatter Reduction technology to help protect your yield by safely retaining the seeds in the pod until you are ready to harvest, even under adverse conditions.

New for 2024, every InVigor hybrid in our lineup will feature this patented technology, so that you can experience unmatched flexibility at harvest in every field.

Watch the InVigor Pod
Shatter Reduction
InVigor in a Minute video



Average yields by hybrid



Source: Demonstration Strip Trials, 2022, n=12

Note: Results were replicated and adjusted for moisture and dockage.

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

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Protecting your investment.

If you choose InVigor hybrid canola, it means you value performance. So why not protect it from sclerotinia with a product that sets the standard for sclerotinia protection – Cotegra fungicide?



ROI

=



**YIELD
PROTECTED**

Disease incidence (%)
x 0.5 x Target yield

X



**COMMODITY
PRICE**

—



**FUNGICIDE &
APPLICATION COST**

$$\text{\$12.50/AC} = (10\% \times 0.5) \times 50 \text{ BU/AC} \times \text{\$15/BU} - \text{\$25/AC}$$

Visit agsolutions.ca/CotegraROI for more information on your sclerotinia options from BASF.

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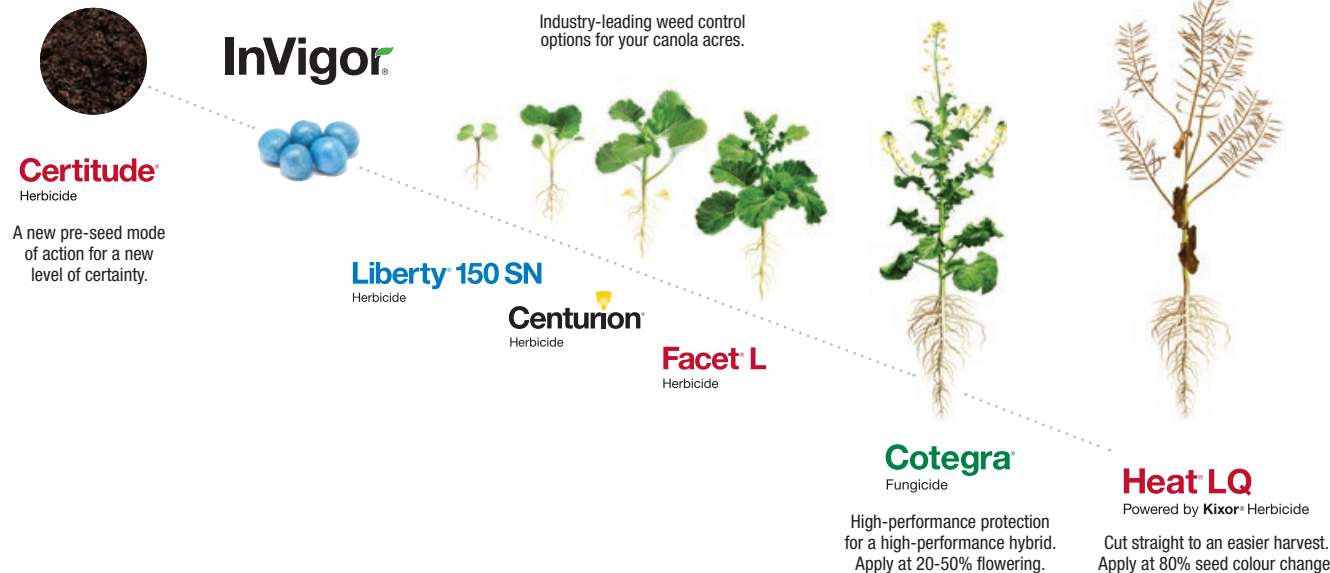
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Stronger together.

You don't compromise when it comes to performance. At BASF, we share that same philosophy. See how our lineup of canola solutions can take your crop from seeding to harvest seamlessly.

