2021 Field Records

A useful record-keeping tool and quick reference guide for potato growers.
Accurate record keeping – made easier.

**Information at your fingertips.** At Syngenta, we know you’re busy. This guide provides quick and easy access to the information you need to record your potato field applications.

For additional information, visit Syngenta.ca, contact our Customer Interaction Centre at 1-877-SYNGENTA (1-877-964-3682) or follow @SyngentaCanada on Twitter.

Here’s to a successful growing season!
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Actara® 240SC

Protect your potato crop from early-season insect pests.

An application of Actara® 240SC insecticide on your potato seed pieces or at planting is what your crop needs for residual protection. Once inside the plant, Actara 240SC delivers effective protection into the growing season.

Active ingredient:
• Thiamethoxam (Group 4A insecticide)

PCP number:
• 28407

WALES symbol:
• L

For control of:
• Aphids (buckthorn, foxglove, green peach, potato)
• Colorado potato beetle
• Potato leafhopper

Packaging:
• Each case contains 2 x 2.04 L jugs.

Use information:
Rate:
• Seed treatment: Apply no more than 488 mL/ha (197.6 mL/ac).

Maximum applications/season:
Seed treatment or in-furrow: 1

Pair Actara 240SC with Vibrance® Ultra Potato fungicide seed treatment to provide broad-spectrum protection against key seed- and soil-borne diseases, including seed-borne late blight and suppression of pink rot. For more information, see page 6.

For information about Actara 240SC in-furrow, please see page 11.
Cruiser Maxx® Potato Extreme seed treatment provides comprehensive protection for your crop. With two fungicides for early-season control of key seed-borne diseases, plus an insecticide that delivers reliable insect control, the all-in-one liquid formulation helps get your crop off to the right start.

**Active ingredients:**
- Difenoconazole (Group 3 fungicide)
- Fludioxonil (Group 12 fungicide)
- Thiamethoxam (Group 4A insecticide)

**PCP number:**
- 31024

**For control of:**

**Diseases:**
- Black scurf*, stem and stolon canker (*Rhizoctonia solani*)
- Fusarium dry rot (*Fusarium* spp.)
- Silver scurf (*Helminthosporium* spp.)

**Insects:**
- Colorado potato beetle
- Aphids
- Potato leafhopper

**Packaging:**
- Each case contains 2 x 9.6 L jugs.

**Use information:**

**Rate:**
- 20 mL/100 kg seed (9 mL/cwt)
- One jug of Cruiser Maxx Potato Extreme will treat 1058 cwt.
- To determine your use rate per acre, multiply 9.1 mL by your seeding rate (in cwt).

**PHI:** N/A

*Suppression only.
Fortenza® insecticide is a non-neonicotinoid seed treatment that protects potatoes from Colorado potato beetle from early- to mid-season.

**Active ingredient:**
- Cyantraniliprole (Group 28 insecticide)

**PCP number:**
- 30899

**For control of:**
- Colorado potato beetle*

**Packaging:**
- Each case contains 2 x 8 L jugs.

**Use information:**

**Rate:**
- 10–22.5 mL/100 kg of seed pieces
- Fortenza can be tank-mixed with Vibrance® Ultra Potato fungicide for control of seed-borne silver scurf, Fusarium dry rot, black scurf, stem and stolon canker, and late blight, as well as suppression of seed-borne pink rot.
- One jug applied at 17 mL/100 kg seed will treat 1037 cwt.
- To determine the use rate per acre at the mid rate, multiply 7.7 mL by your seeding rate (in cwt).

**PHI:** N/A

**Maximum applications/season:**
- Do not make a subsequent in-furrow, soil or foliar application of a Group 28 insecticide following application of Fortenza seed treatment for Colorado potato beetle.

*Protection provided during early- to mid-season growth and development of potatoes only.
Preventative control of seed-borne late blight.

When applied as a seed treatment, Revus® fungicide can help prevent seed-piece decay and the spread of late blight spores from seed piece to seed piece. Revus can also be used to help manage pink rot.

Active ingredient:
- Mandipropamid (Group 40 fungicide)

PCP number:
- 29074

For control or suppression of:
- For preventative control of seed-borne late blight (*Phytophthora infestans*).
- For suppression of pink rot caused by the pathogen *Phytophthora erythroseptica*.

Packaging:
- Each case contains 4 x 3.78 L jugs.

Use information:

Rate:
- Seed treatment: 13—26 mL/100 kg seed (3.25—6.5 g ai/100 kg seed)
- Foliar: 400–600 mL/ha (162–243 mL/ac)
- One jug applied at 20 mL/100 kg seed will treat 420 cwt.

