2021 HORTICULTURE CROP PROTECTION GUIDE
Trusted technologies and innovative solutions for Canadian fruit and vegetable growers.

Whether it’s pests, diseases or weeds, the wide range of high-performance solutions from Corteva Agriscience™ ensures you have everything you need to protect your fruit and vegetable crops. Our products are designed to work with your existing Integrated Pest Management programs and our team is continually innovating and developing new technologies to bring you the latest in horticulture crop protection.

Corteva Agriscience: the agricultural company dedicated to farmers and growers.

KEEP GROWING.

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<th>FUNGICIDES</th>
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<tbody>
<tr>
<td>Apple</td>
<td>Closer™</td>
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<tr>
<td>X</td>
<td>Delegate™</td>
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<td>X</td>
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<td>Blueberry - lowbush</td>
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<td>Blueberry - highbush</td>
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<td>Cranberry</td>
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<td>Grape</td>
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<td>Plum/Prune</td>
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<td>Saskatoon berry</td>
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<td>Watermelon</td>
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<td>Basil and dill</td>
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<td>Brussel sprouts</td>
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<td>Cabbage</td>
<td>X</td>
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<td>Carrot</td>
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<td>Cauliflower</td>
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<td>Celery</td>
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<td>Cucumber</td>
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<td>Cucumber - greenhouse</td>
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<td>Eggplant</td>
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<td>Eggplant - greenhouse</td>
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<td>Garlic</td>
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<td>Lettuce - head and leaf</td>
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<td>Lettuce - greenhouse</td>
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<td>Mint</td>
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<td>Non-bearing nursery stock</td>
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<td>Green - field</td>
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<td>Onion - dry bulb</td>
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<td>Parsley</td>
<td>X</td>
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<td>Pea/Bean (field and canning)</td>
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<td>Pepper - green</td>
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<td>Pepper - greenhouse</td>
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<td>Potatoes</td>
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<td>Pumpkin</td>
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<td>Reddish</td>
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<td>Radish</td>
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<td>Raddish</td>
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<td>Shallots - dry bul</td>
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<td>Sweet potato</td>
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<td>Sesame seed</td>
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<td>Tomato</td>
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<td>Tomato - greenhouse</td>
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<td>Turnip</td>
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*Non-bearing trees. Please call the Solutions Center at 1-800-667-3852 or visit corteva.ca for more information.
CROP GROUPINGS
**Berries**
(Crop Group 13-07 including blackberries, raspberries, blueberries and strawberries)

<table>
<thead>
<tr>
<th>Stage</th>
<th>Dormant</th>
<th>Bud swell to bud break</th>
<th>Tight cluster</th>
<th>Pink bud 5% bloom</th>
<th>Full bloom</th>
<th>Petal fall</th>
<th>Green fruit</th>
<th>Fruit colouring</th>
<th>Harvest</th>
</tr>
</thead>
</table>

### Insecticides

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>RE(24 hour)</th>
<th>PHI</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blueberry flea beetle</strong></td>
<td>Delegate™</td>
<td>Spinetoram 5 C</td>
<td>Ing 200 g</td>
<td>12 3 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Success™</td>
<td>Spinetoram 5 C</td>
<td>Ing 150-220 mL</td>
<td>3 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Entrust™</td>
<td>Spinetoram 5 C</td>
<td>Ing 292 mL</td>
<td>3 3</td>
<td></td>
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<td></td>
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<tr>
<td><strong>Oblique-banded leafroller (spotted wing planthopper)</strong></td>
<td>Delegate™</td>
<td>Spinetoram 5 C</td>
<td>Ing 100-200 g</td>
<td>12 3 3</td>
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<tr>
<td></td>
<td>Success™</td>
<td>Spinetoram 5 C</td>
<td>Ing 250-300 g</td>
<td>12 3 3</td>
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<tr>
<td></td>
<td>Entrust™</td>
<td>Spinetoram 5 C</td>
<td>Ing 334-440 mL</td>
<td>12 3 3</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Strawberry cutworm</strong></td>
<td>Lorsban™ NT</td>
<td>Chlorpyrifos 1B</td>
<td>C 1.2 L</td>
<td>1 day 20 1</td>
<td></td>
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<tr>
<td></td>
<td>Lorsban™ 50W</td>
<td>Chlorpyrifos 1B</td>
<td>C 500 g</td>
<td>1 day 20 1</td>
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<tr>
<td><strong>Thrips</strong>*</td>
<td>Delegate™</td>
<td>Spinetoram 5 C</td>
<td>Ing 200-280 g</td>
<td>12 1-3 3</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Success™</td>
<td>Spinetoram 5 C</td>
<td>Ing 145-220 mL</td>
<td>12 1-3 3</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Entrust™</td>
<td>Spinetoram 5 C</td>
<td>Ing 334-440 mL</td>
<td>12 1-3 3</td>
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### Fungicides

<table>
<thead>
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<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>RE(24 hour)</th>
<th>PHI</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Botrytis, grey mold, powdery mildew, mummy berry</strong></td>
<td>Fontelis™</td>
<td>Penthiopyrad 7 Pre, Cur 1-1.75 L</td>
<td>12 0 5.25 L</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Caneberry spur blight, botrytis, anthracnose</strong></td>
<td>Tanos™</td>
<td>Famoxadone + cymoxanil 11+27 Cur 340 g</td>
<td>9 9 3</td>
<td></td>
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<tr>
<td><strong>Powdery mildew</strong></td>
<td>Nova™</td>
<td>Myclobutanil 3 Pre, Cur 340 g</td>
<td>1-14 days 1-14 3-6</td>
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</table>

### Herbicides

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>RE(24 hour)</th>
<th>PHI</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Broadleaf weeds</strong></td>
<td>Kerb™ SC</td>
<td>Propyzamide 3 Systemic 6.5-10.4 L</td>
<td>24 40 1</td>
<td></td>
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<tr>
<td><strong>Non-selective weeds hard to control</strong></td>
<td>Lontrel™ XC</td>
<td>Clopyralid 4 Sys 0.83 L</td>
<td>12 40 1</td>
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### Nematicides

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<th>Rate/ha</th>
<th>RE(24 hour)</th>
<th>PHI</th>
<th>Max app. per year</th>
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</thead>
<tbody>
<tr>
<td><strong>Root lesion nematode (raspberries only)</strong></td>
<td>Vydate™</td>
<td>Oxamyl 1A C, Ing 9.35 L</td>
<td>3 3</td>
<td></td>
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</table>

*Apply only when bees are not visiting the area

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**Insecticides**

- Delegate™
- Entrust™
- GF-120 Fruit fly bait*
- Intrepid™
- Success™

**Fungicides**

- Indar™
- Fontem™
- Nova™

**Herbicides**

- Kerb™ SC
- Lontrel™ XC
- Prism™ SG
- VP480

* Suppress

This guide is a reference only. Always read and follow label directions.
Seeding Cotyledons Transplant 5 Leaves-Head start Head formation Maturity

INSECTICIDES:

- **Brassica** (Crop Group 5-13 including broccoli, cauliflower and cabbage)

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
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</thead>
<tbody>
<tr>
<td>Aphids</td>
<td><strong>Closer™</strong></td>
<td>Sulfoxaflor</td>
<td>C</td>
<td>0.18-0.36 mL</td>
<td>3 days*</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Cabbage looper, Diamondback moth, Imported cabbage worm</td>
<td><strong>Lannate™</strong></td>
<td>Methomyl</td>
<td>C, Ing</td>
<td>25-50 mL/2000 plants</td>
<td>2 days</td>
<td>3</td>
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<tr>
<td>Cabbage maggot</td>
<td><strong>Lorsban™ NT</strong></td>
<td>Chlorpyrifos</td>
<td>C, Ing</td>
<td>775 g</td>
<td>2 days</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Fleabeeses</td>
<td><strong>Success™</strong></td>
<td>Spinosad</td>
<td>C, Ing</td>
<td>175 mL</td>
<td>2 days</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Sclerotinia stem rot (suppression), Alternaria leaf spot, Powdery mildew</td>
<td><strong>Fontelis™</strong></td>
<td>Penthiopyrad</td>
<td>Pre, Cur</td>
<td>1.25-2 mL</td>
<td>1</td>
<td>0</td>
<td>5.25 L</td>
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<tr>
<td><strong>Lontrel™ XC</strong></td>
<td>Clopyralid</td>
<td>Contact</td>
<td>0.34 L</td>
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**Note:**
- Apply from established transplant, about 7 days after transplantation up to approx 8-10 leaves.
- Suppression
- N.A. = Not available
- This guide is a reference only. Always read and follow label directions.
BULB VEGETABLES
(Crop Group 3 including green onion and garlic)

INSECTICIDES:
Delegate™
Entrust™
Lorsban™ 15G
Lorsban™ NT
Success™

FUNGICIDES:
Dithane™ Rainshield™
Fontelis™

INSECTICIDES

Cutworm
Lorsban™ NT
Chlorpyrifos 1B
C, Ing 2.4-4.8 L
24 60 1

Onion leafminer
Success™ Spinosad 5
C, Ing 218-262 mL
3 days 3 3
Entrust™ Spinosad 5
C, Ing 437-527 mL
3 days 3 3
Delegate™ Spinetoram 5
C, Ing 200-336 g
12 3 3

Onion maggot
Lorsban™ NT
Chlorpyrifos 1B
C, Ing 150 mL/1000 L
24 30 1

Thrips*
Success™ Spinosad 5
C, Ing 218-262 mL
3 days 3 3
Entrust™ Spinosad 5
C, Ing 437-527 mL
3 days 3 3
Delegate™ Spinetoram 5
C, Ing 200-336 g
12 3 3

FUNGICIDES

Botrytis leaf blight, Downy mildew, Bacterial leaf blight
Dithane™ Rainshield™
Mancozeb M
Pre 2.25-3.25 kg
24 100 N.A.

