

Horticulture Innovation Australia

Australian Horticulture Statistics Handbook Nuts 2015/16

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Overview

Overview

This Handbook is an analysis that combines all available data on production, international trade, processing volumes and fresh market distribution in order to produce statistics on 75 horticultural categories over the year ending 30 June 2016.

Summary of Approach

The Handbook adopts a modelling approach that centres on determining the fresh market value and volume for each category, that reconciles production with local and international distribution channel throughputs. Fresh market supply volume is determined as follows:

Fresh Supply = Production - Fresh Exports - Processing + Fresh Imports

- Farm gate production quantity has been informed through a number of sources, including Hort Innovation funded data projects, horticultural government levy data where available, and refined through consultation with informed industry bodies. The corresponding value of production is calculated from wholesale pricing information, before removing known logistical, marketing and wholesale costs to reflect product value at the farm gate.
- Export and import trade volume and value is based on Australian Customs data as reported in IHS Global Trade Atlas data.
- Processing data has been obtained through consultation with industry processors¹.

See pages 18 and 19 under 'research method' for a detailed description on this Handbook's methodology.

This publication covers the year ending 30 June 2016 and examines the production and distribution of horticulture products. Some of the key influences on horticultural production and distribution over this period are summarised below.

Further growth in export markets has lifted the profile of Horticulture, stimulating more interest as some categories pass the tipping point of distributing more volume through export than domestic markets. Total fresh horticulture exports lifted to **\$2.1 billion**, with significant increases in the exports of citrus, table grapes, macadamias, and carrots.

The more consolidated and invested producer base shows the capacity influence of the domestic supply chain. This is reflected in; the control of plant variety rights; longer term contracts with trading partners and the differentiation of products, which combine to enable these suppliers to assert more influence on where their product is distributed and how value is captured.

The domestic market remains dominated by the competitive intensity in the retail channel with the growth generated being attributed to products in smaller portions and meal ready forms. The food service channel is generating growth as consumers are drawn into using more technologyenabled ordering tools and are spending more of their food dollars on eating out, confirmed by a moderate increase of **2.2%** in the turnover of Cafes, Restaurants and Catering Services over the 2015/16 period, per ABS Retail Trade Statistics.

These influences are expected to prevail in the near term.

¹Note that the \$ value of processing volumes has not been included in the analysis.



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*Up to date Pistachio data was not available.

Availability of valid statistical information is a key enabler across horticulture. The Australian Horticulture Statistics Handbook for the year ending 30 June 2016, is presented by Horticulture Innovation Australia for the purpose of consolidating horticulture statistical information for use by horticulture industry members and other stakeholders.

The information sources for this publication have drawn on data available from the Australian Bureau of Statistics, Hort Innovation funded projects, international trade sources and horticulture industry representative bodies (IRBs) where available. In this publication these sources have been expanded to include and draw on household consumption and local market distribution channel information, as assessed by Freshlogic, to provide a reconciled profile of each supply chain.

The 2015/16 Handbook has been compiled by Freshlogic. In this edition, there have been some changes to the way some categories and products have been profiled compared to the 2014/15 edition. Major changes include:

- **Olives** now profiles the production of table olives, and olive oil, with a focus on olive oil as this is the predominant product form for Australian olives.
- Prunes (Dried Plums) has been separated from the "Other Dried Tree Fruit" category.

Where additional information has led to a change in the previously quoted value from the 2014/15 edition for a category, this has been noted on the page of the relevant category.

This edition of the Handbook is made available electronically via the Hort Innovation website, at <u>www.horticulture.com.au</u>

Hort Innovation will evaluate the uptake and usage of the Handbook to ensure that future editions are delivered according to user needs.

Any comments regarding the Handbook should be forwarded to Hort Innovation at: <u>feedback@horticulture.com.au</u>

Innovation

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Abbreviations

Definitions

% YoY	% increase/decr	ease this year compared to last year	Category—A particular horticultural commodity (e.g. bananas), or in some cases a
\$	Australian Dollar	S	combination of like commodities (e.g. the category 'rubus berries' covers raspberries
\$b	Billion Australiar	Dollars	and blackberries and other rubus).
\$m	Million Australia	n Dollars	Production —The volume in tonnes of the category that was grown in Australia over
2015/			the year. This refers to production which was sold by the producer, either to the
ABS	Australian Burea		Australian fresh or processing markets, or to international trade markets. This does
			not cover any production that was not harvested, nor does it refer to any other forms of production of the category that do not enter these markets.
CIF		e and Freight (a measure of import value)	Value of Production—Sometimes referred to as 'Farm Gate Value,' this is the value of
FOB	Free On Board (a	measure of export value)	the production received by the producer.
g	Grams		Processing Volume —The volume in tonnes of the category that was sent to be
GTA	Global Trade Atl	as	processed, such as juicing, freezing or preserving.
kg	Kilograms		Fresh Exports —The volume in tonnes of the production that was exported in a fresh
KWE	Kernel Weight E	quivalent	form to other countries. Due to the way trade information is recorded, this may
ha	Hectares	-	include some dried products, and will be marked as such where appropriate.
ISWE	In-Shell Weight I	quivalent	Value of Fresh Exports—The value in million dollars of the category's fresh exports.
1	Litres		This is recorded in FOB (Free on Board) dollars.
m ²		(a measure of area)	Fresh Imports—The volume in tonnes of the category that was imported into
	-		Australia from another country in a fresh form.
m m ²		quared (a measure of area)	Value of Fresh Imports—The value in million dollars of the category's fresh imports.
ML	Mega Litres (1 m	illion litres)	This is recorded in CIF (Cost of Insurance and Freight) dollars.
N/A	Not Available		Fresh Supply—The volume in tonnes of the category that was available to the
t	Tonnes (1 thous	and kilograms)	Australian market in a fresh form. Volume supplied to the fresh market is typically
			either sold at retail or supplied to food service outlets.
	States	Countries	Wholesale Value—The value in million dollars of the fresh supply at a wholesale
NSW	New South Wales	PNG Papua New Guinea	market level, inclusive of net international trade flows. <i>Note that the Wholesale</i>
		-	value is distinct from the Gross Value of Production tracked by the ABS, as that
NT	Northern Territory	UAE United Arab Emirates	measure includes value of processing and exported product, and does not include

UK United Kingdom

US United States of America

In-Shell (Nut categories) —A measure of volume that includes the weight of the inedible shell around the kernel.

Kernel (*Nut categories***)** —A measure of volume that only includes the edible kernel. **Crack Out Yield (***Nut categories***)** —The percentage of edible kernel obtained from the in-shell volume during the cracking process.



Victoria

Queensland

Tasmania

South Australia

Western Australia

VIC

QLD

SA

TAS

WA

8

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imported product.

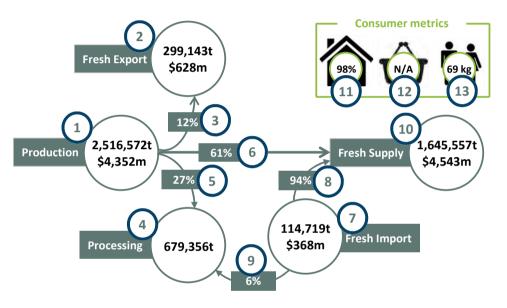


How to use this book

This section outlines how to interpret the various graphs, tables and supply chain models used to profile each of the horticultural commodities covered in this handbook.

Fresh supply chain—Fruit and Vegetables

This example supply chain outlines the flow of a fruit or vegetable category over the year ending June 2016. It contains the following elements:



- 1. **Production**. This is the volume of the category grown in Australia over the year ending June 2016. This profiles the **Production** (volume in tonnes), as well as the value in million dollars obtained by the producers i.e. the **Value of Production**, sometimes known as the farm gate value.
- 2. Fresh Exports. The volume in tonnes of the production that was exported in a fresh form, and the value in million dollars received.
- **3. Export Share**. The percentage share of production that was exported.

How to use this book

- **4. Processing**. The volume in tonnes of the production that was sent to be processed (such as juicing, freezing or preserving etc).
- 5. **Processing Share**. The percentage share of production that was processed.
- 6. Fresh Supply Share. The percentage share of production that was sent to the Australian fresh market.
- 7. Fresh Imports. The volume in tonnes of the category that was imported in a fresh format from another country, and the value in million dollars paid to import.
- 8. Import Fresh Supply Share. The percentage share of fresh imports that was sent to the Australian fresh market.
- **9. Import Processing Share**. The percentage share of fresh imports that was sent to be processed.
- 10. Fresh Supply. The volume of the category available to the Australian fresh market. It includes both Production that was sold into the fresh market, as well as Fresh Imports that were sold into the fresh market. This profiles the Fresh Supply (volume in tonnes), and the Wholesale Value in million dollars, which is the value of the Fresh Supply at a wholesale market level.
- **11. Household Penetration**. The percentage of Australian households who bought the category at least once at retail, to be consumed either in or out of the home, over the year ending June 2016.
- **12.** Average Purchase Quantity. The average quantity purchased at retail per shopping trip by Australian households over the year ending June 2016. A shopping trip refers to a trip where this category is purchased.
- **13.** Fresh Supply per Capita. The volume of fresh supply available to the Australian population, on a per capita basis.

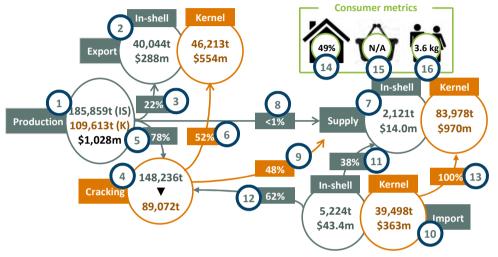


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Supply chain—Nuts & Olives

This example supply chain outlines the flow of a nut category over the year ending June 2016. Because nuts are sold both in an *In-Shell* and *Kernel* format, the nut supply chain profiles both elements, indicated by *green* for *In-Shell* and *orange* for *Kernel*. The chain contains the following elements:



- Production. This is the volume of the category grown in Australia over the year ending June 2016. This profiles the Production (volume in tonnes), in both *In-Shell* (written in *green* and denoted by *IS*) and the *Kernel* equivalent of this volume after cracking (written in *orange* and denoted by *K*), as well as the value in million dollars obtained by the producers i.e. the Value of Production.
- 2. Exports. The volume in tonnes of the production that was exported, and the value in million dollars received. This profiles both *In-Shell* exports and *Kernel* exports.
- **3.** *In-Shell* Export Share. The percentage share of *In-Shell* production that was exported.
- 4. Cracking. The volume in tonnes of the *In-Shell* production and imported *In-Shell* product that was sent to be cracked so as to produce kernel. This profiles both the *In-Shell* volume in, and the *Kernel* volume out.

- 5. Cracking Share. The percentage share of *In-Shell* production that was cracked.
- 6. *Kernel* Export Share. The percentage share of cracked *Kernel* that was exported.
- 7. **Supply**. This is the volume of the category available to the Australian market. It includes both Production that was sold into the market, as well as Imports that were sold into the market. This profiles the **Supply** (volume in tonnes), and the **Wholesale Value** in million dollars, which is the value of the Supply at a wholesale market level. It covers both *In-Shell* and *Kernel* supply.
- 8. *In-Shell* Supply Share. The volume in tonnes of the *In-Shell* Production that was supplied to the market.
- **9.** *Kernel* **Supply Share**. The volume in tonnes of cracked *Kernel* that was supplied to the market.
- **10. Imports**. The volume in tonnes of the category that was imported from another country, and the value in million dollars paid to import. Profiles both *In-Shell* and *Kernel* imports.
- 11. *In-Shell* Import Supply Share. The percentage share of *In-Shell* imports that was sent to the Australian market.
- **12.** *In-Shell* **Import Cracking Share**. The percentage share of *In-Shell* imports that was sent to be cracked.
- **13.** *Kernel* **Import Supply Share**. The percentage share of *Kernel* imports that was sent to the Australian market.
- **14. Household Penetration**. The percentage of Australian households who bought the category at least once at retail, to be consumed either in or out of the home, over the year ending June 2016.
- **15.** Average Purchase Quantity. The average quantity purchased at retail per shopping trip by Australian households over the year ending June 2016. A shopping trip refers to a trip where this category is purchased.
- **16. Fresh Supply per capita**. The volume of fresh supply available to the Australian population.

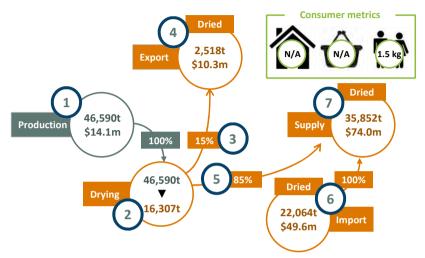
Note that olives (fruit) uses the same supply chain format as nuts. However, instead of an in-shell form, the supply chain refers to table olives, and instead of a kernel form, the supply chain refers to olive oil. The term "Cracking" is also replaced with "Oil Production".





