

2023



EXTENSION AND ADVISORY TEAM

SPRAY GUIDE FOR SWEET CORN

Nova Scotia Vegetable Crop Spray Guide 2023
[COR1-23]



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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 ¹	
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

¹ 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
WEEDS:							
Pre-plant <i>Perennial weeds including quackgrass</i>	9	Glyphosate	Roundup Transorb	2.5-7.0L/ha	12 hours	-	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 low rate (2.5 L/ha) will provide a minimum of one season control, while higher rates (>2.5 L/ha) 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.
			Touchdown Total	1.8-5.0 L/ha			
Pre-plant Incorporated <i>Annual grasses</i>	15	S-Metolachlor	Dual II Magnum or Komodo	1.25-1.75 L/ha	12 hours	45	Can be applied either (i) pre-plant incorporated – immediate incorporation not necessary (ii) pre-emergence – requires rainfall or irrigation within 7 days. Apply high rate on heavy soils or on heavy weed infestations. Can be tank mixed with atrazine for better broadleaf weed control. Refer to label. Corn should be at spike to 2 leaf stage. Annual grasses at maximum of 2 leaf stage. Do not use oil or surfactants.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Preplant Incorporated/Pre or Postemergence <i>Primarily annual broadleaf weeds</i>	5	Atrazine	Aatrex Liquid 480	2.1-3.1 L/ha	-	45	Can be applied (i) pre-plant incorporated, (ii) pre-emergence, or (iii) post emergence with a suitable surfactant. Carryover is more likely to occur on light soils, in dry years and from late or post emergence applications. Aatrex liquid is often used in combination with grass herbicide. Read label for uses & rates.
	27	Mesotrione	Callisto or Mester 480 SC	0.3 L/ha	12 hours	50	Apply in a spray volume of 200 L/ha.
		Topramezone	Impact + Merge or Assist + UAN 28%	37 ml/ha 0.5% v/v 1.25% v/v 1.25% v/v	12 hours	45 (Impact)	Should be tank mixed with atrazine or glyphosate. Corn varieties that are not designated as glyphosate tolerant will be damaged by tank mix with glyphosate. See label
Pre-emergence <i>Annual and broadleaf weeds</i>	14	Carfentrazone-ethyl	Aim® EC NEW 2023	36.5-117 mL/ha	12 hours	?	Maximum annual rate of 234 mL/ha. Maximum 2 applications per year including post-harvest application.
	5, 15	S-metolachlor & Atrazine	Primextra II Magnum	3-4 L/ha	12 hours	45	Rain is required within 10 days of application, or shallow cultivation is necessary.
	15, 27	Bicyclopyrone, Mesotrione, S-metolachlor (and R-enantiomer)	Acuron Flexi	3.7 L/ha	12 hours, 12 days for hand-setting irrigation equipment	45	Controls broadleaf and grass annual weeds. To be used as a pre-emergent treatment only. Apply in a minimum of 150 L of carrier (UAN or water) per hectare. Ground application only. Dry conditions post application may reduce pre-emergent activity.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Post-emergence <i>Including triazine resistant strains, primarily broadleaf control</i>	6	Bentazon	Basagran plus Assist	1.75-2.25 L/ha 1-2 L/ha	12 hours	-	Post emergence only when corn is at 1 to 5 leaf stage. Reduce Assist to 1 L/ha under hot, humid conditions. Control is best when broadleaf weeds are small and actively growing. A split application will control some broadleaf perennials like Canada thistle. Does not control weeds germinating after application.
		Bromoxynil	Pardner	1.0-1.2 L/ha	24 hours, 20 days hand harvest, 5 days handset irrigation	20	Post emergence is only for control of broadleaf weeds, including triazine resistant biotypes. Apply in 200-300 L of water per hectare. Apply when weeds are in 1 to 4 leaf stage and corn is at the 4 to 8 leaf stage. Severe leaf burn may occasionally occur; however, yields have not been affected. Do not add oil or surfactant.