Learn more about
the Canola Solutions
portfolio

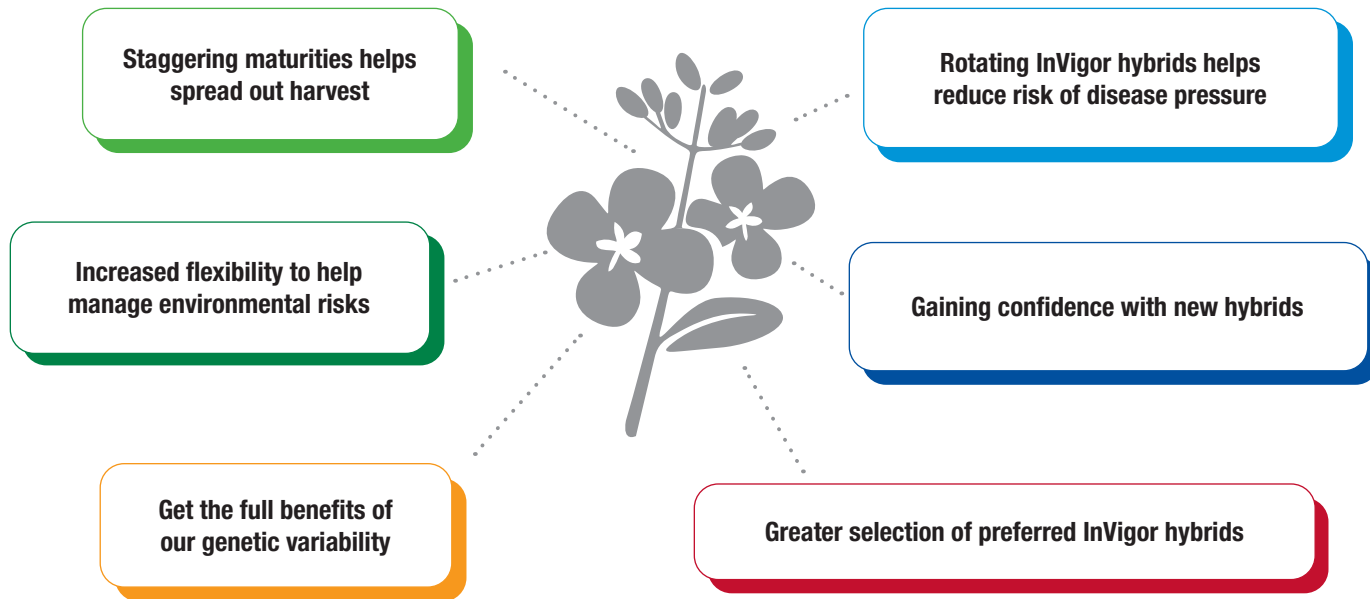
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Grow more. Get more.

Here are the benefits you unlock when you choose multiple InVigor hybrids for your fields.



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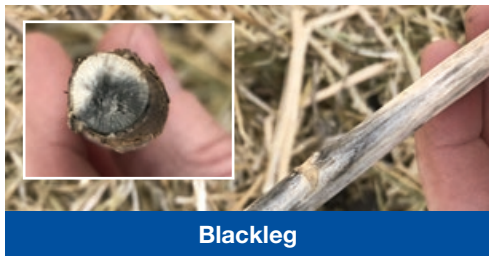
Get a leg up on blackleg.

All InVigor hybrids are rated “R” for resistant to blackleg and contain both minor and major gene resistance.

Minor gene resistance not only helps to protect the longevity of major gene resistance but is also effective across multiple races, which is typical for most fields

Major gene resistance is very effective against blackleg when matched against the corresponding race

Visually differentiating blackleg from certain other diseases can be difficult. To be certain, submit samples for analytical testing.



Visit agsolutions.ca/BlacklegFAQ for more information on blackleg.

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L350PC

115.6%

*of the checks (InVigor L255PC and Pioneer[®] 45H33)
in BASF internal trials*

108.9%

*of InVigor L340PC
(n=22, 2021)*

114.3%

*of InVigor L233P
(n=36, 2020 & 2021)*

Looking for a high-yielding hybrid in the mid to long growing zones? InVigor L350PC has it all. It's our highest yielding hybrid in our breeding trials to date, and combines standability, first-generation clubroot resistance and our patented Pod Shatter Reduction technology.

It is a great fit for growers who irrigate or when lodging is a concern.

Visit **InVigorResults.ca** to see how this hybrid performed in your area.