PHI:
- Seed treatment: N/A
- Foliar: 14 days

Maximum applications/season: 1 seed treatment

If following a seed treatment application of Revus fungicide with foliar applications of this product, apply a fungicide belonging to a group other than Group 40 as the first foliar application of the season.

Do not apply more than 600 g mandipropamid/ha/year.

At time of print, Maximum Residue Limits (MRLs) for the active ingredient mandipropamid as a seed treatment had been established for markets in Canada, the United States and Japan.
Vibrance® Ultra Potato fungicide gives growers peace of mind. The easy-to-use formulation combines three modes of action and comes with a built-in colourant so growers can evaluate coverage.

**Active ingredients:**
- Difenoconazole (Group 3)
- Sedaxane (Group 7)
- Mandipropamid (Group 40)

**PCP number:**
- 33171

**For control of:**
- Seed-borne silver scurf (*Helminthosporium solani*).
- Fusarium dry rot (*Fusarium* spp.)
- Seed-borne black scurf, stem and stolon canker (*Rhizoctonia solani*).
- Preventative control of late blight (*Phytophthora infestans*).
- Pink rot (*Phytophthora erythroseptica)*

**Packaging:**
- One case contains 4 x 4.8 L (fungicide) + 4 x 0.15 L (colourant) jugs.

**Use information:**

**Rate:**
- 32 mL/100 kg seed.
- One jug of Vibrance Ultra Potato will treat 330.6 cwt.
- To determine your use rate per acre, multiply 14.5 mL by your seeding rate (in cwt).
- For control of Colorado potato beetle, aphids and potato leafhopper, Vibrance Ultra Potato can be tank-mixed with Actara® 240SC insecticide.
- For control of Colorado potato beetle, Vibrance Ultra Potato can be tank-mixed with Fortenza® insecticide.

**PHI:** N/A

**Maximum applications/season:**
Do not apply more than 600 g of mandipropamid per hectare per year.

* Suppression only.

The use of Vibrance Ultra Potato as a seed treatment may reduce the number of possible foliar applications of Revus® and Orondis® Ultra fungicides.

At time of print, Maximum Residue Limits (MRLs) for the active ingredient mandipropamid as a seed treatment had been established for markets in Canada, the United States and Japan.
Take action early with Elatus® in-furrow.

Combat soil-borne diseases early with Elatus® fungicide. An in-furrow application of Elatus® protects your potato crop and will help to minimize the effects of Rhizoctonia for improved marketable yield.

**Active ingredients:**
- Solatenol® (Group 7 fungicide)
- Azoxystrobin (Group 11 fungicide)

**PCP number:**
- Elatus® A - 31973
- Elatus® B - 31977

**WALES symbol:**
- Elatus® A - L
- Elatus® B - E

**For control of:**
- Silver scurf (*Helminthosporium solani*)
- Rhizoctonia stem and stolon canker (*Rhizoctonia* sp.)
- Black scurf (*Rhizoctonia solani*)
- Verticillium wilt (*Verticillium dahliae*)*

**Packaging:**
- Each case contains 1 x 8.1 L jug of Elatus® A and 1 x 8.1 L jug of Elatus® B.

**Use information:**

**Elatus® A - In-furrow:**
- Apply 4–6 mL/100 m row (178–267 mL/ac with 36” row spacing).
- When targeting silver scurf and *Rhizoctonia* spp., one case will treat up to 40 acres.
- See label for specific recommendations when targeting Verticillium wilt.

**PHI:** N/A  
**REI:** 12 hours

Apply as an in-furrow spray in 50 to 140 L/ha of water at planting. Mount the spray nozzle so the spray is directed into the furrow in a 15 to 20 cm band just before the seed is covered. In-furrow application only.

**Elatus® B - In-furrow:**
- Apply 500–750 mL/ha (202–303 mL/ac).

**Maximum applications/season:**
- Apply once in-furrow.

If an application of Elatus® is made, DO NOT make more than one application of Aprovia® Top fungicide in subsequent foliar applications.

*Suppression only.
Is pink rot on your radar? 
Defend your crop with Orondis Gold Potato.

Orondis® Gold Potato fungicide secures early crop establishment and protects tubers.

Active ingredients:
• Metalaxyl-M (Group 4)
• Oxathiapiprolin (Group 49)

PCP number:
• Orondis Gold A 200SC - 33284
• Orondis Gold B 480SL - 32937

W ALES symbol:
• Orondis Gold A 200SC - L
• Orondis Gold B 480SL - L

For suppression of:
• Pink rot (*Phytophthora erythroseptica*)

Packaging:
• Each co-pack contains 2 x 2.84 L of Orondis Gold A 200SC fungicide and 2 x 3.56 L of Orondis Gold B 480SL fungicide.
• One case will treat 40 acres on a 36" row spacing.

