

EASTERN CANADA

FIELD GUIDE 2026



Innovation at Corteva Agriscience

OUR PURPOSE:

To enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

Corteva Agriscience is founded on a rich tradition of innovation. We constantly challenge ourselves on how we can bring all our platforms together to offer farmers integrated solutions to their most pressing challenges. We believe in the power of collaboration, inviting in ideas from a wide variety of sources, and developing collaborations with universities and NGOs across the globe.

Food is the most basic human need and the engine of economic development. Yet while our world is growing, our food resources are not. As a champion of responsible agriculture, this is our challenge. Our response to the challenge is innovation.

Key Sources of Differentiation



Targeted Breeding



Environmental Impact and Sustainability



Digital Tools



Integrated Solutions

QUICK FACTS

Our open and agile agriculture research organization brings together worldwide resources:



5,000 scientists and researchers



2 innovation hubs:
• Johnston, Iowa
• Indianapolis, Indiana



150+ multi-platform R&D facilities in **32** countries



100+ crops

CLEAR INNOVATION PRINCIPLES



Market driven



Disciplined and accountable



Built to differentiate



Global yet local



Focused on productivity

INDUSTRY-LEADING CAPABILITIES

Seed

- Genomics and breeding systems
- Biotech
- Advanced phenotyping

Crop Protection

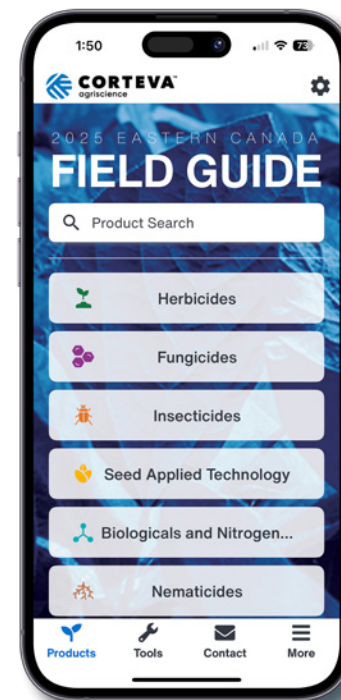
- Chemistry discovery
- Formulation and process chemistry
- Natural products

DOWNLOAD THE CORTEVA AGRISCIENCE FIELD GUIDE APP

The Corteva Agriscience Field Guide app showcases our expanded portfolio of Canadian crop protection products and is designed to help you get the most out of every acre. It's a quick access, easy and user-friendly tool that assists in choosing the right high performing products as well as the right order to tank-mix them.

AT THE CLICK OF A BUTTON HAVE ACCESS TO:

- Crop protection options
- Herbicide product quick facts
- Key product use information
- Insects and disease control solutions
- V/V% Calculator
- Links to online guides and info on our digital tools
- Enlist E3™ soybeans Program Approach Tool
- **NEW** Horticulture crop protection product section



Download our new Field Guide App. Scan the code with your mobile device camera to find out more and easily download:

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nematicide BY CROP

Carrots



Salibro™ 4

Cucurbits



Salibro™ 4

Grapes



Salibro™ 4

Cherries



Salibro™ 4

Potatoes



Salibro™ 4

Strawberries



Salibro™ 4

Tomatoes



Salibro™ 4

Tree Nuts



Salibro™ 4

Salibro™

Reklemel™ active

NEMATOCIDE

Salibro™ nematocide with Reklemel™ active is a novel sulfonamide nematocide with a unique mode of action against plant-parasitic nematodes.

WHY USE SALIBRO™ NEMATOCIDE?

- True nematocide with no insecticidal nor fungicidal activity, making it a highly effective and selective nematode control solution
- More favorable environmental profile compared to conventional treatments
- Protects crop roots without compromising beneficial insects that provide useful functions in the crop root zone
- Core component of an integrated nematode management program

NEMATODES CONTROLLED

- Root-knot nematodes (*Melodogyne spp.*)



CROPS

Carrots

Cherries

Cucurbits

Grapes

Potatoes

Strawberries

Tomatoes

Tree nuts

RATES AND ACRES TREATED

Rates:

- **Carrots, Potatoes and Tomatoes:** 0.90* – 1.81 L/ac
- **Cucurbits*:** 0.45 – 0.68 L/ac
- **Tree Nuts and Cherries:** 1.81 L/ac
- **Strawberries*:** 0.45 – 0.90 L/ac
- **Grapes:** 1.81 L/ac

Water volume:

55 L/ac (15 US gal/ac)

PACKAGING

Case:

2 x 9.6 L jugs

APPLICATIONS

Potatoes, Carrots, Cucurbits, Tomatoes and Strawberries:

- Pre-plant incorporated or broadcast followed by soil incorporation
 - Uniformly apply over the field and incorporate mechanically or through irrigation to a depth of 10–15 cm with incorporation equipment to ensure even distribution
 - For maximum residual efficacy, pre-plant incorporate within 7 days prior to planting.
- In furrow (potatoes only)
 - Direct applications into the open furrow and cover with soil
- Pre-plant, At-plant or Post-plant soil drench (strawberries only)
- Chemigation
 - See product label for specific application rates. Apply in sufficient water and of sufficient duration to apply the labeled rate evenly to the entire treated area.

Tree Nuts, Grapes and Cherries:

- Pre-plant incorporated, Post-plant soil drench or Post-plant drip (Grapes only)
 - Apply to newly planted vines or trees or those previously trained to drip or micro sprinkler irrigation.
 - Time the applications to coincide with beginning of root flush.
- Chemigation
 - See product label for specific application rates. Apply in sufficient water and of sufficient duration to apply the labeled rate evenly to the entire treated area.

Soil Health

Salibro™ nematocide with Reklemel™ active is a selective, effective new generation nematocide that controls plant parasitic nematodes including root-knot nematodes. It has a unique mode of action and has an excellent fit with precision application technology important to growers. Salibro helps support a healthy crop root system, by protecting against plant parasitic nematode damage, which is critical to maximizing water and nutrient utilization and providing the opportunity of realizing yield potential in the crop.

Crop rotation

Anytime: carrots, potatoes

14 days: barley, wheat, oats, corn, soybeans, chickpeas, field peas, lentils, sunflowers and flax

Pre-harvest interval

- The PHI for cucurbits, tomatoes and strawberries is 1 day.
- The PHI for grapes and bearing cherries is 3 days.
- The PHI for tree nuts is 30 days.
- The PHI for potatoes is 40 days.
- The PHI for carrots is 65 days.
- The PHI for non-bearing cherries is 365 days.

* Suppression

seed treatments BY CROP

Soybeans



Lumisena™
fungicide seed treatment 6

LumiTreo™
fungicide seed treatment 7

Lumiante™
fungicide seed treatment 7

Lumiderm™
insecticide seed treatment 8

Corn



Lumiscend™ Pro
fungicide seed treatment 9

Lumialza™
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Lumivia™
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Win the Start.

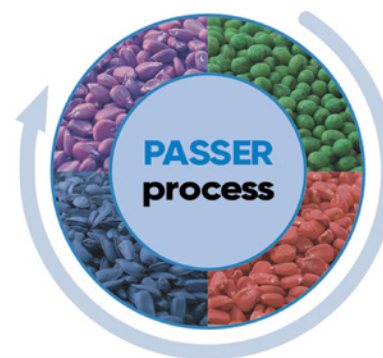
SEED APPLIED
TECHNOLOGIES

Corteva Agriscience Seed Applied Technologies Portfolio is setting the new standard in seed treatment.

Corteva Agriscience is dedicated to the discovery, development, and delivery of the industry's highest-quality seed treatments. Our solutions are rigorously tested and locally proven to ensure exceptional performance and reliability.

Why choose Corteva?

- Solving On-Farm Challenges
- Maximizing Seed Flow and Planting Precision
- Improving Protection and Vigour
- Locally Testing
- Discovering Novel Actives
- Industry-Leading Support & PASSER Evaluation Process



Plantability

Application

Stewardship

Seed Safety

Efficacy

Regulatory



LumiGEN® seed treatments are exclusive to the seed brands of Corteva Agriscience, and represent the high performing, industry leading seed applied technologies that are available on Pioneer® seed brand genetics.

Designed for our genetics. Verified on our genetics. Proven in the field with our genetics.

To learn more about
Seed Applied Technologies,
speak to your local
Corteva representative.



Lumisena™

FUNGICIDE SEED TREATMENT



Win the Start with the best Phytophthora protection.

LUMISENA™ FUNGICIDE SEED TREATMENT ADVANTAGES

- Most advanced seed applied technology to **protect against Phytophthora**
- Improves soybean emergence, vigour and root growth to **maximize stand and yield potential**
- The only seed applied technology that delivers **residual protection** across multiple stages of the Phytophthora pathogen's life cycle
- Lumisena™ fungicide seed treatment is a Group 49, a **new class of chemistry** for superior disease protection

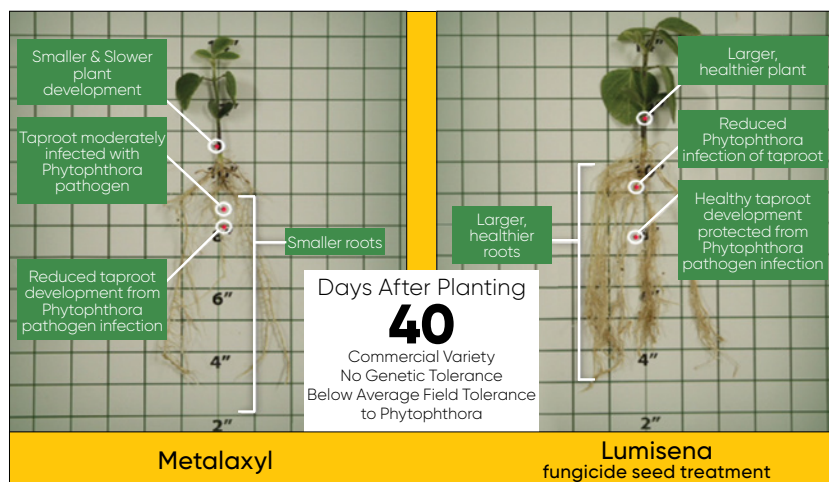
MOST ADVANCED CONTROL OF Phytophthora FOR SOYBEANS

- Phytophthora is the #1 disease in soybeans.
- Lumisena fungicide seed treatment provides the best protection in the industry against Phytophthora.
- It improves plant stands and crop vigour to increase soybean yield potential.

The first six weeks are important for a soybean crop's yield potential.

Lumisena is the only seed-applied technology that delivers residual protection across multiple stages of the Phytophthora pathogen's life cycle:

- Preventative
- Eradicative
- Curative
- Antisporulant

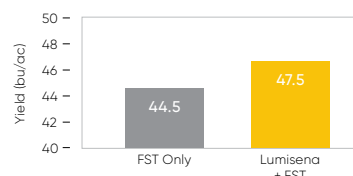


CROPS Soybeans

Lumisena™ fungicide seed treatment provides the best protection against Phytophthora for healthier, more vigorous soybean stands and higher yield potential.

LUMISENA™ ENHANCES EMERGENCE AND VIGOUR TO MAXIMIZE YIELD POTENTIAL

SOYBEAN RESEARCH AUTHORIZATION TRIAL RESULTS



2017 Lumisena Yield Data - Canada, 8 Trial locations,
2 Reps per location, Moderate to High Pressure

Lumisena Yield Advantage

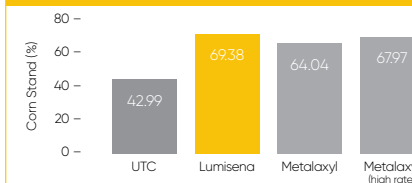
+3.0 BU/AC
In demo trials compared to competitor FST treatment

In multi-year, on-farm seed treatment research trials under Phytophthora pressure, Lumisena improved plant stands by increasing the number of plants per acre versus the existing industry-standard seed treatment.



EFFICACY - PLANT STAND COUNT DATA

Soybean Plant Stand counts when Phytophthora is present



Seed Applied Technology Research Trials Data from 2011-2015, Average of 13 Trials

- Lumisena offers a new mode of action that controls Phytophthora far better than previous industry-standard seed treatments.
- When you use Lumisena fungicide seed treatment you significantly improve your soybean plant stand, enhancing early-season plant growth and increasing yield potential.

SEED APPLIED TECHNOLOGY

GROUP	GROUP	GROUP	GROUP	GROUP
3	4	11	22	49



Win the Start with the most advanced protection against Phytophthora.

WHY USE LUMIGEN® SOYBEAN FUNGICIDE SEED TREATMENT?

- A complete solution to early season disease complexes including Pythium, Rhizoctonia, and Fusarium, with **industry leading protection against phytophthora root rot**
- **Accelerated crop growth.** LumiTreo™ fungicide seed treatment provides the most advanced protection against Phytophthora and Pythium
- **A unique combination of 5 highly effective modes of action (3,4,11,22,49)**, including Oxathiapiprolin & Ethaboxam, which provides unmatched control of Phytophthora root rot and premium protection against Pythium for improved soybean crop health
- LumiGEN soybean fungicide seed treatment **translocates through the seed, root system, and aerial portions of the soybean plant**, providing above- and below-ground seedling disease protection



Untreated



LumiGEN® soybean fungicide seed treatment

CROPS
Soybeans

LumiGEN® soybean fungicide seed treatment, featuring LumiTreo™ and Lumiante™, provides the best, most advanced protection against phytophthora and pythium for healthier, more vigorous soybean stands and higher yield potential.

LumiTreo™

FUNGICIDE SEED TREATMENT

LumiGEN soybean fungicide seed treatment provides unmatched protection of Phytophthora root rot and helps improve overall soybean crop health.

LumiGEN soybean fungicide seed treatment provides excellent disease protection

- Damping off, seedling blight, seed rot, and root rot caused by Fusarium spp.
- Rhizoctonia solani
- Phytophthora soljae
- Pythium
- Seed-borne Phomopsis
- Seed rot fungi such as Aspergillus and Penicillium

LumiTreo™ contains Oxathiapiprolin (Group 49), a unique active exclusive to Corteva Seed Applied Technology products, providing best-in-class protection against Phytophthora.

Lumiante™

FUNGICIDE SEED TREATMENT

Lumiante™ fungicide seed treatment controls early season soybean diseases Pythium spp, Metalaxyl-resistant Pythium spp. and Phytophthora spp.

Lumiante soybean fungicide seed treatment provides excellent disease protection

- Lumiante provides excellent protection against soilborne soybean pathogens to protect against early season disease to support uniform and healthy stand establishment.
- Adds a fifth mode of action to our LumiGEN® soybean FST package for additional disease protection and resistance management.
- Delivers premium Pythium protection by providing a differentiated mode of action than metalaxyl (Group 4).
- Helps promote early season vigour and solid root structure.

Lumiante™ contains Ethaboxam, a Group 22 fungicide, that delivers premium Pythium protection.



Pioneer® brand soybean genetics are protected with LumiGEN soybean fungicide seed treatment. This product is exclusive to Pioneer® soybean seed.

SEED APPLIED TECHNOLOGY

GROUP
28

Lumiderm™

INSECTICIDE SEED TREATMENT

Win the Start with early season insect control.

LUMIDERM™ INSECTICIDE SEED TREATMENT ADVANTAGES

- **Unmatched control.** Lumiderm delivers superior defense against early pests, offering extended protection against key insects including soybean aphids and bean leaf beetles
- Excellent seedling protection delivers a **uniform, healthy stand** to maximize yield potential
- A **new mode of action** with a favourable environmental profile
- Simplifies your seed treatment decisions

INDUSTRY LEADING PROTECTION AGAINST
EARLY SEASON INSECT PESTS WITH A
FAVOURABLE ENVIRONMENTAL PROFILE

- Provides extended protection against key early season insects: soybean aphid, bean leaf beetle, seed corn maggot, European chafer, Japanese beetle, white grub, wire worm and cutworms
- Contains a unique Group 28 insecticide, a non-neonic seed treatment option
- Minimal impact on the environment, beneficial insects and pollinators when used in accordance with the product label¹



Ridgetown, ON

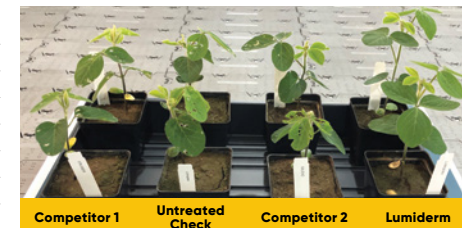
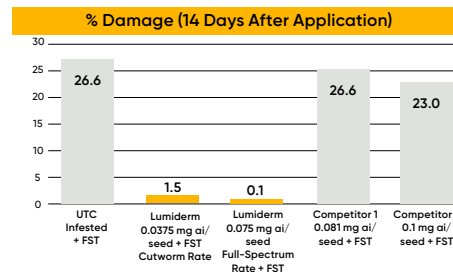
Application Rates		
Cutworm Rate	0.0375-0.075 mg ai/seed	Cutworms, Seedcorn maggot, Japanese beetle, European chafer, Masked chafers, Wireworms
Full-Spectrum Rate	0.075-0.200 mg ai/seed	Soybean aphid, Bean leaf beetle, Cutworms, Seedcorn maggot, Japanese beetle, European chafer, Masked chafers, Wireworms

¹In line with Integrated Pest Management and Good Agricultural Practices, insecticide applications should be made when pollinators are not foraging to avoid unnecessary exposure.