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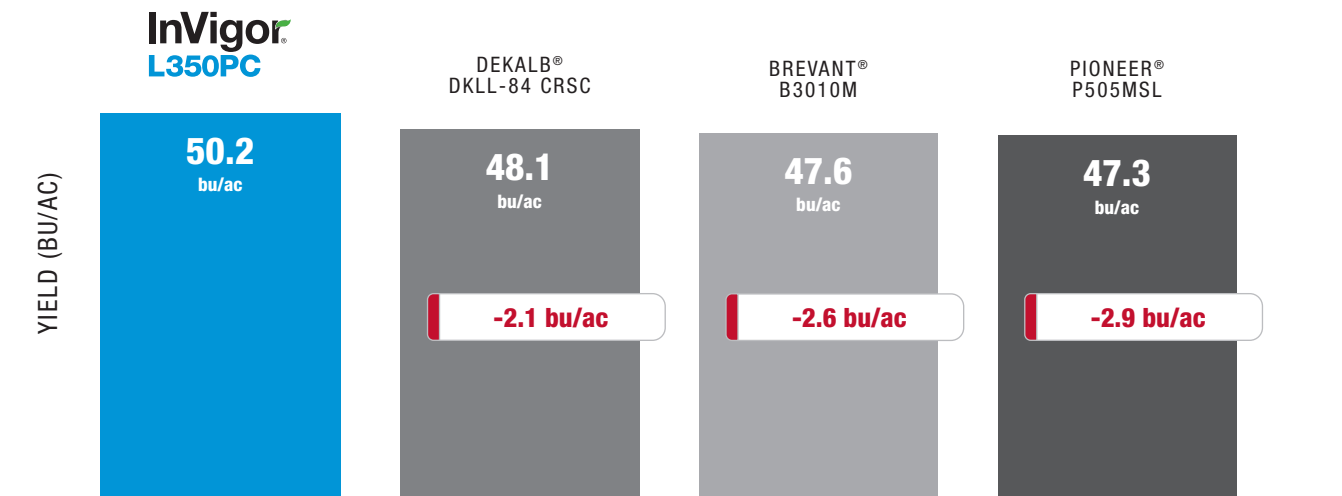
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Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
Mid to long	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance		 or  <small>INSECTICIDE SEED TREATMENT</small>



Source: Demonstration Strip Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit InVigorResults.ca.
 Results may vary on your farm due to environmental factors and preferred management practices.
 Note: Results were replicated and adjusted for moisture and dockage.

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InVigor
L356PC

113.8%

*of the checks (InVigor L233P and Pioneer® 45H33)
in 2019 & 2020 WCC/RRC¹ trials*

108.8%

*of InVigor L233P
(n=38, 2019 & 2020)*

Showing up strong in the 2022 Demonstration Strip Trials, InVigor L356PC demonstrated high yield potential in the mid to long growing zones. It also combines first-generation clubroot resistance with Pod Shatter Reduction technology and features strong standability.

Visit **InVigorResults.ca** to see how this hybrid performed in your area.

¹ Western Canadian Canola/Rapeseed Recommending Committee



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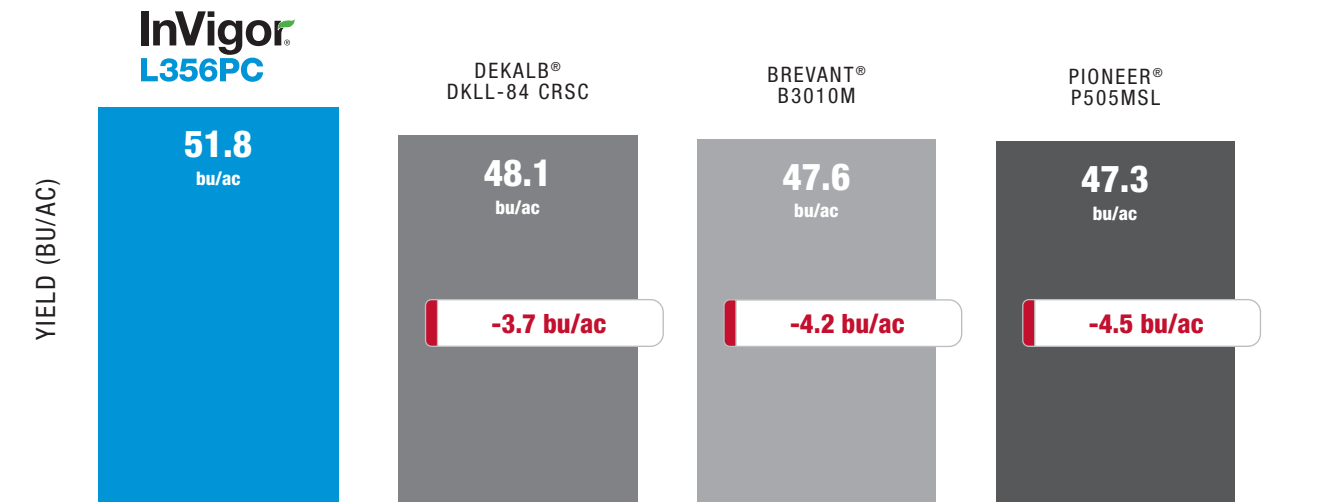
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Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance	 Helix Vibrance	 BUTE start or  Lumiderm [™] INSECTICIDE SEED TREATMENT