Use information:
Rate:
• Orondis Gold A 200SC at 0.35 L/ha (0.142 L/ac)
  + Orondis Gold B 480SL at 0.44 L/ha (0.178 L/ac).

PHI: N/A
REI: 12 hours

Maximum applications/season: 1

If Orondis Gold Potato is applied in-furrow, foliar applications of Orondis Ultra will not be permitted.
The fungicide you can trust for protection against Rhizoctonia and silver scurf.

Apply Quadris® fungicide as an in-furrow treatment for protection against soil-borne diseases caused by Rhizoctonia, as well as silver scurf.

Active ingredients:
- Azoxystrobin (Group 11 fungicide)

PCP number:
- 26153

WALES symbol:
- L

For control of:
In-furrow:
- Black scurf, stem and stolon canker (*Rhizoctonia solani*)
- Silver scurf (*Helminthosporium solani*)

Packaging:
- Each case contains 4 x 3.78 L jugs.

Use information:

Rate:
- In-furrow: Apply 4–6 mL/100 m row (178–267 mL/ac with 36” row spacing).
- One jug of Quadris applied at the in-furrow rate of 4.32 mL/100 m row treats approximately 20 acres.

PHI: N/A

REI: 12 hours

Maximum applications/season: 1 in-furrow
Help mitigate financial loss in storage.

Incorporate Ridomil Gold® 480 SL fungicide into your pink rot management strategy. Apply in-furrow or consider tank-mixing with Bravo® ZN fungicide as a foliar application for increased activity on late blight, and protection against early blight and Botrytis vine rot. Growers should follow through with a post-harvest application of a registered product targeted at pink rot and tuber blight going into storage.

Active ingredients:
- Metalaxyl-M (Group 4 fungicide) and S-isomer

PCP number:
- 28474

WALES symbol:
- S

For suppression of:
In-furrow:
- Pink rot (*Phytophthora erythroseptica*)
Foliar (in a tank-mix with Bravo ZN):
- Pink rot (*Phytophthora erythroseptica*)
- Late blight (*Phytophthora infestans*)
- Pythium leak (*Pythium spp.*)
  - Early blight (*Alternaria solani*)
  - Botrytis vine rot (*Botrytis cinerea*)

When applying to foliage, make a first application at tuber initiation (the beginning of flowering and/or stolon hooking) and then a second application 14 days later.

Packaging:
- Each case contains 4 x 3.78 L jugs.

Use information:

Rate:
- In-furrow: 4 mL/100 m row (178 mL/ac with 36” row spacing)
- Foliar: Apply Ridomil Gold 480 SL at 208 mL/ha (80 mL/ac) and Bravo ZN at 2 L/ha (0.8 L/ac).
- One jug of Ridomil Gold 480 SL treats 22.5 acres as an in-furrow application or 45 acres as a foliar application.

PHI: In-furrow: N/A    Foliar: 14 days
REI: 12 hours

Maximum applications/season:
- In-furrow: 1 or Foliar: 3

*There is known Ridomil Gold 480 SL insensitivity to certain strains of late blight and pink rot. Ridomil Gold 480 SL should always be tank-mixed with another product that controls late blight when targeting that disease.

If Orondis Gold or Ridiomil Gold 480 SL is applied in-furrow, foliar applications of Ridomil Gold 480 SL will not be permitted.
IN-FURROW INSECTICIDES

Actara® 240SC

Protect your potato crop from early-season insect pests.

An application of Actara® 240SC insecticide on your potato seed pieces or at planting is what your crop needs for residual protection. Once inside the plant, Actara 240SC delivers effective protection into the growing season.

Active ingredient:
- Thiamethoxam (Group 4A insecticide)

PCP number:
- 28407

For control of:
- Aphids (buckthorn, foxglove, green peach, potato)
- Colorado potato beetle
- Potato leafhopper

Packaging:
- Each case contains 2 x 2.04 L jugs.

Use information:

Rate:
- In-furrow: Apply 3.4–4.4 mL/100 m row (151–196 mL/ac with 36” row spacing).
- At the registered high rate, one jug of Actara 240SC treats approximately 10 acres when applied in-furrow.

