

Almond Annual Investment Plan 2021/22

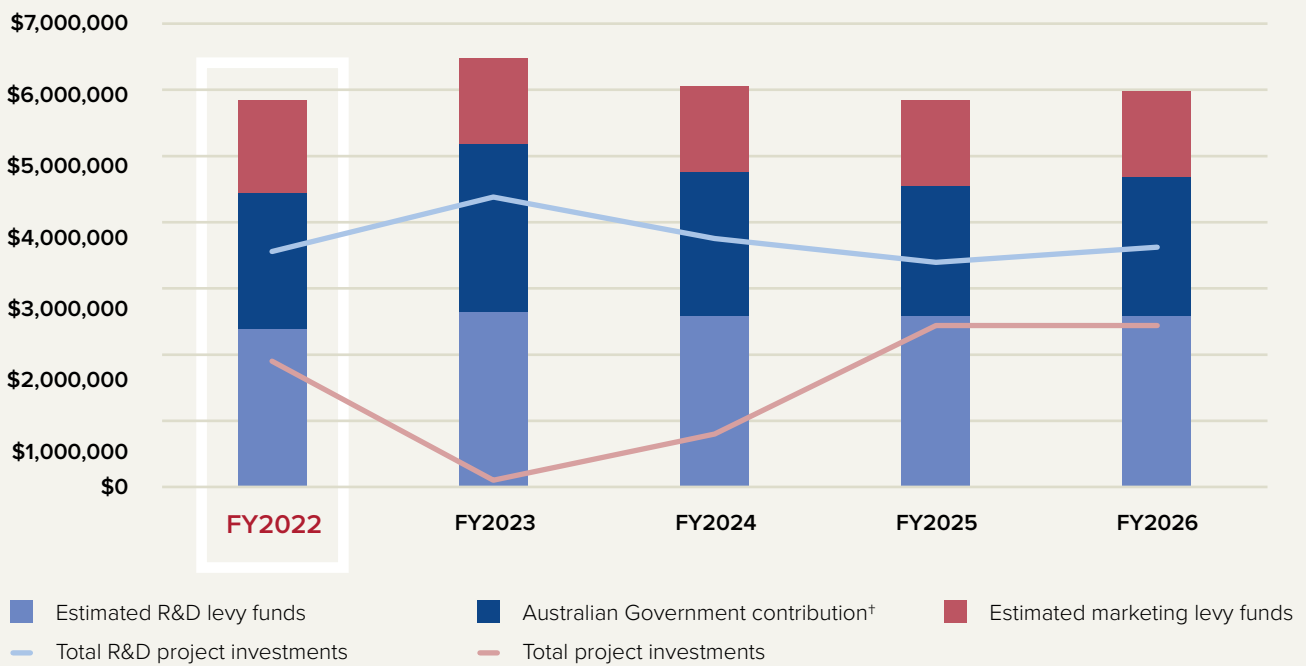


The 5-year Strategic Investment Plan

The almond Strategic Investment Plan (SIP) 2022-2026 provides a roadmap to guide Hort Innovation’s investment of almond industry levies and Australian Government contribution, ensuring investment decisions are aligned with industry priorities.

Figure 1 provides an indicative overview of the Almond Fund’s funding availability over the life of the SIP (FY2022-FY2026).

