

PERENNIA'S NEW ONLINE PEST MANAGEMENT GUIDE TOOL

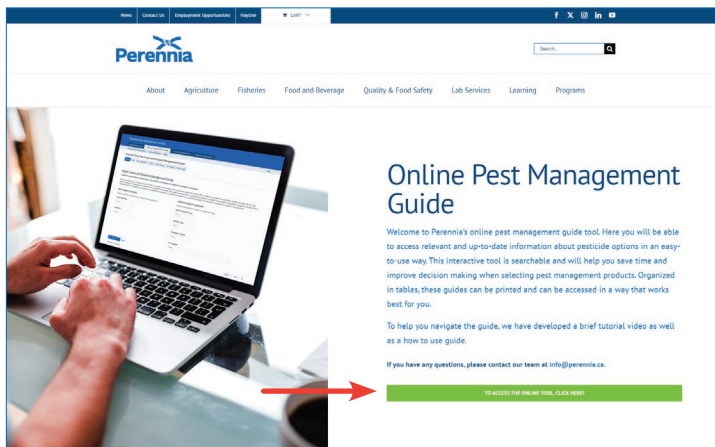
HOW TO GUIDE

Perennia's new online pest management guide

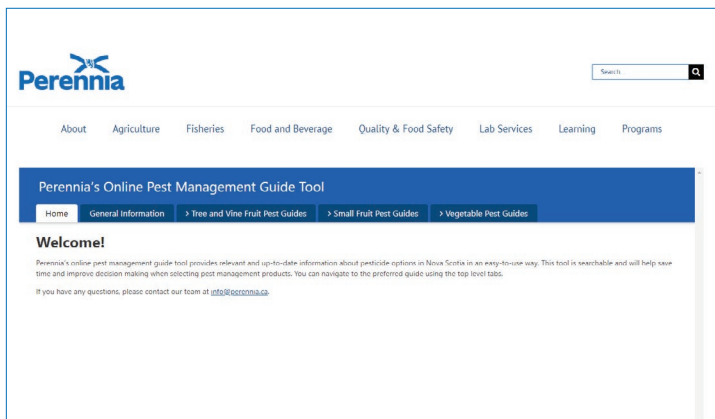
Welcome to Perennia's new online pest management guide tool! With this interactive, online tool, you will be able to access relevant and up-to-date information about pesticide options in an easy-to-use way.

To access the online tool, you can visit www.perennia.ca/onlinepestmanagementguide. Here we are happy to welcome you to the new online tool.

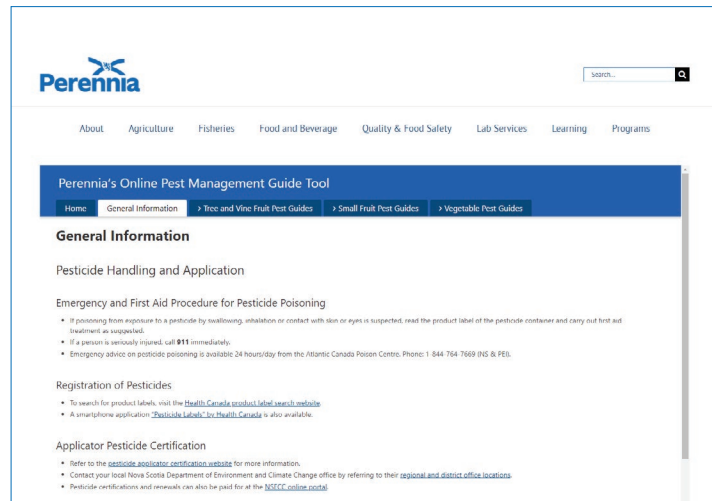
To access a direct link to the online tool, please click on the green button.



Once you click on the green button, you will arrive at the online tool. If you are a frequent user of the tool, we suggest you bookmark this page for easy access in the future. The URL for the direct link is www.perennia.ca/pest-guides/.



To navigate through the pest guide, you can use the top-level menu. If you click on 'General Information' you will find information about pesticide handling and application as well as safety information.

