



**Clearfield®**  
Production System for Canola

**HAVE CONCERNS?  
WE HAVE A VARIETY  
OF ANSWERS.**



The 2019 **Clearfield** canola Fitting Guide.



# BUILT BY SCIENCE. BACKED BY GROWERS.

Weeds and volunteer canola present in canola fields lower the grade and yield potential of the crop. Left uncontrolled, seeds spread throughout fields to further affect subsequent crops. The **Clearfield**® Production System for canola offers high-performing canola hybrids as a solution to manage these challenges and is the only system that provides control of flushing weeds, including volunteer canola and cleavers. By employing **Clearfield** canola hybrids, growers can achieve greater yields in their canola, as well as follow crops, while also reducing the development of resistant weed varieties.





## YOU NEED PERSISTENCE TO FIGHT RESISTANCE.

Canola rotation is important for farm sustainability; it reduces the risk of particular nutrients being depleted from the soil and helps reduce weeds. A 1-in-3 or -4 year canola rotation is optimal when it comes to timing your rotation and adding the **Clearfield** Production System for canola only strengthens these benefits.

- Manages volunteer canola from other systems – LibertyLink® and RoundUp Ready®
- Controls glyphosate-resistant weeds
- The only system that controls flushing weeds
- Change resistance genetics for better management of blackleg and clubroot
- Ideal rotation choice for canola when growing glyphosate-tolerant and Roundup Ready soybeans



# THERE'S A FIT FOR EVERY FIELD.

The **Clearfield®** Production System for canola has numerous dedicated seed partners investing in new technologies that offer different maturities, resistance to disease, increased standability for straight cutting and superior agronomic traits.

## Brevant™ seeds for Nexera™ canola contracts:

### Nexera 2024 CL

- Improved yield potential
- Good early-season vigour
- Multi-gene blackleg resistance
- Excellent standability
- Pod-shatter reduction

### Nexera 2028 CL **NEW**

- Improved yield potential
- Good early-season vigour
- Multi-gene blackleg resistance
- Excellent standability
- Clubroot resistance

### Nexera 2026 CL

- Improved yield potential
- Good early-season vigour
- Multi-gene blackleg resistance
- Excellent standability

## Pioneer® brand canola hybrids:

### PHL 46H75 CL

- Excellent early growth
- Outstanding standability and harvestability
- Resistant to blackleg
- Good straight-cut rating

### PHL 45H76 CL

- Mid-maturity hybrid
- Very good standability
- Resistant to blackleg and fusarium wilt

## Proven® Seed varieties:

### Proven PV 200 CL

- Mid-season high-yielding hybrid
- Strong resistance to blackleg
- Excellent standability rating

## BrettYoung™ canola varieties:

### BrettYoung 5535 CL

- Blackleg resistant
- Very good standability
- Mid-maturity
- Excellent yield

### BrettYoung 5545 CL

- Blackleg resistant
- Excellent standability
- Mid-maturity
- Excellent yield

## Canterra Seeds:

### CS2200 CL

- Great standability
- Strong resistance to blackleg
- Suited to all growing zones

### CS2500 CL **NEW**

- Excellent yield potential
- Multi-gene blackleg resistance
- Excellent lodging resistance

## Cargill® canola:

### Victory® V33-1CL **NEW**

- Multi-gene blackleg resistance
- Late maturity
- Excellent standability





# FLUSHING WEEDS AND VOLUNTEER CANOLA? WE'VE GOT THE SOLUTION FOR THEM ALL.

Ares<sup>®1</sup> herbicide was specifically developed for the **Clearfield<sup>®</sup>** Production System to offer consistent and reliable control of the tough grassy and broadleaf weeds other canola systems can't handle, including subsequent flushes.