INSECTICIDES

Cutworm
Lorsban™ NT
Chlorpyrifos 1B
C, Ing 2.4-4.8 L
24 60 1

Onion leafminer
Success™ Spinosad 5
C, Ing 218-262 mL
3 days 3 3
Entrust™ Spinosad 5
C, Ing 437-527 mL
3 days 3 3
Delegate™ Spinetoram 5
C, Ing 200-336 g
12 3 3

Onion maggot
Lorsban™ NT
Chlorpyrifos 1B
C, Ing 150 mL/1000 L
24 30 1

Thrips*
Success™ Spinosad 5
C, Ing 218-262 mL
3 days 3 3
Entrust™ Spinosad 5
C, Ing 437-527 mL
3 days 3 3
Delegate™ Spinetoram 5
C, Ing 200-336 g
12 3 3

*Suppression
N.A. = Not available
This guide is a reference only. Always read and follow label directions.
**CRANBERRY**

**GROWTH STAGING GRAPHIC**

- **New growth**
- **Elongation**
- **Bloom**
- **Fruit growth**
- **Maturity**
- **Dormancy**

### INSECTICIDES:

- **Intrepid™**
- **Delegate™**
- **Success™**
- **Entrust™**

### FUNGICIDES:

- **Fontelis™**

### HERBICIDES:

- **Lontrel™ XC**

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**QUICK REFERENCE CHART**

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade-name</th>
<th>Active-ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHIs (days)</th>
<th>Max app. per year</th>
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<tbody>
<tr>
<td><strong>INSECTICIDES</strong></td>
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<tr>
<td>Blackheaded Fireworm</td>
<td>SpinAZ</td>
<td>Spinosad</td>
<td>C, Ing</td>
<td>365 mL</td>
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<td>3</td>
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<td>16</td>
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<td>Vetch</td>
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* Suppression  
** Wick application only  
N.A. = Not available  
This guide is a reference only. Always read and follow label directions. 

Apply only when bees are not visiting the area.
**FRUITING VEGETABLES**
(Crop Group 8-09 including tomato, pepper and eggplant)

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<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
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<td>Colorado potato beetles</td>
<td>Success™ Spinosad 5 C</td>
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<td>C</td>
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<td>50 mL</td>
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<td>Entrust™ Spinosad 5 C</td>
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<td>C</td>
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<td>Delegate™ Spinetoram 5 C</td>
<td>Spinetoram</td>
<td>C</td>
<td>Curative</td>
<td>160-200 g</td>
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<td>Cutworms</td>
<td>Lorsban™ NT Chlorpyrifos 1B</td>
<td>Chlorpyrifos</td>
<td>C, Ingestion</td>
<td>Preventative</td>
<td>1.2-2.4 L</td>
<td>24</td>
<td>7</td>
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<td><strong>FUNGICIDES</strong></td>
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<td>Early blight and late blight</td>
<td>Tanos™ Famoxadone + Cymoxanil 11+27</td>
<td>Famoxadone + Cymoxanil</td>
<td>Pre, Curative</td>
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<td>Gray mold and early blight</td>
<td>Fontelis™ Penthiopyrad 7</td>
<td>Penthiopyrad</td>
<td>Pre</td>
<td>Curative</td>
<td>1.25-1.75 L</td>
<td>12</td>
<td>0</td>
<td>5.25 L</td>
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<td>Late blight, Early blight, Anthracnose, Gray leaf spot</td>
<td>Lorsban™ NT Chlorpyrifos 1B</td>
<td>Chlorpyrifos</td>
<td>M</td>
<td>Preventative</td>
<td>1.5-2.25 kg</td>
<td>24</td>
<td>7</td>
<td>N.A.</td>
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</table>

* N.A. = Not available
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---

1 7-12 days after transplanting
2 Apply only when bees are not visiting the area
GRAPES

**GROWTH STAGING GRAPHIC**

**INSECTICIDES:**
- **Climbing Cutworm:**
  - *Intrepid™*
  - Methoxyfenozide 18 C, Ing 600 mL 12 30 3
- **Grape Berry Moth:**
  - *Delegate™*
  - Spinetoram 5 C, Ing 280 g 12 7 3
  - *Success™*
  - Spinosad 5 C, Ing 182 mL When dry to 15 days 12 7 3
- **Leafhoppers:**
  - *Closer™*
  - Sulfoxyflor 4b C, Ing 200-400 mL 7 2
- **Spotted-Wing Drosophila:**
  - *Success™*
  - Spinosad 5 C, Ing 182 mL When dry to 15 days 7 3
  - *Entrust™*
  - Spinosad 5 C, Ing 364 mL When dry to 15 days 7 3
- **Western Flower Thrips™:**
  - *Success™*
  - Spinosad 5 C, Ing 182 mL When dry to 15 days 7 3
  - *Entrust™*
  - Spinosad 5 C, Ing 364 mL When dry to 15 days 7 3

**FUNGICIDES:**
- **Black Rot:**
  - *Dithane™ Resorbe™*
  - Mancozeb M3 Pre 7.2 kg When dry 30
  - *Nova™*
  - Myclobutanil 3 Sys, local 200 g 12 - 14 days 14 5
- **Downy Mildew:**
  - *Dithane™ Resorbe™*
  - Mancozeb M3 Pre 7.2 kg When dry 30
- **Powdery Mildew:**
  - *Nova™*
  - Myclobutanil 3 Sys, local 200 g 12 - 14 days 14 5

**HERBICIDES:**
- **Broadleaf Weeds:**
  - *Prism™ SG*
  - Metolachlor 1 C 46 g 12 21 1
  - *VP480*
  - Glyphosate 9 Sys 1 pH-14 12 14 3

*Suppression
This guide is a reference only. Always read and follow label directions.
LEAFY VEGETABLES
(Crop Group 4-13 including lettuce and spinach)

GROWTH STAGING GRAPHIC

INSECTICIDES:
- Closer™
- Delegate™
- Entrust™
- Intrepid™
- Success™

FUNGICIDES:
- Fontelis™

HERBICIDES:
- Kerb™ SC

QUICK REFERENCE CHART

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
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<td>Aphids</td>
<td>Closer™</td>
<td>Sulfoxaflor</td>
<td>4C</td>
<td>100-150 mL</td>
<td>3 days</td>
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<td>Cabbage looper, Diamondback moth, Imported cabbage worm</td>
<td>Success™</td>
<td>Spinosad</td>
<td>S</td>
<td>182 mL</td>
<td>3 days</td>
<td>3</td>
<td>7-14</td>
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<tr>
<td></td>
<td>Entrust™</td>
<td>Spinetoram</td>
<td>S</td>
<td>364 mL</td>
<td>3 days</td>
<td>3</td>
<td>7-14</td>
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<td>Delegate™</td>
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<td>Success™</td>
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<td>Entrust™</td>
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<td>292 mL</td>
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<td>Delegate™</td>
<td>Spinetoram</td>
<td>S</td>
<td>200-336 g</td>
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<td>3</td>
<td>7-14</td>
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<td>Botrytis, Alternaria, White mold, Sclerotinia, Septoria leaf spot</td>
<td>Fontelis™</td>
<td>Penthiopyrad</td>
<td>7</td>
<td>1.25-1.75 L</td>
<td>12</td>
<td>3</td>
<td>6-16</td>
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<td>Broadleaf weeds</td>
<td>Kerb™ SC</td>
<td>Propyzamide</td>
<td>3</td>
<td>2.75 L</td>
<td>24</td>
<td>3</td>
<td>6-16</td>
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</table>

* Suppression
N.A. = Not available
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POME FRUIT
(Crop Group 11-09 including apple and pear)

GROWTH STAGING GRAPHIC

Green tip Half-inch green Tight cluster Pink Full Bloom Petal fall Fruit set Summer Harvest Dormant

INSECTICIDES:
Closer™
Delegate™
Entrust™
GF-120 Fruit fly bait
Intrepid™
success™

FUNGICIDES:
Dithane™
Rainshield™
Fontelis™
Nova™

HERBICIDES:
Kerb™ SC
Lontrel™ XC
VP480

NEMATICIDES:
Vydate™

INSECTICIDES
Aphids; apple aphids, red spider mites
Closer™ Sulfoxyflor 4b C, Ing 100-200 mL 12 7 2
Vydate™ Oxamyl 1A C, Ing 600 g 12 7 3

Apple maggot*
Delegate™ Spinetoram 5 C, Ing 420 g 12 7 3
Entrust™ Spinosad 5 C, Ing 364 mL 12 7 3
Intrepid™ Methoxyfenozide 18 Ing 0.75 L 12 7 2