Processed supply chain—Dried/Canned Fruit

This example supply chain outlines the flow of the three dried/canned fruit categories over the year ending June 2016. It contains the following elements:



- 1. **Production**. The volume of the category grown in Australia over the year ending June 2016. This profiles the **Fresh Production** (written in *green*) and as well as the value in million dollars obtained by the producers i.e. the **Value of Production**.
- Drying/Canning. The volume in tonnes of the *Fresh* production that was sent to be processed. This profiles both the *Fresh* volume in, and the *Processed* volume out (written in *orange*).
- 3. **Export Share**. The percentage share of *Processing* that was exported.
- 4. **Dried/Canned Exports**. The volume in tonnes of the **Processing** that was exported in a **Processed** form, and the value in million dollars received.
- 5. Supply Share. The percentage share of *Processing* that was sold locally.
- 6. *Dried/Canned* Imports. The volume in tonnes of imported *Processed* product, and the value in million dollars paid to import.
- 7. Supply. This profiles the Supply (volume in tonnes), and the Wholesale Value in million dollars, which is the value of the Supply at a wholesale market level. It includes both *Processed* production that was sold into the market, as well as *Processed* Imports that were sold into the market.

Data Tables

These tables are provided for each category. They profile key elements over the last three years (for the years ending June 2013, June 2014 and June 2016), as well as the percentage change in value year on year. They contain:

Year Ending June		2013		2014		2015		
fear chung june	Value		Value Value		% YoY	Value		% YoY
Production (t)		77,844		83,527	+7%		87,542	+5%
Production (\$m)	\$	567.0	\$	644.2	+14%	\$	679.0	+5%
Production area (Ha)		2,092		2,312	+11%		2,453	+6%
Fresh Export Volume (t)		850		1,630	+92%		2,015	+24%
Fresh Export Value (\$m)	\$	6.3	\$	11.8	+88%	\$	14.5	+23%
Fresh Import Volume (t)		1,098		1,138	+4%		1,039	-9%
Fresh Import Value (\$m)	\$	17.0	\$	19.1	+12%	\$	18.6	- 2%
Fresh Supply (t)		65,660		70,217	+7%		73,267	+4%
Fresh Supply Wholesale Value (\$m)	\$	681.4	\$	767.1	+13%	\$	809.0	+5%
Consumption per Capita (kg supply)		2.84		2.99	+5%		3.08	+3%

- **Production**. The volume of the category grown in Australia.
- Value of Production. The value of the production over the year.
- **Production Area/Number of Trees/Vines**. A measure of the growing area of the category (in hectares), or the number of trees/vines used to grow the category over the year. This data has been gathered from the Australian Bureau of Statistics Agricultural Statistics information, the largest survey of growers available. *This information has been included for indicative purposes only, and should be viewed as such*.
- **Export Volume and Value**. The volume in tonnes and the value in million dollars of the category exported in a fresh form over the year.
- **Import Volume and Value**. The volume in tonnes and the value in million dollars of the category imported in a fresh form over the year.
- **Supply**. The volume in tonnes of the category made available to the local Australian fresh market, including locally grown product and imported fresh product.
- Wholesale Value. The value in million dollars of the supply at a wholesale market level.
- **Consumption per capita**. The volume available to the Australian public. Calculated as the volume supply divided by the population for the year.





Research Method

Overview

This publication has gathered all available horticultural information and aligned it into supply chain profiles for each of the horticultural categories covered. The approach for each horticultural category has been to quantify available production, volumes processed, volumes exported and imported, and to then confirm that the resulting fresh volume supplied aligns with the Australian market distribution channels (primarily the retail and foodservice channels). This volume of fresh supply available to the Australian fresh marketplace is defined using the equation:

Fresh Supply = Production - Fresh Exports - Processing + Fresh Imports

The distribution channel modelling has drawn upon Freshlogic's THRUChain modelling system to ensure that fresh supply accommodates the sum volumes distributed by retail and food service channels. In the process of this modelling, information has been gathered from a number of supply chain sources and aligned with household consumer purchase metrics. The primary outputs are designed around aligned supply chains that map the distribution of total production. This design was used to deliver the most informed and accurate profiles and the outputs have been further confirmed by conferring with Industry Representative Bodies. The larger Industry Representative Bodies have advanced supply chain information systems in place and the outputs from these systems have been accessed to provide data inputs and validate findings.

In calculating the **production** and **volume processed**, a number of data sources have been relied upon. Where available and in most instances, this has been guided by information from Australian government horticultural levies, and refined through consultation with the Industry Representative Bodies and major trading stakeholders (such as processors, wholesalers and distributors) for the particular category.

Information on Australia's **imports and exports** of fresh and processed horticultural commodities has been compiled using the Global Trade Atlas[®], an online global trade information database owned and operated by IHS Markit. Information on Australian trade in the Global Trade Atlas[®] has been compiled from information provided to the Australian Customs and Border Protection Service. The Import and Export analysis tables for each category identify the import source country under "Imports by country" and the export destination country under "Export by country".

Information on **wholesale value** has been modelled using wholesale pricing information from *Ausmarket Consultants* and the *Chamber of Fruit and Vegetable Industries in Western Australia*. This information has been used to define the **Value of Production** by removing known logistical, marketing and wholesale costs to calculate the value of categories to producers at farm gate.

Consumer information including percent of households purchasing a category, and average purchase quantities, has been sourced from Freshlogic's *Mealpulse*[™] consumer survey and *DocketData*[™] systems. Supply per capita has been calculated as total volume of fresh supply divided by population for the year ending June 2016 according to the ABS. The number of households are 8.3 million and the population was at 24.1 million*.

Data on **production area** and **number of trees** has been gathered from Industry Representative Bodies and the ABS Agricultural Statistics information**, the largest survey of growers available. *This information has been included for indicative purposes only, and should be viewed as such*.

Information on **major growing regions** has been sourced both from the ABS Agricultural statistics, and through consultation with the major Industry Representative Bodies. These sources have also been used to profile seasonality and production volumes by state and by main variety of the category. *Note the information on volume by state and main variety has been included for illustrative purposes, and actual volumes may be within 10-25% of the listed volume.*

Throughout the document when data sources have been relied upon, this has been noted. Some of the more common sources have been abbreviated. The full list of sources has been provided on pages 18 and 19.

*ABS, Australian Demographic Statistics 3101 & 2011 Census **ABS, Agricultural Statistics 7121.0



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Research Method

Research Method

Common Data Sources

Abbreviation	Data Source	Further information
ABS	<i>Agricultural Commodities,</i> Australian Bureau of Statistics	Information from <i>Agricultural</i> <i>Commodities</i> (7121.0), 2014-15, 2013-14 and 2012-13 editions has been compiled. <i>Australian Demographic Statistics</i> (3101.0) June 2016 edition.
AC	Ausmarket Consultants	Wholesale pricing information from the Adelaide, Brisbane, Melbourne and Sydney wholesale markets.
CFVIWA	Chamber of Fruit and Vegetable Industries of Western Australia	Wholesale pricing information from the Perth wholesale market.
Freshlogic Analysis	THRUChain analysis— Freshlogic	Supply chain modelling system that aligns the volumes of production and international trade with the volumes distributed through processing and all domestic market channels.
GTA	IHS —Global Trade Atlas®	www.gtis.com/gta

Abbreviation	Data Source	Further information
IRB	Industry Representative Bodies	Consultation with informed bodies to en- sure information reconciles. The abbreviation 'IRB' is listed where multiple industry bodies were contacted for a category/group. Where one industry body was contacted for an individual category, the relevant name is listed.
MP & DD	Mealpulse [™] panel and DocketData [™]	Freshlogic operated information gathering tools that provide the detail of household purchasing behaviours and a basis to reconcile supply with Australian market distribution channels.







Data sharing-List of projects

List of projects

In addition to common data sources, a number of Hort Innovation funded projects have provided data outputs which have informed the information provided in this handbook. These are outlined in the table below. Hort Innovation would like to acknowledge their input.

Project Code	Project Title
AL11005 (Almonds)	Australian almond industry communications
AL16003 (Almonds)	Almond industry statistics
AP13035 (Apples)	Apple and pear industry data collection
AP15008 (Apples)	Data analysis—infoPome 3
AP16002 (Apples)	Apple and pear crop estimate
AV13003 (Avocados)	Australian avocado benchmarking program development rounds II and III
AV15004 (Avocados)	Avocado data management and quality innovation extension program
BA11013 (Bananas)	Value of the Australian banana industry to regional and national economies
BA11026 (Bananas)	Banana enterprise performance comparison—phase 3
CT13037 (Citrus)	Delivering robust citrus market information for a more competitive industry
CT14010 (Citrus)	Delivering a national citrus plantings database - 2014

Project Code	Project Title
CU15000 (Custard Apples)	Custard apple dispatch system 2
MC15005 (Macadamias)	Benchmarking the macadamia industry 2015-2018
MC15009 (Macadamias)	Macadamia crop forecasting 2015-2018
MG15003 (Mangoes)	Data collection to facilitate supply chain transparency—Stage 3
MT14006 (Multi Industry)	Export—import market intelligence project 2014-2016
PI13006 (Pineapples)	Study groups enabling industry adaption to pineapple market changes (V)
VG12083 (Vegetables)	Understanding the nature, origins, volume and values of vegetable imports
VG12090 (Vegetables)	Conveying the positive social, sconomic, environmental and other benefits of Australian vegetables
VG13068 (Vegetables)	Financial performance of Australian vegetable farms 2013-14 to 2015-16







For the year ending June 2016, Australia exported \$2.32 billion worth of

horticultural products. Nuts was the largest value export grouping. The value of

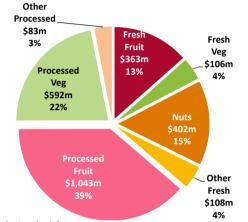
exports by group is profiled in the chart and table below. The table below also

includes the top 3 export categories within each group. These values do not



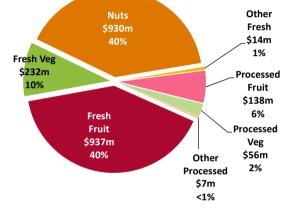
Total Imports

For the year ending June 2016, Australia imported **\$2.73 billion** worth of horticultural products. *The values below do not include wine grapes*. Processed fruit was the largest value import grouping. The value of imports by group is profiled in the chart and table below. The table below also includes the **top 3** import categories by value within each group. The value for nuts includes some processed nut products.



Sources: GTA; (Freshlogic Analysis)

Fresh Fruit	\$362.9m	Other Fresh Horticulture	\$107.7m
Table Grapes	\$66.1m	Cut Flowers	\$67.3m
Avocados	\$63.6m	Bulbs	\$25.3m
Kiwifruit	\$50.4m	Live Plants	\$15.1m
Fresh Vegetables	\$105.8m	Processed Fruit\$	1,042.7m
Garlic	\$36.9m	Olives and Olive Oil	\$197.4m
Asparagus	\$ 21. 6m	Orange Juice	\$54.8m
Mushrooms	\$9.2m	Apple Juice	\$52.4m
Nuts	\$401.7m	Processed Vegetables	\$591.8m
Walnuts	\$50.9m	Potatoes	\$174.6m
Hazelnuts	\$44.9m	Tomatoes	\$163.3m
Almonds	\$20.8m	Beans	\$69.8m



Sources: GTA; (Freshlogic Analysis)

Total Exports

include wine grapes.

