

EXTENSION AND ADVISORY TEAM

SPRAY GUIDE FOR PEAS

Nova Scotia Vegetable Crop Spray Guide 2023 [PEA1-23]









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LIABILITY STATEMENT

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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							
FORMULA	TIONS	MEASURE	EMENTS				
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

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!

¹ Pesticide Units of Measurement



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
WEEDS:							
Preplant Perennial weeds including quackgrass	9 glyphosate	glyphosate	Roundup WeatherMAX	1.67-4.67 L/ha 1.8-5.0 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 low rate (1.67 L/ha) will provide a minimum of one season control, while higher rates (1.67-4.67 L/ha) will
		T	Total				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. Allow 3 or more days after treatment before tillage. Best control of quackgrass is obtained when these herbicides are applied in the fall.
	14	carfentrazone-ethyl	Aim EC	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.
	26	Pelargonic acid	Beloukha	12 – 20 L/ha	Until dry	1	For weed control in annual crops, apply BELOUKHA AGRICULTURAL HERBICIDE as a burndown for seedbed preparation. Use the minimum effective rate for weed control. For harder-to-control weeds, higher rates or repeat applications may be required.





Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Preplant Incorporated	2	imazethapyr	Pursuit	0.312 L/ha	12 hours	50	Some rotational crop restrictions. Apply only to processing or snow peas. Can be applied PPI or PRE.
Germinating annual grasses and	3	trifluralin	Treflan EC	1.2-1.7 L/ha	12 hours	-	Do not exceed 1.2 L/ha in medium textured soils and 1.7 L/ha in heavy textured soils.
some broadleaves			Rival	1.2-1.6 L/ha	12 hours	-	Incorporate within 8 hours of application. Ragweed and mustard are not controlled. There is a carry-over effect on corn/cereal the next year. Use high rate in heavy soils.
	15	Pyroxasulfone	Zidua SC NEW 2023	120 – 240 mL/ha	12 hours	-	Field Pea . For the fall application, make one application only. In the following spring, a preplant or preemergent application of a registered herbicide is to be applied.
Preemergence Germinating annual grasses and	5	prometryn	Gesagard 480 SC	3.75-4.58 L/ha	12 hours	55	Pre-emergence to crop and weeds. Will not control triazine resistant weeds. If soil is dry and rain is not expected, light incorporation by harrowing will improve control.
some broadleaves	6	Pyridate	Tough 600 EC	0.75-1.5 L/ha	Harvesting: at Maturity All other activities:12 hours		Dry Peas. Use prior to crop emergence to control weeds that have emerged. Do not apply more than 2 applications per season with a 10–14-day re-application interval. Do not apply more than 1.5 L/ha per season

SPRAY GUIDE FOR PEAS



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Preemergence Germinating annual grasses and some broadleaves (cont.)	14	Fomesafen	Reflex	1.0 L/ha	12 hours	Dry peas: 77 days Succulent peas: 46 days	Apply after planting but prior to crop emergence. Spray volume: minimum 200 L/ha. Dry Shelled Peas: If target weeds have emerged, Reflex must be used with a non-ionic adjuvant or TurboCharge. For a non-ionic adjuvant use AGRAL 90 or Citowett at 0.1% v/v of spray solution. Succulent Peas: If target weeds have emerged, Reflex must be used with a non-ionic adjuvant or TurboCharge at 0.25 %v/v. For a non-ionic adjuvant use AGRAL 90 or Citowett at 0.1% v/v of spray solution.
		Trifludimoxazin	Vulcarus + Merge	50 – 75 mL/ha 0.5 % v/v	12 hours		Dried Field Peas. Apply as a pre-seed or pre- emergent (to crop) application. Can be tank- mixed with glyphosate for additional weed control, see label for specifics.
		Flumioxazin	Flumioxazin 51 WDG	140 g/ha	12 hours	5	Minimum water volume = 100 L/ha. The length of residual control is dependent on the application rate as well as on rainfall and temperature conditions. Length of residual control will decrease as temperature and precipitation increase and on soils of high organic matter and/or high clay content. Apply only once during a single growing season.
	14, 15	Flumioxazin, Pyroxasulfone	Fierce EZ Master	440 mL/ha	12 hours		Field Peas. Apply Fierce EZ Master Herbicide with ground equipment prior to planting or within 3 days after planting and prior to emergence. Application after the field peas have begun to crack, or are emerged, will result in severe crop injury.
	15	s-metolachlor	Dual II Magnum or Komodo	1.25-1.75 L/ha	12 hours	-	One application per year. Apply in 150-250 L of water/ ha.

