



## Pest Management Centre

### Status Report for Biopesticide Projects from 2011 to 2019

As of: September 28, 2020

Note: Status of biopesticide projects from 2020 onward are included under the Minor use Project statuses by crop table

Note: Updated information since 10-March-20 in the Status Column is bolded and italicized

See legend below for explanation of the Project/Product Status

Crop	Pest(s)	Product	Active ingredient	Project ID	Project/Product Status
Alfalfa	Botrytis blossom blight	Serenade ASO, Serenade Opti	Bacillus subtilis QST 713	BPR13-02	On label
Alfalfa	Weevils	beetleGONE!	Bacillus thuringiensis galleriae	BPR14-01	Project withdrawn
Bee hives	varroa mite	Apilife VAR	thymol, eucalyptus oil, menthol	BPR15-01	<b><i>On label</i></b>
Bee hives	varroa mite	Hop Guard II	Potassium salts of hop beta acids	BPR16-03	On label
Blueberry, lowbush (organic)	Weeds	AEF-1201	Pine Oil	BPR13-03	Project on hold
Canola	Diamond back moth	Xentari	B. thuringiensis aizawai	BPR12-03	On label
Carrot	Nematode	Dazitol	Mustard oil, Oleoresin of Capsicum	BPR13-05	Rejected for use
Cherry	Cherry fruit fly	Naturalis L	Beauveria bassiana ATCC 74040	BPR11-04	Project withdrawn
Chrysanthemum	Thrips	Met52 Granular Bioinsecticide	Metarhizium anisopliae F52	BPR11-06	On label
Cranberry	Sedges and rushes	Serene	acetic acid	BPR12-01	On label
Cucumber greenhouse	Thrips	SorbiShield	Sorbitol Octanoate	BPR12-05	Project withdrawn
Cucumber, greenhouse	Powdery mildew	Organocide	Sesame Oil	BPR12-06	Project on hold
Herbs (organic)	Weeds	MBI-005	Streptomyces acidiscabies RL	BPR14-04	Project withdrawn
Hops	Downy mildew	Regalia	Extract of Reynoutria sachalinensis	BPR12-041	On label
Hops	Downy mildew	Actinovate	Streptomyces lydicus	BPR12-042	Project withdrawn
Hops	Downy mildew	Organocide	Fish oil and sesame oil	BPR12-043	Project on hold
Hops	Downy mildew	Serenade ASO, Serenade Opti	Bacillus subtilis QST 713	BPR12-044	On label
Onion	Onion thrips	Met52 Granular Bioinsecticide	Metarhizium anisopliae F52	BPR11-03	Project withdrawn



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Orchards	insect pests	Quassia Extract DM	Quassia amara extract	BPR15-02	Project on hold
Ornamentals (gerbera), greenhouse	Powdery mildew (Podosphaera fusca)	Cyclone	Citric acid and lactic acid	BPR14-073	On label
Ornamentals, greenhouse	Thrips	Suffoil-x	paraffinic oil	BPR12-07	On label
Ornamentals, greenhouse and outdoor	Liverwort and mosses	Mosskade	Wheat gluten and starch	BPR16-04	Project on hold
Ornamentals, outdoor and indoor	Foliar diseases	Rhapsody	Bacillus subtilis QST 713	BPR11-08	On label
Pepper, greenhouse	Thrips	Naturalis L	Beauveria bassiana ATCC 74040	BPR11-05	Project withdrawn
Pepper, greenhouse	Thrips	Grandevo (MBI-203)	Chromobacterium subtsugae	BPR13-06	Project withdrawn
Pepper, greenhouse	Botrytis grey mold	Problad Plus	blad protein	BPR14-05	On label
Poinsettia (greenhouse Ornamentals)	Whiteflies	Grandevo (MBI-203)	Chromobacterium subtsugae	BPR13-07	Project withdrawn
Potato	Sprout inhibitor	Restrain	Ethanol converted to ethylene	BPR19-01	Submitted to PMRA by registrant
Potato	Colorado potato beetle	Trident	Bacillus thuringiensis tenebrionis	BPR19-02	Project withdrawn
Raspberry	Nematode	Dazitol	Mustard oil, Oleoresin of Capsicum	BPR13-04	Rejected for use
Strawberry	Tarnished plant bug	Naturalis L	Beauveria bassiana ATCC 74040	BPR12-02	Project withdrawn
Strawberry	Nematode	MeloCon/Bioact	Paecilomyces lilacinus	BPR14-03	Project withdrawn
Sunflower	Head rot, white mold	Regalia MAXX	Extract of Reynoutria sachalinensis	BPR14-02	Project withdrawn
Taxus or Thuja (Outdoor Ornamentals)	Scale Insects	Grandevo (MBI-203)	Chromobacterium subtsugae	BPR13-08	Project withdrawn
Tomato, greenhouse	Botrytis	Donguard	Clonostachys rosea ACM941	BPR11-02	Project withdrawn
Tomato, greenhouse	Pepino mosaic virus	V10	Pepino Mosaic Virus vaccine	BPR16-05	On label