Fresh Fruit	\$933.7m	Other Fresh Horticulture\$13.5m
Table Grapes	\$367.3m	Cut Flowers\$7.8m
Oranges	\$202.1m	Live Plants \$5.6m
Mandarins	\$84.8m	Bulbs\$0.1m
Fresh Vegetables	\$232.1m	Processed Fruit\$138.0m
Carrots	\$80.8m	Dried Grapes and Grape Juice\$38.4m
Onions	\$28.6m	Olives and Olive Oil \$30.7m
Potatoes	\$25.8m	Orange Juice \$7.1m
Nuts	\$929.5m	Processed Vegetables \$56.2m
Almonds	\$616.2m	Tomatoes \$21.0m
Macadamias	\$253.2m	Potatoes\$14.8m
Walnuts	\$14.2m	Cabbage \$3.6m





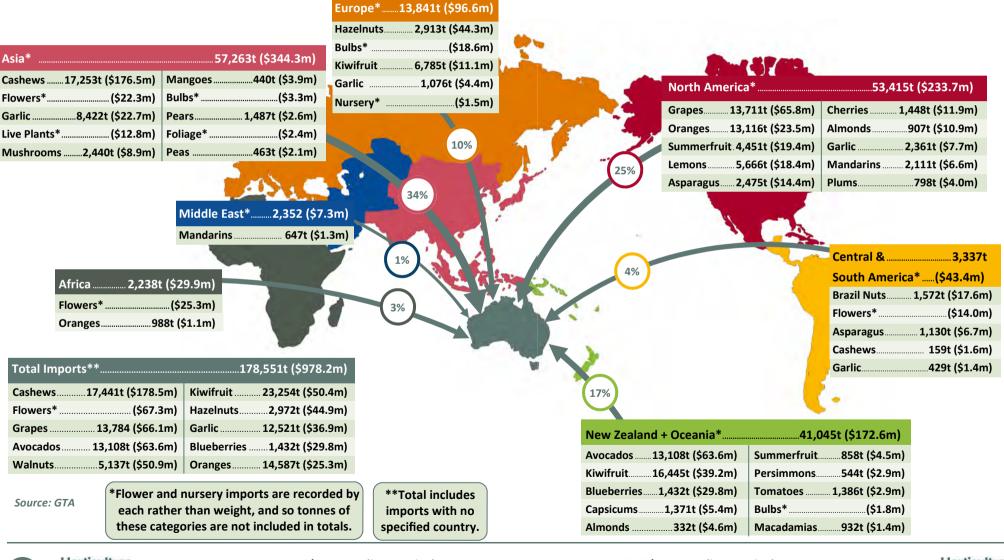


Imports of fresh horticultural products by region

These pages profile total imports of **fresh** horticultural products by 7 world regions. For each region, the total imports of fresh products is profiled, as well as up to the top 10 products **by value**, on products where imports exceed \$1 million.

International Trade—Fresh imports by region

The relative share of the **value** of imports from each of the 7 regions is also profiled in the circle associated with each region. Note that the total value and volume for all regions (located at the bottom left of the page) includes import information with no specified country, and therefore may exceed the sum of the



individual regions.

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Exports of fresh horticultural products by region

These pages profile total exports of **fresh** horticultural products by 7 world regions. For each region, the total exports of fresh product is profiled, as well as up to the top 10 products **by value**, on products where exports exceed \$1 million.

The relative share of the value of exports to each of the 7 regions is also profiled

in the circle associated with each region. Note that the total value and volume for

all regions (located at the bottom left of the page) includes export information

1

with no specified country, and therefore may exceed the sum of the individual regions. Asia* 454,113t (\$1,230.4m) Europe. ..53,798t (\$346.2m) .97,094t (\$328.6m) Mandarins 31,048t (\$55.3m) Grapes. Almonds (\$2.4m) Macadamias 1,261t (\$28.2m) Live Plants*. (\$1.9m) .2,300t (\$10.2m) Mandarins...... Walnuts. ...1,902t (\$1.8m) Macadamias.. 10,490t (\$114.6m) Asparagus4,037t (\$24.7m) Onions... 21,887t (\$14.2m) Kiwifruit 523t (\$1.2m) Cherries.. Apples. . 699t (\$2.5m) Pecans... .59t (\$1.1m) Middle East .111,578t (\$209.7m) .22,294t (\$118.8m) North America* Oranges 10,720t (\$10.0m) Almonds... ..4,148t (\$51.4m) Almonds 5,095t (\$54.2m) 998t (\$1.6m) Pears. Strawberries..... 1,004t (\$9.1m) Carrots..... .57,610t (\$45.9m) Oranges.... 10,652t (\$18.1m) Cherries 119t (\$1.4m) ..8,756t (\$26.2m) Muskmelons......4,176t (\$8.5m) Grapes.... Macadamias..646t (\$17.8m) 187t (\$1.3m) Mangoes. Summerfruit.....6,124t (\$13.9m) Mangoes.....1,647t (\$5.9m) Mandarins..... 2,904t (\$5.5m) Mushrooms. ...1.2t (\$1.2m) Macadamias......189t (\$4.8m) Mandarins....... 7,248t (\$11.2m) 6% Pecans... 219t (\$2.7m) Foliage* (\$1.0m) 2,565t (\$13.6m) Africa.. .889t (\$9.7m) Almonds. <1% .1,270t (\$1.1m) Carrots Total Exports** .689,903t (\$2,111.8m) Almonds.... . 60,633t (\$616.2m) Carrots .. 100,214t (\$80.8m) 5% Grapes.... ...110,007t (\$367.3m) Cherries.. .5,593t (\$76.1m) Macadamias.... 19,366t (\$253.2m) Summerfruit ... 14,366t (\$48.3m) .39,468t (\$111.7m) New Zealand + Oceania. .160,580t (\$202.1m) .7,006t (\$30.9m) Oranges... Mangoes. Almonds.....1,871t (\$23.1m) Beans... . 1,773t (\$5.7m) Mandarins 48,974t (\$84.8m) Onions.. .43,891t (\$28.6m) .4,053t (\$12.1m) Muskmelons 3,278t (\$5.5m) Grapes.. Mandarins5,772t (\$10.8m) .506t (\$3.9m) Strawberries... *Flower and nursery exports are recorded by **Total includes Source: GTA each rather than weight, and so tonnes of Oranges7,188t (\$7.3m) Mangoes.... .842t (\$3.4m) exports with no these categories are not included in totals. specified country. .4,340t (\$6.2m) Macadamias. ...156t (\$3.3m) Pears. Horticulture

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Imports of fresh horticultural products by state

These pages profile total imports of **fresh** horticultural products by Australian state or territory. For each state, the total imports of fresh products is profiled, as well as up to the top 10 products **by value**, on products where imports exceed \$1 million.

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The relative share of the **value** of imports to each of the states is also profiled in the circle associated with each region. Note that the total value and volume for all states (located at the bottom left of the page) includes import information with no specified state, and therefore may exceed the sum of the individual states.

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illion.	Blauthaus T	(¢ (1 0m))		Queensland*	
	Northern Te	erritory(\$<1.0m)		Avocados 5,372t (\$24.2r	n) Garlic1,855t (\$5.1m
				Cashews 1,509t (\$16.4r	
Mastorn Australia*		<1%		Blueberries	n) Flowers*(\$4.3m
				Grapes 1,575t (\$7.2r	n) Lemons/Limes 1,082t (\$3.4m
Flowers* (\$8.4m)	Summerfruit			Kiwifruit 3,050t (\$6.7r	n) Summerfruit721t (\$3.2m
Grapes 1,224t (\$5.6m)	Garlic 1,075t (\$3.4m)				
Kiwifruit 2,470t (\$5.1m)	Lemons/Limes 1,029t (\$3.1m)				
Blueberries233t (\$4.7m)	Cashews296t (\$2.9m)	6%	12%		
Oranges 2,852t (\$4.6m)	Asparagus				
South Au	stralia*1,842t (\$15.0m)			New South Wales*	
				Avocados	n) Cashews1,904t (\$18.9m
	500t (\$5.0m)	2%		Flowers*(\$29.6m	
			31%	Hazelnuts	
	(\$1.1m)			· · ·) Summerfruit2,488t (\$11.5m
				Kiwifruit 10,232t (\$22.2m	n) Asparagus1,788t (\$10.3m
Kiwiiruit	561((\$1.011)				
tal Imports**	178,551t (\$978.2m)		42%		
shews	Kiwifruit			/ictoria*	
owers*(\$67.3m)	Hazelnuts2,972t (\$44.9m)			ashews 13,231t (\$135.4m) 🛛 A	lmonds1,183t (\$15.4m)
apes 13,784 (\$66.1m)	Garlic 12,521t (\$36.9m)				iwifruit6,916t (\$15.3m)
vocados 13,108t (\$63.6m)	Blueberries1,432t (\$29.8m)		12/0		arlic4,539t (\$15.3m)
alnuts5,137t (\$50.9m)	Oranges 14,587t (\$25.3m)				razil Nuts
				lazelnuts	
JURCO GTA	nursery imports are recorded by	**Total includes	\backslash	······································	
each rather	than weight, and so tonnes of ories are not included in totals.	imports with no specified state.	Tasmania	(\$<1.0m)	
these catego	ries are not included in totals				



Exports of fresh horticultural products by state

These pages profile total exports of **fresh** horticultural products by Australian state or territory. For each state, the total exports of fresh products is profiled, as well as up to the top 10 products by value, on products where exports exceed \$1 million. Northern Territory 941t (\$4.0m)



The relative share of the **value** of exports from each of the states is also profiled in the circle associated with each region. Note that the total value and volume for all states (located at the bottom left of the page) includes export information with no specified state, and therefore may exceed the sum of the individual states.

Mangoes	3m)	10%	Macadamias2,213t (\$ Mangoes5,465t (\$ Muskmelons7,432t (\$	648.3m) Lemons/Limes2,659t (\$6.3m) 645.5m) Beans
2,151t (\$2.5m) 1,831t (\$2.2m) fruit 1,068t (\$2.2m) ers* (\$2.0m) 1,617t (\$1.7m) 9,766t (\$277.4m) 325t (\$2.2m)	<1%	10%	Mandarins28,273t (\$ Macadamias2,213t (\$ Mangoes5,465t (\$ Muskmelons7,432t (\$ Broccoli/Cauli2,983t (New South Wales* Macadamias3,545t	48.3m) Lemons/Limes2,659t (\$6.3m) 448.3m) Beans
2,151t (\$2.5m) 1,831t (\$2.2m) fruit 1,068t (\$2.2m) ers* (\$2.0m) 1,617t (\$1.7m) 9,766t (\$277.4m) 325t (\$2.2m)		10%	Macadamias2,213t (\$ Mangoes5,465t (\$ Muskmelons7,432t (\$ Broccoli/Cauli2,983t (New South Wales* Macadamias3,545t	445.5m) Beans 1,756t (\$5.7m) 523.2m) Grapes 1,691t (\$5.4m) 512.5m) Avocados 959t (\$5.2m) (\$7.5m) Watermelons 4,442t (\$4.9m) 61,445t (\$197.0m (\$68.6m) Pecans 841t (\$9.1m)
		10%	Mangoes5,465t (\$ Muskmelons7,432t (\$ Broccoli/Cauli2,983t (New South Wales* Macadamias3,545t	\$23.2m) Grapes
fruit1,068t (\$2.2m) rers*		10%	Muskmelons7,432t (\$ Broccoli/Cauli2,983t (New South Wales* Macadamias3,545t	\$12.5m) Avocados
ers*(\$2.0m) 		10%	Broccoli/Cauli2,983t (New South Wales* Macadamias3,545t	(\$7.5m) Watermelons4,442t (\$4.9m)
9,766t (\$277.4m) 3%		10%	New South Wales* . Macadamias3,545t	
9,766t (\$277.4m) 		10%	Macadamias3,545t	(\$68.6m) Pecans
			Macadamias3,545t	(\$68.6m) Pecans
			Oranges	
				(\$27.7m) Cherries1,033t (\$8.7n
			Grapes5,273t	(\$17.3m) Blueberries 184t (\$4.0n
		9%	Walnuts	(\$13.8m) Muskmelons1,717t (\$3.1n
			Potatoes	(\$10.6m) Almonds 145t (\$1.9n
			Victoria*	
		50%	Almonds45,707t (\$451.4m) Pears11,589t (\$20.2m
89,903t (\$2,111.8m)			Grapes101,735t (\$340.0m) Mandarins
100.214t (\$80.8m)			Oranges70,887t	(\$88.4m) Cherries 1,274t (\$14.4m
			Summerfruit 10,966t	(\$36.8m) Broccoli/Cauli 2,061t (\$6.0m
			Asparagus4,072t	(\$25.0m) Carrots 3,984t (\$4.4m
		4%		
				88 (\$17.6m)
specifica sta			Apples	ost (\$1.5m)
 F S			628t (\$1.9m) 2,173t (\$1.8m) es504t (\$1.3m) 589,903t (\$2,111.8m) 100,214t (\$80.8m) 5,593t (\$76.1m) fruit14,366t (\$48.3m) 5,593t (\$76.1m) fruit14,366t (\$48.3m) 3,7,006t (\$30.9m) 43,891t (\$28.6m) xports are recorded by ght, and so tonnes of not included in totals. **Total includes exports with no specified state. 2015/16 Australian Horticulture Statistics Handbook 2015/16 Australian Horticulture Statistics Handbook	628t (\$1.9m) 2,173t (\$1.8m) es

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Data Tables—Production



Production Volume

The table below summarises the **Production** in **tonnes** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Production (t)	
All Horticultural Products	6,358,805	Pas
All Fruit	2,609,312	Pap
Apples	316,758	Per
Avocados	66,716	Pea
Bananas	395,878	Pin
Berries - Combined	84,709	Sur
Blueberries	7,660	A
Rubus Berries	4,974	1
Strawberries	72,075	F
Cherries	18,584	Tab
Citrus - Combined	714,207	Pro
Grapefruit	12,618	
Lemons/Limes	44,757	F
Mandarins	153,275	0
Oranges	503,504	0
Custard Apples	1,700	0
Kiwifruit	13,734	Oth
Lychees	2,700	All
Mangoes	63,796	Art
Melons - Combined	225,727	Asp
Muskmelons	66,932	Bea
Watermelons	158,795	Bee
Nashi	4,214	Bro

Year Ending June 2016	Production (t)
Passionfruit	5,196
Papaya/Pawpaw	16,729
Persimmons	2,660
Pears	117,677
Pineapples	75,376
Summerfruit - Combined	134,114
Apricots	7,392
Nectarines/Peaches	97,842
Plums	28,881
Table Grapes	178,595
Processing Fruit Combined*	224,105
Dried Grapes	52,312
Prunes*	10,952
Other Dried Tree Fruit*	1,282
Canned Fruit*	50,042
Olives	109,516
Other Fruit	8,414
All Vegetables	3,567,262
Artichokes	386
Asparagus	7,576
Beans	28,935
Beetroot	13,716
Broccoli/Baby Broccoli	73,026

Note: The processed fruit lines marked with an asterisk (*) do not contribute to total fruit production, as they have been counted towards the total in their respective categories (eg production of canning pineapples are already counted in the pineapple category). The exceptions are dried grapes, which is not a part of the table grapes category, and olives, which is not part of another fruit category.