Codling moth, Oriental fruit moth
Delegate™ Spinetoram 5 C, Ing 420 g 12 7 3
Entrust™ Spinosad 5 C, Ing 364 mL 12 7 3

Dogwood borer, apple clearwing moth
Delegate™ Spinetoram 5 C, Ing 420 g 12 7 2
Success™ Spinosad 5 C, Ing 125 mL 12 7 7
Entrust™ Spinosad 5 C, Ing 250 mL 12 7 7

Mullein bug, Woolly apple aphids
Closer™ Sulfoxyflor 4b C, Ing 400 mL 12 7 2

Pest Trade name Active ingredient Group Control Rate/ha REI (hours) PHIs (days) Max app. per year

APPROVALS

FUNGICIDES
Apple scab
Dithane™ Mancozeb M3 Pre 2 kg/1000 L 12 45
Fontelis™ Penthiopyrad 7 Pre, Cur 1-1.5 L 12 28 4.5 L/Ha
Nova™ Myclobutanil 3 Pre, Cur 340 g 0.5-12 days 14 6

Powdery Mildew
Fontelis™ Penthiopyrad 7 Pre, Cur 1-1.5 L 12 28 4.5 L/Ha
Nova™ Myclobutanil 3 Pre, Cur 340 g 0.5-12 days 14 6

Cedar apple rust
Fontelis™ Penthiopyrad 7 Pre, Cur 1-1.5 L 12 28 4.5 L/Ha
Nova™ Myclobutanil 3 Pre, Cur 340 g 0.5-12 days 14 6

HERBICIDES
Quack grass, annual grasses
Kerb™ SC Propyzamide 5 Sys 0.5-2 L 12 26

Broadleaf weeds and grasses
VP480 Glyphosate 9 Sys 1.69-9 L 12 30

Broadleaf weeds, vines
Lontrel™ XC Clopyralid 4 Sys 0.34 L 12 30

NEMATICIDES
Root lesion nematode
Vydate™ Oxamyl 1A Sys 126.8-760 mL 12 346

* Non-bearing apple only
** Non-bearing apple or non-bearing apple scab
*** Not available
**ROOT AND TUBER VEGETABLES**  
(Crop Group 1 including carrot, potato, sweet potato, radish and sugar beet)

### INSECTICIDES

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<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control Type</th>
<th>Rate/ha</th>
<th>PHI (days)</th>
<th>Max app./yr</th>
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<tbody>
<tr>
<td>Aphids</td>
<td>Success™</td>
<td>Spinosad 5 C, Ing</td>
<td>C, Ing</td>
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<td>Colorado potato beetles</td>
<td>Delegate™</td>
<td>Spinetoram 5 C, Ing</td>
<td>C, Ing</td>
<td>160-240 g</td>
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<td>Cutworms</td>
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<td>Chlorpyrifos 1B C, Ing</td>
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<td>160 g</td>
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<td>Closer™</td>
<td>Sulfoxaflor 4C C, Ing</td>
<td>C, Ing</td>
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### FUNGICIDES

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<th>Rate/ha</th>
<th>PHI (days)</th>
<th>Max app./yr</th>
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<td>Late blight and early blight</td>
<td>Curveplus™</td>
<td>Cymoxanil 27 Pre, Cur</td>
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<td>Tanos™</td>
<td>Famoxadone + Cymoxanil Y+X7 Car</td>
<td>C, Ing</td>
<td>560-860 g</td>
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### HERBICIDES

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<td>Broadleaf and grassy weeds</td>
<td>Prism™ SG</td>
<td>Rimsulfuron 2 C</td>
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<td>40 g</td>
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<td>30</td>
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- **Notes:**
  - Colorado potato beetles resistant to carbamates will not be controlled.
  - Early blight is controlled by the registered tank mix with a Group M fungicide.
  - Suppression
  - This chart is intended for reference only and not intended to provide information for application. Always read and follow label directions. Chart shows possible pest timing, not spray timing.
### STONE FRUIT
(Crop Group 12-09 including cherries, peaches and plums)

#### GROWTH STAGING GRAPHIC

<table>
<thead>
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<th>Stage</th>
<th>Dormant</th>
<th>Green tip</th>
<th>Pink</th>
<th>Bloom</th>
<th>Petal fall</th>
<th>Fruit set</th>
<th>Shuck split</th>
<th>Husk fall</th>
<th>Fruit size</th>
<th>Stone colour</th>
<th>Blush</th>
<th>Harvest</th>
<th>Post harvest</th>
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#### INSECTICIDES

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<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
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<td>Aphids; Green peach, Mealy plum, Black cherry</td>
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<td>Sulfoxyflor 4b</td>
<td>C, Ing</td>
<td>100-200 mL</td>
<td>12 hours</td>
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<td>Cherry fruit fly</td>
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<td>Spinetoram 5</td>
<td>C, Ing</td>
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<td>12 hours</td>
<td>7</td>
<td>6</td>
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<td>Peach leaf-borer, Lesser peach tree borer</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>1-5</td>
<td>3</td>
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<td>Peach twig borer</td>
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<td>Spinetoram 5</td>
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<td>Oblique-banded leafroller, Three-lined leafroller, Fruittree leafroller, European leafroller, Eye spotted budmoth</td>
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<td>Spinetoram 5</td>
<td>C, Ing</td>
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<td>12 hours</td>
<td>14</td>
<td>3</td>
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<td>Oriental Fruit moth</td>
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<td>C, Ing</td>
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<td>San Jose scale</td>
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<td>Spotted Wing drosophila</td>
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<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
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<td>14</td>
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#### FUNGICIDES

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<th>Pest</th>
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<th>Active ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black knot</td>
<td>Indar™</td>
<td>Fenbuconazole</td>
<td>Pre</td>
<td>140 g</td>
<td>12 hours</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>Blossom Blight</td>
<td>Fontelis™</td>
<td>Penthiopyrad 7</td>
<td>Pre, Cur</td>
<td>1-1.75 L</td>
<td>12 hours</td>
<td>0</td>
<td>4.5 L/Ha</td>
</tr>
<tr>
<td>Cherry leaf spot</td>
<td>Nova™</td>
<td>Myclobutanil 3</td>
<td>Pre</td>
<td>342 g</td>
<td>12</td>
<td>1 or 4</td>
<td>6</td>
</tr>
<tr>
<td>Cedar apple rust</td>
<td>Fontelis™</td>
<td>Penthiopyrad 7</td>
<td>Pre, Cur</td>
<td>364 g</td>
<td>12</td>
<td>12</td>
<td>0.9 L/Ha</td>
</tr>
<tr>
<td>Cherry twig rust</td>
<td>Fontelis™</td>
<td>Penthiopyrad 7</td>
<td>Pre, Cur</td>
<td>364 g</td>
<td>12</td>
<td>12</td>
<td>0.9 L/Ha</td>
</tr>
<tr>
<td>Leaf spot</td>
<td>Nova™</td>
<td>Myclobutanil 3</td>
<td>Pre</td>
<td>364 g</td>
<td>12</td>
<td>12</td>
<td>0.9 L/Ha</td>
</tr>
<tr>
<td>Powdery Mildew</td>
<td>Nova™</td>
<td>Myclobutanil 3</td>
<td>Pre</td>
<td>364 g</td>
<td>12</td>
<td>12</td>
<td>0.9 L/Ha</td>
</tr>
<tr>
<td>Scab</td>
<td>Nova™</td>
<td>Myclobutanil 3</td>
<td>Pre</td>
<td>364 g</td>
<td>12</td>
<td>12</td>
<td>0.9 L/Ha</td>
</tr>
</tbody>
</table>

#### HERBICIDES

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadleaf weeds, vetch</td>
<td>Lontrel™ XC</td>
<td>Clopyralid 4</td>
<td>Sys</td>
<td>0.28-0.30 L</td>
<td>12</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Broadleaf and gramineous weeds.</td>
<td>Lontrel™ XC</td>
<td>Clopyralid 4</td>
<td>Sys</td>
<td>0.28-0.30 L</td>
<td>12</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Broadleaf and gramineous weeds.</td>
<td>Lontrel™ XC</td>
<td>Clopyralid 4</td>
<td>Sys</td>
<td>0.28-0.30 L</td>
<td>12</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

*Suppression

This guide is a reference only. Always read and follow label directions.

