



ALMOND BOARD
OF AUSTRALIA



Australian Almond Industry

Peter Hayes AM, Independent Chair, Almond Board of Australia

Tim Jackson, Chief Executive Officer, Almond Board of Australia



Why invest in the Australian Almond Industry?

- **Significant domestic and global demand**
 - *Australia as an important, minor player at #2 in exports*
 - *Counter-seasonal to USA and Spain, and potentially a seasonal buffer to supply*
- **Non/low perishability; allows management of supply to market**
- **High crop and by-stream product value-low/no waste; value recovered in,**
 - *Kernels or inshell*
 - *Cracked or damaged kernels for plant based ingredients: almond milk, almond meal, slices, slivered, oil, etc.*
 - *Hulls and shells to co-generation, stockfeed, fertiliser*

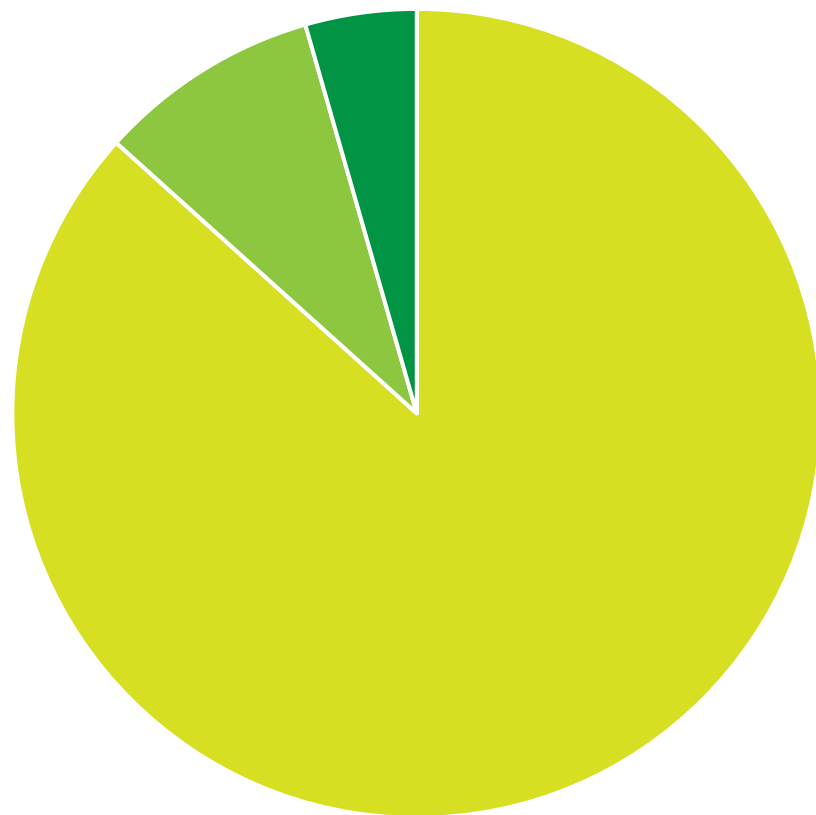


Why invest in the Australian Almond Industry?

- **Good returns on resource inputs**
 - *Return/Ml water, \$1733 /Ml, varying by*
 - *Region*
 - *Season*
- **Relative to much of horticulture, high mechanisation and high skills workforce**
- **Moderate seasonal risk; frost, pollination challenges noted**

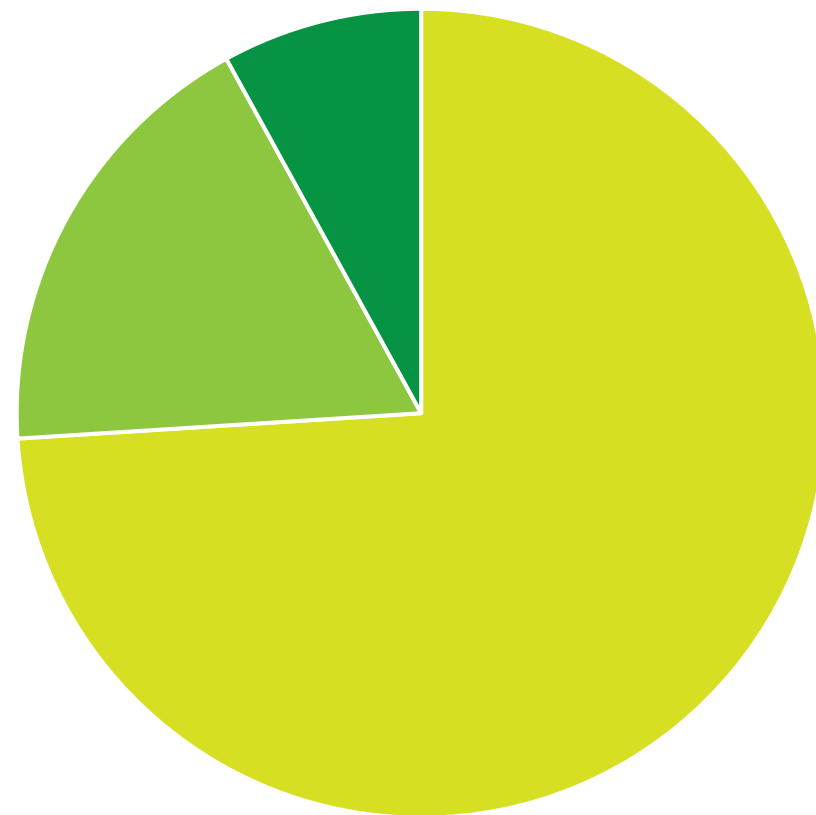
Industry Plantings

Global Almond Production



■ California 78% ■ Australia 8% ■ Spain 4%

Australian Nut Industry



■ Almonds 74% ■ Macadamias 18% ■ Other 8%



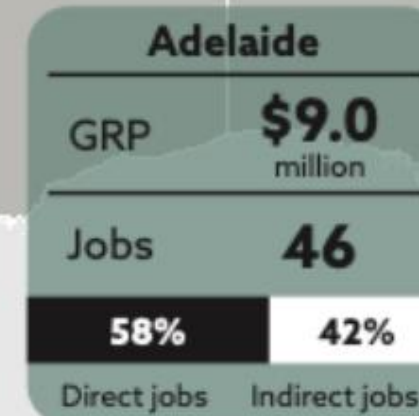
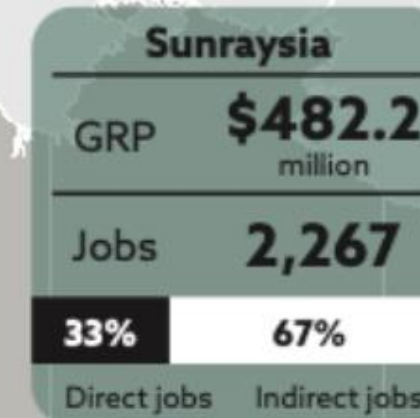
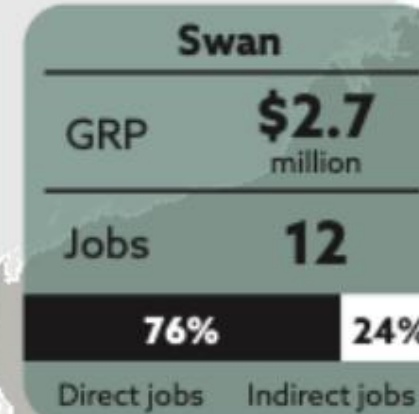
Industry Value 2019/20

