



Strawberry Fund

Annual Report 2018/19

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The projects in this report have been funded by Hort Innovation using sources including the strawberry levy, Australian Government contributions and, in some instances, co-contributions from a variety of sources.



Just some of the things your fund delivered in 2018/19:

- ✓ The **strawberry Harvest to Home dashboard** providing regular consumer behavioural data and insight reporting, at www.harvesttohome.net.au
- ✓ The continuation of **breeding and evaluation work**, which under the previous project delivered 12 new strawberry varieties (p9)
- ✓ The identification of options for **managing coir waste** from hydroponic berry production (p8)
- ✓ A host of new and **ongoing biosecurity work**, including projects related to Xylella, spotted wing drosophila and Queensland fruit fly (from p10)
- ✓ **The Berry Export Strategy 2028** and its key market insights (p8)
- ✓ **New final research reports and grower resources**, with 45+ now available from www.horticulture.com.au/strawberry



2018/19 SNAPSHOT

**\$1.85
MILLION**

INVESTED
IN R&D



20+

ACTIVE R&D
INVESTMENTS



Welcome

Hort Innovation is the grower-owned, not-for-profit research and development corporation (RDC) for Australia's horticulture sector. It's our job to work with industry to invest the strawberry R&D levy, together with Australian Government contributions, into key initiatives for growers.

The 2018/19 financial year was another great year of growing better, together – with strong investments, closer connections and critical collaborations being forged.

There was close to \$1.85 million invested into R&D through the Hort Innovation Strawberry Fund across the year, to support the industry in being as productive and profitable as possible. This included the establishment of seven new investments, featuring work allowing the strawberry industry to join forces with other horticulture industries for maximum efficiency and impact across shared issues and opportunities.

Read on to learn more about all of the projects undertaken. And remember to take advantage of the Hort Innovation website at www.horticulture.com.au/strawberry, where you can search and find information relating to investments, past and present, at any time. The new site and its Strawberry Fund section were launched in 2018/19.

During the year there were also many opportunities for Hort Innovation to connect with you, the growers. A big thank you in particular to everyone who came to our early-2019 regional roadshows to feed into the development of the new Hort Innovation Strategy 2019-2023 (read more at www.horticulture.com.au/strategy-2019-2023).

You can reach out to us at any time to learn more about our work, to submit ideas for investments, or to simply have a chat about your industry. You'll find details of specific staff at www.horticulture.com.au/get-in-touch, or can otherwise email communications@horticulture.com.au or call our general line on 02 8295 2300.



Additional value in the year

During 2018/19, Hort Innovation was proud to deliver extra value to the strawberry industry, outside of levy-funded initiatives within the Strawberry Fund. Here's a quick look at just some examples.



The new Hort Innovation website, with dedicated Strawberry Fund section

You can now visit www.horticulture.com.au/strawberry to quickly search and find strawberry investment information and updates, project resources, and growing tips and advice from Hort Innovation's R&D work. You can also download full final research reports direct from the site, access key contact information, share your ideas and feedback, and so much more.



The Australian Horticulture Statistics Handbook

Each year Hort Innovation delivers an *Australian Horticulture Statistics Handbook* packed with horticulture statistical information and analysis for use by specific industries and the wider sector. The handbook combines all available data on production, international trade, processing volumes and fresh market distribution for some 75 categories. The 2017/18 edition, released in early 2019, is available from www.horticulture.com.au/horticulture-statistics-handbook.



Hort Frontiers projects

With seven investment areas, Hort Innovation's Hort Frontiers strategic partnership initiative is about collaborative, cross-industry work to address longer-term, complex issues and opportunities identified as critical for the future of Australian horticulture. While the strawberry levy has been co-invested into a couple of Hort Frontiers projects, the bulk of funding continues to come from broad-reaching funding relationships secured by Hort Innovation, plus support from the Australian Government. Learn about all of the projects and what they're delivering for you at www.horticulture.com.au/hort-frontiers.



Grant funding

In 2018/19, Hort Innovation delivered \$6.7 million worth of investments involving grant funding across the horticulture sector. To do so, we applied for and secured a range of competitive grants on behalf of industry, including through the Australian Government's Rural R&D for Profit program, Improved Access to AgVet Chemicals initiative, and Agricultural Competitiveness White Paper. With projects across everything from biosecurity to pollination, there's plenty in there to directly and indirectly benefit the strawberry industry.