Year Ending June 2016	Production (t)	Year Ending June 2016	Production (t)
Brussels Sprouts	5,626	Potatoes	1,343,019
Cabbage	69,454	Pumpkins	115,492
Capsicums	72,533	Sweet Corn	59,642
Carrots	310,813	Sweetpotatoes	59,135
Cauliflower	65,930	Tomatoes	521,449
Celery	60,873	Zucchini	35,997
Chillies	2,165	Other Vegetables	24,435
Cucumbers	86,434	All Nuts	182,231
Eggplant	8,713	Almonds (Inshell)**	117,619
Eng.Spinach/Silverbeet/Kale	7,110	Chestnuts (Inshell)	893
Fresh Herbs - Combined	11,275	Hazelnuts (Inshell)**	486
Fennel	1,189	Macadamias (Inshell)	48,620
Parsley and Other Herbs	10,087	Pecans (Inshell)	3,353
Garlic	1,825	Walnuts (Inshell)	6,500
Ginger	7,630	Other Nuts (Inshell)	4,761
Leafy Asian Vegetables	28,310	Other Horticulture	N/A
Leafy Salad Vegetables	49,126	Cut Flowers	N/A
Leeks	9,379	Nursery	N/A
Head Lettuce	126,635	Turf	N/A
Mushrooms	64,276		
Onions	260,674		
Parsnips	3,432		
Peas	32,241		

*Note: Total in-shell nut production includes the volumes of almonds and hazelnuts (marked with **) in an in-shell equivalent weight.*

Sources: ABS; GTA; IRB; MP & DD (Freshlogic Analysis)



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Production Value

The table below summarises the **Value of Production** in **million dollars** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Production (\$m)	Y
All Horticultural Products	\$11,336.9	Pass
All Fruit	\$4,594.0	Рара
Apples	\$441.5	Pers
Avocados	\$412.3	Pear
Bananas	\$403.9	Pine
Berries - Combined	\$658.9	Sum
Blueberries	\$149.6	Ap
Rubus Berries	\$127.6	Ne
Strawberries	\$381.6	PI
Cherries	\$164.2	Table
Citrus - Combined	\$678.5	Proc
Grapefruit	\$16.4	Dr
Lemons/Limes	\$113.4	Pr
Mandarins	\$246.4	Ot
Oranges	\$302.2	Ca
Custard Apples	\$6.8	OI
Kiwifruit	\$30.3	Othe
Lychees	\$27.8	All V
Mangoes	\$210.3	Artic
Melons - Combined	\$165.8	Aspa
Muskmelons	\$70.7	Bear
Watermelons	\$95.1	Beet
Nashi	\$11.6	Broc

Year Ending June 2016	Production (\$m)
Passionfruit	\$17.2
Papaya/Pawpaw	\$28.4
Persimmons	\$10.3
Pears	\$116.4
Pineapples	\$55.0
Summerfruit - Combined	\$368.2
Apricots	\$31.8
Nectarines/Peaches	\$272.4
Plums	\$64.0
Table Grapes	\$514.5
Processing Fruit Combined*	\$273.3
Dried Grapes	\$33.0
Prunes*	\$7.9
Other Dried Tree Fruit*	\$0.4
Canned Fruit*	\$15.2
Olives	\$216.8
Other Fruit	\$22.6
All Vegetables	\$3,804.0
Artichokes	\$1.0
Asparagus	\$53.5
Beans	\$69.1
Beetroot	\$10.9
Broccoli/Baby Broccoli	\$210.0

Data Tables—Value of Production



Note: The processed fruit lines marked with an asterisk (*) do not contribute to total fruit value, as they have been counted towards the total in their respective categories (eg value of canning pineapples are already counted in the pineapple category). The exceptions are dried grapes, which is not a part of the table grapes category, and olives, which is not part of another fruit category.

Year Ending June 2016	Production (\$m)	Year Ending June 2016	Production (\$m)
Brussels Sprouts	\$16.3	Potatoes	\$659.7
Cabbage	\$42.6	Pumpkins	\$68.2
Capsicums	\$138.9	Sweet Corn	\$65.7
Carrots	\$204.3	Sweetpotatoes	\$60.5
Cauliflower	\$41.8	Tomatoes	\$541.6
Celery	\$50.1	Zucchini	\$60.5
Chillies	\$8.5	Other Vegetables	\$65.8
Cucumbers	\$164.2	All Nuts	\$1,183.5
Eggplant	\$16.0	Almonds (Kernel)	\$854.1
Eng.Spinach/Silverbeet/Kale	\$20.2	Chestnuts (Inshell)	\$8.8
Fresh Herbs - Combined	\$133.5	Hazelnuts (Kernel)	\$2.0
Fennel	\$2.2	Macadamias (Inshell)	\$247.3
Parsley and Other Herbs	\$131.4	Pecans (Inshell)	\$24.2
Garlic	\$7.7	Walnuts (Inshell)	\$23.0
Ginger	\$19.3	Other Nuts (Inshell)	\$24.1
Leafy Asian Vegetables	\$63.0	Other Horticulture	\$1,755.3
Leafy Salad Vegetables	\$271.9	Cut Flowers	\$270.2
Leeks	\$18.5	Nursery	\$1,171.2
Head Lettuce	\$145.5	Turf	\$314.0
Mushrooms	\$353.2		
Onions	\$157.7		
Parsnips	\$9.1]	
Peas	\$55.2]	

Sources: ABS; AC; CFVIWA; GTA; IRB; MP & DD (Freshlogic Analysis)



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Volume of Fresh Exports

The table below summarises the **Volume of Fresh Exports** in **tonnes** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Fresh Export Volume (t)	
All Horticultural Products	689,903	Pa
All Fruit	393,987	Ра
Apples	4,665	Pe
Avocados	1,546	Pe
Bananas		Pir
Berries - Combined	3,265	Su
Blueberries	254	
Rubus Berries	2	
Strawberries	3,010	
Cherries	5,593	Та
Citrus - Combined	214,164	Pro
Grapefruit	438	
Lemons/Limes	4,088	
Mandarins	48,974	
Oranges	160,580	
Custard Apples	85	
Kiwifruit	1,004	Ot
Lychees	440	All
Mangoes	7,006	Ar
Melons - Combined	19,243	As
Muskmelons	13,790	Be
Watermelons	5,453	Be
Nashi		Bro

Year Ending June 2016	Fresh Export Volume (t)
Passionfruit	
Papaya/Pawpaw	89
Persimmons	195
Pears	12,260
Pineapples	
Summerfruit - Combined	14,366
Apricots	601
Nectarines/Peaches	10,018
Plums	3,748
Table Grapes	110,007
Processing Fruit Combined*	
Dried Grapes*	
Prunes*	
Other Dried Tree Fruit*	
Canned Fruit*	
Olives*	
Other Fruit	59
All Vegetables	209,498
Artichokes	7
Asparagus	4,086
Beans	1,787
Beetroot	236
Broccoli/Baby Broccoli	5,373

Year Ending June 2016	Fresh Export
	Volume (t)
Brussels Sprouts	308
Cabbage	2,118
Capsicums	479
Carrots	100,214
Cauliflower	733
Celery	3,557
Chillies	5
Cucumbers	59
Eggplant	7
Eng.Spinach/Silverbeet/Kale	157
Fresh Herbs - Combined	
Fennel	
Parsley and Other Herbs	
Garlic	71
Ginger	32
Leafy Asian Vegetables	
Leafy Salad Vegetables	922
Leeks	149
Head Lettuce	750
Mushrooms	59
Onions	43,888
Parsnips	
Peas	10

Year Ending June 2016	Fresh Export Volume (t)
Potatoes	37,212
Pumpkins	1,869
Sweet Corn	
Sweetpotatoes	739
Tomatoes	939
Zucchini	
Other Vegetables	3,732
All Nuts	86,418
Almonds*	60,633
Chestnuts*	
HazeInuts*	51
Macadamias*	19,366
Pecans*	958
Walnuts*	2,910
Other Nuts*	2,499
Other Horticulture	N/A
Cut Flowers	N/A
Nursery	N/A
Turf	N/A

*Note: Nut exports includes both the kernel and in-shell form. Further information on volumes of each type is provided on pages 420 to 453.

Sources: GTA; IRB; (Freshlogic Analysis)









Value of Fresh Exports

The table below summarises the **Value of Fresh Exports** in **million dollars** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Fresh Export Value (\$m)	Year En
All Horticultural Products	\$2,111.8	Passionfru
All Fruit	\$936.6	Papaya/Pa
Apples	\$12.4	Persimmor
Avocados	\$9.2	Pears
Bananas		Pineapples
Berries - Combined	\$31.1	Summerfru
Blueberries	\$5.2	Apricots
Rubus Berries	<\$0.1	Nectarin
Strawberries	\$25.8	Plums
Cherries	\$76.1	Table Grap
Citrus - Combined	\$297.3	Processing
Grapefruit	\$0.7	Dried Gr
Lemons/Limes	\$9.6	Prunes*
Mandarins	\$84.8	Other Dr
Oranges	\$202.1	Canned
Custard Apples	\$0.4	Olives*
Kiwifruit	\$4.2	Other Fruit
Lychees	\$5.5	All Vegetal
Mangoes	\$30.9	Artichokes
Melons - Combined	\$31.0	Asparagus
Muskmelons	\$24.0	Beans
Watermelons	\$7.0	Beetroot
Nashi		Broccoli/Ba

Year Ending June 2016	Fresh Export Value (\$m)
Passionfruit	
Papaya/Pawpaw	\$0.2
Persimmons	\$1.0
Pears	\$21.7
Pineapples	
Summerfruit - Combined	\$48.3
Apricots	\$2.5
Nectarines/Peaches	\$33.8
Plums	\$11.9
Table Grapes	\$367.3
Processing Fruit Combined*	
Dried Grapes*	
Prunes*	
Other Dried Tree Fruit*	
Canned Fruit*	
Olives*	
Other Fruit	<\$0.1
All Vegetables	\$232.1
Artichokes	<\$0.1
Asparagus	\$25.1
Beans	\$5.8
Beetroot	\$0.7
Broccoli/Baby Broccoli	\$14.5

Year Ending June 2016	Fresh Export
fear Ending June 2016	Value (\$m)
Brussels Sprouts	\$1.3
Cabbage	\$3.4
Capsicums	\$1.6
Carrots	\$80.8
Cauliflower	\$1.6
Celery	\$5.2
Chillies	<\$0.1
Cucumbers	\$0.2
Eggplant	<\$0.1
Eng.Spinach/Silverbeet/Kale	\$1.3
Fresh Herbs - Combined	
Fennel	
Parsley and Other Herbs	
Garlic	\$0.2
Ginger	\$0.3
Leafy Asian Vegetables	
Leafy Salad Vegetables	\$5.1
Leeks	\$0.6
Head Lettuce	\$2.0
Mushrooms	\$4.1
Onions	\$28.6
Parsnips	
Peas	<\$0.1

Year Ending June 2016	Fresh Export Value (\$m)
Potatoes	\$25.9
Pumpkins	\$2.9
Sweet Corn	
Sweetpotatoes	\$0.9
Tomatoes	\$3.0
Zucchini	
Other Vegetables	\$16.7
All Nuts	\$929.5
Almonds*	\$616.2
Chestnuts*	
Hazelnuts*	\$0.9
Macadamias*	\$253.2
Pecans*	\$10.6
Walnuts*	\$14.2
Other Nuts*	\$34.4
Other Horticulture	\$13.5
Cut Flowers	\$7.8
Nursery	\$5.7
Turf	

*Note: Nut exports includes both the kernel and in-shell form. Further information on volumes of each type is provided on pages 420 to 453.

