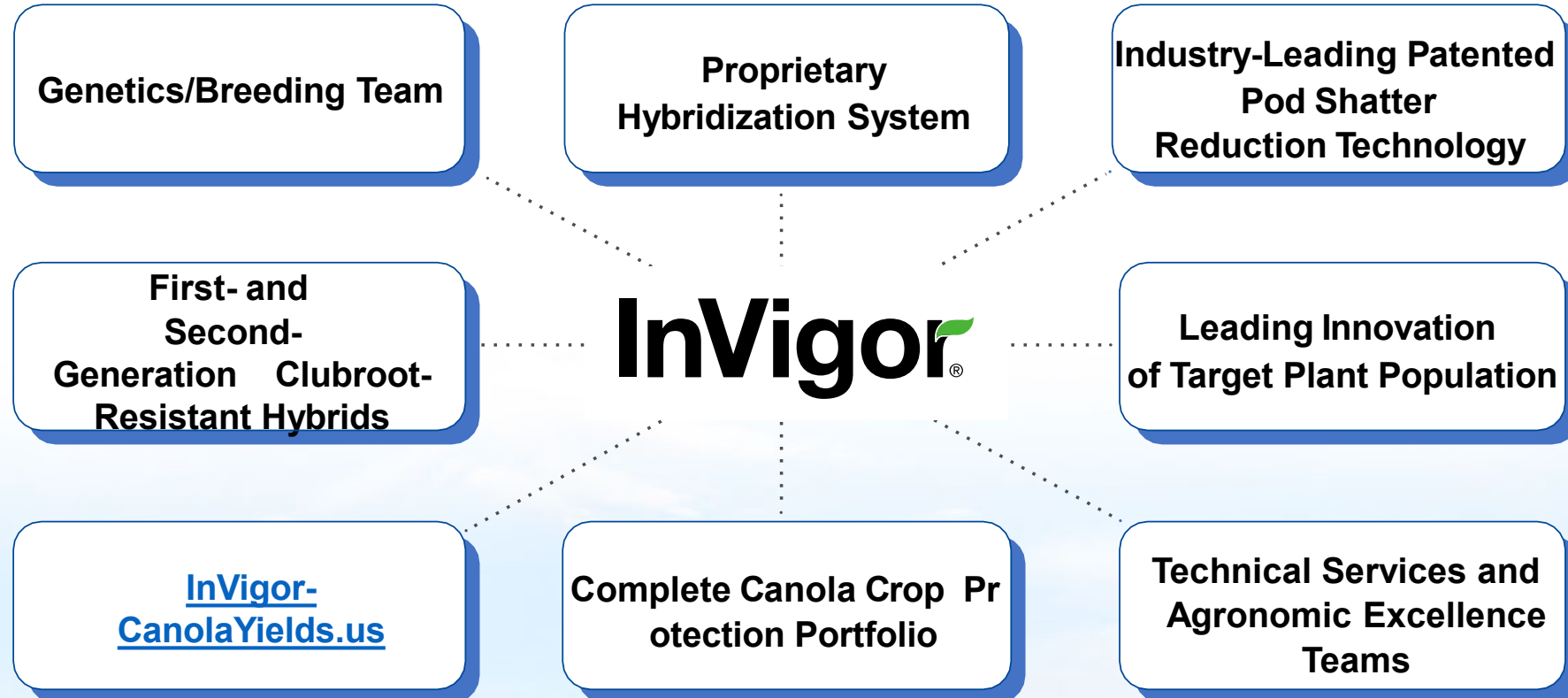


2024 MN Canola Symposium – Roseau, MN

Welcome!

The InVigor Difference

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





 **BASF**

We create chemistry

2024 InVigor Hybrids

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.

InVigor®

L340PC



- 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).