\$1.633 Billion

Economic Contribution of the Almond Industry

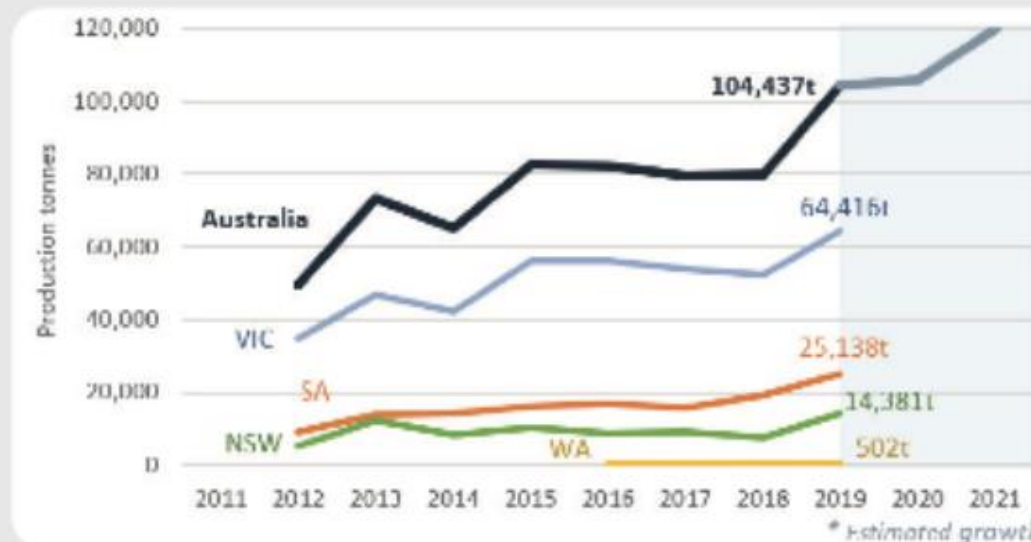
Australia's almond industry
GDP contribution **\$1.633**
billion

Jobs across the
whole industry **9,560**



Since 2000, the total area planted with almonds increased by
3,500 ha to 53,014 ha in 2019/20

Almond production over time:



Dollars generated per
ML water used
\$2,298

RMCG

Where?

Growing Regions

- Two thirds of Australian almond properties are 100 hectares or less.

Major planting regions

- Riverland, South Australia 19%
- Sunraysia, Victoria 56%
- Riverina, New South Wales 25%



In a nutshell

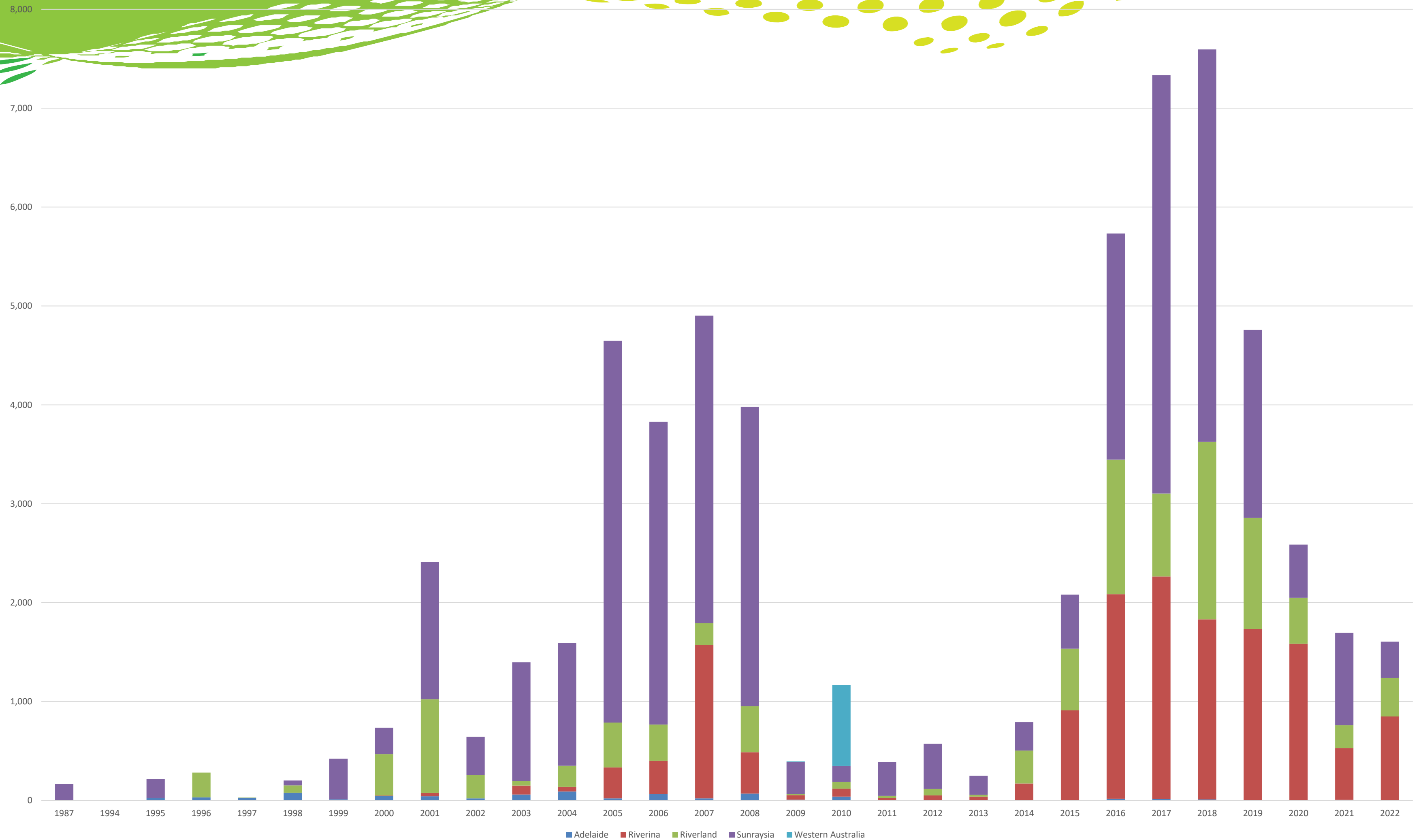
Australian almond industry plantings

2000-01: 3,500 ha

2022-23: 62,412 ha - LandIQ

2026-27: 70,000 ha?