PHI:
- In-furrow: N/A

Maximum applications/season:
- Seed treatment or in-furrow: 1

Pair Actara 240SC with Vibrance® Ultra Potato fungicide seed treatment to provide broad-spectrum protection against key seed- and soil-borne diseases, including seed-borne late blight and suppression of pink rot. For more information, see page 6.

For information about Actara 240SC as a seed treatment, please see page 2.
Minecto® Duo insecticide applied in-furrow protects emerging plants thanks to two systemic active ingredients that combine to provide extended control of Colorado potato beetles and later-emerging pests. With two active ingredients, Minecto Duo provides long-lasting, consistent control.

**Active ingredients:**
- Cyantraniliprole (Group 28 insecticide)
- Thiamethoxam (Group 4A insecticide)

**PCP number:**
- 30900

**WALES symbol:**
- W

**For control of:**
- Colorado potato beetle*
- Flea beetle
- Aphids
- Potato leafhopper

**Packaging:**
- One case contains 2 x 3.04 kg jugs.

**Use information:**

**Rate:**
- In-furrow: 440–700 g/ha (178–283 g/ac)
- One case of Minecto Duo applied at 243 g/ac will treat 25 acres.

**PHI:** N/A

**REI:** 12 hours

**Maximum applications/season:** 1

Do not use a foliar application of a product containing a Group 4 insecticide following an in-furrow application of Minecto Duo.

*Do not make a subsequent seed, soil or foliar application of a Group 28 insecticide following an application of Minecto Duo for control of Colorado potato beetle.
Don’t let white mould chip away at yield.

To protect your potato plants against white mould infection, make the first application of Allegro® fungicide at first bloom (10%). Make a second application two weeks later if rain and humidity remain high. Allegro also inhibits the formation and movement of late blight spores, effectively preventing the spread of foliar and tuber late blight.

Active ingredient:
- Fluazinam (Group 29 fungicide)

PCP number: 27517  Adjuvant: None required  Rainfast: 2 hours

WALES symbol: L

For control of:
- Late blight (*Phytophthora infestans*)
- White mould (*Sclerotinia sclerotiorum*)

Packaging:
- Each case contains 2 x 10 L jugs.

Use information:
Rate:
- 400–600 mL/ha (162–243 mL/ac)
- One jug of Allegro applied at 162 mL/ac treats approximately 60 acres.

PHI: 14 days  REI: 24 hours

Maximum sequential applications: 3
Maximum applications/season: 10
Two modes of action to protect against early blight and brown spot.

Active ingredients:
- Solatenol® (Group 7 fungicide)
- Difenoconazole (Group 3 fungicide)

PCP number: 31526  Adjuvant: None required  Rainfast: 1 hour

WALES symbol: E

For control of:
- Early blight (*Alternaria solani*)
- Brown spot (*Alternaria alternata*)

Packaging:
Each case contains 4 x 3.78 L jugs.

Use information:

Rate:
- 643–967 mL/ha (260–391 mL/ac)
- One jug of Aprovia® Top applied at 391 mL/ac will treat 10 acres.

PHI: 14 days
REI: 12 hours

Maximum applications/season: Four applications by ground or two applications by air. All applications must be made by the same method.

Application interval: 7–14 days

Consecutive applications: Make no more than two consecutive applications before switching to a non-Group 7 and a non-Group 3 fungicide. If disease pressure is high, use the highest rate and shortest interval.

If an in-furrow application of Elatus® was made, do not make more than one application of Aprovia® Top fungicide in subsequent foliar applications.

*Suppression only.
WeatherStik technology sticks and stays.

Bravo® ZN fungicide with WeatherStik® technology sticks and stays. The patented WeatherStik technology from Syngenta maximizes the ability of Bravo ZN to stick to plant surfaces, even during heavy rainfall or irrigation. Bravo ZN can be applied in combination or rotation with other Syngenta fungicides targeting late blight and early blight.

Active ingredient:
• Chlorothalonil (Group M-5 fungicide)

PCP number: 28900

Adjuvant: None required

Rainfast: 30 minutes

WALES symbol: L

For control of:
• Early blight (Alternaria solani)
• Late blight (Phytophthora infestans)
• Botrytis vine rot (Botrytis cinerea)

Packaging: 450 L tote

Use information:
Rate:
• For late blight: 1.2–2.4 L/ha (0.5–1.0 L/ac).
• For early blight and Botrytis vine rot: 1.6–2.4 L/ha (0.65–1.0 L/ac).
• The most common use rates for Bravo ZN in potatoes are 0.8–1.0 L/ac.
• Begin applications when plants are 15–20 cm high, or when disease threatens.
• Repeat applications as necessary to maintain disease control on a 7- to 10-day interval.
• Under severe disease conditions, use the higher rates at 7-day intervals.