InVigor[®] L350PC

115.6%

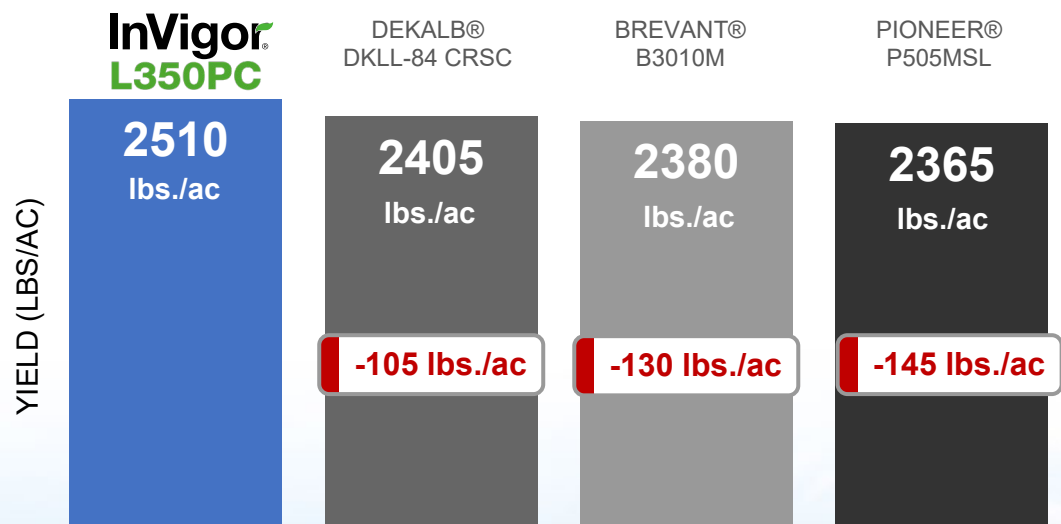
of the checks
(InVigor L255PC and Pioneer[®] 45H33)
in BASF internal trials

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 [InVigor-CanolaYields.us](https://www.invigorcannolayields.us) to see how this hybrid performed in your area.

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

n=38
Source: Demonstration Strip Trials, 2022, n=number of balanced trials.
Number of trials vary by comparison.
Results may vary on your farm due to environmental factors and preferred management practices.
Note: Results were replicated and adjusted for moisture and dockage.

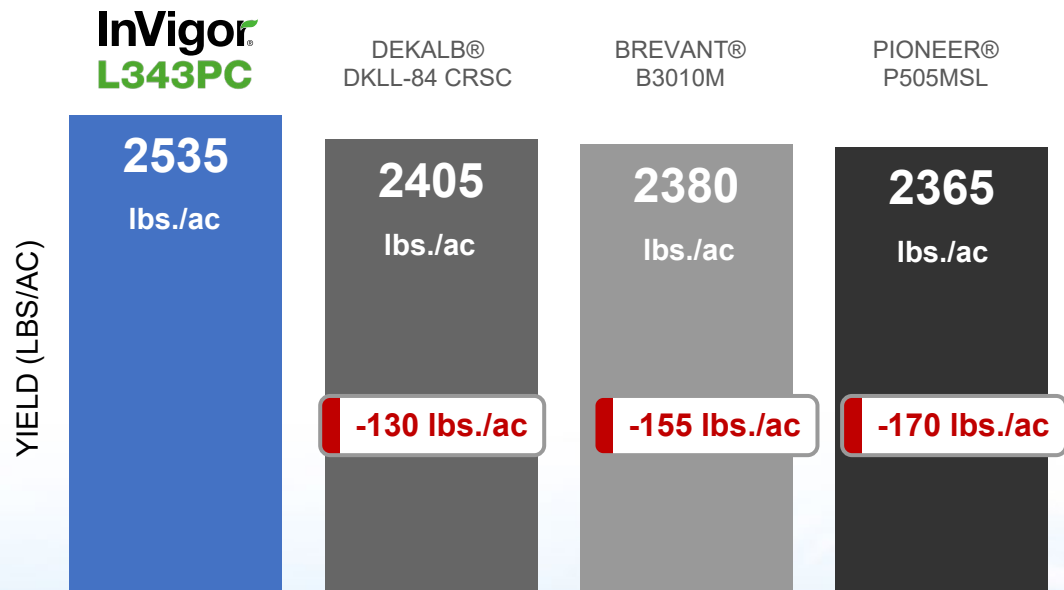
InVigor[®] L343PC

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 [InVigor-CanolaYields.us](https://www.invigorcrops.com/canola/yields) 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.

