

2023



EXTENSION AND ADVISORY TEAM

# SPRAY GUIDE FOR TURNIP & RUTABAGA

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Nova Scotia Vegetable Crop Spray Guide 2023  
[TUR1-23]



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**Nova Scotia Vegetable Crop Spray Guide 2023**  
[TUR1-23]

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## LIABILITY STATEMENT

Recommendations in this guide are given for general information only and do not give the user the right to use a product in a manner not in accordance with the pesticide label or Pest Control Products Act. Perennia, by funding and printing this publication, and the editors/authors, do not offer any warranty or guarantee and do not assume any liability for crop loss, animal loss, health, safety, or environmental hazard caused by the use of any pesticide, advice, or recommendation in this schedule. Pesticides used in this schedule are products labeled for the target and crop. This information was retrieved from the Pest Management Regulatory online of Registered Products Database. The list of products presented in this schedule is intended to be complete, based on products known to be available in the region, but in no way is guaranteed to be complete. Some of the products listed may not be available. Trade names are given as a convenience to producers and are neither an endorsement of the product nor a suggestion that similar products are not available or effective.

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## PESTICIDE EMERGENCY CONTACT INFORMATION

Poison Control Centres		
Nova Scotia	800.565.8161 or 902.470.8161	IWK, Halifax, NS
New Brunswick	911	Ask for Poison Information
Prince Edward Island	800.565.8161 or 902.470.8161	IWK, Halifax, NS
Newfoundland	709.722.1110	Dr. Charles A. Janeway Child Health Care Centre, St. John's, NF

Environmental Emergencies (Pesticide Spills)	
Transport Canada Regional Operations Centre (24 hours)	
Nova Scotia	800.565.1633
New Brunswick	800.565.1633
Prince Edward Island	800.565.1633
Newfoundland	800.563.9089

## ABBREVIATIONS & CONVERSIONS

Formulation and Measurement Abbreviations			
FORMULATIONS		MEASUREMENTS	
DF	Dry flowable	mL	millilitre
EC, E	Emulsifiable concentrate	kPa	kilopascal
L	Liquid	kg	kilogram
Sn / Su	Suspension	g	gram
WP/W	Wettable powder	L	litre
		BIU	Billions of International Units
		ppm	parts per million (1000 ppb)
		ppb	parts per billion (1/1000 ppm)

Helpful Conversions <sup>1</sup>	
kPa X 0.14 = pounds per square inch (psi)	millilitres X 0.035 = fluid ounces
hectares X 2.47 = acres	litres X 35 = fluid ounces
kilograms X 2.2 = pounds	litres X 0.22 = imperial gallons
kilograms per hectare X 0.89 = pounds per acre	litres per hectare X 14.17 = fluid ounces per acre
kilograms per hectare X 0.40 = kilograms per acre	litres per hectare X 0.40 = litres per acre
	degree-days C X 1.8 = degree-days F

### <sup>1</sup> Pesticide Units of Measurement

It is not recommended to convert label rates to imperial units because there is a high probability of mathematical and rounding errors. Present day pesticides are formulated to be more effective in smaller amounts. Therefore, even small conversion errors can lead to the use of incorrect rates (either too high or too low). Use metric – you will be glad you did!