FIGURE 1. INDICATIVE FUNDING AVAILABILITY FOR THE ALMOND FUND’S FIVE-YEAR INVESTMENT PROGRAM



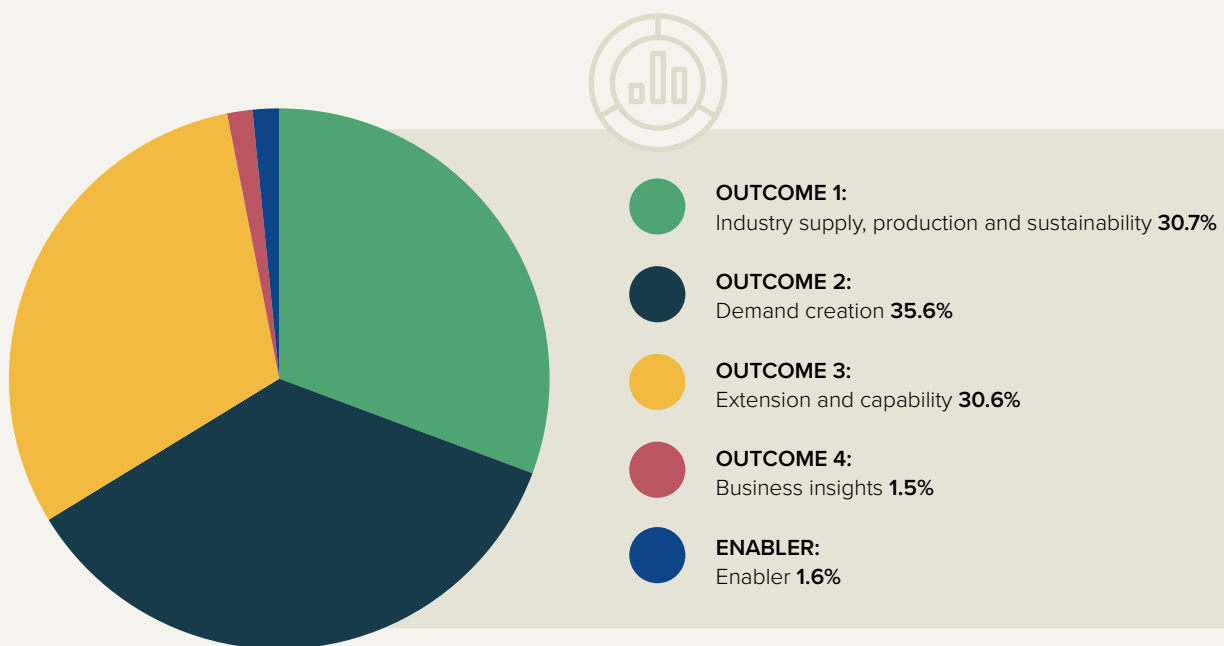
* Australian Government contribution is only applicable to the estimated levy funds for R&D.

About the almond Annual Investment Plan

Investment decisions in the Almond Fund are guided by the almond SIP 2022-2026 and prioritised based on potential industry impact, as well as availability of levy funds each year. Specific investments to address the SIP outcomes and strategies, and how they align with industry strategic priorities are outlined in detail through the almond AIP each year.

Figure 2 summarises how the AIP will invest in the SIP outcome areas for FY2022.

FIGURE 2. ALMOND STRATEGIC INVESTMENT PLAN EXPENDITURE ANALYSIS FY2022



\$4,380,438

THE **TOTAL AMOUNT COMMITTED**
FROM EXISTING INVESTMENT IN
THE ALMOND FUND FOR 2021/22

Almond Annual Investment Plan in detail

The financial table on the following pages provides detail on current investments and how new investments will be made in the Almond Fund in FY2022. Outcomes in the almond SIP 2022-2026 are defined below for your reference when reading the financial table.

Outcome 1 – Industry supply, production and sustainability

The Australian almond industry has increased profitability, efficiency and sustainability through innovative research and development research and development focusing on an integrated approach to plant improvement, orchard productivity, soil health, water-use efficiency, pollination, integrated pest and disease management (IPDM) and emerging technologies.

Outcome 2 – Demand creation

Demand creation supports the Australian almond industry to develop existing and future domestic and international markets.

Outcome 3 – Extension and capability

Improved capability and an innovative culture in the Australian almond industry maximises investments in productivity and demand.

Outcome 4 – Business insights

The Australian almond industry is more profitable through informed decision-making using consumer knowledge and tracking, trade data, production statistics and forecasting, and independent reviews.

Enabler

Investments that support the delivery of the Strategic Investment Plan.