CROPS
Soybeans

Lumiderm™ insecticide seed treatment complements Lumisena™ fungicide seed treatment and results in healthier, more abundant soybean stands.

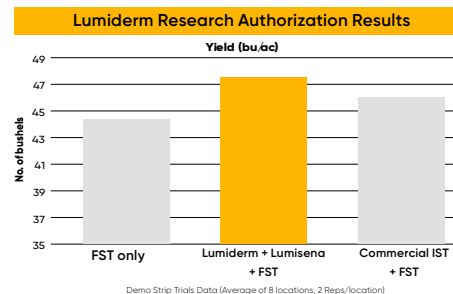
LUMIDERM™ IS NOW REGISTERED FOR INDUSTRY LEADING CONTROL OF CUTWORMS IN SOYBEANS



EXCELLENT SEEDLING PROTECTION DELIVERS MORE UNIFORM, HEALTHY SOYBEAN STANDS

To maximize yield potential, insect and disease protection go hand in hand.

Take a look at the powerful protection of Lumiderm and Lumisena™ fungicide seed treatment combined.



LUMIDERM + LUMISENA™ YIELD ADVANTAGE

+1.5 BU/AC In demo trials compared to standard IST +FST treatment.



Lumiderm insecticide seed treatment complements Lumisena fungicide seed treatment and completes the soybean protection package. Add Lumiderm to maximize your soybean protection.

SEED APPLIED TECHNOLOGY

GROUP	GROUP	GROUP
4	7	22

Lumiscend™ Pro



Corn

FUNGICIDE SEED TREATMENT

Win the Start with early season disease protection.

The LumiGEN® corn fungicide seed treatment, including new Lumiscend™ Pro fungicide seed treatment, is a unique combination of four active ingredients to deliver multiple modes of action protection from early season seed and soil-borne diseases, adding a new level of protection against Rhizoctonia and Pythium species.

DISEASES:

- Pythium
- Phytophthora
- Fusarium
- Corn head smut

SEED APPLIED TECHNOLOGY

Biological

Lumialza™



Corn

NEMATICIDE SEED TREATMENT

Win the Start with powerful protection from nematodes.

WHY USE LUMIALZA™ NEMATICIDE SEED TREATMENT?

- Provides protection from key **yield-robbing nematodes**
- Lumialza nematicide seed treatment provides **over 80 days of protection** by creating a large zone of protection of the root zone
- Enhances plant **vigour and yield potential**

NEMATODE PROTECTION

Key species of corn nematodes

WHAT IS LUMIALZA™ NEMATICIDE SEED TREATMENT?

- Lumialza contains a naturally occurring rhizobacteria, *Bacillus amyloiquefaciens*, that aggressively colonizes roots near the seed and soil surface, and throughout the soil profile, resulting in an extensive barrier of biological root protection from nematode attack, and causes paralysis of juvenile nematodes.
- Lumialza provides over 80 days of protection by creating a large zone of protection, encompassing the entire area of root growth including lower, mid and upper root zones

LUMIALZA PROVIDES MORE THAN

80

DAYS OF PROTECTION



Lumialza

Non-nematicide

WHAT ARE NEMATODES?

Nematodes are non-segmented round worms that cannot be seen without a microscope. Plant parasitic nematodes live below ground with a life cycle that typically lasts about 30 days.

Plant parasitic nematodes quickly reproduce and infest crops with multiple generations within a single growing season. Nematodes can greatly impact yield and have widespread presence across Canada.

LUMIALZA PROVIDES EARLY SEASON PROTECTION AGAINST PLANT PARASITIC NEMATODES, RESULTING IN REDUCED FEEDING DAMAGE AND INCREASED ROOT BIOMASS.

- Lumialza grows with the roots to provide protection deep into the soil profile
- This not only provides an extended zone of protection, but also allows prolonged growth benefits extending late into the corn growing cycle
- Lumialza increases root biomass, plant vigour and crop uniformity resulting in improved plant performance



Non-nematicide

Lumialza

Non-nematicide

Lumialza

LUMIALZA YIELD ADVANTAGE

3-9

BU/AC

IN DEMO TRIALS
COMPARED TO
NON-NEMATICIDE
TREATMENT

Based on 238 trials in the U.S.



Pioneer® brand corn genetics are protected with Lumiscend Pro and Lumialza. These products are exclusive to the LumiGEN seed treatment package.

Lumivia™

INSECTICIDE SEED TREATMENT

Win the Start with broad-spectrum insect protection



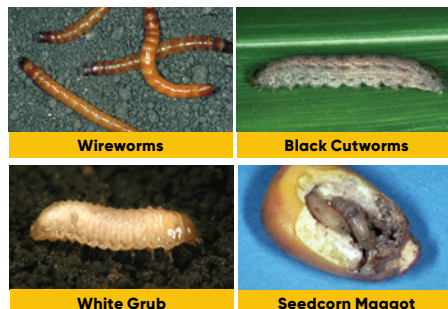
Corn
(all types)

WHY USE LUMIVIA™ INSECTICIDE SEED TREATMENT?

- Unmatched control against key **early season corn insect pests** including wireworms, white grubs, cutworms, armyworms and seedcorn maggot* (European chafer)
- Provides seedling protection to develop **uniform and healthy stands** that maximize yield potential
- Offers a favourable environmental profile

EXCELLENT, LONG LASTING CORN SEEDLING PROTECTION

- Lumivia™ contains a unique mode of action that rapidly protects corn seeds and seedlings up to the 4-5 leaf stage against early-season, below-ground insect pests, like wireworms and seedcorn maggots. It also protects the crop against insect pests that feed on foliage, such as cutworms
- Lumivia remains concentrated in key areas of the corn plant after planting and protects through germination to the V5 growth stage



FAVOURABLE ENVIRONMENTAL PROFILE AND RESISTANCE MANAGEMENT

- Lumivia contains a unique Group 28 anthranilic diamide insecticide, a non-neonic seed treatment option
- Lumivia's favourable environmental profile results in minimal impact on the environment and on beneficial insects and pollinators, when used in accordance with the label¹

*Suppression

¹In line with Integrated Pest Management and Good Agricultural Practices, insecticide applications should be made when pollinators are not foraging to avoid unnecessary exposure

LUMIVIA™ INSECTICIDE SEED TREATMENT DELIVERS UNIFORM, HEALTHY STANDS & IMPROVED EARLY SEASON VIGOUR

- Lumivia™ provides immediate protection of seed and seedlings, resulting in uniform and healthy stand establishment
- Additionally, Lumivia protects yield potential through improved early season vigour

Uniform, healthy stands & improved yield potential over fungicide only treated seed



Source: Field trial, Shetland ON 2016

LUMIVIA INCREASES YIELD

Lumivia
Yield Advantage

+3.2

BU/AC

In demo trials compared
to FST only treatment

Average Yield
(bu/ac)

196.5

193.2

Lumivia

Fungicide
Only

Small Plot Demo Trials from 2015-2016 (n=26)



Lumivia



Fungicide only

Source: Field trial, Mount Forest ON, 2016



Pioneer® brand corn genetics are protected with Lumivia, as part of the LumiGEN® seed treatment package.

herbicides

BY CROP

Corn



Accent™ IS	12
Broadstrike™ RC	13
Destra™ IS	17
Engarde™	19
Enlist Duo™	21
Enlist™ 1	22
Lontrel™ XC	25
Steadfast™ IS	30

Cereals



Pixxaro™ FLEXX	26
Prominex™	28
Simplicity™ GoDRI™	29

Soybeans



Broadstrike™ RC	13
Canopy™ PRO	14
Classic™	15
Commenza™	16
Diligent™	18
Enlist Duo™	21
Enlist™ 1	22
FirstRate™	23
Freestyle™	24

Potatoes



Prism™ SG	27
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Accent™ IS

HERBICIDE

Accent™ IS herbicide delivers outstanding control of annual and perennial grass weeds in field corn, seed corn² and sweet corn³. With a built-in crop safener, Accent IS can be applied with confidence under a wide range of weather and growth stages.

WHY USE ACCENT™ IS HERBICIDE?

- With a built-in crop safener, Accent IS delivers even better crop safety on low heat unit hybrids, seed corn inbreds and sweet corn varieties
- Contact and systemic post-emergence control providing consistent grass control
- Wide window of application and re-cropping flexibility

WEEDS CONTROLLED

- Barnyard grass
- Fall panicum
- Green foxtail
- Long-spined sandbur
- Old witchgrass
- Quackgrass
- Wild oats
- Yellow foxtail¹



CROPS

Field corn

Seed corn

Sweet corn

RATES AND ACRES TREATED

Rates:

- 18.5 g/ac

Acres treated:

- 20 ac/bottle

Water volume:

- 10-20 US gal/ac

PACKAGING

- 370 g bottle

WHEN TO APPLY

- **Hybrid field corn:** 1-8 leaves (6 visible collars = V6)
- **Seed corn:** 1-7 leaves (5 visible collars = V5)
- **Sweet corn:** 1-6 leaves (4 visible collars = V4)

Weed staging: annual grasses: 1-6 leaf, quackgrass: 3-6 leaf

RAINFAST

- 2 hours

Application information

Adjuvants: Accent™ IS herbicide must be applied with one of the following adjuvants:

- Non-ionic Surfactant: 2L/1000L (0.2% v/v)
- Adapt Oil Concentrate: 10L/1000L (1% v/v)
- Merge or Sure-Mix: 5L/1000L (0.5% v/v)
- Non-ionic Surfactant + UAN: 2L/1000L + 5 L/ha)

Tank-Mixes: Accent IS may be tank-mixed with a fertilizer, supplement or registered pest control product whose labels also allow tank mixing. Consult the label of the tank-mix partner and follow both labels to ensure compliance with all use precautions.

Crop Rotation (Eastern Canada):

4 months: Winter wheat

10 months: Spring barley, canola, soybeans, white beans, red clover, sorghum, field corn and alfalfa.

Pre-harvest interval

- The PHI for corn (silage, fodder or grain) is 30 days.
- The PHI for sweet corn is 40 days.

¹ Suppression only. For improved control, apply Accent IS with Merge (0.5% v/v) or NIS + UAN (0.2% v/v + 5 L/Ha)

² Use only on seed corn inbreds approved by the seed corn company

³ Use only on labelled sweet corn varieties

HERBICIDE
PRE-PLANT, PRE-EMERGENCE, PRE-PLANT
INCORPORATED, EARLY POST-EMERGENCE

GROUP
2

APPLICATION GUIDELINES

Broadstrike™ RC

HERBICIDE

Broadstrike™ RC herbicide is your soil applied broadleaf weed control solution for soybeans.



WHY USE BROADSTRIKE™ RC HERBICIDE?

- Soil-applied weed control solution
- Season-long control
- Outstanding crop safety in all soybean varieties
- Fits any soybean production system

WEEDS CONTROLLED

Field corn (25 g/ac)

- Canada fleabane¹
- Common chickweed
- Common lamb's-quarters⁴
- Common ragweed^{2,3}
- Eastern black nightshade
- Redroot pigweed⁴
- Velvetleaf
- Wild mustard
- Wormseed mustard

Soybeans (35 g/ac)

- Canada fleabane¹
- Cocklebur³
- Common chickweed
- Common lamb's-quarters⁴
- Common ragweed^{2,3}
- Eastern black nightshade
- Field horsetail²
- Green foxtail²
- Lady's-thumb²
- Redroot pigweed⁴
- Velvetleaf
- Wild carrot²
- Wild mustard
- Wormseed mustard

CROPS

Field corn

Soybeans

RATES AND ACRES TREATED

Rates:

- Soybeans: 35 g/ac
- Field corn: 25 g/ac

Acres treated:

- Soybeans: 20 ac/bottle
- Field corn: 28 ac/bottle

Water volume: 10-20 US gal/ac

PACKAGING

Case:

• 12 x 0.715 kg bottles

WHEN TO APPLY

- Soybeans: Surface pre-plant, pre-plant incorporated, pre-emergence
- Field corn: Surface pre-plant, pre-emergence, pre-plant incorporated, early post-emergence

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

Field Corn:

Registered:

Dual II Magnum*

Supported:

Atrazine
Enlist Duo™ herbicide
Enlist™ 1 herbicide
Glyphosate

Soybeans:

Registered:

Dual II Magnum
Treflan™ E.C.
Glyphosate

Supported:

Boundary®
Enlist Duo
Enlist 1

Application information

Apply Broadstrike™ RC herbicide in conventional, conservation tillage or no-till corn, and soybean production systems.

Field corn: Do not apply to areas where the soil pH is greater than 7.8 or where the soil organic matter is less than 2.0%.

Soybeans: Do not apply to areas where the soil pH is greater than 7.8 and organic matter is less than 2% (both apply) as this may result in decreased crop tolerance.

Crop rotation

4 months: Winter wheat

10 months: Spring wheat, spring barley, oats, soybeans, common beans (dry, snap), lima beans, processing peas, field corn and seed corn

Rotational crop restrictions: Following an application of Broadstrike RC in a dry year, the risk of injury to rotational crops may increase in light-textured soils containing less than 2% organic matter due to a higher bioavailability of herbicide residues for plant uptake.

Pre-harvest interval

- The PHI is 90 days.

¹ Populations resistant to Group 2 herbicides exist in certain areas of Eastern Canada. Broadstrike RC alone may not control all weed biotypes resistant to Group 2 herbicides.

² Suppression

³ If weed pressure in soybeans is heavy, tank mix with another product that provides a different mode of action.

⁴ Including triazine-tolerant biotypes

HERBICIDE
PRE-PLANT, PRE-EMERGENCEGROUP
2GROUP
5MULTI
MODE
OF ACTION

APPLICATION GUIDELINES

Canopy™ PRO**HERBICIDE**

Canopy™ PRO pre-emergence herbicide delivers broad-spectrum and residual activity to help maximize early-season control of tough weeds.

WHY USE CANOPY™ PRO HERBICIDE?

- **Broad spectrum** weed control performance
- Control resistant **Canada fleabane**
- **Optimize soybean yield** by removing weeds early
- Season-long control
- Fits any soybean production system

WEEDS CONTROLLED**Broadleaf weeds**

- Annual sow-thistle⁵
- Canada fleabane⁴
- Carpetweed
- Cocklebur¹
- Common chickweed
- Common lamb's-quarters
- Common ragweed
- Corn spurry
- Dandelion
- Green smartweed
- Hemp-nettle
- Jimsonweed¹
- Lady's-thumb
- Prostrate pigweed
- Redroot pigweed
- Russian thistle
- Shepherd's-purse
- Velvetleaf
- Wild buckwheat
- Wild mustard
- Wild potato vine
- Yellow woodsorrel

Annual grasses

- Barnyard grass²
- Cheatgrass²
- Crabgrass²
- Fall panicum²
- Giant foxtail²
- Green foxtail²
- Johnsongrass²
- Witchgrass²
- Yellow foxtail²
- Yellow nutsedge³

CROPS

Soybeans

RATES AND ACRES TREATED

- Rates:**
- 14.4 g/ac + 225 g/ac
- Acres treated:**
- New 40 ac/case
- Water volume:**
- 10-20 US gal/ac

PACKAGING

- Case:**
- Classic™ herbicide
 - 2 x 288 g bottles
 - Metribuzin Mx
 - 2 x 4.5 kg jugs

WHEN TO APPLY

- Pre:** Apply after planting but prior to crop emergence
- Pre-Plant Burndown:** Apply up to 14 days before planting

RAINFAST

- 2 hours

HERBICIDE TANK MIXES**Registered:**

- 2,4-D Ester
- Dual II Magnum[®]
- Enlist Duo™⁶ or Enlist™ 1⁶

- Eragon[®] LQ
- Frontier[®] MAX
- Glyphosate

⁶ Only for use in Enlist E3™ soybeans**Application information**

Formulated as a dry flowable granule to be mixed in water and applied as uniform broadcast spray. Only apply using ground equipment. This product is not registered for aerial application.