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^{*}Red text indicates label changes and products that are new to this guide in 2023.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Postemergence	26	Pelargonic acid	Beloukha	12 – 20 L/ha	Until dry	1	After crop emergence, use a directed or shielded sprayer to avoid damage to crop. Use the minimum effective rate for weed control. For harder-to-control weeds, higher rates or repeat applications may be required.
Postemergence Grasses	1	fenoxyprop-p-ethyl	Excel Super	0.67 L/ha	12 hours	75	Apply when annual grasses are at the 1-6 leaf stage. DO NOT apply herbicides other than BASAGRAN within 4 days.1 hour rain fastness.
		sethoxydim	Poast Ultra plus Merge	0.32-1.1 L/ha 1-2 L/ha	12 hours	30 (fresh processing) 60 (dry peas)	Apply to actively growing grasses at the 1-6 leaf stage. Do not apply on fresh edible pod peas. Apply high rate for quackgrass. 1 hour rain fastness.
Postemergence Broadleaf weeds	2	Imazamox	Davai 80 SL Plus Non-ionic surfactant NEW 2023	250 mL/ha 0.25-0.5 % v/v	12 hours	60	Control of volunteer canola in Field peas. The minimum water volume is 100L/ha. Field Peas: Apply from the 1 - 6 true leaf stage of field peas after weeds have emerged. Weeds: Apply when Volunteer canola is from the cotyledon to 4-leaf stage
	4	МСРВ/МСРА	Tropotox Plus 400	2.75-4.25 L/ha	12 hours	-	Apply when peas have 3-6 expanded leaves. Do not apply after 6 leaf stage, when temperature is above 27 C, high humidity, or drought conditions.
	6	bentazon	Basagran plus	1.75 L/ha 1-2L/ha	12 hours	30	Apply when peas have at least three pairs of leaves. Do not apply if rain is expected within 6 hours.
			Assist				





Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Post-Harvest Burndown	14	Carfentrazone-ethyl	Aim EC	234 mL/ha max per year	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. When using AIM® EC Herbicide alone, use a non-ionic surfactant at 0.25% v/v (0.25 litres per 100 litres of spray solution) or use Merge at 1% v/v (1 litre per 100 litres of spray solution). Max 2 applications per season.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
INSECTS:							
Seedcorn Maggot, Potato leafhopper, wireworm	4	thiamethoxam	Cruiser 5FS	50-83 ml/100 kg seed			Seed treatment for commercial seed treatment facilities only. Use high rate for wireworm and to replace one foliar application for potato leafhopper.
Aphids	1A	methomyl	Lannate	510 g/ha	12 hours	1	Apply when insects first appear. Apply the low rates on small plants, when insects are small in size and light infestations of insects. Early morning or late evening sprays are recommended. Max. 1 application per year.
	1B	malathion	Malathion 85E	1100 ml/ha	1 day	3	Apply in sufficient water volume to ensure adequate plant coverage.
		dimethoate	Lagon 480 EC	275-380 ml/ha	12 hours	3	Max 2 applications/year. Use a spray volume of 100-300 L of water/ha.
	3	Lambda-cyhalothrin	Matador 120 EC or Labamba	83-233 ml/ha	24 hours	7 Succulent shelled and edible pod peas	May also control Lygus bug. Max 3 applications/yr.
			Warrior	83 ml/ha	24 hours	succulent shelled peas and edible pod peas	Make no more than 3 applications per season. Apply when the presence of vulnerable pest developmental stages and significant populations occur. Apply in 100-200 L of water / ha.
	4	acetamiprid	Assail 70 WP Aceta 70 WP	56-86 g/ha	12 hours	7	Apply in a minimum finished spray volume of 200 L/ha. Do not apply more than 3 times per season. Do not apply more than once every 7 days. Do not use on crops after a soil, n furrow or seed treatment application of a group 4 insecticide.