TABLE 1. INDICATIVE ESTIMATES FOR THE ALMOND ANNUAL INVESTMENT PLAN 2021/22 AS AT **1 JULY 2021****RESEARCH AND DEVELOPMENT (LEVY)**

	\$
OPENING FUND BALANCE	378,939
Levy income	2,385,000
Levy collection costs	(9,000)
Australian Government contribution	2,108,343
Other income	–
TOTAL INCOME	4,484,343

Contracted R&D projects

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, productivity and sustainability	Provide regulatory support and co-ordination for crop protection regulatory activities with the potential to impact plant protection	AL16002	Almond Minor use permits	–	–	–	3,700	3,700
Industry supply, productivity and sustainability	Generate residue, efficacy and crop safety data to support app. lications to the APVMA that seeks to gain, maintain or broaden access to priority uses for label registrations and/or minor use permits for crop protection needs*	MT18018	Generation of data for pesticide applications in horticulture	–	–	–	30,000	30,000
Industry supply, productivity and sustainability	Support pollination security through robust honey bee health, pest and disease mitigation, and investigating alternative mechanical and crop solutions	PH17001	Development of non-invasive methods and systems for the assessment of hive health	–	–	–	58,497	58,497
Industry supply, productivity and sustainability	Continue to develop, enhance and implement almond industry IPDM options and strategies concentrating on practices that have the most impact on productivity and almond quality	AL16005	An Integrated Disease Management Programme for the Australian Almond Industry	–	181,413	–	181,413	362,826

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	AL16006	Evaluation of Potential Prunus Rootstocks for Almond Production – Stage 2	–	63,396	–	–	63,396
Industry supply, productivity and sustainability	Continue to develop, enhance and implement almond industry IPDM options and strategies concentrating on practices that have the most impact on productivity and almond quality	AL16009	An Integrated Pest Management Programme for the Australian Almond Industry	–	210,263	–	190,263	400,526
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	AL17005	Australia Almond Breeding Program – Next Generation	–	116,491	–	–	116,491
Industry supply, productivity and sustainability	Support pollination security through robust honey bee health, pest and disease mitigation, and investigating alternative mechanical and crop solutions	MT16005	Enhanced National Bee Pest Surveillance Program	–	–	37,500	–	37,500
Industry supply, productivity and sustainability	Support pollination security through robust honey bee health, pest and disease mitigation, and investigating alternative mechanical and crop solutions	MT18019	Development and implementation of protocols to enable importation of improved honey bee genetics to Australia	–	20,000	–	–	20,000
Industry supply, productivity and sustainability	Provide regulatory support and co-ordination for crop protection regulatory activities with the potential to impact plant protection	MT20007	Regulatory Support & Response Co-ordination	–	4,660	–	–	4,660
Demand creation	Collaborate with government and other industries to improve technical market access for current markets, and access to new, high value markets	AL19002	Almond Market Access and Trade Development	–	174,838	51,867	387,128	613,833
Extension and capability	Deliver extension and communication capabilities and business insights to support positive change in the areas of productivity and demand	AL16700	Australia Almond Industry Conferences and Field Days 2017 – 2022	15,000	–	60,000	–	75,000

Continued >>

Contracted R&D projects (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Extension and capability	Deliver extension and communication capabilities and business insights to support positive change in the areas of productivity and demand	AL18001	Australian Almond Industry – Communications program	52,000	–	57,462	–	109,462
Extension and capability	Deliver extension and communication capabilities and business insights to support positive change in the areas of productivity and demand	AL19001	Almond Industry Innovation and Adoption Program	–	223,146	–	223,146	446,292
Business insights	Develop in-season almond production forecasts that support industry strategic market planning strategies in domestic and export markets	AL19005	Australian Almond Industry Statistics and Data Collection 2020-2022	29,954	–	29,953	–	59,907
Business insights	Use trade data to guide ongoing export development opportunities*	MT19005	Horticulture Trade Data	–	3,013	–	3,013	6,026
Enabler	Enabler	AL18910 / 19910	Grower Advice & Consultation	–	–	–	30,000	30,000
Enabler	Enabler	AL19006	Almond Industry International Study Tour	–	–	–	–	–
Enabler	Enabler	MT20003	SIP Development Support	–	–	–	25,898	25,898
Enabler	Enabler	MT21002	Hort Innovation Fund Annual Reports 2020/21	–	–	–	1,922	1,922
Enabler	Enabler	MT18011	Ex-post impact assessment	6,507	5,206	–	–	11,712
Contracted investment				103,461	1,002,426	236,781	1,134,980	2,477,648

Disclaimer: All figures are indicative only and may change depending on milestone achievements and actual income and expenditure.

