

Horticulture Innovation Australia

Final Report

Data collection to facilitate supply chain transparency - stage 2

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MG12007

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Contents

Summary	3
Keywords	4
Introduction	5
Methodology.....	6
Outputs.....	7
Outcomes.....	7
Evaluation and Discussion.....	8
Recommendations	9
Scientific Refereed Publications	10
Intellectual Property/Commercialisation	10
Appendix 1.....	11
Appendix 2.....	25
Appendix 3.....	35

Summary

Providing the ability for mango growers to gain pertinent and immediate information on market signals is important both for the grower and also the industry. The information provided by this project allows growers to make improved business decisions, especially as distance to market and the relatively short but busy harvest window mean that growers have little opportunity to undertake in depth analysis of markets.

This project provided growers and industry with information from both the wholesale sector and the retail sector. In the final year of the project, following industry consultation, the retail component of the project was halted and replaced with a brix measurement service which focussed on mango quality. The change in focus of the project followed industry consultation at regional grower meetings during July and August 2014 which highlighted the need of industry to focus on improving quality and the general industry feedback that poor quality fruit (immature fruit) was impacting on consumer appeal.

Wholesale data: Wholesale data was collected through Ausmarket Consultants on a daily basis throughout the season in the four key wholesale markets in Australia (Brisbane, Sydney, Melbourne and Adelaide). This information included prices for a range of varieties, sizes and classes of fruit. Throughput data was also collected from the Brisbane wholesale markets.

Retail data: For the 2012/13 and 2013/14 seasons, retail information was collected from 16 retail stores in four capital cities (Sydney, Melbourne, Brisbane and Perth) on a weekly basis. A consequence of retail prices is the influence they have on consumer demand.

Brix Measurement: In the 2014/15 season, through industry consultation there was a clear demand that issues related to fruit maturity in the market be addressed. The industry, through this project introduced a reporting system which measured the brix of randomly selected samples of mangoes and reported the results to industry. The brix level in a mango is directly related to its maturity, as measured by dry matter content, at harvest. There are a number of reasons growers harvest mangoes before they reach optimum maturity. These include market forces, lack of knowledge and also the challenge to properly supervise inexperienced mango pickers. The brix measurement system provided industry with information on brix levels on sampled mangoes throughout the season.

This information was made available through the mango industry website, <http://industry.mangoes.net.au> and also emailed to industry participants, including growers, wholesalers and major retailers on a weekly basis throughout the season.

Keywords

wholesale, retail, prices, quality, brix, markets

Introduction

Mangoes are grown commercially by approximately 650 growers throughout many areas of tropical and sub-tropical Australia. Key production areas include Gingin, Carnarvon and Kununurra in Western Australia; Darwin, Katherine and Mataranka in the Northern Territory; Mareeba / Dimbulah region, Townsville/ Burdekin/Bowen regions, Rockhampton/ Yeppoon and Bundaberg in Queensland; and northern New South Wales. There are also several growers developing small orchards in the Mildura region of Victoria.

Most production regions are significant distance from Australia's major markets. Regular reporting from the wholesale and retail markets with independently collected wholesale and retail prices provides growers with clear signals on market conditions. This information is important to allow growers to make sound business decisions, especially as distance to market and the relatively short but busy harvest window mean that growers have little opportunity to undertake further analysis of markets.

An issue that industry has been challenged with is the occurrence of growers picking immature fruit and sending this fruit to market. Immature fruit, when ripened, does not have the eating characteristics of fruit that is picked when mature. Determining maturity in mangoes in the orchard is undertaken by a combination of measures, including fruit shape, flesh colour, and heat sums (heat units from flowering). When a mango has 14% dry matter it is considered mature enough to pick and will ripen properly with a good flavour (Northern Territory Department of Primary Industries). Dry Matter can be determined by the traditional method of cutting up the flesh and drying it, to measure the difference between fresh and dry weight.

A newer method in development uses near infra-red technology. This is undertaken by using a portable hand held device that measures the dry matter (percentage of total weight) in the mango. This device needs to be calibrated regularly and for each variety. It has been extensively trialed in the B74 variety and is gaining commercial acceptance in the industry. The University of Central Queensland has undertaken extensive research on the use of NIR technology with mangoes and have developed a protocol for calibration. There is a strong correlation between dry matter at harvest and brix at the eating ripe stage. There is usually a 1 point difference between dry matter and brix. Therefore a mango harvested at a 14% dry matter, once ripened should have a brix measure of 13° (University of Central Queensland). Brix is a measurement of total soluble solids in the mango, measured when the mango is at the 'eating ripe' stage.

This project, MG12007 funded three activities (wholesale prices, retail prices and brix measurement) and these activities linked to MG10016 Mango Capacity Building stage 1, MG13017 Mango Capacity Building stage 2 and MG14504 Mango Quality.

The information gained through MG12007 was formatted and communicated to industry through the industry development and communication sub programs within MG10016 and MG13017.

The linkage of MG12007 to MG14504 Mango Quality project during the 2014/15 season was through the use of dry matter testing and NIR technology in the field, which provided dry matter assessments prior to harvest and MG12007, which provided in-market assessments measuring brix levels.

Methodology

Wholesale data

The collection and dissemination of wholesale data

The mango market reporting service provided by Ausmarket Consultants provided the Australian mango industry with daily prices and throughput (Brisbane market) from early September extending through to late March/early April each year. The start and finish dates are influenced by the seasonality of the mango harvest.

The service provided a valuable resource for mango growers and associated businesses throughout the supply chain, including:

- Price reporting on a daily basis throughout the season for each capital city market (Brisbane, Sydney, Melbourne, Adelaide) and Perth on a weekly basis
- Price reporting on each variety in the market, with a high, low and average price
- Daily throughput for the Brisbane market is also available.

The methodology used by Ausmarket Consultants and their representatives in each wholesale market included speaking with a broad representation of wholesalers and retailers in the market on a daily basis. Information was cross checked throughout this process.

The prices were updated daily throughout the season and could be accessed through the Ausmarket website www.ausmarket.com.au and the Australian mango industry website www.industry.mangoes.net.au . The reports were also available via a fax system.

Retail data

This activity collected data from 16 retail stores in four capital cities of Australia. The data collection commenced in early September and was available on the mango industry website (<http://www.industry.mangoes.net.au/>). The data, uploaded weekly, included retailer name, store location, retail prices for each variety on sale and country of origin information. Store sampled included major retailers, Woolworths, Coles, IGA as well as large independents (eg Harris Farm Markets) and a range of independent green grocers.

Brix Measurement

Brix measurement was undertaken in each market by experienced market assessors. These were: Brisbane (Brisbane Market Produce Surveyors), Sydney (Sydney Produce Surveyors) and Melbourne (Rudge Produce Systems).

Consignments of mangoes were selected at random in each wholesale market and 10 mangoes are selected for assessment. Each mango was ripened, and each mango cheek was assessed for brix levels using a hand held refractometer (<http://www.atago.net/english/download.html>). The brix measurements were averaged for each mango and then averaged for each sample (10 mangoes). This information was collated then made available to the grower within two days of the information being collated

Extension to the Mango Industry

The collated information from the brix measurements were published each Monday in the industry weekly publication, My Mango. Articles about the brix measurement and the processes used were published in the industry quarterly publication, Mango Matters as well as My Mango.

Outputs

Wholesale Prices

The wholesale prices reflect market conditions through the season. As volumes increase through the peak of the season prices fall. The peak of production during the season occurs during the months of November, December and January. The variance between prices received for first grade fruit compared with second grade fruit also widens as fruit supply increases.

Appendix 1 contains the summary prices for the 2014/15 season for each market

Retail prices (2012/13 – 2013/14)

Retail prices reflect the supply available and also the quality of the fruit. As the volume of fruit increases through to the peak of production during November to January, retail prices fall. An example of the retail reports is included in Appendix 2.

Brix Measurement (2014/15)

The brix measurements occurred throughout the season. It was anticipated that as each regions harvest commenced, the average brix measurements for each variety by region would increase. While this did happen, there was also a trend that as each regions harvest concluded, the average brix measurements declined. Appendix 3 contains an example of the Brix measurements as well as a graph of the measurements through the season.

Outcomes

Wholesale prices

A well informed industry with daily wholesale prices available to all participants, irrespective of their location.

Retail data collection

The information enabled growers and wholesalers to observe retail price trends across four capital cities in Australia. This also provided growers with an understanding of the price points different retailers sold mangoes, throughout the season. While this information was useful in terms on providing growers with information, the project leader is unaware of any growers changing their management practices as a result of accessing the retail prices information. This was one of the key reasons the focus of the project switched from retail prices to focus on brix measurement during the 2014/15 season.

Brix Measurement

The outcome of this activity raised awareness of the importance of picking mature mangoes. Growers, wholesalers and retailers are now taking the issue of harvest maturity seriously and major retailers are reassessing their quality standards and distribution centre assessment methods.

