

# 2006 Almond Annual Industry Report



Know-how for Horticulture™

## The year in review

The Australian almond industry is undergoing rapid expansion in both acreage and production driven by large scale investment.

A national survey undertaken by the Almond Board of Australia (ABA) in 2005 estimates total Australian almond acreage of 34,000 acres (13,759 hectares), with nearly 50 per cent of these plantings being less than three years old (non-bearing).

The 2005 crop was a record 16,500 tonnes (kernel) and production is expected to double within the next three years. By 2012 production could reach 50,000 tonnes driven by both existing non-bearing plantings coming into production and the continued high level plantings anticipated over the next few years.

The ABA is undertaking the necessary planning and resourcing to

## Industry snapshot 2005/06

Production (industry estimate): 16,500 tonnes kernel

Gross Value of Production: \$115 million (estimate)

Total almond R&D levy income (unmatched) = \$329,032

Value of R&D project investment (including VC and matching) = \$853,150

ensure the industry is best positioned to manage this future growth.

Domestic consumption of almonds continues to grow and remains the current focus of our industry funded marketing program, however export market development will be a priority in coming years.

Increased production levels have seen continued growth in levy collections, which have been supplemented by ABA investment in the R&D program through voluntary contributions.

In this financial year, the Almond IAC

met in September 2005, February and May 2006, with Dr Ben Robinson stepping into the role of IAC Chairman. Attention has been focused on reviewing current programs, streamlining arrangements and development of the Almond Industry Strategic Plan for 2006–2011.

Key R&D investment areas in 2005/06 are outlined in this report including optimising nutritional and irrigation requirements, the almond breeding program and investigation of the leaf tatter syndrome.

## Developing optimal nutritional and irrigation requirements for almonds

As the Australian almond industry rapidly expands, many new and important challenges must be addressed. These include the need to be internationally competitive in production and product quality, the need to maximise the value of limited resources, particularly land and

water and the need to be sustainable (particularly environmentally) in the long term. This project aims to address and have a positive effect on all these issues.

Fundamentally, this project encompasses a wide range of management disciplines and brings

them together in a unique way in order to provide almond trees with the best possible conditions for long-term production.

This project uses Israeli management technologies and the

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unique concept of 'optimisation' to drive production efficiencies to new levels. The project leader, Professor Raphael Assaf, a Scientific Director with the Volcani Centre, in conjunction with many of his colleagues has worked on and developed this concept over 40 years of intensive trial work.

The concept of optimisation revolves around 'spoon feeding' the trees with their daily needs in nutrition and water; assisting the trees at each important phenological stage through the seasonal cycle; supplying inputs in such a way that they are easily and readily taken up by the tree and providing stable and optimal nutritional and moisture levels in the soil so that the trees (canopy and root system) can adapt to these conditions.

The results and lessons learnt so far in the trial have been remarkable. World record yields have been obtained which are around 65 per cent greater than those obtained in good commercial orchards. These yields are double the levels aimed for in the almond industry's strategic plan in 1996.

Most importantly, the trial is identifying limits to almond orchard

performance that we previously did not know existed. For example, the nutrition levels and leaf mineral analysis results previously used as industry standards (and considered best practice) gave yields in the order of 2.5 tonnes kernel per hectare. These yields were considered good by world standards. We now realise these yields were a function of the inputs.

When the inputs are increased and optimised (right materials, concentrations, timing etc) the trees respond dramatically.

A critical outcome from the trial has been the development of a far better understanding of the efficiencies that can be achieved. Put simply, if you apply the inputs (particularly water and nutrition) correctly and in a way that availability and uptake by the trees is maximised, there is nothing left over to cause environmental problems.

Efficiencies in water use have been dramatically changed. Using a special 'pulse' technique, it is now possible to move drip irrigation water sideways or laterally. This dramatic change leads to a high level of control over the movement of water in the soil and prevents the loss of water vertically down through the soil

profile. Similar efficiencies are achieved with nutrition. For example, in one of the irrigation treatments which uses less than 70% of the water that is the industry 'norm', that treatment still manages to easily out-yield the best commercial orchards.

There has been a huge change in the industry expectations and performance over the last three years as this trial opens all our eyes to what is achievable with this technology.

**Project AL05002**

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## **Australian Government Priorities for Rural Research and Development**

As part of the Australian Government's commitment to rural research and development, horticulture industries can access matching Commonwealth funding through HAL for all research and development activities.