#### QUICK REFERENCE CHART

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHI (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphids; Green peach, Mealy plum, Black cherry</td>
<td>Closer™</td>
<td>Sulfoxyflor 4b</td>
<td>C, Ing</td>
<td>100-200 mL</td>
<td>12 hours</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>Cherry fruit fly</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Peach leaf-borer, Lesser peach tree borer</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>1-5</td>
<td>3</td>
</tr>
<tr>
<td>Peach twig borer</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>Oblique-banded leafroller, Three-lined leafroller, Fruittree leafroller, European leafroller, Eye spotted budmoth</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>Oriental Fruit moth</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>San Jose scale</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>Spotted Wing drosophila</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>Western flower thrips*</td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, Ing</td>
<td>364 mL</td>
<td>12 hours</td>
<td>14</td>
<td>3</td>
</tr>
</tbody>
</table>

*Suppression

This guide is a reference only. Always read and follow label directions.
### INSECTICIDES

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHIs (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphids</td>
<td>Closer™</td>
<td>Sulfoxaflor 4C</td>
<td>C, ing</td>
<td>C, ing</td>
<td>50-90 mL</td>
<td>12</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Lannate™</td>
<td>Methomyl 1A</td>
<td>C, ing</td>
<td>C, ing</td>
<td>430-620 g</td>
<td>12</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Cutworms</td>
<td>Lorsban™ NT</td>
<td>Chlorpyrifos 1B</td>
<td>C, ing</td>
<td>C, ing</td>
<td>1.2-2.4 L</td>
<td>24</td>
<td>70</td>
<td>1</td>
</tr>
<tr>
<td>European corn borer</td>
<td>Lannate™</td>
<td>Methomyl 1A</td>
<td>C, ing</td>
<td>C, ing</td>
<td>625 g</td>
<td>12</td>
<td>3</td>
<td>1</td>
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<tr>
<td></td>
<td>Success™</td>
<td>Spinosad 5</td>
<td>C, ing</td>
<td>C, ing</td>
<td>1.7 mL</td>
<td>7</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Entrust™</td>
<td>Spinosad 5</td>
<td>C, ing</td>
<td>C, ing</td>
<td>1.7 mL</td>
<td>7</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Delegate™</td>
<td>Spinetoram 5</td>
<td>C, ing</td>
<td>C, ing</td>
<td>120-210 g</td>
<td>12</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intrepid™</td>
<td>Methoxyfenozide 18A</td>
<td>C</td>
<td>300-600 mL</td>
<td>12</td>
<td>3</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Western bean cutworm</td>
<td>Lannate™</td>
<td>Methoxyfenozide 18A</td>
<td>C</td>
<td>300-600 mL</td>
<td>12</td>
<td>3</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

### FUNGICIDES

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHIs (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern corn leaf blight</td>
<td>Acapela™</td>
<td>Picoxystrobin</td>
<td>11</td>
<td>Sys, Pre, Cur</td>
<td>530-800 mL</td>
<td>12</td>
<td>7</td>
<td>3 B.L.</td>
</tr>
</tbody>
</table>

### HERBICIDES

<table>
<thead>
<tr>
<th>Pest</th>
<th>Trade name</th>
<th>Active ingredient</th>
<th>Group</th>
<th>Control</th>
<th>Rate/ha</th>
<th>REI (hours)</th>
<th>PHIs (days)</th>
<th>Max app. per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grass weeds (Quackgrass, Barnyard grass, Persicaria, Foxtails)</td>
<td>Acapela™</td>
<td>Nicosulfuron</td>
<td>2</td>
<td>Contact</td>
<td>1 pouch</td>
<td>12</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

**N.A.** = Not available

This guide is a reference only. Always read and follow label directions.

- **Apply only when bees are not visiting the area**
**TARGET PESTS**
- Aphids
- Leafhoppers
- Mullein bug
- San Jose scale
- Woolly apple aphid
- Tarnished plant bug

**CROPS**
- Corn (field, sweet, seed and popping)
- Brassica (cole) leafy vegetables
- Grape
- Leafy vegetables
- Pome fruits
- Root and tuber vegetables
- Stone fruits
- Tree nuts

**FORMULATION AND PACKAGING**
- Suspension concentrate
- 12 x 1 L jugs

**EXCEPTIONAL SPEED AND CONTROL OF APHIDS AND SCALE IN VEGETABLE, FRUIT AND FIELD CROPS.**

Nothing works faster to control aphids, tarnished plant bug, leaf hoppers and scale in your crops.

Closer™ insecticide is comprised of Isoclast™ active, a Group 4C insecticide, ideal for controlling insects resistant to other classes. It moves quickly through the plant to control pests through both contact and ingestion. Closer is selective and can be used safely around beneficial populations when used according to the product label.

Closer insecticide controls economically important and difficult to control sap-feeding insects in pome fruits, root and tuber vegetables, stone fruits, brassica (cole), leafy vegetables, grapes, leafy vegetables, and corn (field, sweet, seed and popping).

**TARGET PESTS**
- Apple clearwing moth
- Apple maggot
- Armyworm
- Asparagus beetle
- Blackheaded fireworm
- Dogwood borer
- European corn borer
- Eye-spotted bud moth
- Flea beetle
- Grapeberry moth
- Imported cabbageworm
- Leafminer
- Leek moth
- Oriental fruit moth
- Peach tree borer
- Plum curculio
- Sparganothis fruitworm
- Spotted wing drosophila
- Thrips
- Walnut and butternut curculio
- Walnut husk fly
- Western bean cutworm
- Winter moth

**CROPS**
- Asparagus
- Basil
- Brassica (cole) leafy vegetables
- Bulb vegetables
- Bushberry
- Caneberry
- Cereals
- Corn (sweet, seed and popcorn)
- Cranberry
- Dill
- Fruiting vegetables
- Greenhouse vegetables
- Leafy vegetables
- Leaves of root vegetables
- Mint
- Non-bearing nursery stock
- Pome fruits
- Potatoes
- Root vegetables
- Soybeans
- Stone fruits
- Strawberry
- Tree nuts

**FORMULATION AND PACKAGING**
- Wettable granule
- 6 x 840 g bottles

**5 GROUP**

**HIGH PERFORMANCE CONTROL THAT’S FAST ACTING, LONG LASTING AND BROAD SPECTRUM.**

Delegate™ insecticide is a proven fruit and vegetable insecticide from the spinosyn chemistry class that provides long-lasting control of a broad spectrum of insect pests. Insects are controlled two ways – by contact and ingestion – for quick knockdown and residual activity. Delegate also possesses translaminar ability, giving extra protection against insects that feed from the underside of leaves, and increased resistance to wash off by rain.

Delegate is registered for aerial application in potatoes and corn (field, sweet, seed and popping).

**Precautions**
- Do not make applications less than seven days apart.
- DO NOT apply this product during crop flowering period or when flowering weeds are present in the treatment areas (except for potatoes where applications during crop flowering period are allowed).
- For REIs for various crops see Quick Reference Charts.
- For Woolly apple aphid control; it is recommended to add MSO or other horticultural oil at 0.2% v/v. Applications made with dormant oil does not require additional MSO.

This guide is a reference only. For more information on use directions, please refer to the product label.

**TARGET PESTS**
- Apple cleaning moth
- Apple maggot
- Armyworm
- Asparagus beetle
- Blackheaded Fireworm
- Blueberry flea beetle
- Blueberry spanworm
- Cabbage looper
- Cherry fruit fly
- Codling moth
- Colorado potato beetle
- Cranberry tipworm
- Dogwood borer
- European corn borer
- Eye-spotted bud moth
- Flea beetle
- Grapeberry moth
- Imported cabbageworm
- Leafminer
- Leek moth
- Oriental fruit moth
- Peach tree borer
- Plum curculio
- Sparganothis fruitworm
- Spotted wing drosophila
- Thrips
- Walnut and butternut curculio
- Walnut husk fly
- Western bean cutworm
- Winter moth

**CROPS**
- Asparagus
- Basil
- Brassica (cole) leafy vegetables
- Bulb vegetables
- Bushberry
- Caneberry
- Cereals
- Corn (sweet, seed and popcorn)
- Cranberry
- Dill
- Fruiting vegetables
- Greenhouse vegetables
- Leafy vegetables
- Leaves of root vegetables
- Mint
- Non-bearing nursery stock
- Pome fruits
- Potatoes
- Root vegetables
- Soybeans
- Stone fruits
- Strawberry
- Tree nuts

**FORMULATION AND PACKAGING**
- Wettable granule
- 6 x 840 g bottles

**Precautions**
- Maximum of three applications per year, depending on crop.
- Spray solution pH can affect the performance of Delegate™ insecticide. A pH between 5 and 9 is preferred for optimal performance.
- Delegate™ insecticide is toxic to bees exposed to direct treatment, drift or residues on flowering crops or weeds. Do not apply this product to flowering crops or weeds if bees are visiting the treatments area.
- For REIs for various crops see Quick Reference Charts.

This guide is a reference only. For more information on use directions, please refer to the product label.
Entrust™ insecticide provides the performance organic growers have come to trust. It is listed by Ecocert Canada for use in organic crops. Entrust is selective, and possesses a unique mode of action with low impact on beneficial insects making it a perfect fit in integrated pest management programs when used according to the product label.

Entrust controls insects through both contact and ingestion.