Major retailers have had a minimum dry matter standard of 14% for most varieties. As most mangoes reach distribution centres before the 'eating ripe' stage, measuring dry matter is the most appropriate measure for distribution centre staff. As this project was to assess mangoes at the 'eating ripe stage (to ensure uniformity, sampled mangoes were held until they were at the eating ripe stage) brix measurement is the most appropriate measure for sugar levels and therefore flavour. This system has highlighted the importance to retailers of ensuring mangoes are assessed for maturity upon arrival at their distribution centres. It has also highlighted to growers the importance of only harvesting mangoes that are mature. An example of a weekly report is in table 1, below.

Table 1. Example of brix measurements published each week in My Mango. Major retailers have a minimum standard of 14% dry matter which equates to 13° brix

Grower	Pack Date	Variety	Brix
	5/01/15	Honey Gold	16.5
	na	KP	15.4
	6/01/15	KP	15.1
	na	KP	14.9
	na	KP	14.8
	na	KP	14.4

Evaluation and Discussion

This project has provided growers with information that will assist them in their decision making processes. As most growers live and produce mangoes significant distance from both major wholesaler markets and major retailers, the project aimed to provide information on prices and mango quality that would assist in business decisions.

The mango wholesale price reporting system provides growers and others with the daily

trends in process for the range of mango varieties. The project managers have investigated other methods to collect this data but no viable alternative is available. The value growers place on this service means that it needs to continue. Throughout the life of this project the project managers have held regular discussion with the service provider, Ausmarket Consultants to ensure the information provided is current and accurate.

The wholesale prices are a very useful guide for many small to medium growers who otherwise would receive little objectively information on wholesale prices and price trends. Without this system many growers would rely on information from individuals and would have little awareness of market prices across the major wholesale markets

The retail prices system operated for several seasons. Grower feedback about the system was that while it is information that is nice to know, during the height of their picking season they rarely refer to the information. It provided no information that they would use to influence their decision making processes during the season.

The brix measurement system has been overwhelmingly welcomed by many growers and others in the supply chain, particularly retailers. It is seen as a very positive step by industry to address issues of immature fruit reaching the market. The focus on immature fruit reaching the market will address industry concern of disappointing consumers as they amount of fruit not reach minimum flavour standards will be reduced.

The brix measurements provide growers, wholesalers and retailers with objectively collected brix measurements from randomly sampled mango consignments in each of the three major wholesale markets. This system has raised the awareness of harvesting immature mangoes and many growers are keen to see it brix measurement continued.

Due to budgetary constraints, the system only operated in Brisbane, Sydney and Melbourne. There has been interest by Western Australian growers to have the system also operating in Perth.

Recommendations

Mango Wholesale price reporting

Continue to work with the service provider to ensure accuracy of the information collected and reported. Investigate methods to improve the technology used and capture prices for sales not occurring in the wholesale markets.

Retail price information

While the information provided is useful, this service should have a lower priority than other activities

Mango Objective Reporting

The introduction of this system has seen industry build its focus on mango quality, in particular maturity. It is recommended that the system is continued, and budget dependent, extended to other Australian markets and potentially mangoes destined for export markets.

Scientific Refereed Publications

Not applicable

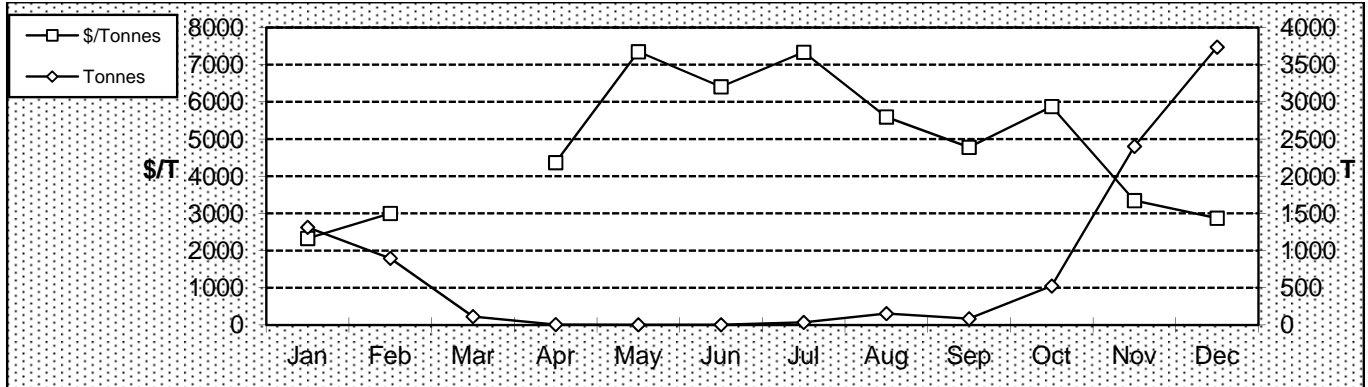
Intellectual Property/Commercialisation

No commercial IP generated

Appendix 1.

Wholesale prices

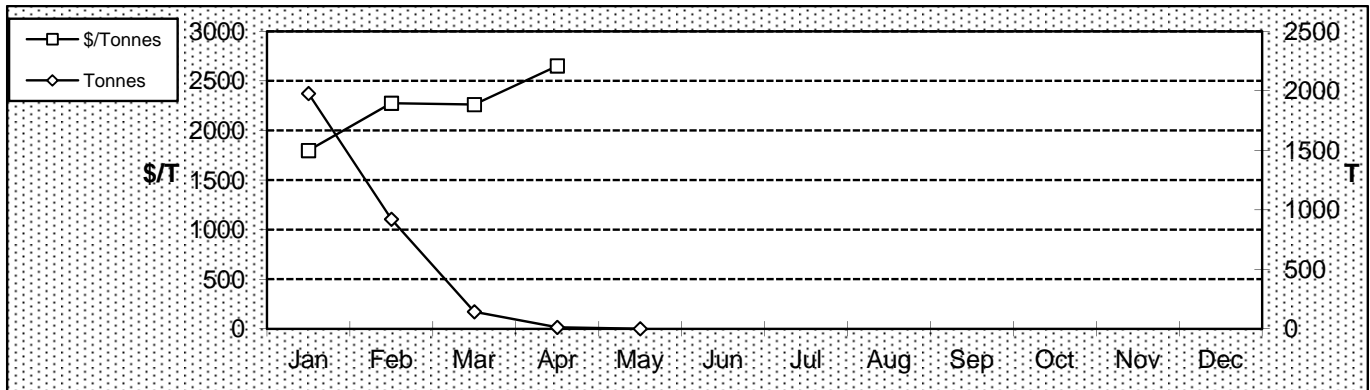
2014 Brisbane MANGOES (All Origins)



MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
PRICE	\$/T	2327	3000		4366	7348	6405	7334	5594	4778	5875	3346	2872	3186
THROUGHPUT	Tonnes	1313.42	896.28	113.20	6.20	2.81	3.70	34.99	153.36	84.15	524.22	2401.79	3735.98	9270.11
Package		187632	128040	16171	886	402	529	4999	21908	12021	74888	343113	533712	1324301
Kensington Pride	High											20.00		20.00
Pride	Avg											13.71		13.71
\$/10LTray	Low											10.00		10.00
Keitt	High		24.00	24.00										24.00
\$/18LCtn	Avg		22.00	22.00										22.00
	Low		20.00	20.00										20.00
Kensington Pride	High	16.00						50.00	50.00	50.00	45.00	40.00	40.00	50.00
\$/18LCtn	Avg	13.00						45.00	38.00	34.55	37.71	23.74	21.43	30.49
	Low	10.00						40.00	20.00	20.00	20.00	10.00	10.00	10.00
Pearl	High	30.00	30.00											30.00
\$/18LCtn	Avg	26.67	26.40											26.54
	Low	24.00	24.00											24.00
All Varieties	High	30.00	30.00	24.00				50.00	50.00	50.00	45.00	40.00	40.00	50.00
\$/18LCtn	Avg	19.84	24.20	22.00				45.00	38.00	34.55	37.71	23.74	21.43	28.23
	Low	10.00	20.00	20.00				40.00	20.00	20.00	20.00	10.00	10.00	10.00
Tommy Atkins	High				34.00	34.00	30.00	36.00	36.00	36.00				36.00
\$/9LCtn	Avg				34.00	32.18	30.00	33.83	31.43	20.50				30.32
	Low				34.00	30.00	30.00	28.00	5.00	5.00				5.00
Unspecified	High							38.00	38.00					38.00
\$/9LCtn	Avg							36.64	33.00					34.82
	Low							28.00	28.00					28.00
All Varieties	High				34.00	34.00	30.00	38.00	38.00	36.00				38.00
\$/9LCtn	Avg				34.00	32.18	30.00	35.24	32.22	20.50				31.45
	Low				34.00	30.00	30.00	28.00	5.00	5.00				5.00
Culinary Elephant	High								8.00	8.00				8.00
\$/Kg	Avg								7.75	7.50				7.63
	Low								7.00	7.00				7.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Culinary Falant \$/Kg	High Avg Low						8.00 7.50 7.00	8.00 7.50 7.00						8.00 7.50 7.00
Culinary Keo Savoy \$/Kg	High Avg Low												3.00 2.28 2.00	3.00 2.28 2.00
Culinary Nam Dok Mai \$/Kg	High Avg Low	3.00 2.75 2.50				9.00 9.00 9.00				6.00 6.00 6.00	6.00 4.09 4.00	5.00 4.00 3.00	5.00 4.00 3.00	9.00 4.97 2.50
Culinary R2E2 \$/Kg	High Avg Low	2.50 2.25 2.00												2.50 2.25 2.00
All Varieties \$/Kg	High Avg Low	3.00 2.50 2.00				9.00 9.00 9.00	8.00 7.50 7.00	8.00 7.50 7.00	8.00 7.75 7.00	8.00 6.75 6.00	6.00 4.09 4.00	5.00 4.00 3.00	5.00 3.14 2.00	9.00 5.39 2.00
Brook \$/SLTray	High Avg Low		16.00 14.00 12.00	20.00 14.86 12.00	20.00 18.00 16.00									20.00 15.62 12.00
Calypso \$/SLTray	High Avg Low	30.00 18.15 12.00	24.00 20.67 16.00									45.00 27.55 14.00	26.00 18.55 8.00	45.00 21.23 8.00
Honey Gold \$/SLTray	High Avg Low	26.00 20.42 14.00	26.00 22.50 18.00									28.00 21.50 16.00	28.00 24.24 22.00	28.00 22.17 14.00
Irwin \$/SLTray	High Avg Low									40.00 31.25 25.00				40.00 31.25 25.00
Keitt \$/SLTray	High Avg Low	20.00 16.00 12.00	28.00 20.79 12.00	36.00 24.83 12.00	36.00 26.50 16.00									36.00 22.03 12.00
Kensington Pride \$/SLTray	High Avg Low	30.00 16.17 10.00						60.00 55.71 50.00	60.00 42.76 20.00	65.00 42.59 20.00	70.00 46.25 15.00	45.00 24.05 6.00	40.00 21.95 10.00	70.00 35.64 6.00
Kent \$/SLTray	High Avg Low	24.00 22.00 20.00	26.00 21.03 18.00	26.00 21.00 18.00										26.00 21.34 18.00
Palmer \$/SLTray	High Avg Low		26.00 20.00 14.00	26.00 20.00 14.00										26.00 20.00 14.00
Pearl \$/SLTray	High Avg Low	32.00 29.00 26.00	32.00 27.20 26.00											32.00 28.10 26.00
R2E2 \$/SLTray	High Avg Low	28.00 17.80 10.00							50.00 40.00 30.00	45.00 36.25 30.00	50.00 40.83 30.00	40.00 26.45 10.00	36.00 18.35 8.00	50.00 29.95 8.00
All Varieties \$/SLTray	High Avg Low	32.00 19.93 10.00	32.00 20.88 12.00	36.00 20.17 12.00	36.00 22.25 16.00			60.00 55.71 50.00	60.00 41.38 20.00	65.00 36.70 20.00	70.00 43.54 15.00	45.00 24.89 6.00	40.00 20.77 8.00	70.00 25.81 6.00

2015 Brisbane MANGOES (All Origins)



MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
PRICE	\$/T	1798	2275	2261	2652									1967
THROUGHPUT	Tonnes	1977.40	920.89	143.61	12.26	0.83								3054.98
Package		282486	131555	20516	1751	118								436426
Calypso \$/10LTray	High		16.00											16.00
	Avg		14.00											14.00
	Low		12.00											12.00
Honey Gold \$/15KgCtn	High	20.00	28.00											28.00
	Avg	17.00	22.33											19.67
	Low	14.00	16.00											14.00
Palmer \$/15KgCtn	High		20.00	18.00										20.00
	Avg		17.64	16.00										16.82
	Low		14.00	14.00										14.00
R2E2 \$/15KgCtn	High	25.00												25.00
	Avg	17.91												17.91
	Low	10.00												10.00
All Varieties \$/15KgCtn	High	25.00	28.00	18.00										28.00
	Avg	17.45	19.99	16.00										18.18
	Low	10.00	14.00	14.00										10.00
Calypso \$/18LCtn	High	10.00	14.00											14.00
	Avg	9.00	13.00											11.00
	Low	8.00	12.00											8.00
Kensington Pride \$/18LCtn	High	26.00	20.00											26.00
	Avg	13.42	14.84											14.13
	Low	5.00	8.00											5.00
Palmer \$/18LCtn	High		12.00	12.00										12.00
	Avg		11.00	11.00										11.00
	Low		10.00	10.00										10.00
All Varieties \$/18LCtn	High	26.00	20.00	12.00										26.00
	Avg	11.21	12.95	11.00										12.04
	Low	5.00	8.00	10.00										5.00
Keitt \$/9LCtn	High		16.00	16.00	14.00									16.00
	Avg		14.64	11.27	11.00									12.30
	Low		12.00	10.00	10.00									10.00
Tommy Atkins \$/9LCtn	High					32.00								32.00
	Avg					30.00								30.00
	Low					30.00								30.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
All Varieties \$/9LCtn	High		16.00	16.00	14.00	32.00								32.00
	Avg		14.64	11.27	11.00	30.00								16.73
	Low		12.00	10.00	10.00	30.00								10.00
Culinary Dragon Tongue \$/Kg	High	4.00	4.00											4.00
	Avg	3.71	3.50											3.61
	Low	3.00	3.00											3.00
Culinary Keo Savoy \$/Kg	High	2.50												2.50
	Avg	2.25												2.25
	Low	2.00												2.00
Culinary Nam Dok Mai \$/Kg	High	5.00												5.00
	Avg	4.00												4.00
	Low	3.00												3.00
All Varieties \$/Kg	High	5.00	4.00											5.00
	Avg	3.32	3.50											3.37
	Low	2.00	3.00											2.00
Brook \$/SLTray	High			30.00	28.00	26.00								30.00
	Avg			13.72	20.16	20.25								18.04
	Low			10.00	12.00	15.00								10.00
Calypso \$/SLTray	High	20.00	20.00											20.00
	Avg	12.18	15.10											13.64
	Low	4.00	8.00											4.00
Honey Gold \$/SLTray	High	26.00	24.00	24.00										26.00
	Avg	15.80	17.21	20.00										17.67
	Low	12.00	10.00	16.00										10.00
Keitt \$/SLTray	High		28.00	28.00	28.00									28.00
	Avg		22.09	19.59	21.00									20.89
	Low		14.00	12.00	14.00									12.00
Kensington Pride \$/SLTray	High	32.00	28.00											32.00
	Avg	13.26	14.26											13.76
	Low	4.00	5.00											4.00
Kent \$/SLTray	High		24.00	24.00										24.00
	Avg		13.48	14.50										13.99
	Low		8.00	10.00										8.00
Palmer \$/SLTray	High		10.00	16.00										16.00
	Avg		9.00	11.54										10.27
	Low		8.00	8.00										8.00
Pearl \$/SLTray	High		36.00	32.00										36.00
	Avg		29.11	29.00										29.06
	Low		26.00	26.00										26.00
R2E2 \$/SLTray	High	28.00	28.00											28.00
	Avg	13.03	16.59											14.81
	Low	5.00	12.00											5.00
All Varieties \$/SLTray	High	32.00	36.00	32.00	28.00	26.00								36.00
	Avg	13.57	17.11	18.06	20.58	20.25								17.18
	Low	4.00	5.00	8.00	12.00	15.00								4.00