Growing Zones	Blackleg Rating	Agronomic Trait		Treated with	Also available with:
All	R (resistant)	Pod Shatter Reduction	2 nd Gen. Clubroot Resistance	Helix [®] Vibrance [®]	BUTE [®] start or Lumiderm [™] INSECTICIDE SEED TREATMENT

n=38
Source: Demonstration Strip Trials, 2022, n=number of balanced trials.
Number of trials vary by comparison.
Results may vary on your farm due to environmental factors and preferred management practices.
Note: Results were replicated and adjusted for moisture and dockage.

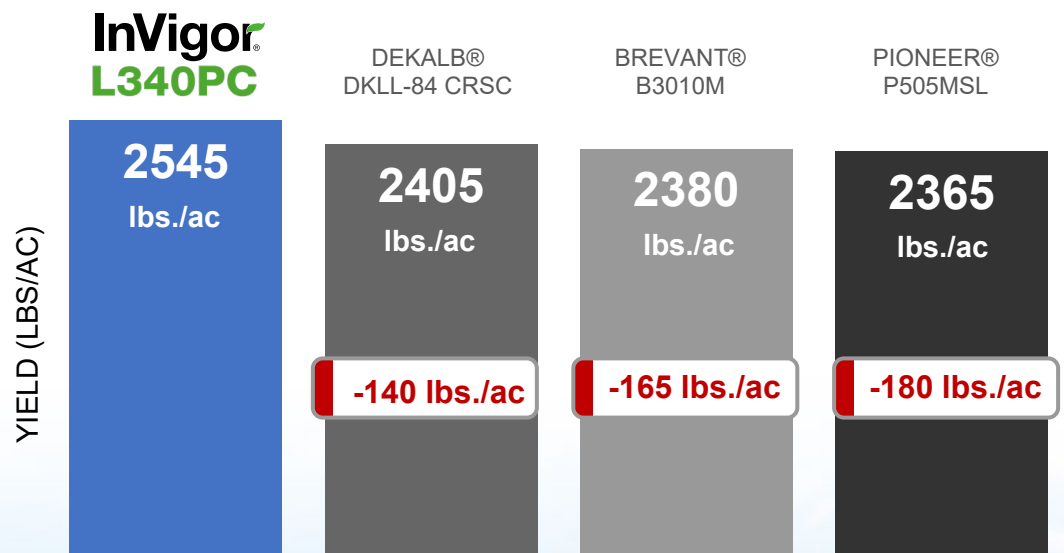
InVigor[®] L340PC

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 InVigor-CanolaYields.us to see how this hybrid performed in your area.

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

n=38
Source: Demonstration Strip Trials, 2022, n=number of balanced trials.
Number of trials vary by comparison. For harvest ratings or more information
Results may vary on your farm due to environmental factors and preferred management practices.
Note: Results were replicated and adjusted for moisture and dockage.

