

# Pistachio Research

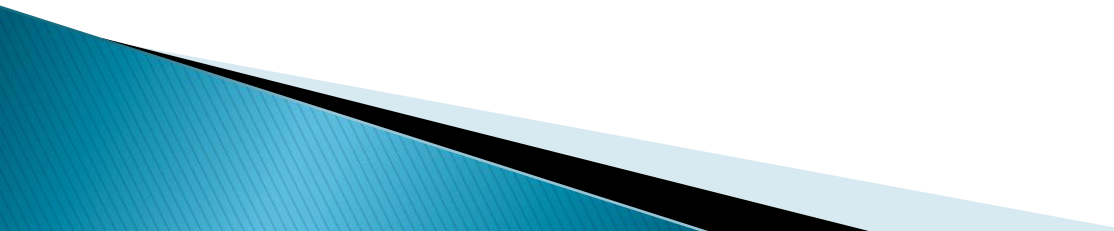
PS11000

Maintaining and Expanding the technical  
development of the Australian Pistachio  
Industry

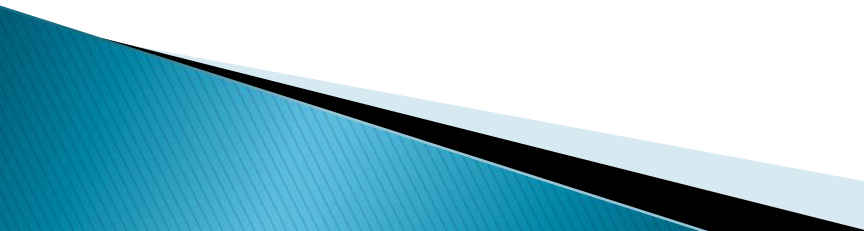
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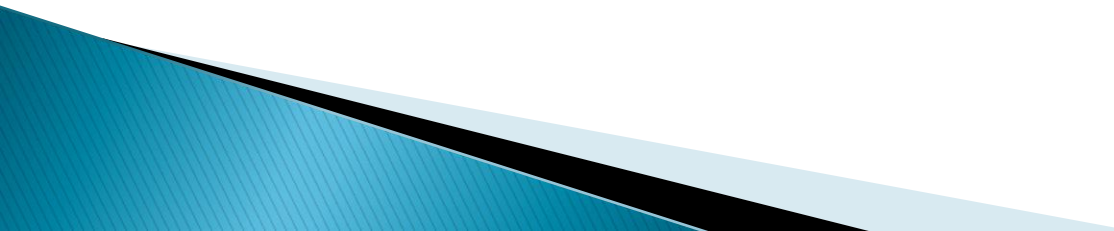
# OUTPUTS

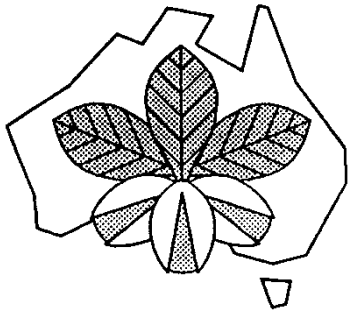
This project will produce:

- ▶ Optimum application rates of nitrogen kg/ha to maximise yield
  - ▶ Climate models that assist in managing the production pistachios
  - ▶ Australian leaf analysis standards for *Sirora* pistachio variety to ensure optimum nutrition
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# OUTPUTS

- ▶ Further fine tuning of the amount of winter chill hours required for *Sirora* pistachio variety
  - ▶ Best practice guide for pruning pistachios – mechanical and hand – to maximise yield, minimise biennial bearing, and to minimise cost
  - ▶ Use of reflective mulch to improve yields
  - ▶ Details on the best use of winter oils.
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- ▶ **Start Date**      1 / 10 / 2011
  - ▶ **End Date**        30 / 09 / 2014
  - ▶ Total project funds – \$472,000.00
  - ▶ Project managed by PGAI
  - ▶ Project funded by Pistachio Voluntary contributions
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# Pistachio Research

**PS11002**

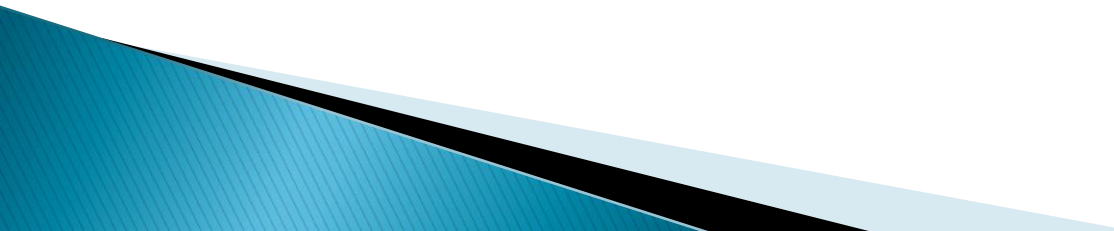
**Generation of residue data for continued access  
to pesticides for the Pistachio Industry**