Use changes:
• All mixing and loading must be done with closed transfer systems.
• Applicators treating potato fields must use groundboom equipment with an enclosed cab.
• A vegetative filter strip (VFS) with a width of at least 10 metres must be constructed and maintained.

For more information regarding changes to chlorothalonil use, go to: Syngenta.ca/chlorothalonil

PHI: 2 days  REI: Refer to label.  Maximum applications/season: 3
Miravis® Duo

Broad-spectrum management matters.

Depending on geography, potato growers can expect to make multiple applications of a systemic (site-specific) fungicide, like Miravis® Duo, when targeting early blight. And with every application of Miravis® Duo, growers can also control brown spot while protecting against Botrytis and white mould.

Changes to the use patterns of multi-site fungicides mean a shift from tradition in foliar disease management.

The broad-spectrum activity of Miravis® Duo helps fill this gap. Miravis® Duo is also the only non-chlorothalonil fungicide on the potato market offering Botrytis activity.

Photo taken in Saint-Laurent-de-l’Île-d’Orléans, QC, in September 2020.

Two applications of Miravis® Duo were applied versus two applications of the competitive standard treatment within the grower’s foliar program.

Consistently powerful performance against early blight

Across all trials there was an average of 55 percent early blight severity (grey bar). Miravis® Duo consistently performed better than Syngenta commercial standard treatments, with an average early blight control of 97 percent (blue bar).

This level of control was an average 7 to 10 percent improvement over the Syngenta commercial standard early blight treatments (green bars).

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions. Always read and follow label directions.
Miravis® Duo fungicide brings together a powerful new active ingredient, ADEPYDIN®, and proven chemistry to deliver a true step change in foliar potato fungicides. Miravis® Duo helps you proactively protect yield and quality by delivering highly effective control of early blight and broad-spectrum protection against brown spot, Botrytis and white mould.

**Active ingredients:**
- ADEPIDYN® (Group 7 fungicide)
- Difenoconazole (Group 3 fungicide)

**PCP number:**
- 33206

**W A L E S symbol:**
- L

**For control of:**
- Early blight (*Alternaria solani*)
- Brown spot (*Alternaria alternata*)
- Botrytis grey mould (*Botrytis cinerea*)*
- White mould (*Sclerotinia sclerotiorum*)*

**Packaging:**
- Each case contains 2 x 8.1 L jugs.

**Use information:**

**Rate:**
- Apply at one convenient robust rate of 1 L/ha.
- One case treats 40 acres.

**Application timing:**
- To control early blight and brown spot, apply on a 7- to 14-day interval, prior to disease establishment. If disease pressure is high, use the shortest interval.
- For suppression of white mould, begin applying at 20 per cent bloom. Repeat applications 10 to 14 days later.
- For suppression of Botrytis grey mould, apply on a 7- to 14-day interval prior to disease establishment. If disease pressure is high, use the shortest interval.
- Apply as a broadcast spray in sufficient water for thorough coverage. A minimum of 150 L/ha is recommended. For aerial application, use a minimum of 50 L/ha.

**PHI:** 14 days  
**REI:** 12 hours after application

**Maximum applications/season:**
- Two applications, then switch to a non-Group 7 and 3 fungicide.

*Suppression only.

For potatoes destined for use outside of Canada, please consult with your processor prior to use.
Orondis® Ultra fungicide provides unbeatable protection against late blight so you can plan your late blight program with the confidence that your crop is protected.

**Active ingredients:**
- Oxathiapiprolin (Group 49 fungicide)
- Mandipropamid (Group 40 fungicide)

**PCP number:** 32805
**Adjuvant:** None required
**Rainfast:** 1 hour

**WALE S symbol:** L

**For control of:** Late blight (*Phytophthora infestans*)

**Packaging:** Each case contains 4 x 3.78 L jugs.

**Use information:**

**Rate:**
- 400–600 mL/ha (162–243 mL/ac).
- At the mid-rate, Orondis Ultra treats 75 acres per case.

**Application timing:**
Orondis Ultra must be applied preventatively:
- Apply in-season when conditions are conducive to disease development.
- Apply late season to provide protection prior to harvest.

**Resistance management guidelines:**
- Make a maximum of one application of Orondis Ultra for every three applications targeting late blight (i.e. two alternative modes of action or fungicide groups other than Groups 40 and 49).
- Do not apply curatively – if infection is present in the field, use alternate solutions.