Making investments in 2018/19

Hort Innovation is dedicated to making the right investments at the right time and in the right areas, in line with identified priorities for the industry.

Where the funding comes from

The strawberry industry's grower-raised statutory R&D levy is collected by the Australian Government and entrusted to Hort Innovation as the RDC for Australian horticulture. It's then our responsibility to work with the industry to invest the levy, together with Australian Government contributions, into strategic initiatives for the benefit of growers.

Additional funding streams can also come into play, such as co-investment dollars from sources including project partners, and grant funding that Hort Innovation secures on behalf of industry.

How decisions are made

Investment decisions in the Hort Innovation Strawberry Fund are guided by the industry's Strategic Investment Plan (SIP). This document was developed through close consultation with growers and other industry stakeholders, and outlines specific investment priorities, strategies and themes. An at-a-glance version can be found at www.bit.ly/strawberry-plan, or find the full version at www.horticulture.com.au/strawberry.

The SIP is currently used like a 'roadmap' by the strawberry Strategic Investment Advisory Panel (SIAP) – a panel made up of growers and other industry representatives that's tasked with providing advice to Hort Innovation on potential levy investments.

Turning ideas into investments

Great investments start with great ideas, and Hort Innovation encourages all growers and other industry participants to share their thoughts and suggestions for the work they want to see. Ideas can be submitted any time via Hort Innovation's investment idea form at www.bit.ly/concept-form.

Ideas that are selected for investment are worked into project proposals by Hort Innovation. These are then made public for potential delivery partners to submit responses. Current opportunities are always listed at www.horticulture.com.au/delivery-partners.

Responses are assessed, often with the assistance of industry, and the best delivery partner for the work is chosen. A contract is then issued and the work begins.

Keeping track of investments

All investments in the Hort Innovation Strawberry Fund are detailed on the 'Your investments' page at www.horticulture.com.au/strawberry. We also send news and alerts to Hort Innovation members and contacts – if you haven't already, you can sign up for free at www.horticulture.com.au/sign-up.



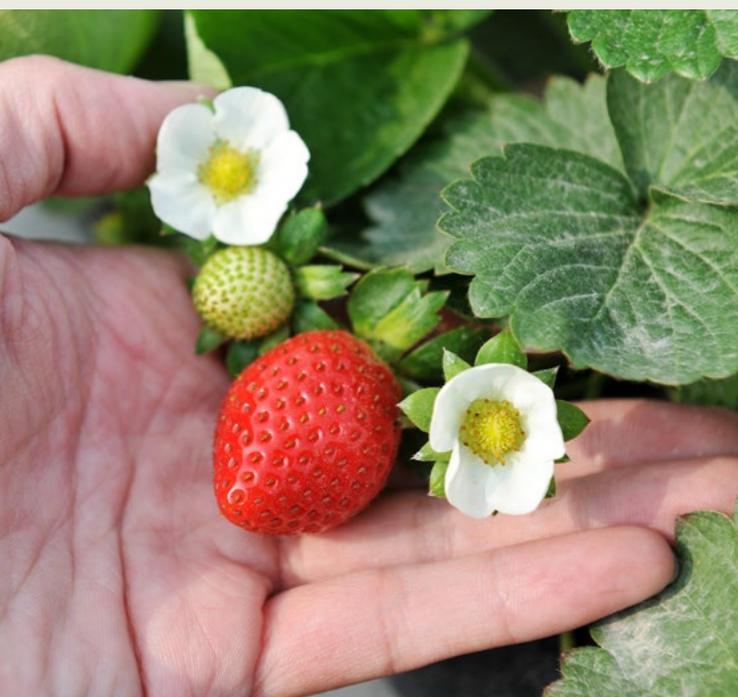
New investment analysis

You can now clearly see how investments in the Hort Innovation Strawberry Fund align to the industry's SIP, with new and interactive investment analysis information available from www.bit.ly/strawberry-investment. The analysis currently shows the allocation of funding against each of the strawberry SIP outcomes from the start of the SIP (2016/17) to the end of 2018/19, and gives an indication of the projects that are aligned to each outcome.