Crop rotation

The recropping intervals are dependent on the pH of the soil, as well as the sensitivity of the specific rotational crop. Consult product labels for rotation intervals across a full range of soil pH levels.

Soil pH ≤ to 7.4:**3 months:** Winter wheat**10 months:** Field corn, soybeans, white beans and alfalfa**12 months:** Tomatoes

See product label for full list of crop rotation guidelines.

Pre-harvest interval

- The PHI is 60 days.

Mixing Instructions

1. Fill the sprayer tank with ½ to ¾ of the required amount of water
2. Continue agitation throughout the mixing and spraying procedure
3. Add the required amount of Classic™ and allow time for product to fully disperse
4. Add the required amount of Metribuzin Mx
5. If required for a burndown, add liquids or suspension concentrates such as Enlist 1 or Enlist Duo
6. If required for a burndown, add glyphosate and continue agitation
7. Complete filling the sprayer tank

¹ Large-seeded weeds that germinate deep in the soil, such as cocklebur and jimsonweed, may not be fully controlled.² Partial control³ Suppression⁴ Including glyphosate-resistant biotypes. Must be tank mixed with Eragon[®]. For RoundupReady 2 Xtend™ soybeans, tank mix with a low volatile dicamba herbicide. For Enlist E3™ soybeans, tank mix with Enlist Duo™ or Enlist™ 1.⁵ Must be tank mixed with glyphosate

HERBICIDE
PRE-PLANT, PRE-EMERGENCE,
POST-EMERGENCE

GROUP
2

APPLICATION GUIDELINES

Classic™

HERBICIDE

Classic™ herbicide offers exceptional control of hard-to-control broadleaf weeds in soybeans.



WHY USE CLASSIC™ HERBICIDE?

- **Hard-to-control weeds.** Classic helps you manage some of the toughest weeds including nutsedge, sow-thistle and dandelions
- **Convenience.** Low use rate and easy to tank-mix with pre and post herbicides
- **Application flexibility.** Classic has a wide window of application from 14 days pre-plant up to early post-emergence
- **Fits any soybean production system.** Classic can be used in any production system, including Enlist E3™ soybeans, Roundup Ready 2 Xtend® soybeans or identity-preserved (IP)

WEEDS CONTROLLED

14.4 g/ac + Non-ionic surfactant at 0.2% v/v

- Adzuki bean²
- Common ragweed
- Dandelion¹
- Redroot pigweed
- Velvetleaf
- Wild carrot²
- Yellow nutsedge

Additional weeds controlled when tank-mixed with glyphosate at 900 g ae/ha

- Annual sow-thistle
- Prickly lettuce

CROPS

Soybeans

RATES AND ACRES TREATED

Rates:
14.4 g/ac
Acres treated:
• 20 ac/288 g bottle
• 40 ac/576 g bottle
Water volume:
• 15-20 US gal/ac

PACKAGING

- 288 g bottle
- 576 g bottle

WHEN TO APPLY

Crop Stage:
Pre: Apply 14 days pre-plant up to pre-emergence
Post-emergence: Apply from soybean emergence up to just before the initiation of flowering. For best performance apply by the 3rd trifoliate stage.

RAINFAST

- 2 hours

HERBICIDE TANK MIXES

Registered:
Assure® II
Glyphosate
Metribuzin 75 DF
Imazethapyr

Supported:
Enlist Duo™³
Enlist™ 1³

³ Only for use in Enlist E3™ soybeans

Application information

Add a registered non-ionic surfactant such as Agral 90® or Ag-Surf® at 2 L per 1,000 L of spray solution (0.2% v/v).

For more consistent control of velvetleaf, add 28% UAN at 0.8 L/ac

For tank-mixes with glyphosate, a non-ionic surfactant is not required.

Apply Classic™ herbicide only once per year.

Crop rotation

The recropping intervals are dependent on the pH of the soil, as well as the sensitivity of the specific rotational crop. Consult product labels for rotation intervals across a full range of soil pH levels.

3-4 months: Winter wheat

10 months: Field corn, white beans, soybeans and alfalfa (soil pH value <7.4 only)

11 months: Cabbage, garden peas and sweet corn (Southern Ontario only, pH value <7.0 only)⁴

12 months: Tomatoes

Pre-harvest interval

- The PHI is 60 days.

¹ Top growth control

² Suppression

⁴ Warning: sweet corn varieties may vary in their sensitivity to Classic residues.

HERBICIDE
PRE-PLANT, PRE-EMERGENCE,
PRE-PLANT INCORPORATED

GROUP GROUP GROUP

2

5

15

MULTI
MODE
OF ACTION

APPLICATION GUIDELINES

Commenza™

HERBICIDE

Commenza™ herbicide provides three active ingredients and residual activity for soil applied cross-spectrum broadleaf and grass control in soybeans. Multi-mode of action technology ensures robust performance against resistant and hard-to-control weeds.



WHY USE COMMENZA™ HERBICIDE?

- **Soil-applied weed control solution.** Commenza is a pro-active approach to establish early season control of most major annual weeds in soybeans. For identity preserved (IP) soybeans, this is essential to starting the growing season clean
- **Multi-mode of action.** Commenza contains 3 proven active ingredients from three herbicide groups for overlapping effective modes of action on key weeds such as Eastern black nightshade
- **Convenience and confidence.** 20 acre co-pack is easy to handle and measure. A complete herbicide program from one manufacturer provides you with confidence and assurance of performance

WEEDS CONTROLLED

- American nightshade
- Barnyard grass
- Canada fleabane¹
- Carpetweed
(pre-emergence only)
- Cheatgrass
- Cocklebur³
- Common chickweed
- Common lamb's-quarters⁴
- Common ragweed^{1, 2, 3}
- Corn spurry
- Dandelion (seedling)
- Eastern black nightshade
- Fall panicum
- Field horsetail²
- Giant foxtail
- Green foxtail
- Green smartweed
- Hairy crabgrass
- Jimsonweed
(pre-emergence only)
- Johnson grass (seedling)
- Lady's-thumb
(suppression if pre-plant incorporated application)
- Old witchgrass
- Prickly mallow
(pre-emergence only)
- Prostrate pigweed
- Redroot pigweed^{1, 4}
- Russian thistle
- Shepherd's-purse
- Smooth crabgrass
- Velvetleaf
- Wild carrot²
- Wild mustard
- Wild potato vine
- Wormseed mustard
- Yellow foxtail
- Yellow nutsedge (PPI only)
- Yellow woodsorrel
(pre-emergence only)

¹ Populations resistant to Group 2 herbicides exist in certain areas of Eastern Canada. Commenza alone may not control all weed biotypes resistant to Group 2 herbicides.

² Suppression

³ If weed pressure in soybeans is heavy, tank-mix with another product that provides a different mode of action.

⁴ Including triazine-tolerant biotypes

CROPS

Soybeans

RATES AND ACRES TREATED

Rates:

• 35 g/ac + 225 g/ac + 525 mL/ac

Acres treated:

• 20 ac/case

Water volume:

• 10-20 US gal/ac

PACKAGING

Case:

• Broadstrike™ RC:

715 g bottle

• Metribuzin Mx 75 DF:

4.5 kg jug

• S-Metolachlor 960:

10.5 L jug

WHEN TO APPLY

Soybean Application Methods:

Surface pre-plant, pre-emergence, pre-plant incorporated

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

Registered:

Glyphosate

Supported:

Enlist Duo™ herbicide⁵

Enlist™ 1 herbicide⁵

⁵ Only for use in Enlist E3™ soybeans

Application information

Apply Commenza™ herbicide in conventional, conservation tillage or no-till soybean production systems.

Soybeans: Do not apply to areas where the soil pH is greater than 7.8 and organic matter is less than 2% (both apply) as this may result in decreased crop tolerance.

Crop rotation

4 months: Winter wheat

10 months: Spring wheat, spring barley, oats, soybeans, common beans (dry, snap), lima beans, processing peas, field corn and seed corn.

Following an application of Commenza in a dry year, the risk of injury to rotational crops may increase in light-textured soils containing less than 2% organic matter due to a higher bioavailability of herbicide residues for plant uptake.

Pre-harvest interval

• The PHI is 90 days.

Mixing Instructions

1. Fill the sprayer tank with ½ to ¾ of the required amount of water
2. Continue agitation throughout the mixing and spraying procedure
3. Add the required amount of Broadstrike™ RC herbicide and allow time or product to fully disperse. Add the required amount of Metribuzin Mx
4. If required for a burndown, add liquids or suspension concentrates such as Enlist 1 or Enlist Duo
5. Add the required amount of S-metolachlor 960
6. If required for a burndown, add glyphosate and continue agitation
7. Complete filling the sprayer tank

Destra™ IS**HERBICIDE**

Destra™ IS herbicide delivers convenient, one-pass, early post-emergence weed control in glyphosate-tolerant corn.



Field Corn

WHY USE DESTRA™ IS HERBICIDE?

- **Easy to use.** Advanced dry blend formulation and low use rate of Destra IS makes sprayer loading efficient and allows you to cover more acres
- **Wide application window.** Destra IS has both knockdown and residual activity allowing you to start as early as the 3-leaf stage and spray as late as the 8-leaf stage
- **Excellent crop safety.** Because Destra IS contains isoxadifen, a built-in safener, Destra IS provides crop safety on a wide range of hybrids including short-season corn hybrids

WEEDS CONTROLLED

- Common lamb's-quarters
- Common ragweed*
- Eastern black nightshade
- Fall panicum
- Green foxtail
- Green pigweed
- Old witchgrass
- Quackgrass*
- Redroot pigweed
- Velvetleaf
- Volunteer canola¹

CROPS

Field corn

RATES AND ACRES TREATED**Rates:**

110 g/ac

Acres treated:

• 40 ac/4.4 kg jug

Water volume:

• 15-20 US gal/ac

PACKAGING**Case:**

• 2 x 4.4 kg jugs

WHEN TO APPLY

Crop Stage: 3 to 8 leaf stage of corn
(2-6 visible collars)

Weed Stage: Ideal application timing is when weeds are small and the extended residual activity can help to control later flushes of weeds.

RAINFAST

• 2 hours

HERBICIDE TANK MIXES**Registered:**

Glyphosate (glyphosate-tolerant corn only)
AAtrex® Liquid 480

Supported:

Lontrel™ XC

Application information

For post-emergence applications, Destra™ IS herbicide must be tank-mixed with a recommended non-ionic surfactant, either Citowett Plus, Agral® 90 or Ag-Surf® at 2 L per 1,000 L spray solution (0.2% v/v).

When Destra IS is tank-mixed with glyphosate, a non-ionic surfactant is not required.

Crop rotation**4 months:** Winter wheat**10 months:** Field corn**11 months:** Soybeans, white beans and potatoes**Pre-harvest interval**

• The PHI is 100 days.

* Suppression

¹ Excluding Clearfield® canola

HERBICIDE
PRE-PLANT, PRE-EMERGENCEGROUP
2GROUP
14MULTI
MODE
OF ACTION

APPLICATION GUIDELINES

Diligent™**HERBICIDE**

Diligent™ herbicide offers flexible defense against a range of tough and resistant broadleaf weeds in soybeans, including glyphosate-resistant waterhemp.

**WHY USE DILIGENT™ HERBICIDE?**

- **Early control for a strong start.** It can be applied from early pre-plant to pre-emergence
- **Two modes of action defend against resistance.** With a multi-mode defense against Group 2, 5 and 9 resistant broadleaf weeds, Diligent provides a proactive approach to weed resistance management
- **Fits any soybean production system.** Diligent can be used in any production system, including Enlist E3™ soybeans, Roundup Ready 2 Xtend® soybeans or identity-preserved (IP)

WEEDS CONTROLLED

- Common chickweed
- Common lamb's-quarters
- Common ragweed
- Dandelion¹
- Eastern black nightshade
- Fall panicum²
- Green foxtail²
- Green pigweed
- Hairy nightshade
- Palmer amaranth
- Redroot pigweed
- Waterhemp³

CROPS

Soybeans

RATES AND ACRES TREATED

Rates:
70.4 g/ac
Acres treated:
• 40 ac/2.816 kg jug
Water volume:
• 10-20 US gal/ac

PACKAGING

Case:
• 2 x 2.816 kg jugs

WHEN TO APPLY

Soybeans:
Pre-plant: Up to 30 days before planting
Pre-emergence: Up to 3 days after planting, prior to soybean emergence

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

• Prowl® H2O
• Focus® or Zidua™
If weeds are present at the time of application, tank-mix Diligent™ herbicide with glyphosate for the burndown of emerged weeds.

Application information

No-till planters that incorporate the soil during planting may result in decreased weed control in the row. When these types of planters are used, apply Diligent within 3 days after planting and before soybeans emerge.

Moisture is necessary to activate Diligent in soil for residual weed control.

Crop rotation

Crop rotation varies by crop and soil pH.

4 months: Winter wheat

10 months: Field corn (soil pH ≤ 7.8 only) and soybeans (soil pH ≤ 7.8 only)

11 months: Alfalfa (soil pH ≤ 7.4 only)

Pre-harvest interval

• The PHI is 60 days.

¹Early-season control on medium-textured soils

²Suppression

³Including biotypes resistant to herbicide Groups 2, 5 and 9

HERBICIDE
PRE-EMERGENCE,
EARLY POST-EMERGENCEGROUP
2 GROUP
27MULTI
MODE
OF ACTION

APPLICATION GUIDELINES

Engarde™**HERBICIDE**

Engarde™ herbicide gives you flexibility, convenience and performance against yield-robbing weeds in corn, for clean fields from start to finish.



Field Corn

WHY USE ENGARDE™ HERBICIDE?

- **Early knockdown and residual control of weeds.** Application flexibility from pre-emergence to the 2-leaf stage of corn allows you to keep spraying even after crop emergence
- **Two modes of action.** Engarde has 2 powerful modes of action to provide early season weed control
- **Easy to use.** Low use rate dry blend technology makes handling, sprayer loading and application easy

WEEDS CONTROLLED**Broadleaf Weeds**

- Common lamb's-quarters
- Common ragweed¹
- Redroot pigweed
(including triazine resistant)
- Velvetleaf
- Volunteer canola
- Wild mustard

Grasses

- Barnyard grass
- Fall panicum
- Green foxtail
- Hairy/Large crabgrass¹
- Quackgrass¹
- Witchgrass
- Yellow foxtail¹

CROPS

Field corn

RATES AND ACRES TREATED

Rates:
139.2 g/ac
Acres treated:
• 40 ac/5.568 kg jug
Water volume:
• 15-20 US gal/ac

PACKAGING

Case:
• 2 x 5.568 kg jugs

WHEN TO APPLY

Field corn:
Pre-emergence
Post-emergence up to the 2-leaf stage

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

For additional residual annual weed control, tank-mix Engarde™ herbicide with a Group 15, soil-applied grass herbicide

Application information

For early post-emergence applications, Engarde must be tank-mixed with a recommended non-ionic surfactant, either Agral® 90, Citowett Plus or Ag-Surf® at 2 L per 1,000 L spray solution (0.2% v/v).

When tank-mixed with a glyphosate herbicide containing a built-in adjuvant system, a non-ionic surfactant is not required.

Crop rotation

4 months: Winter wheat

10 months: Field corn

11 months: Soybeans and white beans

Pre-harvest interval

- The PHI is 100 days.

¹ Suppression only

ENLIST™
WEED CONTROL SYSTEMTHE ENLIST™ WEED CONTROL SYSTEM WILL CHANGE HOW YOU
THINK ABOUT WEED MANAGEMENT IN SOYBEANS.

The best and most flexible weed control system on the market.

INTRODUCING THE ENLIST WEED CONTROL SYSTEM

The Enlist weed control system will help growers meet the challenge of farming today and in the future.

The Enlist weed control system delivers:

- A system with new traits providing herbicide tolerance in soybeans and corn
- Herbicide solutions built on an improved form of 2,4-D that lands and stays on target, enables management of hard-to-control and resistant weeds with Group 4 herbicides
- Enlist herbicide Stewardship resources that support the use of multiple modes of action to manage resistant weeds, provide training, and promote responsible and sustainable use

ENLIST E3™ SOYBEANS

Enlist E3™ soybeans provide high yield potential soybean genetics and industry leading triple-mode of action herbicide tolerance.