**PHI:** 14 days  **Maximum applications/season:** 4

The use of Vibrance® Ultra Potato or Revus® as a seed treatment may reduce the number of possible foliar applications of Orondis Ultra. If Orondis Gold Potato is applied in-furrow, foliar applications of Orondis Ultra will not be permitted.
Quadris Top® fungicide combines two powerful active ingredients and provides highly effective protection against target diseases, including black dot, early blight and brown spot. And, because of translaminar and xylem-systemic movement, Quadris Top protects better than a contact fungicide.

Active ingredients:
- Azoxystrobin (Group 11 fungicide)
- Difenoconazole (Group 3 fungicide)

PCP number: 30518
Adjuvant: None required
Rainfast: 1 hour

WALES symbol: L

For control of:
- Early blight (Alternaria solani)
- Black dot (Colletotrichum coccodes)*
- Brown spot (Alternaria alternata)*
- White mould (Sclerotinia sclerotiorum)*

Packaging:
- Each case contains 2 x 10.125 L jugs.

Use information:
Rate:
- Apply 566–1000 mL/ha (229–404 mL/ac).
- Targeting black dot: One jug of Quadris Top applied at 253 mL/ac will treat 40 acres.
- Targeting early blight, brown spot, and/or white mould: One jug of Quadris Top applied at 404 mL/ac will treat 25 acres.

PHI: 14 days
REI: 12 hours

Maximum applications/season: 3

*Suppression only.
Revus®

Reliable, long-lasting late blight control.

With its powerful LOK+FLO® technology, Revus® fungicide delivers long-lasting protection against late blight in plants for up to 10 days, even during periods of expanding leaf growth.

Active ingredient:
- Mandipropamid (Group 40 fungicide)

PCP number: 29074

Adjuvant:
- A non-ionic adjuvant, such as Agral® 90 (0.25% v/v), is recommended.

WALES symbol: L

Rainfast: 1 hour

For control of:
- Late blight (*Phytophthora infestans*)

Apply in an integrated late blight management program. Revus fungicide applications should begin prior to disease development and continue throughout the season on a 7- to 10-day schedule of fungicides, following the resistance management guidelines. Revus will spread within the leaves it has been applied to as they grow, providing extended protection.

Packaging:
- Each case contains 4 x 3.78 L jugs.

Use information:

Rate:
- 400–600 mL/ha (162–243 mL/ac)
- One jug of Revus applied at 190 mL/ac will treat 20 acres.

PHI: 14 days

REI: 12 hours

Maximum applications/season: Maximum four applications of products containing mandipropamid, including Revus and Orondis® Ultra, per season.

The use of Vibrance® Ultra Potato or Revus as a seed treatment will reduce the number of foliar applications of Revus or Orondis Ultra.
Matador® 120EC insecticide works on contact. Count on Matador 120EC for fast-acting activity on many insects at various life stages, including small larvae, nymphs and adults.

Active ingredient:
• Lambda-cyhalothrin (Group 3 insecticide)

PCP number: 24984  
Adjuvant: None required  
Rainfast: 30 minutes

WALES symbol: E

For control of:
• Colorado potato beetle*  
• European corn borer  
• Potato flea beetle  
• Potato leafhopper  
• Tarnished plant bug  
• Tuber flea beetle

Packaging:
• Each case contains 4 x 3.78 L jugs.

Use information:
Rate:
• 83–125 mL/ha (34–50 mL/ac)  
• One jug of Matador 120EC applied at 34 mL/ac will treat 111 acres.

PHI: 7 days  
REI: 24 hours

Maximum applications/season: 3

*Susceptibility to pyrethroid insecticides should be confirmed using an appropriate assay.
Minecto® Pro is a broad-spectrum, foliar-applied insecticide. It provides excellent control of the most important potato pests, including Colorado potato beetle. Minecto Pro harnesses the power of two complementary active ingredients with translaminar modes of action in one convenient pre-mix formulation.

**Active ingredients:**
- Abamectin (Group 6)
- Cyantraniliprole (Group 28)

**PCP number:** 33023  
**Adjuvant:** 0.1—0.5% v/v non-ionic surfactant  
**Rainfast:** 1 hour

**WALES symbol:** L (suspension concentrate)

**For control of:**
- Colorado potato beetle*  
- European corn borer  
- Flea beetle  
- Potato psyllids  
- Spider mites

**Packaging:** Each case contains 4 x 3.78 L jugs.

**Use information:**

**Rate:**
- 370–670 mL/ha (149–271 mL/ac)
- One jug of Minecto Pro applied at 271 mL/ac will treat approximately 14 acres.