* Foundational investments provide data and information that underpin the delivery of other SIP outcome areas and will be aligned to this strategy. Foundational investment areas include:

- Consumer behavioural data
- Consumer usage and attitudes, and brand health tracking data
- Impact assessments
- Trade data
- Crop protectant data.

Uncontracted new R&D investments

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, productivity and sustainability	Enhance the understanding of the impacts of climate change on almond production system, including defining the almond industry greenhouse gas emissions footprint, and evaluating industry options for offsetting greenhouse gas impacts	TBC	Whole orchard recycling (WOR) in almond orchards – almond industry sustainability program	–	–	–	–	100,000
Industry supply, productivity and sustainability	Enhance the understanding of the impacts of climate change on almond production system, including defining the almond industry greenhouse gas emissions footprint, and evaluating industry options for offsetting greenhouse gas impacts	TBC	Carbon life cycle analysis (LCA) in almond orchards – almond industry sustainability program.	–	–	–	–	120,000
Industry supply, productivity and sustainability	Enhance the understanding of the impacts of climate change on almond production system, including defining the almond industry greenhouse gas emissions footprint, and evaluating industry options for offsetting greenhouse gas impacts	TBC	Transform almond hulls/shells into organic fertiliser – almond industry sustainability program.	–	–	–	–	140,000
Industry supply, productivity and sustainability	Enhance the understanding of the impacts of climate change on almond production system, including defining the almond industry greenhouse gas emissions footprint, and evaluating industry options for offsetting greenhouse gas impacts	TBC	Benchmarking of almond orchard performance – almond industry sustainability program.	–	–	–	–	80,000
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Rootstock compatibility and density optimisation	–	–	–	–	130,000
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Rootstock trial on light and heavy soil (Phase 3)	–	–	–	–	120,000
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Evaluating single variety block plantings for Australian almond growers	–	–	–	–	100,000

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Uncontracted new R&D investments (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Moisture management to achieve quality nut product – Quality Program	–	–	–	–	70,000
Industry supply, productivity and sustainability	Support further efficiencies in Horizon 1 orchards and intensification of Horizon 2 and Horizon 3 orchards to better understand the integration of soil health, nutrition, tree architecture, plant physiology and orchard design	TBC	Establish a virtual experimental orchard	–	–	–	–	40,000
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Cover crops for soil health and productivity	–	–	–	–	60,000
Industry supply, productivity and sustainability	Generate residue, efficacy and crop safety data to support applications to the APVMA that seeks to gain, maintain or broaden access to priority uses for label registrations and/or minor use permits for crop protection needs*	TBC	Chemical Reference Guide (CRG)	–	–	–	–	100,000
Industry supply, productivity and sustainability	Support pollination security through robust honey bee health, pest and disease mitigation, and investigating alternative mechanical and crop solutions	TBC	National Bee Pest Surveillance Program: Transition Program	–	–	–	–	65,000
Industry supply, productivity and sustainability	Utilise relevant emerging technologies to improve production efficiency, harvest and postharvest systems and support the move from a ground-based recovery operation to integrated 'shake and catch', and product dehydration and storage	TBC	Increased uptake of AgTech	–	–	–	–	–
Industry supply, productivity and sustainability	Utilise relevant emerging technologies to improve production efficiency, harvest and postharvest systems and support the move from a ground-based recovery operation to integrated 'shake and catch', and product dehydration and storage	TBC	Ag engineering solutions to improve orchard productivity	–	–	–	–	–