		Pyridate	Tough 600 EC	0.75-1.5 L/ha	7 days (handset / hand line irrigation) 3 days (scouting) 12 hours (other)	45	Tough 600 EC Herbicide has not been tested on all sweet corn varieties for tolerance. Contact your seed supplier for specific recommendations. Applications should be made after the weeds have emerged and prior to reaching 10-15 cm in height. Corn is tolerant to Tough 600 EC Herbicide up to the 8th leaf stage. Can be used as a post-emergence contact herbicide and prior to emergence as a pre-seed or pre-emergent herbicide. Do not apply more than 2 times per season with a 10–14-day re-application interval. Do not apply more than 1.5 L/ha per season.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Post-emergence <i>Including triazine resistant strains, primarily broadleaf control (cont.)</i>	6, 5	Bromoxynil + Atrazine	Pardner + Aatrex 480	1.0 L/ha + 3.1 L/ha	24 hours	-	Apply when the crop is at the 4-8 leaf stage. Make one application per year. Temporary crop injury in the form of scorching may occur in adverse weather conditions (cool and wet or hot and humid). Do not add oil or surfactant or use atrazine formulations containing oil.
	27	Topramezone	Impact plus Merge	37 ml/ha plus 0.5% v/v	12 hours	45	Varieties may vary in their tolerance to Impact. Apply when corn is at the 1-7 leaf stage, broadleaf weeds are at the 1-8 leaf stage and grass weeds are at the 1-4 leaf stage. Broadleaf weeds and suppression of some grasses.
		Tolpyralate	Tolpyralate 400 SC Or Shieldex 400SC	75 – 100 mL/ha	12 hours	35	Broadleaf and grass weeds. May applied as a broadcast spray on corn up to 50 cm tall or is exhibiting 6 leaf collars (V6). Best results are obtained when weeds and corn are small. Target applications to corn that is less than 30cm tall for improved coverage.
Post-emergence Grasses	2	Nicosulfuron	Nicosh	33.4 g/ha	12 hours	40	See label for varieties. Apply at the 1-6 leaf stage of target grasses (1-8 corn leaf stage). Make only one application per year.
			Accent™IS NEW 2023	45.8 g/ha	12 hours	30	Apply when there are 1-6 leaves (4 visible collars). Make only one application per growing season. 140-190 L of water per hectare (minimum of 100 L of water per hectare).
Post-emergence Annual broadleaves and annual grasses	27	tembotrione	Laudis NEW 2023	145-220 mL/ha	12 hours	45	Max. one application at the 2-leaf stage up to and including the 8-leaf stage. Apply a minimum of 100 L of water per hectare.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Post-harvest	14	Carfentrazone-ethyl	Aim® EC NEW 2023	36.5-117 mL/ha	12 hours	-	Maximum annual rate of 234 mL/ha. Maximum 2 applications per year including post-harvest application.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
INSECTS:							
Seed Corn Maggot, Wireworm	3	Tefluthrin	Force 3.0 G	37.5 g/100 m of row	12 hours	56	Apply in furrow at planting.
	28	Tetraniliprole	Reatis 480 FS	42 mL/80,000 Kernels	-	-	For use in commercial seed treatment equipment only. Not for use in hopper box, planter box, slurry box, or other on-farm seed treatment applications. This product contains no colourant. An appropriate colourant must be added when this product is applied. Do not make a subsequent foliar application of any Group 28 insecticide for a minimum of 60 days after planting treated seed.
		Cyantraniliprole	Fortenza® Red	167 mL /100 kg seed	-	-	Suppression only for seed corn maggot. For use in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. Do not apply any subsequent application of a Group 28 Insecticide.