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>WEEDS:</b>							
<b>Preplant</b>  <i>Perennial weeds including quackgrass</i>	9	glyphosate	<b>Roundup WeatherMAX</b>	1.67-8.0 L/ha	12 hours	7	Apply in the fall or spring prior to planting. Annual weed control programs will be necessary to control weeds germinating after planting. For quackgrass control, apply it to actively growing quackgrass when at least 4 new leaves are present. The lower rates will provide a minimum of one season control, while higher rates will provide longer term control. The low rate of Roundup should be applied in 50 to 100 L/ha water. If higher water volumes are used add a suitable surfactant. Wait 72 hours before plowing under. Best control of quackgrass is obtained when these herbicides are applied in the fall.
	14	carfentrazone-ethyl	<b>Aim EC</b>	36.5-117 mL/ha	12 hours	1	Apply in minimum spray volume of 100 L/ha. Refer to label for target weeds, buffer zones and rates. Use high flow rate nozzles to apply the highest spray volume.
<b>Preplant Incorporated</b>  <i>Germinating annual grasses and some broadleaves</i>	3	trifluralin	<b>Treflan EC</b>	1.7-2.3 L/ha	12 hours	-	Incorporate within 24 hours of application. Ragweed and mustard are not controlled. This product has a carryover effect on corn and cereal the following year.
			<b>Rival</b>	1.6-2.2 kg/ha	12 hours	-	
	15	napropamide	<b>Devrinol 50 DF</b>	2.2-4.4 kg/ha	12 hours	60	Apply in 200-900 L water/ha. Only 1 application per season. Incorporate within 24 hours of application. Do not apply to soils with over 10% organic matter.
		s-metholachlor	<b>Dual II Magnum or Komodo</b>	1.25-1.75 L/ha	12 hours	-	Apply PPI or PRE.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>Preemergence</b> <i>Stale Seedbed Technique</i>	22	diquat	<b>Dessicash</b>	2.3-4.6 L/ha	24 hours	-	Apply in 300 – 1100 L of water/ha to foliage of emerged weeds but before the crop has emerged. Do not apply later than 3 days before crop emergence.
	26	Pelargonic acid	<b>Beloukha</b>	12 – 20 L/ha	Until dry	1	Apply either before or after seeding but at least 3 days prior to crop emergence. Use the minimum effective rate for weed control. Harder-to-control weeds require higher rates and/or repeat applications.
<b>Postemergence</b> <i>Grasses</i>	1	fluazifop-p-butyl	<b>Venture L</b>	2.0 L/ha	12 hours	45	Apply to actively growing grasses at the 2-5 leaf stage. One application /season.
		sethoxydim	<b>Poast Ultra plus Merge</b>	0.32-1.1 L/ha 1-2 L/ha	12 hours	77	Apply to actively growing grasses at the 1-6 leaf stage.
		clethodim	<b>Shadow®RTM™ or Centurion® + Amigo</b>	0.19 - 0.38 L/ha + 0.5 – 1.0% v/v	12 hours	30	Rutabaga Only. Apply a maximum of two applications per year. If repeat application is required, allow at least 14 days between first and second application. Apply in a minimum spray volume of 110 L/ha.
<b>Postemergence</b> <i>Broadleaf Weeds</i>	4	clopyralid	<b>Lontrel 360</b>	Rutabaga 0.56 L/ha  Turnip 0.42-0.56 L/ha	12 hours	Rutabaga: 83 Turnip roots: 30 Turnip greens: 15	Max 1 application/yr. Apply when ragweed is 5-10 cm tall. Apply in approximately 200-300 L/ha of water.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>Postemergence Broadleaf Weeds</b> <i>(cont.)</i>	4	Clopyralid	<b>Pyralid</b>	0.672 L/ha in 200 to 300 L/ha of water	12 hours	83	For control of <b>common ragweed in rutabaga</b> . Apply with a boom sprayer. Apply as a post emergent spray when ragweed plants are 5 to 10 cm tall. Application to larger ragweed plants will result in reduced weed control. Make only one application per season.