R&D project list 2018/19

NEW INVESTMENTS IN 2018/19	
FF18003	SITplus: Port Augusta Qfly SIT factory pilot operation
MT17006	Xylella coordinator
MT17006	Improving preparedness of the Australian horticultural sector to the threat potentially posed by <i>Xylella fastidiosa</i> (a severe biosecurity risk)
MT18004	Review of the biosecurity plan for the berry sector
MT18010	Developing IPM-compatible controls for spotted winged drosophila (<i>Drosophila suzukii</i>)
MT18010	Exploring IPM-compatible methods for spotted winged drosophila in berry crops
MT18011	Ex-post impact assessment*

* This multi-industry project was a key monitoring and evaluation investment during 2018/19 – we encourage you to find the full details at www.horticulture.com.au/mt18011



ONGOING INVESTMENTS IN 2018/19	
BS15002	Facilitating the development of the Australian strawberry industry – national oversight and communications
BS15003	Facilitating the development of the Australian strawberry industry – sub-tropical regional delivery
BS15004	Facilitating the development of the Australian strawberry industry – temperate regional delivery
BS15005	Improved management of charcoal rot of strawberry
BS16001	Strawberry industry minor use program
BS17000	National strawberry varietal improvement program
AM17001	Developing a national systems approach for meeting bio-security requirements to access key Asian markets
MT13059	SITplus: Developing and optimising production of a male-only, temperature-sensitive-lethal, strain of Qfly, <i>B. tryoni</i>
MT14052	Essential market access data packages
MT16005	Enhanced National Bee Pest Surveillance Program
MT17005	Improving the biosecurity preparedness of Australian horticulture for the exotic spotted wing drosophila (<i>Drosophila suzukii</i>)
MT17015	Consumer behavioural and retail data for fresh produce
ST16006	Generation of residue, efficacy and crop safety data for pesticide applications in horticulture crops
ST16008	AgVet collaborative forum
ST17000	Generation of data for pesticide applications in horticulture crops 2018

INVESTMENTS COMPLETED IN 2018/19

MT17001	Berry export strategy
MT17016	Coir waste management for hydroponic berries

During the 2018/19 financial year, all levy paying horticulture industries also contributed to a small selection of across-industry projects addressing issues that affect horticulture as a whole. Details of all investments that Hort Innovation manages can be found at www.horticulture.com.au.



But wait, there's more. To see what Hort Innovation delivered across the entire horticulture sector in 2018/19, download the full Hort Innovation Annual Report 2018/19 from www.horticulture.com.au/annual-report-portal.



R&D report

Take a closer look at some of the key investments in the Hort Innovation Strawberry Fund during 2018/19. Any resources from these and other levy-funded projects – such as fact sheets, guides and more – are published on your grower page at www.horticulture.com.au/strawberry as they become available.

Coir waste management for hydroponic berries (MT17016)

NOW COMPLETE

Key research provider: RMCG

Management of spent coir has become a challenge for many producers, including strawberry growers. This project investigated opportunities for its beneficial reuse. The team researched the use of coir, options for spent coir, and consulted with experts in the area both here and overseas to make recommendations on the best way to deal with it.

Key findings included:

- » Composting on farm is an option for those who can use or sell the compost. Co-composting with materials with high nitrogen content such as manure may be required to make sure composting is effective.
- » Reuse on farms without composting as a soil amendment is suitable.
- » Berry producers can link up with organic recyclers in their region to dispose of spent coir, which is often the most cost-effective solution. The map at www.bit.ly/organic-recycling-options can help growers in finding local connections.
- » Other opportunities can include landscape companies, chicken producers and orchardists, although profiling of the used coir might be necessary to demonstrate suitability for some options.
- » Growers can work with others in protected fruit, vegetables and flowers, which are industries with similar waste problems.

The project team recommended that a voluntary stewardship program could be established involving the entire supply chain, including growers, coir importers, industry groups and the Australian Organic Recycling Organisation.

Full details can be found in the project's final research report, which can be downloaded from www.bit.ly/mt17016.

Berry export strategy (MT17001)

NOW COMPLETE

Key research provider: Auspex Strategic Advisory

Funded by both the strawberry and raspberry and blackberry industries, this project identified, sized and prioritised opportunities for the industries in international markets, through the development of an export strategy.

The *Berry Export Strategy 2028* was released in July 2018, providing the industries with a strategic assessment of future opportunities for export market development over a 10-year horizon. A strategy overview is available to download from Hort Innovation at www.bit.ly/berry-export.