- Superior control of volunteer canola (including resistant biotypes), cleavers, wild buckwheat and lamb's quarters
- Wide window of application on both crop and weeds
- User-friendly liquid formulation

## Active ingredients

- Imazamox – Group 2
- Imazapyr – Group 2

## Water volume

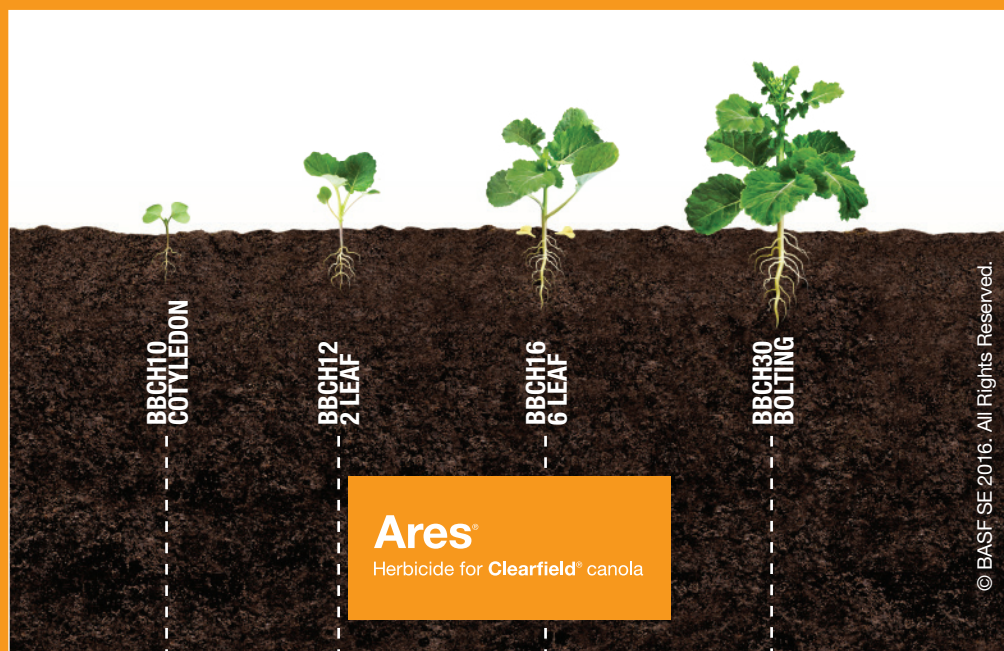
- Ground application only  
20 to 40 L/ac (5 to 10 gal/ac)

## One case will treat 40 acres and contains

- 9.8 L jug of Ares<sup>1</sup> herbicide
- 8.1 L jug of Merge<sup>®</sup> adjuvant

## Rainfastness

- 2 hours





**Clearfield®**  
Production System for Canola

**Ares®**

Herbicide for **Clearfield®** canola

## Weed control with Ares herbicide.



**Cleavers**

20 days after application

Source: **AgSolutions®** Performance Trials, DeBolt, AB, 2011

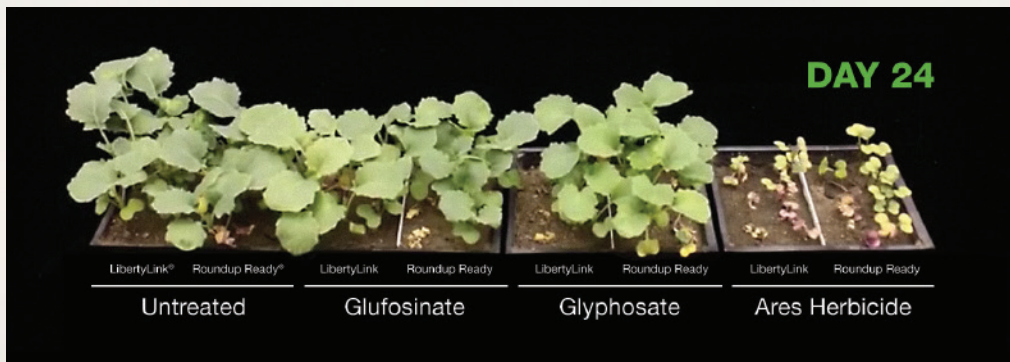


**Volunteer canola**

19 days after application

Source: **AgSolutions** Performance Trials, Carlton, SK, 2011

## Watch Ares in action.



**DAY 24**

LibertyLink® Roundup Ready®    LibertyLink Roundup Ready    LibertyLink Roundup Ready    LibertyLink Roundup Ready  
**Untreated                      Glufosinate                      Glyphosate                      Ares Herbicide**