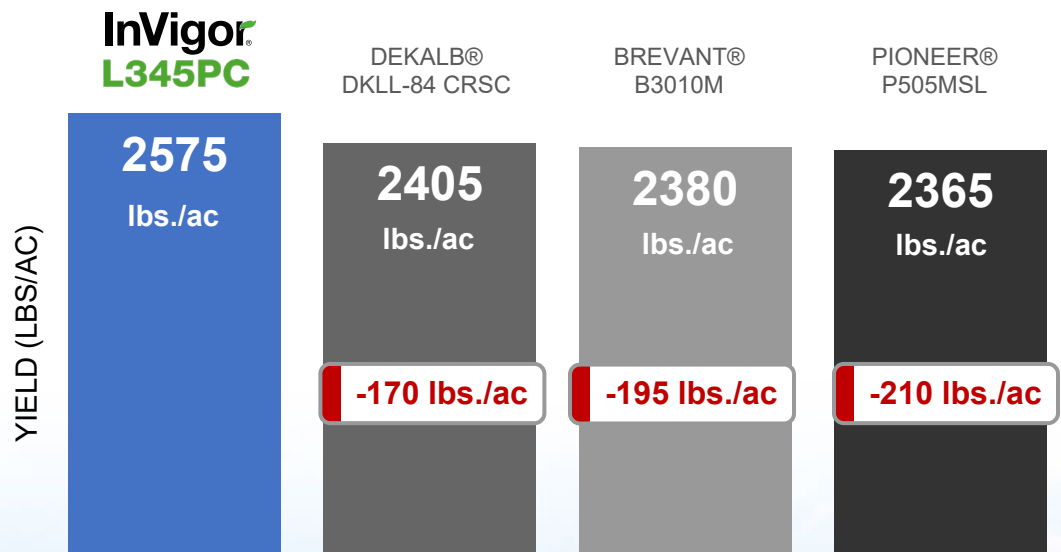
InVigor[®] L345PC

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 InVigor-CanolaYields.us to see how this hybrid performed in your area.

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

n=38

Source: Demonstration Strip Trials, 2022, n=number of balanced trials.

Number of trials vary by comparison.

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

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

InVigor
L233P

108.8% of the checks (InVigor 5440 and Pioneer® 45H29) in 2014 & 2015 WCC/RRC trials

InVigor L233P, Mr. Consistent, is still our earliest maturing hybrid in the lineup. Featuring patented Pod Shatter Reduction technology, this early maturing, high-yielding hybrid provides the harvest flexibility you can count on. One watchout is no clubroot resistance.

choice InVigor[®] LR354PC

114.3%

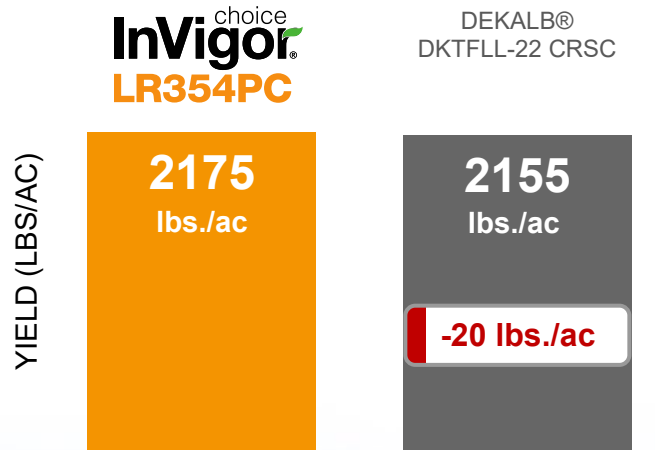
of the checks
(InVigor L255PC and Pioneer[®] 45H33) in
2020 & 2021 BASF internal trials

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 InVigor-CanolaYields.us to see how this hybrid performed in your area.

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.

Internal

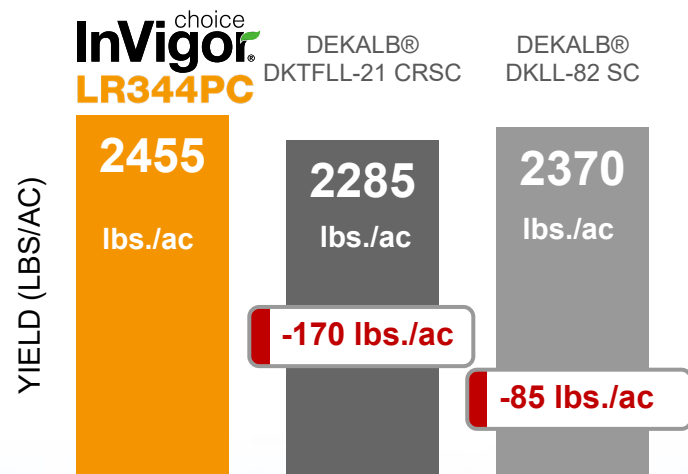
choice InVigor[®] LR344PC

104.1%

of the checks
(InVigor L233PC and Pioneer[®] 45H33) in
2018 WCC/RCC trials

103.6%

of InVigor L233P
(n=12, 2018)



InVigor Choice LR344PC 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 InVigor-CanolaYields.us to see how this hybrid performed in your area.

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=9

Source: InVigor USA Demonstration Strip Trials, 2020, n=number of balanced trials.