	30	Broflanilide	Cimegra	250 mL/ha <u>For 76 cm (30") row spacing:</u> 1.9 mL/100m of row	-	-	Wireworm. Apply it at planting as an in-furrow or T-band spray by directing spray pattern to uniformly cover seed and surrounding soil. In-furrow: Apply through spray nozzles or microtubes into the open seed furrow, between the planter furrow openers and press wheels. T-band: Apply in a 10 to 20 cm (4 to 8 inch) band over the top of the open seed furrow, between planter furrow openers and press wheels. DO NOT T-band over the top of a closed furrow. See label for calculation on unique row spacing.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Corn Earworm and Fall Armyworm	1A	Methomyl	Lannate	430-625 g/ha	12 hours	3	Corn earworm. Application to begin when 25% of the ears show silk. Direct sprays to the silks. Do not apply after August 15 th . 1 application per year.
	3	Cypermethrin	Mako	175 ml/ha	12 hours	5	Corn earworm. spray directly to ensure good coverage of ears and silks. Use 300-500 L water per hectare. Max. 3 applications/year.
		Deltamethrin	Decis 5.0 EC	250-300 ml/ha	12 hours	5	Corn earworm. Apply when insects are present in the silks. Do not apply more than two times per year.
			Poleci 2.5 EC	500-600 ml/ha			
		Lambda -cyhalothrin	Matador 120 EC Or Labamba	83-208 ml/ha	24 hours	1	Armyworms. Max. of 3 applications. Spray no later than when first feeding damage is seen on foliage.
			Warrior	83-205 ml/ha			
		Permethrin	Pounce 384 EC	275-375 ml/ha (Corn Earworm) 180 ml/ha (Fall Armyworm)	8 days (hand detasselling, hand harvest) 12 hours (general)	8 (hand harvest) 1 (mechanical harvest)	For control of corn earworms, direct the spray to ensure coverage of ears and silks. Max. 4 applications per year.
	15	Novaluron	Rimon 10 EC	820 ml/ha	9 days (for detasseling and hand harvesting)	9 (hand harvesting) 1 (machine harvest)	Corn earworm. Apply prior to peak egg laying at silking. Reapply at 7-day intervals as long as monitoring indicates moths and fresh silks are present. Max. 5 applications per season. Apply in 90-570 L of water /ha.
	28	Chlorantraniliprole	Coragen	250-375 ml/ha	12 hours	1	Use the high rate under heavy pest pressure. Do not make more than 4 applications per season. Do not apply more than once every three days. Time applications with peak egg hatch for corn earworm.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Corn Earworm and Fall Armyworm (cont.)	28	Tetraniliprole	Vayego 200 SC	150 mL/ha	12 hours	1	For corn earworm time the application to coincide with peak egg hatch. Apply as a directed foliar spray to ensure thorough coverage. Do not apply more than 4 times per season. Ensure at least 7 days between applications. Toxic to bees, apply up to V15 or after pollen shed.
European Corn Borer	1A	Methomyl	Lannate	625 g/ha	12 hours	3	Application to begin when egg masses begin to hatch, but no later than when the first feeding damage is seen on leaves. Sprays should be directed into the whorl of the plant. After tassels appear, direct spray at the ear zone. In areas where the second-generation borers may be a problem, late plantings should be treated before tassels are visible. Latest timing of application is early silk stage.
	3	Cypermethrin	Mako	175 mL/ha	12 hours	5	Apply when egg masses begin to hatch but no later than when first feeding is seen on foliage. For second brood borers in late planting, apply before tassels show. Max 3 applications/season.
			UP-Cyde	280 ml/ha	12 hours	5	Apply in 325–450 L of water/ha. Spray no later than when the first feeding is seen on foliage. Repeat on 4–7-day intervals depending on the area and corn borer numbers. When there are 2 generations, late plantings of sweet corn will require sprays from whorl stage until near harvest. Max 3 applications per season.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
European Corn Borer (cont.)	3	Cypermethrin	Ship 250 EC NEW 2023	280 mL/ha in 20-45 L of water/ha	Hand harvesting, 5 days Other wise 12 hours	5	Spray no later than when the first feeding is seen on foliage. Repeat sprays at 7-day intervals depending on the area and corn borer numbers. Toxic to bees. Avoid application during the crop blooming period.