<b>Postemergence Grasses and broadleaves</b>	-	Acetic Acid	<b>Serene</b>  <b>NEW 2023</b>	179-219.5 L/ha	When residue is dry	-	Apply as a uniform band or spot application directed at weeds on the ground between the crops. Use hooded or shielded application equipment. Do not spray the crop directly. Do not apply it when plants are under stress. Retreatment is required for regrowth of weeds.
<b>Postemergence Inter-row shielded</b>	14	carfentrazone-ethyl	<b>Aim EC</b>	36.5-117 mL/ha	12 hours	1	Apply in minimum spray volume of 100 L/ha. Refer to label for target weeds, buffer zones and rates. Use high flow rate nozzles to apply the highest spray volume.
	22	diquat	<b>Reglone, Dessicash</b>	2.3-4.6 L/ha	24 hours	-	Do not spray solution on the crop plant since it could be injured or killed.
	26	Pelargonic acid	<b>Beloukha</b>	12 – 20 L/ha	Until dry	1	Use a directed or shielded sprayer to avoid damage to crops. Do not make more than 4 applications per season. Make subsequent applications on a 7–14-day interval, when weed pressure warrants re-application.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>INSECTS:</b>							
<b>Cabbage Root Maggot</b> <i>Treatment at Planting</i>	1B	Chlorpyrifos <b>FINAL USE 2023</b>	<b>Lorsban 15 G</b>	0.6-1 kg/ 1000 m of row	24 hours	30	<b>Rutabaga only.</b> Max. 1 application per season. Apply as an in-furrow, at-plant treatment.
	28	Cyantraniliprole	<b>Verimark</b>	10-15 mL/100m row	12 hours	21	In-furrow application: Apply as a narrow band in-furrow. For the best results, direct spray on the seed pieces in the furrow. Thorough coverage of seed pieces is important to obtain optimum control.
<i>Treatment after Planting</i>	1B	Chlorpyrifos <b>FINAL USE 2023</b>	<b>Lorsban 4 E</b>	210 ml/ 1000m of row in 125 L of water	24 hours	30	Apply on soil, 10 cm on either side of the plant, 10, 28, 49 and 70 days after seeding. Max. 4 applications/yr. <b>Rutabaga only.</b>
			<b>Warhawk 480 EC</b>				
<b>Cutworms</b>	1B	Chlorpyrifos <b>FINAL USE 2023</b>	<b>Lorsban 4E</b>	1.2-2.4 L/ha	24 hours	30	Apply once at seedling stage when damage first appears. Apply a 15 m strip into adjacent fence rows. <b>Rutabaga only.</b>
			<b>Warhawk 480 EC</b>				Soil treatment: Apply once, 3-7 days before transplanting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. Seedling treatment: Apply once as a broadcast spray at the 2- to 5-leaf stage of the crop. <b>Rutabaga only.</b>
	28	Chlorantraniliprole	<b>Coragen</b>	250-375 mL/ha	12 hours	1	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Max. 4 applications per season.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
Leaf Feeding Caterpillars	1	Carbaryl	Sevin XLR	2.5-5.25 L/ha	12 hours	7	Spray in sufficient water for full coverage. Use the lower rate on young plants. Apply when insects or damage appear.
	5	spinosad	Success 480 SC	182 ml/ha	When dry	3	Max 3 applications/yr. Allow 7-10 days between applications
			Entrust 80 W	109 g/ha	When dry	3	Max 3 applications/yr. Allow 7-10 days between applications. Works best on small larvae.
		spinetoram	Delegate WG	140-200 g/ha	12 hours	3	Time application with peak egg hatch or small larvae. Repeat applications based on population monitoring. Use higher rate for higher infestations or advanced growth stages. Max. 3 applications/year with a minimum re-treatment interval of 7 days.