All R&D programs managed through HAL are driven by the strategic direction of horticulture industries and address the Australian Government's Priorities for Rural Research and Development.

These Government priorities and a breakdown of the number of projects and the value of projects that address each priority are available in HAL's annual report. This can be accessed at [www.horticulture.com.au](http://www.horticulture.com.au).



**Chris Bennett and Professor Raphael Assaf addressing delegates at the Annual Industry Conference Orchard Tour**

# Facilitating the development of the Australian almond industry

It is an exciting time for the rapidly expanding Australian almond industry, but before it can become a one of the world's biggest producers it must meet the new challenges arising in areas of technology, market access and support services.

Market access is an imperative as Australia's rapidly increasing rates of production will make it the second largest producer of almonds in the world within eight years.

Market access issues are being addressed through reviews and updates of standards involving quality assurance, maximum residue limits (MRLs), chemical registration and product safety.

The Australian almond industry currently has a crucial need for technology transfer programs, with

traditional field days and seminars insufficient for delivering the volume of information now required.

Specialist consultants have been engaged, and this year have developed an *Orchard Spray Guide*, *Microbiological Protocol Guidelines*, and undertaken extensive MRL trials to ensure products meet customer expectations.

Many of the components of the project are long term, particularly dealing with the need to develop optimal nutrition and irrigation practices for almonds.

As the number of orchards increase, a proportionate increase in support services is required such as further expanding the budwood repository, commercialising an important new rootstock (GF677), and developing

joint strategies with the pollination industry.

Work is also underway to ensure the industry has access to new and improved varieties to reduce the risks associated with the almost total dependence on the two favoured varieties, Nonpareil and Carmel. This will also provide a wide range of almond types to assist niche marketing and improve production efficiencies.

## Project AL05001

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## Australian almond breeding program

After almost a decade of research, superior new almond cultivars could soon be on their way to Australian growers.

The almond breeding program was developed to improve almond yield and quality, with the ultimate goal of delivering superior almonds for Australian and overseas markets.

This year, the breeding program began evaluating progeny from hybrid cultivars developed in 2001 and 2002.

The results have been encouraging, with new cultivars delivering improvements in yield, kernel size and kernel taste.

Eighteen superior cultivars have now been selected for second stage testing, which will begin later this year.

Another significant milestone for 2005 was the development of 34 new crosses using selections

from the program and imported cultivars.

Another 43 crosses are currently in development, with parents selected for their nut and tree characteristics, and self-fertility.

As a quality assurance measure, the program screens all breeding parents and selected progeny for the Prunus Necrotic Ringspot and Prune Dwarf viruses. This stringent screening policy will prevent virus-infected cultivars from being distributed to industry.

The breeding program is also constructing an almond genome map which will mark the genes that decide important traits like self-fertility, nut size and disease tolerance.

The genome map is based on a cross between Nonpareil, the major cultivar grown in Australia, and the French Lauranne cultivar, which is self-fertile.



2006 seedlings

Thanks to the development of a new technique to identify the genes that control self-fertility, it is now possible to test for this desired trait at the seedling stage.

## Project AL99008

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2005 progeny in greenhouse at Waite campus

# Angle Vale leaf tatter and defoliation

While the cause of the Angle Vale Leaf Tatter and Defoliation disorder (LTD) remains unknown, progress on its management is underway with the discovery of a chemical which delays its establishment and limits defoliation.

LTD continues to cause economic losses in almonds on the northern Adelaide Plains as a result of defoliation and loss of photosynthetic capacity, and bud and twig dieback. The yield losses occur as a direct result of bud death and indirectly as a result of affected trees having higher levels of sticktight nuts at harvest.

The first symptoms of LTD are yellow, translucent lesions randomly spread



Early signs of LTD



Leaf loss as a result of LTD

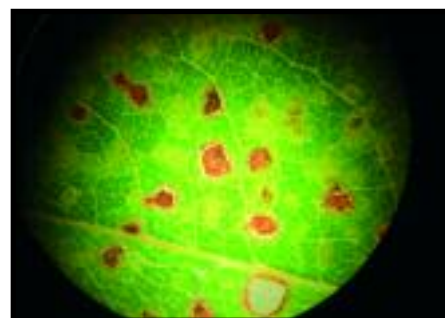
across the leaf blade. The leaves become tattered and shot-holed as the lesions develop necrotic centres, and eventually fall while still green.