Land IQ plantings data: All regions



Recent plantings by ha per region

<i>Region</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>Grand Total</i>
Adelaide	2	19	14	10	5	1	6	0	715
Riverina	910	2,067	2,251	1,820	1,729	1,584	523	849	14,938
Riverland	623	1,361	838	1,796	1,124	465	232	389	11,039
Sunraysia	546	2,286	4,231	3,968	1,904	538	934	367	34,897
WA	0	0	0	0	0	0	0	0	822
Grand Total	2,081	5,732	7,334	7,594	4,761	2,588	1,695	1,605	62,412
%	3.3%	9.2%	11.8%	12.2%	7.6%	4.1%	2.7%	2.6%	

40.8% of total plantings



<u>Age Profile</u>	<u>Hectares</u>	<u>%</u>
1-3 Years	5,888.69	9%
4-10 Years	28,543.28	46%
11-20 Years	22,868.50	37%
21-25 Years	4,417.69	7%
>25 Years	695.53	1%
TOTAL	62,413.69	100%

Production forecast by region

Forecast tonnage by region	
Adelaide	2,000
Riverina	48,000
Riverland	35,200
Sunraysia	112,000
Western Australia	2,000
Grand Total existing plantings	199,200
<i>Plus known potential extras</i>	
Riverland	8,000
Riverina	6,400
Goulburn Valley	6,400
Estimate by 2032	220,000

