

# Australian Almond Conference

Adelaide 11th October 2022

Paul Thompson

Select Harvests MD



SELECT HARVESTS



# Disclaimer and basis of preparation

*This presentation is provided for information purposes only and has been prepared using information provided by the company. The information contained in this presentation is not intended to be relied upon as advice to investors and does not take into account the investment objectives, financial situation or needs of any particular investor. Investors should consider their own individual investment and financial circumstances in relation to any investment decision.*

*Certain statements contained in this presentation may constitute forward-looking statements or statements about future matters that are based upon information known and assumptions made as of the date of this presentation. These statements are subject to risks and uncertainties. Actual results may differ materially from any future results or performance expressed, predicted or implied by the statements contained in this presentation.*

*The Select Harvests Limited financial statements are prepared in accordance with Australian Accounting Standards, other authoritative pronouncements of the Australian Accounting Standards Board, Urgent Issues Group Interpretations and the Corporations Act 2001. This includes application of AASB 141 Agriculture in accounting for the current year almond crop, which is classified as a biological asset. In applying this standard to determine the value of the current year crop, the Company makes various assumptions at the balance date as the selling price of the crop can only be estimated and the actual crop yield will not be known until it is completely processed and sold. The resulting accounting estimates will, by definition, seldom equal the related actual results, and have a risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year.*

*This presentation has been approved by the Board of Select Harvests.*



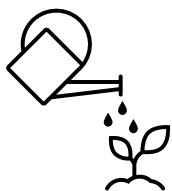
SELECT HARVESTS



# Select Harvests commitment

We have a responsibility to respond to changing community values and expectations.

## Water stewardship



**Expectation:** minimise water use.

**Commitment:** we will manage our water use through irrigation practices that result in productive and efficient use of water.

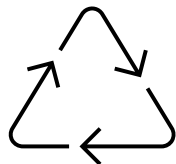
## Air and land stewardship



**Expectation:** protect the natural environment.

**Commitment:** we will be responsible custodians of our land and air resources. We will create no damage and protect our natural environment.

## Reducing and recycling waste



**Expectation:** minimise waste.

**Commitment:** we will reduce waste across our business, including zero biomass waste to landfill. We will strive for 100% recycled and/or recyclable packaging.

## Carbon neutrality



**Expectation:** carbon neutral by 2050 or earlier.

**Commitment:** we will develop a plan to be carbon neutral by 2050 or earlier. We will maximise opportunities to make a positive impact through almond growing and processing.

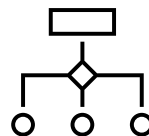
## Internal and external stakeholders



**Expectation:** model regional citizen.

**Commitment:** we will work with suppliers, clients, communities, and employees to understand and meet their expectations.

## Implementation and oversight



**Expectation:** there is appropriate oversight.

**Commitment:** we will operate legally and ethically and provide appropriate transparency. Our business will continue to be overseen by an independent Board.