**TARGET PESTS**
- Asparagus beetle
- Blackheaded fireworm
- Blueberry flea beetle
- Blueberry spanworm
- Cabbage looper
- Cherry fruit fly
- Clearwing moth
- Codling moth
- Colorado potato beetle
- Cranberry fruitworm
- Crucifer flea beetle
- Diamondback moth
- European corn borer
- Eye-spotted bud moth
- Grapeberry moth
- Imported cabbageworm
- Leafroller species (oblique-banded, three-lined, fruit tree and European)
- Leek moth
- Peach twig borer
- Spanworm
- Sparganothis fruitworm
- Spotted wing drosophila
- Sweida midge
- Thrips
- Tuber flea beetle
- Western flower thrip
- Winter moth

**CROPS**
- Apple
- Asparagus
- Basil
- Brassica (cole) leafy vegetables
- Broccoli greenhouse transplants
- Bulb vegetables
- Bushberry
- Cranberry
- Cherry - sweet and tart
- Cranberry
- Oil seed
- Fruiting vegetables
- Ginseng
- Grape
- Greenhouse vegetables, lettuce, cucumber, pepper, tomato and eggplant
- Leafy vegetables
- Low-growing berry
- Pome fruits
- Potatoes
- Root and tuber vegetables
- Snap beans
- Stone fruits
- Sweet corn
- Walnuts

**FORMULATION AND PACKAGING**
- Liquid suspension
- 4 x 3.78 L jugs

GF-120 Fruit Fly Bait performs as a true bait, attracting only targeted insects. The goal is to strategically place large droplets where flies will find them in their normal search for food. Uniform coverage is not as critical as with conventional sprays. The application technique for GF-120 is an ultra low volume application, but with large droplets. Listed by Ecocert Canada to be used for the protection of certified organically grown crops.

**TARGET PESTS**
- Apple maggot
- Blueberry maggot
- Cherry fruit fly
- Walnut husk fly

**CROPS**
- Apple
- Blueberry
- Cherry
- Walnut

**FORMULATION AND PACKAGING**
- Liquid suspension
- 4 x 3.78 L jugs

**Precautions**
- Blueberry: Do not exceed five applications per season.
- Apple, cherry and walnut: Do not exceed 10 applications per season.
- This product resists wash off but will lose effectiveness if exposed to rain and overhead irrigation.
- Once diluted, GF-120 should be used within 24 hours.
- Large droplets (5 millimeters in diameter) help the product remain viable in the field for longer periods of time.
- Do not apply during periods when heavy rain is expected. Reapply immediately after rain.
- For REIs for various crops see Quick Reference Charts.
PERFORMANCE AND PEACE OF MIND. WITH INTREPID™, THERE’S NO NEED TO CHOOSE.

Intrepid™ insecticide initiates a lethal premature molt in specific lepidopterous pests (caterpillars) while not adversely affecting beneficial insect populations such as bees, making it ideal for integrated pest management programs.

Intrepid has both ovicidal and larvicidal activity. Ingestion is the main source of activity on pests, causing the larvae to stop feeding within 24 hours and providing long residual control for 10 to 14 days after application.

**TARGET PESTS**
- Armyworm
- Blackheaded fireworm
- Cabbage looper
- Climbing cutworm
- Codling moth
- Cranberry fruitworm
- Diamondback moth
- Garden web worm
- Grape berry moth
- Imported cabbage worm
- Oblique-banded leafroller
- Oriental fruit moth
- Peach twig borer
- Spanworm
- Sparganothis fruitworm
- Spotted tentiform leaf miner
- Three-lined leaf roller
- NEW Western bean cut worm
- Western tentiform leafminer
- Winter moth

**CROPS**
- Brassica (cole) leafy vegetables
- Bushberry
- Cranberry
- Cucurbit vegetables
- Edible-podded legume vegetables
- Fruiting vegetables
- Grape
- Herbs (except chives)
- Leafy vegetables
- Fruiting vegetables
- Stone fruits
- Succulent shelled peas and beans
- Tree nuts
- Tuberosus and corn vegetables

**FORMULATION AND PACKAGING**
- Liquid suspension
- 4 x 4 L jugs

**Precautions**
- Do not apply more than 2 L/ha of Intrepid per year.
- Maximum one to three applications per season.
- Intrepid is registered for application through chemigation. Please refer to label for application directions.
- For REIs for various crops see Quick Reference Charts.

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**LANNATE™**

**INSECTICIDE**

BROAD-SPECTRUM INSECT CONTROL ON A WIDE RANGE OF CROPS.

Effective against adults, nymphs, larvae and eggs of many pest species.

**TARGET PESTS**
- Alfalfa looper
- Aphids
- Apple aphids
- Bristle corn worm
- Brown marmorated stink bug
- Cabbage looper
- Climbing moths
- Corn earworm
- Diamondback moth
- Flea beetles
- Imported cabbage worm
- Leatherners
- Mullein bug
- Oblique-banded leafroller
- Pea aphid
- Slugs (larvae of grey garden slug)
- Spotted tentiform leaf miner
- Tomato fruit worm
- Variegated cutworm
- White apple leafhopper
- Winter moth

**CROPS**
- Broccoli
- Brussel Sprouts
- Cauliflower
- Corn – field, sweet, seed and popcorn
- Cranberry
- Cucurbit vegetables
- Dried beans
- Edible-podded legume vegetables
- Edible podded pea vegetables
- Edible-podded soybean vegetables
- Leafy vegetables
- Pome fruits
- Stone fruits
- Succulent shelled peas and beans
- Tree nuts
- Tuberous and corm vegetables
- Water soluble

**FORMULATION AND PACKAGING**
- Water soluble
- 24 x 225 g bags

**Precautions**
- Do not graze or harvest for livestock feed.
- For REIs for various crops see Quick Reference Charts.

The guide is a reference only. For more information on use directions, please refer to the product label.
**THREE UNIQUE MODES OF ACTION FOR THE BEST POSSIBLE INSECT CONTROL.**

Lorsban™ NT insecticide offers the same great efficacy, quick knockdown and residual control that growers have come to expect from the Lorsban brand for over 30 years. It offers all the same benefits, but has the added advantage of lower odour. Lorsban NT controls insects not only by contact, but also through ingestion and vapour inhalation.

**TARGET PESTS**
- Army cutworm
- Black cutworm
- Colorado potato beetle (larvae)
- Darkside cutworm
- Eggplant aphid
- Onion maggot
- Pale western cutworm
- Potato flea beetle
- Seed weevil
- Strawberry cutworm (crown borer)
- Tarnished plant bug

**CROPS**
- Asian radish
- Broccoli
- Brussel Sprouts
- Bulb onion
- Cauliflower
- Carrot
- Cabbage
- Carrot
- Celery
- Chinese broccoli
- Chinese cabbage
- Corn – field and sweet
- Cucumber
- Filberts
- Garlic
- Green onion
- Green peppers
- Pak-choi
- Potatoes
- Radish
- Rutabaga
- Strawberry
- Sugar beet
- Sunflower
- Tobacco

**FORMULATION AND PACKAGING**
- Emulsifiable concentrate
- 2 x 10 L jugs

**Precautions**
- This product is not to be used in and around homes or other residential areas such as parks, school grounds or playing fields. It is not for use by homeowners or other uncertified users.
- Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.
- This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Avoid use when bees are actively foraging.
- Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift.
- For REIs for various crops see Quick Reference Charts. Workers who must enter fields within this time period should wear a long-sleeved shirt, long pants, chemical-resistant gloves and an approved respirator with a cartridge capable of removing organic compounds.

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**DEPENDABLE PRE-EMERGENT INSECT CONTROL.**

Lorsban™ 15G insecticide is an insecticidal row treatment for control of larval pests. It is non-systemic in plants, so the active ingredient is not taken up by the plant.

**TARGET PESTS**
- Cabbage maggot (larvae)
- Cutworm
- Northern corn rootworm (larvae)
- Onion maggot (larvae)
- Western corn rootworm (larvae)

**CROPS**
- Broccoli
- Brussel sprouts
- Cauliflower
- Cabbage
- Carrot
- Rutabaga

**FORMULATION AND PACKAGING**
- Granule
- 22.7 kg bag

**Precautions**
- Granules should be completely incorporated. Granule deposits from spills and accumulation at row ends should be covered with soil.
- This product is toxic to bees exposed to direct treatment, drift or residues on flowering crops or weeds. Do not use on flowering crops or weeds.
- Do not apply directly to water or wetlands as this pesticide is toxic to birds and wildlife and extremely toxic to fish and aquatic organisms.
- This product is not to be used in and around homes or other residential areas such as parks, school grounds or playing fields. It is not for use by homeowners or other uncertified users.
- For REIs for various crops see Quick Reference Charts. Workers who must enter fields within this time period should wear a long-sleeved shirt, long pants, chemical-resistant gloves and an approved respirator with a cartridge capable of removing organic compounds.

This guide is a reference only. For more information on use directions, please refer to the product label.
**Reliable, Easy-to-Use Insect Control.**

Apply as a liquid solution to the soil (for certain insects), or to foliage by either ground or aerial sprayers. The unique three-way mode of action that works to control insect pests by contact, ingestion and inhalation of the vapour.

**Target Pests**
- Black cutworm
- Cabbage maggot
- Colorado potato beetle larvae
- Darksided cutworm
- Oriental fruit moth
- Potato flea beetle
- Redbacked cutworm
- Strawberry cutworm (crown borer)
- Tarnished plant bug

**Crops**
- Broccoli
- Brussels sprouts
- Cabbage
- Carrot
- Cauliflower
- Celery
- Chinese cabbage
- Cucumber
- Field corn
- Green pepper
- Nectarine
- Onion (excluding bunching onions)
- Peach
- Potatoes
- Rutabaga
- Strawberry
- Sweet corn
- Tobacco

**Precautions**
- Do not apply by air.
- Water-soluble packets may become brittle when stored below 0 degrees celcius.
- This product is highly toxic to bees exposed to direct treatment, drift or residues on blooming plants. Do not use on flowering crops or weeds.
- Observe buffer zones – Keep out of lakes, streams, ponds and other waterways.
- This product is not to be used in and around homes or other residential areas such as parks, school grounds or playing fields. It is not for use by homeowners or other uncertified users.