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Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Aphids (cont.)	4D	Flupyradifurone	BYI 02960 200SL	500 – 750 mL/ha	12 hours	7	Apply as a directed foliar spray ensuring thorough coverage. Minimum interval between applications: 10 days. Minimum application volumes: 100 L/ha (Ground). Maximum BYI 02960 200SL Insecticide allowed per crop season: 2000 mL/ha.
	28	Cyantraniliprole	Exirel	750-1500 mL/ha	12 hours	1	For optimum control of aphids apply Hasten NT Spray Adjuvant* at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech* at an application rate of 0.5% v/v.
	29	Flonicamid	Beleaf 50SG	0.12-0.16 kg/ha	12 hours	7	Apply before aphid populations reach economic thresholds or as populations begin to increase but before damaging populations become established. Scout fields and reapply if necessary. Use higher rates for greater pest populations and/or dense foliage. Maximum 3 applications/season.
Cutworms	3	cyhalothrin-lambda	Matador 120 EC or Labamba	83 ml/ha	24 hours	7 days (succulent shelled and edible podded peas) 14 days (dry peas)	Make applications in the evening, as this is when cutworm activity is greatest.
		permethrin	Pounce	180-390 ml/ha	12 hours	-	Apply up to 5 leaf stage. Do not disturb soil for 5 days after treatment.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Western Bean Cutworm	3	lambda-cyhalothrin	Matador 120 EC or Labamba	83-187 ml/ha	24 hours	7	Repeat sprays at 4–7-day intervals. Do not use more than 3 applications per season.
			Warrior		24 hours	14	
	3, 28	Lambda- cyhalothrin, chlorantraniliprole	Voliam Xpress	500 mL/ha	24 hours	7	Apply no later than when the first feeding is seen on foliage. Reapply after 7 days depending on the presence of significant populations as determined by local monitoring. Max. 3 applications per season.
	18	Methoxyfenozide	Intrepid	0.6 L/ha	12 hours	7	Applications should be timed at egg hatch or to small larvae. Repeat applications based on monitoring of insect populations. Apply a maximum of 3 applications per year.
Slugs	-	Ferric phosphate	Sluggo	12-50 kg/ha	0 hours	0	Use broadcast or granular spreader to apply evenly around or over the plants to be protected. At the seedling and later stages, apply the bait between the rows and around the perimeter of the field
Brown Marmorated Stink Bug	1A	methomyl	Lannate	510 g/ha	12 hours	1	Suppression. Apply when insects first appear. Max. 1 application per year.
European corn borer & Cabbage looper	18	Methoxyfenozide	Intrepid	0.3 – 0.6 L/ha	12 hours	7	Apply at the first signs of feeding damage before the insect enters the pods. Repeat after 7-14 days if required based on monitoring. Use the higher rate for heavy infestations or advanced growth stages of the target pest.
Lygus Bugs (Tarnished Plant Bug)	29	Flonicamid	Beleaf 50SG	0.20 kg/ha	12 hours	7	Apply when lygus bugs first appear in the field and before populations reach high levels. Will stop lygus bug feeding rapidly but it may take several days to see a reduction in lygus bug numbers. Reapply when new insects are detected. Max. 3 applications per year.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
DISEASES:							
Angular leaf spot	11	pyraclostrobin	Headline EC	0.4 L/ha	12 hours	7	Apply at the beginning of flowering OR at the onset of symptoms. If disease persists or weather conditions are favourable for disease development, apply a second time 10-14 days later with a fungicide that contains a different mode of action.
Sclerotinia	4, 7, 12	Sedaxane, Metalaxyl-M and S- isomer, Fludioxonil	Vibrance Maxx RFC NEW 2023	100 mL / 100 kg seed	-	-	Apply as a seed treatment.
	7	boscalid	Lance WDG	560-770 g/ha	12 hours	7	Begin applications prior to disease development or at the beginning of flowering and repeat on a 5-14-day interval if conditions are conducive for disease development. Use the higher rate and shorter interval when disease pressure is high. Max. 2 applications per season.
	11	Picoxystrobin	Acapela	0.88 L/ha	12 hours	0	Suppression only. Begin applications prior to disease development. DO NOT use an adjuvant or surfactant with this crop use pattern. Make no more than 1 application before switching to a fungicide with a different mode of action. Maximum seasonal use rate for succulent legumes is 1.75 L/ha