Review of the biosecurity plan for the berry sector (MT18004)

NEW IN 2018/19

Key research provider: Plant Health Australia

This five-year investment is tasked with reviewing existing biosecurity priorities, plans and needs for the strawberry and rubus industries, and will ultimately deliver a cohesive biosecurity plan for the Australian berry sector. Like the existing individual industry plans, the berry sector plan will be a top-level document that identifies high-priority endemic and exotic pests, diseases and weeds, along with the risk mitigation activities required to reduce their biosecurity threat, plus surveillance and diagnostic activities. It will provide a strategic framework for industry and government to work together to improve preparedness for and response to these potential threats.

The current strawberry biosecurity plan is available from Plant Health Australia at www.planthealthaustralia.com.au/industries/strawberries.

Improved management of charcoal rot of strawberry (BS15005)

Key research provider: The Queensland Department of Agriculture and Fisheries

Beginning in mid-2017, this project is tasked with helping tackle charcoal rot, reducing its occurrence and related losses and costs for the Australian strawberry industry. It is responsible for investigating improved management approaches including chemical, biological and cultural options for the disease, which is caused by the fungus *Macrophomina phaseolina* and has symptoms including crown and root rot, plant wilting and yellowing of leaves (chlorosis).

National strawberry varietal improvement program (BS17000)

Key research provider: The Queensland Department of Agriculture and Fisheries

Beginning in mid-2018, this investment continues the work of the long-term national strawberry breeding, evaluation and release program, which under previous investment *National strawberry varietal improvement program* (BS12021) saw 12 new varieties developed and positioned for commercialisation (read all about this at www.bit.ly/bs12021).

Like its predecessor, the current iteration of the program will ensure the Australian strawberry industry has access to improved, locally-adapted varieties into the future, continuing the development and commercial release of superior varieties for targeted environments including temperate, subtropical and Mediterranean growing regions.

The program's advanced breeding and evaluation approaches are being further enhanced through the inclusion of alternative production systems and the latest advancements in genomics.

Facilitating the development of the Australian strawberry industry (BS15002, BS15003 and BS15004)

Key research providers: RMCG (BS15002); Qld Strawberry Industry Promotions Council (BS15003); Victorian Strawberry Industry Development Committee (BS15004)

Together these three projects formed an industry development program designed to improve Australian strawberry growers' knowledge and skills; facilitate the adoption of innovation and R&D outcomes; and support practice change to ensure the profitability and sustainability of the industry. While ongoing during 2018/19, the program concluded early in the 2019/20 period, with Hort Innovation working to establish a new communications initiative spanning the berry industries.

Throughout the program's course, the national project ***Facilitating the development of the Australian strawberry industry – national oversight and communications (BS15002)*** produced and maintained key industry communication channels during this period, including:

- » The Strawberry Innovation website for industry news and R&D communications
- » The quarterly national industry newsletter *Simply Red*
- » The monthly national e-newsletter *The Punnet*.

The two regional projects (BS15003 and BS15004) worked in conjunction with the national program to deliver additional activities such as workshops, grower groups, farm walks, field days, study tours, case studies and industry analysis. Specifically, they funded the positions of industry development officers (IDOs).

The industry development program produced a wide range of resources for strawberry growers, which continue to be available from the Hort Innovation website at www.bit.ly/strawberry-development.



Consumer behavioural and retail data for fresh produce (MT17015)

Key research provider: Nielsen

This multi-industry investment is tasked with providing regular consumer behaviour data and insight reporting to a range of industries, through the Harvest to Home platform (www.harvesttohome.net.au).

The platform has a dedicated dashboard for strawberries, making data and reporting easily accessible for industry participants. The information is intended to assist growers and supply chain partners in decision-making for their businesses and, for the wider industry, the data and insights are available to support strategic activities.

Strawberry industry minor use program (BS16001)

Key research provider: Hort Innovation

Through this project, levy funds and Australian Government contributions are used to submit renewals and applications for minor use permits for the strawberry industry as required. These submissions are prepared and submitted to the Australian Pesticides and Veterinary Medicines Authority (APVMA).

For more on minor use permits, including a list of permits, see p13.

All current minor use permits for the industry are searchable at portal.apvma.gov.au/permits. Permit updates are also circulated in Hort Innovation's *Growing Innovation* e-newsletter, which you can sign up for at www.horticulture.com.au/sign-up.

Data generation investments (ST17000 and ST16006)

Key research providers: Eurofins, Peracto

The generation of pesticide residue, efficacy and crop safety data is required to support label registration and minor use permit applications made to the APVMA which, when approved, provide access to safe and effective chemicals for the management of pests, weeds and diseases.