**Formulation and Packaging**
- Wettable powder
- 4 x 2 kg bags

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**Success. It’s What Happened When We Set Out to Revolutionize What an Insecticide Can Do.**

Success™ insecticide is a revolutionary bio-insecticide, active on several important insects, with a unique mode of action. It can be safely used around beneficial insects when used according to the product label making it a perfect fit in integrated pest management programs. The active ingredient in Success is spinosad, it belongs to a revolutionary class of insect control products called Naturalyte. These insect control products are natural metabolites derived from living organisms. Spinosad is produced by fermentation of naturally occurring bacteria (Saccharopolyspora spinosa).

**Target Pests**
- Asparagus beetle
- Blueberry flea beetle
- Blackheadad fireworm
- Cabbage looper
- Cabbage maggot
- Clearwing moth
- Colorado potato beetle (larvae)
- Cranberry fruitworm
- Diamondback moth
- European corn borer larvae
- Eye-spotted budmoth
- Flea beetle
- Grapeberry moth
- Imported cabbageworm
- Leaffolder species (lobeline-banded, three-lined, fruittree and European)
- Leaf moth
- Peach twig borer
- Potato stem borer
- Prairie tent caterpillar
- Spanworm
- Sparganothis fruitworm
- Spotted wing drosophila
- Swede midge
- Thrips
- Winter moth

**Crops**
- Asparagus
- Basil
- Broccoli
- Caneberry
- Chokecherry
- Cranberry
- Dill seed
- Grape
- Greenhouse ornamentals
- Greenhouse vegetables
- Leafy vegetables
-Low growing berries
- Onions
- Pome fruit
- Potatoes
- Rhubarb
- Root and tuber vegetables
- Snap bean
- Strawberry
- Stone fruits
- Sweet corn

**Precautions**
- Avoid use when bees are actively foraging.
- Sweet corn, fruiting vegetables: Do not exceed two applications per year.
- Brassica head and stem vegetables: Do not exceed one application per year.
- Other registered crops: Do not exceed three applications per year.
- Spray solution pH can affect the performance of Success. A pH between 6 and 8 is preferred for optimal performance.

**Drench Application on Brassica Transplants**
- Water the plant first prior to the application of Success.
- Apply 12.5 mL of Success per 1,000 plants.
- After application, water again to ensure the product reaches the roots.
- Success should be applied 24 hours to the plants before being transplanted.

**Formulation and Packaging**
- Liquid suspension
- 12 x 1 L jugs
EFFECTIVE CONTROL OF VARIOUS INSECTS, INCLUDING COLORADO POTATO BEETLE AND NEMATODES.

Vydate™ insecticide, a Group 1A effectively controls various insect pests in non-bearing apple trees, potatoes and raspberries.

TARGET PESTS
• Aphids (green peach, potato)
• Apple rust mites
• Colorado potato beetle
• European red mites
• Flea beetles
• Foliar treatment
• Green apple aphid
• Leafhoppers
• Leafrollers
• Potato leafhopper
• Raspberry root-lesion nematode
• Root-lesion nematodes
• Rosy apple aphid
• Soil drench treatment
• Tarnished plant bug
• Tentiform leafminers
• Two spotted spider mites

CROPS
• Non-bearing apple trees
• Potatoes
• Raspberries

FORMULATION AND PACKAGING
• Water soluble liquid
• 2 x 9.6 L jug

Precautions
• Maximum 2 applications in potatoes with a minimum 14 days between applications
• Do not apply this product while bees are actively visiting the treatment area
  1 Colorado potato beetles resistant to carbamates will not be controlled.

Crop | Activity | Restricted Entry Interval
--- | --- | ---
Non-bearing apple trees | Hand pruning, scouting, training | 7 days
 | Hand thinning | 32 days
 | All other activities | 12 hours
Raspberries | All activities | 12 hours
Potatoes | Irrigation (hand set) | 3 days
 | Roguing | 1 day
 | All other activities | 12 hours

This guide is a reference only. For more information on use directions, please refer to the product label.
SPEED, AGILITY AND EXCEPTIONAL COVERAGE.
- Acapela™ fungicide has one-of-a-kind movement properties that help provide superior coverage to deliver reliable disease control under a variety of conditions
  - Rapid uptake, excellent xylem systemic movement and redistribution over the leaf surface
- Acapela provides control of important foliar diseases including Northern leaf blight and helps to deliver healthier crops and higher yield potential

TARGET DISEASES
- Northern corn leaf blight
- Sclerotinia rot (white mould)
- Purple blotch
- Botrytis neck rot
- Botrytis blight (Suppression)
- Leaf spot
- Powdery Mildew
- Rust (Suppression)
- Rhizoctonia root and crown rot (Suppression)

CROPS
- Corn (field, seed, sweet and popping)
- Dry edible beans
- Bulb vegetables
- Sugar beets

FORMULATION AND PACKAGING
- Suspension concentrate
- 2 x 9.6 L jugs

GROUP 11

CURZATE HAS BEEN BEATING BLIGHT FOR OVER 40 YEARS.
Curzate™ fungicide is highly effective with its locally systemic activity. It rapidly penetrates the foliage and stem surfaces to provide multi-levels of fast-acting disease control. Curzate can help stop disease post-infection but cannot reverse damage already done, so make sure you apply prior to symptoms appearing. Always tank-mix with a preventative broad-spectrum fungicide to control early blight. Curzate employs a combination of preventative, post-infection and antisporulant activity.

TARGET DISEASES
- Late blight

CROPS
- Potatoes

FORMULATION AND PACKAGING
- Dry flowable
- 5 x 1.8 kg bag

GROUP 27

Precautions
- Initial applications should start when local conditions indicate that late blight is imminent; make additional applications at 5–7 day intervals, however at least 20 days must pass between the 2nd and 3rd application.
- If disease conditions are present during this 20 day period, a fungicide other than Curzate must be used to protect the crop during this period.
- Apply no more than 4 applications per crop.
- The disease early blight is controlled by the registered tank-mix with a Group M fungicide such as Dithane Rainshield.

This guide is a reference only. For more information on use directions, please refer to the product label.
Dithane™ Rainshield™ fungicide provides broad spectrum disease control and acts on six enzymatic pathways in the fungal cell to inhibit spore germination. It is a high quality mancozeb contact fungicide with broad registrations on more than 30 vegetable, fruit, field, vine and specialty crops. Dithane’s unique multi-site activity explains why no fungal resistance has developed in over 40 years of use. In the field, that means consistent performance and reliable protection throughout the season, right up to harvest.

Dithane Rainshield contains innovative formulation technology that contributes to greater adhesion, better nozzle flow, quick dispersion, suspendability in the spray tank and less foaming.

**TARGET DISEASES**
- Algae leaf
- Alternaria leaf spot and blight
- Anthracnose
- Black rot
- Blue mold
- Botrytis leaf blight
- Cedar apple rust
- Coryneum blight
- Dickeya
- Downy mildew
- Early blight
- Gummy stem blight
- Honeysuckle blight
- Kaphia blight
- Late blight
- Leaf blight
- Leaf rust
- Leaf spot diseases
- Lophodermium needle cast
- Onion smut
- Pear trellis rust
- Quince rust
- Rhododendron needle cast
- Scab
- Septoria leaf blotch
- Stem spot disease
- Stemphyllium
- Tan spot
- Twig blight

**CROPS**
- Alfalfa (seed production)
- Apples
- Carrots
- Celery
- Cucurbits
- Ginseng
- Grape
- Herbs
- Honeysuckle
- Onion
- Ornamentals
- Potatoes
- Tobacco
- Tomatoes
- Wheat

**FORMULATION AND PACKAGING**
- Dispersible granule
- 20 kg bag

**Precautions**
- Rinse out tank, pump and nozzles at the end of the day so product does not settle out.
- Do not graze treated crops or cut for hay.
- The worker restricted entry interval (REI) is two hours (when spray has dried) for all crops.

**Fontelis™ fungicide** provides residual, preventative and post-infection activity on a broad-spectrum of key diseases such as apple scab, powdery mildew and botrytis. Its single mode of action allows for flexible application timing and disease management. Fontelis provides translaminar and systemic protection, and redistributes well to protect both the treated and untreated parts of the plant.

