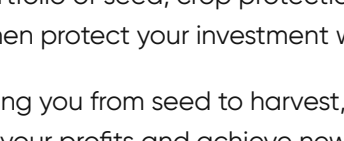


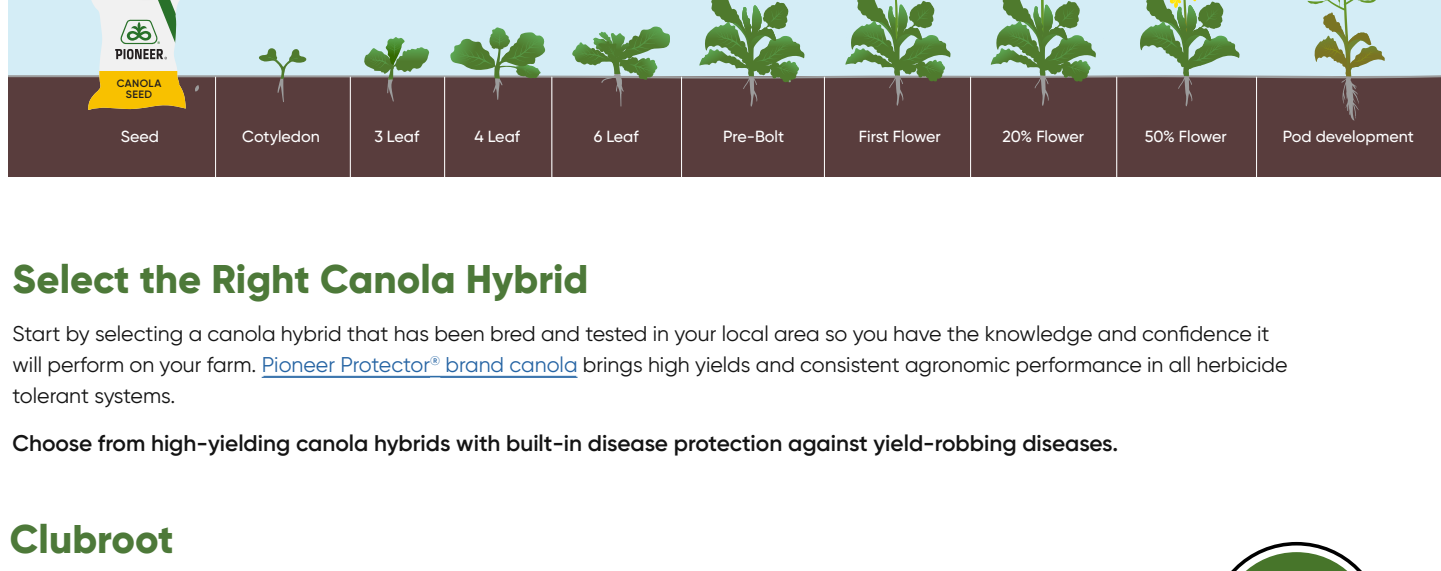
Canola solutions from seed to harvest.



Canola Solutions from Seed to Harvest

Today's farmers know that producing a high-yielding canola crop requires a season-long commitment. By utilizing our full portfolio of seed, crop protection and biologicals from Corteva Agriscience™, you invest in the best seed technology and then protect your investment with the industry's most advanced crop protection solutions.

Covering you from seed to harvest, here are some agronomic tips, management practices and solutions to help you boost your profits and achieve new levels of success in canola.



Select the Right Canola Hybrid

Start by selecting a canola hybrid that has been bred and tested in your local area so you have the knowledge and confidence it will perform on your farm. Pioneer Protector® brand canola brings high yields and consistent agronomic performance in all herbicide tolerant systems.

Choose from high-yielding canola hybrids with built-in disease protection against yield-robbing diseases.

Clubroot

It's important to grow a canola hybrid with clubroot resistance, even if you haven't found clubroot on your farm.

As the first company to introduce Clubroot resistant canola hybrids into the market in 2009, Pioneer Protector® Clubroot resistant hybrids provide high yields and protection against multiple races of clubroot across Western Canada. They also help to prevent disease establishment and minimize clubroot spore levels.

All Pioneer Protector® brand canola hybrids include the Pioneer Protector® clubroot trait, a critical tool against a growing disease threat to Western Canadian farmers.