**PHI:** 14 days  
**REI:** 12 hours

**Maximum applications/season:** Make up to two consecutive applications. After two consecutive applications, switch to a non-Group 6 and non-Group 28 insecticide.

*Do not apply Minecto Pro for Colorado potato beetle control if any Group 28 insecticide was used at planting as an in-furrow, soil or seed-piece treatment.
Boundary® LQD

Long-lasting grass control.

A flexible tank-mix partner, Boundary® LQD herbicide provides long-lasting grass control and also controls nightshade, allowing the crop to grow with less competition and fewer alternate hosts for diseases in the field.

Active ingredients:
- Metribuzin (Group 5 herbicide)
- S-Metolachlor (Group 15 herbicide)

PCP number: 30812  Adjuvant: None required  Rainfast: N/A

WALES symbol: E

For control of:
- Grass weeds:
  - Barnyard grass
  - Crabgrass (smooth, hairy)
  - Witch grass
  - Fall panicum
  - Foxtail (green, yellow, giant)
- Broadleaf weeds:
  - American nightshade
  - Redroot pigweed
  - Eastern black nightshade
  - Yellow nutsedge

Packaging:
- Each case contains 2 x 10 L jugs.
- 450 L tote

Use information:
Rate:
- 1.85–2.5 L/ha (0.75–1.0 L/ac)
- At the high rate, 1 L of Boundary LQD will treat one acre.

Application timing:
Apply Boundary LQD soon after hilling. Disturbing the soil after applying Boundary LQD may compromise activity, as treated soil

PHI: 60 days  REI: 12 hours  Maximum applications/season: 1

1 Some naturally occurring triazine-tolerant biotypes of this weed may not be controlled by Boundary LQD.
2 Pre-plant incorporated treatment only. Extended periods of dry, hot weather following application may result in reduced yellow nutsedge control.

Potato varieties may vary in their response to Boundary LQD. Do not apply to Belleisle, Tobique or Superior.
Residual performance and flexibility.

Dual II Magnum® herbicide provides long-lasting residual weed control you can count on for a broad spectrum of annual grasses.

**Active ingredient:**
- S-Metolachlor (Group 15 herbicide)

**PCP number:** 25729

**Adjuvant:** None required

**Rainfast:** N/A

**WALEES symbol:** E

**For control of:**
- Barnyard grass
- Crabgrass (smooth, hairy)
- Fall panicum
- Foxtail (giant, green, yellow)
- Nightshade (American, Eastern black)
- Old witchgrass
- Redroot pigweed
- Yellow nutsedge

**Packaging:**
- Each case contains 2 x 10 L jugs.
- 450 L tote
- Bulk

**Use information:**

**Rate:**
- 1.25–1.75 L/ha (0.5–0.7 L/ac)
- 1 L of Dual II Magnum will treat 1.4 acres at the high rate.

**PHI:** N/A  
**REI:** 12 hours

**Maximum applications/season:** 1

Consult the label of the product to be tank-mixed with Dual II Magnum for specific instructions regarding broadleaf weeds, soil type variations, rotational crops, grazing or other restrictions.

1 Pre-emergent treatments usually provide better control than pre-plant surface, pre-plant incorporated or post-emergent treatments.
2 Suppression only.
3 Pre-plant incorporated treatment only. Extended periods of hot, dry weather following application may result in reduced nutsedge control.
Take early action against broadleaf weeds.

Applied after planting but before potato emergence, Reflex® herbicide provides fast knockdown of emerged broadleaf weeds. It also provides some residual activity to help keep fields clean through canopy closure.

**Active ingredient:**
- Fomesafen (Group 14 herbicide)

**PCP number:**
- 24779

**Rainfast:**
- 4 hours

**For control of:**
- Redroot pigweed
- Common ragweed
- Lamb’s-quarters’

**Packaging:**
- Each case contains 2 x 10 L jugs.

**Use information:**

**Rate:**
- 1 L/ha (0.4 L/ac)
- One jug of Reflex will treat 25 acres.

**PHI:** 70 days

**REI:** 12 hours

**Maximum applications/season:** 1

*Suppression only.*
Genuine Reglone is hard at work.

With Reglone® desiccant, potato tubers mature naturally, developing a thicker and more scuff-resistant skin. In addition, Reglone allows for easier harvest because desiccated plants pass more easily through harvesting equipment.

**Active ingredient:**
- Diquat (Group 22 herbicide)

**PCP number:**
- 26396

**Rainfast:**
- 15 minutes or when dry

**WALES symbol:**
- S

**For control of:**
- Green plant material — Reglone will desiccate any green plant material, whether it is a crop or annual or perennial weed.