	11	<i>Bacillus thuringiensis</i> , subsp. <i>aizawai</i> , (Strain ABTS-1857 fermentation solids, spores, and insecticidal toxins)	XenTari WG	500-1000 g/ha	4 hours	0	Apply sufficient spray volume to ensure uniform deposition on all plant surfaces; recommend 500 L per ha.
28	Chlorantraniliprole	Coragen	250 mL/ha	12 hours	1	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Max. 4 applications per season.	
Flea Beetle	1A	carbaryl	Sevin XLR Plus	1.25-2.5 L/ha	5 days (high contact activities), 12 hours (general).	7	Repeat on 7–10-day intervals or as necessary. Max. 2 applications per year.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
Flea Beetle <i>(cont.)</i>	3	cypermethrin	<b>Mako</b>	123 ml/ha	12 hours	21	Apply as insects appear, repeat, as necessary.
			<b>UP-Cyde</b>	200 ml/ha	12 hours	21	Apply as insects appear, repeat, as necessary. Roots and tops may be fed to lactating dairy animals after PHI.
		permethrin	<b>Pounce 384 EC</b>	180 ml/ha	When dry	1	<b>Turnip only.</b> Apply between the 2-8 leaf stage, but no later than the 8-leaf stage. Max. 3 applications per year.
	5	Spinetoram	<b>Delegate WG</b>	200 g/ha	12 hours	3	<b>Suppression Only.</b> Apply when pests appear. Maximum of three applications per year with a minimum re-treatment interval of 7 days.
		Spinosad	<b>Entrust</b>	364 ml/ha	When dry	3	For the suppression of flea beetle, apply at the emergence of adults and reapply in 7–10-day intervals as necessary.
	28	Cyantraniliprole	<b>Exirel</b>	500-1000 mL/ha	12 hours	7	Begin applications when treatment thresholds have been reached. Thorough coverage is important to obtain optimum control. Max. 4 applications per season.
			<b>Verimark</b>	10-15 mL/100m row	12 hours	21	In-furrow application: Apply as a narrow band in-furrow. For the best results, direct spray on the seed pieces in the furrow. Thorough coverage of seed pieces is important to obtain optimum control.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
Aphids	4	Thiamethoxam	<b>Actara 25 WG</b>	105 g/ha	12 hours	7	<b>Also controls Aster leafhoppers.</b> Apply before pests reach damaging levels. Scout fields and treat again if populations rebuild to potentially damaging levels. Max. 2 applications/season. Application interval: 7 days. Apply in sufficient water volume to ensure adequate coverage. Do not use less than 100 L/ha.
	4C	Sulfoxaflor	<b>Closer SC</b>	50-150 ml/ha	12 hours	7	Max. 2 applications per growing season. Do not apply during crop flowering period or when flowering weeds are present in the treatment area. Minimum treatment interval = 7 days. Minimum 100 L/ha spray volume for ground application.
	4D	Flupyradifurone	<b>BYI 02960 200SL</b>	500 – 750 mL/ha	12 hours	7	Apply as a directed foliar spray ensuring thorough coverage. Tops or greens from these crops may not be fed to livestock as feed or used for human consumption. Minimum interval between applications = 10 days. Minimum 100 L/ha spray volume (Ground). The maximum amount allowed per season is 2000 mL/ha.
	29	Fonicamid	<b>Beleaf 50SG</b>	0.12-0.16 kg/ha	12 hours	3	Thorough spray coverage of plant foliage is essential. Minimum of 94 L water/ha. Max. 3 applications per season, allow 7 days between applications. <b>Avoid overnight storage of spray mixtures, do not use liquid fertilizer as a carrier and do not use adjuvants.</b>