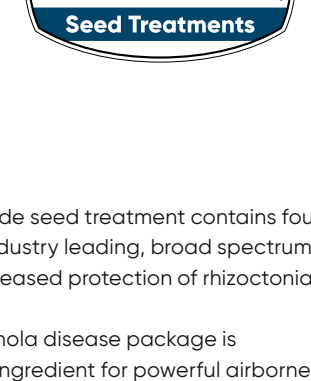


Best recommendation and proactive approach: utilize crop rotation in conjunction with rotating clubroot resistance genetics

Sclerotinia

Pioneer Protector® canola hybrids with the Sclerotinia resistance trait help to manage the risk of sclerotinia infection and achieve high yields by:

- Reducing Sclerotinia incidence by over 65%, as well as reducing overall severity.
- Convenience – protection is planted with the seed.
- Managing risk of Sclerotinia infection over large acres/geographies.
- Peace of mind – providing increased flexibility and insurance when timing fungicide applications.
- Reducing the amount of inoculum returning to the soil.



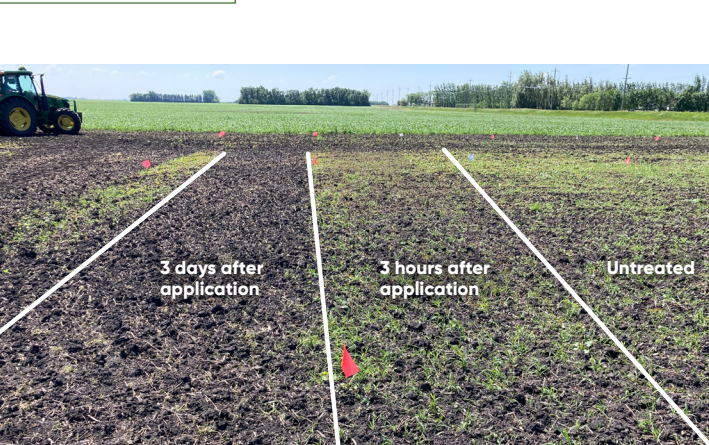
Blackleg

Recommendations for reducing blackleg on your farm

- Choose a canola hybrid with a complete package of yield, disease resistance and agronomic characteristics that are best for your operation.
- Use a seed treatment that protects from blackleg such as Lumiscend™ fungicide seed treatment.
- Review field history and scout often.
- Crop rotation is key – break at least two years between canola crops on the same field.

The Corteva blackleg resistance breeding platform includes:

- A multi-source blackleg resistance strategy.
- Building a solid, adult plant resistance base first for long-term durable protection.
- Resistance involving many genes, giving products stability and performance across different environments.



Cross section of canola stems showing resistance to blackleg vs. susceptible stems

For our full line-up of canola hybrids go to pioneer.com/canolaseed

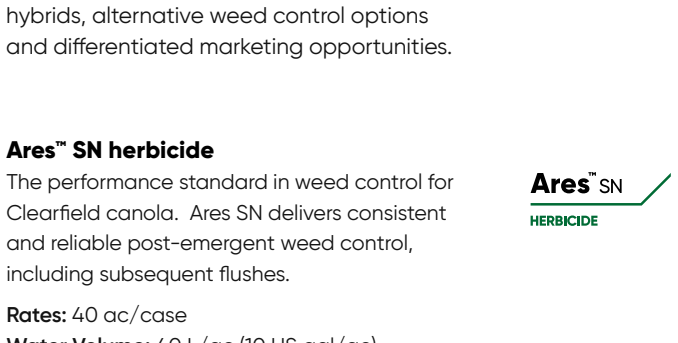
Seed Treatment – Your Seed Investment is Protected

Your canola is protected from key insects and diseases with the industry leading LumiGEN® canola package that contains Lumiderm™ insecticide seed treatment and NEW Lumiscend™ fungicide seed treatment.



Lumiderm™
INSECTICIDE SEED TREATMENT

- Enhanced crucifer and striped flea beetle protection.
- Excellent control of early season cutworms.
- Group 28 chemistry provides an additional mode of effective action for flea beetle and cutworm control.
- Outstanding early season seedling stand establishment, vigor and biomass.
- Up to 35 days of protection through the critical stages of seedling growth.