Continued >>

Uncontracted new R&D investments (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Industry supply, productivity and sustainability	Continue to develop, enhance and implement almond industry IPDM options and strategies concentrating on practices that have the most impact on productivity and almond quality	TBC	Weed management to avoid resistance.	–	–	–	–	–
Industry supply, productivity and sustainability	Continue to develop, enhance and implement almond industry IPDM options and strategies concentrating on practices that have the most impact on productivity and almond quality	TBC	Producing Carmel variety budwood in a controlled environment to limit non-infectious bud failure in orchard trees	–	–	–	–	–
Industry supply, productivity and sustainability	Develop and evaluate superior scion varieties and rootstock varieties suitable to current and future climates and production systems (Horizon 2 and Horizon 3), and evaluate superior rootstock varieties and maintain high-health mother trees for varieties	TBC	Efficiently produce high health budwood for nurseries	–	–	–	–	–
Business insights	Develop in-season almond production forecasts that support industry strategic market planning strategies in domestic and export markets	TBC	Forecasting seasonal almond yields	–	–	–	–	–
Industry supply, productivity and sustainability	Provide regulatory support and co-ordination for crop protection regulatory activities with the potential to impact plant protection product access, both in Australia and internationally*	TBC	Xylella Co-ordinator	–	–	–	–	5,000
Business insights	Enabler	TBC	Across Hort impact assessment	–	–	–	–	6,507
Business insights	Use trade data to guide ongoing export	TBC	Horticulture Trade Data	–	–	–	–	–
Business insights	Development of a consumer insights strategy	MT21004	Behavioural Data	–	–	–	–	6,000
Business insights	Development of a consumer insights strategy	MT21003	Demand Spaces	–	–	–	–	30,835
Business insights	Development of a consumer insights strategy	MT21200	Usage and attitudes	–	–	–	–	15,726
Uncontracted new investment				–	–	–	–	1,189,068

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Uncontracted new R&D investments (continued)

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Available for new investment								7,880
CCR								577,686
Projected end balance								611,000

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- Impact assessments
- Trade data
- Crop protectant data.

RESEARCH AND DEVELOPMENT (CIF)

	\$
OPENING FUND BALANCE	67,293
Levy income	1,400,000
Levy collection costs	–
Australian government contribution	1,100,811
Other income	–
TOTAL INCOME	2,500,811

Contracted CIF projects

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
Demand creation	Collaborate with government and other industries to improve technical market access for current markets, and access to new, high value markets	AL17008	Market Access, Maintenance and Development Program	–	–	–	744,479	744,479
Demand creation	Inform health professionals and foodservice operators about the positive and distinctive health and nutrition attributes of Australian almonds	AI16007	Educating Health Professionals	–	–	–	200,000	200,000
Extension and capability	Deliver extension and communication capabilities and business insights to support positive change in the areas of productivity and demand	AL19000	Almond Centre of Excellence Experimental and Demonstration Orchard	–	–	–	711,598	711,598
Industry supply, productivity and sustainability	Utilise relevant emerging technologies to improve production efficiency, harvest and postharvest systems and support the move from a ground-based recovery operation to integrated 'shake and catch', and product dehydration and storage	AS17002	Demonstration of functional driverless tractor	–	–	–	246,713	246,713
Contracted investment				–	–	–	1,902,790	1,902,790

Uncontracted new CIF investments

Outcome	Strategy	Project code	Project title	Quarter 1 \$	Quarter 2 \$	Quarter 3 \$	Quarter 4 \$	Total \$
TBC	TBC		Brand Health Tracking	–	–	–	–	–
Uncontracted investment				–	–	–	–	–
Available for new investment								26,692
CCR								301,622
Projected end balance								337,000

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- Consumer behavioural data
- Consumer usage and attitudes, and brand health tracking data
- Impact assessments
- Trade data
- Crop protectant data.

Financial table definitions:

Opening fund balance: Forecast opening fund balance

Net levy income: Net levy income/revenue that is generated and collected by levy revenue services (LRS)

Australian Government contribution: Amount of contribution from the Australian Government on R&D levy-funded expenditure

Contracted investment: Estimated value of contracted projects

Uncontracted investment: Represents the estimated dollar value that is available for potential new investments for industry subject to industry advice

CCR: Cost to implement and manage R&D and marketing investment programs for each industry

Projected end balance: Forecast of the anticipated final position of each fund

Enabler: Investments that support the delivery of the SIP

Available for new investment: Uncontracted projects and the figure indicated in the SIP as available for new investment

Find out more information on the Almond Fund
at www.horticulture.com.au/almond/