**Packaging:**
- Each case contains 2 x 10 L jugs.
- 450 L tote

**Use information:**

**Rate:**
- 1.25–3.5 L/ha (0.5–1.4 L/ac)
- One jug of Reglone will treat 20 acres at the low rate.

**PHI:** 24 hours

**REI:** 24 hours
Post-emergent control of grasses.

Venture® L herbicide is the right choice for control of emerged grasses in your potatoes. Venture L controls all annual grasses plus quackgrass and wirestem muhly.

**Active ingredients:**
- Fluazifop-P-butyl (Group 1 herbicide) and S-isomer

**PCP number:** 21209
**Adjuvant:** None required
**Rainfast:** 2 hours

**WALES symbol:** E

**For control of:**
- Barnyard grass
- Crabgrass
- Fall panicum
- Giant foxtail (Eastern Canada)
- Green foxtail
- Johnson grass
- Old witchgrass
- Persian darnel
- Spring barley
- Volunteer corn
- Volunteer spring wheat
- Wild oats
- Wild proso millet
- Wirestem muhly
- Yellow foxtail

**Packaging:**
Each case contains 2 x 8 L jugs.

**Use information:**

**Rate:**
- 0.6–2.0 L/ha (0.24–0.8 L/ac)
- One jug of Venture L will treat 10 acres at the high rate.

**PHI:** 45 days

**REI:** 12 hours

**Maximum applications/season:** Do not exceed 0.8 L/ac.

At time of print, Maximum Residue Limits (MRLs) for Venture L herbicide had been established for Canada and the United States.
Help maintain tuber quality in storage.

**Active ingredient:**
- Thiaobendazole (Group 1 fungicide)

**PCP number:** 13975  
**Adjuvant:** None required  
**Rainfast:** N/A

For control of:
- Black scurf (*Rhizoctonia* spp.)
- Fusarium dry rot (*Fusarium* spp.)*
- Gangrene (*Phoma* spp.)
- Silver scurf (*Helminthosporium* spp.)*
- Skin spot (*Oospora* spp.)

**Packaging:**
- Each case contains 4 x 5 L jugs.

**Use information:**

**Rate:**
- Application volume: Apply 2000 mL of mixed slurry to 1000 kg of potatoes (91 mL/cwt).
- A limit of 500,000 kg of potato tubers may be treated per day per worker.

**PHI:** N/A

**Maximum applications/season:** 1

* Some strains of *Fusarium* spp. and *Helminthosporium* spp. are resistant to thiaobendazole, the active ingredient in Mertect®
Quality in. Quality out.

Help keep your crop picture perfect coming out of storage. Just one application of Stadium® post-harvest fungicide on potatoes going into storage helps protect them from the spread of two quality-robbing diseases: Fusarium and silver scurf.

Active ingredients:
- Azoxystrobin (Group 11 fungicide)
- Difenoconazole (Group 3 fungicide)
- Fludioxonil (Group 12 fungicide)

PCP number: 31050
Adjuvant: None required
Rainfast: N/A

For control of:
- Fusarium (Fusarium spp.)
- Silver scurf (Helminthosporium solani)

Packaging:
- 2 x 10 L jugs

Use information:
Rate:
- 32.5 mL/metric tonne
- One case treats approximately 13,500 cwt.
- Do not apply to potatoes grown for seed.

PHI: N/A
Maximum applications/season: 1

1 Applications of Stadium more than two days after harvest will not be effective at controlling Fusarium.
2 Suppression only.

Maximum Residue Limits (MRLs) for Stadium fungicide have been established for markets in Canada, the United States, and Mexico, as well as Codex. Should you need additional information on export market MRLs, please consult with Syngenta to receive the most up-to-date information.
# Field data

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## Foliar fertilizer applications

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Crop protection applications

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**Always read and follow label directions.** Elatus® is a foliar application of Elatus® A and Elatus® B fungicides. Orondis Gold Potato is an in-furrow application of Orondis Gold Potato A 200SC and Orondis Gold Potato B 480SL. Actara®, ADEPIDYN®, Agral®, Aprovia®, Boundary®, Bravo®, Cruiser Maxx®, Dual II Magnum®, Elatus®, Fortenza®, LOK+FLO®, Matador®, Mertect®, Minecto®, Miravis®, Orondis®, Quadris®, Quadris Top®, Reflex®, Reglone®, Revus®, Ridomil Gold®, Seedcare™, Solatenol®, Stadium®, Venture®, Vibrance®, WeatherStik®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company. Allegro® is a trademark of ISK Biosciences Corporation. All other trademarks are property of their respective owners.

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