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Sclerotinia (cont.)	BM02	Bacillus subtilis	Serenade Opti	1.7-3.3 Kg/ha	4 hours	0	A biopesticide that will only suppress the indicated diseases. Make the first application at planting and prior to crop emergence. Make another application as a directed spray with multiple nozzles per seed line in sufficient water to ensure thorough coverage of lower plant leaves and surrounding soil surface within 7 days of thinning. Repeat on 7-14-day intervals if conditions for disease development persist.
Powdery Mildew	3	Propiconazole	Propi Super 25EC	500 ml/ha	12 hours	30 (dry) 15 (edible podded, succulent)	Make the first application at the R2 to R3 developmental stage, or when there is 5% disease level in the field, followed by a second application 14 days after the first if environmental conditions are favourable for disease development. Maximum 2 applications /season.
	7, 3, 11	Pydiflumetofen, Azoxystrobin, Propiconazole	Miravis Neo 300SE	1.0 L/ha	12 hours	30	Dried peas only. Apply at the first sign of disease. Do not apply beyond full bloom stage, 50% of flowers open.
			A23089 NEW 2023	1.0 L/ha	12 hours	30	Dried peas only. Max 2 applications a year. Make the first application at the R1 to R3 developmental stage, or when there is 5% disease level in the field. 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. Min spray volume is 100L/ha.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Powdery Mildew (cont.)	11	azoxystrobin	Quadris	500 ml/ha	12 hours	15	Make the first application at the R1 to R3 developmental stage, or when there is 5% disease level in the field, followed by a second application 14 days after the first if
			Azoshy 250SC				environmental conditions are favorable for disease development. Max. 2 applications per season.
	М	sulfur	Kumulus DF	1.5 kg/ha	24 hours	1	Apply at first appearance of disease and repeat at 7–10-day intervals as required.
	M1	Copper	Cueva	0.5% to 2% solution, applied at 470-940 L/ha	4 hours	1	Re-apply using 5–10-day intervals.
Asian Soybean Rust	3	Propiconazole	Propi Super 25EC	500-756 ml/ha	12 hours	30 (dry) 15 (edible podded)	Make the first application at the R2 to R3 developmental stage, or when there is 5% disease level in the field, followed by a second 14 days later if environmental conditions are favourable for disease development. Max 2 applications/season.
	3, 11	propiconazole + azoxystrobin	Quilt	1-1.5 L/ha	12 hours	30 (dry) 15 (edible podded, succulent)	Do not exceed 2 applications per year. Apply at first sign of disease and then repeat after 14 days. Apply with a minimum of 45 L/ha