2014 Sydney MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Calypso \$/10KgCtn	High	15.00												15.00
	Avg	12.26												12.26
	Low	7.00												7.00
Calypso \$/10KgTra	High												30.00	30.00
	Avg												21.17	21.17
	Low												15.00	15.00
Tommy Atkins \$/10LTray	High				30.00	30.00	28.00	30.00	30.00					30.00
	Avg				28.00	27.09	24.03	22.13	27.00					25.65
	Low				26.00	24.00	20.00	20.00	24.00					20.00
Honey Gold \$/15KgCtn	High												38.00	38.00
	Avg												31.60	31.60
	Low												25.00	25.00
Kensington Pride \$/15KgCtn	High	30.00												30.00
	Avg	25.00												25.00
	Low	20.00												20.00
R2E2 \$/15KgCtn	High	30.00	30.00											30.00
	Avg	25.00	25.00											25.00
	Low	20.00	20.00											20.00
All Varieties \$/15KgCtn	High	30.00	30.00										38.00	38.00
	Avg	25.00	25.00										31.60	26.65
	Low	20.00	20.00										25.00	20.00
Calypso \$/18LCtn	High		30.00										18.00	30.00
	Avg		27.50										14.33	20.92
	Low		25.00										10.00	10.00
Honey Gold \$/18LCtn	High		40.00	30.00										40.00
	Avg		28.33	25.00										26.67
	Low		20.00	20.00										20.00
Kensington Pride \$/18LCtn	High	34.00	34.00							55.00	60.00	36.00	30.00	60.00
	Avg	18.85	22.00							45.00	40.30	18.86	22.57	27.93
	Low	10.00	12.00							40.00	15.00	10.00	10.00	10.00
R2E2 \$/18LCtn	High	15.00	15.00								45.00	30.00	25.00	45.00
	Avg	12.50	12.50								33.63	20.50	20.00	19.83
	Low	10.00	10.00								20.00	10.00	10.00	10.00
Culinary Nam Dok Mai \$/18LCtn	High						50.00	50.00	60.00					60.00
	Avg						37.62	38.26	43.57					39.82
	Low						24.00	30.00	30.00					24.00
All Varieties \$/18LCtn	High	34.00	40.00	30.00			50.00	50.00	60.00	55.00	60.00	36.00	30.00	60.00
	Avg	15.68	22.58	25.00			37.62	38.26	43.57	45.00	36.97	19.68	18.97	26.74
	Low	10.00	10.00	20.00			24.00	30.00	30.00	40.00	15.00	10.00	10.00	10.00
Culinary Elephant \$/Kg	High								6.00	6.00	10.00	4.00		10.00
	Avg								5.50	4.08	5.55	3.00		4.53
	Low								5.00	3.00	3.00	3.00		3.00
Culinary Falant \$/Kg	High										10.00	4.00		10.00
	Avg										7.92	3.75		5.84
	Low										3.50	3.50		3.50
Culinary Kensington Pride \$/Kg	High									6.00	5.00			6.00
	Avg									4.11	3.62			3.87
	Low									2.00	3.00			2.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Culinary Keo Savoy \$/Kg	High	5.00	4.00					10.00	12.00	12.00	12.00	5.00	4.00	12.00
	Avg	3.36	3.50					9.00	9.88	9.02	8.25	3.68	3.00	6.21
	Low	2.00	3.00					8.00	8.00	5.00	4.00	3.00	3.00	2.00
Culinary Nam Dok Mai \$/Kg	High	6.00	3.00							6.00	4.00	3.00	3.00	6.00
	Avg	2.37	3.00							3.83	3.07	2.50	2.50	2.88
	Low	1.80	2.00							2.50	2.00	2.00	2.00	1.80
Culinary Palang \$/Kg	High							4.00	4.00					4.00
	Avg							3.50	3.50					3.50
	Low							3.00	3.00					3.00
Culinary R2E2 \$/Kg	High	2.60	2.60						60.00	6.00	4.50		3.00	60.00
	Avg	2.20	2.20						55.00	3.77	3.71		2.29	11.53
	Low	1.80	1.80						50.00	2.50	3.00		2.00	1.80
Culinary ME \$/Kg	High									3.00	3.00	2.00	2.00	3.00
	Avg									2.75	2.52	1.80	1.90	2.24
	Low									2.50	1.50	1.50	1.80	1.50
All Varieties \$/Kg	High	6.00	4.00					10.00	60.00	12.00	12.00	5.00	4.00	60.00
	Avg	2.64	2.90					6.25	18.47	4.59	4.95	2.95	2.42	5.58
	Low	1.80	1.80					3.00	3.00	2.00	1.50	1.50	1.80	1.50
Brook \$/SLTray	High		24.00	24.00	30.00									30.00
	Avg		17.83	20.00	25.00									20.94
	Low		10.00	20.00	20.00									10.00
Calypso \$/SLTray	High	20.00	20.00									18.00	65.00	65.00
	Avg	9.17	18.00									17.00	26.00	17.54
	Low	1.00	16.00									16.00	16.00	1.00
Honey Gold \$/SLTray	High	36.00	48.00	75.00								36.00	38.00	75.00
	Avg	21.46	26.68	38.89								29.00	23.94	27.99
	Low	16.00	10.00	10.00								24.00	8.00	8.00
Keitt \$/SLTray	High	28.00	30.00	40.00	40.00									40.00
	Avg	18.44	18.70	22.48	21.94									20.39
	Low	12.00	10.00	10.00	14.00									10.00
Kensington Pride \$/SLTray	High	40.00	40.00	55.00			70.00	50.00	70.00	70.00	70.00	40.00	38.00	70.00
	Avg	18.08	20.58	23.25			46.50	40.21	41.86	40.77	38.88	18.46	21.98	31.06
	Low	5.00	6.00	6.00			30.00	30.00	26.00	10.00	10.00	2.00	5.00	2.00
Palmer \$/SLTray	High		26.00	20.00										26.00
	Avg		18.47	18.00										18.24
	Low		14.00	14.00										14.00
Pearl \$/SLTray	High	28.00	30.00											30.00
	Avg	25.50	25.75											25.63
	Low	20.00	20.00											20.00
R2E2 \$/SLTray	High	30.00	30.00								60.00	40.00	30.00	60.00
	Avg	17.40	18.00								37.11	20.63	18.84	22.40
	Low	8.00	8.00								16.00	12.00	10.00	8.00
All Varieties \$/SLTray	High	40.00	48.00	75.00	40.00		70.00	50.00	70.00	70.00	70.00	40.00	65.00	75.00
	Avg	18.34	20.50	24.52	23.47		46.50	40.21	41.86	40.77	38.00	21.27	22.69	24.71
	Low	1.00	6.00	6.00	14.00		30.00	30.00	26.00	10.00	10.00	2.00	5.00	1.00

2015 Sydney MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
Calypso \$/10KgTra	High	25.00												25.00
	Avg	18.25												18.25
	Low	15.00												15.00
Tommy Atkins \$/10LTray	High				35.00	30.00								35.00
	Avg				33.28	22.57								27.93
	Low				28.00	18.00								18.00
Honey Gold \$/15KgCtn	High	30.00	30.00	30.00										30.00
	Avg	20.00	19.50	22.00										20.50
	Low	16.00	8.00	8.00										8.00
Calypso \$/18LCtn	High	14.00												14.00
	Avg	12.00												12.00
	Low	10.00												10.00
Honey Gold \$/18LCtn	High	20.00	20.00	20.00										20.00
	Avg	14.00	14.00	14.00										14.00
	Low	8.00	8.00	8.00										8.00
Kensington Pride \$/18LCtn	High	24.00	30.00											30.00
	Avg	13.63	16.56											15.10
	Low	6.00	6.00											6.00
R2E2 \$/18LCtn	High	20.00	24.00											24.00
	Avg	13.83	18.88											16.36
	Low	10.00	16.00											10.00
All Varieties \$/18LCtn	High	24.00	30.00	20.00										30.00
	Avg	13.37	16.48	14.00										14.61
	Low	6.00	6.00	8.00										6.00
Ataulfo \$/2.5KgCt	High					24.00								24.00
	Avg					22.21								22.21
	Low					20.00								20.00
Culinary Keitt \$/Kg	High	2.00	2.00	2.00										2.00
	Avg	1.75	1.75	1.75										1.75
	Low	1.50	1.50	1.50										1.50
Culinary Keo Savoy \$/Kg	High	6.00												6.00
	Avg	3.79												3.79
	Low	3.00												3.00
Culinary Nam Dok Mai \$/Kg	High	4.00												4.00
	Avg	2.76												2.76
	Low	1.20												1.20
Culinary R2E2 \$/Kg	High	3.00												3.00
	Avg	2.16												2.16
	Low	1.50												1.50
All Varieties \$/Kg	High	6.00	2.00	2.00										6.00
	Avg	2.62	1.75	1.75										2.33
	Low	1.20	1.50	1.50										1.20
Brook \$/SLTray	High			24.00	30.00									30.00
	Avg			15.00	13.75									14.38
	Low			8.00	8.00									8.00
Calypso \$/SLTray	High	14.00	14.00											14.00
	Avg	11.40	12.00											11.70
	Low	2.00	10.00											2.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
Heidi \$/SLTray	High			24.00										24.00
	Avg			20.00										20.00
	Low			16.00										16.00
Honey Gold \$/SLTray	High	34.00	48.00	55.00										55.00
	Avg	16.79	20.64	25.29										20.91
	Low	8.00	5.00	5.00										5.00
Keitt \$/SLTray	High	30.00	30.00	36.00	36.00									36.00
	Avg	15.50	18.17	18.49	18.00									17.54
	Low	8.00	8.00	8.00	12.00									8.00
Kensington Pride \$/SLTray	High	38.00	40.00	60.00										60.00
	Avg	15.60	20.89	26.94										21.14
	Low	5.00	6.00	16.00										5.00
Kent \$/SLTray	High	16.00	16.00	16.00										16.00
	Avg	14.00	14.00	14.00										14.00
	Low	12.00	12.00	12.00										12.00
Palmer \$/SLTray	High		24.00	20.00										24.00
	Avg		16.33	13.00										14.67
	Low		10.00	10.00										10.00
R2E2 \$/SLTray	High	26.00	30.00	32.00										32.00
	Avg	13.11	18.70	31.00										20.94
	Low	6.00	10.00	30.00										6.00
All Varieties \$/SLTray	High	38.00	48.00	60.00	36.00									60.00
	Avg	14.40	17.25	20.47	15.88									17.50
	Low	2.00	5.00	5.00	8.00									2.00