NEW Lumiscend™
FUNGICIDE SEED TREATMENT

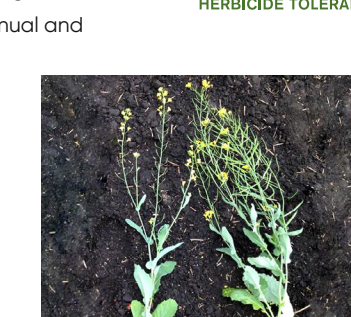
- The New LumiGEN canola fungicide seed treatment contains four effective active ingredients for industry leading, broad spectrum disease protection, including increased protection of rhizoctonia and pythium.
- A component of the LumiGEN canola disease package is Lumiscend, a unique new active ingredient for powerful airborne blackleg protection.
- Lumiscend inhibits the growth of blackleg and protects your crop from emergence through the critical infection period, reducing risk of canker development and yield loss.

Pre-Seed Herbicide – Give Your Canola the Best Start Possible

Prepare your seed bed and control weeds prior to seeding. Don't rely on glyphosate alone. Mix it with another mode of action herbicide for a pre-seed application on early emerging weeds to minimize weed pressure on canola and delay herbicide resistance.

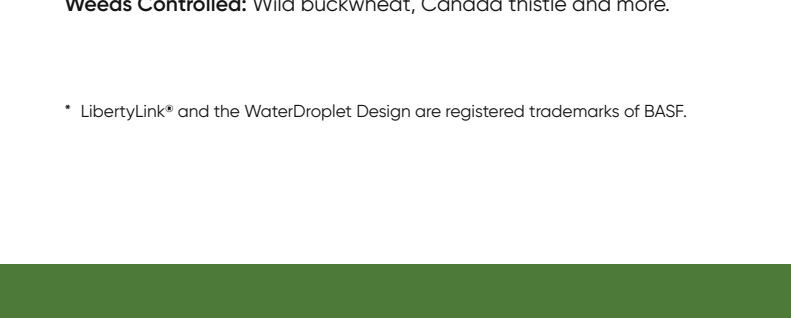
Prospekt™ pre-seed herbicide

- The true pre-seed weed control power of Prospekt herbicide provides:
- Control of a wide range of broadleaf weeds, including cleavers (overwintered and Group 2 resistant biotypes), hemp-nettle, flaxweed, narrow-leaved hawk's beard and many more.
 - Flexibility to spray at 5 gal/ac without giving up weed control performance.
 - 3 modes of action when tank-mixed with glyphosate.



Pre-seed & early crop stage weed control has a greater impact on yield than later stage (in-crop) weed control.

Packaging	2 x 10.8L jugs
Rate	135 ml/ac
Acres Treated	80 ac/jug (160 ac/case)
Water Volume	Ground 20-40 L/ac (5-10 gal/ac)
Timing	Prior to seeding canola
Rainfast	1 hour
Tank Mix Herbicides	VP480, compatible with all forms of glyphosate



Prospekt pre-seed herbicide application vs. untreated

“Early weed removal plays a big part in helping that crop get established quickly with good plant populations.”

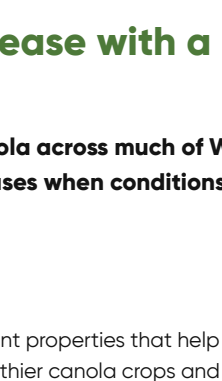
– Britni Keay, Corteva Territory Manager

Choose the Right Solution for Your Weed Control System

A sound weed management plan is critical to protecting your hybrid's yield potential and profitability. Corteva offers weed control solutions for all three herbicide-tolerant canola systems.

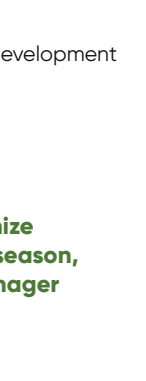
Clearfield® canola

Clearfield® canola offers producers a production system with high-yielding hybrids, alternative weed control options and differentiated marketing opportunities.



Ares™ SN herbicide

The performance standard in weed control for Clearfield canola. Ares SN delivers consistent and reliable post-emergent weed control, including subsequent flushes.



Rates: 40 ac/case
Water Volume: 40 L/ac (10 US gal/ac)

Weeds Controlled: Wild oats, volunteer cereals, wild buckwheat, volunteer non-Clearfield canola, chickweed, cleavers, lamb's quarters, reedroot pigweed and more.