Sources: GTA; IRB; (Freshlogic Analysis)









Volume of Fresh Imports

The table below summarises the **Volume of Fresh Imports** in **tonnes** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Fresh Import Volume (t)	
All Horticultural Products	178,551	Pas
All Fruit	109,802	Pap
Apples	619	Per
Avocados	13,108	Pea
Bananas		Pin
Berries - Combined	1,446	Sur
Blueberries	1,432	ŀ
Rubus Berries		1
Strawberries	14	F
Cherries	1,505	Tab
Citrus - Combined	25,493	Pro
Grapefruit	1,036	C
Lemons/Limes	6,464	F
Mandarins	3,375	(
Oranges	14,587	(
Custard Apples		(
Kiwifruit	23,254	Oth
Lychees		All
Mangoes	887	Art
Melons - Combined		Asp
Muskmelons		Bea
Watermelons		Bee
Nashi		Bro

Year Ending June 2016	Fresh Import Volume (t)
Passionfruit	
Papaya/Pawpaw	106
Persimmons	546
Pears	1,487
Pineapples	
Summerfruit - Combined	5,351
Apricots	900
Nectarines/Peaches	3,653
Plums	798
Table Grapes	13,784
Processing Fruit Combined*	
Dried Grapes*	
Prunes*	
Other Dried Tree Fruit*	
Canned Fruit*	
Olives*	
Other Fruit	22,216
All Vegetables	30,836
Artichokes	1
Asparagus	3,679
Beans	487
Beetroot	10
Broccoli/Baby Broccoli	

Year Ending June 2016	Fresh Import Volume (t)
Brussels Sprouts	
Cabbage	
Capsicums	1,492
Carrots	13
Cauliflower	
Celery	
Chillies	15
Cucumbers	1
Eggplant	4
Eng.Spinach/Silverbeet/Kale	29
Fresh Herbs - Combined	
Fennel	
Parsley and Other Herbs	
Garlic	12,521
Ginger	145
Leafy Asian Vegetables	
Leafy Salad Vegetables	
Leeks	
Head Lettuce	
Mushrooms	2,508
Onions	4,670
Parsnips	
Peas	570

Year Ending June 2016	Fresh Import Volume (t)
Potatoes	
Pumpkins	2
Sweet Corn	
Sweetpotatoes	82
Tomatoes	1,386
Zucchini	
Other Vegetables	3,222
All Nuts	37,913
Almonds*	1,563
Chestnuts*	
HazeInuts*	2,972
Macadamias*	1,506
Pecans*	
Walnuts*	5,137
Other Nuts*	26,735
Other Horticulture	N/A
Cut Flowers	N/A
Nursery	N/A
Turf	N/A

*Note: Nut imports includes both the kernel and in-shell form. Further information on volumes of each type is provided on pages 420 to 453.

Sources: GTA; IRB; (Freshlogic Analysis)









Value of Fresh Imports

The table below summarises the **Value of Fresh Imports** in **million dollars** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Fresh Import Value (\$m)	Year Er
All Horticultural Products	\$978.2	Passionfru
All Fruit	\$362.9	Papaya/Pa
Apples	\$1.6	Persimmo
Avocados	\$63.6	Pears
Bananas		Pineapple
Berries - Combined	\$29.9	Summerfr
Blueberries	\$29.8	Apricots
Rubus Berries		Nectari
Strawberries	<\$0.1	Plums
Cherries	\$11.9	Table Grap
Citrus - Combined	\$56.1	Processing
Grapefruit	\$1.8	Dried G
Lemons/Limes	\$19.7	Prunes*
Mandarins	\$9.1	Other D
Oranges	\$25.3	Canned
Custard Apples		Olives*
Kiwifruit	\$50.4	Other Frui
Lychees		All Vegeta
Mangoes	\$5.1	Artichokes
Melons - Combined		Asparagus
Muskmelons		Beans
Watermelons		Beetroot
Nashi		Broccoli/B

Year Ending June 2016	Fresh Import Value (\$m)
Passionfruit	
Papaya/Pawpaw	\$0.3
Persimmons	\$2.9
Pears	\$2.6
Pineapples	
Summerfruit - Combined	\$24.1
Apricots	\$4.7
Nectarines/Peaches	\$15.4
Plums	\$4.0
Table Grapes	\$66.1
Processing Fruit Combined*	
Dried Grapes*	
Prunes*	
Other Dried Tree Fruit*	
Canned Fruit*	
Olives*	
Other Fruit	\$48.3
All Vegetables	\$105.8
Artichokes	<\$0.1
Asparagus	\$21.6
Beans	\$0.8
Beetroot	<\$0.1
Broccoli/Baby Broccoli	

Year Ending June 2016	Fresh Import Value (\$m)	
Brussels Sprouts		
Cabbage	<\$0.1	
Capsicums	\$5.4	
Carrots	<\$0.1	
Cauliflower		
Celery		
Chillies	\$0.2	
Cucumbers	<\$0.1	
Eggplant	<\$0.1	
Eng.Spinach/Silverbeet/Kale	<\$0.1	
Fresh Herbs - Combined		
Fennel		
Parsley and Other Herbs		
Garlic	\$36.9	
Ginger	\$0.9	
Leafy Asian Vegetables		
Leafy Salad Vegetables		
Leeks		
Head Lettuce		
Mushrooms	\$9.2	
Onions	\$4.4	
Parsnips		
Peas	\$2.3	

Year Ending June 2016	Fresh Import Value (\$m)
Potatoes	
Pumpkins	<\$0.1
Sweet Corn	
Sweetpotatoes	\$0.5
Tomatoes	\$2.9
Zucchini	
Other Vegetables	\$20.4
All Nuts	\$401.7
Almonds*	\$20.8
Chestnuts*	
HazeInuts*	\$44.9
Macadamias*	\$2.8
Pecans*	
Walnuts*	\$50.9
Other Nuts*	\$282.3
Other Horticulture	\$107.7
Cut Flowers	\$67.3
Nursery	\$40.4
Turf	

*Note: Nut imports includes both the kernel and in-shell form. Further information on volumes of each type is provided on pages 420 to 453.

Sources: GTA; IRB; (Freshlogic Analysis)







Fresh Supply Volume

The table below summarises the **Volume of Fresh Supply** in **tonnes** of all products profiled in this statistics handbook, where appropriate, for the year ending June 2016.

Year Ending June 2016	Fresh Supply (t)	
All Horticultural Products	3,882,775	F
All Fruit	1,708,385	F
Apples	219,811	F
Avocados	75,608	F
Bananas	394,694	F
Berries - Combined	70,142	S
Blueberries	7,939	
Rubus Berries	4,504	
Strawberries	57,698	
Cherries	13,444	T
Citrus - Combined	305,415	F
Grapefruit	12,616	
Lemons/Limes	43,079	
Mandarins	104,670	
Oranges	145,050	
Custard Apples	1,615	
Kiwifruit	35,984	6
Lychees	2,260	F
Mangoes	53,886	A
Melons - Combined	203,599	A
Muskmelons	51,829	E
Watermelons	151,770	E
Nashi	4,214	E

Year Ending June 2016	Fresh Supply (t)
Passionfruit	4,868
Papaya/Pawpaw	16,516
Persimmons	2,932
Pears	58,762
Pineapples	47,486
Summerfruit - Combined	102,852
Apricots	6,358
Nectarines/Peaches	82,062
Plums	14,432
Table Grapes	82,372
Processing Fruit Combined*	
Dried Grapes*	
Prunes*	
Other Dried Tree Fruit*	
Canned Fruit*	
Olives*	
Other Fruit	11,924
All Vegetables	2,100,637
Artichokes	380
Asparagus	7,169
Beans	27,635
Beetroot	5,260
Broccoli/Baby Broccoli	64,025



Note: The processed fruit lines marked with an asterisk (*) do not contribute to total fresh fruit supply volume because they are sold in a processed form.

Year Ending June 2016	Fresh Supply (t)	
Brussels Sprouts	4,303	Pot
Cabbage	56,742	Pu
Capsicums	69,440	Sw
Carrots	191,626	Sw
Cauliflower	59,754	Tor
Celery	56,417	Zuo
Chillies	1,675	Otl
Cucumbers	81,745	All
Eggplant	8,132	Aln
Eng.Spinach/Silverbeet/Kale	6,462	Che
Fresh Herbs - Combined	10,853	Ha
Fennel	1,154	Ma
Parsley and Other Herbs	9,699	Pe
Garlic	10,043	Wa
Ginger	3,965	Otl
Leafy Asian Vegetables	28,310	Otl
Leafy Salad Vegetables	39,381	Cut
Leeks	8,974	Nu
Head Lettuce	125,180	Tur
Mushrooms	64,975	
Onions	204,381	
Parsnips	3,332	
Peas	7,008	

Year Ending June 2016	Fresh Supply (t)
Potatoes	452,951
Pumpkins	110,480
Sweet Corn	27,359
Sweetpotatoes	56,890
Tomatoes	247,049
Zucchini	35,325
Other Vegetables	23,418
All Nuts	73,753
Almonds	29,058
Chestnuts	893
HazeInuts	3,287
Macadamias	4,139
Pecans	1,290
Walnuts	6,723
Other Nuts	2,499
Other Horticulture	N/A
Cut Flowers	N/A
Nursery	N/A
Turf	N/A

Sources: ABS; GTA; IRB; MP & DD (Freshlogic Analysis)



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the year ending June 2016.

Year Ending June 2016

All Horticultural Products

All Fruit Apples Avocados Bananas

Berries - Combined Blueberries Rubus Berries

Strawberries

Citrus - Combined Grapefruit Lemons/Limes Mandarins

Oranges Custard Apples

Kiwifruit Lychees

Mangoes

Nashi

Melons - Combined Muskmelons Watermelons

Cherries

The table below summarises the **Wholesale Value** of the Fresh Supply in **million dollars** of all products profiled in this statistics handbook, where appropriate, for

Fresh Supply Wholesale Value

Data Tables—Wholesale Value

Wholesale

Note: The processed fruit lines marked with an asterisk (*) do not contribute to total fresh fruit wholesale value because they are sold in a processed form.

Wholesale Value (\$m)	Year Ending June 2016	Wholesale Value (\$m)
\$11,287.5	Passionfruit	\$20.1
\$4,410.1	Papaya/Pawpaw	\$33.4
\$490.2	Persimmons	\$13.5
\$514.5	Pears	\$110.0
\$489.4	Pineapples	\$50.7
\$776.1	Summerfruit - Combined	\$393.1
\$211.0	Apricots	\$39.8
\$149.1	Nectarines/Peaches	\$296.8
\$416.0	Plums	\$56.4
\$130.8	Table Grapes	\$285.8
\$525.7	Processing Fruit Combined*	
\$20.2	Dried Grapes*	
\$144.9	Prunes*	
\$211.4	Other Dried Tree Fruit*	
\$149.2	Canned Fruit*	
\$7.5	Olives*	
\$88.9	Other Fruit	\$61.0
\$27.1	All Vegetables	\$3,998.7
\$214.9	Artichokes	\$1.1
\$163.8	Asparagus	\$77.8
\$59.1	Beans	\$76.8
\$104.7	Beetroot	\$10.6
\$13.6	Broccoli/Baby Broccoli	\$231.7

Year Ending June 2016	Wholesale Value (\$m)	Year Ending June
Brussels Sprouts	\$17.5	Potatoes
Cabbage	\$46.0	Pumpkins
Capsicums	\$164.6	Sweet Corn
Carrots	\$158.3	Sweetpotatoes
Cauliflower	\$47.2	Tomatoes
Celery	\$53.6	Zucchini
Chillies	\$9.8	Other Vegetables
Cucumbers	\$192.1	All Nuts
Eggplant	\$18.6	Almonds
Eng.Spinach/Silverbeet/Kale	\$22.5	Chestnuts
Fresh Herbs - Combined	\$156.6	Hazelnuts
Fennel	\$2.5	Macadamias
Parsley and Other Herbs	\$154.0	Pecans
Garlic	\$70.3	Walnuts
Ginger	\$20.8	Other Nuts
Leafy Asian Vegetables	\$74.2	Other Horticulture
Leafy Salad Vegetables	\$308.6	Cut Flowers
Leeks	\$21.1	Nursery
Head Lettuce	\$169.0	Turf
Mushrooms	\$426.9	
Onions	\$159.4	
Parsnips	\$10.7	
Peas	\$52.1	

Ŭ	Value (Şm)
Potatoes	\$440.0
Pumpkins	\$77.1
Sweet Corn	\$70.0
Sweetpotatoes	\$70.2
Tomatoes	\$605.3
Zucchini	\$71.0
Other Vegetables	\$67.3
All Nuts	\$868.0
Almonds	\$385.1
Chestnuts	\$10.3
Hazelnuts	\$48.7
Macadamias	\$89.1
Pecans	\$18.6
Walnuts	\$84.0
Other Nuts	\$232.1
Other Horticulture	\$1,948.2
Cut Flowers	\$368.1
Nursery	\$1,266.2
Turf	\$314.0

e 2016

Sources: ABS; AC; CFVIWA; GTA; IRB; MP & DD (Freshlogic Analysis)



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All Horticulture

Year Ending June

Fresh Supply Wholesale Value (\$m) \$10,403.5

Sources: ABS; AC; CFVIWA; GTA; IRB; MP & DD (Freshlogic Analysis)

453,808

176.014

Fresh Exports

All Fresh Horticulture International Trade

Consumption per Capita (kg supply)

imports are counted as negative tonnes.