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Turf	European chafer, Japanese beetle, June beetle grubs	grubHALT!	Bacillus thuringiensis galleriae	BPR14-08	On Label
Turf (sod, golf course)	Hairy chinch bug	Grandevo (MBI-203)	Chromobacterium subtsugae	BPR12-08	Project withdrawn
Various crops	Onion thrips	Captiva Prime	Capsicum oleoresin extract, garlic oil, and soybean oil	BPR19-03	<b>Data with registrant for submission</b>
Various crops (alfalfa, apple, cranberry, eggplant, grape, onion, mustard, pecan, pepper, tomato, potato, strawberry, sweet corn, ornamentals)	Whiteflies, thrips, aphids, spider mites, leafminers, psyllids, plant bugs by foliar spray; weevils, grape phylloxera, rootworms, wireworms, coleoptera, lepidoptera, symphylans	PFR-97 / Preferal	Isaria fumosorosea Apopka Strain 97 (ATCC 20874) (formerly Paecilomyces fumosoroseus)	BPR18-02	<b>Preparing submission</b>
Various crops (apple, basil, cucumber, cauliflower, grape, lettuce, onion, ornamentals, pepper, raspberry, strawberry)	Multiple fungal soilborne and foliar diseases	Prestop	Gliocladium catenulatum strain J1446	BPR18-03	Project initiated
Various crops (berries, field vegetables, ornamental, turf)	Insects including spider mites, thrips, white fly, spotted wing drosophila, possibly aphids and scales	Bioceres	Beauveria bassiana strain ANT-3	BPR16-01	Project withdrawn
Various crops (berries, fruits, ornamentals, turf, vegetables)	Fusarium spp, Rhizoctonia spp, Phytophthora sp.	Foretryx (Bio-Tam 2.0)	Trichoderma asperellum strain ICC 012 and Trichoderma gamsii strain ICC 080	BPR17-02	<b>Submitted to PMRA by registrant</b>
Various crops (cucumber, grape, greenhouse tomato, ornamentals)	Powdery mildews, whiteflies and thrips, mealybugs, mites, aphids, spotted wing drosophila, Botrytis gray mold	Prev-Am / Appeal	Orange oil	BPR17-01	Preparing submission



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Various crops (grains, pulses, potatoes)	Nonselective post-emergent herbicide; also desiccant and harvest aid in potatoes, grain crops, and pulse crops	BioLink (Suppress)	Caprylic acid, capric acid	BPR18-04	On label
Various crops (greenhouse and field vegetables on crops of Solanaceae, Cruciferae, and Cucurbitaceae; potato seed)	Various bacterial diseases	Nobactra	Cocktail of 10 Bacteria and Oregano oil	BPR18-01	<b>Project withdrawn</b>
Various crops (small fruits, tree fruit, vegetables)	Spider mites, thrips, white fly, spotted wing drosophila	Ecotrol	Rosemary oil & peppermint oil & Geraniol/nerol	BPR16-02	Submitted to PMRA by registrant
Vegetables and ornamentals	Botrytis grey mold	Botector	Aureobasidium pullulans DSM 14940 and DSM 14941	BPR15-04	On label
Vegetables, fruit, pulse crops, ornamentals	Botrytis grey mould, white mould, powdery mildews, and bacterial blight	Oxidate	hydrogen peroxide	BPR15-03	On label
Vegetables, greenhouse and ornamentals, greenhouse	Thrips	Spear-T	GS-omega/kappa-Hctx-Hv1a (spider venom peptide)	BPR17-03	<b>Submitted to PMRA</b>
Wasabi, geenhouse	Aphids	PureSpray GREEN Spray Oil 13E	mineral oil	BPR14-06	Submitted to PMRA
Wheat	Broadleaf weeds	Phoma macrostoma	Phoma macrostoma	BPR11-01	Project on Hold
Wheat	Fusarium head blight	Donguard	Clonostachys rosea ACM941	BPR11-07	Project withdrawn
Wheat, spring	Cleavers	MBI-005	Streptomyces acidiscabies RL	BPR13-01	Project withdrawn



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### Legend:

**Data generation:** Efficacy field trials are in process of being conducted

**Data requirements determined:** Pre-submission consultation advice to confirm data requirements has been received from the Pest Management Regulatory Agency (PMRA)

**Data with registrant for submission:** The data generated through the project has been sent to the registrant for submission

**On label:** The product is registered

**PMRA approved:** The PMRA review is complete and approved the use

**Preparing submission:** Compiling and assembling data package for submission

**Project complete:** All data requirements within a project are complete

**Project initiated:** Project planning and establishment are in process

**Project on hold:** Specific issues need to be addressed

**Project withdrawn:** Support for this project has been withdrawn by the registrant or as a result of a change from the original selected

**Reporting phase:** Data resulting from field trials and/or other sources are being summarized

**Submitted to PMRA:** Data generated has been submitted to PMRA by Pest Management Centre or the registrant