Source: Demonstration Strip Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit InVigorResults.ca.
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InVigor[®]

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InVigor[®]
L343PC

111.3%

*of the checks (InVigor L233P and Pioneer[®] 45H33)
in 2019 & 2020 WCC/RRC trials*

106%

*of InVigor L233P
(n=43, 2019 & 2020)*

InVigor L343PC is a go-to choice when you need a high-yielding second-generation clubroot-resistant hybrid. With patented Pod Shatter Reduction, this hybrid offers improved standability and yield potential over InVigor L234PC.

Visit **InVigorResults.ca** to see how this hybrid performed in your area.

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 are noticed in first-generation clubroot-resistant hybrids.



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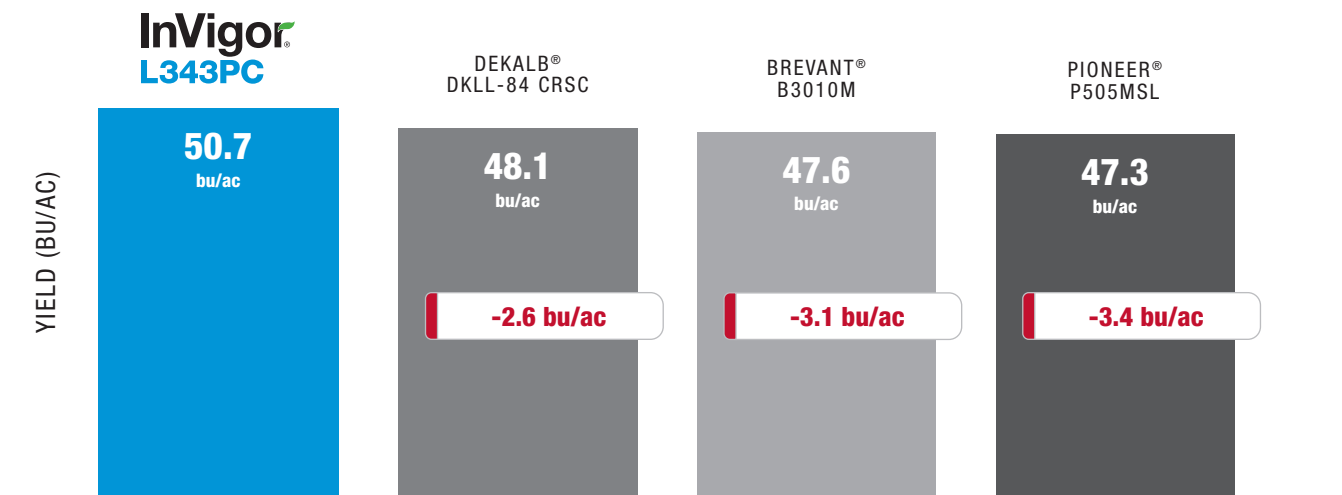
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Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	2 nd Gen. Clubroot Resistance		BUTE^o start or Lumiderm[™] <small>INSECTICIDE SEED TREATMENT</small>



Source: Demonstration Strip Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit InVigorResults.ca.
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InVigor[®] L340PC