800,000

700,000

600,000

500,000 400,000

300,000

200,000

100,000

-300.000

0 -100,000 -200,000

International trade (tonnes)

Source: GTA

Production (t)

Production (\$m)

Fresh Supply (t)

Production area (Ha)

Fresh Export Volume (t)

Fresh Export Value (\$m)

Fresh Import Volume (t)

Fresh Import Value (\$m)

2014

Value

5.831.863

\$10.004.3

_

\$ 1,363.0 \$ 1,554.0

530.517

183,385

\$ 804.8

3.630.044

154.75

Australia is a net exporter of fresh horticultural products. For the year ending

June 2016 Australia exported 689,903 tonnes of fresh horticultural products (not

including nursery and flower categories), as profiled in the graph below, where

513.430

168,901

2011/12 2012/13

2015

% YoY

+5%

+9%

+2%

+14%

+6%

+16%

+5%

+9%

+3%

540,902

194.226

Fresh Imports --- Net Trade

2014/15 2015/16

Value

6.100.172

\$10,892.5

540.902

194.226

\$ 936.7

3.796.594

\$11,339.2

530,517

183,385

2013/14

159.64



% YoY

+4%

+4%

+28%

+36%

-8%

+4%

+2%

-1%

<1%

2016

Value

6.358.805

\$11.336.9

689.903

178.551

978.2

\$ 2,111.8

3.882.775

\$11,225.0

689,903

178,551

161.05

Ś

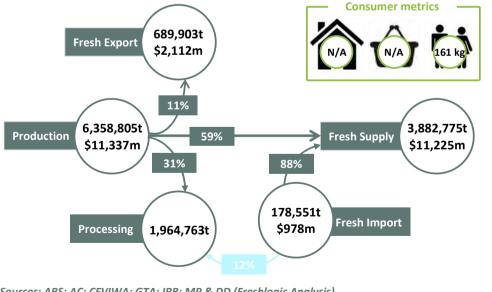
All Fresh Horticulture Overview

Pages 48-50 profile total horticultural production and trade. It combines information on fruit, vegetables, nuts and other horticultural categories (cut flowers, nursery and turf).

For the year ending June 2016:

- 6.36 million tonnes of horticultural products (not including cut flowers, nursery and turf products) was produced in Australia.
- The value of production for all categories was **\$11.34 billion** while the wholesale value of the fresh supply was \$11.22 billion.
- The consumption per capita was **161.05 kg**, based on volume supplied.





Sources: ABS; AC; CFVIWA; GTA; IRB; MP & DD (Freshlogic Analysis)



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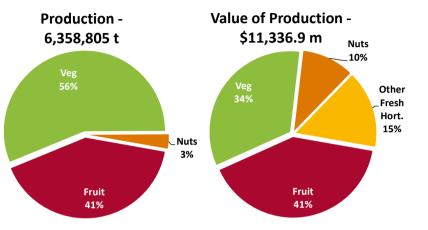






Production

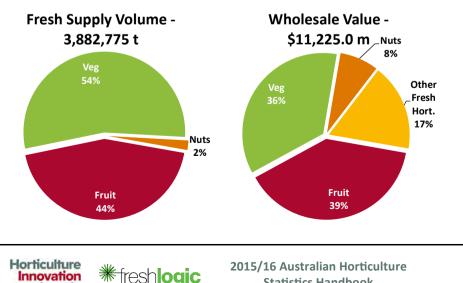
The charts below profile the share of total Australian production of all horticultural categories during the year ending June 2016. For the below charts, only the value of the Other Fresh Horticulture grouping has been recorded, due to inconsistencies in the units used to measure volumes for this group.



Fresh supply

Australia

The charts below profile the share of the total fresh supply of all horticultural categories during the year ending June 2016.

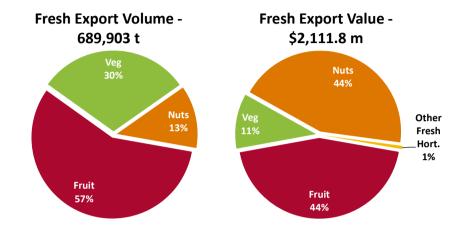


Statistics Handbook

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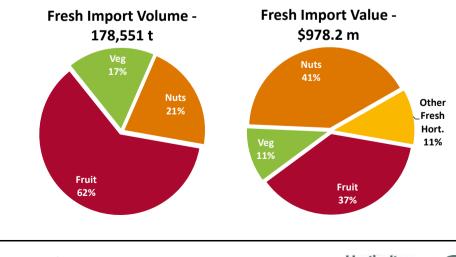
Fresh exports

The charts below profile the share of total Australian fresh exports of all horticultural categories during the year ending June 2016.



Fresh imports

The charts below profile the share of total Australian fresh imports of all horticultural categories during the year ending June 2016.



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Horticulture *****freshloaic Innovation 51 Australia



All Nuts — Overview

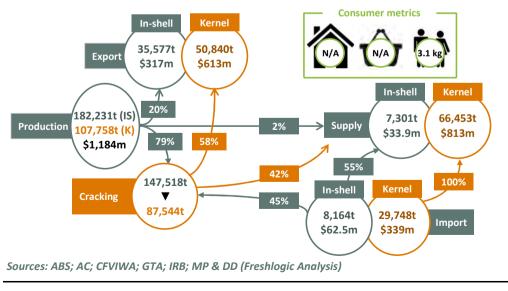
Pages 418-419 profile total nut production and trade. It combines information on all nut categories covered in this handbook*.

For the year ending June 2016:

- 182,231 t of nuts (in-shell weight) was produced with a kernel equivalent weight of 107.758 t.
- The value of production was worth **\$1.18** billion while the wholesale value of nuts inshell and kernel supply was **\$868 billion**.
- 50% of Australian households purchased nuts. •
- The consumption per capita was **3.06 kg**, based on the volume supplied. ٠

*Up to date Pistachio data was not available.

All Nuts Supply Chain—Year Ending June 2016





2015/16 Australian Horticulture **₩**fresh**loaic Statistics Handbook**

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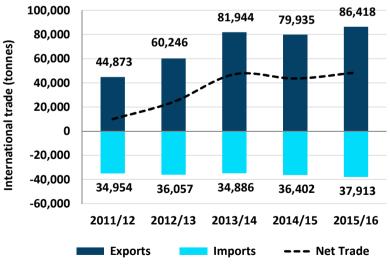
Veer Freing lune		2014	2015		201	6	
Year Ending June	'	Value	Value	% YoY	Value	% YoY	
Production (ISWE t)		153,341	183,925	+20%	182,231	>-1%	
Production (\$m)	\$	764.5	\$ 1,027.5	+34%	\$ 1,183.5	+15%	
Production area (Ha)		51,970	53,506	+3%	61,426	+15%	
Export Volume (Actual t)		81,944	79,935	- 2%	86,418	+8%	
Export Value (\$m)	\$	608.9	\$ 737.1	+21%	\$ 929.5	+26%	
Import Volume (Actual t)		34,886	36,402	+4%	37,913	+4%	
Import Value (\$m)	\$	294.7	\$ 355.7	+21%	\$ 401.7	+13%	
Supply (Actual t)		55,809	80,558	+44%	73,753	-8%	
Supply Wholesale Value (\$m)	\$	564.1	\$ 904.9	+60%	\$ 868.0	-4%	
Consumption per Capita (kg supply)		2.38	3.39	+42%	3.06	-10%	

Sources: ABS; AC; CFVIWA; GTA; IRB; MP & DD (Freshlogic Analysis)

All Nuts International Trade

Australia is a net exporter of nuts. For the year ending June 2016 Australia exported **86,418 tonnes** of nuts, as profiled in the graph below, where imports are counted as negative tonnes.

Net All Nuts International Trade (Actual tonnes)



Source: GTA: IRB





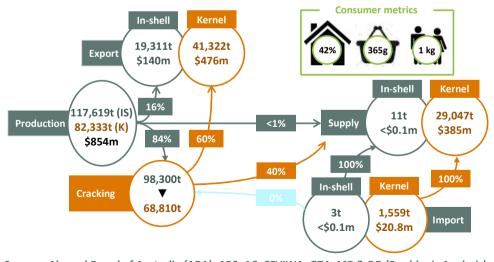
Almond Overview

Almonds are grown in the south of Australia, with the majority of production occurring along the Murray River downstream of Swan Hill. The industry has a strong export market focus, with 3 tonnes sold overseas for every tonne sold domestically. The majority of almonds are cracked and sold in kernel form.

For the year ending June 2016:

- 117,619 t of almonds (in-shell weight) was produced, with a kernel equivalent weight of 82,333 t.
- The value of production was worth **\$854.1 m** while the wholesale value of almonds in-shell and kernel supply was **\$385.1 m**.
- 42% of Australian households purchased packaged almonds, buying an average of 365 g per shopping trip.
- The consumption per capita of in-shell and kernel almonds was **1 kg**, when allowing for carry over of supply between growing years.

Almond Supply Chain — Year Ending June 2016



Sources: Almond Board of Australia (ABA); ABS; AC; CFVIWA; GTA; MP & DD (Freshlogic Analysis)



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Almonds



Year Ending June		2014	2015				2016			
real chung june	1	Value	١	Value	% YoY	,	Value	% YoY		
Production (KWE t)		65,060		82,509	+27%		82,333	>-1%		
Production (\$m)	\$	465.6	\$	707.5	+52%	\$	854.1	+21%		
Production area (Ha)		29,390		30,886	+5%		35,636	+15%		
Export Volume (KWE t)		57,577		51,732	- 10%		54,840	+6%		
Export Value (\$m)	\$	463.1	\$	521.8	+13%	\$	616.2	+18%		
Import Volume (KWE t)		1,888		2,365	+25%		1,562	- 3 4%		
Import Value (\$m)	\$	15.3	\$	25.3	+66%	\$	20.8	-18%		
Supply (KWE t)		9,371		33,142	>100%		29,055	-12%		
Supply Wholesale Value (\$m)	\$	85.7	\$	363.6	>100%	\$	385.1	+6%		
Consumption per Capita (kg supply)		0.93		0.97	+4%		1.00	+3%		

Sources: ABA; ABS; AC; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

*Note: all volumes quoted in the table above are in Kernel Weight Equivalent (KWE).

Major Almond Production Areas

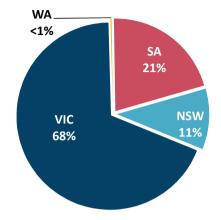
Almonds are produced in the southern states of Australia, predominantly in the Victorian region of **Sunraysia**. Other major production regions include the **Riverland region** of South Australia and the **Riverina** in New South Wales.



Source: ABA







Sources: ABA; ABS

Almond Harvest Season by State (Kernel)

State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	8,727												
Victoria	56,316												
South Australia	17,125												
Western Australia	165												
Harvest legend			Har	vest		En	d of I	Harve	est			None	

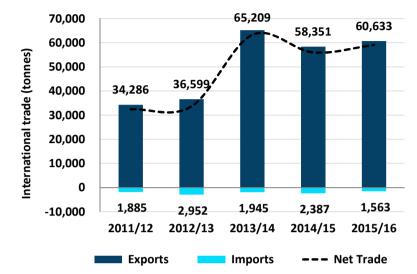
Source: ABA

Almond International Trade (In-shell and Kernel)

Exports of almonds have been increasing in recent years as local production has increased. Exports are a mix of both in-shell and kernel, while the majority of imports are in kernel form. For the year ending June 2016, Australia exported **19,311 tonnes** of in-shell almonds (**38%** of combined exports) and **41,322 tonnes** of kernel almonds (**62%** of exports). This equates to **60,633 tonnes** exported in 2015/16, or **54,840 tonnes in kernel equivalent weight (KWE)**. Australia imported **3.5 tonnes** of in-shell almonds (**<1%** of almond imports) and **1,559** tonnes of kernel almonds (**99%** of imports). The exports and imports over the last 5 financial years is profiled in the graph to the right, where imports are counted as negative tonnes, and all information is provided in total volume, rather than KWE.