Today the major community focus is on: Gender, Carbon and Water



SELECT HARVESTS



# What is our story?



We do more than just grow Almonds

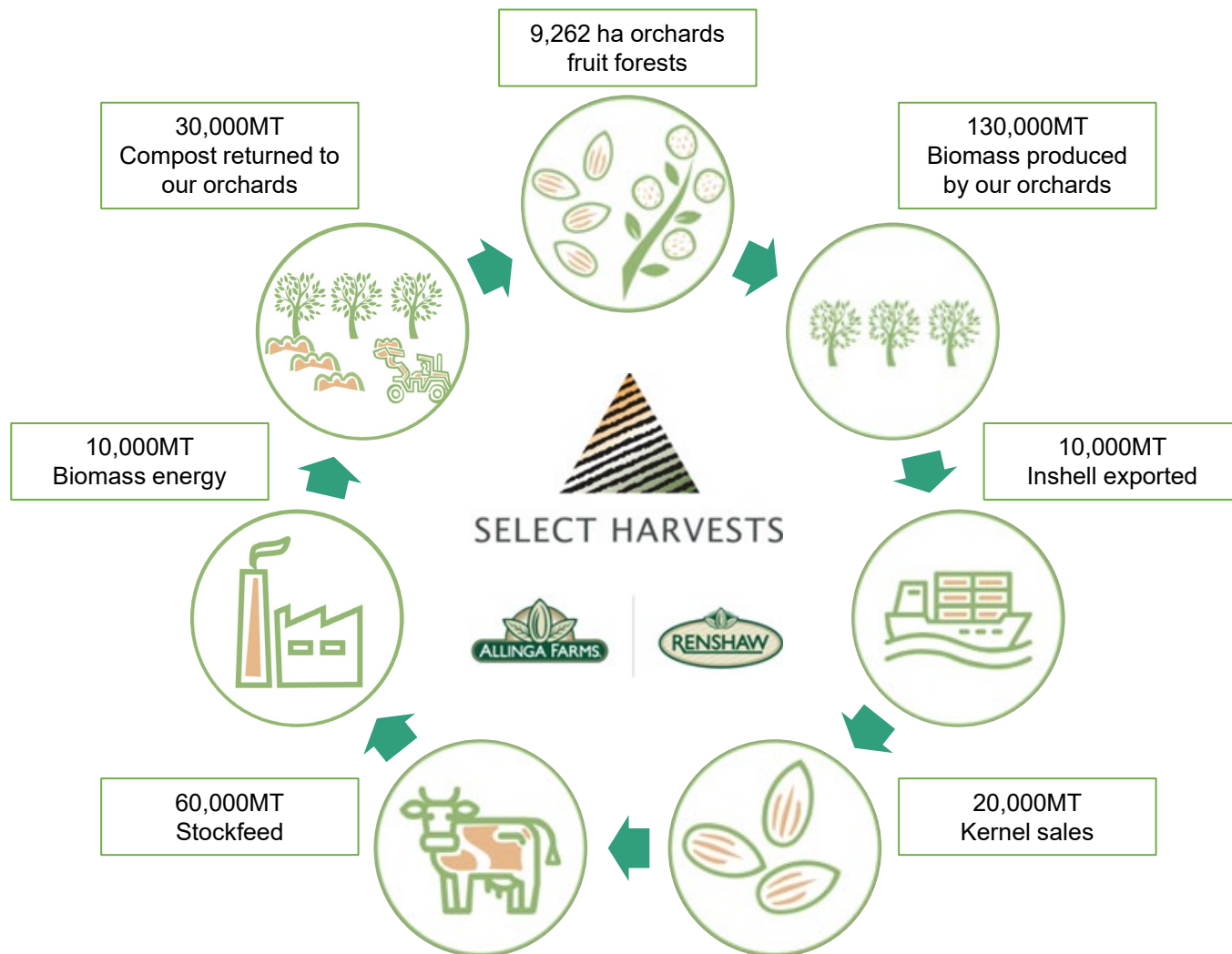


SELECT HARVESTS



# Growing almonds in a closed loop

Maximizing our resource use and financial return by utilizing everything we grow.



- Almond trees in California absorb more CO<sub>2</sub> than they produce during their lifetime<sup>1</sup>
- Almonds provide a very high nutritional value, ranking the highest amongst all crops<sup>2</sup>
- The direct economic benefits of almond production based on market sales are larger than any other crops<sup>3</sup>
- Research is being undertaken in Australia to establish Australian Almond Industry position.

1: Marvinney, E., Kendall, A. A scalable and spatiotemporally resolved agricultural life cycle assessment of California almonds. Int J Life Cycle Assess

2: Fulton, J., Norton, M. and Shilling, F. (2019). Water-indexed benefits and impacts of California almonds. Ecological Indicators.