The projects **Generation of data for pesticide applications in horticulture crops 2018 (ST17000)** and **Generation of residue, efficacy and crop safety data for pesticide applications in horticulture crops 2017 (ST16006)** are responsible for generating the data needed to support a range of registration and minor use applications across a variety of horticulture crops, including strawberries. Work for the strawberry industry under both of these projects involves grant funding secured by Hort Innovation under the Australian Government's Access to Industry Uses of Agricultural and Veterinary (AgVet) Chemicals program.



Xylella coordinator (MT17006)

NEW IN 2018/19

Key research provider: Wine Australia

Xylella fastidiosa is an exotic and potentially devastating bacteria that impedes the movement of rising sap in plants. While it hasn't yet appeared in Australia it has proven catastrophic overseas and, were it to enter the country, it could threaten more than 350 commercial, ornamental and native plant species.

This multi-industry and multi-sector investment supports the role and activities of a national coordinator as part of a three-year program to improve Australia's readiness for any potential incursion of the disease. This is a joint initiative between Hort Innovation and Wine Australia, through the Plant Biosecurity Research Initiative (PBRi). The PBRi is a collaboration between Australia's seven plant-focused Rural RDCs, Plant Health Australia, the Department of Agriculture and other contributors, to coordinate plant biosecurity RD&E funding and efforts. You can learn more at www.pbri.com.au.

Improving preparedness of the Australian horticultural sector to the threat potentially posed by Xylella fastidiosa (a severe biosecurity risk) (MT17006)

NEW IN 2018/19

Key research provider: The Victorian Department of Jobs, Precincts and Regions

Adding to the PBRi's *Xylella* work as described above, this multi-industry investment will review and allow Australia to adopt world's best practice methods for detecting and identifying strains of the *Xylella fastidiosa* bacteria, should it come to our shores. As well as developing state-of-the-art diagnostic tools, technologies and protocols to screen plant material entering the country and to support active surveillance programs, it will provide associated training to technical staff in diagnostic laboratories.

The project's work will ultimately allow for quick and effective detection of what is considered to be the number one plant biosecurity threat to Australia and New Zealand, to facilitate a swift and sure response.

Improving the biosecurity preparedness of Australian horticulture for the exotic spotted wing drosophila (*Drosophila suzukii*) (MT17005)

Key research provider: Plant Health Australia

This multi-industry investment is tasked with improving industry awareness of the risks posed by spotted wing drosophila, which attacks a range of soft-skinned fruit, and also with increasing the capacity to detect and respond to any incursions of the pest.

Activities include building knowledge and capacity around appropriate surveillance and management tools and strategies within the growing industries, government and among other relevant stakeholders. Looking at options for meeting domestic and international quarantine requirements are also among the project's activities.

Developing IPM-compatible controls for spotted winged drosophila (MT18010)

NEW IN 2018/19

Key research provider: IPM Technologies

Beginning in April 2019, this investment is developing and evaluating control measures against spotted wing drosophila, which are compatible with integrated crop management (IPM) approaches used in berry crops.

Though not currently in Australia, spotted wing drosophila poses a biosecurity risk for several of the nation's horticulture industries, including berries. Control measures overseas include regular use of insecticides that aren't IPM compatible. With IPM well-adopted in Australian berry crop production, the use of such insecticides here could lead to severe flares of other issues, such as western flower thrips and two-spotted mite.

With this in mind, this project is preparing and testing IPM-compatible control measures against spotted wing drosophila overseas, so that sustainable long-term management in Australia will be possible should the pest arrive on our shores.

There is also a sister project to this investment, **Exploring IPM-compatible methods for spotted winged drosophila in berry crops (MT18010)**, which is being delivered by cesar. This component of the work involves desktop research that will put an Australian focus on existing spotted wing drosophila research; review of trial site results; and work to extend research findings. Communicating information on spotted wing drosophila and likely control measures (IPM-safe and otherwise) to berry growers and advisors will be key to the program.

Overall, the work is related to the major spotted wing drosophila initiative facilitated through project MT17005, described above.

Enhanced National Bee Pest Surveillance Program (MT16005)

HORT FRONTIERS

Key research provider: Plant Health Australia

This investment is delivering a nationally coordinated bee-pest surveillance program to help safeguard honey-bee and pollinator-dependent industries in Australia. It builds upon the previous *National Bee Pest Surveillance Program* (MT12011), and includes upgrading sentinel hive arrays, strengthening relationships with surveillance operators, the introduction of new elements such as Asian hornet screening and more. The surveillance is designed to enable the early detection of high-priority pest incursions that can impact on honey bees, providing the best opportunity for successful pest eradication.

