



## Pest Management Centre

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

As of: February 5, 2021

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

Note: Updated information since 28-September-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	Bacillus thuringiensis galleriae	BPR14-01	Project withdrawn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	On label
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Cherry	Cherry fruit fly	Naturalis L	Beauveria bassiana ATCC 74040	BPR11-04	Project withdrawn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Cucumber greenhouse	Thrips	SorbiShield	Sorbitol Octanoate	BPR12-05	Project withdrawn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Herbs (organic)	Weeds	MBI-005	Streptomyces acidiscabies RL	BPR14-04	Project withdrawn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Hops	Downy mildew	Actinovate	Streptomyces lydicus	BPR12-042	Project withdrawn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Onion	Onion thrips	Met52 Granular Bioinsecticide	Metarhizium anisopliae F52	BPR11-03	Project withdrawn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	<b>Project withdrawn</b>
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 subsugae	BPR12-08	Project withdrawn
Various crops	Onion thrips	Captiva Prime	Capsicum oleoresin extract, garlic oil, and soybean oil	BPR19-03	Data with registrant for submission
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	Preparing submission
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	Submitted to PMRA by registrant
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	Project withdrawn
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	Submitted to PMRA
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