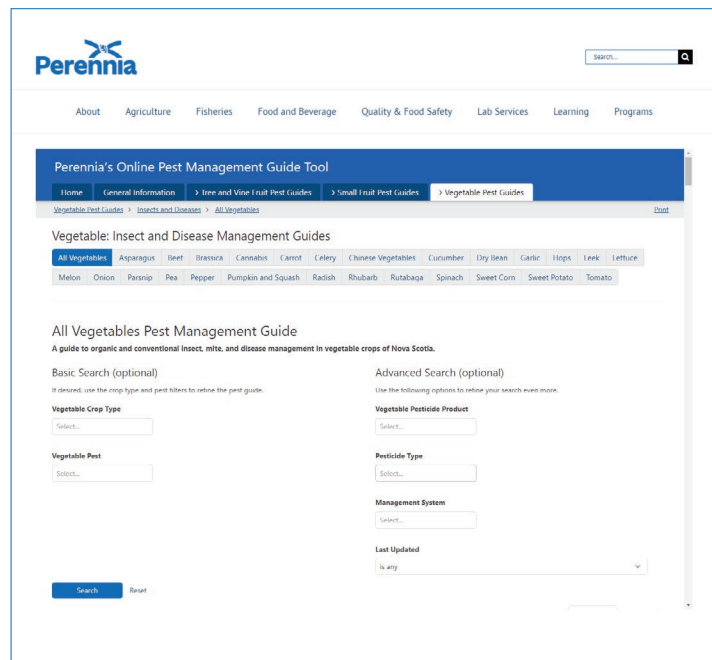


There are three categories in the top-level menu that you can choose from, including 'Tree and Vine Fruit Pest Guides,' 'Small Fruit Pest Guides' and 'Vegetable Pest Guides.'

For the purpose of this how-to guide, we will use the Vegetable Pest Guide as an example.

If you click on 'Vegetable Pest Guides' from the top-level menu, you will be redirected to that page. Here you have two options, you can select either 'Insects and Diseases' or 'Weeds.'

If you select 'Insects and Diseases', you are redirected to a page that has a set of tabs at the top. The default is to see all vegetables, but you can also select a specific vegetable. The benefit of selecting all is you can see products that are registered across multiple vegetables.



You can scroll down the screen to the table to view all results that are displayed to start.

Pesticide Products	Active Ingredient	Group	App Method	Rate	Max Apps	App Interval	PHI	REI	Notes / Restrictions / Warnings	Details
Aceta 70 WP	acetamiprid	4	Spray	56-200 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type, consult the label for specifics.	view
Assail 70 WP	acetamiprid	4	Spray	56-200 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type, consult the label for specifics.	view
Close 340 SC	sulfoxalor	4C	Spray	100-150 mL/ha	2	7 d		12 h	For the suppression of asparagus aphids on asparagus ferns only. Use the maximum rate for high insect pressure and for longer residual control. Use in sufficient water to ensure thorough coverage usually 200 - 1000 L water/ha.	view
Kapa 47 SN	potassium salt of fatty acids	NC	Spray	8L / 400L water				0	Do not spray when plants are stressed. See label for crop tolerance information. Avoid spraying during full sun.	view
Lagon 480 E	dinethoate	1B	Spray	2.3 L/ha	2	7 d	N/A	12 h	Apply after crop has been harvested.	view

***Please note, this is just a snapshot of some of the information. The full list will be available on the online guide.**

Within the table, you can see that the categories include pesticide products, followed by active ingredient, group, application method, rate, maximum applications, application interval, pre-harvest interval, re-entry interval and some specific notes/restrictions and warnings.

There is also a details specific page. You can click on the 'eye' icon to view more information about that specific product.