The strawberry industry is one of several contributors to the work, and the program is part of the Hort Frontiers Pollination Fund.

SITplus: Port Augusta Qfly SIT factory pilot operation (FF18003)

NEW IN 2018/19

HORT FRONTIERS

Key research provider: University of Western Sydney, with Primary Industries and Regions South Australia (PIRSA)

A purpose-built sterile Queensland fruit fly facility was established in Port Augusta, South Australia under earlier work in the Hort Frontiers Fruit Fly Fund and broader SITplus initiative. With sterile insect technology (SIT) a promising control method for Queensland fruit fly, the facility is a state-of-the-art factory for the mass-rearing of sterile flies.

This investment is continuing support for the pilot operation of the facility, allowing delivery of sterile flies to an associated pilot release project. It is also delivering further research to optimise the SIT approach and improve the production of healthy and high-performing sterile fruit flies. The work is being funded through co-investment from a range of partners, funding from the Australian Government, and some contributions from levy industries, including through the Hort Innovation Strawberry Fund.

For more on the facility, SITplus program and Hort Frontiers Fruit Fly Fund, visit www.horticulture.com.au/hort-frontiers.



SITplus: Developing and optimising production of a male-only, temperature-sensitive-lethal, strain of Qfly, *B. tryoni* (MT13059)

HORT FRONTIERS

Key research provider: South Australian Research and Development Institute (SARDI)

This project is developing a ‘temperature-sensitive lethal, male-selecting’ strain of Queensland fruit fly. To put simply, the research will allow for male-only, sterile fruit flies to be bred in large numbers. It is one of the key projects in the broader strategic co-investment SITplus initiative that’s tackling the issue of fruit fly. The male flies are to ultimately be released in growing regions of south-eastern Australian that are affected by the pest. They will come to outnumber the wild male population in these areas and by mating with wild females – and limiting the opportunity for wild males to do so – they are intended to lead to the collapse of wild Queensland fruit fly populations.

Levies from several horticulture industries are involved in the project which, as a SITplus initiative, is part of the Hort Frontiers Fruit Fly Fund.

Developing a national systems approach for meeting biosecurity requirements to access key Asian markets (AM17001)

HORT FRONTIERS

Key research provider: Queensland Eco-sciences Precinct

Most horticultural trade relies on demonstrating that the commodity either comes from an area that is free of pests and diseases (area freedom), or involves the application of an agreed, stringent end-point treatment. This project is a collaboration between industry, researchers and regulators to help Australian horticulture enterprises realise market opportunities in Australia and Asia by developing a quantitative ‘systems approach’ that will be acceptable to regulators. It will also be providing the supporting information necessary to help industries evaluate and adopt systems approaches.

Systems approaches integrate those pre- and post-harvest practices used in production, harvest, packing and distribution of a commodity which cumulatively meet requirements for quarantine security. The systems approach used in each region will set safeguards and mitigation measures which individually and cumulatively provide a reduction in plant pest risk.



To keep up to date with the latest information on new, ongoing and recently completed R&D investments throughout the year – and to search and find resources and reports from these investments – visit www.horticulture.com.au/strawberry.

Minor use permits

The Hort Innovation Strawberry Fund supports the submission of applications for new and renewed minor use permits for the industry, as well as data generation activities to support chemical permits and registrations, and strategic agrichemical reviews.

Together these efforts provide industry access to safe, relevant and effective chemicals for the management of pests, weeds and diseases.

For full details on these activities and links to relevant information, visit www.bit.ly/minor-use-strawberry.

Permits in 2018/19

During the 2018/19 financial year, a successful new permit application for PER87797 and successful renewals for PER12927 (issued as PER87408) and PER14577 were prepared by Hort Innovation and submitted to the APVMA, facilitated through the *Strawberry industry minor use program* (BS16001).

Meanwhile, successful renewed permits PER14483 and PER81745 were also issued during 2018/19, with the applications submitted through the industry minor use program in the previous financial year.

Details for these and all other permits can be found in the following table.

Current permits

Below is a list of minor use permits for the strawberry industry, current as of 20 September 2019.