Features and benefits:

- Enlist E3 soybeans are tolerant to 2,4-D choline, glyphosate and glufosinate herbicides, which are part of a strong resistance management strategy
- Excellent crop tolerance enabling applications up to the R2 growth stage

THE PROGRAM APPROACH

is a **two-pass system** that uses multiple modes of action to effectively manage hard-to-control and resistant weeds in **Enlist E3™ soybeans**.

BENEFITS INCLUDE:

- ✓ **Optimize yield** by removing early weed competition
- ✓ Multi-modes of action for **resistance management**
- ✓ **Reduce risk** - Allows for timely Post applications of Enlist herbicides

Start clean with
tillage, burndown
herbicide, or a soil
residual herbicide

PLANT ENLIST E3™
SOYBEANS

If not applied before
planting, apply soil
residual herbicide

Apply Enlist Duo™ or Enlist™ 1 herbicide
No later than R2 or full flowering stage

Enlist™ herbicides -
no plant-back
restriction



Broadstrike™ RC
Canopy™ PRO
Diligent™
Freestyle™

Enlist Duo™
with COLEX-D™ technology
Enlist™ 1
with COLEX-D™ technology

Apply Liberty™ 200 SN herbicide
No later than R1 or beginning bloom

Liberty 200 SN
Herbicide



APPLYING ENLIST HERBICIDES:



- Boom height at 60 cm or less



- Use nozzles that deliver coarse to extremely coarse spray droplets



- Optimum spray volume at 15 GPA



- Spray when winds are between 3-16 km/h
- Do not spray in winds that exceed 25 km/h
- Do not spray during a temperature inversion

HERBICIDE
PRE-PLANT, PRE-EMERGENCE,
POST-EMERGENCE

GROUP 4
GROUP 9

MULTI
MODE
OF ACTION

APPLICATION GUIDELINES

Enlist Duo™

with COLEX-D™ technology

HERBICIDE

Enlist Duo™ herbicide with COLEX-D™ technology provides the convenience of both 2,4-D choline and glyphosate in one formulation for control of grasses and broadleaf weeds including hard-to-control and resistant weeds.

WHY USE ENLIST DUO™ HERBICIDE?

- Improved control from two modes of action: Groups 4 & 9
- Multiple modes of action in a convenient formulation
- Improved tank stability for a spray solution that stays mixed
- Spray solution does not adhere to sprayer components providing easy and fast sprayer cleanout

WEEDS CONTROLLED

Enlist E3™ soybeans (1.74 L/ac)

- Annual sow-thistle
- Annual sunflower
- Barnyard grass
- Biennial wormwood²
- Blue lettuce²
- Bluebur
- Burdock (before 4-leaf)
- Burdock²
- Canada fleabane
- Canada thistle^{3,5}
- Cleavers
- Cocklebur
- Common chickweed
- Common milkweed^{3,4}
- Common plantain
- Common purslane
- Common ragweed
- Common tansy
- Common waterhemp
- Corn spurry
- Cow cockle
- Daisy fleabane
- Dandelion
- Dog mustard

- Eastern black flowering nightshade
- Fall panicum
- False flax
- Field bindweed¹
- Field horsetail
- Field peppergrass
- Flaxweed
- Giant foxtail
- Giant ragweed
- Goat's-beard
- Green foxtail
- Green smartweed
- Hairy galinsoga
- Hedge bindweed
- Hemp-nettle
- Hoary cress
- Knotweed (before 4-leaf)
- Kochia
- Lady's-thumb
- Lamb's-quarters
- Large crabgrass
- Leafy spurge²
- Mouse-eared chickweed²
- Mustards (except green tansy)
- Narrow-leaf hawk's-beard
- Nightflowering catchfly
- Oak leaf goosefoot

- Palmer amaranth¹
- Pennsylvania smartweed
- Perennial sow-thistle^{3,5}
- Pineappleweed
- Quackgrass
- Redroot pigweed
- Roundleaf mallow³
- Russian pigweed
- Russian thistle
- Shepherd's purse
- Smooth crabgrass
- Smooth pigweed
- Stinkweed
- Sweet clover
- Tartary buckwheat
- Velvetleaf
- Vetch
- Volunteer barley
- Volunteer canola⁴
- Volunteer wheat
- Wild buckwheat
- Wild oats
- Wild proso millet
- Wild radish
- Wild tomato
- Yellow nutsedge^{3,6}



Enlist™
Field Corn



Enlist E3™
Soybeans

CROPS

Enlist™ corn

Enlist E3™ soybeans

Burndown

before field corn,
wheat (spring,
winter, durum),
barley, rye

RATES AND ACRES TREATED

Rates:

Enlist™ field corn and
Enlist E3™ soybeans:

• 1.18 – 1.74 L/ac

Burndown ahead of corn and
cereal crops:

• 0.89 – 1.74 L/ac

Acres treated (1.74 L/ac rate):

• 10 ac/case

• 320 ac/tote

Water volume:

• 10–15 gal/ac

• Do not exceed more than 3.48 L/ac per use season.

PACKAGING

Case:

• 2 x 8.7 L

Tote:

• 556.8 L

WHEN TO APPLY

Crop Stage:

Enlist corn: Up to V8 growth stage or 120 cm height

Enlist E3 soybeans: Up to R2 stage (full flowering)

Burndown before field corn, wheat (spring, winter, durum),
barley, rye: Prior to planting or after planting
(BUT BEFORE CROP EMERGENCE)

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

Consult the Enlist Product Use Guide available at
EnlistCanada.ca.

Application information

On-Target Application Requirements:

Droplet Size: Coarse to extremely coarse (ASAE S-572 Standard) to greatly reduce drift potential.

Boom Height: 60 cm or less

Spray Volume: 15 gal/ac is optimum

Wind: 3–16 km/hr. Do not spray during a temperature inversion. Do not spray in winds that exceed 25 km/h

Enlist corn, Enlist E3 soybeans: Make 1 to 2 applications with a minimum of 12 days between applications.

Crop Rotation

Any crop may be grown the year following an application of Enlist Duo™ herbicide.

Pre-harvest Interval

Enlist E3 soybeans:

Do not harvest for forage or hay. Do not graze treated Enlist E3 soybeans.

Enlist corn:

Do not permit lactating dairy animals to graze fields within 7 days after application.

Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

¹ Including glyphosate-tolerant and Clearfield® canola varieties.

² Top growth control only.

³ Use 2 applications for best control. The 2nd application should be no later than the R2 stage (full flowering stage) of soybeans.

⁴ Milkweed: 15–60 cm in height and actively growing.

⁵ Thistle, Canada and Sow-thistle, Perennial: should be from the rosette stage to 50 cm in height and actively growing.

⁶ Nutsedge, Yellow: 5–15 cm in height and actively growing.

HERBICIDE
PRE-PLANT, PRE-EMERGENCE,
POST-EMERGENCE

GROUP

4

APPLICATION GUIDELINES



with COLEX•D™ technology

HERBICIDE

Enlist™ 1 herbicide, a standalone 2,4-D choline formulation provides the flexibility to tank-mix and adjust the rates of glyphosate or glufosinate for hard-to-control and resistant weeds.

WHY USE ENLIST™ 1 HERBICIDE?

- Enlist™ 1 herbicide with Colex-D™ technology is designed to land and stay on target with excellent performance on the toughest weeds
- **Flexibility.** Enlist 1 allows you to customize use rates and ratios of tank-mix partners
- **Compatibility.** Enlist 1 can be tank-mixed with glyphosate (Group 9), Liberty® 200 SN (glufosinate, Group 10), or other approved products

WEEDS CONTROLLED

Enlist E3™ soybeans
(0.73 L/ac)

- | | | |
|----------------------------------|--------------------------------------|--|
| • Annual sow-thistle | • False flax | • Mustards <i>(except green tansy)</i> |
| • Annual sunflower | • Field bindweed ² | • Oak leaf goosefoot |
| • Biennial wormwood ² | • Field horsetail | • Pennsylvania smartweed |
| • Blue lettuce ² | • Field peppergrass | • Perennial sow-thistle ² |
| • Bluebur | • Flixweed | • Pineappleweed |
| • Burdock <i>(before 4-leaf)</i> | • Giant ragweed | • Redroot pigweed |
| • Burdock ² | • Goat's-beard | • Russian pigweed |
| • Canada thistle ² | • Green smartweed | • Russian thistle |
| • Cocklebur | • Hairy galinsoga | • Shepherd's purse |
| • Common chickweed | • Hedge bindweed | • Sweet clover |
| • Common plantain | • Hoary cress | • Tartary buckwheat |
| • Common purslane | • Knotweed <i>(before 4-leaf)</i> | • Velvetleaf |
| • Common ragweed | • Kochia | • Vetch |
| • Common tansy | • Lady's-thumb | • Volunteer canola ¹ |
| • Daisy fleabane | • Lamb's-quarters | • Wild buckwheat |
| • Dandelion | • Leafy spurge ² | • Wild radish |
| • Dog mustard | • Mouse-eared chickweed ² | |

Enlist™
Field CornEnlist E3™
Soybeans

CROPS

Enlist™ corn

Enlist E3™
soybeans

RATES AND ACRES TREATED

Rates:

- 0.3 to 0.73 L/ac
- Hard-to-Control weeds: 0.73 L/ac
- Acres treated (0.73 L/ac rate):**
- 28 ac/case
- 616 ac/450 L returnable tote

Water volume:

- 10-15 gal/ac
- Do not exceed 1.46 L/ac per use season

PACKAGING

CASE:

- 2 x 10.2 L

TOTE:

- 450 L returnable tote

WHEN TO APPLY

- Enlist E3 soybeans tank-mix with glyphosate up to R2 (full flower)
- Enlist E3 soybeans tank-mix with Liberty 200 SN* (glufosinate) up to R1 (beginning bloom)
- Enlist corn up to V8 or 120 cm in height

RAINFAST

- 2 hours

HERBICIDE TANK MIXES

Consult the Product Use Guide available at EnlistCanada.ca

Registered tank-mixes:

Glyphosate at 900 gal/ha (Group 9)

Supported tank-mixes:

Liberty 200 SN (glufosinate – Group 10)

Control of volunteer Enlist corn in Enlist E3 soybeans:

Select™, Centurion®, Poast® Ultra

Application information

On-Target Application Requirements:

Droplet Size: Coarse to extremely coarse (ASAE S-572 Standard) to greatly reduce drift potential.

Boom Height: 60 cm or less.

Spray Volume: 10-15 gal/ac is optimum.

Wind: 3-16 km/hr. Do not spray during a temperature inversion. Do not spray in winds that exceed 25 km/h.

Enlist corn: Make 1 to 2 applications with a minimum of 12 days between applications before the V8 growth stage.

Enlist E3 soybeans: Make 1 to 2 applications with a minimum of 12 days between applications. Apply up to R2 stage.

Crop Rotation

Any crop may be grown the year following an application of Enlist™ 1 herbicide.

Pre-harvest interval

Enlist E3 soybeans: Do not harvest for forage or hay. Do not graze treated Enlist E3 soybeans.

Enlist corn: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

¹ Including glyphosate-tolerant and Clearfield® canola varieties.

² Top growth control only.

HERBICIDE
PRE-EMERGENCE,
POST-EMERGENCEGROUP
2

APPLICATION GUIDELINES

FirstRate™**HERBICIDE**

FirstRate™ herbicide is your solution for effective pre- and post-emergence control of the most troublesome broadleaf weeds in soybeans.

WHY USE FIRSTRATE™ HERBICIDE?

- **Broadleaf weed control.** FirstRate provides a high level of control of some of the toughest broadleaf weeds including cocklebur, horsenettle and jimsonweed
- **Wide application window.** FirstRate can be applied any time from pre-emergence up to just before flowering (R1)
- **Tank mix flexibility.** FirstRate can be tank-mixed with other herbicides and used in non-GMO or glyphosate tolerant soybeans to improve control of broadleaf weeds

WEEDS CONTROLLED**Pre-emergence (8.5 g/ac)**

- Common lamb's-quarters¹
- Common ragweed¹
- Velvetleaf

Pre-emergence (17 g/ac)

Above weeds plus

- Cocklebur
- Lamb's-quarters
(heavy infestations)

Post-emergence (8.5 g/ac)

- Canada fleabane
- Common cocklebur (4-8 leaf)
- Common ragweed¹ (4-8 leaf)
- Giant ragweed¹ (4-6 leaf)
- Horsenettle
- Jimsonweed (2-4 leaf)
- Velvetleaf (2-4 leaf)

CROPS

Soybeans

RATES AND ACRES TREATED**Rates:**

Pre-emergence: 8.5-17 g/ac

Post-emergence: 8.5 g/ac

Acres treated

(post-emergence rate):

• 40 ac/bottle

• 160 ac/case

Water volume:

• 10-20 US gal/ac

PACKAGING

340 g Bottle:

• 4 x 340 g/case

NEW: 6 x 340 g/case**WHEN TO APPLY**

- Pre-emergence:
 - Apply after planting but prior to crop or weed emergence
- Post-emergence:
 - Any time prior to soybean flowering stage

RAINFAST

• 2 hours

HERBICIDE TANK MIXES**Registered:**Pursuit®
Glyphosate**Supported:**Broadstrike™ RC
Dual II Magnum**Application information**

Application prior to full emergence of 1st trifoliate leaf may cause temporary yellowing of soybeans. This effect is transient and has no effect on yields.

Adequate soil moisture is necessary for optimal efficacy. Sufficient rainfall to moisten the soil to depth of 5 cm is generally sufficient. If no rainfall within 7-10 days, a shallow cultivation or rotary hoe is recommended.

Post-emergent applications of FirstRate™ herbicide require the addition of a non-ionic surfactant at 0.25% v/v plus liquid fertilizer (28-0-0 or 32-0-0) at 2.5% v/v.

Crop rotation**0 months:** Soybeans**4 months:** Wheat**9 months:** Corn**Pre-harvest interval**

- The PHI is 65 days.

¹Note: Group 2 resistant biotypes are known to exist and these populations will not be controlled

HERBICIDE
PRE-PLANT, PRE-EMERGENCE,
POST-EMERGENCE

GROUP
2

APPLICATION GUIDELINES

Freestyle™

HERBICIDE

Freestyle™ herbicide is a flexible solution for early-season weed control in any soybean production system. It provides enhanced residual control of grass and broadleaf weeds, including tough weeds like Eastern Black Nightshade.



Soybeans

WHY USE FREESTYLE™ HERBICIDE?

- **Adds residual.** Freestyle adds residual control of broadleaf and grass weeds to your herbicide program
- **Fits any soybean production system.** Freestyle can be used in any production system, including Enlist E3™ soybeans, Roundup Ready 2 Xtend® soybeans or identity-preserved (IP)
- **Broad-spectrum and residual season-long weed control.** Adds control of weeds such as velvetleaf, Eastern black nightshade and nutsedge

WEEDS CONTROLLED

Broadleaf weeds:

- Common lamb's-quarters
- Dandelion¹
- Eastern black nightshade
- Lady's-thumb
- Prickly lettuce¹
- Redroot pigweed
- Smartweed
- Velvetleaf
- Wild mustard

Grass weeds:

- Barnyard grass
- Green foxtail
- Old witchgrass
- Yellow foxtail
- Yellow nutsedge

CROPS

Soybeans

RATES AND ACRES TREATED

Rates:

- Pre-plant or pre-emergence:
• 14.4 g/ac + 125 mL/ac
- Early post-emergence:
• 9.6 g/ac + 83 mL/ac

Acres treated:

- Pre-plant or pre-emergence:
• 40 ac/case
- Early post-emergence:
• 60 ac/case

Water volume:

- 10-20 US gal/ac

PACKAGING

Case:

- Classic™
2 x 288 g bottle
- Imazethapyr SL 2 x 2.5 L

WHEN TO APPLY

- Glyphosate tolerant soybeans: Pre-plant or pre-emergence
- Glyphosate tolerant soybeans: Early post-emergence
- Identity preserved (IP) soybeans: Early pre-plant to pre-emergence

RAINFAST

- 4 hours

HERBICIDE TANK MIXES

Glyphosate – burndown or post-emergence in glyphosate tolerant soybeans
Boundary® LQD – for IP soybeans

Application information

Glyphosate tolerant soybeans – Pre-plant or Pre-emergence (14.4g/ac + 125 mL/ac)

- Apply up to 14 days before planting

Glyphosate tolerant soybeans – Early Post-emergence (9.6 g/ac + 83 mL/ac)

- Apply up to the 3rd trifoliate stage; Tank-mix with 0.67-1 L/ac of a 540 g/L glyphosate

IP soybeans – Early pre-plant to pre-emergence (14.4 g/ac + 125 mL/ac)

- Tank-mix with a pre-emergence grass herbicide such as Boundary LQD for additional residual and modes of action

Adjuvants: For control of emerged weeds add a non-ionic surfactant at 2 L/1,000 L of spray solution (0.2% v/v). When tank mixed with a glyphosate herbicide containing a built-in adjuvant system, a non-ionic surfactant is not required.

