

**VG16060 - Vegetable Agrichemical Pest Management Needs and Priorities – 7<sup>th</sup> Quarterly Industry Update**

**SUMMARY**

VG16060 is in its last year of the project and we would like to thank growers and agronomists who have contribute to this project, by taking the time to complete the online crop specific pest surveys and/or attend to regional crop specific workshops. Pests identified during industry consultation will guide the vegetable industry crop protection priorities. The Project Coordinator, Patrick Arratia, continues working to establish a database that identifies industry pest priorities and categorising them by crop and region.

**GROUND WORK**

Industry consultation: During this quarter, the VG16060 Project Coordinator has continued industry consultation and engagement with growers and agronomists across the vegetable growing regions in Australia. With the assistance of regional VegNET officers, crop specific meetings have taken place in Devonport TAS, Bundaberg QLD and Sydney Basin NSW, targeting smaller crops such as rhubarb, chilies, peas (sugar and snap peas), and root vegetables (other than carrots). To compliment the previously mentioned regional crop specific meetings, one-on-one grower and agronomist consultation was conducted in those regions where pest, disease and weed issues affecting targeted crops were discussed and recorded.

Aiding in the update of VG18004 - Vegetable Strategic Agrichemical Review Process (SARP) Report Updates: The VG16060 Project Coordinator has been working towards developing crop specific reports for Brassicas, Carrots, Sweet Corn, Brassica Leafy Vegetables, Leeks for the update of the SARP documents.

Most of the pests identified during VG16060 industry consultation are the same pests that were identified on 2014 SARP pest priorities lists, but for some priorities growers have ranked them differently, possibly because of climatic conditions, geographic location, agchem availability, seed varieties and grower practices during and prior to grower consultation. There are also some new pest priorities that were not identified during the 2014 SARP update.

Some of the high priorities identified by the VG16060 Project Coordinator were:

Crop	Pest Issue	2014 Priority	2019 Priority*
Brassicas	Bacterial soft rot ( <i>Pseudomonas spp.</i> , <i>Erwinia caratovora</i> )	HIGH	HIGH
	White blister ( <i>Albugo candida</i> )	HIGH	HIGH
	Club root ( <i>Plasmodiophora brassicae</i> )	MODERATE	HIGH
	Aphids ( <i>Brevicoryne brassicae</i> , <i>Myzus persicae</i> , <i>Lipaphis pseudobrassicae</i> )	HIGH	HIGH
	Diamondback moth ( <i>Plutella xylostella</i> )	HIGH	HIGH

	Brassica weeds	NA	HIGH
<b>Carrot</b>	Powdery mildew ( <i>Erysiphe heracleid</i> )	HIGH	MODERATE
	Sclerotinia rot ( <i>Sclerotinia sclerotiorum</i> , <i>Sclerotinia minor</i> )	HIGH	MODERATE
	Cavity spot / forking ( <i>Pythium sulcatium</i> , <i>Pythium violae</i> )	LOW	HIGH
	Redlegged earth mite ( <i>Halotydeus destructor</i> )	NA	MODERATE
	Resistant ryegrass (predominantly Group A)	HIGH	HIGH
	Nutgrass ( <i>Cyperus rotundus</i> )	NA	MODERATE
<b>Sweet Corn</b>	Turcicum leaf blight ( <i>Exserohilum turcicum</i> )	HIGH	HIGH
	Common rust ( <i>Puccinia sorghi</i> )	LOW	HIGH
	Armyworm ( <i>Spodoptera spp.</i> )	HIGH	HIGH
	Helicoverpa ( <i>Helicoverpa spp.</i> )	HIGH	HIGH
	Corn aphid ( <i>Rhopalosiphum maidis</i> )	MODERATE	HIGH
<b>Brassica Leafy Vegetables</b>	Downy mildew ( <i>Hyaloperonospora parasitica</i> )	HIGH	HIGH
	White blister ( <i>Albugo candida</i> )	HIGH	HIGH
	Diamondback moth ( <i>Plutella xylostella</i> )	HIGH	HIGH
	Helicoverpa ( <i>Helicoverpa spp.</i> )	HIGH	HIGH
<b>Leek</b>	Fusarium ( <i>Fusarium spp.</i> )	MODERATE	HIGH
	Onion thrips ( <i>Thrips tabaci</i> )	HIGH	HIGH
	Broadleaf weeds in general	NA	HIGH

\*Dominant ranking based on % grown by state.