In 2005/06 three trials were established to investigate LTD management. They compared current practices and products with those proven for almonds elsewhere.

There has been progress with the discovery of a chemical (BAS 51604F) which delays the establishment of LTD and minimises defoliation. Trees treated with this product on two occasions remained of healthy appearance until six weeks before harvest. All other fungicidal treatments successfully controlled the known fungal diseases of almonds but were ineffective on LTD.

The trials confirmed that late copper was not a cause of LTD and that canola oil at very high rates could cause short-lived LTD-like symptoms.

The failure of LTD to develop on feral trees still suggests a chemical-biological interaction may be involved. Fungal isolations revealed the consistent presence of *Alternaria* and *Cladosporium* spp. in necrotic lesions.



Early and advanced lesions under light microscope



Advanced LTD

Non pareil was confirmed as the earliest and most severely affected variety. While symptoms of LTD develop on young and old leaf tissue on all varieties, no symptoms have developed on young trees, suggesting LTD is not a nursery problem.

Graft transmissibility, pathogenicity, and more extensive fungicidal experimentation on field and greenhouse trees are being undertaken in the 2006/07 season to determine the cause of LTD and further define management strategies.

**Project AL05003**

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Scholefield Robinson Horticultural  
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# Almond Partnership Agreement 2005/06

The Almond Board of Australia (ABA) is the peak industry body for the Australian almond industry representing growers, processors and marketers. The ABA plays an active role in coordinating and communicating the direction, progress and outcomes of the industry R&D program.

With matched Government funding provided through HAL, the ABA performs a key role in encouraging industry communication and collaboration through many activities including:

- introduction of the ABA newsletter *In a Nutshell*
- field days and regional meetings
- inclusion of technical articles and industry news in the *Australian Nutgrower* journal
- development of the Australian Almond Industry Strategic Plan
- collection of industry statistics and
- hosting of the Annual Almond Industry Conference.

Benefits have also been derived this year by strengthening the ABA's structure and processes for communication between HAL, the ABA and the Almond IAC.

## Annual Almond Industry Conference

More than 130 people attended the Annual Conference held in November 2005 in the Riverland of South Australia. A professional and comprehensive program incorporated the Annual Almond Levy Payers Meeting, R&D and marketing presentations, orchard visits and the annual industry dinner.

Member for Chaffey, Karlene Maywald MP officially opened proceedings on day two of the



The Hon Karlene Maywald MP with members of the ABA Executive Committee at the annual conference

conference with a breakfast session addressing the topic of water trading and future availability.

## Australian Almond Industry Strategic Plan

A key focus in 2005/06 was development of the Australian Almond Industry Strategic Plan for 2006–2011. This document will provide direction for future activities and assist in prioritising key investment areas. Strategic planning is recognised as an ongoing process, requiring continual review and reassessment to ensure appropriateness and suitability in our ever-changing environment.

## Industry Statistics Collection Program

In response to the recognised need for more accurate and comprehensive Australian almond industry statistics, the ABA has embarked on an industry statistics collection program. Following a national grower survey, the 2005 Australian Almond Plantings Report was released in March 2006. Annual review and update will ensure this



Almond conference orchard tour

information remains current. Access to current and accurate information about our industry has enabled better planning, decision making and forecasting for the future.

Collection of Australian almond production and sales data is also being undertaken by the ABA, a summary of which will be presented at the Annual Industry Conference in November 2006.

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## Almond evaluation technical officer

The Almond evaluation technical officer provides support to develop new almond varieties that suit Australian growing conditions and developing markets. The officer also assists with trials to improve orchard productivity and performance while developing environmentally sustainable practices.

The majority of trees planted in 2003 as part of the breeding program have produced their first crop. The harvested nuts were evaluated and many rejected due to bitter taste or poor colour. However, other selections showed promise, possessing characteristics that best suit market requirements such as a sweet taste and light colour.

The trees planted in 2004 are on track to have their first evaluations and have exhibited exceptional growth due to the use of a drip system with a dedicated emitter per tree, providing accurate delivery of both water and nutrients. An additional 4000 selections are due for planting in September this year.

The irrigation and nutrition trial that was successfully conducted in 2006 has produced significantly higher yields in all six experimental treatments than the conventional practice treatment and industry averages.

Yields in the experimental treatments for the Nonpareil cultivar averaged 3900kg/ha while the conventional treatment averaged only 1144kg/ha.