PERMIT ID	DESCRIPTION	DATE ISSUED	EXPIRY DATE	PERMIT HOLDER
PER12486 Version 5	Trichlorfon / Specified berry fruit / Fruit fly	06-Oct-11	31-May-21	Australian Blueberry Growers' Association C/Hort Innovation
PER87408	Spinetoram (Success NEO) / Strawberries, rubus and rubus hybrids and blueberries / Fruit fly (suppression only) <i>All states</i>	15-Apr-19	30-Apr-24	Hort Innovation
PER80064 Version 2	Phosphorous acid / Strawberries / Crown rot (<i>Phytophthora</i> spp.)	01-Nov-14	31-Oct-20	Strawberries Australia Inc (SAI) C/Hort Innovation
PER13331 Version 2	Pyriproxyfen (Admiral) / Strawberries / Greenhouse and silverleaf whitefly	08-May-12	31-Oct-20	SAI
PER13542 Version 2	Maldison / Strawberries / Rutherglen bug	01-Jul-12	30-Jun-22	SAI C/Hort Innovation
PER13697 Version 2	Metalaxyl-M (Ridomil Gold 480SL) and phosphorous acid / Strawberry runners / Root and crown rot (<i>Phytophthora cactorum</i>)	28-Aug-12	30-Sep-22	SAI C/Hort Innovation
PER14483 Version 2	Pyraclostrobin (Cabrio Fungicide) / Strawberry runners (non-fruiting) / Crown or petiole rot	29-Oct-13	30-Sep-23	SAI C/Hort Innovation
PER14192 Version 2	Indoxacarb (Avatar) / Strawberries / Whitefringed weevil and garden weevil	24-Dec-13	30-Sep-23	SAI C/Hort Innovation

[Continued >>](#)



PERMIT ID	DESCRIPTION	DATE ISSUED	EXPIRY DATE	PERMIT HOLDER
PER14307 Version 2	Zinc Phosphide (Rattoff) / Strawberries / Mice	05-May-14	31-Jan-22	SAI C/Hort Innovation
PER14577	Quinoxifen (Legend) / Strawberry runner production only / Powdery mildew	23-May-14	30-Sep-19	SAI C/Hort Innovation
PER80670	Cyflufenamid (Flute) / Strawberry runner production only / Powdery mildew	08-Aug-15	31-Jul-20	SAI C/Hort Innovation
PER80543	Bupirimate (Nimrod Fungicide) / Strawberry runner production only / Powdery mildew	11-Oct-15	31-Aug-20	SAI C/Hort Innovation
PER81745 Version 2	Chlorpyrifos (suSCon Green and suSCon Blue soil insecticide) / Strawberries / Scarab beetles	21-Oct-15	30-Sep-23	Hort Innovation
PER82598	Fonicamid (Mainman) / Strawberries / Aphids, whiteflies and green mirid (field and protected grown) <i>All states</i>	31-Mar-17	30-Nov-21	SAI C/Hort Innovation
PER83871	Fluazinam (Gem Fungicide) / Strawberry runner production / Leaf blotch	19-May-17	30-Jun-22	SAI C/Hort Innovation
PER83397 Version 2	Selontra soft bait rodenticide (Cholecalciferol) / Strawberries / Rat and mice	20-Apr-17	28-Feb-22	BASF
PER81810	Pymetrozine (Chess) / Strawberries (protected grown) / Aphids <i>TAS only</i>	15-Apr-16	30-Apr-21	Costa Exchange Pty Ltd
PER87797	Afidopyropen (Versys) / Strawberries (field and protected grown) / Aphids, green peach aphid, black peach aphid, melon aphid and strawberry aphid	04-Sep-19	30-Sep-24	Hort Innovation

All efforts have been made to provide the most current, complete and accurate information on these permits, however you should always confirm all details on the APVMA website at portal.apvma.gov.au/permits. Details of the conditions of use associated with these permits can also be found on the APVMA site.