Number of trials vary by comparison

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

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

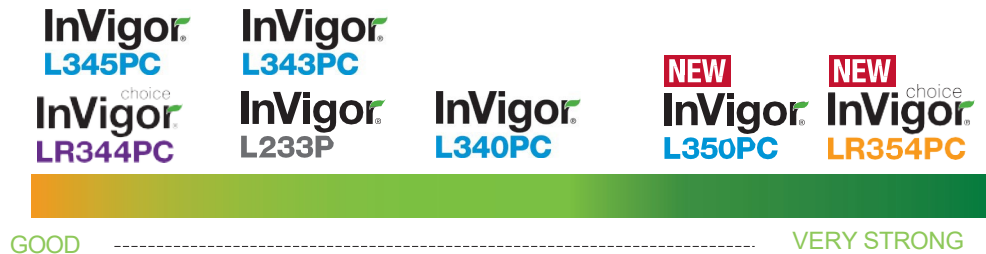
Internal

A Lineup You Can Count On

There's never been a lineup like this. With multiple hybrids to suit your fields, the choice is yours.



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.

Fine tune your hybrid choice at [InVigor-CanolaYields.us](https://www.invigorcannoyields.us)

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
- 2 Target an optimal plant population of 5 to 7 plants/ft²**
- 3 Target a seeding depth of 0.75" to 1.25"**
 - Improved establishment consistency, plant density and yield
- 4 Choose multiple InVigor hybrids on your farm**
- 5 Manage disease preventatively**
 - Scout for high disease pressure
 - Use disease-resistance genetics where needed (i.e. 1st or 2nd generation clubroot-resistant hybrids)

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 become even more important.





We create chemistry

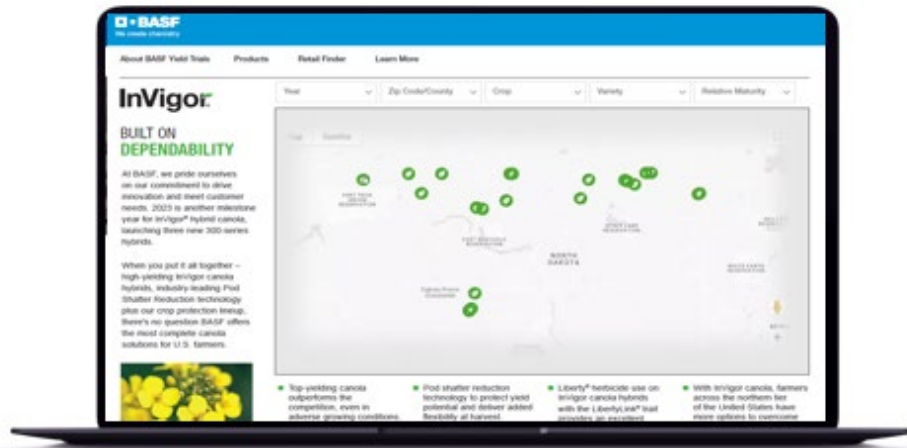
2023 DST Performance Data

2023 InVigor US Trial and Testing Locations



- ★ InVigor DST locations (internal large plot trials)
- ★ Show plot
- ★ Third-party testing locations

InVigor-CanolaYields.us



Anticipated Sept 1ST GO LIVE DATE

- 2-year historical data
- CY 23 harvest data updates in Dec

InVigor
BUILT ON DEPENDABILITY

At BASF, we pride ourselves on our commitment to drive innovation and meet customer needs. 2023 is another milestone year for InVigor® hybrid canola, launching three new 300-series hybrids.

When you put it all together – high-yielding InVigor canola hybrids, industry-leading Pod Shatter Reduction technology plus our crop protection lineup, there's no question BASF offers the most complete canola solutions for U.S. farmers.

- Top-yielding canola outperforms the competition, even in adverse growing conditions.
- Pod shatter reduction technology to protect yield potential and deliver added flexibility at harvest.
- Liberty® herbicide use on InVigor canola hybrids with the LibertyLink® trait provides an excellent means for growers to rotate non-selective herbicide systems to effectively manage weed resistance.
- With InVigor canola, farmers across the northern tier of the United States have more options to overcome growing and harvesting challenges, fight disease pressure and improve profitability.