This yield performance was achieved using a range of nutrition programs and water volumes. The Carmel cultivar showed similar results with 4602Kg/ha compared with the conventional practice treatment yielding 1999kg/ha. These figures, while down on 2004/05, have not been achieved anywhere else in the world.

One highlight of the trial was the performance of the low water treatment in which case the Nonpareil cultivar out performed the conventional practice treatment by 300 per cent. This result was achieved using almost 30 per cent

less water, demonstrating the efficiency of the application methodology used.

Significant effort has gone into soil moisture monitoring and soil nutritional sampling to ensure that drainage and leaching has been controlled. The results demonstrate the efficient use of water and nutrients by the plant with the much improved performances in all treatments producing some of the best quality and exceptional productivity figures in a year that industry noted was low yielding.

The variation between individual treatments is still to be analysed, however the experimental treatments have shown the potential for greatly improved productivity of the industry.

### Project AL05004

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## Almond program 2005/06

Project No	Title	Researcher / Contact	Organisation	Telephone	Email
AL05001	Facilitating the development of the Australian Almond Industry	Chris Bennett	Almond Board of Australia	08 8582 2055	<a href="mailto:cbennett@australionalmonds.com.au">cbennett@australionalmonds.com.au</a>
AL05002	Developing optimal nutritional and irrigation requirements for almonds	Chris Bennett	Almond Board of Australia	08 8582 2055	<a href="mailto:cbennett@australionalmonds.com.au">cbennett@australionalmonds.com.au</a>
AL05003	Angle Vale leaf tatter and defoliation	Prue McMichael	Scholefield Robinson Horticultural Services Pty Ltd	08 8373 2488	<a href="mailto:prue@srhs.com.au">prue@srhs.com.au</a>
AL05004	Almond evaluation technical officer	John Kennedy	Almond Board of Australia	08 8582 2055	<a href="mailto:jkennedy@australionalmonds.com.au">jkennedy@australionalmonds.com.au</a>
AL05900	Almond Partnership Agreement 2005/06	Julie Haslett	Almond Board of Australia	08 8582 2055	<a href="mailto:jhaslett@australionalmonds.com.au">jhaslett@australionalmonds.com.au</a>
AL05910	Partnership Industry Consultation (Milestone)	Julie Haslett	Almond Board of Australia	08 8582 2055	<a href="mailto:jhaslett@australionalmonds.com.au">jhaslett@australionalmonds.com.au</a>
AL99008	Australian almond breeding program	Margaret Sedgley	The University of New England	02 6773 2303	<a href="mailto:margaret.sedgley@une.edu.au">margaret.sedgley@une.edu.au</a>

# Across Industry Program

The almond industry contributes funding towards an across industry program that addresses issues affecting all of horticulture. Details of the current program are listed below. A full report of the program can be found at [www.horticulture.com.au/industry/acrossindustry.asp](http://www.horticulture.com.au/industry/acrossindustry.asp).