To witness the power of Ares<sup>1</sup>,  
visit [clearfieldcanola.ca/aresinaction](http://clearfieldcanola.ca/aresinaction)

<sup>1</sup> Ares is not registered for use in the Peace region of Alberta or British Columbia.  
Solo® ADV herbicide from BASF can be offered as an alternative treatment in this region.





# TEAM UP AGAINST CLEAVERS.

Facet™ L herbicide from BASF is the newest technology for managing cleavers in canola. In addition to compatibility with the **Clearfield®** Production System for canola, Facet L provides flexible control of cleavers by adding additional modes of effective action to target cleavers and reduce resistance development. This flexibility also applies to its ability to control weeds early in the season as well as enhancing the ability of its tank-mix partners, such as Ares®<sup>1</sup> herbicide.

- Superior control of cleavers (including resistant biotypes)
- Widest window of crop application, from pre-seed to 6-leaf
- Versatile rate range
- Excellent tank-mix partner with Ares<sup>1</sup>, Liberty® and Roundup® herbicides

## Active ingredient

- Quinclorac – Group 4 and 26

**One case will treat 65 to 160 acres, depending on rate used, and contains**

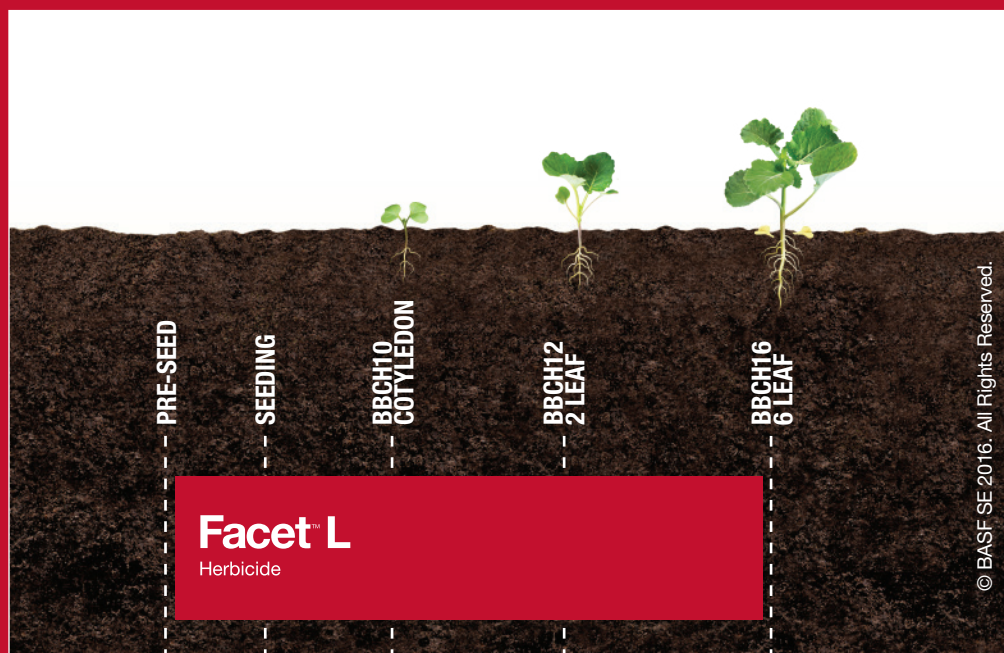
- 2 x 9.07 L jugs of Facet L herbicide

## Water volume

- 40 L/ac (10 gal/ac)