108.9%

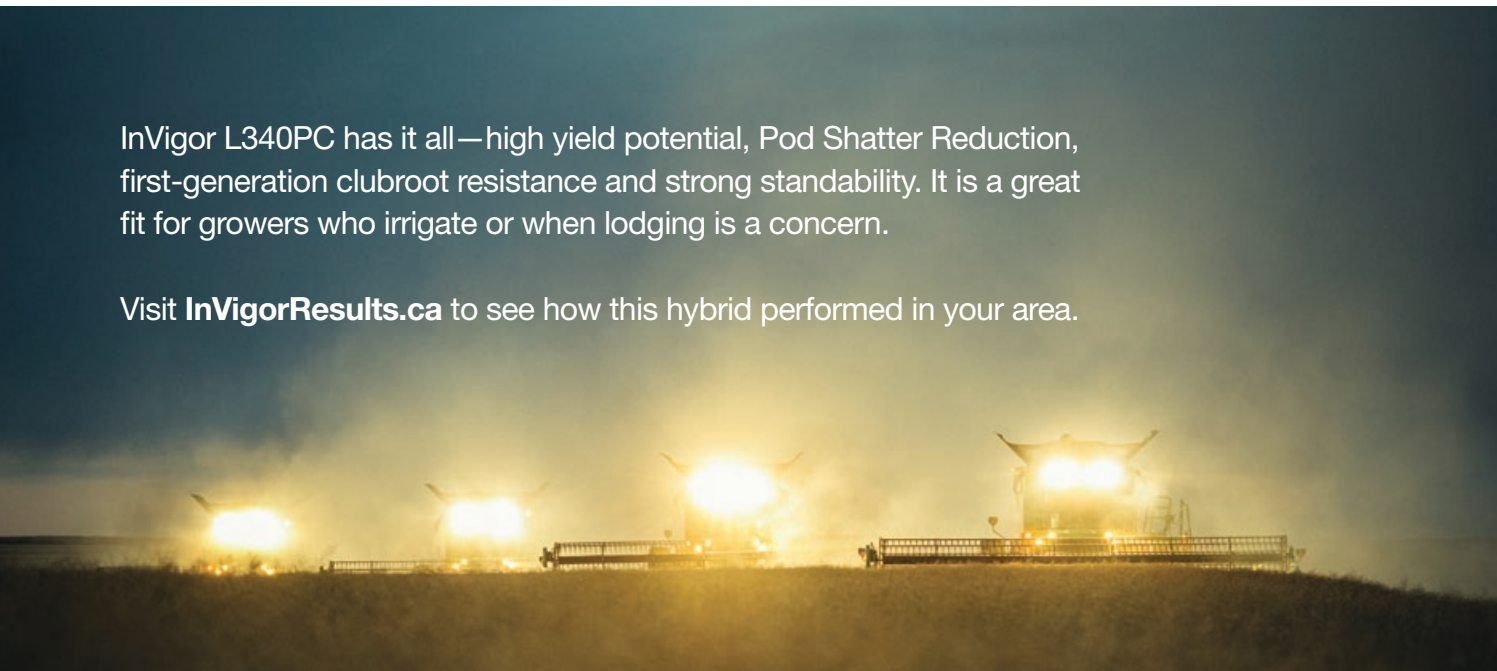
*of the checks (InVigor L233P and Pioneer[®] 45H33)
in 2019 WCC/RRC trials*

107.8%

*of InVigor L233P
(n=16, 2019)*

InVigor L340PC has it all—high yield potential, Pod Shatter Reduction, first-generation clubroot resistance and strong standability. It is a great fit for growers who irrigate or when lodging is a concern.

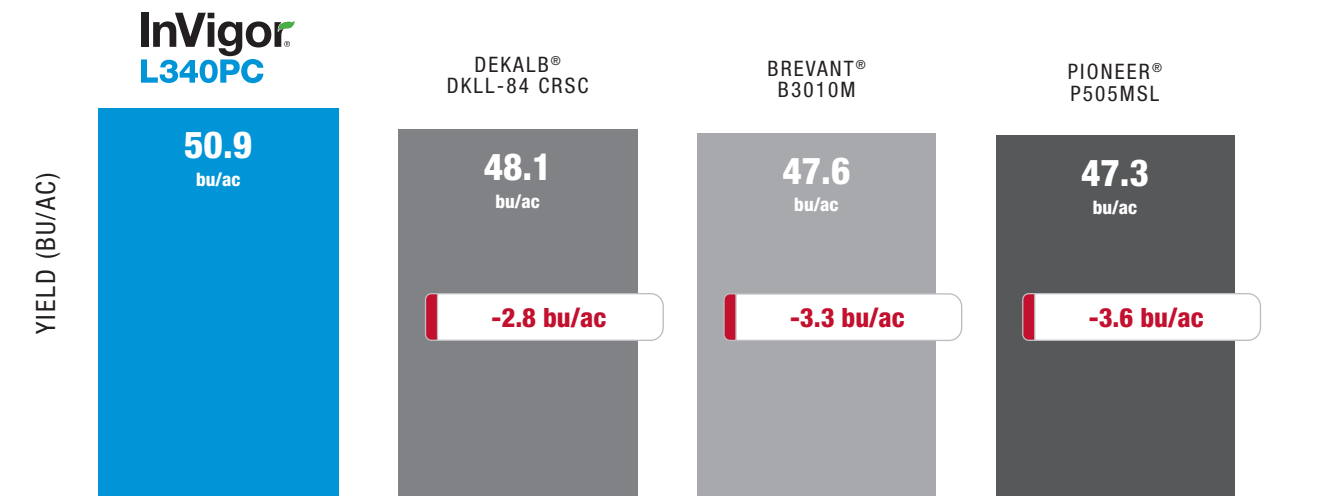
Visit InVigorResults.ca to see how this hybrid performed in your area.