3: March 2021 Report on the 'Economic contribution of the Australian Almond Industry' by RMCG Consulting for Horticulture Innovation Australia

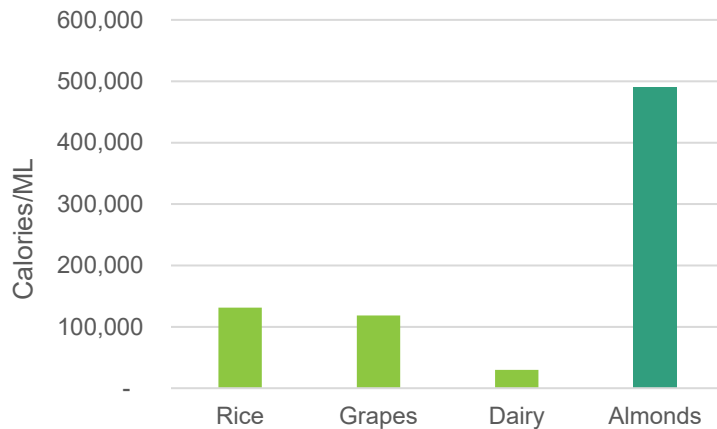


**SELECT HARVESTS**

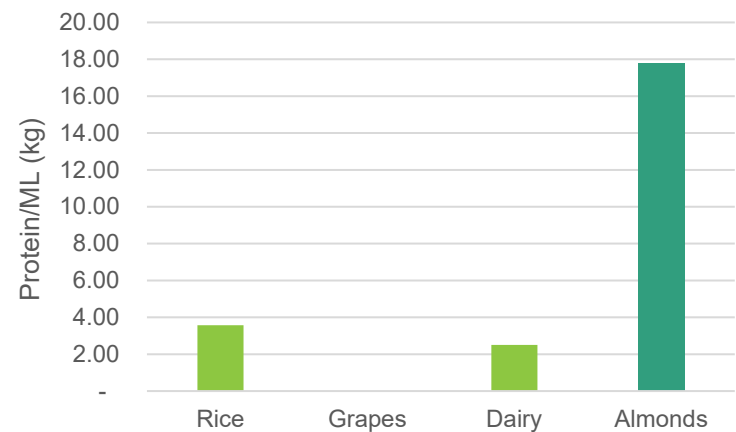