Crop rotation

Based on soil pH of ≤ 7.4:

3 months: Winter wheat

10 months: Field corn, soybeans and white beans

Pre-harvest interval

- The PHI is 100 days.

Mixing Instructions

1. Fill the sprayer tank with ½ to ¾ of the required amount of water
2. Continue agitation throughout the mixing and spraying procedure
3. Add the required amount of Classic and allow time for product to fully disperse
4. Add the required amount Imazethapyr SL and allow time for product to fully disperse
5. If required, add glyphosate and continue agitation
6. If not tank-mixing with glyphosate add surfactant
7. Complete filling the spray tank

¹ Pre-plant burndown applications

HERBICIDE
POST-EMERGENCEGROUP
4

APPLICATION GUIDELINES

Lontrel™ XC

HERBICIDE



Lontrel™ XC herbicide improves the control of thistles and other hard to control broadleaf weeds in field corn and other field crops.

WHY USE LONTREL™ XC HERBICIDE?

- **Gets to the root of the problem.** Lontrel XC is highly systemic and moves down to the roots to help manage deep rooted perennials
- **Targets hard-to-control weeds.** Controls the toughest broadleaf weeds in corn including certain glyphosate resistant biotypes
- **Crop safety.** Lontrel XC is a different Group 4 than products like dicamba. You can apply with confidence up to the 8 leaf stage without injury or volatility

WEEDS CONTROLLED

- Alsike clover
- Canada thistle
- Common groundsel
- Common ragweed
- Kudzu
- Oxeye daisy¹
- Perennial sow-thistle
- Scentless chamomile
- Sheep sorrel¹
- Vetch
- Volunteer/stands alfalfa
- Wild buckwheat

CROPS

Barley
Canola
Durum wheat
Field corn
Rutabagas
Spring wheat
Sugar beets
Winter wheat

RATES AND ACRES TREATED

Rates:
• 69-202 mL/ac
(Use rates vary by crop)
Field corn: 69-101 mL/ac
Acres treated:
Field corn: 26-39 ac/jug
Water volume:
• 10-20 US gal/ac

PACKAGING

Case:
• 4 x 2.67 L

WHEN TO APPLY

Crop Stage:
• **Field corn:** spike to 8 leaf (V6)
• **Canola:** 2-6 leaf
• **Durum & Spring wheat, Barley:** 3 leaf to flag leaf
• **Winter wheat:** 3 tiller to just before flag leaf
• **Sugar beets:** cotyledon to 8 leaf
Weed Stage:
• Canada thistle, Perennial sow-thistle, Scentless chamomile: rosette to pre-bud
• Volunteer alfalfa: 5-50 cm height

RAINFAST

• 4 hours

HERBICIDE TANK MIXES

May be safely tank-mixed with many other registered herbicides. Refer to the specific crop use recommendations for tank-mix guidance.

Application information

Field Corn: 69 mL/acre: Tank-mix with glyphosate (glyphosate tolerant corn only) for enhanced control of Canada thistle, dandelions, perennial sow-thistle and wild buckwheat.
101 mL/acre: Canada thistle (top growth), vetch and alsike clover

Do not apply to seed corn, sweet corn or popcorn.

Cereals (spring wheat, winter wheat, durum wheat, barley): 69-101 mL/acre: Tank-mix with 2,4-D Ester or Amine, MCPA Ester or Amine

Canola (Ontario only): 101 mL/acre: For top growth control of Canada thistle

Apply at the 2-6 leaf stage of canola.

Sugar Beets: 138-202 mL/acre

Rutabaga: 138 mL/acre: For control of common ragweed

Lontrel™ XC herbicide does not require additional adjuvants or surfactants.

Crop Rotation

Fields previously treated with Lontrel XC can be seeded the following year to wheat, oats, barley, rye (not underseeded with legumes, clover or alfalfa), forage grasses, flax, canola, mustard, soybeans*, sunflowers*, field peas*, sugar beets.

* Refer to product label for detailed information.

Pre-harvest interval

Field corn: allow 40 days after application before harvesting field corn for silage as feed or allowing livestock to graze.

Sugar beets: 90 days.

Rutabaga: 83 days.

Durum wheat: 60 days.

¹ Suppression

HERBICIDE
POST-EMERGENCEGROUP
4

APPLICATION GUIDELINES

Pixxaro™ FLEXX

Arylex™ active

HERBICIDEDurum
WheatSpring
WheatWinter
Wheat

Barley

Spray Pixxaro™ FLEXX herbicide with Arylex™ active when you want, with confidence.

WHY USE PIXXARO™ FLEXX HERBICIDE?

- **Flexibility.** 95% or greater control of most labelled weeds. Whether they are small or large weeds, in early or late crop staging and even in cool or dry conditions
- **Elite performance.** Control your toughest weeds, including glyphosate resistant Canada fleabane, cleavers, chickweed and hemp-nettle and many other broadleaf weeds

WEEDS CONTROLLEDbased on
Pixxaro FLEXX +
MPCA Ester 600

- Annual smartweed*
- Annual sow-thistle
- Ball mustard
- Barnyard grass
(up to the 5-leaf, 2-tiller stage)
- Burdock
(before the 4-leaf stage)
- Canada fleabane²
- Canada thistle
(up to the bolting stage,
30 cm in height)*
- Cleavers¹
- Cocklebur
- Common chickweed
- Common lamb's-quarters
- Common plantain
- Common ragweed²
- Dandelion**
- Field horsetail
(up to 15 cm in height)*
- Field pennycress
- Flixweed
- Giant ragweed²
- Green smartweed*
- Hemp-nettle¹
- Henbit
- Kochia¹
- Lady's-thumb*
- Long stork's-bill
- Nightshade species
(including Eastern black,
Hairy and Cutleaf)
(up to the 6-leaf stage)
- Perennial sow-thistle
(up to the 6-leaf stage)*
- Prickly lettuce
- Redroot pigweed
- Roundleaf mallow
- Shepherd's-purse
- Vetch
- Volunteer alfalfa
(up to 25 cm in height)
- Volunteer canola
- Wild buckwheat
- Wild mustard¹

*Suppression.

** Dandelion suppression - seedlings and over-wintered rosettes up to 30 cm in diameter.

¹ Including ALS resistant.² Including ALS and glyphosate resistant.**CROPS**

Durum wheat

Spring wheat

Winter wheat

Barley

RATES AND ACRES TREATED

Rates:
• 123 mL/ac
Acres treated:
• 80 ac/jug
Water volume:
• 10-20 US gal/ac

**PACKAGING
CASE:**

• 2 x 9.8 L jugs/case

WHEN TO APPLY

Crop Stage:
3-leaf to just prior to flag leaf emergence
Weed Stage:
1-8 leaf (or larger; see label)

RAINFAST

• 1 hour

HERBICIDE TANK MIXES

For broad spectrum broadleaf control, tank-mix Pixxaro™ FLEXX herbicide with a MCPA Ester 600 such as ADAMA MCPA Ester 600 or NuFarm MCPA Ester 600 Liquid Herbicide at 236 ml/ac.

For grass control, tank-mix Pixxaro FLEXX + MCPA Ester 600 with any grass herbicide registered for use in wheat or barley.

Also registered: 2,4-D Ester herbicide. Refer to product label for rates.

Registered fungicides:

Stratego®
Tilt™

Application information

If Pixxaro FLEXX is tank-mixed with a MCPA Ester 600 herbicide, no surfactant is required.

Crop rotation

3 months: Fall rye and winter wheat

6 months: Soybeans

10 months: Spring wheat, spring barley, oats, canola, corn, sunflowers, flax, field peas, potatoes (except seed potatoes), mustard, alfalfa, dry beans (species including pinto, kidney and white types) and timothy or fields can be summer fallowed.

22 months: Lentils

Pre-harvest interval

- The PHI for treated crops is 60 days.
- The PHI for hay or silage is 21 days.

Mixing Instructions

1. Fill the spray tank with ½ to ¾ of the required amount of water
2. Continue agitation throughout the mixing and spraying procedure
3. If water conditioner is required, add now
4. Add the required amount of Pixxaro FLEXX
5. Add the required amount of MCPA Ester 600
6. Complete filling the sprayer tank with water

Prism™ SG**HERBICIDE**

Outstanding post-emergent control of quackgrass, redroot pigweed and annual grasses.

WHY USE PRISM™ SG HERBICIDE?

- Can be used on all types of potatoes, including seed and early maturing varieties
- Flexible re-cropping options

WEEDS CONTROLLED

- Barnyard grass
- Fall panicum
- Green foxtail
- Lamb's-quarters*
- Redroot pigweed
- Quackgrass
- Witchgrass
- Yellow foxtail

**CROPS**

Potatoes

RATES AND ACRES TREATED

- 24 g/ac
- Acres treated:**
 - 20 ac/jug
- Water volume:**
 - 40 L/ac (10 US gal/ac)

PACKAGING

- 12 x 480 g jug

WHEN TO APPLY

- Application to control annual grasses and quackgrass must be made before the crop canopy can interfere with spray coverage of the target weeds.
- Cultivation is NOT recommended within 7-10 days prior to or after application of Prism™ SG herbicide.

RAINFAST

- 4 hours

HERBICIDE TANK MIXES

Prism SG can be tank mixed with Tricor 75DF herbicide post-emergent, plus a non-ionic surfactant i.e. Agral 90 or AgSurf at 2 L per 1000 L of spray solution (0.2% v/v).

Crop rotation

Anytime: Field corn

4 months: Winter wheat

10 months: Spring barley, spring wheat (including durum), oats, canola, soybeans, dry beans, white beans, red clover, sorghum, chickpeas, potatoes, sunflowers, corn (sweet or seed), field peas, lentils, flax and faba beans.

Adjuvant information

Prism SG must be applied with a recommended non-ionic surfactant, either Agral 90 or Ag-Surf, at 2 L per 1000 L spray solution (0.2% v/v).

Pre-harvest interval

The PHI for potatoes is 30 days.

HERBICIDE
POST-EMERGENCEGROUP
4

APPLICATION GUIDELINES

Prominex™

Arylex™ active

HERBICIDE

Prominex™ herbicide with Arylex™ active delivers exceptional control of annual AND perennial broadleaf weeds with the convenience of an all-in-one formulation.

WHY USE PROMINEX™ HERBICIDE?

- **Unmatched Weed Control.** Prominex provides control of both annual AND perennial broadleaf weeds
- **Just GO.** Thanks to Arylex active, you can Just GO on small or large broadleaf weeds, in early or late crop staging, and even in cool or dry conditions
- **Tank Mix Flexibility.** Choose whether to tank mix with a Group 1 grass herbicide in your wheat or barley and a Group 2 grass herbicide in your wheat
- **Convenient Formulation.** All-in-one ME formulation allows for ultimate convenience and easy loading
- **Expanded Group 4 Mode of Action Control.** Tank mix with MCPA Ester 600 or 2,4-D Ester for expanded Group 4 broadleaf weed control

Prominex + 236 mL/ac MCPA Ester 600

GRASS WEEDS CONTROLLED

- Barnyard grass

ANNUAL WEEDS CONTROLLED

- American dragonhead
- Ball mustard
- Burdock
- Canada fleabane**
- Canada thistle
- Chickweed**
- Cleavers**
- Cocklebur
- Common ragweed**
- Cow cockle
- False ragweed
- Flixweed*
- Giant ragweed**
- Hemp-nettle*
- Henbit
- Kochia**
- Lamb's-quarters
- Nightshade species (Eastern black, hairy and cutleaf)
- Plantain
- Prickly lettuce
- Redroot pigweed
- Round-leaved mallow
- Shepherd's purse*
- Stinkweed
- Stork's-bill
- Velvetleaf
- Vetch
- Volunteer alfalfa
- Volunteer canola (all herbicide tolerant varieties)
- Volunteer flax
- Wild buckwheat
- Wild mustard
- Wild radish

WEEDS SUPPRESSED

- Dandelion
- Field horsetail
- Perennial sow-thistle
- Smartweed*

Durum
WheatSpring
WheatWinter
Wheat

Barley

CROPS

Barley
Durum wheat
Spring wheat
Winter wheat

RATES AND ACRES TREATED

- Rates:**
• 414 mL/ac
Acres treated:
• 40 ac/case (20 ac/jug)
Water volume:
• 10-20 US gal/ac

PACKAGING

- Case:**
• 2 x 8.3 L jugs

WHEN TO APPLY

- 3-leaf to just prior to flag leaf emergence

RAINFAST

- 4 hours

HERBICIDE TANK MIXES

- MCPA Ester 600 • 2, 4-D Ester 700
- Simplicity™ GoDRI™

Crop rotation

10 months:

- Barley
- Canola
- Corn
- Flax
- Forage grasses
- Oats
- Mustard

22 months:

- Peas¹
- Fall rye (not underseeded with legumes, clover or alfalfa)
- Soybeans¹
- Summerfallow
- Wheat
- Lentils
- Chickpeas

¹For pea or soybean rotation, rainfall from June 1 to August 31 in the year of application must be greater than 140 mm (5.5 inches) and annual rainfall must be greater than 175 mm (6.9 inches).

*Including Group 2 resistant biotypes

**Including Groups 2 and 9 resistant biotypes

For a complete weed list and specific weed staging, please refer to the product label.

Simplicity™

GoDRI™

HERBICIDE

Simplicity™ GoDRI™ herbicide delivers superior control of wild oats, annual grass and broadleaf weeds with no re-cropping restrictions. It comes in a convenient, easy-to-use, highly concentrated, low dose formulation.

WHY USE SIMPLICITY™ GoDRI™ HERBICIDE?

- **Effective resistance management with a wide application window.** The only Group 2 wild oat herbicide that can be applied up to the flag leaf stage
- **Exceptional flexibility.** Allows for tank-mixing with many crop protection products such as Pixxaro™ FLEXX herbicide
- **Convenient formulation.** GoDRI Rapid Dispersion Technology is a highly concentrated easy to use formulation

WEEDS CONTROLLED

Group 1 resistant wild oats, and bonus broadleaf weeds in wheat.

Grass

- Barnyard grass
- Downy brome
- Green foxtail*
- Japanese brome
- Wild oats
- Yellow foxtail

Broadleaf

- Canada thistle*
- Cleavers
- Common chickweed
- Corn spurry
- Cowcockle
- Dandelion*
- Field pennycress
- Flixweed
- Hemp-nettle
- Lady's-thumb
- Redroot pigweed
- Roundleaf mallow
- Russian thistle*
- Shepherd's-purse
- Smartweed*
- Volunteer canola (excluding Clearfield*)
- Wild buckwheat*



Durum
Wheat



Spring Wheat



Winter
Wheat

CROPS

Durum wheat
Rye
Spring wheat
Tritcale
Winter wheat

RATES AND ACRES TREATED

Rates:

• 28 g/ac

Acres treated:

• 80 ac/jug (320 ac/case)

Water volume:

• 10-20 US gal/ac

PACKAGING

Case:

• 4 x 2.24 kg jugs

WHEN TO APPLY

Crop Stage:

2-leaf stage to the flag leaf stage

Weed Stage:

Wild oats: 1 to 6 leaf

Broadleaf weeds: 1 to 5 leaf

RAINFAST

• 2 hours

HERBICIDE TANK MIXES

Broadleaf herbicides:

2,4-D Ester
Buctril™ M
MCPA™ Ester
Pixxaro™ FLEXX
Refine™ SG

Fungicides:

Acapela™
Stratego™
Tilt™

Application information

Simplicity™ GoDRI™ herbicide always requires the addition of a non-ionic surfactant (NIS) at 0.25% v/v such as: Agral 90 at 0.25% v/v, Sentry™ at 0.25% v/v, Ag-Surf Original at 0.25% v/v.