Share With Us: [Twitter](#) [Facebook](#) [Instagram](#)

Find a Rep | Sustainability | Why Join BASF | We Create Chemistry | Investor Relations
 Product Finder | Innovation | My Career | Strategy & Organization | Urban Living
 Contact Us | Diversity | News Releases | What's New | Smart Energy
 About Us | News & Media | Multimedia | Management and Instruments | Food
 Data Policy | BASF Global | Media Statements | Our Research
 Careers | Executive Profiles | Corporate Initiatives | Our Innovations





 **BASF**

We create chemistry

Seed Treatment

INVIGOR CANOLA SEED TREATMENT OPTIONS



Supplier: Syngenta
Pests: Diseases & flea beetle
Active Ingredients:

- Thiamethoxam (*insecticide*)
- Difenoconazole (*fungicide*)
- Metalaxyl-M (*fungicide*)
- Fludioxonil (*fungicide*)
- Sedaxane (*fungicide*)

Proven, effective seed treatment option for key canola diseases & base flea beetle protection

*Base on all InVigor hybrid canola seed**

Supplier: Corteva
Pests: Cutworm & flea beetle
Active Ingredients:

- Cyantraniliprole (*insecticide*)

Great option for farmers seeking improved flea beetle protection & cutworm protection

Optional choice on all InVigor hybrids

Supplier: Bayer
Pests: flea beetle
Active Ingredients:

- Flupyradifurone (*insecticide*)

Excellent new solution for farmers in 2023 to manage flea beetles.

Optional choice on all InVigor hybrids

| *including some carryover Prosper EverGol treated seed.



■ BASF

We create chemistry

2024 Program & Key Dates

2024 InVigor Grower Early Book Program

Effective October 1, 2023

New for 2024: Increase in early book incentive to \$60 per unit

Participating Brand	Incentive	Activity
InVigor® canola seed	\$60/Unit rebate on InVigor hybrid canola seed	Earn rebate incentive based on InVigor seed ordered through the Retailer Early Booking tool and specifying hybrid, package size and seed treatment option by Dec 8, 2023 , and purchase of InVigor hybrid canola seed based on qualified grower point of sale reporting (POS)

See official program document for full details. Terms and conditions apply.



2024 InVigor Grower Replant Program

Effective October 1, 2023

Participating Brand	Incentive	Activity
InVigor® canola seed	Growers who lost their first planting of InVigor canola seed due to wind, frost, hail, rain, soil crusting, temperature, disease or insects are eligible for replant seed at a reduced price.	<p>75% rebate incentive of the Suggested Grower Price, on the second planting of InVigor canola seed, treated with base seed treatment.</p> <p>100% rebate incentive of the Suggested Grower Price, on the second planting of InVigor canola seed, treated with base seed treatment and Lumiderm or Buteo start.</p>

See official program document for full details. Terms and conditions apply.



2024 Grower Finance Program

Effective October 1, 2023

Participating Brands	Program Period	Minimum Initial Purchase	Incentive	Payment Terms
All Participating BASF Products ¹	October 1, 2023 – March 15, 2024	\$5,000	Fixed 1.99% APR	November 2024
All Participating BASF Products ¹	March 16, 2024 – September 30, 2024	\$5,000	Fixed 2.99% APR	November 2024

¹ Contact John Deere Financial or Rabo Agrifinance for a full list of Participating Brands and locations.

See official program document for full details. Terms and conditions apply.