2014 Melbourne MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Calypso \$/10KgTra	High											50.00	35.00	50.00
	Avg											43.65	27.27	35.46
	Low											30.00	20.00	20.00
Calypso \$/10LTray	High											22.00	22.00	22.00
	Avg											21.00	21.00	21.00
	Low											20.00	20.00	20.00
Kensington Pride \$/10LTray	High	30.00												30.00
	Avg	30.00												30.00
	Low	30.00												30.00
All Varieties \$/10LTray	High	30.00										22.00	22.00	30.00
	Avg	30.00										21.00	21.00	24.00
	Low	30.00										20.00	20.00	20.00
Kensington Pride \$/14KgCtn	High	30.00												30.00
	Avg	27.50												27.50
	Low	25.00												25.00
Keitt \$/15KgCtn	High	20.00	25.00											25.00
	Avg	20.00	19.32											19.66
	Low	20.00	15.00											15.00
Elephant \$/18LCtn	High						60.00		80.00					80.00
	Avg						60.00		76.00					68.00
	Low						60.00		75.00					60.00
Keitt \$/18LCtn	High	16.00	16.00	25.00										25.00
	Avg	15.00	15.00	22.50										17.50
	Low	14.00	14.00	20.00										14.00
Kensington Pride \$/18LCtn	High	30.00					70.00	65.00	65.00	60.00	50.00	30.00	30.00	70.00
	Avg	15.47					65.83	56.05	47.65	60.00	35.17	17.55	21.62	39.92
	Low	12.00					55.00	35.00	25.00	60.00	10.00	8.00	14.00	8.00
KSV \$/18LCtn	High	80.00	80.00				80.00	100.00	180.00	150.00				180.00
	Avg	80.00	80.00				80.00	93.00	171.43	123.33				104.63
	Low	80.00	80.00				80.00	80.00	150.00	100.00				80.00
Nam Dok Mai \$/18LCtn	High							50.00						50.00
	Avg							50.00						50.00
	Low							50.00						50.00
Palmer \$/18LCtn	High		15.00	15.00										15.00
	Avg		15.00	15.00										15.00
	Low		15.00	15.00										15.00
R2E2 \$/18LCtn	High									55.00	50.00	30.00	30.00	55.00
	Avg									47.92	41.20	22.63	22.50	33.56
	Low									45.00	20.00	20.00	20.00	20.00
All Varieties \$/18LCtn	High	80.00	80.00	25.00			80.00	100.00	180.00	150.00	50.00	30.00	30.00	180.00
	Avg	36.82	36.67	18.75			68.61	66.35	98.36	77.08	38.19	20.09	22.06	51.92
	Low	12.00	14.00	15.00			55.00	35.00	25.00	45.00	10.00	8.00	14.00	8.00
Culinary Elephant \$/Kg	High									7.50				7.50
	Avg									7.50				7.50
	Low									7.50				7.50
Culinary Fa Lan \$/Kg	High						90.00	60.00						90.00
	Avg						66.47	55.00						60.74
	Low						40.00	50.00						40.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Culinary Nam Dok Mai \$/Kg	High								9.00	5.00				9.00
	Avg								7.73	5.00				6.37
	Low								5.00	5.00				5.00
Culinary Unspecified \$/Kg	High	5.50	5.50	5.50		10.00	10.00			7.50	6.00	6.00	6.00	10.00
	Avg	4.64	5.25	5.25		10.00	10.00			4.68	3.59	3.50	3.50	5.60
	Low	4.00	5.00	5.00		10.00	10.00			4.00	3.00	3.00	3.00	3.00
All Varieties \$/Kg	High	5.50	5.50	5.50		10.00	90.00	60.00	9.00	7.50	6.00	6.00	6.00	90.00
	Avg	4.64	5.25	5.25		10.00	38.24	55.00	7.73	5.73	3.59	3.50	3.50	13.72
	Low	4.00	5.00	5.00		10.00	10.00	50.00	5.00	4.00	3.00	3.00	3.00	3.00
Brook \$/SLTray	High		24.00	25.00	25.00									25.00
	Avg		20.18	18.48	17.50									18.72
	Low		18.00	15.00	15.00									15.00
Calypso \$/SLTray	High	22.00						28.00				20.00	35.00	35.00
	Avg	13.00						26.50				19.00	19.48	19.50
	Low	10.00						25.00				18.00	14.00	10.00
Celebration \$/SLTray	High									55.00	30.00			55.00
	Avg									47.50	30.00			38.75
	Low									40.00	30.00			30.00
Keitt \$/SLTray	High	24.00	28.00	32.00										32.00
	Avg	19.67	21.84	22.33										21.28
	Low	18.00	18.00	20.00										18.00
Kensington Pride \$/SLTray	High	30.00	50.00	50.00	45.00		65.00	70.00	60.00	70.00	60.00	35.00	35.00	70.00
	Avg	16.11	46.43	32.50	35.00		60.00	47.61	34.64	41.61	38.99	21.35	23.47	36.16
	Low	10.00	40.00	20.00	30.00		55.00	35.00	20.00	20.00	14.00	8.00	14.00	8.00
Nam Dok Mai \$/SLTray	High	35.00	35.00											35.00
	Avg	32.50	32.50											32.50
	Low	30.00	30.00											30.00
Palmer \$/SLTray	High	20.00	25.00	25.00										25.00
	Avg	19.00	18.70	17.57										18.42
	Low	18.00	16.00	15.00										15.00
Pearl \$/SLTray	High		32.00											32.00
	Avg		31.00											31.00
	Low		30.00											30.00
R2E2 \$/SLTray	High	30.00	30.00				75.00	75.00		70.00	55.00	25.00	25.00	75.00
	Avg	20.00	22.50				70.00	70.00		49.80	42.28	19.49	18.79	39.11
	Low	15.00	15.00				65.00	65.00		30.00	15.00	12.00	12.00	12.00
Tommy Atkins \$/SLTray	High				35.00	35.00	30.00	28.00	28.00	28.00				35.00
	Avg				32.50	30.11	27.73	26.50	26.50	26.50				28.31
	Low				30.00	30.00	25.00	25.00	25.00	25.00				25.00
All Varieties \$/SLTray	High	35.00	50.00	50.00	45.00	35.00	75.00	75.00	60.00	70.00	60.00	35.00	35.00	75.00
	Avg	20.05	27.59	22.72	28.33	30.11	52.58	42.65	30.57	41.35	37.09	19.95	20.58	30.40
	Low	10.00	15.00	15.00	15.00	30.00	25.00	25.00	20.00	20.00	14.00	8.00	12.00	8.00

2015 Melbourne MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
Calypso \$/10KgTra	High	30.00	25.00											30.00
	Avg	23.00	21.96											22.48
	Low	20.00	20.00											20.00
Kensington Pride \$/18LCtn	High	25.00	18.00											25.00
	Avg	15.64	13.78											14.71
	Low	6.00	8.00											6.00
R2E2 \$/18LCtn	High	20.00	20.00											20.00
	Avg	17.50	17.50											17.50
	Low	15.00	15.00											15.00
All Varieties \$/18LCtn	High	25.00	20.00											25.00
	Avg	16.57	15.64											16.11
	Low	6.00	8.00											6.00
Culinary Unspecified \$/Kg	High	7.00	7.00											7.00
	Avg	4.20	4.88											4.54
	Low	3.00	3.00											3.00
Brook \$/SLTray	High			25.00	25.00									25.00
	Avg			17.93	16.00									16.97
	Low			12.00	12.00									12.00
Calypso \$/SLTray	High	18.00	20.00											20.00
	Avg	13.55	15.68											14.62
	Low	8.00	8.00											8.00
Keitt \$/SLTray	High		30.00	26.00										30.00
	Avg		20.50	17.24										18.87
	Low		14.00	14.00										14.00
Kensington Pride \$/SLTray	High	25.00	40.00	45.00	40.00									45.00
	Avg	15.73	19.72	26.15	35.00									24.15
	Low	5.00	8.00	16.00	30.00									5.00
Kent \$/SLTray	High		26.00											26.00
	Avg		21.00											21.00
	Low		16.00											16.00
Palmer \$/SLTray	High		20.00	20.00										20.00
	Avg		16.91	15.84										16.38
	Low		15.00	15.00										15.00
R2E2 \$/SLTray	High	22.00	25.00											25.00
	Avg	15.11	18.46											16.79
	Low	5.00	10.00											5.00
Tommy Atkins \$/SLTray	High				35.00	35.00								35.00
	Avg				35.00	30.90								32.95
	Low				35.00	26.00								26.00
All Varieties \$/SLTray	High	25.00	40.00	45.00	40.00	35.00								45.00
	Avg	14.80	18.71	19.29	28.67	30.90								20.63
	Low	5.00	8.00	12.00	12.00	26.00								5.00