# OUTPUTS

The outputs from this project will include:

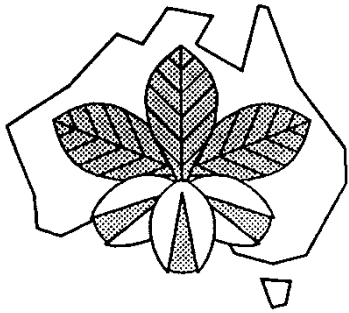
- ▶ Completion of trials and the collection of relevant data on the use of relevant chemicals on Pistachio production during the 2011/12 and 2012/13 production period
- ▶ Appropriate information being supplied to the APVMA for new and the renewal of minor use permits for the chemicals as the permits are already expired/due for renewal,

# OUTPUTS

- ▶ Chemicals being available to Australian Pistachio Growers under minor use permits by September 2012 onwards.
  - ▶ Pistachio Growers having an increased list of chemicals available to manage diseases.
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- ▶ **Start Date**            16/11/2011
  - ▶ **End Date**             01/07/2013
  - ▶ **Total project funds:-**        \$176,936.00
  - ▶ **Project managed by PGAI**
  - ▶ **Project funded by Pistachio Voluntary contributions**
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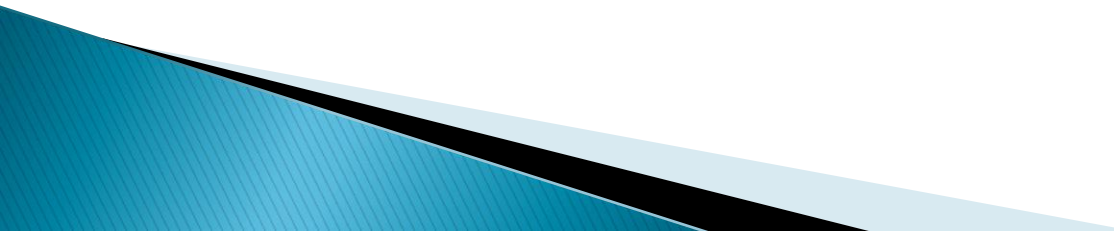




# Pistachio Research

**MT12010**

**Understanding the Purchase Behaviour of Fresh  
Produce Consumers**

- ▶ Total Project funds:- \$5,670.00
  - ▶ Project managed by HAL
  - ▶ Project funded by APPC
- 



*Know-how for Horticulture™*

# Pistachio Brand Health & Demographics

Source: Nielsen Homescan data until 14<sup>th</sup> Apr 2012

# Pistachios...



An additional 145k Australian households purchased Pistachio during the latest MAT, spending an average of \$18.7 on 0.8 kilos of this commodity.

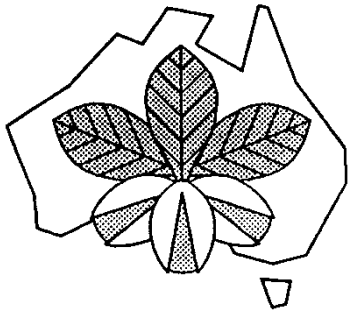
Increase in average spend per household was a result of a raise in the amount spend per shipping trip, however volume indicators remained steady in the same period.



Queensland and Victoria have increased their share at the expense of NSW, however NSW is still the most important state from a value perspective.

Senior Couples, and Bustling and Start Up Families showed significant increases in penetration when compared to other demographics