# Water use efficiency of Australian almonds

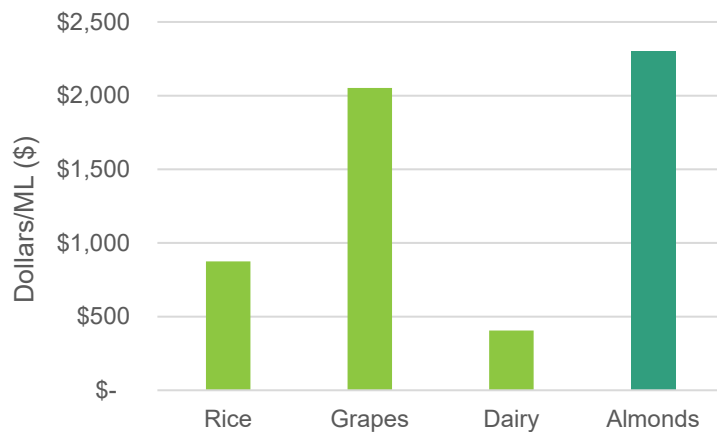
## Calories per ML



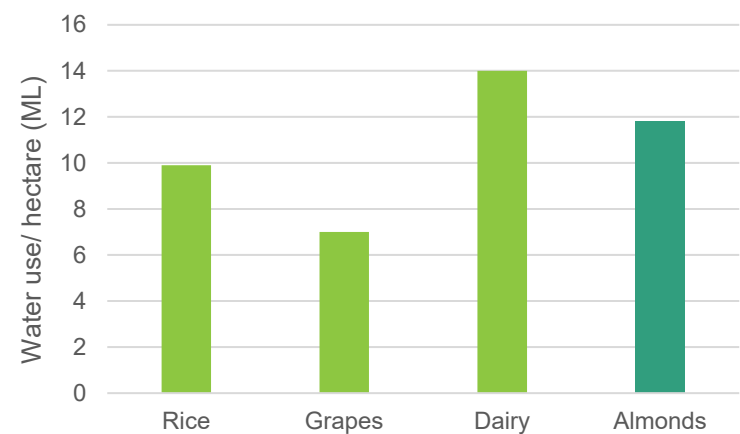
## Kg Protein per ML



## Dollars per ML



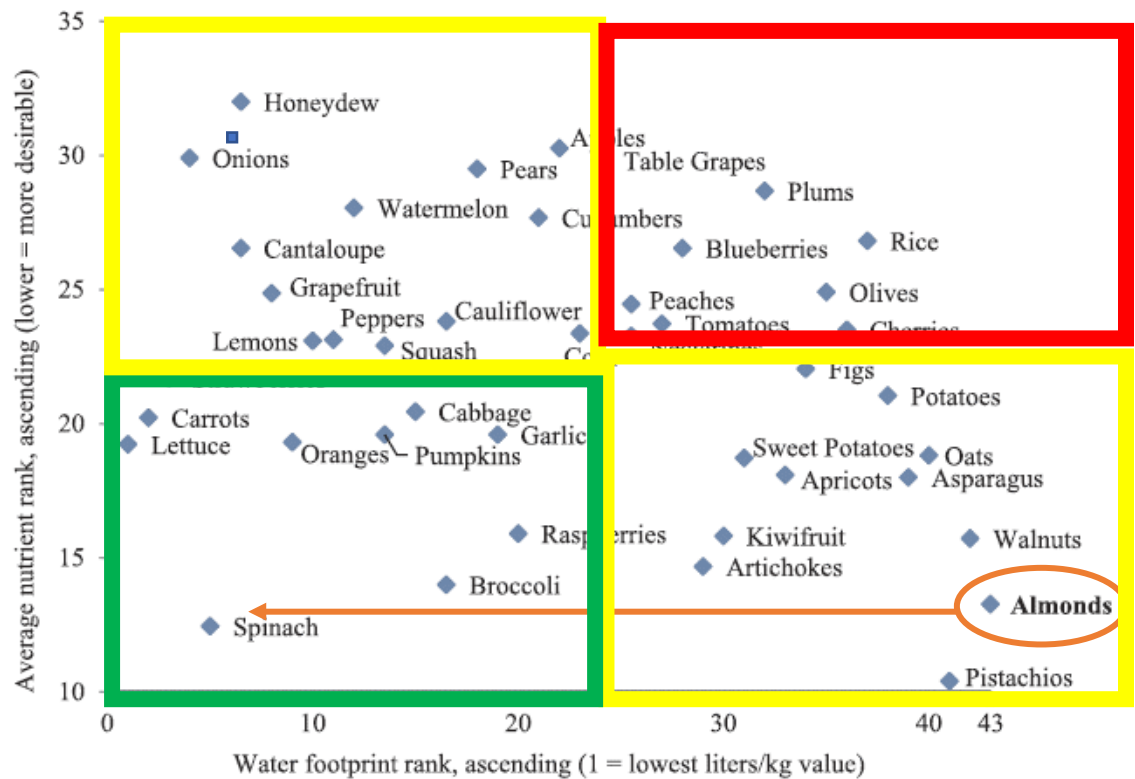
## Water Use (ML/Ha)