Net Almond International Trade (actual tonnes)

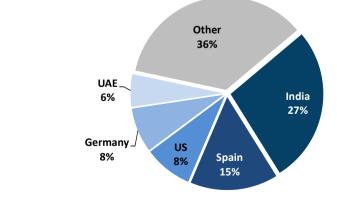
Almonds



Source: GTA

For the year ending June 2016, **27%** of exported almonds *(both in-shell and kernel)* were sent to India, as profiled in the chart below.

2015/16 Almond Export by Country



Source: GTA

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Almond Imports by State and Exports by Departing State (Both In-Shell and Kernel)

Impo	rts by state	(Tonnes)		Exports by Departing state (Tonnes)						
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016			
Victoria	1,657	1,688	1,183	Victoria	52,773	44,435	45,707			
South Australia	82	281	243	South Australia	12,000	11,681	13,136			
New South Wales	131	363	137	New South Wales	72	16	151			
Western Australia	29	55	< 0.5	Tasmania	39	-	22			
Queensland	47	-	-	Queensland	106	55	11			
Other	-	-	< 0.5	Other	220	2,164	1,605			
TOTAL	1,945	2,387	1,563	TOTAL	65,209	58,351	60,633			

Almond Imports and Exports by Country (Both In-Shell and Kernel)

Impor	ts by country	y (Tonnes)		Exports by country (Tonnes)						
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016			
US	1,461	2,167	907	India	22,799	21,508	16,520			
Spain	154	65	264	Spain	4,969	8,363	9,276			
Hong Kong	-	< 0.5	32	US	4,665	5,247	5,092			
Italy	< 0.5	2	12	Germany	4,226	3,529	4,732			
Pakistan	4	2	12	UAE	6,712	4,912	3,453			
Other	326	152	337	Other	21,838	14,792	21,561			
TOTAL	1,945	2,387	1,563	TOTAL	65,209	58,351	60,633			

Source: GTA





Horticulture Innovation Australia

2015/16 Australian Horticulture Statistics Handbook 21/06/2017





Chestnuts

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2014

Value

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2016

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893

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Value

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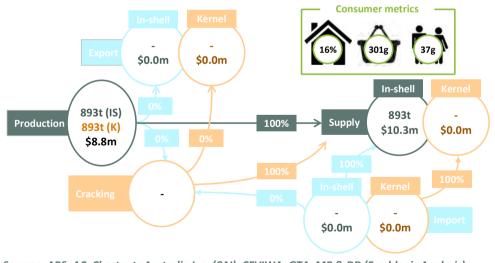
Chestn	ut O	verview

Chestnuts are grown in the south of Australia, with the majority of production occurring in Victoria. Chestnut production has a strong domestic market focus. Chestnuts are sold all in a fresh in-shell form.

For the year ending June 2016:

- 893 t was produced.
- The value of production was **\$8.8 m** while the wholesale value of the supply was \$10.3 m.
- 16% of Australian households purchased chestnuts, buying an average of **301** g per shopping trip.
- The consumption per capita was **37** g, based on the volume supplied.

Chestnut Supply Chain — Year ending June 2016



Sources: ABS; AC; Chestnuts Australia Inc. (CAI); CFVIWA; GTA; MP & DD (Freshlogic Analysis)



Sources: ABS; AC; CAI; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

Year Ending June

*Note: The previous edition of the handbook (2014/15 edition) stated all chestnuts were sold in a kernel form. This has been corrected to show supply in an in-shell form.

Major Chestnut Production Areas

Chestnuts are produced in the southern states of Australia, requiring a cooler climate. The major production region is in the north east of Victoria.



Source: CAI



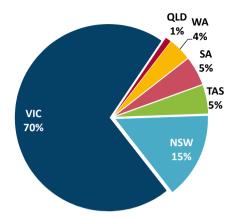
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2015/16 Chestnut Production by State



Sources: CAI

Chestnut Harvest Season by State (In Shell)

State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	134												
Victoria	625												
Queensland	9												
Western Australia	36												
South Australia	45												
Tasmania	45												
Harvest legend			Har	vest		En	d of I	Harve	est			None	

Sources: CAI







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Hazelnuts



Hazelnut Overview

Hazelnuts are grown in the south of Australia, with production occurring in Victoria and New South Wales. The majority of hazelnuts are cracked and sold in kernel form.

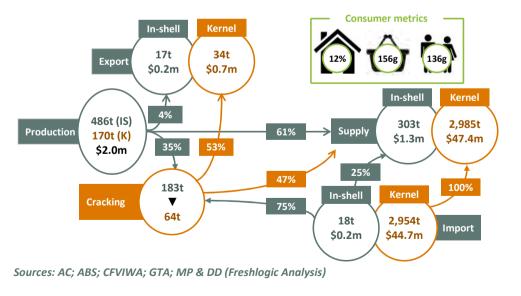
For the year ending June 2016:

 468 t of hazelnuts (in-shell weight) was produced with a kernel equivalent weight of 170 t.



- The value of production was worth \$2 m while the wholesale value of hazelnuts in-shell and kernel supply was \$48.7 m.
- **12%** of Australian households purchased hazelnuts, buying an average of **156** g per shopping trip.
- The consumption per capita of in-shell and kernel hazelnuts was **136** g, based on the volume supplied.

Hazelnut Supply Chain—Year Ending June 2016





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Year Ending June		2014		201	5	2016		
fear chung june	Value		Value		% YoY	Value		% YoY
Production (KWE t)		130		190	+46%		170	-11%
Production (\$m)	\$	1.2	\$	2.4	+94%	\$	2.0	- 16%
Production area (Ha)		190		190	-		200	+5%
Export Volume (KWE t)		30		45	+52%		40	-11%
Export Value (\$m)	\$	0.3	\$	0.9	>100%	\$	0.9	<1%
Import Volume (KWE t)		3,117		3,116	>-1%		2,961	-5%
Import Value (\$m)	\$	25.4	\$	40.2	+58%	\$	44.9	+12%
Supply (KWE t)		3,217		3,261	+1%		3,091	-5%
Supply Wholesale Value (\$m)	\$	38.5	\$	45.9	+19%	\$	48.7	+6%
Consumption per Capita (kg supply)		0.15		0.15	+1%		0.14	- 7 %

Sources: AC; ABS; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

*Note: all volumes quoted in the table above are in KWE.

Major Hazelnut Production Areas

Hazelnuts are produced in the southern states of Australia, requiring a cooler climate. The major production regions are in **Myrtleford** in Victoria and **Orange** in New South Wales.



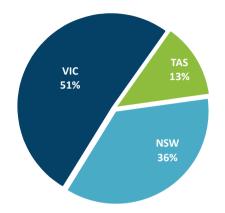
Source: HGA







2015/16 Hazelnut Production by State



Sources: (Freshlogic Analysis)

Hazelnut Harvest Season by State (Kernel)

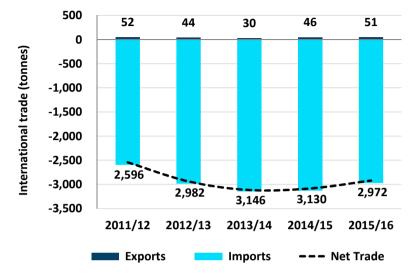
State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	61												
Victoria	87												
Tasmania	22												
Harvest legend			Har	vest		En	d of I	Harve	est			None	

Sources: (Freshlogic Analysis)

Hazelnut International Trade

Australia is a net importer of hazelnuts, with the majority of imports being in kernel form. For the year ending June 2016, Australia exported **17 tonne** of inshell hazelnuts (**33%** of hazelnut exports) and **34 tonnes** of kernel hazelnuts (**66%** of exports), while importing **18 tonnes** of in-shell hazelnuts (**<1%** of hazelnut imports) and **2,954** tonnes of kernel hazelnuts (**99%** of imports). The exports and imports over the last 5 financial years is profiled in the graph to the right, where imports are counted as negative tonnes. The majority of imports are classified as to which country they are sourced from.

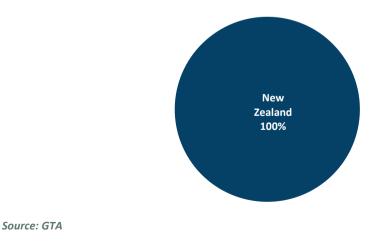
Net Hazelnut International Trade (actual tonnes)



Source: GTA

For the year ending June 2016, **100%** of exported hazelnuts were sent to New Zealand, as profiled in the chart below.

2015/16 Hazelnut Exports by Country





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HazeInut Imports and Exports by State (both In-shell and Kernel)

Impo	rts by state	(Tonnes)		Exports by Departing state (Tonnes)							
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016				
New South Wales	-	574	1,639	Victoria	29	40	44				
Victoria	45	413	1,163	New South Wales	-	< 0.5	-				
Queensland	-	43	150	Other	1	5	7				
Western Australia	-	-	20	TOTAL	30	46	51				
Other	3,101	2,100	-								
TOTAL	3,146	3,130	2,972								

Hazelnut Imports and Exports by Country (both In-shell and Kernel)

Impor	ts by countr	y (Tonnes)		Exports by country (Tonnes)				
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016	
Turkey	10	998	2,313	New Zealand	30	40	51	
Italy	-	-	420	Brunei	-	< 0.5	< 0.5	
Luxembourg	-	-	180	New Caledonia	-	5	-	
US	35	31	59	Hong Kong	< 0.5	< 0.5	-	
Other	3,101	2,100	< 0.5	Cambodia	< 0.5	< 0.5	-	
TOTAL	3,146	3,130	2,972	Other	< 0.5	< 0.5	< 0.5	
				TOTAL	30	46	51	

Source: GTA











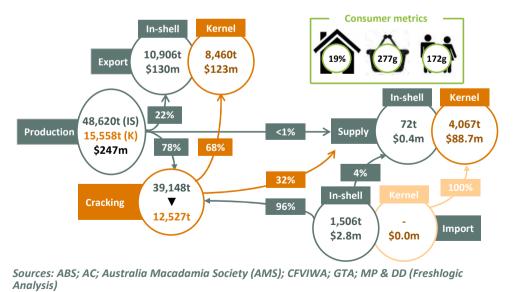
Macadamia Overview

The macadamia industry has benefited from a sound export focused growth agenda and now exports 74% of total production. Macadamia production occurs predominantly in northern NSW and Bundaberg. Majority are sold in kernel form, however there are also some export markets that prefer the in shell form. For the year ending June 2016:



- 48,620 t of macadamias (in-shell weight at 3.5% moisture) was produced with a kernel equivalent weight of 15,558 t.
- The value of production was worth **\$247.3 m** while the wholesale value of macadamias in-shell and kernel supply was **\$89.1 m**.
- 19% of Australian households purchased macadamias, buying an average of 277 g per shopping trip.
- The consumption per capita of in-shell and kernel macadamias was **172** g, based on the volume supplied.

Macadamia Supply Chain — Year Ending June 2016





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Macadamias



Year Ending June		2014		201	5	2016			
rear Ending Julie	Value		Value		% YoY	٦	Value	% YoY	
Production (KWE t)		13,045		14,452	+11%		15,558	+8%	
Production (\$m)	\$	207.1	\$	214.5	+4%	\$	247.3	+15%	
Production area (Ha)		16,500		16,500	-		19,000	+15%	
Export Volume (KWE t)		7,077		8,602	+22%		11,950	+39%	
Export Value (\$m)	\$	103.1	\$	152.4	+48%	\$	253.2	+66%	
Import Volume (KWE t)		31		177	>100%		482	>100%	
Import Value (\$m)	\$	0.5	\$	0.7	+43%	\$	2.8	>100%	
Supply (KWE t)		5,999		6,027	<1%		4,090	-32%	
Supply Wholesale Value (\$m)	\$	102.2	\$	111.7	+9%	\$	89.1	- 20 %	
Consumption per Capita (kg supply)		0.26		0.26	<1%		0.17	-34%	

Sources: ABS; AC; AMS; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

*Note: Production volumes of macadamias has been modified from the quoted volumes published in the previous edition of the handbook (2014/15 edition) and all volumes quoted in the table above are in KWE.

Major Macadamia Production Areas

Macadamias are produced in the northern states of Australia, with production predominantly occurring in the coastal region of northern New South Wales and south east Queensland. Major production areas include the **Northern Rivers region** of New South Wales and the **Bundaberg region** of Queensland.