## Rainfastness

- 6 hours





## A guide for Facet L herbicide timing and the proper rates for cleaver control in canola.

Timing	Pre-seed		In-crop	
When to Recommend	<ul style="list-style-type: none"><li>Over-wintered cleavers and/or high pressure early in season</li><li>Longer residual throughout the season (4 to 8 weeks)</li></ul>		<ul style="list-style-type: none"><li>Missed early-season herbicide application or customer prefers to spray in-crop</li><li>Second flush of cleavers in-crop</li><li>High potential for resistant biotypes (or confirmed resistance) of cleavers</li></ul>	
Crop	Clearfield canola		Clearfield canola	
Rate	Standard	High	Standard	High
Acres/Case	80	64	106	80
When to Recommend	Low cleaver pressure; smaller than 2 whorls; comfortable with less residual	Medium to very high cleaver pressure; 2 to 3 whorls; looking for more residual	Light to medium cleaver pressure; cleavers are 1 to 2 whorls	Medium to high cleaver pressure; cleavers are <3 whorls; Recommended if suspected Group 2-resistant cleavers might be present
Adjuvant	Merge® adjuvant 0.5% v/v		Merge 0.5% v/v	
Tank-mix Order	pH adjuster/AMS (optional) + Facet L + glyphosate + Merge		Clearfield Production System herbicide + Facet L + Merge	
Recommended tank-mix rates with Ares <sup>1</sup> in Clearfield canola: Ares <sup>1</sup> (0.24 L/ac) <sup>2</sup> with Facet L (0.17-0.23) <sup>2</sup> and Merge (0.5% v/v) <sup>2</sup> .				

<sup>1</sup> Ares is not registered for use in the Peace region of Alberta or British Columbia.

Solo® ADV herbicide from BASF can be offered as an alternative treatment in this region.

<sup>2</sup> Refer to the label for specific rates and weeds controlled.



# UNDERSTANDING THE CLEARFIELD COMMITMENT.

- The evergreen **Clearfield**® Commitment is an agreement between the customer and BASF that serves as a license, allowing the customer to access the benefits of the **Clearfield** trait.
- New **Clearfield** canola growers will be required to sign a **Clearfield** Commitment for the 2019 season. For those growers who have signed a **Clearfield** Commitment for canola from 2015 to 2018, no further action is required as the agreement is evergreen
- The **Clearfield** Commitment for canola preserves the integrity of the **Clearfield** trait, delivering the same level of germination, vigour and yield potential
- Supports the development and ongoing research of new **Clearfield** canola hybrids with our seed partners.

## FAQ

### Who needs to sign a **Clearfield** Commitment form?

- New **Clearfield** growers looking to grow **Clearfield** canola, who do not have a Commitment from 2015 to 2018

### What information is required to complete the **Clearfield** Commitment?

- Grower name, farm name, address, telephone number, province
- Sales representative information
- Retailer information
- Grower and witness signatures

### What annual fees are involved when purchasing **Clearfield** canola seed?

- There is an annual fee of \$70 per bag when seed is purchased, a portion of which is reinvested to support ongoing research and development of future **Clearfield** canola hybrids