**TARGET DISEASES**
- Alternaria (blight and leafspot)
- Anthracnose
- Ascochyta (blight and leafspot)
- Asian soybean rust
- Botrytis (blight, fleck, gray mold, leaf blight and rot)
- Brown rot blossom blight and fruit rot
- Cedar apple rust
- Cherry leaf spot (cherry only)
- Early blight
- Early leaf spot
- Gray mold
- Late leaf spot
- Lettuce drop
- Mummy berry
- Powdery mildew
- Purple blotch
- Rust
- Scab
- Sclerotinia (blight and stem rot)
- Septoria leaf blight (celeriac and celery)
- Southern stem rot
- Web blotch

**CROPS**
- Alfalfa
- Low growing berries
- Bulb vegetables (green, dry)
- Brassica (cole) leafy vegetables
- Cucurbit vegetables
- Fruiting vegetables
- Leafy vegetables
- Lentum vegetables
- Pome fruits
- Root vegetables and leaves
- Stone fruit
- Tree nuts
- Peanuts

**PACKAGING**
- 2 x 9.6 L jugs

**Precautions**
- Make no more than 2 sequential applications of Fontelis fungicide before switching to a fungicide with a different mode of action.
- Maximum seasonal use rates apply dependent on the type of crop, please consult the label for more information.

This guide is a reference only. For more information on use directions, please refer to the product label.
**Indar™**

**FUNGICIDE**

**EXCELLENT CONTROL OF BLOSSOM BLIGHT, FRUIT BROWN ROT AND BLACK KNOT IN STONE FRUITS.**

*Indar™* fungicide protects the fruit and leaf by remaining on the fruit and leaf surface longer. It has locally systemic and curative activity, as well as strong residual activity.

**TARGET DISEASES**
- Black knot
- Blossom blight
- Fruit brown rot
- Mummy berry

**CROPS**
- Apricot
- Cherry
- Highbush blueberry
- Nectarine
- Peach
- Plum

**FORMULATION AND PACKAGING**
- Wettable powder
- 12 x 454 g bags

**Precautions**
- Do not apply through irrigation systems (chemigation).
- NOTE: Reduced product efficacy may occur if water containing suspended soil particles is used, such as water from ponds, streams or unlined ditches.
- A wetting agent or non-polymer containing spray adjuvant approved for use in registered pesticide products on fruit should be added to spray solutions according to manufacturers’ use instructions to achieve optimum disease control.
- The pouches of *Indar* are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank.
- For REIs for various crops see Quick Reference Charts.

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**Nova™**

**FUNGICIDE**

**EFFECTIVE DISEASE CONTROL IN FRUITS AND VEGETABLES INCLUDING APPLE, GRAPE AND STONE FRUITS.**

*Nova™* fungicide is a systemic product providing long-lasting, effective control of diseases such as apple scab, powdery mildew and rust in apples and other crops.

**TARGET DISEASES**
- Anthracnose
- Apple scab
- Black rot
- Black spot
- Brown rot
- Gummy stem blight
- Powdery mildew
- Rust diseases
- Scab
- Septoria leaf spot

**CROPS**
- Apple
- Asparagus
- Blackberry including highbush and lowbush blueberry
- Blackberry including blackberry and raspberry
- Cherry – sweet and tart
- Cucurbit vegetables including cantaloupe, cucumbers and pumpkin
- Dry beans
- Flowers
- Grape
- Greenhouse cucumber
- Greenhouse pepper
- Greenhouse tomato
- Pear
- Saskatoon berry
- Stone fruit including peach and nectarine
- Strawberry

**FORMULATION AND PACKAGING**
- Granule
- 12 x 560 g bags

**Precautions**
- Apple, peach, pear, nectarine, greenhouse cucumber, cherry, strawberry, flowers – Maximum of six applications per growing season.
- Grape, asparagus – Maximum five applications per growing season.
- Greenhouse pepper, Saskatoon berry – Maximum three applications of up to 340 g/ha per growing season.
- Greenhouse tomato – Maximum two applications per growing season.
- Dry beans – Maximum three applications per growing season.
- Copper products tank mixed with Nova reduce the effectiveness of the fungicide.
- For REIs for various crops see Quick Reference Charts.

This guide is a reference only. For more information on use directions, please refer to the product label.
IT WORKS. RAIN OR SHINE.

Tanos™ fungicide provides control of early blight, late blight and botrytis in a variety of crops. It offers both systemic and protectant activity, in addition to being resistant to wash off.

**TARGET DISEASES**
- Cane botrytis
- Caneberry (anthracnose and spur blight)
- Early blight
- Fruit rot (preharvest)
- Late blight

**CROPS**
- Caneberry
- Potatoes
- Tomatoes

**FORMULATION AND PACKAGING**
- Dry flowable
- 4 x 3.4 kg bags

**Precautions**
- Make the first application of Tanos fungicide following one to two applications of a preventative broad spectrum fungicide such as chlorothalonil or mancozeb.
- Make the second application no less than 2 days after the first; a third application may be made no less than 24 days after the second.
- Apply Tanos fungicide in a preventative program.
- When using Tanos fungicide in a fungicide program, a recommendation is to alternate with other fungicides to manage resistance.
- Use sufficient water to obtain thorough coverage.

This guide is a reference only. For more information on use directions, please refer to the product label.
TOUGH ON WEEDS. SAFE ON CORN.

Accent™ Herbicide controls a variety of grassy weeds in corn. It has a wide application window, is safe for use on low heat unit hybrids, and has excellent re-cropping flexibility.

**WEEDS CONTROLLED**
- Barnyard grass
- Fall panicum
- Green foxtail
- Long-spined sandbur
- Oxalis
- Quackgrass
- Yellow foxtail

**CROPS**
- Field corn
- Sweet corn (approved varieties only)

**FORMULATION AND PACKAGING**
- 75% Dry Flowable
- 4 x 2.5 acre bags

**GROUP**
2

**Precautions**
- Add a registered nonionic surfactant (NIS) such as Agral® 90 or Ag-Surf® at 2 L per 1000 L of spray solution (0.2% v/v).
- Agitation is required for uniform mixing and application. The optimum water volume for Accent 75 DF Herbicide application is 140-190 litres of water per hectare (minimum of 100 litres of water per hectare).

This guide is a reference only. For more information on use directions, please refer to the product label.

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**SOIL ACTIVE WEED CONTROL IN ORNAMENTALS AND SELECT HORTICULTURE CROPS.**

Kerb™ SC herbicide provides selective weed control in alfalfa, trefoil, ornamentals, strawberry, apple, pear, lowbush blueberry, lettuce and established pasture. Kerb SC Herbicide is readily absorbed by plants through the root system, translocated upward and distributed into the entire plant.

**WEEDS CONTROLLED**
- Chickweed
- Foxtail barley
- Orchardgrass
- Quackgrass
- Sheep sorrel
- Timothy
- Volunteer wheat
- Wild oats

**CROPS**
- Alfalfa
- Apple
- Blueberry
- Established grassland
- Lettuce
- Ornamentals
- Pear
- Strawberry
- Trefoil

**FORMULATION AND PACKAGING**
- Liquid suspension
- 2 x 10 L jugs

**GROUP**
3

**Precautions**
- Do not make more than one application of Kerb SC per year.
- Herbicide activity is best when the soil organic matter is less than four percent. Use in soils with higher organic matter may result in inconsistent or incomplete weed control.
- Dandelion, thistles and other members of the Compositae family are not controlled by Kerb SC.
- Less tolerant grass species (e.g. tall fescue, creeping red fescue) may experience a 10 to 15 percent injury as a result of the treatment.
- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.
- For REIs for various crops see Quick Reference Charts.

This guide is a reference only. For more information on use directions, please refer to the product label.

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**Tough on Weeds. Safe on Corn.**

Accent™ Herbicide controls a variety of grassy weeds in corn. It has a wide application window, is safe for use on low heat unit hybrids, and has excellent re-cropping flexibility.

**WEEDS CONTROLLED**
- Barnyard grass
- Fall panicum
- Green foxtail
- Long-spined sandbur
- Oxalis
- Quackgrass
- Yellow foxtail

**CROPS**
- Field corn
- Sweet corn (approved varieties only)

**FORMULATION AND PACKAGING**
- 75% Dry Flowable
- 4 x 2.5 acre bags

**GROUP**
2

**Precautions**
- Add a registered nonionic surfactant (NIS) such as Agral® 90 or Ag-Surf® at 2 L per 1000 L of spray solution (0.2% v/v).
- Agitation is required for uniform mixing and application. The optimum water volume for Accent 75 DF Herbicide application is 140-190 litres of water per hectare (minimum of 100 litres of water per hectare).

This guide is a reference only. For more information on use directions, please refer to the product label.

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**SOIL ACTIVE WEED CONTROL IN ORNAMENTALS AND SELECT HORTICULTURE CROPS.**

Kerb™ SC herbicide provides selective weed control in alfalfa, trefoil, ornamentals, strawberry, apple, pear, lowbush blueberry, lettuce and established pasture. Kerb SC Herbicide is readily absorbed by plants through the root system, translocated upward and distributed into the entire plant.

**WEEDS CONTROLLED**
- Chickweed
- Foxtail barley
- Orchardgrass
- Quackgrass
- Sheep sorrel
- Timothy
- Volunteer wheat
- Wild oats

**CROPS**
- Alfalfa
- Apple
- Blueberry
- Established grassland
- Lettuce
- Ornamentals
- Pear
- Strawberry
- Trefoil

**FORMULATION AND PACKAGING**
- Liquid suspension
- 2 x 10 L jugs

**GROUP**
3

**Precautions**
- Do not make more than one application of Kerb SC per year.
- Herbicide activity is best when the soil organic matter is less than four percent. Use in soils with higher organic matter may result in inconsistent or incomplete weed control.
- Dandelion, thistles and other members of the Compositae family are not controlled by Kerb SC.
- Less tolerant grass species (e.g. tall fescue, creeping red fescue) may experience a 10 to 15 percent injury as a result of the treatment.
- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.
- For REIs for various crops see Quick Reference Charts.