* Tonnage based on industry average of 3.2mt

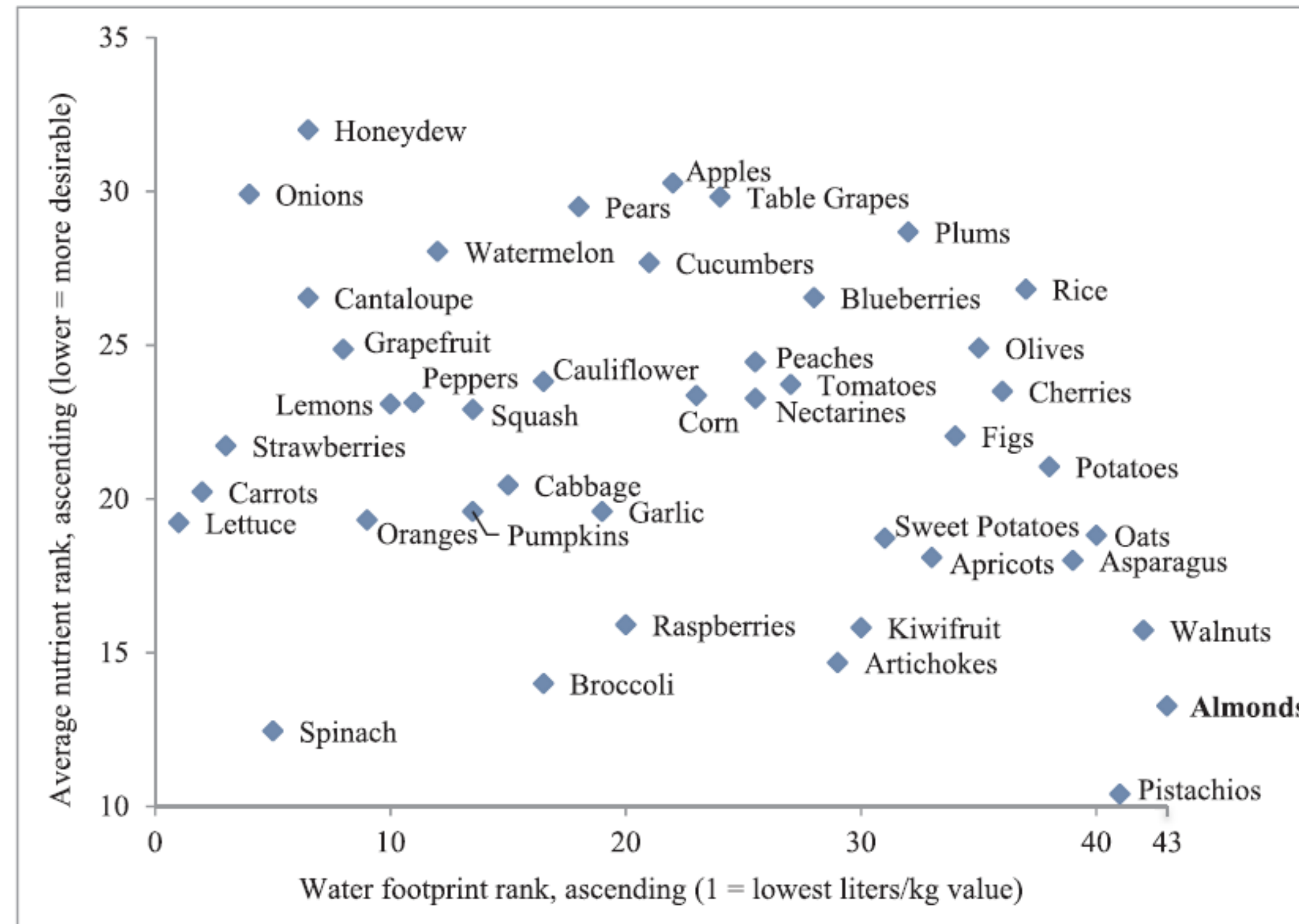
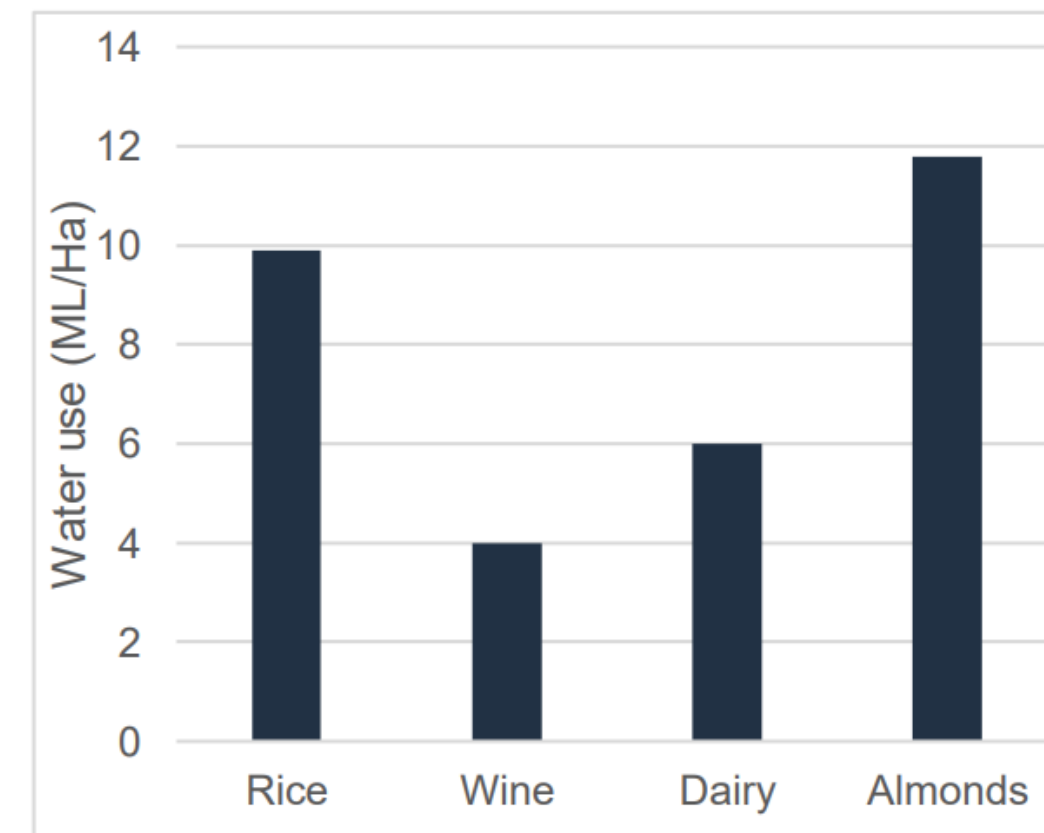
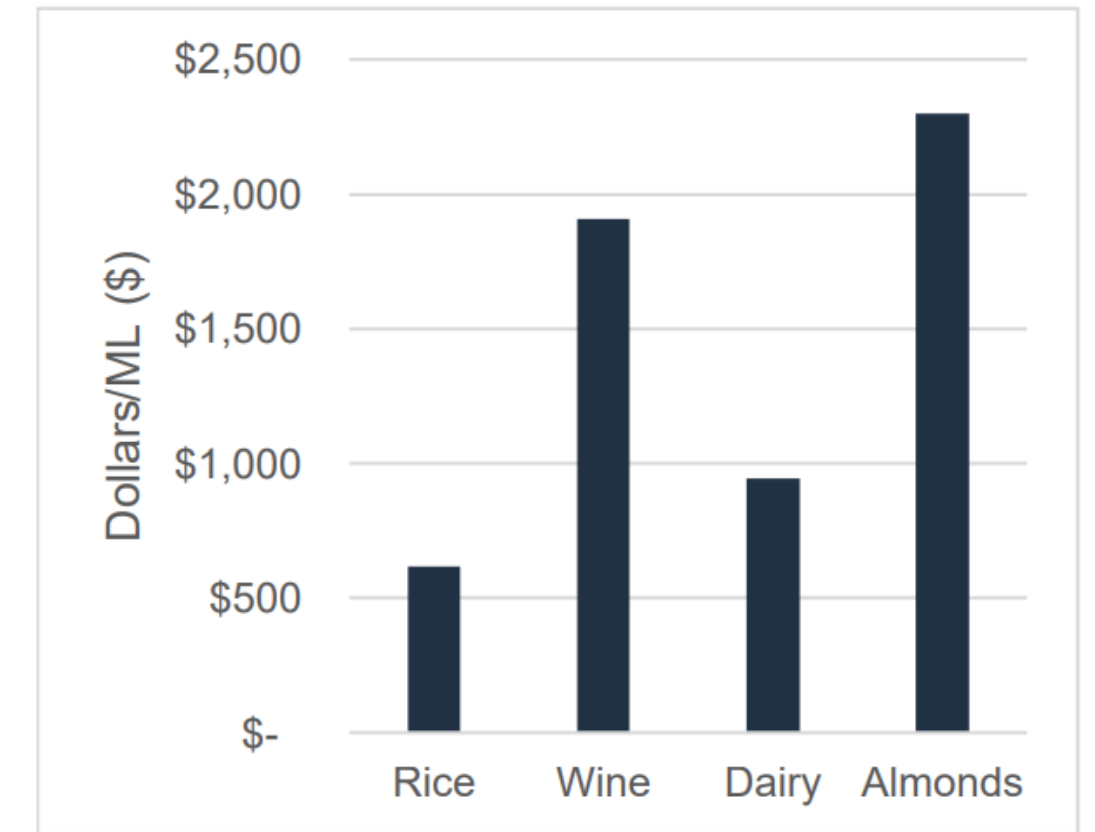
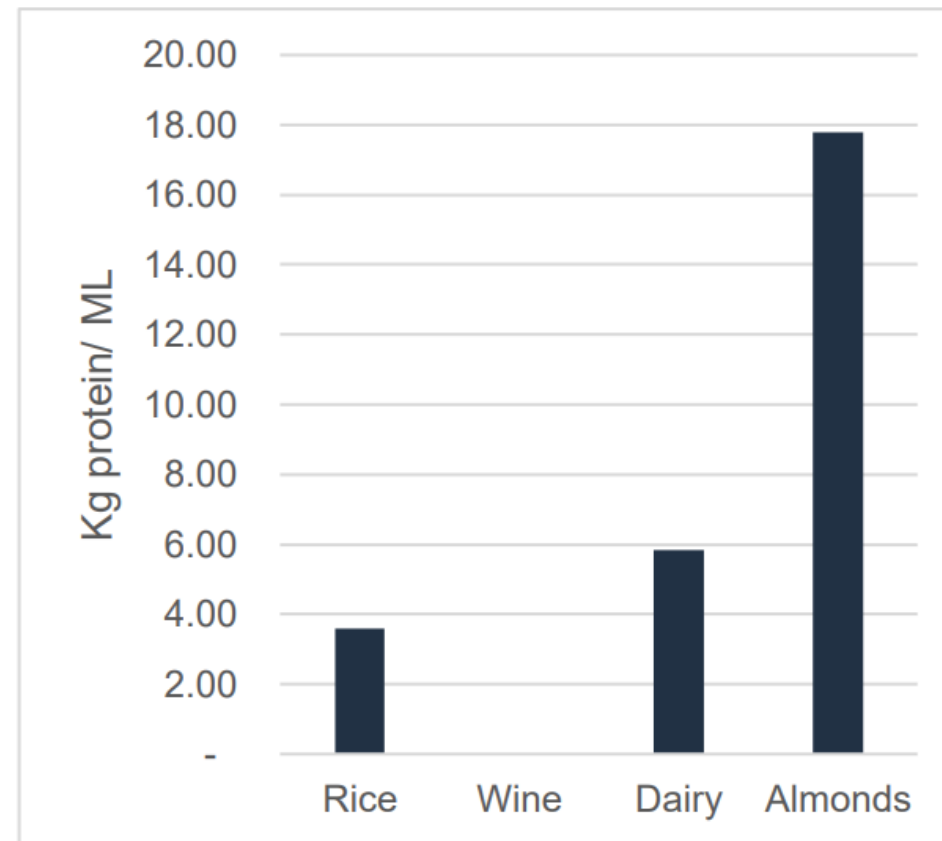
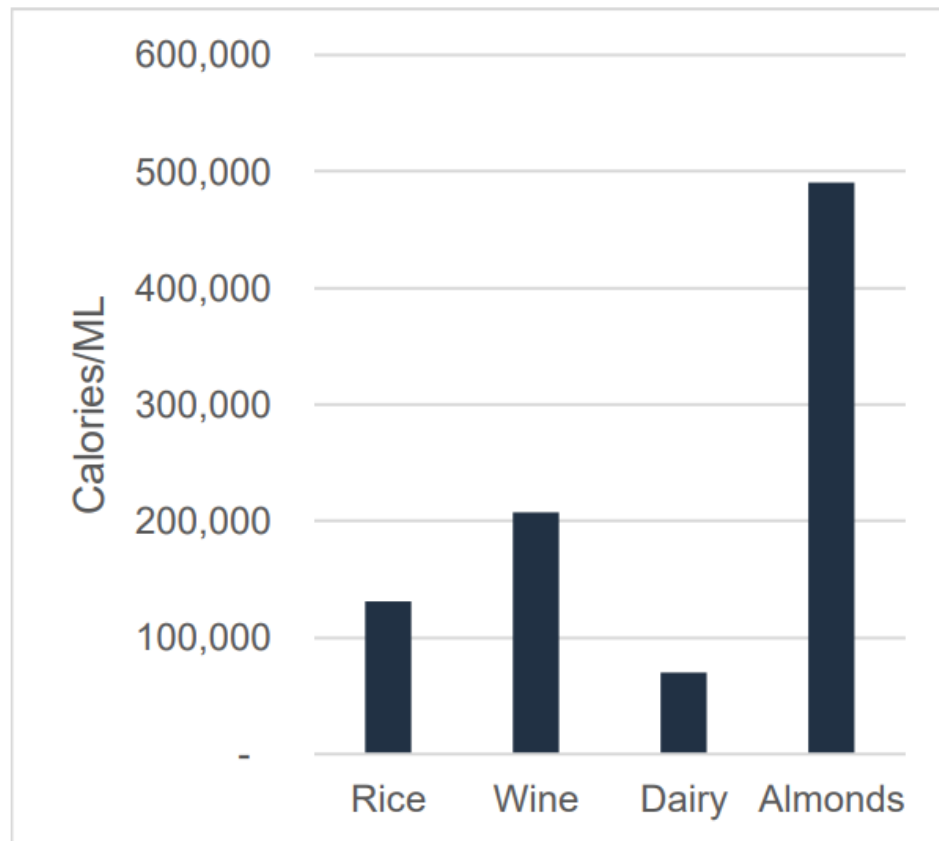