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>Aphids</b> <i>(cont.)</i>	NC	Mineral oil	<b>Purespray Green Spray Oil 13E</b>	10 L in 550-1100 L of water/ha.	12 hours	21	Thorough coverage is essential. Application should be made at 2500 kPa with hollow cone nozzles. Spray at one-week intervals beginning in mid-June or at the first appearance of aphids in the local area. Application may be required for up to 10 weeks of aphid activity. <b>CAUTION:</b> Do not apply in direct sunlight. Spray rutabagas early in the morning or in the evening. Allow at least 24 hours to elapse after the application before applying other insecticide sprays. Do not apply in more concentrate solutions than recommended as crop injury may occur.
	NC	Mineral oil	<b>SuffOil-X<sup>®</sup></b>	13 L in 100L of H2)	12 hours	0	Deters feeding. Begin application when pests appear. Apply at 7-14-day intervals. Do not apply more than 8 applications per year.
<b>Swede midge</b>	4	Acetamiprid	<b>Assail 70 WP Aceta 70 WP</b>	86 g/ha	12 hours	7	Begin application when insect populations reach recognized economic threshold levels. Do not make more than 5 applications per season. Do not apply more than once every 7 days.
<b>Carrot weevil</b>	28	Cyantraniliprole	<b>Exirel</b>	1000-1500 ml/ha	12 hours	1	Begin applications at the 2-3 leaf stage or when scouting indicates the presence of weevils. Do not make more than 4 applications per season. Do not apply more than once every 7 days.
<b>Tarnished Plant Bug</b>	29	Flonicamid	<b>Beleaf<sup>®</sup> 50SG</b>  <b>NEW 2023</b>	0.20 (3 applications) or 0.30 (2 applications)	12 hours	3	Apply when Tarnished Plant Bugs first appear in the field and before populations reach high levels. Apply a minimum of 94 liters of water per hectare. Allow a minimum of 7 days between applications. Do not apply more than 3 applications per year.
<b>Spider Mites</b>	NC	Mineral oil	<b>SuffOil-X<sup>®</sup></b>	13 L in 100L of H2)	12 hours	0	Suppression only. Begin application when pests appear. Apply at 7-14-day intervals. Do not apply more than 8 applications per year.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>DISEASES:</b>							
Rhizoctonia root rot, Crown rot and Stem canker	11	azoxystrobin	Quadris	4-6 ml/ 100m of row in 50-100 L water/ha	12 hours	40	Max. 1 application/yr. Apply either in-furrow at seeding or as a banded application over the row soon after emergence, or within 30 days of emergence.
			Azoshy 250 SC				
Powdery Mildew	3	propiconazole	Tilt 250 E	400 ml/ha	12 hours	21	Make two applications per season with the first application 50 days after planting and the 2nd application 20 days later. Apply to vegetative foliage. Use 200 L of water per hectare.
			Mission 418 EC / Bumper	240 ml/ha			
			Propi Super 25EC	400 ml/ha			
	7	Penthiopyrad	Fontelis	1-1.75 L/ha	12 hours	0	Begin applications prior to disease development and continue a 7-14-day interval. Use higher rate and shorter intervals when disease pressure is high. Make no more than 2 sequential applications before switching to a product with a different mode of action.
	7, 3	Pydiflumetofen, Difenconazole	A20259	1.0 L/ha	12 hours	7	Apply on a 7-14-day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. Switch to a non-group 7 and 3 fungicides after 2 applications.
7, 11	Fluopyram, trifloxystrobin	Luna Sensation	300-400 mL/ha	12 hours	7	Begin fungicide applications preventatively. Continue as needed on a 7-14-day interval. When disease pressure is severe, use the higher rates. Do not make more than 2 sequential applications before switching to a product not in groups 7 or 11.	