2019 Crop Specific Pest Survey: As part of this project (VG16060), a 2019 Online Crop Specific Pest Survey has been developed by AUSVEG and Hort Innovation to capture the vegetable industry’s main pests, disease and weed issues. We are asking growers and agronomists to get involved and to please take the time (10 min/survey) to fill in these crop-specific pest surveys. Pest priorities identified will inform industry actions for crop protection needs, and aid in updating industry Strategic Agrichemical Review Process Reports (SARPs) to identify and pursue potential solutions to address these gaps.

LAST CHANCE!! 2019 Online Crop Specific Pest Surveys: Last lot of online surveys will be closing on the 28 of February 2020, therefore we encourage growers and agronomists to take the opportunity to utilise this platform to express pest issues of concern.

Link to online surveys: [www.ausveg.com.au/VG16060](http://www.ausveg.com.au/VG16060)

**2019 Online Crop Specific Pest Surveys closure dates:**

<u>Closed on the 26 July 2019</u>	<u>Closed on the 26 October 2019</u>	<u>Surveys close 28 February 2020</u>
<del>1. Brassica Leafy</del>	<del>1. Beetroot</del>	1. Artichoke
<del>2. Brassica Vegetables</del>	<del>2. Lettuce</del>	2. Chokos
<del>3. Carrot</del>	<del>3. Parsley</del>	3. Fennel
<del>4. Celery</del>	<del>4. Peppers (capsicum &amp; Chilli)</del>	4. Okra
<del>5. Cucumber</del>	<del>5. Peas</del>	5. Pumpkins
<del>6. Eggplant</del>	<del>6. Snow &amp; Sugar snap peas</del>	6. Rhubarb
<del>7. Green Beans</del>	<del>7. Silverbeet</del>	7. Squash
<del>8. Leek</del>	<del>8. Spinach</del>	8. Swede, turnips, Parsnips, Radish, Horseradish & Chicory
<del>9. Sweet Corn</del>	<del>9. Spring Onions &amp; Shallots</del>	9. Other Vegetables
	<del>10. Zucchini</del>	

**NEXT**

VG16060 industry consultation continues, the Project Coordinator will continue visiting vegetable growing regions, focusing on vegetable crops such as Artichoke, Chokos, Fennel, Okra, Pumpkins, Rhubarb, Squash, Swede, Turnips, Parsnips, Radish, Horseradish & Chicory.

If you are a grower or a consultant for any of the below crops and would like to give feedback regarding pest priorities, please contact Patrick at [patrick.arratia@ausveg.com.au](mailto:patrick.arratia@ausveg.com.au) or on 03 9882 0277 or contact your local VegNET officer for any further enquiries.

**Regional Workshop Schedule:**

Region/Venue	Date/Time	Crops
<u>Werribee VIC:</u> TBC	Mid November 2019	<ul style="list-style-type: none"> <li>• Artichoke</li> <li>• Fennel</li> </ul>
<u>Mornington VIC:</u> TBC	Late November 2019	<ul style="list-style-type: none"> <li>• Rhubarb</li> <li>• Parsley</li> </ul>
<u>Cranbourne VIC:</u> TBC	Early December 2019	<ul style="list-style-type: none"> <li>• Root vegetables other than carrots (radish, parsnip and turnip)</li> </ul>
<u>Swan Hill VIC:</u> TBC	Mid December 2019	<ul style="list-style-type: none"> <li>• Squash</li> <li>• Root vegetables other than carrots (radish, parsnip and turnip)</li> </ul>