2014 Adelaide MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Honey Gold \$/15KgCtn	High Avg Low												45.00 36.25 30.00	45.00 36.25 30.00
Kensington Pride \$/18LCtn	High Avg Low							80.00 61.03 50.00		40.00 32.98 30.00	70.00 48.75 35.00	35.00 22.23 15.00	30.00 23.98 16.00	80.00 37.79 15.00
Nam Dok Mai \$/18LCtn	High Avg Low										65.00 60.00 55.00			65.00 60.00 55.00
R2E2 \$/18LCtn	High Avg Low											28.00 25.00 20.00	28.00 26.00 24.00	28.00 25.50 20.00
All Varieties \$/18LCtn	High Avg Low							80.00 61.03 50.00		40.00 32.98 30.00	70.00 54.38 35.00	35.00 23.62 15.00	30.00 24.99 16.00	80.00 37.50 15.00
Sindhri \$/4KgTray	High Avg Low							40.00 36.43 32.00						40.00 36.43 32.00
Culinary Nam Dok Mai \$/Kg	High Avg Low									8.00 6.91 6.00	6.50 6.03 5.50			8.00 6.47 5.50
Calypso \$/Mod 6	High Avg Low										60.00 57.50 55.00	60.00 37.93 28.00		60.00 47.72 28.00
Ataulfo \$/SLTray	High Avg Low				32.00 30.20 30.00	32.00 30.55 30.00	36.00 30.69 25.00							36.00 30.48 25.00
Calypso \$/SLTray	High Avg Low	14.00 12.00 10.00									70.00 61.67 55.00	24.00 20.50 18.00	24.00 21.22 18.00	70.00 28.85 10.00
Celebration \$/SLTray	High Avg Low		25.00 25.00 25.00											25.00 25.00 25.00
Darwin \$/SLTray	High Avg Low											18.00 16.50 15.00		18.00 16.50 15.00
Honey Gold \$/SLTray	High Avg Low	36.00 30.88 26.00	36.00 31.50 26.00										36.00 34.00 32.00	36.00 32.13 26.00
Keitt \$/SLTray	High Avg Low	30.00 20.00 16.00	34.00 21.20 16.00	36.00 34.88 34.00	36.00 36.00 36.00									36.00 28.02 16.00
Kensington Pride \$/SLTray	High Avg Low	30.00 23.70 18.00	50.00 50.00 50.00	50.00 45.00 45.00	50.00 45.00 45.00			70.00 58.97 50.00	60.00 46.01 25.00	75.00 44.46 20.00	65.00 48.38 20.00	36.00 24.17 12.00	34.00 27.17 20.00	75.00 41.29 12.00
Mahachanok \$/SLTray	High Avg Low							70.00 58.75 55.00						70.00 58.75 55.00

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2014
Nam Dok Mai \$/SLTray	High							70.00						70.00
	Avg							58.75						58.75
	Low							55.00						55.00
Palmer \$/SLTray	High	24.00												24.00
	Avg	20.00												20.00
	Low	16.00												16.00
Pink Champagne \$/SLTray	High		30.00											30.00
	Avg		30.00											30.00
	Low		30.00											30.00
R2E2 \$/SLTray	High	30.00							50.00	45.00	35.00	30.00	30.00	50.00
	Avg	25.75							46.00	40.29	30.00	23.70	22.95	31.45
	Low	22.00							40.00	40.00	25.00	15.00	18.00	15.00
Tommy Atkins \$/SLTray	High				35.00	35.00	32.00	28.00	28.00					35.00
	Avg				30.50	30.68	28.10	26.50	26.50					28.46
	Low				30.00	30.00	25.00	25.00	25.00					25.00
All Varieties \$/SLTray	High	36.00	50.00	50.00	50.00	35.00	36.00	70.00	60.00	75.00	70.00	36.00	36.00	75.00
	Avg	22.05	31.54	39.94	35.43	30.62	29.40	50.74	39.50	42.38	46.68	21.22	26.34	33.37
	Low	10.00	16.00	34.00	30.00	30.00	25.00	25.00	25.00	20.00	20.00	12.00	18.00	10.00

2015 Adelaide MANGOES (All Origins)

MANGOES		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015
Tommy Atkins \$/10LTray	High				35.00	35.00								35.00
	Avg				33.33	28.45								30.89
	Low				30.00	25.00								25.00
Honey Gold \$/15KgCtn	High	35.00	40.00	28.00										40.00
	Avg	29.25	31.08	26.00										28.78
	Low	24.00	24.00	24.00										24.00
Fa Lan \$/18LCtn	High	60.00												60.00
	Avg	60.00												60.00
	Low	60.00												60.00
Kensington Pride \$/18LCtn	High	30.00	40.00	50.00										50.00
	Avg	24.17	30.00	37.50										30.56
	Low	20.00	20.00	35.00										20.00
Kesar \$/18LCtn	High	55.00												55.00
	Avg	55.00												55.00
	Low	55.00												55.00
R2E2 \$/18LCtn	High	35.00												35.00
	Avg	35.00												35.00
	Low	35.00												35.00
All Varieties \$/18LCtn	High	60.00	40.00	50.00										60.00
	Avg	43.54	30.00	37.50										40.28
	Low	20.00	20.00	35.00										20.00
Brook \$/SLTray	High			24.00	24.00									24.00
	Avg			22.00	22.00									22.00
	Low			20.00	20.00									20.00
Calypso \$/SLTray	High		30.00	20.00										30.00
	Avg		25.13	19.00										22.06
	Low		18.00	18.00										18.00
Celebration \$/SLTray	High		26.00	22.00										26.00
	Avg		21.00	20.00										20.50
	Low		18.00	18.00										18.00
Honey Gold \$/SLTray	High	36.00	35.00	35.00										36.00
	Avg	33.25	32.50	32.50										32.75
	Low	30.00	30.00	30.00										30.00
Keitt \$/SLTray	High		28.00	26.00										28.00
	Avg		19.23	17.50										18.37
	Low		12.00	12.00										12.00
Kensington Pride \$/SLTray	High	32.00	45.00	45.00										45.00
	Avg	24.60	26.57	36.30										29.16
	Low	18.00	18.00	28.00										18.00
Palmer \$/SLTray	High		28.00	22.00										28.00
	Avg		19.07	16.50										17.79
	Low		12.00	12.00										12.00
R2E2 \$/SLTray	High	28.00	24.00											28.00
	Avg	21.62	21.60											21.61
	Low	16.00	20.00											16.00
All Varieties \$/SLTray	High	36.00	45.00	45.00	24.00									45.00
	Avg	26.49	23.59	23.40	22.00									23.91
	Low	16.00	12.00	12.00	20.00									12.00

Appendix 2.