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Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance		 or 



Source: Demonstration Strip Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit InVigorResults.ca.
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InVigor[®]
L345PC

111.9%

*of the checks (InVigor 5440 and Pioneer[®] 45H29)
in 2017 & 2018 WCC/RRC trials*

111.4%

*of InVigor L233P
(n=28, 2018)*

InVigor L345PC was the highest-yielding hybrid in our 2021 and 2022 Demonstration Strip Trials. You can enhance the standability of InVigor L345PC by avoiding short rotations, fields with high volunteer canola populations, high levels of fertility or under irrigation.

Visit **InVigorResults.ca** to see how this hybrid performed in your area.



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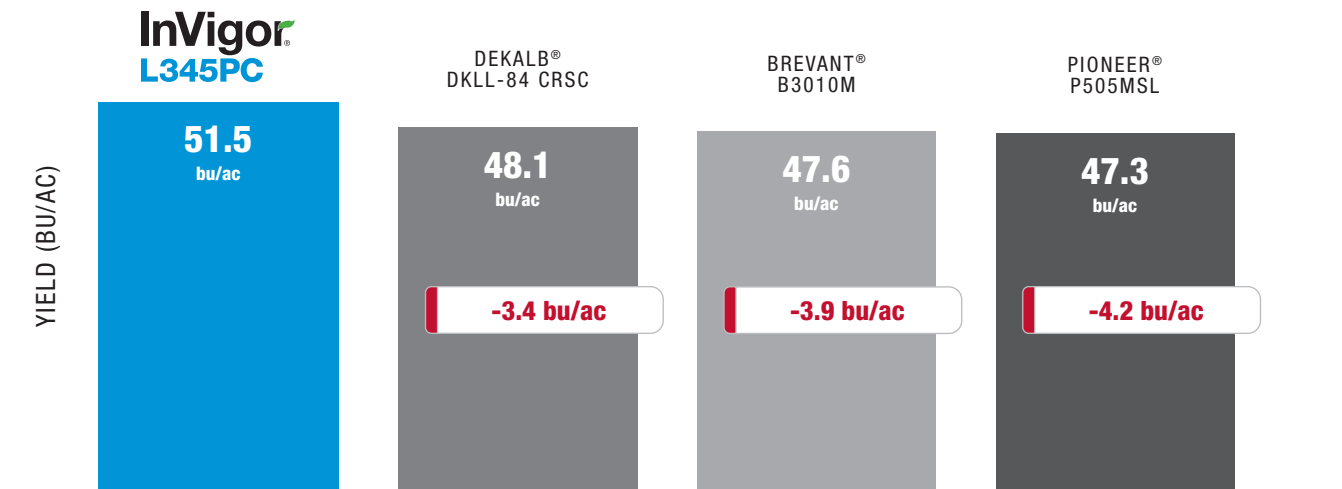
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Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance		 or 



Source: Demonstration Strip Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit [InVigorResults.ca](https://www.invigorsolutions.ca).
 Results may vary on your farm due to environmental factors and preferred management practices.
 Note: Results were replicated and adjusted for moisture and dockage.