		Deltamethrin	Poleci 2.5 EC	500-600 ml/ha	12 hours	5	Apply in at least 240 L water/ha. Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray into the whorl of the plant. For control of second generation, direct spray at ear zone.
		Lambda -cyhalothrin	Matador 120 EC, Labamba or Warrior	83-187 ml/ha	24 hours	1	Maximum of 3 applications at the low rate. Spray at egg hatch, no later than when first feeding damage is seen on foliage.
	5	Spinetoram	Delegate	120-210 g/ha	12 hours	1	Applications should be timed at egg hatch or to small larvae. Use the higher rate for heavy infestations and for large larvae. Repeat applications based on monitoring of insect populations. Apply a maximum of 3 applications per year with a minimum of 5 days between applications.
		Spinosad	Success 480 SC	83 ml/ha	7 days (detasselling or hand harvesting) When dry (other activities)	7	Apply in 1000 L water/ha. Maximum of 2 applications per year. Apply only on small larvae and low populations.
			Entrust 80	50 g/ha			
			Entrust	167 ml/ha			
	11	<i>Bacillus thuringiensis</i>	Dipel 2X DF	0.56-1.12 Kg/ha	4 hours	0	Apply when pinhole feeding is observed on 5% of the plants. Maximum of 6 applications per year.
			Bioprotec CAF	2.8-4.0 L/ha	-	0	Apply it at hatch. Max. 6 applications per year.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
European Corn Borer (cont.)	18	Methoxyfenozide	Intrepid	0.3 – 0.6 L/ha	12 hours	3	Apply at the first signs of feeding damage before the insect enters the fruit. Monitoring insect populations is key to controlling this pest. Direct application at the whorl for early season (first generation) infestations. Repeat applications after 5-10 days if required based on population monitoring. Use the higher rate for heavy infestations, or larger crop canopies.
	28	Chlorantraniliprole	Coragen	250-375 ml/ha	12 hours	1	Use the high rate under heavy pest pressure. Max. 4 applications/season. Apply no more than once every three days. Time applications with peak egg hatch.
		Tetraniliprole	Vayego 200 SC	150 mL/ha	12 hours	1	Time the application to coincide with peak egg hatch. Apply as a directed foliar spray ensuring thorough coverage. Do not apply more than 4 times per season. Ensure at least 7 days between applications. Toxic to bees, apply up to V15 or after pollen shed.
Cutworms	1B	Chlorpyrifos	Warhawk 480SC FINAL USE 2023	1.2-2.4 L/ha	24 hours	70	Black cutworm, dark sided cutworm, red backed cutworm. SOIL TREATMENT (PREPLANTING): Apply 2.4 litres in 200-400 L/ha. Apply once as a soil treatment 3-7 days before planting. Do not incorporate. Also apply to a 15 m strip into adjacent fence rows. SEEDLING TREATMENT: Apply 1.2-2.4 litres in 200-400 L/ha. Apply once as a broadcast spray at the 2- to 5-leaf stage of the crop. Max. one application per season.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Cutworms (cont.)	3	Deltamethrin	Decis 5 EC	250-300 ml/ha	12 hours	5	Western Bean Cutworm. Do not apply more than 2 times/year. Application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Repeat at 5–8-day intervals. Apply in 240 L water/ha.
			Poleci 2.5 EC	500-600 ml/ha			
		Lambda – cyhalothrin	Matador 120 EC, Labamba Or Warrior	83 ml/ha	24 hours	1	Maximum of 3 applications. Spray no later than when first feeding damage is seen on foliage. Applications should be made under moist conditions in the evening or night when cutworm activity is highest. Do not disturb the soil surface for 5 days after treatment.
	5	Spinetoram	Delegate	120-210 g/ha	12 hours	1	Western Bean Cutworm. Applications should be timed at egg hatch or to small larvae. Use higher rate for heavy infestations and for large larvae. Repeat applications based on monitoring of insect populations. Apply a maximum of 3 applications per year with a minimum of 5 days between applications.