Fig. 3. Major California crops ranked by water footprint values (horizontal axis) and average rank of 11 nutrient categories (vertical axis; note that the minimum value is 10). “Almonds” is bolded.

Again---What is a Relevant Measure?



Almond industry data obtained from surveyed data and Almond Board of Australia – almond insights – 2019–20.
 Water use values (rice 9ML/ha, and wine 4ML/ha) based on Australian bureau of statistics, (2018) water use on Australian farms, report. <https://www.abs.gov.au/statistics/industry/agriculture/water-use-australian-farms/latest-release>. Value of agricultural goods sourced from Australian bureau of statistics, (2018) Value of agricultural commodities produced Australia. <https://www.abs.gov.au/statistics/industry/agriculture/value-agricultural-commodities-produced-australia/latest-release> and <https://www.wineaustralia.com/market-insights/national-vintage-report#:~:text=The%20average%20value%20across%20all,value%20of%20%24663%20per%20tonne>. (rice \$500/t, 12t/ha and wine \$690/ha, 11t/ha).
 Nutritional values obtained from Clune, S. Crossin, E. Verghese (2016) Systematic review of greenhouse gas emissions for different fresh food categories, Journal of cleaner production.
 Dairy water use values based on <http://www.clw.csiro.au/publications/waterforahealthycountry/2010/wfhc-dairy-water-use-australia.pdf> and <https://agriculture.vic.gov.au/about/agriculture-in-victoria/dairy-farm-monitor-project>. These calculations used an average of 6ML of water use per hectare, production value of 0.8 tonnes milk solids/ha and a \$7 per kg/MS price.