Crop rotation

10 months: Field corn, sunflower and potatoes

11 months: Barley, brown mustard, canola, dry beans (species including pinto, kidney and white types), flax, canola, lentils, oats, field peas, chickpea, spring wheat, soybean and yellow mustard or fields can be summer fallowed

Pre-harvest interval

- The PHI is 50 days.

*Suppression. Corteva Agriscience research trials indicate that application to small stage, actively growing plants provides an increased level of control.

Steadfast™ IS

HERBICIDE

Steadfast™ IS herbicide provides robust post-emergence grass control in field corn including non-GMO hybrids.

WHY USE STEADFAST™ IS HERBICIDE?

- **Proven control of annual grasses.** Steadfast IS provides dependable control of key annual grasses such as green foxtail and wild oats
- **Crop safety under a wide range of conditions.** Includes a safener allowing for use on short season hybrids
- **Wide window.** Steadfast IS can be safely applied to field corn up to the 8 leaf stage (V6)

WEEDS CONTROLLED

- Green foxtail
- Volunteer canola
- Volunteer wheat
- Wild oats



Field Corn

CROPS

Field corn

RATES AND ACRES TREATED

- Rates:**
- 27 g/ac
- Acres treated:**
- 20 ac/bottle
- Water volume:**
- 10-20 US gal/ac

PACKAGING

- Case:**
- 6 x 540 g bottles

WHEN TO APPLY

- Crop Stage:**
- Spike to 8 leaf (V6)
- Weed Stage:**
- Annual grasses: 1-4 leaf (up to early tillering)
 - Volunteer canola: cotyledon to 5 leaf

RAINFAST

- 2 hours

HERBICIDE TANK MIXES

Non-GMO field corn:

Steadfast™ IS herbicide can be tank-mixed with registered broadleaf herbicides to ensure cross-spectrum control of grass and broadleaf weeds

Glyphosate Tolerant Corn:

Glyphosate

Application information

When using Steadfast IS in conventional corn, it must be tank-mixed with a non-ionic surfactant at 2 L/1000 L (0.2% v/v).

Steadfast IS must be applied only when the temperature in the 24 hours before and after application ranges between 5°C and 30°C. Temperatures beyond this range increase the potential for crop response. Make only one application per growing season.

For maximum crop safety, Steadfast IS should only be applied to corn which has not been treated with a highly systemic organophosphorus soil insecticide. Do not tank-mix with any organophosphorus insecticide. Do not apply a foliar organophosphorus insecticide within 7 days before or after applying Steadfast IS.

Crop rotation

4 months: Winter wheat

10 months: Spring wheat (including durum), oats, barley, canola, soybeans, dry beans, white beans, chickpeas, potatoes, sunflowers, corn (sweet or seed), field peas, lentils and flax

Anytime: Field corn

Pre-harvest interval

- 30 days for corn (silage, fodder or grain).

fungicides

BY CROP

Corn		Soybeans		Cereals		Potatoes	
Acapela™	32	Acapela™	32	Acapela™	32	Tanos™	33
		Viatude™	34				

FUNGICIDE
POST-EMERGENCEGROUP
11

APPLICATION GUIDELINES

Acapela™

FUNGICIDE



Canola



Cereals



Corn



Dry Legumes



Flax



Soybeans

Protect your soybean and corn crops against key diseases with Acapela™ fungicide, a unique Group 11 fungicide.

WHY USE ACAPELA™ FUNGICIDE?

- **Unique movement properties** that quickly and efficiently surrounds, penetrates and protects
- **Rapidly absorbed**, moving quickly into and within each plant
- **Supports positive plant performance** by increasing chlorophyll content and plant productivity, even in stressful conditions

DISEASES CONTROLLED

Soybeans

- Septoria brown spot
- Frogeye leaf spot
- Asian soybean rust
- White mould¹

Corn (field, sweet, seed, popcorn)

- Northern corn leaf blight
- Tar Spot¹

Canola

- Sclerotinia stem rot

Cereals (barley, oats, rye, triticale, wheat)

- Scald (barley and rye)
- Crown rust (oats)
- Septoria leaf blotch (wheat, rye, barley and triticale)
- Leaf rust (wheat, rye and triticale)
- Net blotch (barley)
- Powdery mildew (cereal grains)
- Stripe rust (cereal grains)
- Tan spot (wheat)

Dry legumes

- Anthracnose (dry beans)
- Asian soybean rust
- Mycosphaerella blight¹ (field peas)
- White mould¹

Potatoes

- Early blight
- Late blight
- White mould

Flax

- Pasma

CROPS

Canola

Cereals

Field corn

Seed corn

Sweet corn

Dry legumes

Flax

Popcorn

Soybeans

RATES AND ACRES TREATED

Rates:

- 0.21 to 0.35L/ac

Water volume:

Ground: 10 US gal/ac minimum
Air: 4.5 US gal/ac minimum

• Soybeans:

For white mould (Sclerotinia)
– 0.35 L/ac (27 ac/jug)
For Asian soybean rust, Brown spot (Septoria) and Frogeye leaf spot (Cercospora sojina)
– 0.24 to 0.35L/ac (27-40 ac/jug)

• Corn (field, sweet, seed, popcorn):

For Northern corn leaf blight
– 0.21 to 0.32L/ac (30-45 ac/jug)

PACKAGING

Case:

- 2 x 9.6 L Jugs

WHEN TO APPLY

- Use sufficient water to obtain thorough coverage of plants. Minimum aerial application volume is 4.5 US gal/ac and minimum ground application volume is 10 US gal/ac.
- Make no more than 2 sequential applications of Acapela™ fungicide before switching to a fungicide with a different mode of action registered for the same use.

RAINFAST

- 1 hour

Application information

Soybeans:

For white mould, make initial preventative application at R1 (beginning bloom). Follow with 2nd application 7-10 days later at R2 (full bloom).

For Asian soybean rust, brown spot (*Septoria*) and frogeye leaf spot (*Cercospora sojina*) begin applications prior to disease development and continue on a 7 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.

For foliar diseases, the optimal time for application is typically at the R2 to R3 growth stage (full bloom to beginning pod).

Corn (field, sweet, seed, popcorn):

For Northern corn leaf blight begin applications prior to disease development and continue on a 7 to 14 day interval. Use higher rate and shorter interval when disease pressure is high.

For optimal disease control, apply at full tassel (VT) to milk stage (R3) corn.

Crop Rotation

Any crop the following year.

Pre-harvest interval

- The PHI for corn harvested for grain is 7 days, while corn used for grazing or forage is 0 days.
- The PHI for soybeans is 14 days.

¹Suppression

Tanos™**FUNGICIDE**

Potatoes

Powerful multi-mode of action disease control of both early and late blight in potatoes.

WHY USE TANOS™ FUNGICIDE?

- **Resistant to wash-off.** A portion of the product remains on the leaf surface and within the waxy cuticle, making it resistant to wash-off and providing excellent control of early blight
- **Control.** Rapidly penetrates the leaf surface to provide both post infection and locally systemic control of late blight
- **Resistance management.** Tanos combines both Group 11 and 27 fungicides making it an effective resistance management tool

DISEASES CONTROLLED**Potatoes**

- Early blight
- Late blight

CROPS

Potatoes

RATES AND ACRES TREATED

- **Rates for Potatoes:** 226–340 g/ac
- **Acres treated:** 10–15 ac/bag

PACKAGING

- 4 x 3.4 kg bag/case

Water volume:

- Ground: minimum 26 US gal/ac
- Aerial: minimum 5 US gal/ac

WHEN TO APPLY

- **Potatoes:** Initial applications should start when local conditions indicate that late blight is imminent. A minimum 12 day application interval must pass between the 1st and 2nd application of Tanos™ fungicide. A minimum 24 days application interval must pass between the 2nd and 3rd application of Tanos. Apply Tanos in a preventative program.

Mixing instructions

1. Fill spray tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of Tanos.
3. Continue agitation until the Tanos is fully dispersed, at least 5 minutes.
4. Once the Tanos is fully dispersed, maintain agitation and continue filling tank with water. Tanos should be thoroughly mixed with water before adding any other product.
5. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly reagitrate before using.
6. Apply spray mixture within 12 hours of mixing to avoid product degradation.

Crop rotation:

Any crop the following year.

Pre-harvest interval

The PHI for potatoes is 14 days.

Viatude™

Onmira™ active

FUNGICIDE

Unleash best-in-class white mould protection for strong and vigorous soybeans maximizing yield potential.



WHY USE VIATUDE™ FUNGICIDE?

- Combining the power of **two of the strongest modes of action** on yield-limiting white mould
- Rapidly absorbed, powered by the trusted **systemic action** from Onmira™ active
- Maximizes yield potential** in the presence or absence of diseases
- Convenient, all in one formulation

DISEASES CONTROLLED

Soybeans

- White mould¹
- Asian soybean rust
(*Phakospora pachyrhizi*)
- Brown spot
(*Septoria glycines*)
- Frogeye leafspot
(*Cercospora sojina*)

CROPS

Soybeans

RATES AND ACRES TREATED

Rates:

- 0.30 to 0.34 L/ac

Acres treated: 27 – 30 ac/jug

Soybeans:

For white mould (Sclerotinia) – 0.34 L/ac

Water volume:

- 15–20 US gal/ac

PACKAGING

Case:

- 2 x 8.91 L jugs

WHEN TO APPLY

- Apply prior to disease development
- From early flower to mid-pod development (R1 to R3)
- Make no more than 2 sequential applications of Viatude™ fungicide before switching to a fungicide with a different mode of action registered for the same use.

TANK MIXES

Follow the label recommendations from both product labels of tank mix partners.

Mixing instructions

- Shake well before use.
- Fill clean spray tank 1/4 – 1/2 full of water.
- While agitating, add the required amount of Viatude™ fungicide, continuing agitation until the product is completely dispersed.
- Continue filling the tank with agitation

Crop rotation:

Any crop can be planted 30 days following last application of Viatude.

Pre-harvest interval

The PHI for soybeans is 20 days.

¹Suppression

insecticides

BY CROP

Corn



Closer™	36
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Intrepid™	38

Soybeans



Delegate™	37
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Wheat



Delegate™	37
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Potatoes



Closer™	36
Delegate™	37

Dried Beans



Intrepid™	38
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Closer™

Isoclast™ active

INSECTICIDE

Exceptional speed and control of aphids and scale in vegetable, fruit and field crops.



Corn



Potatoes

WHY USE CLOSER™ INSECTICIDE?

- **Fast-acting with residual control.** Apply Closer™ insecticide with Isoclast™ active for quick targeted control of sap feeding insects such as aphids, scales and leafhoppers when outbreaks occur
- **Moves throughout the plant.** Excellent systemic and translaminar activity
- **Valuable rotational partner.** A unique sub-class of insecticides, Isoclast™ active is effective against both resistant and non-resistant pests
- **Virus reduction.** Closer's rapid results decrease the chance of virus transmission in seed potato production
- **Selective.** Can be used safely around beneficial insect populations when used according to the product label

INSECTS CONTROLLED

Corn

- Aphids

Potatoes

- Aphids
- Leafhoppers
- Tarnished plant bugs

CROPS

Field corn

Popcorn

Seed corn

Sweet corn

Potatoes

RATES AND ACRES TREATED

Potatoes:

- Aphids: 20 – 61 mL/ac
- Leafhoppers: 121 mL/ac
- Tarnished plant bugs: 121 mL/ac

Corn (field, sweet, seed and popping):

- Aphids: 30 – 61 mL/ac

Acres treated: depends on the pest

Water volume:

- Ground: minimum 11 US gal/ac
- Aerial: minimum 3.5 US gal/ac

PACKAGING

- 12 x 1 L jugs

INSECTICIDE TANK MIXES

- No registered tank-mixes.

Application instructions:

Ground application: boom height must be 60 cm or less above the crop or ground, use a minimum of 11 US gal/ac of water to ensure thorough coverage of plant foliage.

Aerial application: use a minimum spray volume of 3.5 US gal/ac. Refer to the section of the label titled Aerial Application for detailed use instructions.

Pre-harvest interval:

- The PHI for sweet corn, forage corn and potatoes is 7 days.
- The PHI for grain corn and stover harvest is 14 days.

Delegate™

Jemvelva™ active

INSECTICIDE

Stay one step ahead of Western bean cutworm and European corn borer in corn.

WHY USE DELEGATE™ INSECTICIDE?

- **Performance.** Delegate™ insecticide with Jemvelva™ active provides quick and effective control of foliage feeding insects including Western bean cutworm and European corn borer
- **Resistance management.** Delegate contains a unique Group 5 active ingredient, Jemvelva active, making it an excellent Integrated Pest Management tool
- **Ease of use.** Low use rates delivered through a convenient dry formulation

INSECTS CONTROLLED

Corn

- European corn borer
- Western bean cutworm

Wheat

- Armyworm

Soybeans

- Armyworm

Potatoes

- Colorado potato beetle
- European corn borer



Corn



Potatoes



Soybeans



Wheat

CROPS

Field corn

Popcorn

Seed corn

Soybeans

Sweet corn

Wheat

Potatoes

RATES AND ACRES TREATED

- **Corn:**
 - Western bean cutworm: 50 – 85 g/ac
 - European corn borer: 50 – 85 g/ac
- **Wheat and soybeans:**
 - Armyworm: 40 – 80 g/ac
- **Potatoes:**
 - Colorado potato beetle: 65 – 97 g/ac
 - European corn borer: 65 g/ac

Acres treated: depends on the pest

Water volume:

- Ground: minimum 20 US gal/ac
- Aerial (corn and potatoes only): minimum 3.5 US gal/ac

PACKAGING

Case:

- 6 x 840 g bottles

WHEN TO APPLY

- Western bean cutworm and European corn borer: time the application at egg hatch or to small larvae.
 - Armyworm: time the application at peak egg hatch and/or small larvae stage.
 - Colorado potato beetle: time the application at egg hatch or small larvae.
- Use the higher rate for higher pest pressure or for larger larvae. Ensure sufficient water volume for complete coverage of the plant foliage.

RAINFAST

- 2 hours

INSECTICIDE TANK MIXES

- Delegate™ insecticide can be tank-mixed with fungicides and micro-nutrients. Consult your Corteva Agriscience representative if you are tank-mixing Delegate.

Application information

Ground application: use spray equipment capable of thorough coverage of the crop, ensuring uniform coverage of the target pest.

Aerial application (for potatoes and corn only): apply only by fixed wing or rotary aircraft equipment. Use a minimum spray volume of 3.5 US gal/ac.

A spray solution pH between 5 and 9 is preferred for optimal performance.

Crop rotation

- Rotate to labelled crops only.

Pre-harvest interval

- The PHI for sweet corn and seed corn is 1 day.
- The PHI for forage and potatoes is 7 days.
- The PHI for wheat is 21 days.
- The PHI for field corn, popcorn, stover harvest and soybeans is 28 days.

Intrepid™

INSECTICIDE

Performance and peace of mind. With Intrepid™ insecticide, there's no need to choose.



Corn



Dried Beans

WHY USE INTREPID™ INSECTICIDE?

- **Two-pronged attack on pests.** Intrepid has both ovicidal and larvicidal activity. Ingestion is the main source of activity on pests, causing the larvae to cease feeding within 24 hours
- **Ideal for Integrated Pest Management programs.** Intrepid controls lepidopterous pests without adversely affecting beneficial insects such as bees when used according to the product label

INSECTS CONTROLLED

Corn

- European corn borer
- Western bean cutworm

Dried beans

- Western bean cutworm

CROPS

Corn (field, sweet, seed and popcorn)

Dried beans

RATES AND ACRES TREATED

Corn:

- European corn borer
• 0.12 – 0.24 L/ac
- Western bean cutworm
• 0.24 L/ac

Dried beans:

- Western bean cutworm
• 0.24 L/ac

Acres treated: depends on the pest

Water volume:

- Ground: minimum 32 US gal/ac

PACKAGING

- 4 x 4 L jugs

WHEN TO APPLY

- European corn borer: Apply at the first signs of feeding damage. Direct application at the whorl for early season (first generation) infestations. Use the higher rate for heavy infestations, or larger crop canopies.
- Western bean cutworm: Applications should be timed at egg hatch or to small larvae.

INSECTICIDE TANK MIXES

- No registered tank mixes

Mixing instructions

Ground application only: apply in sufficient spray volume to ensure uniform coverage of the treated crop.