	18	Methoxyfenozide	Intrepid	0.6 L/ha	12 hours	3	Western Bean Cutworm. Applications should be timed at egg hatch or to small larvae. Repeat applications based on monitoring of insect populations. Maximum of 3 applications per year.
	28	Cloranthraniliprol	Coragen	250-375 mL/ha	12 hours	1	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
Cutworms (cont.)	28	Tetraniliprole	Vayego 200 SC	150 mL/ha	12 hours	1	Begin applications when treatment thresholds have been reached. Apply as a directed foliar spray to ensure thorough coverage. Do not apply more than 4 times per season. Ensure at least 7 days between applications. Toxic to bees, apply up to V15 or after pollen shed.
Aphids	4	Acetamiprid	Assail 70 WP Aceta 70 WP	56-86 g/ha	10 days	10	Maximum 2 applications per season. Do not repeat applications more than once every 21 days. Do not detassel treated corn by hand. Adequate spray coverage is required.
	23	spirotetramat	Movento 240 SC	220-365 ml/ha	12 hours	7	Apply after pollen shed. Apply when aphids are first noticed. Minimum interval between applications: 7 days. Apply in a minimum spray volume of 200 L/ha. Maximum allowed per crop season: 1.1 L/ha.
	28	Tetraniliprole	Vayego 200 SC	150 mL/ha	12 hours	1	Suppression. Begin applications when treatment thresholds have been reached. Apply as a directed foliar spray to ensure thorough coverage. Do not apply more than 4 times per season. Ensure at least 7 days between applications. Toxic to bees, apply up to V15 or after pollen shed.
	NC	Potassium salts of fatty acids	Kopa Insecticidal Soap	8L in 40L water, applied at 700-1900 L/ha solution	-	0	Do not spray when plants are under stress. Avoid spraying during full sun. Spray early in morning or evening or when overcast.
Slugs	NC	Ferric phosphate	Sluggo	12-50 Kg/ha	-	0	Use high rates on severe infestations.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Brown Marmorated Stink Bug	1A	Methomyl	Lannate	625 g/ha	12 hours	3	Suppression. Apply when insects first appear. Continue applications at 5–7-day intervals if monitoring indicates the need. Do not apply after August 15 th .
Grasshoppers	28	Cloranthraniliprole	Coragen® MaX NEW 2023	42-83 mL/ha	12 hours	1	Do not apply more than once every 3 days. Do not make more than 4 applications per year.
Corn Rootworm Northern and western	4	Thiamethoxam	Cruiser® 5FS	830 mL/100 kg seed	-	-	Seed treatment. Do not apply less than 1.25 mg of active ingredient per kernel for seed planted in Canada.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
DISEASES:							
Rust	3	Propiconazole	Tilt 250 E Propi Super 25EC	500 mL/ha	1 day	14	Apply when rust first appears and 14 days later if necessary.
	3, 7, 11	Pydiflumetofen, azoxystrobin, propiconazole	Miravis Neo 300SE A21461	0.75-1 L/ha	12 hours	14	Make the first application at the first sign of disease. A second application can be made 14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement.
	11	Azoxystrobin	Quadris Flowable Azoshy 250EC	453 mL/ha in 200 L/ha of water	12 hours	7	Maximum 2 applications per year. Begin application before disease establishment and then at 7–14-day intervals.
		Pyraclostrobin	Headline EC	0.4-0.6 L/ha	12 hours	7	Max. 2 applications per year on a 7-14-day interval. Apply in a minimum of 100 L/ha.
	11, 3	Azoxystrobin, propiconazole	Quilt	0.75-1 L/ha	1 day (hand detasselling) 12 hours (general)	14	Make the first application at the first sign of disease, followed by a second application 14 days after the first if environmental conditions are favorable for disease development. Good spray coverage and canopy penetration are important for best results.