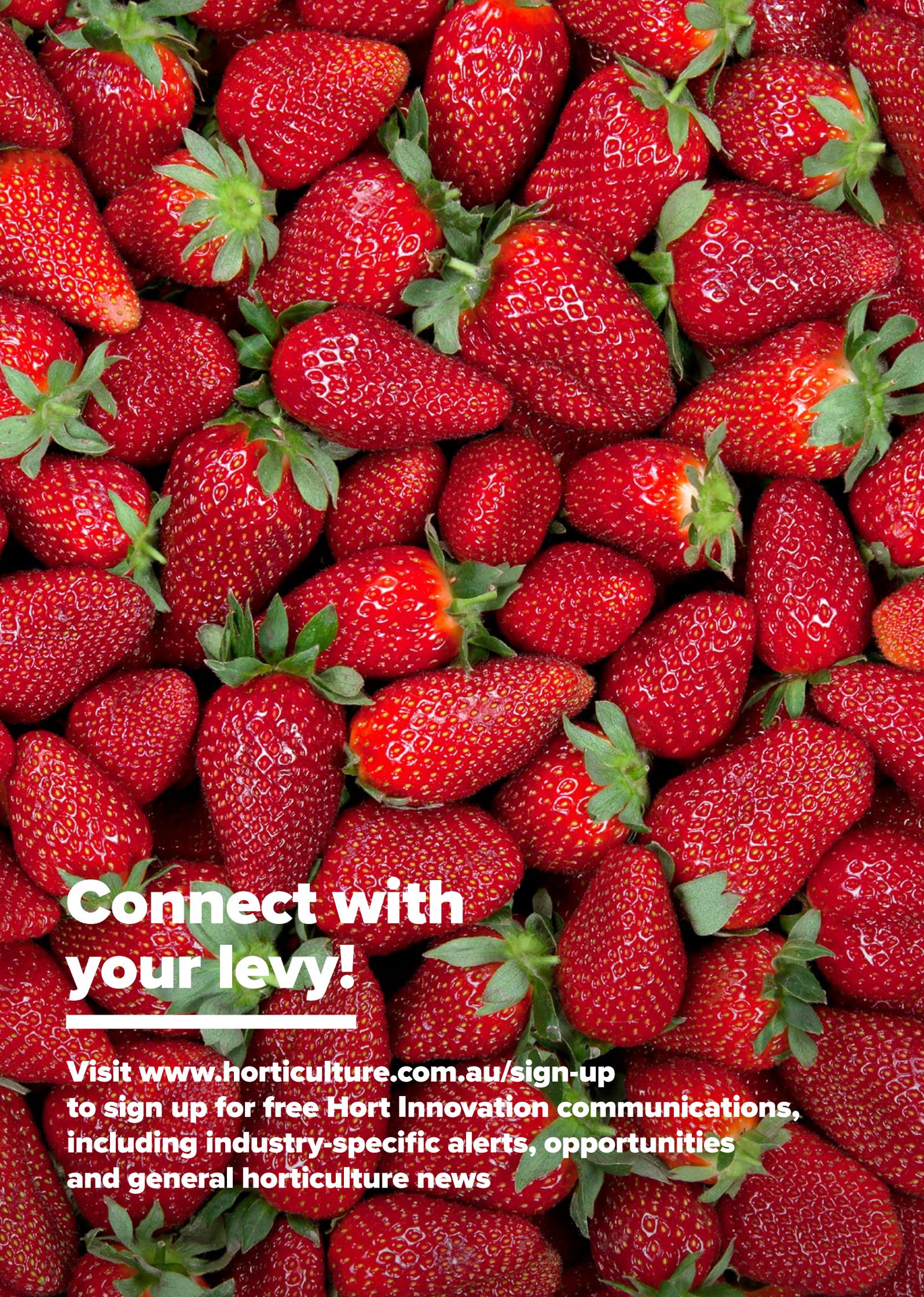
Minor use permit updates are circulated in Hort Innovation's e-newsletter, *Growing Innovation*. Don't yet receive it? Sign up for free at www.horticulture.com.au/sign-up.

Financial statement

Financial operating statement 2018/19

	R&D (\$)	TOTAL (\$)
	2018/19 July – June	2018/19 July – June
OPENING BALANCE	2,141,831	2,141,831
Levies from growers (net of collection costs)	737,838	737,838
Australian Government money	1,091,903	1,091,903
Other income*	204,632	204,632
TOTAL INCOME	2,034,373	2,034,373
Project funding	1,847,841	1,847,841
Consultation with and advice from growers	34,082	34,082
Service delivery – base	76,433	76,433
Service delivery – shared	126,661	126,661
Service delivery – fund specific	98,789	98,789
TOTAL EXPENDITURE	2,183,806	2,183,806
Levy contribution to across-industry activity	50,019	50,019
CLOSING BALANCE	1,942,378	1,942,378
Levy collection costs	2,395	2,395

* Interest, royalties



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