Mango retail prices by city, store and variety

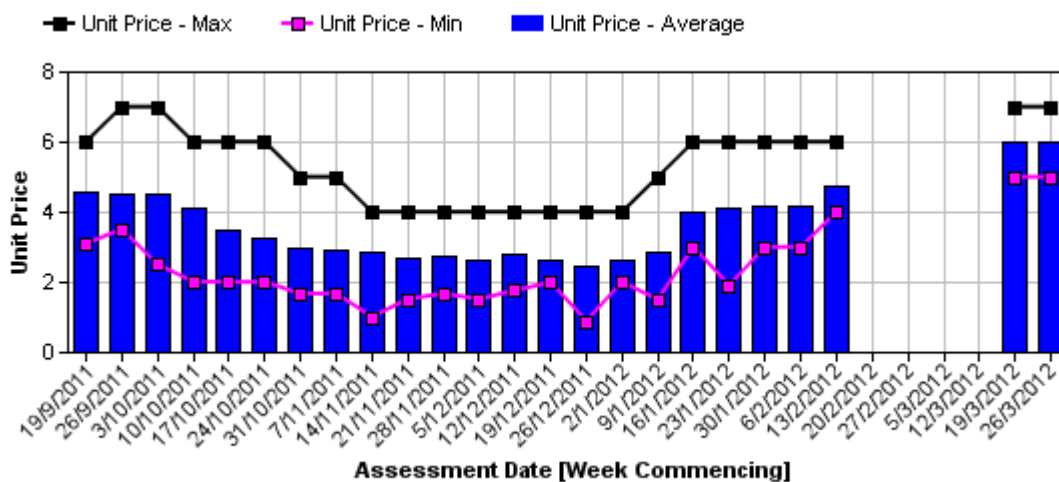
Sydney						Melbourne					
Store	Variety	Av Wt(g)	Unit Price	Special	Country of origin	Store	Variety	Av Wt(g)	Unit Price	Special	Country of origin
IC	Brooks	490	1.33	store	Aus	I	Calypso	470	1.99	no	Aus
IC	Brooks	420	1.50	store	Aus	IGA	Calypso	490	3.99	no	Aus
IC	Brooks	450	2.00	no	Aus	I	Honey Gold	420	1.99	no	NS
I	Honey Gold	540	4.99	no	Aus	I	Honey Gold	510	2.99	no	NS
I	Honey Gold	620	4.99	no	Aus	I	Honey Gold	505	2.99	no	Aus
I	Honey Gold	590	5.99	no	Aus	I	Honey Gold	610	3.25	no	NS
IC	Honey Gold	560	5.99	no	Aus	I	Honey Gold	595	3.25	no	NS
I	Honey Gold	600	5.99	no	Aus	I	Honey Gold	664	3.99	no	NS
I	Honey Gold	620	5.99	no	Aus	I	Keitt	510	1.49	no	Aus
I	Honey Gold	540	5.99	no	Aus	I	Keitt	445	1.99	no	NS
Woolworths	Keitt	450	2.48	no	Aus	I	Keitt	525	2.98	no	Aus
IC	Keitt	480	2.50	no	Aus	I	Keitt	540	2.98	no	Aus
Woolworths	Keitt	560	2.98	store	Aus	IC	Keitt	575	2.98	no	Aus
Woolworths	Keitt	510	2.98	no	Aus	I	Keitt	480	2.99	no	Aus
Coles	Keitt	500	2.98	no	Aus	I	Keitt	670	3.99	no	NS
Coles	Keitt	500	2.98	no	Aus	I	Keitt	625	3.99	no	NS
I	Keitt	550	2.99	no	Aus						
IC	Keitt	620	2.99	no	Aus						
IC	Keitt	480	2.99	no	Aus						
IC	Keitt	490	3.99	no	Aus						
I	Keitt	590	5.99	no	Aus						

Brisbane						Perth					
Store	Variety	Av Wt(g)	Unit Price	Special	Country of origin	Store	Variety	Av Wt(g)	Unit Price	Special	Country of origin
I	Keitt	500	2.49	store	Aus	IS	KP	320	1.29	store	Aus
I	Keitt	549	2.50	store	Aus	I	KP	330	1.99	store	Aus
IGA	Keitt	600	3.99	no	Aus	Woolworths	KP	330	2.50	no	Aus
I	KP	484	4.99	cat	Aus	IGA	KP	400	3.29	no	Aus
I	KP	585	4.99	no	Aus	Woolworths	KP	470	3.48	no	Aus
I	KP	550	4.99	no	Aus	Woolworths	KP	380	3.48	no	Aus
I	KP	685	4.99	no	Aus	I	KP	470	3.99	no	NS
						IGA	KP	630	4.99	no	NS
						IGA	KP	590	4.99	no	Aus
						I	KP	450	4.99	no	Aus

Size ranges based on 7kg tray	Kensington Pride	Store codes	Special codes	Country of origin
Size/count	Weight (g)	I = Independent Fruit and Vegetable stores	Cat = fruit is on catalogue special for that city this week	Aus = display sign indicates fruit is from Australia
12	580	IC = Independent Fruit and Vegetable store Chains	Store = fruit is on special in that store only this week	NS = display sign doesn't say where fruit is from
14	500	IS = Independent Supermarkets		
16	440			
18	390			
20	350			
22	320			