Pesticide Products	Active Ingredient	Group	App Method	Rate	Max Apps	App Interval	PHI	REI	Notes / Restrictions / Warnings	Details
Aceta 70 WP	acetamiprid	4	Spray	56-200 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type, consult the label for specifics.	view
Assail 70 WP	acetamiprid	4	Spray	56-200 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type, consult the label for specifics.	view
Close 340 SC	sulfoxalor	4C	Spray	100-150 mL/ha	2	7 d		12 h	For the suppression of asparagus aphids on asparagus ferns only. Use the maximum rate for high insect pressure and for longer residual control. Use in sufficient water to ensure thorough coverage usually 200 - 1000 L water/ha.	view
Kapa 47 SN	potassium salt of fatty acids	NC	Spray	8L / 400L water				0	Do not spray when plants are stressed. See label for crop tolerance information. Avoid spraying during full sun.	view
Lagon 480 E	dinethoate	1B	Spray	2.3 L/ha	2	7 d	N/A	12 h	Apply after crop has been harvested.	view

Now that you've seen some of the information in the table, let's review the search function. If you navigate back to the top of the screen, you will see the search options.

In the basic search function, you can select the 'Vegetable Crop Type' as well as select 'Vegetable Pest.' You can put in your options and then press search to see your results.

All Vegetables Pest Management Guide
A guide to organic and conventional insect, mite, and disease management in vegetable crops of Nova Scotia.

Basic Search (optional)
If desired, use the crop type and pest filters to refine the pest guide.

Vegetable Crop Type
[CARROT] [PUMPKIN AND SQUASH]

Vegetable Pest
[Alternaria]

Advanced Search (optional)
Use the following options to refine your search even more.

Vegetable Pesticide Product
[Select...]

Pesticide Type
[Select...]

Management System
[Select...]

Last Updated
[is any]

[Search] [Reset]

Your results will appear in the table and will be narrowed down based on your entries. In this example, these are relevant to the crop types carrot and pumpkin and squash and the vegetable pest Alternaria only.

First you will see that carrot shows up.

Pesticide Products	Active Ingredient	Group	App Method	Rate	Max Apps	App Interval	PHI	REI	Notes / Restrictions / Warnings	Details	
A2059 SC	pydiflumetofen + difenoconazole	7,3	Spray	1 L/ha		7-14 d	7 d	12 hr	Begin applications prior to disease establishment. If conditions are conducive to high disease pressure use the shortest interval. Apply as a broadcast spray with sufficient water (minimum of 150L/ha) for thorough coverage. 2 applications, then switch to a non-Group 7 and 3 fungicide. Maximum of 43 L/ha per year.	view	
Brown 276 100 SC	chlorothalonil	M5	Spray	2.4-5.7 L/ha	7	7-10 d	7 d	12 hr	Start applications when disease threatens. Use sufficient water to obtain adequate coverage.	view	
Cabrio EG 20 WG	spirothralol	11	Spray	0.56-1.1 g/ha	3	7-14 d	3 d	12 hr	Begin applications prior to disease development. Maximum of 2 sequential applications.	view	
Centus 70 WDG	boscalid	7	Spray	315 g/ha	5		0	12 hr	Maximum of 2 sequential applications.	view	
Echo 770 SC	chlorothalonil	M5	Spray	1.7-2.7 L/ha	7	7-10 d	1 d	12 hr	Start applications when disease threatens. Use sufficient water to obtain adequate coverage.	view	
Echo 90 WSP	chlorothalonil	M5	Spray	13-18 g/ha	7	7-10 d	1 d	12 hr	Apply in sufficient water to obtain adequate coverage. Start applications when disease threatens and repeat as necessary to maintain control.	view	
Flex 50 WG	trifloxystrobin	11	Spray	140-210 g/ha				14 d	12 hr	Begin applications preventatively and continue as needed. Use the higher rate and shorter spray interval when disease pressure is severe. Use	view

And if you scroll down, you will see the results for pumpkin and squash.