		Mefentrifluconazole, Pyraclostrobin	Veltyma NEW 2023	0.5 L/ha	12 hours	21	Begin applications prior to disease development. Apply a second time 10-14 days later if disease persists or weather conditions are favorable for disease development. Max 1.0 L/ha a year.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Rust (cont.)	M5	Chlorothalonil	Bravo ZN	3.2 L/ha	1 day (scouting), 18 days (hand harvesting), 14 days (mechanical harvesting)	14	Maximum of 2 applications per year. Apply when symptoms first appear and then again 10 to 14 days later.
			Echo 90WSP	1.8 kg/ha			
			Echo 720	2.2 L/ha			
Northern and Southern Corn Leaf Blight <i>Helminthosporium</i> Leaf Spot Eye Spot Tar spot Grey Leaf Spot	3	Propiconazole	Tilt 250 E	250-500 mL/ha	1 day	14	Apply when disease first appears. For Eye Spot and Grey Leaf Spot use the higher rate.
		Propiconazole	Propi Super 25EC	250-500 mL/ha	1 day	14	Make the first application at the first sign of disease, followed by a second application 14 days after the first if environmental conditions are favorable for disease development.
	11	Picoxystrobin	Acapela™ NEW 2023	0.8 L/ha	12 hours	7	Suppression of Tar Spot. Begin applications prior to disease development and continue a 7- to 14-day interval. Use higher rate and shorter intervals when disease pressure is high. Make no more than 2 sequential applications of Acapela fungicide before switching to a fungicide with a different mode of action registered for the same use.
	3 & 7 & 11	Pydiflumetofen, azoxystrobin, propiconazole	Miravis Neo 300SE	0.75-1 L/ha	12 hours	14	Make the first application at the first sign of disease. A second application can be made 14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Northern and Southern Corn Leaf Blight <i>Helminthosporium</i> Leaf Spot Eye Spot Tar spot Grey Leaf Spot <i>(cont.)</i>	3 & 7 & 11	Pydiflumetofen, azoxystrobin, propiconazole	A21461	1 L/ha	12 hours	14	Suppression of tar spots. Make the first application at the first sign of disease. A second application can be made 14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement. a minimum spray volume of 200 L/ha.
	11 & 3	Azoxystrobin, propiconazole	Quilt	0.75-1 L/ha	1 day (hand detasselling) 12 hours (other)	14	Make first application at the first sign of disease, followed by a second application 14 days after the first if environmental conditions are favorable for disease development. Good spray coverage and canopy penetration are important for best results.
		Mefentrifluconazole, Pyraclostrobin	Veltyma NEW 2023	0.5 L/ha	12 hours	21	Begin applications prior to disease development. Apply a second time 10-14 days later if disease persists or weather conditions are favorable for disease development. Max 1.0 L/ha a year.
Seed rot and damping-off caused by soil-borne <i>Fusarium</i> spp.	7	Pydiflumetofen	Saltro NEW 2023	10 - 50 mL product/100 kg seed	-	-	Seed treatment. This product contains no colourant. An appropriate colourant must be added when this product is applied. Use a closed-cab tractor when planting soybean and corn seeds. Gloves are not required within the closed cab.
Corn Lesion Nematode	7	Pydiflumetofen	Saltro NEW 2023	320 – 400 mL product/100 kg seed	-	-	Seed treatment. This product contains no colourant. An appropriate colourant must be added when this product is applied. Use a closed-cab tractor when planting soybean and corn seeds. Gloves are not required within the closed cab.

Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre-Harvest Interval (days)	Remarks
Root Knot nematode	-	cis-Jasmone, Bacillus amyloliquefaciens, strain MBI 600	Trunemco™ <i>NEW 2023</i>	20 mL product/100 kg seed	-	-	Seed Treatment. May be applied with suitable commercial seed treating equipment. Trunemco should be slowly added to sufficient water and colourant for good seed coverage and mixed until uniform.

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>