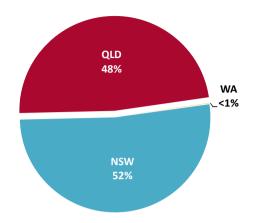
Sources: ABS; AMS







2015/16 Macadamia Production by State



Sources: ABS

Macadamia Harvest Season by State (Kernel)

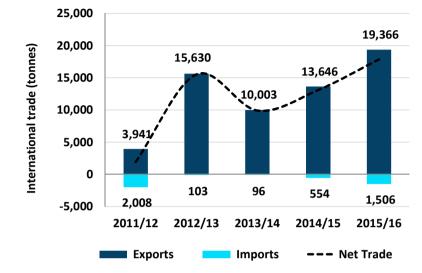
State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	8,421												
Queensland	7,808												
Western Australia	12												
Harvest legend			Har	vest		En	d of I	Harve	est			None	

Source: AMS

Macadamia International Trade

Australia is a net exporter of macadamias, with a small volume of imports, predominantly in-shell. For the year ending June 2016, Australia exported **10,906 tonnes** of macadamias in-shell and **8,460 tonnes** of macadamia kernels, and only imported **1,506 tonnes** of macadamias in-shell. When exports are assessed on a kernel-weight equivalent (accounting for the heavier individual weight of in-shell macadamias), **71%** of exported macadamias were in a kernel form. The exports and imports over the last 5 financial years is profiled in the graph to the right, where imports are counted as negative tonnes. A large proportion of imports and exports are classified by their country or origin.

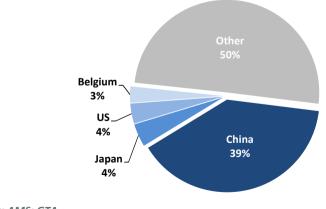
Net Macadamia International Trade (actual tonnes)



Sources: AMS; GTA

For the year ending June 2016, **39%** of exported macadamia nuts were sent to China, as profiled in the chart below.

2015/16 Macadamia Exports by Country



Sources: AMS; GTA

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Macadamia Imports and Exports by State (both In-shell and Kernel)

Impo	orts by state	(Tonnes)		Exports by Departing state (Tonnes)							
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016				
Queensland	96	554	1,506	New South Wales	4,646	3,871	3,545				
TOTAL	96	554	1,506	Queensland	953	1,790	2,213				
				Victoria	6	24	37				
				Western Australia	< 0.5	< 0.5	3				
				Northern Territory	10	-	-				
				Other	4,389	7,961	13,567				
				TOTAL	10,003	13,646	19,366				

Macadamia Imports and Exports by Country (both In-shell and Kernel)

Impor	ts by countr	y (Tonnes)		Expor	ports by country (Tonnes)					
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016			
China	-	10	500	Unidentified	2,391	4,784	7,779			
Zimbabwe	-	-	74	China	3,612	4,874	7,614			
Other	<i>9</i> 6	544	932	Japan	1,106	1,055	778			
TOTAL	96	554	1,506	US	794	956	683			
				Belgium	500	364	550			
				Other	1,600	1,614	1,962			
				TOTAL	10,003	13,646	19,366			

Source: GTA













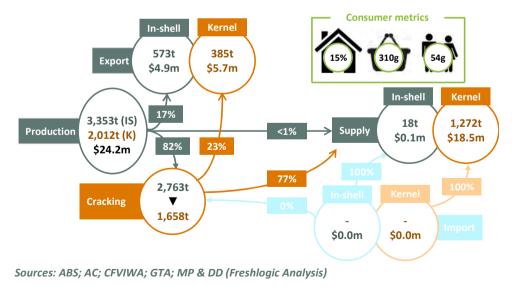
Pecan Overview

Pecans are grown in the south of Australia, with the majority of production occurring in New South Wales. The majority of pecans are sold domestically in kernel form, however there is a small export markets.

For the year ending June 2016:

- 3,353 t of pecans (in-shell weight) was produced with a kernel equivalent weight of 2,012 t.
- The value of production was worth **\$24.2 m** while the wholesale value of pecans in-shell and kernel supply was **\$18.6 m**.
- **15%** of Australian households purchased pecans, buying an average of **310** g per shopping trip.
- The consumption per capita of in-shell and kernel pecans was 54 g, based on the volume supplied.

Pecan Supply Chain—Year Ending June 2016





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Veer Freding lung		2014		201	5	2016			
Year Ending June	\	/alue	١	/alue	% YoY	١	/alue	% YoY	
Production (KWE t)		1,975		1,988	<1%		2,012	+1%	
Production (\$m)	\$	14.7	\$	17.5	+19%	\$	24.2	+38%	
Production area (Ha)		1,550		1,550	-		1,550	-	
Export Volume (KWE t)		553		616	+11%		729	+18%	
Export Value (\$m)	\$	5.5	\$	7.1	+28%	\$	10.6	+50%	
Import Volume (KWE t)		-		-	-		-	-	
Import Value (\$m)	\$	-	\$	-	-	\$	-	-	
Supply (KWE t)		1,422		1,373	-3%		1,283	-7%	
Supply Wholesale Value (\$m)	\$	14.2	\$	17.1	+21%	\$	18.6	+9%	
Consumption per Capita (kg supply)		0.06		0.06	-5%		0.05	-8%	

Sources: ABS; AC; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

*Note: all volumes quoted in the table above are in KWE.

Major Pecan Production Areas

Pecans are predominantly produced in New South Wales, with the majority of production occurring in the slopes and plains north-west of New South Wales town of **Moree**.



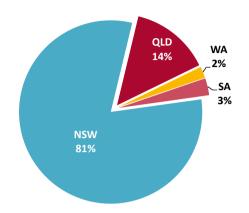
Source: ABS; APGA







2015/16 Pecan Production by State



Sources: ABS; APGA

Pecan Harvest Season by State (In-shell)

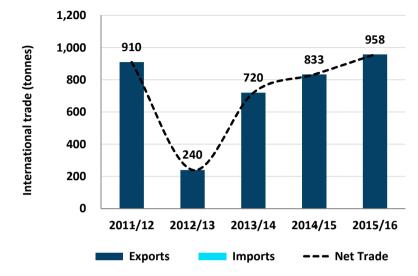
State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	2,716												
Queensland	469												
Western Australia	67												
South Australia	101												
Harvest le	gend		Har	vest	End of Harvest				None				

Source: APGA

Pecan International Trade

Australia is a net exporter of pecans, with the majority of exports being in in-shell form. For the year ending June 2016, Australia exported **573 tonnes** of in-shell pecans (**60%** of pecan exports) and **385 tonnes** of kernel pecans (**40%** of exports). The exports over the last 5 financial years is profiled in the graph to the right, where imports are counted as negative tonnes.

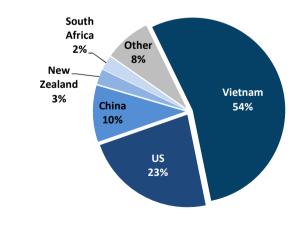
Net Pecan International Trade (actual tonnes)



Source: GTA

For the year ending June 2016, **54%** of exported pecans were sent to Vietnam, as profiled in the chart below.

2015/16 Pecan Exports by Country



Source: GTA

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₩fresh**logic**

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Pecan Exports by State (both In-shell and Kernel)

Exports b	Exports by Departing state (Tonnes)											
Year Ending June	2014	2015	2016									
New South Wales	621	700	841									
Queensland	36	104	92									
Victoria	61	27	22									
Other	1	2	2									
TOTAL	720	833	958									

Pecan Exports by Country (both In-shell and Kernel)

Expor	ts by countr	Exports by country (Tonnes)											
Year Ending June	2014	2015	2016										
Vietnam	309	413	517										
US	171	185	219										
China	48	12	95										
New Zealand	30	42	25										
South Africa	23	24	24										
Other	139	158	78										
TOTAL	720	833	958										

Source: GTA











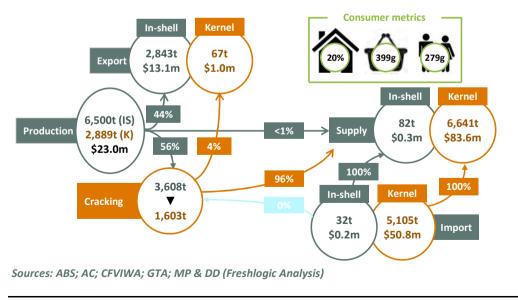
Walnuts Overview

Walnuts are grown across Australia, with the majority of production occurring in New South Wales. Walnuts have a strong export focus, with a significant volume of the Australian production being sold locally in-shell.

For the year ending June 2016:

- 6,500 t of walnuts (in-shell weight) was produced with a kernel equivalent weight of 2,889 t.
- The value of production was worth **\$23 m** while the wholesale value of walnuts in-shell and kernel supply was **\$83.9 m**.
- 20% of Australian households purchased walnuts, buying an average of 399 g per shopping trip.
- The consumption per capita of in-shell and kernel walnuts was 279 g, based on the volume supplied.

Walnut Supply Chain — Year Ending June 2016





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Year Ending June		2014		201	5		201	6
fear Enumg June		Value	١	Value	% YoY	١	Value	% YoY
Production (ISWE t)		11,040		11,205	+1%		6,500	- 42%
Production (\$m)	\$	43.8	\$	46.9	+7%	\$	23.0	-51%
Production area (Ha)		2,980		2,980	-		3,600	+21%
Export Volume (Actual t)		4,350		4,524	+4%		2,910	-36%
Export Value (\$m)	\$	19.0	\$	25.7	+35%	\$	14.2	-45%
Import Volume (Actual t)		5,322		4,548	-15%		5,137	+13%
Import Value (\$m)	\$	54.8	\$	59.4	+8%	\$	50.9	-14%
Supply (Actual t)		8,639		7,805	-10%		6,723	-14%
Supply Wholesale Value (\$m)	\$	78.1	\$	85.2	+9%	\$	83.9	-1%
Consumption per Capita (kg supply)		0.37		0.33	-11%		0.28	-15%

Sources: AABS; AC; CFVIWA; GTA; MP & DD (Freshlogic Analysis)

Major Walnut Production Areas

Walnuts are produced in the southern states of Australia, with the majority of production occurring in New South Wales. Major production regions include the **Riverina** in NSW; the **Goulburn Valley** and **Swan Hill region** of Victoria; and the **Swansea region** in Tasmania.



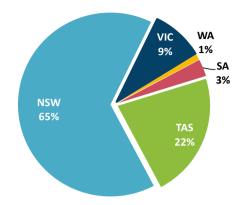
Source: ABS; WalA







2015/16 Walnut Production by State



Sources: ABS; WalA

Walnuts Harvest Season by State (In-shell)

State	15/16 Tonnes	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
New South Wales	4,225												
Victoria	585												
Western Australia	65												
South Australia	195												
Tasmania	1,430												
Harvest le	gend		Har	vest		End of Harvest				None			

Source: WalA

450

Walnuts International Trade

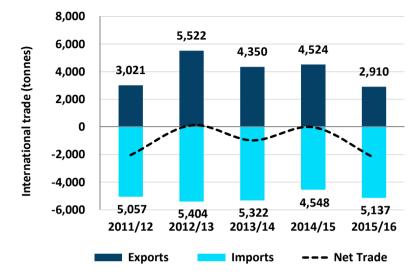
Australia has traditionally been a net importer of walnuts, although exports have been growing in recent years. For the year ending June 2016, Australia exported **2,843 tonnes** of in-shell walnuts (**98%** of walnuts exports) and **67 tonnes** of kernel walnuts (**2%** of exports), while importing **32 tonnes** of in-shell walnuts (**1%** of walnut imports) and **5,105 tonnes** of kernel walnuts (**99%** of imports). The exports and imports over the last 5 financial years is profiled in the graph to the right, where imports are counted as negative tonnes. A large proportion of imports are classified as to which country they are sourced from.



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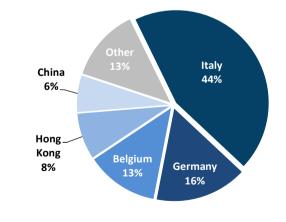




Source: GTA

For the year ending June 2016, 44% of exported walnuts were sent to Italy, as profiled in the chart below.

2015/16 Walnut Exports by Country



Source: GTA



Walnut Imports and Exports by State (both In-shell and Kernel)

Impo	rts by state	(Tonnes)		Exports by Departing state (Tonnes)				
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016	
Victoria	11	10	31	New South Wales	4,271	4,446	2,881	
Western Australia	-	-	1	Victoria	49	12	22	
New South Wales	-	1	< 0.5	Queensland	< 0.5	1	2	
Other	5,311	4,537	5,105	Western Australia	-	-	< 0.5	
TOTAL	5,322	4,548	5,137	Other	30	65	6	
				TOTAL	4,350	4,524	2,910	

Walnut Imports and Exports by Country (both In-shell and Kernel)

Impor	ts by countr	y (Tonnes)		Exports by country (Tonnes)				
Year Ending June	2014	2015	2016	Year Ending June	2014	2015	2016	
Unidentified	5,311	4,537	5,105	Italy	1,376	2,056	1,286	
US	11	1	32	Germany	303	576	468	
China	-	-	< 0.5	Belgium	-	21	366	
Other	-	10	< 0.5	Hong Kong	594	384	235	
TOTAL	5,322	4,548	5,137	China	1,152	100	186	
				Other	926	1,388	369	
				TOTAL	4,350	4,524	2,910	

Source: GTA