Pesticide Products	Active Ingredient	Group	App Method	Rate	Max Apps	App Interval	PHI	REI	Notes / Restrictions / Warnings	Details
Aprovia 100 EC	benzovindiflupyr	7		500-750 mL/ha		7 d	1	12 h	Begin applications prior to disease development. If disease pressure is high, use the highest rate. For the best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage.	view
Aprovia Top EC	difenoconazole + benzovindiflupyr	3,7		701-957 mL/ha		7 d	1	12 h	Begin applications prior to disease development. If disease pressure is high, use the highest rate. For the best results, sufficient water volume must be used to provide thorough coverage. Apply as a broadcast foliar spray in a minimum of 150 L/ha of water for thorough coverage.	view
Cabrio EG 20 WSP	spirothralol	11		580-840 g/ha	4	7-14 d	3	12 h	Do not make more than 1 application before rotating to a different fungicide group.	view
Centus 70 WDG	boscalid	7		460 g/ha	4		0	12 h	Do not make more than 2 applications before rotating to a different fungicide group.	view
Covex 1.8 SN	copper octanoate	M2		0.5-2% solution		5-10 d	1	4 h	Apply solution at a rate of 470-940 L/ha.	view
Dithane Fungicide 75 WG	mancozeb	M3		3.25 kg/ha	3		14	12 h	Start applications when runners begin to form or at first sign of disease. repeat on weekly intervals.	view
Morcon Fungicide 75 DF	mancozeb	M3		1.1-3.25 kg/ha	3		14	12 h	Start applications when runners begin to form or at first sign of disease. repeat on weekly intervals.	view
Morcon SC	pyridofluprofen + fluoxypyrrol	7,11		0.3-0.4 L/ha	3	7-14 d	0	12 h	Begin applications prior to onset of disease development. Use the higher rate when applicable when disease pressure is high. Subsequent applications may be applied if disease persists, or weather conditions are favourable for disease development. DO NOT apply to cucurbit vegetables, or a tank mix with anything other than water. Rate may vary depending on pest type, consult label.	view

If you are interested in an advanced search, you can scroll back to the top and hit the reset button.

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A guide to organic and conventional insect, mite, and disease management in vegetable crops of Nova Scotia.

Basic Search (optional)
If desired, use the crop type and pest filters to refine the pest guide.

Vegetable Crop Type
[CARROT] [PUMPKIN AND SQUASH]

Vegetable Pest
[Alternaria]

Advanced Search (optional)
Use the following options to refine your search even more.

Vegetable Pesticide Product
[Select...]

Pesticide Type
[Select...]

Management System
[Select...]

Last Updated
[is any]

[Search] [Reset]

In the advanced search, you can search for vegetable pesticide products, the pesticide type, the management system as well as when the product was last updated.

Please note, that both the basic and advanced search functions are optional.

Once the search results are displayed, you can sort the tables by the categories at the top, just by clicking on one category.

Pesticide Products	Active Ingredient	Group	App Method	Rate	Max Apps	App Interval	PHI	REI	Notes / Restrictions / Warnings	Details
ASPARAGUS										
Asparagus aphid										
Aceta 70 WP	acetamiprid	4	Spray	56-280 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type; consult the label for specifics.	view
Assail 70 WP	acetamiprid	4	Spray	56-280 g/ha	2	10 d	1 d	12 h	Begin applications when treatment thresholds have been reached. Apply to new plantings and when plants are young. Use higher rates when the plants are larger and under heavy pest pressure. Rates may vary depending on pest type; consult the label for specifics.	view
Chlorer 740 SC	sulfoxalor	4C	Spray	100-150 ml/ha	2	7 d		17 h	For the suppression of asparagus aphid on asparagus ferns only. Use the maximum rate for high insect pressure and for longer residual control. Use in sufficient water to ensure thorough coverage usually 200-1000 L water/ha.	view
Kopp 47 SN	potassium salt of fatty acids	NC	Spray	8L / 400L water				0	Do not spray when plants are stressed. See label for crop tolerance information. Avoid spraying during full sun.	view
Lagon 480 E	dimethoate	1B	Spray	2.3 L/ha	2	7 d	N/A	12 h	Apply after crop has been harvested	view

All of the pages and tables are printable. If you navigate to the top of the page, you will see that there is a Print option so these can be printed for your use at any time.

We hope you find this new online tool helpful in making decisions about your pest management.

If you have any questions, please contact our team at info@perennia.ca.