Pre-harvest interval

- The PHI for sweet corn is 3 days.
- The PHI for dried beans is 7 days.
- The PHI for field corn and popcorn is 21 days.

biologicals & nitrogen stabilizer

BY CROP

Corn



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Canola



eNtrench NXTGEN™.....	50
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Cereals



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Soybeans



Bio-Forge™ Premier.....	43
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Dry Beans



Bio-Forge™ Premier.....	43
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Potatoes



Bio-Forge™ Premier.....	43
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Wheat



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BIOLOGICALS

biologicals

Growing Together

Corteva Agriscience biological products offer Canadian farmers innovative solutions to combat weed, pest, disease, and climate pressures.

What is a Biological?

Biological products from Corteva consist of materials that already exist in nature. Some of our products are actual living organisms, like beneficial bacteria. Others, like enzymes, are derived from natural materials.

Maximize your Acre with Biologicals

Our pipeline is full of exciting new developments. Expect more biological solutions from Corteva in these categories, coming soon:

Boost Performance

Activate the plant and its environment to maximize genetic potential by enhancing the plants' ability to efficiently utilize soil, nutrients, water, and sunlight.

Build Resilience

Empower crop vigour to withstand adversity and stress by enabling crops to thrive in the face of abiotic stresses and unfavourable weather.

Protect Potential

Shield crops from pests to ensure viability by incorporating powerful and flexible solutions in crop protection programs.



Why Choose Biologicals?

Optimize Productivity

Biologicals can improve plant performance by unleashing their full potential – enhancing physiological processes and minimizing stresses.

Next Level Crop Management

Biologicals give us the ability to take our crop management to the next level. Giving you the peace of mind to manage unpredictability and control the uncontrollable, helping you unlock new levels of on-farm potential.

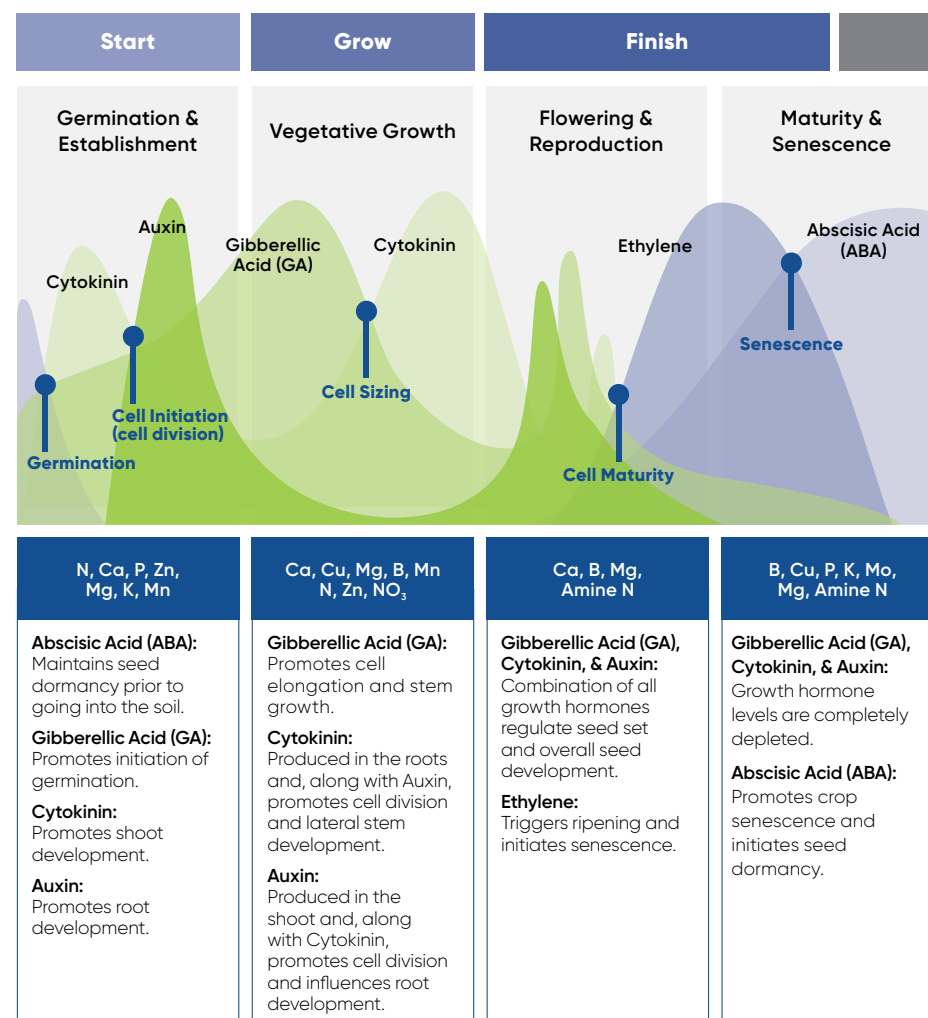
Sustainable Production

Biologicals are here to create the highest impact for everyone, and everything involved – the farm, the environment and our planet, government, and society.

PLANT HORMONE CYCLE

Plant hormones, nutrients, and hormone co-factors regulate plant growth and reproduction much like hormones, nutrition, and vitamins regulate growth in humans and animals.

Auxin and Cytokinin give birth to new cells. Auxin then directs food movement to the new cells and with Cytokinin, stimulates cell growth. Gibberellic Acid, which is made inside the new cell, controls the rate of movement of food into the new cell and its size.



BIOLOGICALS

CORTEVA AGRISCIENCE BIOLOGICALS APPROACH

Corteva takes a distinctive approach to addressing crop challenges that goes beyond traditional agronomic applications. Corteva places a strong emphasis on maintaining hormone balance and plant nutrition to foster the development of robust and healthy crops. This approach not only improves crop health but also enhances their natural defense mechanisms, making them better equipped to withstand environmental stressors, diseases, and pests. Corteva's commitment to plant health management represents a forward-thinking strategy that promotes sustainable and high-yield agriculture while minimizing the environmental impact of farming practices.

Environmental/Physiological Stresses

Corteva products are at the forefront of addressing environmental and physiological stresses in agriculture. By enhancing nutrient absorption, promoting plant health, and managing plant hormone balance they empower crops to withstand adverse environmental conditions and promote sustainable farming practices.

CHALLENGE	SOLUTION
Frost Damage	Bio-Forge™ PREMIER STRESS MITIGATION Applied 24–72 hours after damage has occurred
Wind Damage	
Herbicide Damage	
Hail Damage	
Heat Blast	X-Cyte™ PHYSIOLOGICAL SUPPORT Applied during flowering, before the onset of heat

Seeding Challenges

Corteva biological seed treatments optimize seed performance, leading to healthier crops, improved root development for crops seeded in saline soils, and also enable early planting in cold conditions. Corteva innovations are revolutionizing crop production by enhancing yield, sustainability, and resilience.

CHALLENGE	SOLUTION
Cold Soils	Bio-Forge™ PREMIER STRESS MITIGATION Apply on seed
Poor Germination	
	Fortified Stimulate™ YIELD ENHANCER PHYSIOLOGICAL SUPPORT Apply on seed

Nutrient Efficiency

Nitrogen is essential for plant survival and a key element for optimal crop health. Ensuring nitrogen is available to your crop during key stages of growth is vital for maximizing plant productivity. By increasing nitrogen availability through the use of products such as biostimulants, we can promote healthier plants and help maximize crop potential by providing continuous supplemental nitrogen – ensuring crops have access to it when they need it most.

CHALLENGE	SOLUTION
NUTRIENT EFFICIENCY	
N Nitrogen	Utrisha™ N NUTRITIONAL EFFICIENCY
B Boron	Sugar Mover™ PREMIER PHYSIOLOGICAL SUPPORT
Zn Zinc	X-Tra Power™ NUTRITIONAL FOUNDATIONS

CORTEVA AGRISCIENCE PRODUCT SOLUTIONS

Corteva offers a comprehensive range of product solutions tailored to various stages of the crop life cycle. With seed treatment solutions that provide an excellent starting point, enhancing seed health and vigour to give crops a robust beginning. In-furrow products are designed to deliver essential nutrients and biostimulants directly to the developing plant roots, ensuring optimal growth from the early stages. Corteva's in-season product solutions offer effective protection to aid in stress mitigation and overall crop health. By promoting a strong start to a strong finish for the growing season, Corteva's solutions contribute to healthier plants, increased yields, and improved agricultural sustainability.



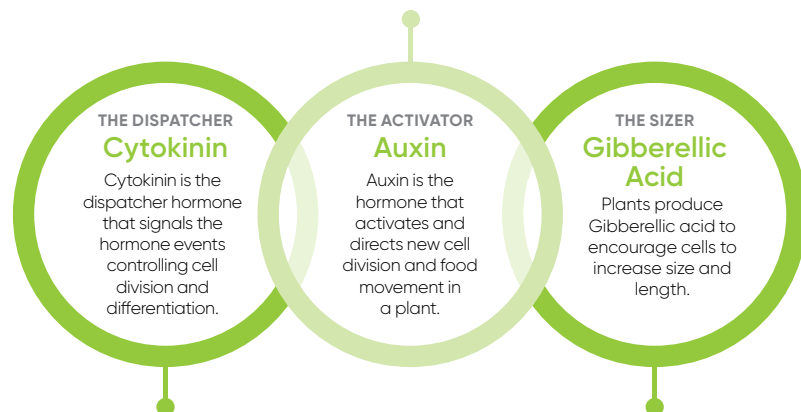
PRODUCTS	SEED TREATMENTS	IN-FURROW	VEGETATIVE GROWTH (HERBICIDE TIMING)	REPRODUCTIVE GROWTH (FUNGICIDE TIMING)	MATURITY
Fortified Stimulate™ YIELD ENHANCER PHYSIOLOGICAL SUPPORT	Promote Germination	Promote Growth	Improve Seed Set	Crop Stress Management	
Bio-Forge™ PREMIER STRESS MITIGATION					
Sugar Mover™ PREMIER PHYSIOLOGICAL SUPPORT				Fill Pods, Heads and Ears	
X-Cyte™ PHYSIOLOGICAL SUPPORT				Heat Blast Protection	
Utrisha™^N NUTRITIONAL EFFICIENCY			Nutrient Efficiency		

BIOLOGICALS

GROWTH HORMONES

Plant growth hormones, also known as phytohormones, are essential chemical messengers that govern various aspects of plant growth and development. These hormones include Auxins, Gibberellins, and Cytokinins, each with its unique functions.

Auxins regulate phototropism, the bending of plant stems and leaves towards light. This response is crucial for optimizing photosynthesis and is controlled by the redistribution of Auxin hormone in response to light.



Cytokinins are involved in regulating many stress-responsive genes in plants, including those related to heat stress. They can help plants adapt to challenging environments and improve their overall stress tolerance.

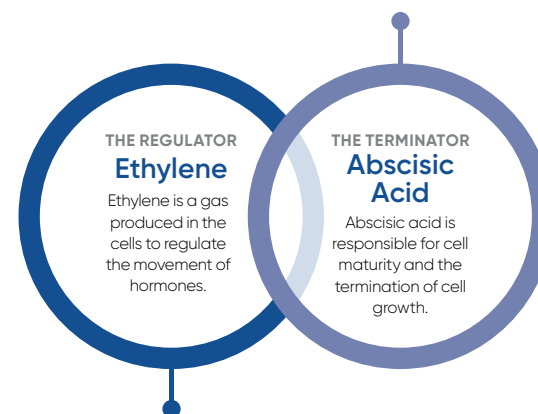
Seed have a natural dormancy period, a protective mechanism that prevents them from germinating in unfavorable conditions. **Gibberellic Acid (GA)** helps break this dormancy by stimulating the synthesis of enzymes that convert stored nutrients into forms usable for germination.

These hormones work together to coordinate vital processes such as seed germination, flowering, and responses to environmental cues, ensuring that plants adapt and thrive in their surroundings.

STRESS HORMONES

Stress hormones in plants are signaling molecules that play a vital role in helping plants respond and adapt to various environmental stresses. When a plant encounters stress, stress hormones increase, leading to physiological responses like stomatal closure to reduce water loss, the synthesis of stress-related proteins to enhance resilience, and altered root growth patterns to explore for water sources.

Absciscic Acid plays a key role in regulating seed dormancy. It inhibits germination in many seeds, preventing them from sprouting prematurely. This dormancy mechanism ensures that seeds only germinate when environmental conditions are favorable for survival.



Ethylene plays a role in plant responses to various stresses, including mechanical stress, pathogen attack, and environmental stressors like drought and high salinity.

These stress hormones act as critical mediators, allowing plants to survive and thrive in challenging conditions by initiating protective mechanisms and enhancing their overall stress tolerance.

PLANT BIOSTIMULANT |
SEED TREATMENT, FOLIAR – STRESS RECOVERY

APPLICATION GUIDELINES

Bio-Forge™ PREMIER

STRESS MITIGATION



Cereals



Corn



Dry Beans



Potatoes



Soybeans

BIO-FORGE™ PREMIER

- Combines **three modes of action** to deliver the broadest spectrum of physical crop management.
- **Enhances crop resilience** by aiding in the recovery of stress caused by cold, frost, herbicides, insects, and hail.
- **Increases plant productivity** by enabling the plant to quickly resume growth and spend less time recovering, resulting in less days lost during the growing season.
- Built with the **highest quality ingredients**, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility, and reliable shelf-stability.

Take Control of Crop Stress

In response to physical stress, plant hormones suppress growth pathways and activate survival mechanisms, closing stomata to conserve water. Slowed growth conserves energy and nutrients but delayed plant development can make plants more vulnerable to attacks from pests and pathogens.

By providing the plant with supplemental growth hormones and key nutrients (Cytokinin, Molybdenum, and Cobalt), Bio-Forge Premier ensures the plant is more equipped to efficiently recover from stress caused by frost, hail, wind, insect, or herbicide damage, and quickly resume growth rather than focus on recovery – leading to greater plant productivity and yield potential.

CROPS

Cereals

Corn

Dry Beans

Potatoes

Soybeans

INGREDIENTS

- Cytokinin (0.0075%)
- Nitrogen (3%)
- Soluble Potash (1%)
- Cobalt (1%)
- Molybdenum (1%)

FOLIAR RATE

- 250 mL/ac up to 500 mL/ac following physical damage

SEED TREATMENT RATE

- 120 mL/100 lbs of seed**

TIMING

- Herbicide timing, or for best results, 24-72 hours after physical damage

PRODUCT SIZE

- 1,000 L tote
- 2 x 10 L case

WATER VOLUME

- Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
- Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

*see label for additional crop registrations

**see label for specific crop recommendations



Untreated

Treated with
Bio-Forge Premier

Untreated

Treated with
Bio-Forge Premier

Fortified Stimulate™

YIELD ENHANCER



PHYSIOLOGICAL SUPPORT

FORTIFIED STIMULATE™ YIELD ENHANCER

- Fortified Stimulate Yield Enhancer is the only plant growth promoter that contains four plant growth hormones – **delivering balanced and improved plant growth.**
- **Accelerates and increases root and shoot development**, improving plant competitiveness to maximize crop potential.
- Built with the **highest quality ingredients**, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.

Optimize the Genetic Potential of Every Plant in Your Field

Strategically formulated to ignite robust plant growth, Fortified Stimulate Yield Enhancer contains a patented formulation of four critical plant growth hormones – Cytokinin, Gibberellic acid (GA), and Auxins (IBA and IAA). Fortified Stimulate Yield Enhancer increases the levels of these naturally occurring

hormones, improving the plants growth potential, and optimizing essential plant functions. As a result, the solution accelerates root development, promotes bigger and more robust plants that will be more resilient to stress – increasing yield potential and plant productivity.



Untreated

Treated with
Fortified Stimulate Yield Enhancer

CROPS*

Cereals
Corn
Potatoes
Soybeans

INGREDIENTS

- Cytokinin (0.009%)
- Gibberellic acid (0.005%)
- Indole-3-butyric acid (0.005%)
- Indole-3-acetic acid (0.005%)

RATE

- Foliar: 125 – 250 mL/ac
- Seed Treatment: 65 mL/100 lbs of seed

TIMING

- Seed treatment and/or herbicide timing

PRODUCT SIZE

- 1,000 L tote
- 2 x 10 L case

WATER VOLUME

- Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
- Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

*see label for additional crop registrations

Sugar Mover™ PREMIER



PHYSIOLOGICAL SUPPORT

SUGAR MOVER™ PREMIER

- Promotes uniform seed development by **improving sugar distribution** from leaves.
- Stimulates cell division and promotes **flower development** for increased yield potential.
- Built with the **highest quality ingredients**, resulting in guaranteed analysis of actives for consistent performance.