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InVigor^{choice}
LR354PC

114.3%

*of the checks (InVigor L255PC and Pioneer® 45H33)
in 2020 & 2021 BASF internal trials*

110.9%

*of InVigor Choice LR344PC
(n=33, 2020 & 2021)*

112.5%

*of InVigor L233P
(n=33, 2020 & 2021)*

InVigor Choice LR354PC offers you high yield potential and great standability; with the added flexibility of harnessing both the LibertyLink® technology system and TruFlex® canola with Roundup Ready® Technology.

Visit **InVigorResults.ca** to see how this hybrid performed in your area.

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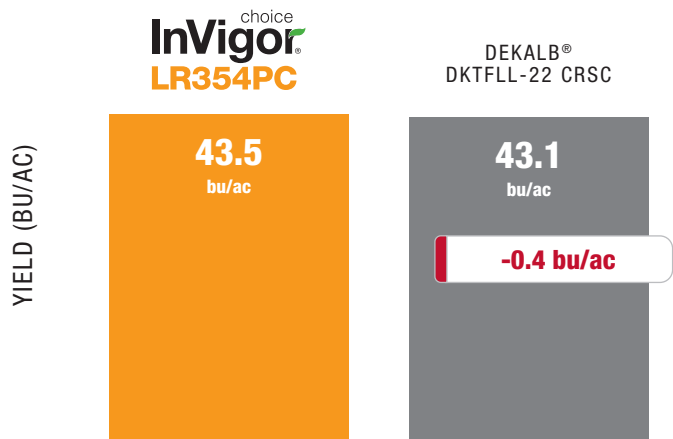
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InVigor^{choice}

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Growing Zones	Blackleg Rating	Agronomic Trait			Treated with
Mid to long	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance	LibertyLink® technology system and TruFlex® canola with Roundup Ready® Technology	
					Also available with:  or 



n=16
Source: Agronomic Excellence Trials, 2022, n=number of balanced trials. Number of trials vary by comparison. For harvest ratings or more information, please visit InVigorResults.ca.
Results may vary on your farm due to environmental factors and preferred management practices.
Note: Results were replicated and adjusted for moisture and dockage.

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InVigor^{health} L359HPC

106.9%

of the checks (InVigor L255PC and Pioneer® 45H33)
in 2021 BASF internal trials

102.3%

InVigor Health L258HPC
(n=11, 2021)

A 300 series hybrid that offers an enhanced oil profile that meets the health and functionality requirements of today's consumer. InVigor Health L359HPC offers great standability, our patented Pod Shatter Reduction technology and first-generation clubroot resistance.

Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance	 Helix [®] Vibrance [®]	 BUTE [®] start or  Lumiderm [™] INSECTICIDE SEED TREATMENT

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InVigor^{health} L358HPC

107.5%

of the checks (InVigor L255PC and Pioneer® 45H33)
in 2021 & 2022 BASF internal trials

109.4%

of InVigor Health L258HPC
(n=42, 2021 & 2022)

NEW
FOR 2024

A new era in InVigor Health is here. InVigor Health L358HPC offers close to a 10% yield improvement over InVigor Health L258HPC, first-generation clubroot resistance, great standability and patented Pod Shatter Reduction technology you've come to trust with InVigor.

Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	1 st Gen. Clubroot Resistance	 Helix [®] Vibrance [®]	 BUTE [®] start or  Lumiderm [™] INSECTICIDE SEED TREATMENT

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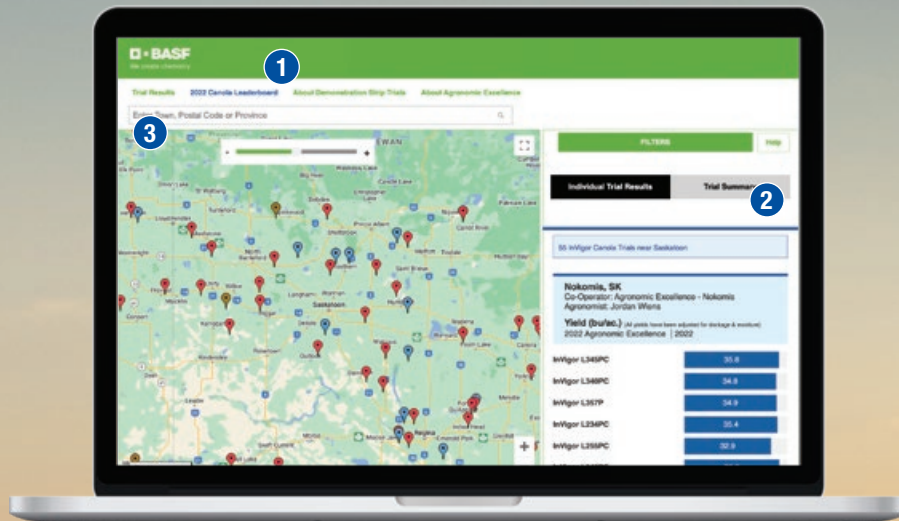
InVigor^{health}

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Results at your fingertips.