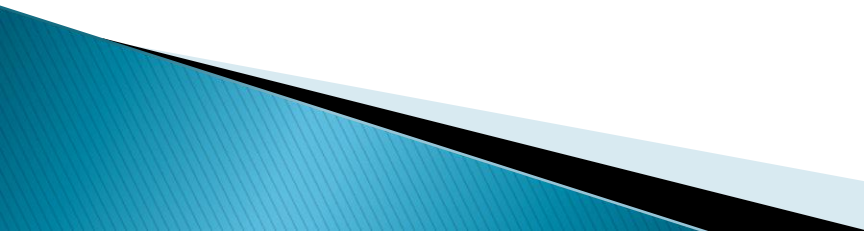


# Pistachio Research


**PS13000**

**Trialling dry hulling of raw pistachios to improve  
pistachio processing**

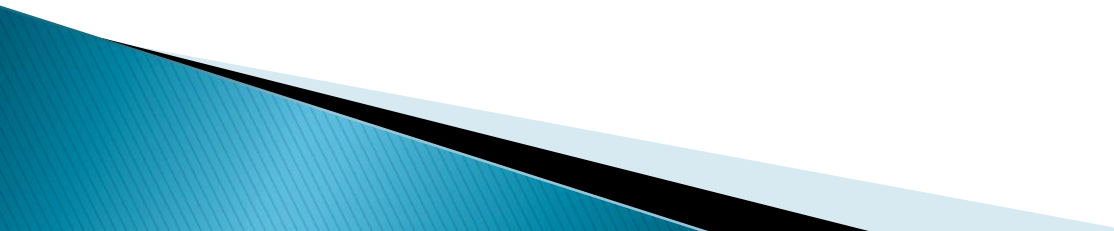
# OUTCOMES

- ▶ Development and implementation of dry hulling and hull waste separating technologies to improve current wet hulling performance and to reduce the volume of wet hull waste produced from wet hulling
  - ▶ Development and implementation of technology to separate hulled from inadequately hulled nuts to enable the inadequately hulled nuts to be recycled through the hulling process
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# OUTCOMES

- ▶ Reduction in future pistachio hulling capital requirements to provide capacity for the expansion in the Australian pistachio industry
  - ▶ Relative reduction in water use and waste water disposal from hulling
  - ▶ Development of the reuse of dry hull to provide nutrient recovery back into pistachio orchards
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# OUTCOMES

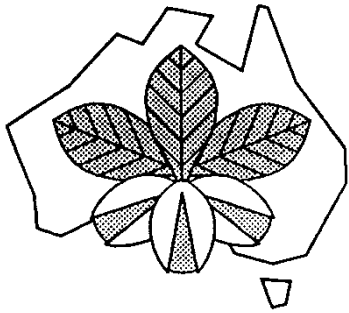
- ▶ Determination of the parameters that maximise the % of wide splits during drying and the factors that cause wide splits to close during storage
  - ▶ Determination of the optimal process conditions to maximise the % of wide splits during hulling and drying and to economise energy consumption to achieve this outcome
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# OUTCOMES

- Lead the development of Australian pistachio hulling and drying to become world's best practice.

- ▶ **Start Date**            17/09/2013
  - ▶ **End Date**             30/09/2016
  - ▶ **Total project funds:-**        \$348,000.00
  - ▶ **Project managed by PGAI**
  - ▶ **Project funded by Australian Pioneer Pistachio Company contributions**
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# Pistachio Research

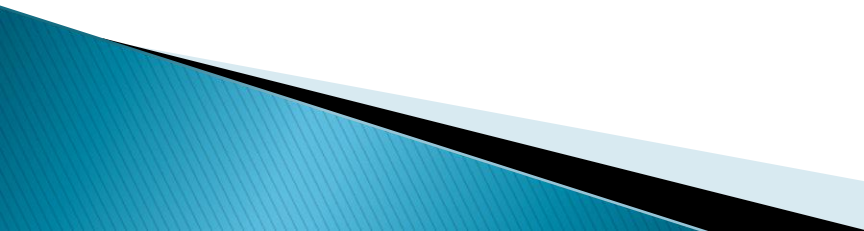
**PS13003**

**Technology Transfer to Pistachio growers**

# OUTPUTS

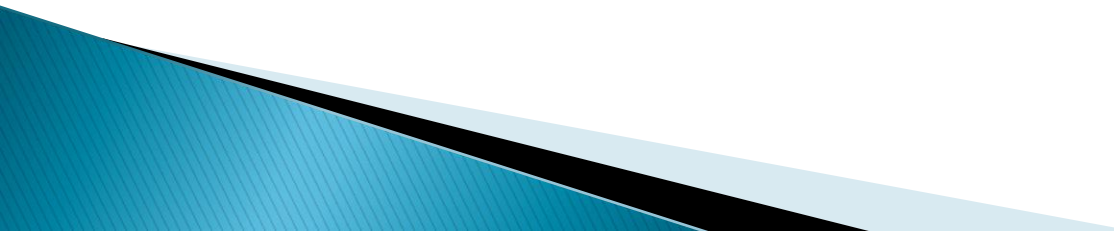
- a) Establishment of Pistachio 'Tech Groups' for growers within three regional areas of the Riverland. Mildura/Robinvale and Swan Hill.
  - b) Regular communications and interaction between growers within the specific regions.
  - c) A program of a minimum of two 'Tech Group' meetings/field days in each of the regions at relevant times of the production cycle.
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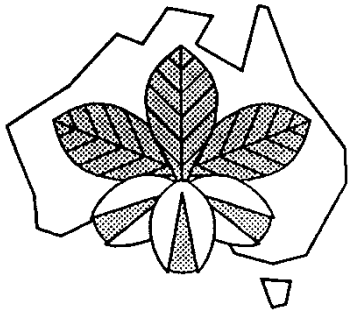
# OUTPUTS