Note: Data shall vary by market conditions, season and region

Snapshot

2023 crop down 30% or 47,000 tonnes

Poor weather

Terrible pollination

Flooding impact water quality

Biggest shortfall in industry's history

Global prices low and flat

Cost of production high increased

Uncertainty over water security due to buyback plans

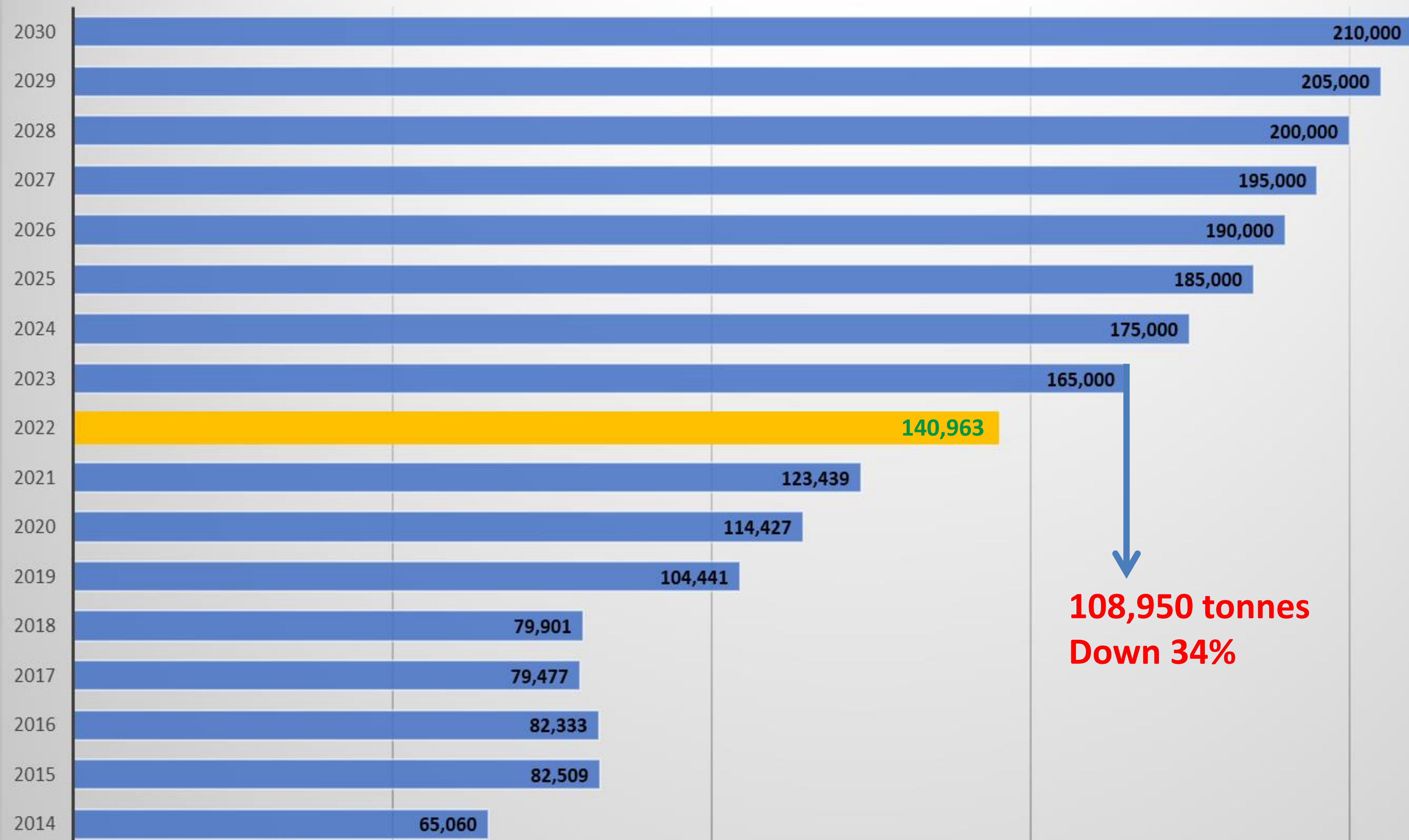
Our key issues:

- Cost of production
- Low returns
- On-farm storage and drying
- Chemical toolkit
- Pollination
- Water surety
- Processing capacity
- Disease pressures
- Pest pressures
- Labour – skilled and unskilled
- Sustainability verification
- Growing in Riverina v Rest of Industry

On the horizon:

1. Interstate movement – Varroa not over
2. Biosecurity charges to growers
3. Murray Darling Basin Plan – reduced volume available?
4. Barmah Choke – water availability in summer
5. Bumper crops next year
6. Plant based innovation

Australian almond production tonnage



**108,950 tonnes
Down 34%**

Bee requirements

Australian almond orchard bee needs in August:

2000-01: 17,500 hives

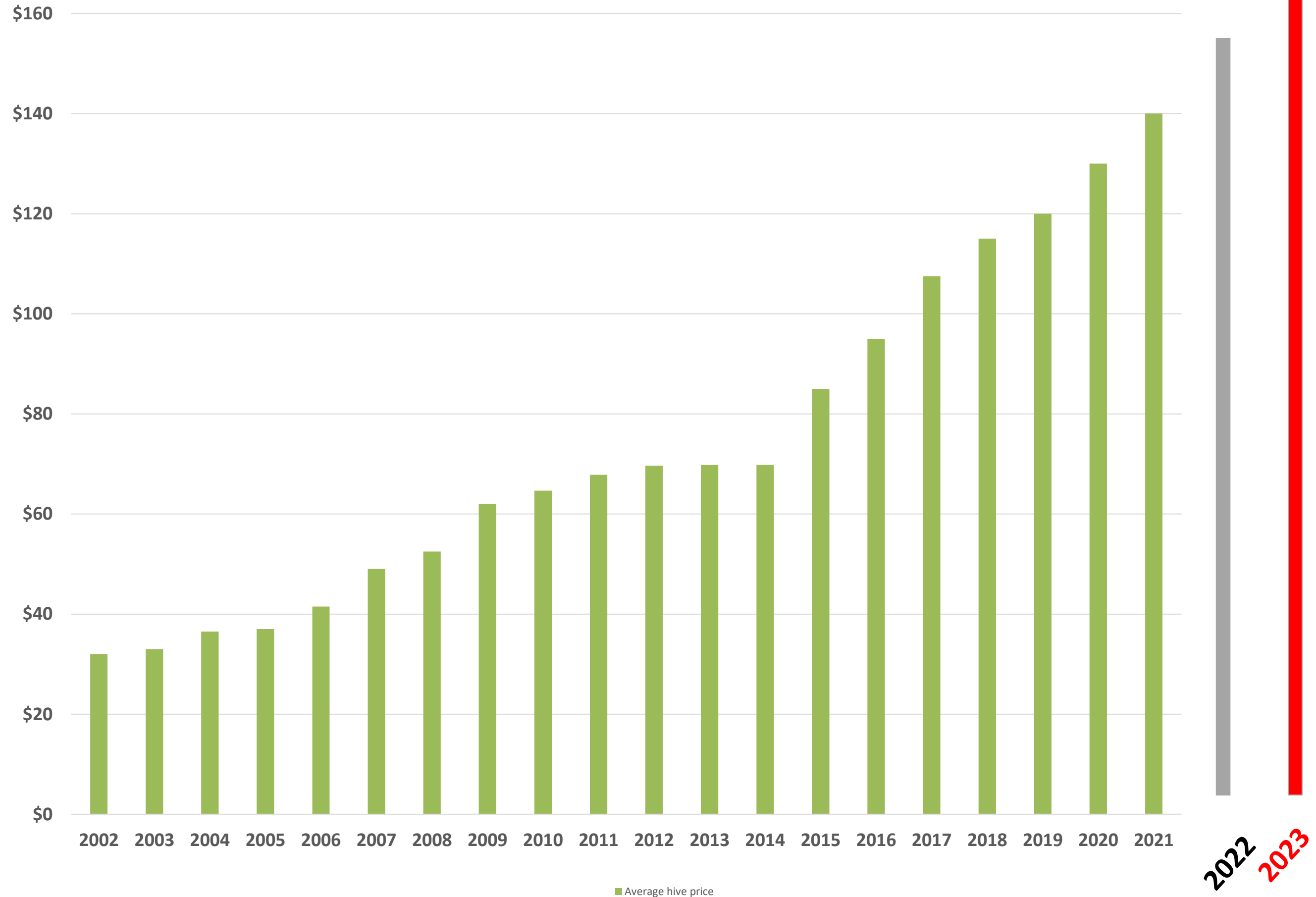
2021-22: 250,000 hives

2026-27? 375,000 hives

Costs

Hive price – 2002 to 2023

Increase in hive price 338%
Average annual increase of 18%



What does the future hold?