# Almond water footprint and nutritional value

## Attributing the water to the total biomass we grow

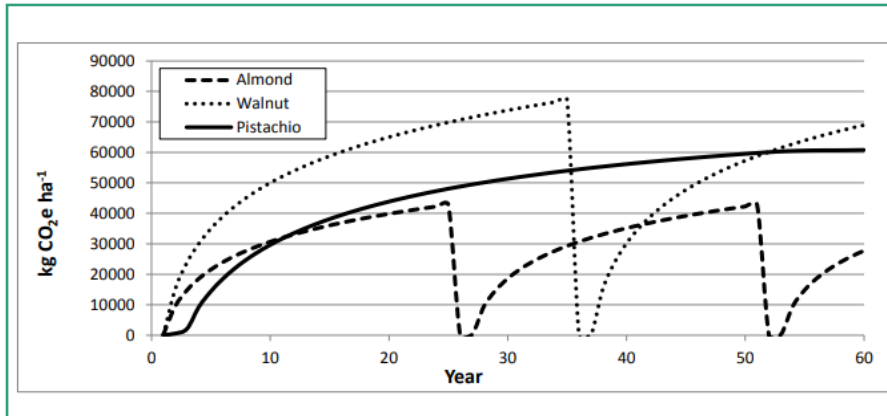
Major Californian crops ranked by water footprint and nutritional value



Source: Fulton, J., Norton, M. and Shilling, F. (2019). Water-indexed benefits and impacts of California almonds. Ecological Indicators. 96: 711-717.  
Note: California accounted for approximately 78% of global almond production volume in 2021/22

# Almond industry carbon facts from California

This study needs to be undertaken for the Australian Almond Industry.



Total biomass produced by an Almond crop in California per hectare during their life cycle:

81MT kernel + 220 MT hull & shell + 40-50 MT of woody biomass

= Total 450 MT organic biomass

CO<sub>2</sub> absorption by the crop during the life cycle 960 MT

## CO<sub>2</sub> and methane emissions

- Feed stock

Emissions = >440 MT CO<sub>2</sub>-e

## Soil carbon sequestration

- Compost production
- Biochar/Cogen plant
- Hull digested liquid

Potential for soil carbon credits  
= > 440 MT CO<sub>2</sub>-e

Hull & shell  
(220 MT/Ha)

Woody  
biomass  
(40-50 MT)

## Burning woody biomass

Emissions = >100 MT CO<sub>2</sub>-e

## Whole orchard recycling

- Cogen plant

Potential for soil carbon credits  
= >100MT CO<sub>2</sub>-e

Source: A scalable and spatiotemporally resolved agricultural life cycle assessment of California (Elias Marvinney, Alissa Kendall; The International Journal of life cycle assessment, March 2021);

A comparative assessment of greenhouse gas emissions in California almond, pistachio, and walnut production (Elias Marvinney, Alissa Kendall, Sonja Brodt; 9th International conference LCA of food San Francisco, USA 2014)



SELECT HARVESTS





# Supporting our local communities

We are a major employer and active member of the communities in which we operate.



We support our local communities

# Co-waste projects

Select Harvests is undertaking three co-waste projects to increase sustainability and generate positive commercial outcomes for the business.



## Almond Hull to Energy

Select Harvests co-generation power station is the integral link for our three sustainable co-waste projects



## Waste Ash to Compost

Waste ash by-product generated by our co-generation power station is being used to produce high-quality compost



## Almond Hull to Fertiliser

Select Harvests has developed a novel process for digesting almond hull to produce liquid and solid fertilisers



## Fly Ash to Liquid Fertiliser

Select Harvests developed a novel process to convert waste ash into high-grade potassium rich liquid fertiliser

### Benefits

- Waste recycling
- Compost generation
- Renewable energy

### Benefits

- Replaces chemical fertiliser
- Improves soil quality
- Improved tree health

### Benefits

- Replaces chemical fertiliser
- Current trials show preliminary results increase soil carbon levels by up to 100%
- Improves soil health and potentially water efficiency

### Next Steps

Commercial Licence

Pilot Plants



SELECT HARVESTS



# Thank You

## Please direct any queries to:

Paul Thompson

Managing Director

+61 3 9474 3544

Brad Crump

CFO and Company Secretary

+61 3 9474 3544

Andrew Angus

Investor Relations

+61 402 823 757

Please note that background material/data regarding the global almond industry can be found on the Select Harvests Limited website.

This presentation has been approved by the Board of Select Harvests.