This guide is a reference only. For more information on use directions, please refer to the product label.
Lontrel™ XC HERBICIDE

WEEDS CONTROLLED
- Alsike clover
- Broadleaf weeds
- Canada thistle
- Common groundsel
- Common ragweed
- Kudzu
- Coreopsis
- Perennial sow thistle (top growth control)
- Ragweed
- Red/white clover
- Scentless chamomile
- Sheep sorrel
- Tufted vetch
- Vetch
- Volunteer alfalfa
- Wild buckwheat

CROPS
- Balsam fir (Christmas tree plantations)
- Blueberry
- Brassica (cole) leafy vegetables
- Brussels sprouts
- Cranberry
- Crop and non-crop farmland areas
- Garden beets
- Hybrid poplars
- Pome fruit
- Rutabaga
- Spinach
- Stone fruit
- Strawberry
- Sugar beet
- Wide variety of oilseeds, cereals and grasses.

Lontrel can also be applied along fence lines and on non-crop land. See label for complete listing.

FORMULATION AND PACKAGING
- Emulsifiable concentrate
- 4 x 2.67 L jugs

Precautions
- Maximum of one application per year in all crops, with the exception of cranberry.
- Residues of the herbicide occurring in the straw may be harmful to susceptible plants; therefore, do not use straw or crop residue from treated crops for composting or mulching susceptible broadleaved crops. Do not grow susceptible crops such as peas, beans, lentils, potatoes, sunflowers or other sensitive crops on land that has been mulched with straw containing Lontrel residues within the last 12 months.
- For REIs for various crops see Quick Reference Charts.

OUTSTANDING POST-EMERGENT CONTROL OF QUACKGRASS, PIGWEED AND ANNUAL GRASSES.

Potato and field tomato growers look to Prism™ SG herbicide for its outstanding post-emergent control of key weeds such as quackgrass, redroot pigweed, barnyard grass, fall panicum, green foxtail, hairy nightshade, lamb’s-quarters (suppression), witchgrass and yellow foxtail.

Prism™ SG HERBICIDE

WEEDS CONTROLLED
- Barnyard grass
- Fall panicum
- Green foxtail
- Hairy nightshade
- Lambs-quarters
- Quackgrass
- Redroot pigweed
- Triazine resistant hairy nightshade
- Triazine resistant lambs-quarters
- Witchgrass
- Yellow foxtail

CROPS
- Blueberry (highbush)
- Cranberry
- Grapes
- Potatoes
- Tomatoes (field)

FORMULATION AND PACKAGING
- Soluble granule
- 10 x 480 g bottles

Precautions
- 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.

This guide is a reference only. For more information on use directions, please refer to the product label.
Precautions
- When using Ultim in field corn or lowbush blueberries, add a registered non-ionic (NIS) such as Agral® 90 or Ag-Surf at 2 L per 1000 L of spray solution (0.2% v/v).
- Agral® is a registered trademark of a Syngenta Group Company.

THE ULTIMATE CONTROL OF ANNUAL GRASSES AND QUACKGRASS.
Ultim™ herbicide is well-known for its outstanding control of annual grasses and quackgrass in field corn and black bullrush in lowbush blueberries.

WEEDS CONTROLLED
- Annual grasses
- Black bullrush
- Poverty oatgrass
- Quackgrass
- Redroot pigweed
- Ticklegrass

CROPS
- Field corn
- Lowbush blueberries (Eastern Canada only)

FORMULATION AND PACKAGING
- Dry flowable
- 8 x 270 g bags

2 GROUP

Precautions
- Apple, apricot, cherry (sweet, tart), peach, pear, plum, grape – Maximum three applications per year.
- Highbush blueberry, lowbush blueberry, cranberry, strawberry, sugar beet, asparagus – Maximum one application per year
- Walnut chestnut, Japanese heartnut – Maximum two applications per year
- Filbert hazelnut (established plantations) – Unrestricted maximum applications per year
- Do not apply more than 26 L/ha of this product per year.
- Extreme care must be exercised to avoid contact of herbicide spray solution, spray drift or mist with foliage or green bark of trunk, branches, suckers, fruit, canes of blueberry bushes, or other parts of trees or vines. Contact of this product with other than matured brown bark can result in serious crop damage.

This guide is a reference only. For more information on use directions, please refer to the product label.

NON-SELECTIVE WEED CONTROL IN TREE, VINE AND BERRY CROPS.
VP480 herbicide provides total, non-selective control of annual and perennial weeds in established vineyards or orchards, in blueberry, cranberry and strawberry, or for site preparation prior to transplanting tree and vine crops.

WEEDS CONTROLLED
- Annual broadleaf weeds
- Annual grass weeds
- Dodder species
- Perennial broadleaf weeds
- Perennial grasses/sedges
- Volunteer crops (except Roundup Ready® varieties)
- Winter annual weeds

CROPS
- Apple
- Apricot
- Asparagus
- Blueberry – highbush and lowbush
- Cherry – sweet and tart
- Cranberry
- Filbert hazelnut (established plantations)
- Grape
- Japanese heartnut
- Peach
- Pear
- Plum
- Strawberry
- Sugar beet
- Walnut chestnut

FORMULATION AND PACKAGING
- Solution
- 2 x 10 L jugs

This guide is a reference only. For more information on use directions, please refer to the product label.
**INTEGRATED PEST MANAGEMENT**

Integrated pest management (IPM) is a systematic decision-making process that supports a balanced approach to managing crop production systems through sound economic and environmental practices. Here are some of the principles:

- **Evaluate disease and pest populations through scouting and monitoring programs.**
- **Use practices to support resistance management, including proper application rates and techniques and rotation of chemical groups.**
- **Biological, chemical, cultural and mechanical methods are used to reduce pest populations.**
- **Control measures are implemented using the knowledge of known threshold levels for economic damage, the potential impact on beneficials and the crop value.**
- **Records are maintained for products use, product groups, application information and results achieved.**

Corteva Agriscience™ recommends consulting your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM recommendations for specific site and pest problems in your area.

### Crop Groups and Subgroups – Number and Home

<table>
<thead>
<tr>
<th>Crop Groups and Subgroups</th>
<th>Representative Commodities</th>
<th>Commodities</th>
</tr>
</thead>
</table>
| 1 Root and Tuber Vegetables | Carrot, potato, sweet potato, radish, sugar beet | Arachaca; arrowroot, artichoke, Chinese; artichoke, Jerusalem; beet, garden, beet, sugar; burdock, edible, canna, edible, carrot, cassava, bitter and sweet, ceilacris; chayote (root), chive, lump-stemmed, chive, (root), chives, dafodil, chrysanthemum, garlic, onion, shallot, fresh leaves, garlic, onion, chives, fritillaria, bulb, fritillaria, leaves; garlic, onion, pearl, onion, potato, garlic, 'tops, onion, Welsh, 'tops, shallot, bulb, shallot, bulb, shallot, bulb, garlic, garlic, sweet, sweet, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, garlic, 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### CROP GROUPS

<table>
<thead>
<tr>
<th>Crop Groups and Subgroups – Number and Name</th>
<th>Commodities</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-13. Succulent leafy greens subgroup</td>
<td>Mustard greens</td>
</tr>
<tr>
<td>5-13. Brassica Head and Stem Vegetables</td>
<td>Broccoli, cauliflower and cabbage</td>
</tr>
<tr>
<td>5-14. Legume Vegetables, (Succulent or Dried)</td>
<td>Bean (Phaseolus) and/or hybrids of these</td>
</tr>
<tr>
<td>5-15. Edible-podded legume vegetables</td>
<td>Bean (Phaseolus) and/or hybrids of these</td>
</tr>
<tr>
<td>6-09. Fruiting Vegetable Group</td>
<td>Tomato (standard size) and one or more of these</td>
</tr>
<tr>
<td>6-09A. Tomato subgroup</td>
<td>Tomato (standard size) and one or more of these</td>
</tr>
<tr>
<td>6-09B. Pepper/Eggplant subgroup</td>
<td>Bell pepper and one or more of these</td>
</tr>
<tr>
<td>6-09C. Nightshade/ Eggplant subgroup</td>
<td>One or more of these</td>
</tr>
<tr>
<td>9. Cucurbit Vegetables</td>
<td>Cucumber, melon and summer squash</td>
</tr>
<tr>
<td>9A. Melon subgroup</td>
<td>Cantaloupe</td>
</tr>
<tr>
<td>9B. Squash/Cucumber subgroup</td>
<td>Chayote (fruit), Chinese wax gourd, cucumber, gherkin, gourd, edible, Momordica spp, pumpkin, squash, summer squash</td>
</tr>
</tbody>
</table>

### Commodities

- **Vegetables (Vegetable Group)**: Broccoli, cauliflower, cucumber, eggplant, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, pepper, 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corteva.ca