Improved Sugar Distribution

Sugar availability is essential to plant growth, helping to maximize flower production and seed development. By enhancing naturally occurring hormone levels and providing key nutrients, Sugar Mover Premier accelerates the transport of sugars produced through photosynthesis in the leaves to essential growth areas.

Supplementary boron helps to ensure that the sugars in the plant get to where they need to go by keeping the transport

channels in the plant strong. Additionally, it plays a critical role in delivering pollen for successful fertilization. Cytokinin not only stimulates cell division in the plant, but also promotes flower development and prevents premature senescence. This allows the plant's leaves to photosynthesize longer and prolongs the flower's fertilization period – improving plant productivity and increasing yield potential.



Corn



Potatoes



Soybeans



Wheat

CROPS*

Corn

Potatoes

Soybeans

Wheat

INGREDIENTS

- Cytokinin (0.003%)
- Boron (8%)
- Copper (0.2%)
- Molybdenum (0.004%)
- Monoethanolamine (16%)
 - Total Nitrogen (3%)

RATE

- Foliar: 500 mL – 1 L/acre

TIMING

- Fungicide timing

PRODUCT SIZE

- 1,000 L tote
- 2 x 10 L case

WATER VOLUME

- Ground: 20 L/ac – 40 L/ac (5 – 10 US gal/ac)
- Aerial: 10 L/ac – 20 L/ac (3 – 5 US gal/ac)

*see label for additional crop registrations



Utrisha™ N**NUTRITIONAL EFFICIENCY**

Corn



Potatoes



Soybeans



Wheat

UTRISHA™ N NUTRIENT EFFICIENCY BIOSTIMULANT

- Maximizes crop potential by increasing nitrogen availability, resulting in **healthier and more resilient plants**.
- **Compliments and diversifies a conventional nitrogen fertilizer program** by providing nitrogen at critical times during the plant's life cycle.
- **The simplest way to provide supplemental nitrogen**, giving you the peace of mind that your crop can continue to be its most productive.
- Contains a natural bacteria, providing a sustainable source of nitrogen that **reduces dependency of nitrogen uptake from the soil**.

Give your Crop the Nitrogen It Needs, When It Needs It

Utrisha™ N is a nutrient efficiency biostimulant. The natural bacteria, *Methylobacterium symbioticum*, enters the plant through the stomata and colonizes in the leaf cells. It then converts N₂ from the air into ammonium, resulting in a constant supply of nitrogen to 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 gasses.



Untreated

Treated with Utrisha N
nutrient efficiency biostimulant**CROPS***

Corn

Potatoes

Soybeans

Wheat

INGREDIENTS

- Exclusive nitrogen-fixing microbial strain, *Methylobacterium symbioticum*

FOLIAR RATE

- 135 g/ac (40 ac/bag)

TIMING

- Canola, cereals, corn: 4 leaf stage until pre-senescence
- Soybeans: 3 leaf stage until pre-senescence
- Potatoes: during active growth
- For best results apply in early morning when leaf stomata are open

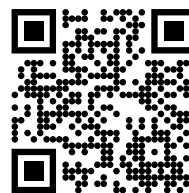
PRODUCT SIZE

- 1 case – 2 x 5.39 kg bags

WATER VOLUME

- Ground: minimum 40 L/ac (10 US gal/ac)

*see label for additional crop registrations

**UTRISHA™ N SUPPORTED TANK MIX LIST**

X-Cyte™**PHYSIOLOGICAL SUPPORT****X-CYTE™**

- Protects yield potential by **reducing kernel abortion** during times of excess heat.
- Helps improve overall crop resilience by **delaying premature senescence** caused by heat loss.
- Built with the **highest quality ingredients**, resulting in guaranteed analysis of actives for consistent performance, extensive tank-mix compatibility.

Beat the Heat with X-Cyte™

Heat Blast occurs when a combination of hot days (35° C or warmer) and warm nights (16° C or warmer) occurs. When temperatures rise to these levels in your crop, the growth hormone Cytokinin begins to degrade within your plants, often resulting in kernel abortion.

X-Cyte supplements the plant with additional Cytokinin, a naturally occurring hormone, that helps boost cell growth – improving photosynthesis and preventing plant tissues from maturing too quickly. As a result, the plants sustain photosynthetic activity and maintain nutrient and water uptake for continued plant growth and optimized yield potential.



Corn Tip Back: Effects of heat blast on corn resulting in kernel abortion



Corn



Dry Beans



Potatoes



Soybeans

CROPS*

Corn

Dry Beans

Potatoes

Soybeans

INGREDIENTS

- Cytokinin (0.04%)

FOLIAR RATE

- 500 mL/ac

TIMING

- Fungicide timing, should be applied during VT-R1 staging, before the onset of a heat event

PRODUCT SIZE

- 1,000 L tote
- 2 x 10 L case

WATER VOLUME

- Ground: 20 L/ac - 40 L/ac (5 - 10 US gal/ac)
- Aerial: 10 L/ac - 20 L/ac (3 - 5 US gal/ac)

*see label for additional crop registrations

Golden Harvest™**NUTRITIONAL FOUNDATIONS**

Golden Harvest™ is a unique liquid fertilizer (5-18-2-1) with high levels of micronutrients (B, Cu, Mn, Mo & Zn) and nutrient enhancing fulvic acid designed to supplement soil-applied fertilizer for prevention of nutrient deficiencies. For more information on key micronutrients, see page 49.

WHAT IS HEAT BLAST?

Heat blast on crops refers to the damaging effects of prolonged exposure to excessively high temperatures. This stress condition can cause scorched leaves, along with delayed silk emergence and pollen desiccation. In corn, heat stress (a.k.a. heat blast/tip back) can lead to poor synchrony with pollen shed, reducing kernel numbers.

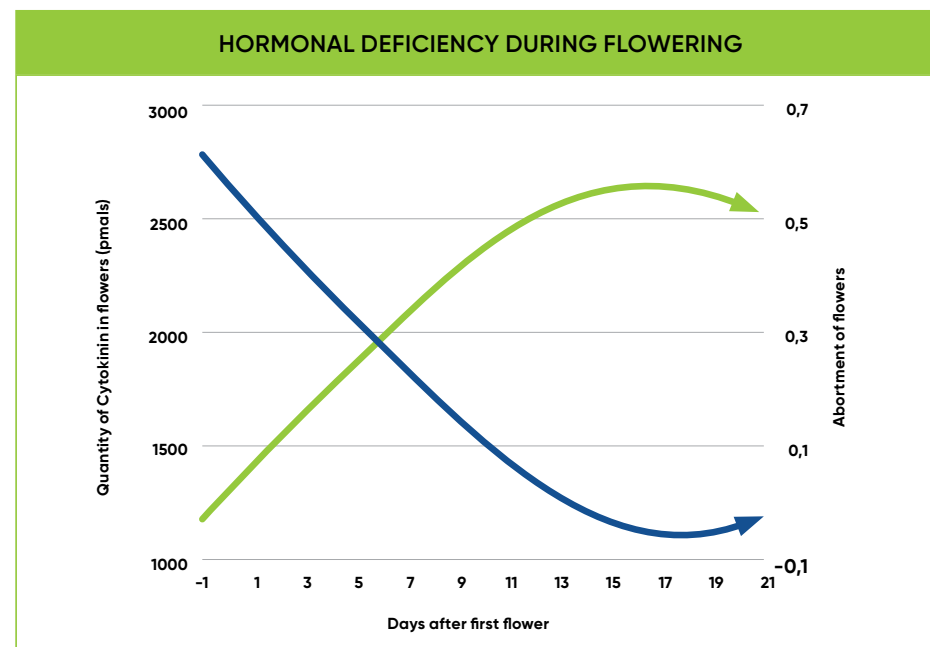


CROP	CRITICAL TEMPERATURE	CRITICAL GROWTH STAGE	RESPONSE TO HEAT STRESS
Canola	>28° C	Flowering & Pollination	Pod Drop & Flower Abortion
Corn	>35° C	Flowering & Pollination	Leaf Roll & Tip Back
Cereals	>27° C	Grain Fill	White or Bleached Awns
Pulse Crops	>32° C	Flowering & Pod Set	Pod Abortion

CYTOKININ TO PROTECT CROPS FROM THE HEAT

Cytokinin helps shield plants from heat stress. Cytokinin boosts cell growth, which enhances food production through photosynthesis, to help the plant handle stress better. Cytokinin also slows the aging of plant tissues and helps plants to use water more efficiently. All of these actions work together to help plants bounce back from heat stress, keep their tissues healthy, and continue to function properly. Using Cytokinins is a valuable way to protect our crops from the harmful effects of heat stress.

In addition, cytokinin plays a role in reducing flower abortion in plants by promoting the growth and development of flowers, which increases the likelihood that flowers will be successfully pollinated. They can also enhance the overall health and vigour of the plant, making it better able to support the development of its flowers. Overall, Cytokinins contribute improved yield in many crops.



There is a direct correlation between Cytokinin being reduced in the plant and reduced pollination.

HOW PLANT NUTRIENTS WORK TOGETHER

Photosynthesis:	Nitrogen (N), Phosphorus (P), and Potassium (K) convert light energy to chemical energy (sugars) and provide the building blocks required for the synthesis of chlorophyll and other molecules involved in photosynthesis. Iron (Fe), Manganese (Mn), and Magnesium (Mg) are essential components of chlorophyll, which captures light energy.
Nutrient Uptake & Transport:	Nitrogen (N) influences the opening and closing of stomata to control water and nutrient uptake. Copper (Cu) and Zinc (Zn) help regulate the uptake and use of macronutrients, ensuring a balanced nutrient profile within plant tissues.
Cell Wall & Structure:	Macronutrients provide the bulk of the materials for plant structure. Calcium (Ca) is essential for building strong cell walls. Potassium (K) helps regulate cell turgor pressure. Boron (B) is involved in cell wall formation.
Resilience to Stress:	Macronutrients and micronutrients work together to enhance a plant's resilience to environmental stressors. For instance, calcium and magnesium help maintain cell membrane stability during drought conditions, while micronutrients like iron and copper are involved in antioxidant defense mechanisms to protect against oxidative stress.

KEY MICRONUTRIENTS

Ca

Calcium is crucial for plants as it strengthens cell walls, regulates cell processes, aids enzyme function, enhances nutrient uptake, and boosts plant resilience against environmental stressors.

Mg

Magnesium is vital for plants as it's a core component of chlorophyll, enabling photosynthesis, and activates enzymes essential for energy production, nutrient uptake, and protein synthesis, all of which are critical for plant growth and development.

Mn

Manganese is important for plants because it helps with photosynthesis and nutrient uptake. It acts as a helper, making sure plants have the energy and nutrients they need to grow and stay healthy.

B

Boron is essential for plants as it supports cell wall formation, pollen tube growth, nutrient uptake, sugar transport, enzyme activation, and regulates water uptake through stomatal function, all of which are vital processes for plant growth and development.

Zn

Zinc is important for plants because it helps enzymes work properly. These enzymes are like the workers in a plant's factory, and they help with tasks like making DNA, proteins, and chlorophyll (which plants use for photosynthesis). Zinc also helps control plant growth and development. It's like a plant's regulator, making sure things run smoothly. Overall, zinc is crucial for keeping plants healthy and helping them cope with tough situations.

Cu

Copper is vital for plants as it activates enzymes, aids in photosynthesis through chlorophyll production, regulates iron uptake, contributes to cell wall formation, all essential for plant health and growth.

Mo

Molybdenum is crucial for plants because it plays a central role in nitrogen metabolism. It is an essential component of enzymes that convert nitrogen from the soil into forms that plants can use to make proteins and grow. Without molybdenum, plants cannot efficiently use nitrogen, leading to nitrogen deficiency and poor growth. In essence, molybdenum ensures that plants can access and utilize the nitrogen they need to thrive and develop properly.

NITROGEN STABILIZERS

APPLICATION GUIDELINES

eNtrench NXTGEN™

Optinyte™ technology



Corn



Canola



Wheat

NITROGEN STABILIZER

Protect your nitrogen for better yields. Nitrogen fertilizer is critical to achieving healthy, high-yielding crops. Protect your fertilizer investment with eNtrench NXTGEN™ nitrogen stabilizer with Optinyte™ technology.

WHY USE ENTRENCH NXTGEN™ NITROGEN STABILIZER?

- **Optimize opportunity for yield and profit:**
 - Corteva Agriscience research trials demonstrate an average yield increase of 7% in corn, 6% in wheat and 8% in canola
 - Keeps 28% more positive nitrogen available in the root zone
- **Expand your application options:**
 - Apply up to two weeks earlier in fall before typical anhydrous applications
 - Take advantage of reduced cost of fertilizer in the fall
- **Manage time and efficiency:**
 - Fall application saves time for seeding operations in the spring
- **Reduce environmental impacts:**
 - Reduces greenhouse gas emissions by 51% on average
 - Reduces leaching of nitrates by 16% on average

Nitrogen stabilizers slow the conversion of ammonium to nitrates, reducing leaching and denitrification. They maximize yield potential by ensuring more of your applied nitrogen stays in the root zone in a stable, useable form until your canola, corn and wheat crops need it.

CROPS

Corn

Wheat

Canola

RATES:

• 0.71 L/ac

PACKAGING**CASE:** 2 x 9.94 L**TOTE:** 454.4 L**WHEN TO APPLY**

- Spring: Tank-mixed with your UAN or liquid manure
- Fall: Tank-mixed with your UAN or liquid manure, up to two weeks earlier than you would typically apply

APPLICATION METHOD

- Designed for use with liquid fertilizers, including UAN and liquid manure
- Impregnated on urea
- Can easily be added into the pit prior to liquid manure applications

BENEFITS OF USING NITROGEN STABILIZERS**INCREASED****CORN
YIELD*****7%****CANOLA
YIELD******8%****WHEAT
YIELD******6%****NITROGEN
RETENTION****28%****DECREASED****GREENHOUSE
GAS EMISSIONS*****51%****NITROGEN
LEACHING*****16%**

* Wolt, J.D. 2004. A meta-analysis of nitrpyrin agronomic and environmental effectiveness with emphasis on corn production in the midwestern USA.

**Based on Corteva Agriscience Canada research trials.

other information

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LEGAL DISCLAIMERS



The unique Clearfield symbol and Clearfield® are registered trademarks of BASF. DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend® technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend® technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba.



Roundup Ready 2 Xtend® is a registered trademark of Bayer Group used under license.

Components of LumiGEN® seed treatments are applied at a Corteva Agriscience production facility, or by an independent sales representative of Corteva Agriscience or its affiliates. Not all sales representatives offer treatment services, and costs and other charges may vary. See your sales representative for details. Seed applied technologies exclusive to Corteva Agriscience and its affiliates.

PERFORMANCE COMMITMENT

When you purchase a Corteva Agriscience product, you're protected by our Performance Commitment Policy. We stand behind our crop protection products, our recommendations and all labeled uses. Your satisfaction is important to us; if you are not fully satisfied with a product's performance, we want to know.

The Corteva Agriscience performance commitment

Product labels and Corteva Agriscience recommendations have been developed with extensive research. Labels and our recommendations create the foundation for safe and responsible use of our products and we stand behind them. Products must be applied according to the label and Corteva Agriscience recommendations.

We know weather is a significant and powerful variable every season. Corteva Agriscience is not responsible for poor performance or crop injury resulting from adverse weather conditions, resistant weed biotypes or inadequate crop competition.

We're committed to ensuring all customer inquiries are investigated fully. We will provide the most appropriate level of assistance, whether it be advice to help you move forward or replacement product.

The maximum product allowance is limited to the value of the original Corteva Agriscience product purchased and used for the area in question. Application costs will not be covered.

Growers involved in a product inquiry resolution must sign a settlement and release form.

Product cannot be substituted or returned.

Corteva Agriscience reserves the right to verify purchases through product invoices from the retailer.

To ensure appropriate resolutions, we must be notified as soon as possible when you are unsatisfied with a Corteva Agriscience product. We must be notified no later than 21 days after application and prior to July 31st. After July 31st, it's too late to confidently determine cause or remedial action so no good-will product can be provided. Crops must be standing in the field to make an adequate evaluation. Regardless of timing, we will always answer and document your calls.

Questions?

Visit your local crop protection retailer.

Contact us at corteva.ca/contact

On social media? Follow us at:

X @CortevaCA

Instagram @CortevaCA

YouTube @CortevaCanada

Refer to product label for complete use instructions.

Visit us at corteva.ca



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