LibertyLink® canola

The LibertyLink trait provides yield and performance with an alternative mode of action for weed resistance management.



Interline® herbicide

- A new option for glufosinate-tolerant canola for broad spectrum weed control.
- Its unique, high-quality formulation delivers outstanding crop safety, excellent flowability and minimal foaming.

Glyphosate-Tolerant canola

Optimum® GLY canola
A new herbicide-tolerant trait technology designed to deliver top yield potential and agronomic trait performance through:

- Enhanced, broad-spectrum annual and perennial weed control.
- Improved crop safety.
- A wider window of application.

Roundup Ready® canola

Roundup Ready canola gives you unsurpassed versatility and outstanding yield potential.

Eclipse™ XC herbicide

- Provides broad-spectrum weed control in glyphosate-tolerant canola, for superior control of wild buckwheat and Canada thistle.
- One-pass solution that offers superior control of a broad spectrum of weeds with excellent crop safety.

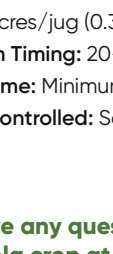
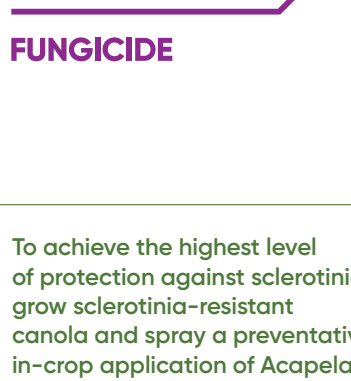
Rates: 40 ac/case, 240 ac/drum
Water Volume: 40 L/ac (10 US gal/ac)

Weeds Controlled: Wild buckwheat, Canada thistle and more.

* LibertyLink® and the WaterDroplet Design are registered trademarks of BASF.

Improve Nitrogen Availability Throughout the Growing Season

Utrisha™ N nutrient efficiency biostimulant provides crops a unique way to capture nitrogen throughout the season, helping plants reach their yield potential.



Registered for use on many crops, including canola, corn, and wheat.



Enhances plant growth and resilience by improving season-long nitrogen availability.



Easy to incorporate into your farming system.
• Standard spray equipment
• Tank-mix flexibility



Maximizes crop potential, offering proven predictable performance.

- The natural bacteria, *Methylobacterium*, fixes nitrogen from the air and converts it into a usable form for the plant.
- Utrisha N provides a sustainable, alternative source of nitrogen that reduces dependency of nitrogen uptake from the soil and ensures the plant has access to nitrogen all season long, without the risk of leaching into water tables or releasing additional greenhouse gases.

Rates: 135 grams/ac, 40 acres/bag Water Volume: Minimum 10 gallons/ac

How Utrisha N works:

- 1 Utrisha N enters the plant through the stomata and colonizes in the leaf cells.
- 2 It then converts N₂ from the air into ammonium, resulting in a constant supply of nitrogen to the plant.

No plant energy is required for this process.

Be Proactive Against Disease with a Premium Foliar Fungicide

Sclerotinia stem rot is widespread in canola across much of Western Canada. The risk of developing this disease increases when conditions are cool and moist and if your plant canopy is dense.

Acapela™ fungicide

Acapela fungicide has one-of-a-kind movement properties that help provide complete coverage and superior protection of sclerotinia to deliver healthier canola crops and higher yield potential.

- Acapela quickly and efficiently surrounds, penetrates, and protects the leaf and stem.
- It is rapidly absorbed, allowing you to spray even when conditions are challenging.
- Acapela is a Group 11 fungicide, making it a good rotational option for resistance management.

Rate: 30 acres/jug (0.323 L/acre)

Application Timing: 20-50% bloom, prior to disease development

Water Volume: Minimum 10 gal/acre

Diseases Controlled: Sclerotinia rot

To achieve the highest level of protection against sclerotinia, grow sclerotinia-resistant canola and spray a preventative in-crop application of Acapela fungicide.

If you have any questions about how to maximize your canola crop at any stage of the growing season, please reach out to your Corteva Territory Manager or Pioneer Sales Representative

Download the Corteva Agriscience Field Guide App

Download the Pioneer Seed Guide