InVigorResults.ca features an interactive map that showcases local trial results and compares the performance of InVigor hybrid canola to the competition on fields just like yours.

- 1 Canola hybrid performance leaderboards
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 - 3 Localized trial results from your area
-  Demonstration Strip Trials
 -  Agronomic Excellence Trials



Watch the
InVigorResults.ca
in a Minute video



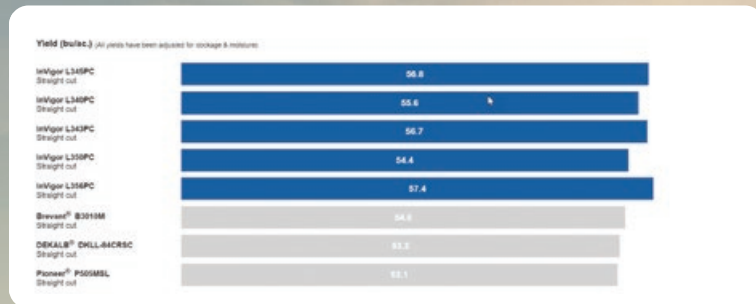
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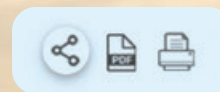
When you select a trial to see more details you will find:



Detailed yield performance.

Treatment Type	Hybrids	Treatments	First Application(Rate)
Pre-Seed	All Hybrids	Glyphosate	0.5 L/ac
In-Crop Herbicide	All Hybrids	Liberty + Centurion + Facet L	1.62 L/ac + 40 ac/acre + 160 ac/acre
Fungicide	All Hybrids	Cotegra	40 ac/jug

Details of crop protection products applied.

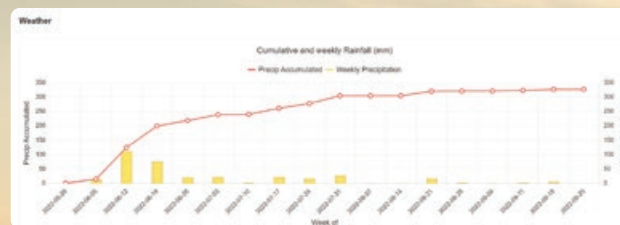


Ability to save and/or share trial data.

Hybrid	Harvest Method	Yield (bu/acre)	Days to Maturity	Lodging Rating	Swelling Rating	Combining Rating	Dockage	Green Seed (%)
InVigor L345PC	Straight out	56.9	90.0	2.0	N/A	6.5	0.7	0.0
InVigor L340PC	Straight out	55.6	90.0	1.0	N/A	10.0	1.1	0.0
InVigor L343PC	Straight out	56.7	90.0	1.0	N/A	9.0	0.7	0.0
InVigor L350PC	Straight out	54.4	96.0	1.0	N/A	10.0	1.1	0.0
InVigor L356PC	Straight out	57.4	95.0	1.0	N/A	9.0	0.6	0.0
Brevard® B3010M	Straight out	54.6	93.0	1.0	N/A	7.0	0.8	0.0
DEXALB® DXLL-44CRSC	Straight out	53.3	96.0	2.0	N/A	3.0	0.6	0.0
Pioneer® P505MSL	Straight out	53.1	97.0	1.0	N/A	7.0	0.9	0.5

Fertility: N 110 P 20 K 30 S 30

Harvest ratings and days to maturity.



Weather conditions.

Source: Demonstration Strip Trials, Daysland, AB, 2022.
Results may vary on your farm due to environmental factors and preferred management practices.

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Visit agsolutions.ca/InVigor

Contact your local BASF **AgSolutions**® Grower or Retail Representative

Call **AgSolutions** Customer Care at 1-877-371-BASF (2273)



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