- **Transition to Management approved**
- EPPRD signatories - \$millions
- **2022 almond pollination at least 80,000 hives short**
- Interstate movement concerns for 2024
- **New biosecurity tax– Equity plea**

Future production in Australia

- Investment in production capacity
- Replanting & Plantings continuing
- Upgrading technology
- Water availability
 - Assured for next season
 - Recognize longer-term issues
 - Buybacks
 - Deliverability
- Dry weather forecast – El Nino
- Urban supply chain education



Almondco Australia Ltd
Sturt Highway, PO Box 1744,
Renmark SA 5341

Ph: +61 8 8586 8800
Fax: +61 8 8595 1559

Enquiries:
sales@almondco.com.au
www.almondco.com.au



Bright Light Agribusiness Pty Ltd
Unit 7/435 Williamstown Road, PO Box 101
Port Melbourne VIC 3207

Ph: (03) 9674 8188

Enquiries:
sales@brightlightagri.com



Nut Producers Australia Ltd
249 Wright Street,
Adelaide SA 5000

Ph: +61 8 8231 7011
Fax: +61 8 8231 2177

Enquiries:
nuts@nutproducers.com.au
www.nutproducers.com.au



Olam Orchards Australia
Level 4/437 St Kilda Road,
Melbourne VIC 3004

Enquiries:
Ph: +61 3 9868 3400
www.olamonline.com



SELECT HARVESTS

Select Harvests Ltd
Level 3, Building 7, Botanicca Corporate Park
570-588 Swan Street, Richmond Vic 3121

Ph: +61 3 9474 3544
Fax: +61 3 9474 3588

Enquiries:
info@selectharvests.com.au
www.selectharvests.com.au

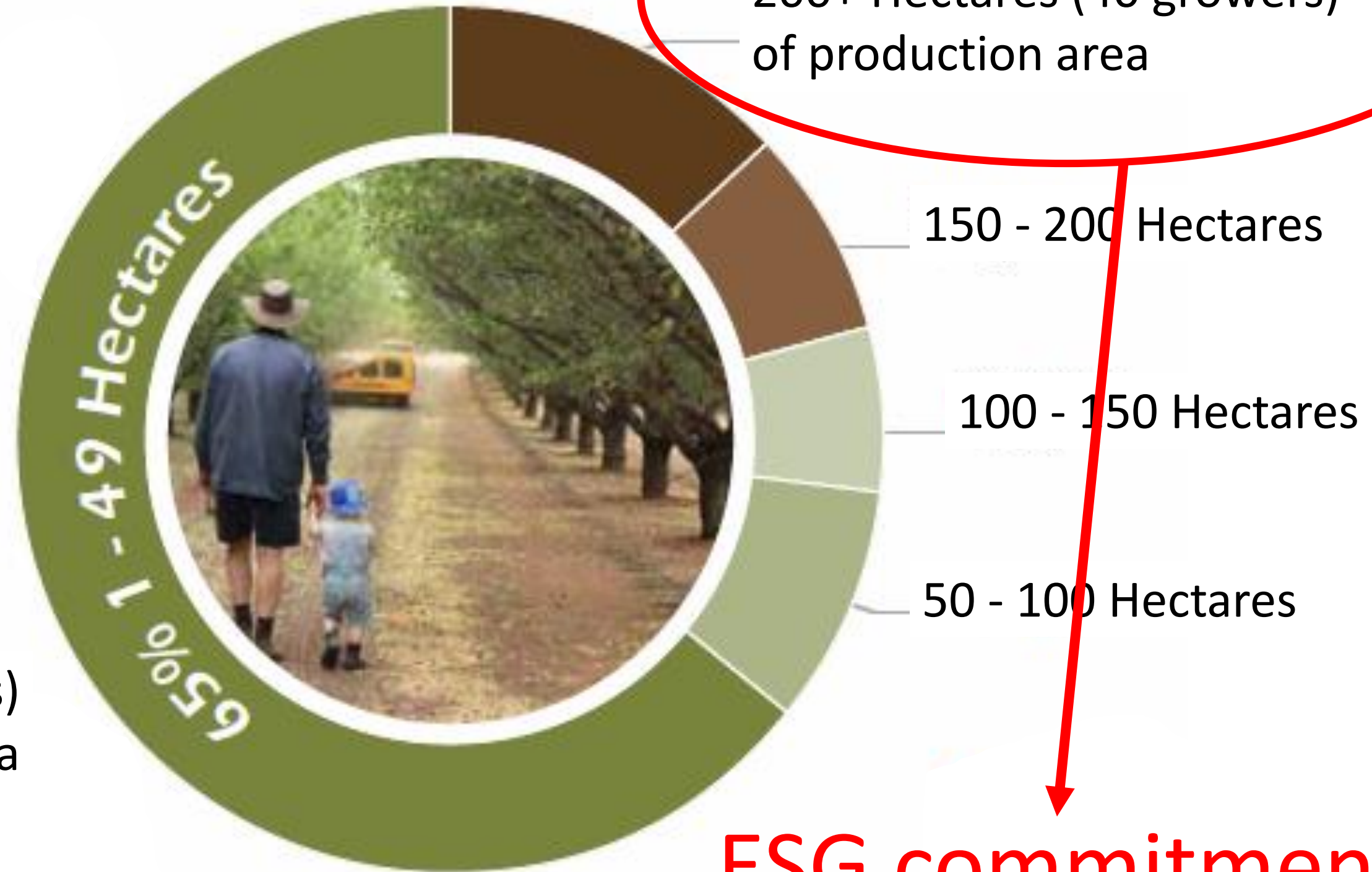
Quality Improvement & Sustainability

- Industry sustainability framework
- Hort 360
- Social, community and economic contribution
- Proper stewardship of use of the planet and its resources.
- Driving towards Zero Waste.
- Global trend toward compulsory accreditation.
- New certification obligations likely