### How to register and/or sign a Commitment?

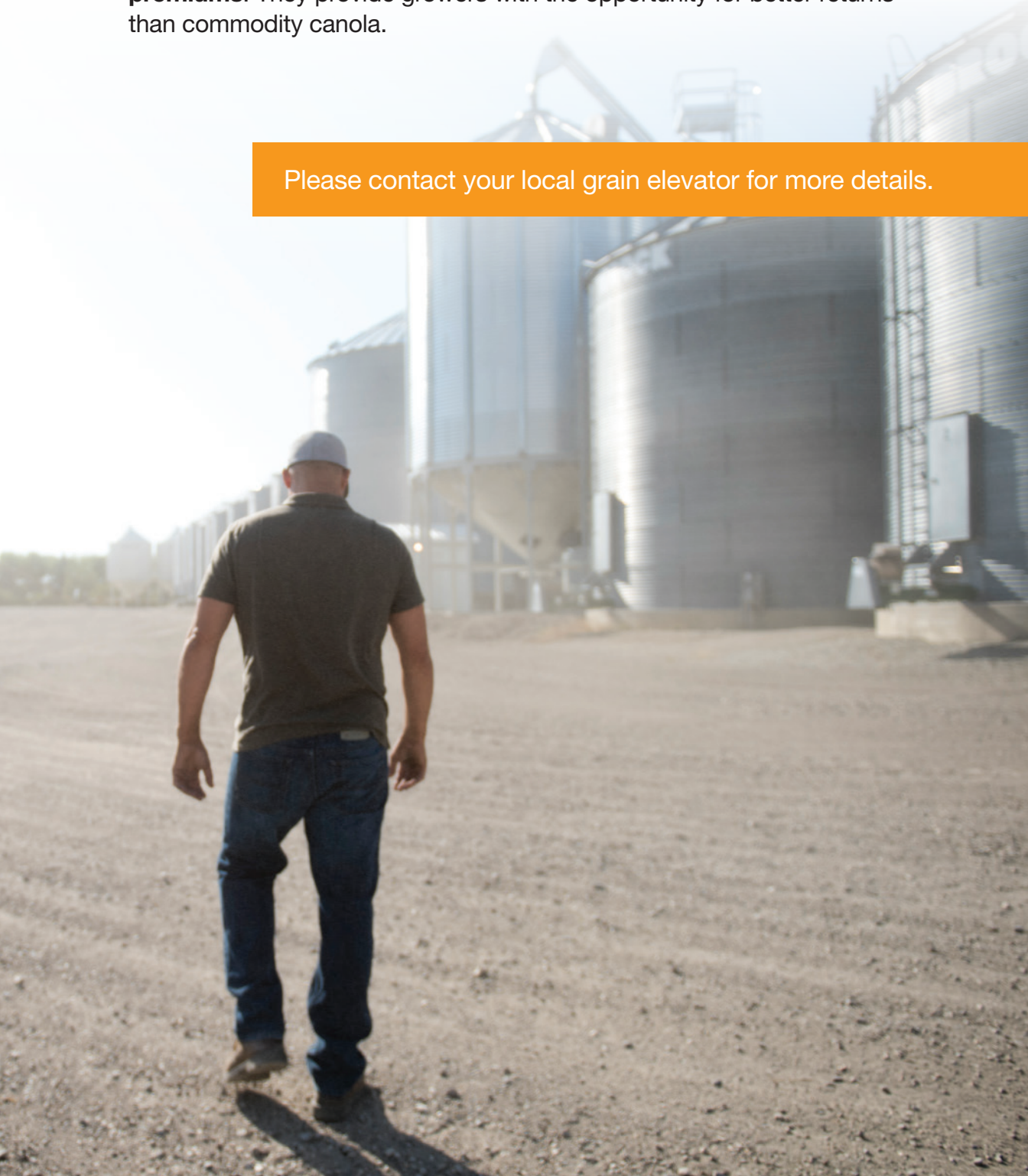
- Contact your **Clearfield** canola retailer
- Call **Clearfield** canola Customer Care at 1-866-420-2673
- Email: [info@clearfieldcanola.ca](mailto:info@clearfieldcanola.ca)



# GROWING ROI WITH CLEARFIELD CANOLA.

As if all of the inherent benefits of the system weren't enough, **Clearfield** canola growers can also take advantage of exclusive **specialty contract premiums**. They provide growers with the opportunity for better returns than commodity canola.

Please contact your local grain elevator for more details.





For more information on the  
**Clearfield** Production System for canola,  
visit **[www.clearfieldcanola.ca](http://www.clearfieldcanola.ca)**,  
call **Clearfield** canola Customer Care  
at 1-866-420-2673 or contact us  
via email at [info@clearfieldcanola.ca](mailto:info@clearfieldcanola.ca)

### **Always read and follow label directions.**

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