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>Powdery Mildew</b> <i>(cont.)</i>	7, 11	Pyraclostrobin, Fluxapyroxad	<b>Merivon</b>	0.3 – 0.4 L/ha	12 hours	7	Begin applications prior to onset of disease development. Apply subsequent applications on a 7–14-day interval if disease persists or weather conditions are favourable for disease development. Use the shorter interval and/or the higher rate, where applicable, when disease pressure is high. Max. 3 applications per year.
	11	pyraclostrobin	<b>Cabrio EG</b>	560-840 g/ha	3 days (hand harvesting) 12 hours (general)	3	Max. 3 applications/yr. Do not make more than 2 applications in a row before rotating to another chemical.
	M1	sulfur	<b>Microscopic Sulfur</b>	6.8 kg/ha	24 hours	0	Max. 5 applications/yr. Apply in 675-1125 L of water/ha.
<b>Downy Mildew</b>	11	Fenamidone	<b>Reason 500 SC</b>	400-600 mL/ha	2 days	2	<b>For turnip greens only.</b> Begin applications as soon as crop and/or environmental conditions become favourable for disease development. Applications should be made on a 5–10-day interval depending upon disease conditions. Apply on the shorter application interval and/or switch to the higher rate under conditions favourable to high disease pressure. Max. 2 applications/year.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
Downy Mildew (cont.)	43	fluopicolide	Presidio	220-292 ml/ha	12 hours	7	Apply in 200-1000 L/ha. For resistance management, Presidio must be tank-mixed with a labeled rate of another fungicide registered for the target pathogen, but with a different mode of action. Apply Presidio in a tank mix with Bravo 500. Follow the most restrictive use directions of either label. Make foliar applications on a 7-10-day schedule beginning with initial flowering, or when disease conditions are favourable, but prior to disease development. Use the lower rate and longer interval as preventive applications. Use the higher rate and shorter interval if disease is present.
	P07	fosetyl AL	Aliette	2.25-3.125 kg/ha	12 hours	7	Max. 5 applications per year, repeated at 7-day intervals as needed.
	BM02	<i>Bacillus subtilis</i>	Serenade Opti	1.4 Kg/ha	4 hours	0	<b>Biopesticide that will only suppress the indicated diseases. Downy Mildew:</b> Begin application when environmental conditions are conducive to disease development; repeat on 7–10-day intervals.
White mould ( <i>Sclerotinia sclerotiorum</i> )	7	Penthiopyrad	Fontelis™	1.25 to 1.75 L/ha	12 hours	0	Begin application prior to disease development and continue at a 7- to 14-day interval. The maximum seasonal use rate is 4.5 L/ha. Make no more than 2 sequential applications of Fontelis fungicide before switching to a fungicide with a different mode of action.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>White mould (<i>Sclerotinia sclerotiorum</i>)</b> (cont.)	7, 3	Pydiflumetofen, Difenconazole	<b>A20259</b>	1.0 L/ha	12 hours	7	<b>Suppression.</b> Apply on a 7-14-day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. Switch to a non-group 7 and 3 fungicides after 2 applications. Maximum amount of product per season is 4.0 L/ha
	7, 11	Fluopyram, trifloxystrobin	<b>Luna Sensation</b>	500 mL/ha	12 hours	7	Apply at the critical timings for disease control. Continue as needed on a 7-14-day interval. Do not make more than 2 sequential applications before rotating to a product from a group other than 7 or 11.
	9, 12	Cyprodinil, fludioxinil	<b>Switch 62.5 WDG</b>	775-975 g/ha	12 hours	7	Begin applications prior to or at the onset of disease and repeat applications on a 7–10-day interval if conditions remain favorable for disease development. Do not make more than 2 applications per season.
	BM02	<i>Bacillus subtilis</i>	<b>Serenade Opti</b>	1.1-2.2 Kg/ha	4 hours	0	<b>Serenade Opti is a biopesticide that will only suppress the indicated diseases.</b> Begin application soon after emergence and when conditions are conducive to disease development. Repeat as necessary on a 7–10-day interval.
<b>Gray Mold</b>	7	Penthiopyrad	<b>Fontelis</b>	1.0-1.75 L/ha	12 hours	0	<b>Begin applications prior to disease development, continue a 7–14-day interval.</b> Use higher rate and shorter intervals when disease pressure is high. Max seasonal rate is 4.5 L/ha. Do not make more than 2 sequential applications before switching to another mode of action.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-harvest Interval (days)	Remarks
<b>Gray Mold</b> <i>(cont.)</i>	9, 12	Cyprodinil, fludioxinil	<b>Switch 62.5 WDG</b>	775-975 g/ha	12 hours	7	Begin applications prior to or at the onset of disease and repeat applications on a 7–10-day interval if conditions remain favorable for disease development. Do not make more than 2 applications per season.
<b>Leaf blight</b> <i>(Alternaria spp.)</i>	7, 3	Pydiflumetofen, Difenconazole	<b>A20259</b>	1.0 L/ha	12 hours	7	Apply on a 7 - 14-day interval, starting prior to disease establishment. If disease pressure is high, use the shortest interval. Apply as a broadcast spray in sufficient water (minimum of 150 L/ha) for thorough coverage. Switch to a non-group 7 and 3 fungicides after 2 applications.
	7, 11	Pyraclostrobin, Fluxapyroxad	<b>Merivon</b>	0.3 – 0.4 L/ha	12 hours	7	Begin applications prior to onset of disease development. Apply subsequent applications on a 7-14-day interval if disease persists or weather conditions are favourable for disease development. Use the shorter interval and/or the higher rate, where applicable, when disease pressure is high. Max. 3 applications per year.
	11	Trifloxystrobin	<b>Flint</b>	140-210 g/ha	12 hours	7	Begin applications preventatively and continue as needed on a 14-day interval. Use the higher rate and shorter spray interval when disease pressure is severe. Use sufficient water to obtain thorough coverage. DO NOT apply more than 840 g of FLINT per hectare per season.

Use the following web link to search for any pesticide label mentioned in this guide, or any other pesticide registered in Canada: <http://pr-rp.hc-sc.gc.ca/lr-re/index-eng.php>