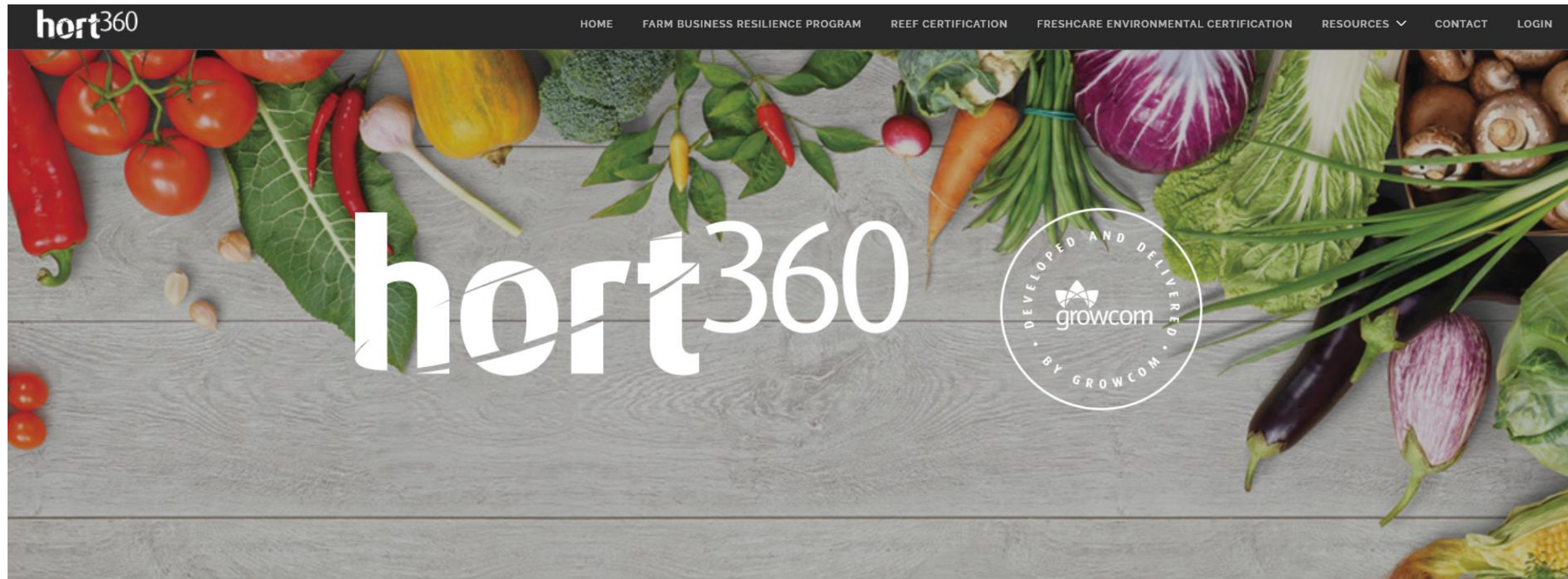
BMP = ESG

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 - Second level
 - Third level
 - Fourth level
 - Fifth level



less than 50 Hectares (110 growers)
= 3% of production area

Resources



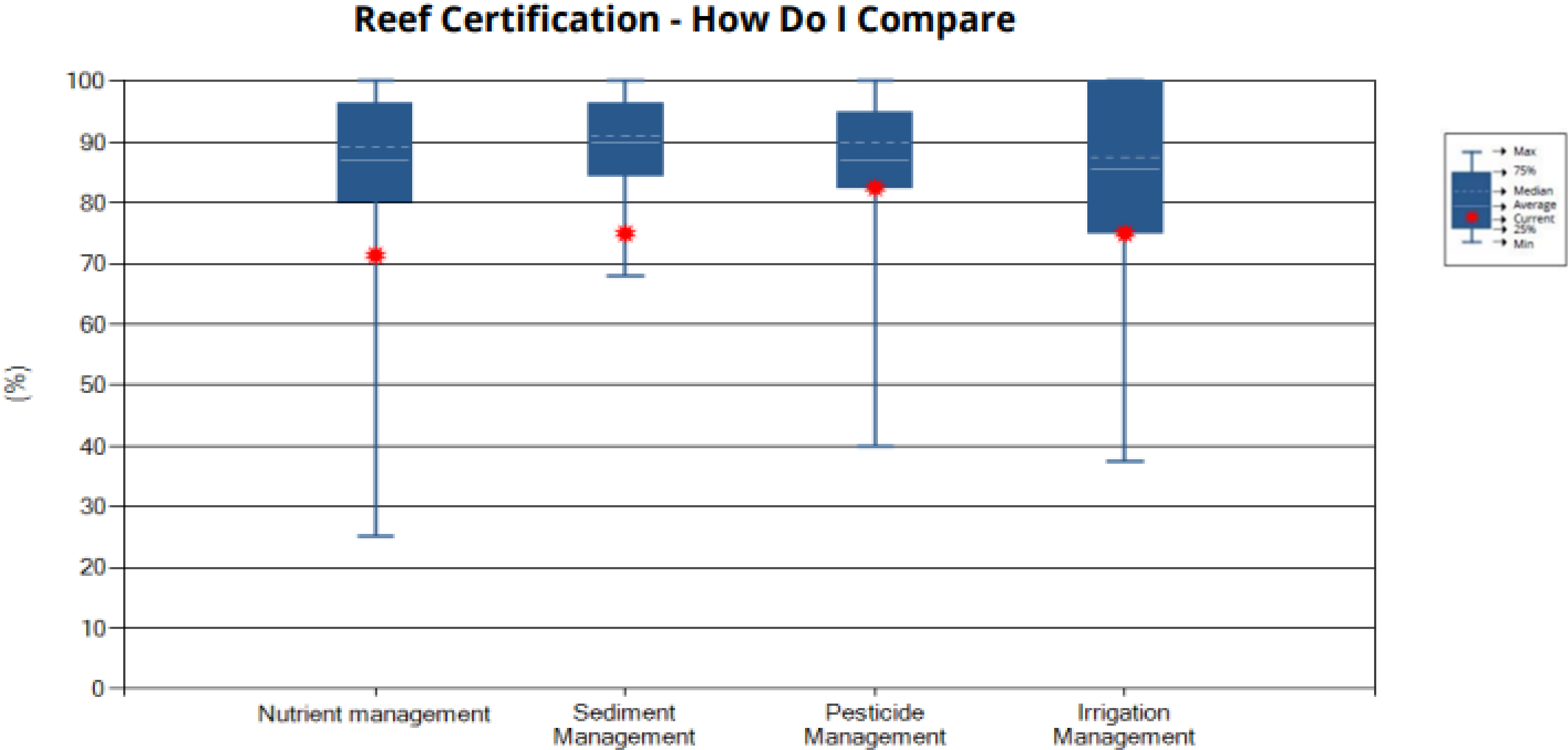
www.hort360.com.au

The best management practice program for horticulture

Hort360 currently operates a website containing various items of information

These relate to program delivery and the resource collection

Data Output example



Graph: Grower Peer to Peer, is a collation of grower reef certification scores, individual grower is represented by red star, is provided to individual growers on completion of a module within their report

Health Wellness



- Improve cognitive function
- Improves recovery
- Reduces risk of obesity
- Reduce risk of diabetes
- Improves heart health
- Protein source
- Vitamin E - antioxidants
- Improves skin
- Gluten free
- High in fibre