Project No	Title Budget	LOP Start	Project Completion	Project	Organisation	Researcher/ Contact
<b>AUSHORT</b>						
AH01015	Key genes for horticultural markets	\$2,409,090	2001/02	2006/07	CSIRO Plant Industry	Steve Swain 08 8303 8600
AH03002	Area wide management of fruit fly – Central Burnett	\$1,072,727	2003/04	2006/07	QLD Department of Primary Industries and Fisheries	Annice Lloyd 07 3896 9366
<b>Outcome 1: Enhance the efficiency, transparency, responsiveness and integrity of the supply chain for the total industry to provide clear market signals</b>						
AH04036	RPCs /Cartons /Packaging Standardisation – Market Interaction & Change Opportunity	\$22,866	2004/05	2005/06	Horticulture Australia Limited	Sarah Pennell 02 8295 2300
AH05007	Horticulture Commercialisation Casebook	\$30,000	2005/06	2005/06	CDI Pinnacle Management Pty Ltd	Shane Comiski 07 3217 6466
AH05018	Review of successful consumer satisfaction project	\$5,000	2005/06	2006/07	Horticulture Australia Limited	Wayne Prowse 02 8295 2300
AH04017	Initiatives post the review of the retail grocery industry code	\$50,986	2004/05	2005/06	Horticulture Australia Council	Stuart Swaddling 02 6273 9600
<b>Outcome 2: Maximise the health benefits of horticultural products in the eyes of consumers, influencers and government</b>						
AH03011	Promoting the health advantages of fruit and vegetables to increase their consumption	\$300,000	2003/04	2004/05	Horticulture Australia Limited	Sarah Pennell 02 8295 2300
AH05027	Ensure equivalence of imported product with Australian quality specifications and food safety and chemical residue requirements	\$50,000	2005/06	2005/06	Food Compliance Australia Pty Ltd	Ian Delaere 08 6242 1355
AH05002	Promoting the health advantages of fruit and vegetables to increase their consumption	\$150,000	2005/06	2005/06	Horticulture Australia Limited	Sarah Pennell 02 8295 2300
<b>Outcome 3: Position horticulture to compete in a globalised environment</b>						
AH04006	Horticulture gene technology communication	\$90,000	2004/05	2006/07	Agrifood Awareness Australia Limited	Paula Fitzgerald 02 6273 9535
AH05003	Coordination of market access for horticulture products	\$300,000	2005/06	2005/06	Horticulture Australia Limited	Stephen Winter 03 9832 0787
AH05023	Market Access Support Program	\$50,000	2005/06	2005/06	Australian Citrus Growers	Mark Chown 03 5023 6333
AH05016	Codex attendance	\$16,000	2005/06	2005/06	Horticulture Australia Limited	Richard Bennett 03 5825 3753
AH05017	Strategic review of industry development in horticulture	\$74,882	2005/06	2005/06	Concept Consulting Group Pty Ltd	Brian Ramsay 02 6294 2157
AH05030	Industry Development Review Implementation Plan	\$30,118	2005/06	2005/06	Concept Consulting Group Pty Ltd	Brian Ramsay 02 6294 2157
AH05019	Levies on imported products	\$9,840	2005/06	2005/06	p2p business solutions	Jenny Margetts 07 3311 2710
AH05024	Fruit fly workshop	\$70,000	2005/06	2005/06	Horticulture Australia Limited	Brad Wells 02 8295 2300
<b>Outcome 4: Achieve long-term viability and sustainability for Australian horticulture</b>						
AH03006	Plant Health Coordinator	\$209,200	2003/04	2003/04	Horticulture Australia Limited	Peter Merriman 03 9836 0865
AH03007	Coordination of the horticultural plant improvement programs	\$179,915	2003/04	2005/06	Horticulture Australia Limited	Paul Brennan 02 6688 0245
AH04007	Pesticide regulation coordinator	\$850,000	2004/05	2009/10	AKC Consulting Pty Ltd	Kevin Bodnaruk 02 9499 3833
AH04009	Coordination of minor use permits for horticulture	\$499,000	2004/05	2007/08	AgAware Consulting Pty Ltd	Peter Dal Santo 03 5439 5916
AH05009	Horticulture Water Initiative Phase 2 – water access for Australian horticulture	\$177,269	2005/06	2005/06	RM Consulting Group	Charles Thompson 03 5441 4821
AH05011	Review of key genes for horticulture	\$30,000	2005/06	2005/06	BiotechSmarts Consulting	Glenn Tong 03 9479 1698
AH05012	Economic evaluation of the biotechnology portfolio	\$75,000	2005/06	2005/06	Innovation Dynamics	Joan Dawes 02 9209 4233
AH05021	Horticulture's submission to "Ensuring a profitable and sustainable agriculture and food sector in Australia" white paper	\$13,600	2005/06	2005/06	Hassell & Associates	Jan Paul van Moort 02 9241 5655
AH05026	Horticulture's submission to "Ensuring a profitable and sustainable agriculture and food sector in Australia" white paper – Stage II	\$55,950	2005/06	2005/06	Hassell & Associates	Jan Paul van Moort 02 9241 5655
AH05028	Inquiry into Pacific region seasonal contract labour	\$20,000	2005/06	2005/06	George Brownbill Consulting Pty Ltd	George Brownbill 02 6162 1905
AH05029	Review of the Horticulture Water Initiative Program (AH05009)	\$14,600	2005/06	2005/06	Scholefield Robinson Horticultural Services Pty Ltd	Peter Scholefield 08 8373 2488
AH04004	Industry Management Committee Chair and Industry Representative expenses	\$20,000	2004/05	2005/06	Horticulture Australia Limited	Sarah Pennell 02 8295 2300
AH04011	Australia's farm-dependent economy – measuring the significance of agriculture to Australia's economy	\$40,000	2004/05	2005/06	Australian Farm Institute Ltd	Mick Keogh 02 9690 1388
AH04031	IMC Project Advisory Committee expenses (AH04007/AH04009)	\$2,150	2004/05	2005/06	Horticulture Australia Limited	Brad Wells 02 8295 2300

# Nuts for Life in 2005/06

Nuts for Life made great progress in the last financial year with continued promotional activity targeted at health professionals and consumers and the commissioning of additional resources.