■ BASF

We create chemistry

InVigor Crop Protection

Canola

Beyond[®] Xtra

Herbicide

Priaxor[®]

Xemium[®] Brand Fungicide

Headline[®] SC

Fungicide

Liberty[®]

Herbicide

Provysol[®]

Fungicide

Veltyma[®]

Fungicide

Endura[®]

Fungicide

Priaxor[®]

Xemium[®] Brand Fungicide

Revytek[®]

Fungicide

Sharpen[®]

Powered by Kixor[®] Herbicide

Obvius[®]

Fungicide Seed Treatment

Seed

Cotyledon

1st Leaf

3rd Leaf

6th Leaf

Rosette

Bolting

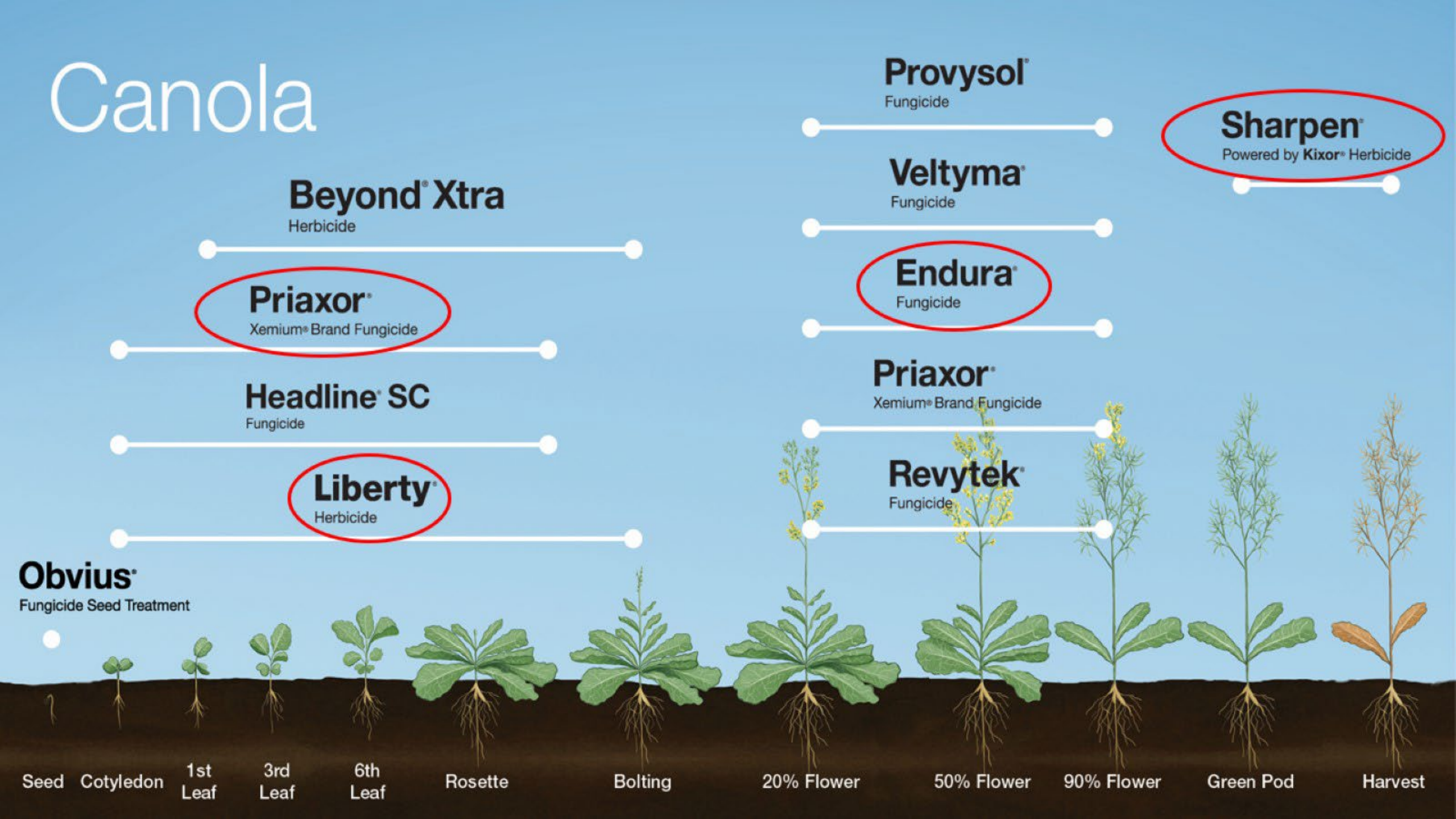
20% Flower

50% Flower

90% Flower

Green Pod

Harvest



Questions



We create chemistry