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Asian Soybean Rust (cont.)	7	penthiopyrad	Fontelis	1-1.75 L/ha	12 hours	0	Begin applications prior to disease development, continue a 7–14-day interval. Use higher rate and shorter intervals when disease pressure is high. Max seasonal rate is 5.25 L/ha. Do not make more than 2 sequential applications before switching to another mode of action.
	7, 3, 11	Pydiflumetofen, Azoxystrobin, Propiconazole	Miravis Neo 300SE	1.0 – 1.25 L/ha	12 hours	30	Dry peas only . Apply at the first sign of disease. Do not apply beyond full bloom stage, 50% of flowers open.
	11	azoxystrobin	Quadris	500 ml/ha	12 hours	15	Make the first application at the R1 to R3 developmental stage, or when there is 5% disease level in the field, followed by a second application 14 days after the first if
			Azoshy 250SC				environmental conditions are favourable for disease development. Do not exceed 2 applications per year.
Botrytis	7	penthiopyrad	Fontelis	1.0-2.25 L/ha	12 hours	0	Begin applications prior to disease development, continue a 7–14-day interval. Use higher rate and shorter intervals when disease pressure is high. Max seasonal rate is 5.25 L/ha. Do not make more than 2 sequential applications before switching to another mode of action.
	BM02	Bacillus subtilis	Serenade Opti	1.7-3.3 Kg/ha	4 hours	0	A biopesticide that will only suppress the indicated diseases. Begin applications at the first sign of disease, or when conditions become conducive for disease development. Repeat as necessary on a 7–10-day interval.



Pest	Group	Active Ingredient	Pesticide Product Name	Rate	Restricted Entry Interval (REI)	Pre- harvest Interval (days)	Remarks
Seedling blight	4, 7, 12	Sedaxane, Metalaxyl-M and S- isomer, Fludioxonil	Vibrance Maxx RFC NEW 2023	100 mL / 100 kg seed	-	-	Apply as a seed treatment.
Alternaria Blight	7	penthiopyrad	Fontelis	1.0-2.25 L/ha	12 hours	0	Begin applications prior to disease development; continue a 7–14-day interval. Use higher rate and shorter intervals when disease pressure is high. Max seasonal rate is 5.25 L/ha. Do not make more than 2 sequential applications before switching to another mode of action.
Ascochyta blight (Mycospharella- pinodes)	3, 7	Boscalid, Prothioconazole	Cotegra	0.7 L/ha	24 hours	21	Dry Peas . Apply at the beginning of flowering or at the onset of disease symptoms (first sign of disease). Apply a second time 7-14 days later if disease persists, or weather conditions are favourable for disease development. Use the shorter interval when disease pressure is high to obtain extended protection and maximum yield benefit.
	7, 3	Pydiflumetofen Difenoconazole	A20259 Fungicide	1.0 L/ha	12 hours	30	Dry Peas. The first application must be applied before disease is established and no later than the onset of flowering. A second application
	7, 3, 11	Pydiflumetofen Azoxystrobin Propiconazole	A21461 Fungicide	1.0 L/ha	12 hours	30	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
Ascochyta blight (Mycospharella- pinodes) (cont.)	11		Azoshy 250SC	500 ml/ha	12 hours	15	Dry Peas. The first application must be applied before disease is established and no later than the onset of flowering. A second application can be made 10-14 days after the first, when disease pressure is severe or when agronomic or weather conditions are conducive to disease development or movement.
	M1	Copper	Cueva	0.5% to 2% solution, applied at 470-940 L/ha	4 hours	1	Re-apply using 5–10-day intervals.
	M5	Chlorothalonil	Echo 90WSP	1.1-1.7 kg/ha	12 hours (general) 24 hours	32	Dry peas: Make the first application beginning
			Echo 720	1.4-2.1 L/ha			at early flowering and the second application at early pod set, approximately 10 days later. Apply the higher rate when conditions favor disease development. Make the third application 10-14 days after the second during pod fill if conditions remain favorable for disease. DO NOT exceed 2 applications per season. DO NOT feed treated hay to livestock. DO NOT allow grazing of treated fields.
			Bravo ZN	2.0-3.0 L/ha	(scouting)		
Pea Downy Mildew (Peronospora viciae)	U15	Oxathiapiprolin	Zorvec Enicade	0.175-0.35 L/ha	12 hours	0	Succulent peas. Begin applications prior to disease development and continue a 7-14- day interval. Use higher rate and shorter interval when disease pressure is high.
Seed rot/pre- emergence damping-off and post-emergence damping-off	4, 7, 12	Sedaxane, Metalaxyl-M and S- isomer, Fludioxonil	Vibrance Maxx RFC NEW 2023	100 mL / 100 kg seed	-	-	Apply as a seed treatment.

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/ls-re/index-eng.php