The aim of the marketing effort over the last 12 months has been to:

- Further decrease the misconceptions surrounding tree nuts and health, particularly with health professionals.
- Continue raising the awareness of the health benefits of tree nuts.
- Further increase the frequency that health professionals recommend tree nuts to their patients and clients.
- Increase tree nut consumption.

In 2004/5 the volume of nut consumption in Australia rose by 10 per cent and dollar value rose by 30 per cent.

An external evaluation of the Nuts for Life campaign has also confirmed that it continues to be a worthwhile investment for the nut industry and the Australian Government through matching funds via HAL.



## Health professionals program

Following the release of the Draft Health Claims Standard in 2005, Nuts for Life liaised with HAL, the Dietitians Association of Australia and the National Heart Foundation and provided a thorough review of the issues to Food Standards Australia New Zealand (FSANZ).

Nuts for Life was also invited with HAL to attend a meeting in Canberra with the FSANZ team to discuss and contribute comments on the issues that nuts, fruits and vegetables face with the draft standard. A further draft will be developed by the end of 2006.

Nuts for Life participated in nine health professional conferences reaching 8,000 professionals with nut samples and/or scientific information via exhibitions and inserts. These conferences allowed Nuts for Life to provide health professionals with specifically requested information on the role of nuts in weight management, with 5,000 copies of this new resource being distributed.

The *Role of Nuts in Health* brochure and the ready reckoners continue to be popular, with 15,000 of each distributed via conference satchels, trade exhibitions, website, direct mail and Samples Plus.

## Consumer program

Consumer market research was undertaken in 2005/06 with the aim to further understand our key target audience, women aged 25–54, who are health conscious but infrequent nut users, to gain a deeper understanding of the beliefs and perceptions that inhibit their regular consumption of tree nuts.



The main findings were:

- Most consumers did not eat nuts most days a week because they did not know they needed to.
- Consumers need to be educated about the quantity and frequency of snacking on nuts that was beneficial to health.
- 96% said they eat nuts because they enjoy the taste but regular consumption could be seen as a “chore”. Taste and enjoyment should be a focus to overcome this.
- The majority had not heard that eating a handful of nuts five times a week lowers blood cholesterol and they needed proven evidence on this claim.
- Linking nuts with olive oil and fish for health benefits proved positive.

This information will help shape future advertising and PR consumer campaigns.

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# Financial Report (Unaudited)

## Almond Investment Summary

Year Ended 30 June 2006

	Marketing 2005/2006	R&D 2005/2006	Combined 2005/2006
Funds available 1 July 2005		79,615	79,615
<b>INCOME</b>			
Levies Received		329,032	329,032
Commonwealth Contributions		205,596	205,596
Other Income		7,975	7,975
<b>Total Income</b>	<b>0</b>	<b>542,603</b>	<b>542,603</b>
<b>Budget</b>		<b>413,085</b>	<b>413,085</b>
<b>Variance to Budget</b>	<b>0</b>	<b>129,518</b>	<b>129,518</b>
<b>PROGRAM INVESTMENT</b>			
Levy Programs		351,374	351,374
Service Delivery Programs by HAL		59,818	59,818
Across Industry Funding		14,960	14,960
Levy Collection Costs		4,766	4,766
<b>Total Investment</b>	<b>0</b>	<b>430,918</b>	<b>430,918</b>
<b>Budget</b>		<b>396,557</b>	<b>396,557</b>
<b>Variance to Budget</b>	<b>0</b>	<b>(34,361)</b>	<b>(34,361)</b>
Annual Surplus/Deficit	0	111,685	111,685
<b>Funds available 30 June 2006</b>	<b>0</b>	<b>191,300</b>	<b>191,300</b>

## Almond Industry Advisory Committee

Dr Ben Robinson (Chair)  
 Peter Freeman  
 Ben Haslett  
 Graham Johns  
 Brent Kaiser  
 Andrew Lacey  
 Paul Martin  
 Vic Szabo  
 Max Tolson  
 Chris Bennett (ABA IDM)  
 Julie Haslett (ABA EO)



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