- d) The utilisation of Australian and/or International Pistachio experts/technicians in 'roadshows' throughout the growing regions to give presentations on their specific areas of expertise.
  - e) Compilation of technical information from overseas and Australia and the presentation of the material in a range of formats that can be utilised by any grower within the pistachio industry.
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# OUTPUTS

- f) Maintenance of an industry consultancy/advisor list and the delivery of current and up to date industry information to ensure a consistent message is being delivered to all Australian Pistachio growers.
  
  - g) Maintenance and expansion of the linkages between the Australian Pistachio Industry and the research and growing communities in the USA, Turkey, Iran and China.
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- ▶ **Start Date**            26/06/2014
  - ▶ **End Date**            31/08/2017
  - ▶ **Total project funds:-**        \$55,000.00
  - ▶ **Project managed by PGAI**
  - ▶ **Project funded by Pistachio Voluntary contributions**
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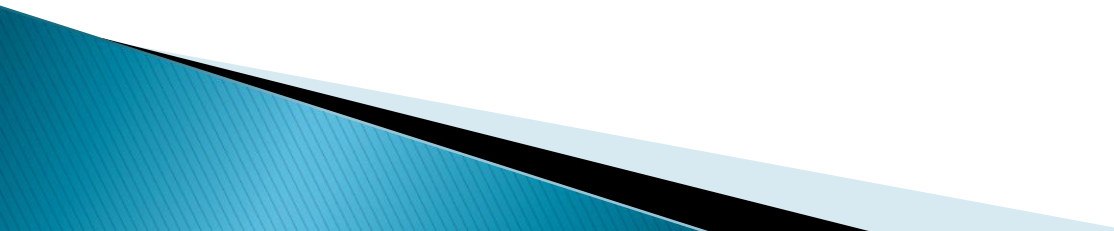


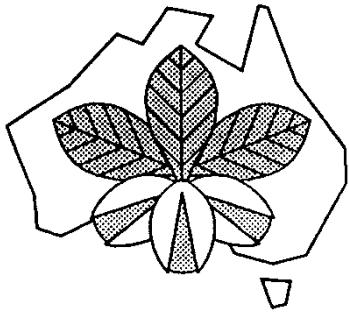
# Pistachio Research

**PS14000**

Maintaining and expanding the technical  
development of the Australian Pistachio  
Industry



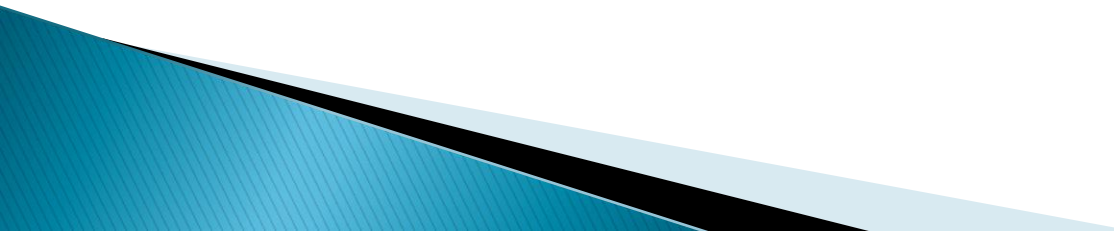
- ▶ **Start Date**            1 / 10 / 2014
  - ▶ **End Date**            30 / 09 / 2017
  - ▶ **Total project funds:-**        \$472,000.00
  - ▶ **Project managed by PGAI**
  - ▶ **Project funded by Pistachio Voluntary contributions**
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# Pistachio Research

**PS14002**

Identification Insect populations within Pistachio  
Orchards

- ▶ **Start Date**            1 / 11 / 2014
  - ▶ **End Date**            31 / 10 / 2017
  - ▶ **Total project funds:-**        \$20,000.00
  - ▶ **Project managed by PGAI**
  - ▶ **Project funded by Pistachio Voluntary contributions**
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**THANK YOU**