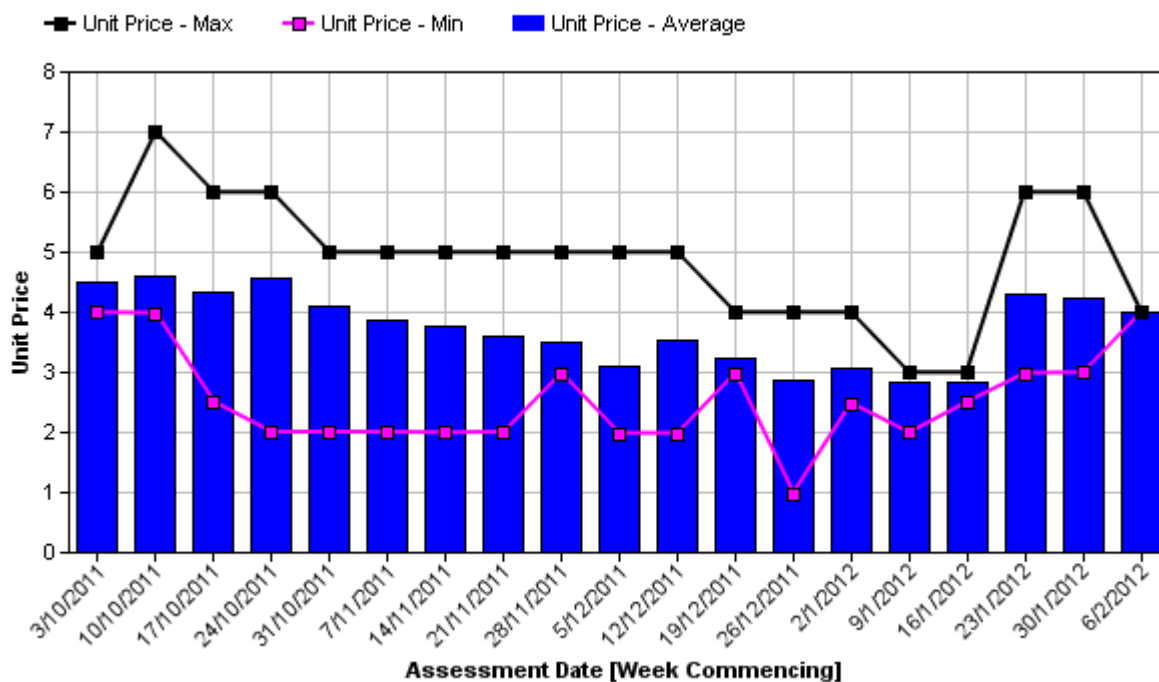
New South Wales - Kensington Pride

Kensington Pride - NSW Unit Price

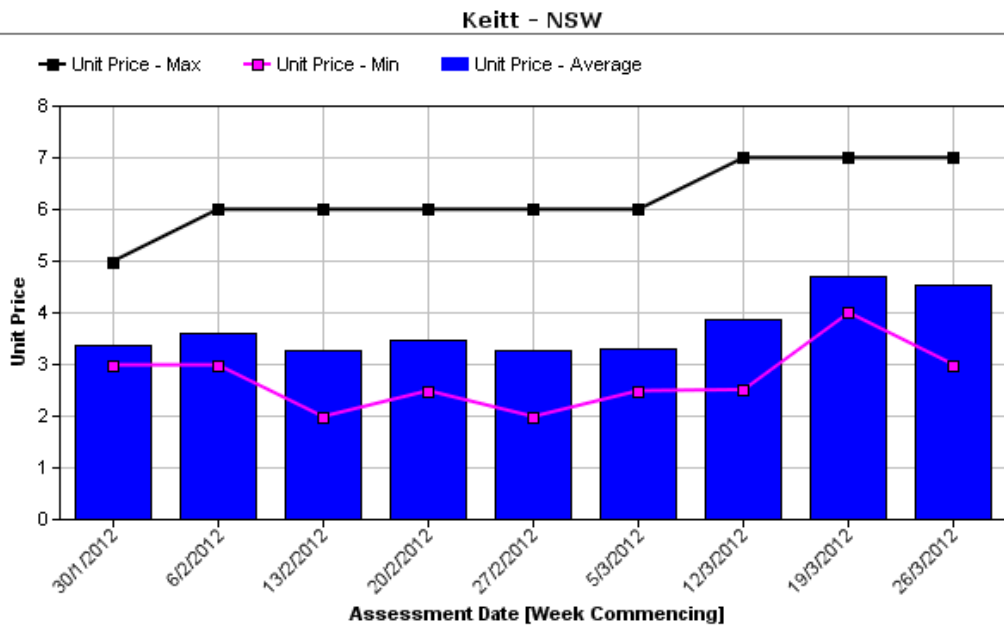


New South Wales - R2E2

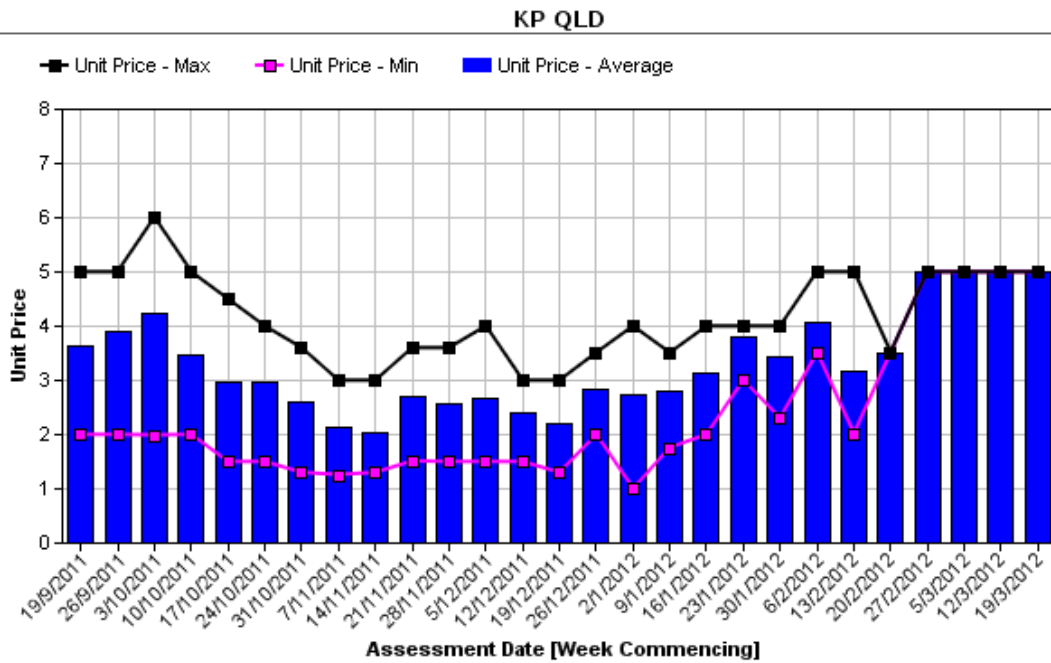
NSW - R2E2



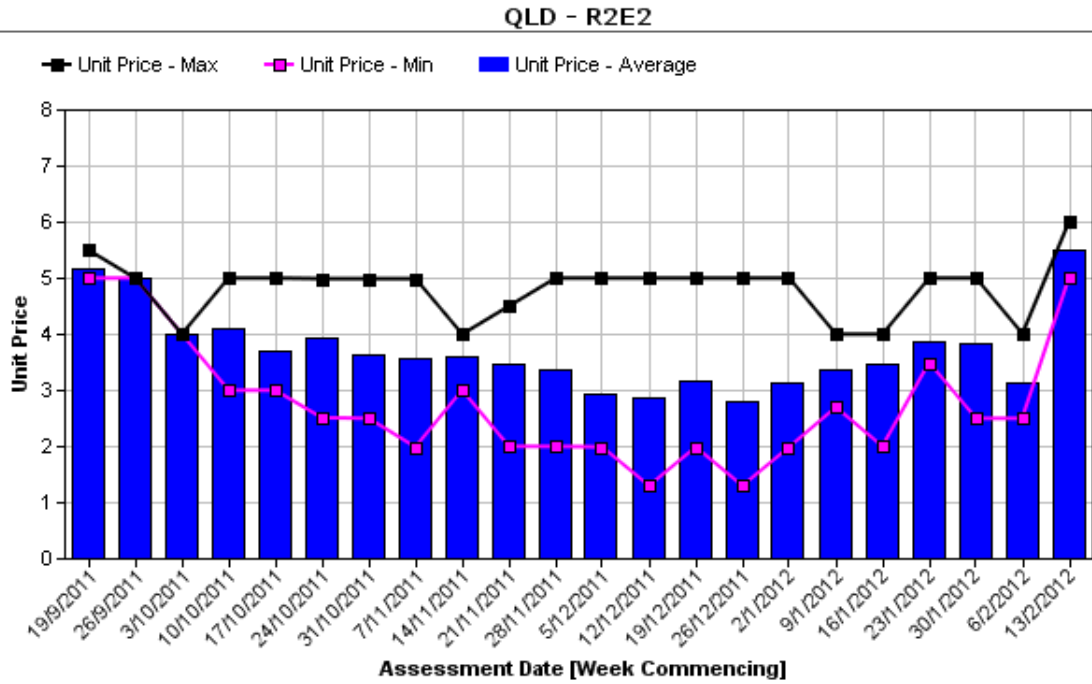
NSW - Keitt



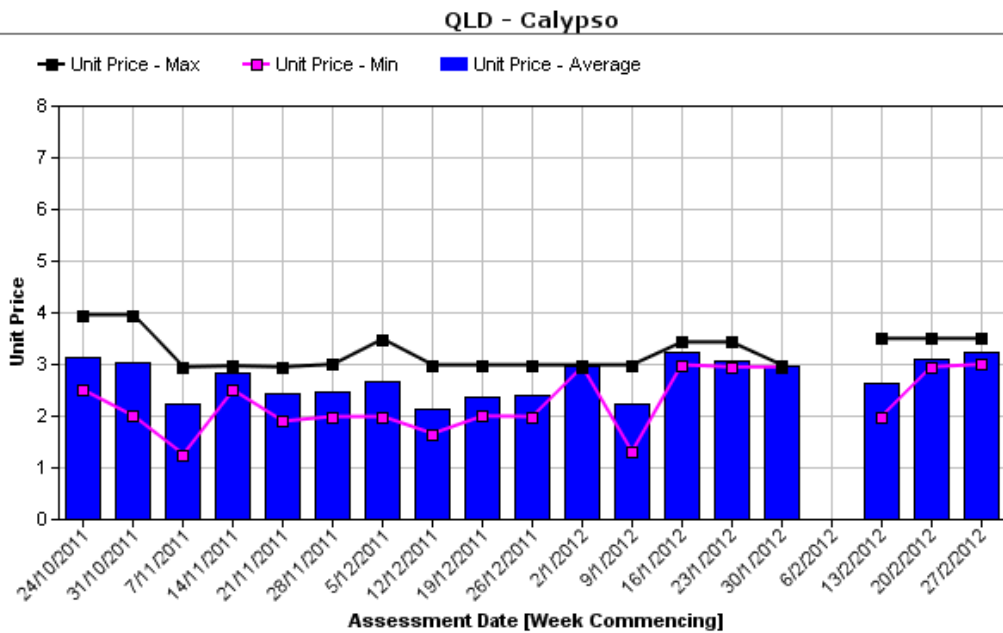
Queensland - Kensington Pride



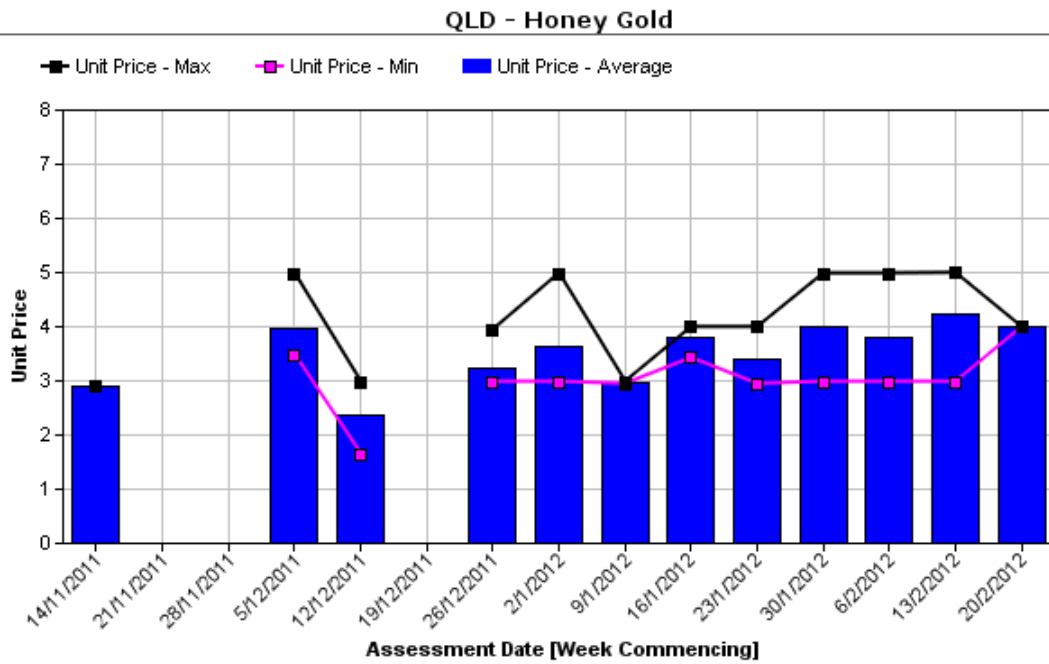
Queensland - R2E2



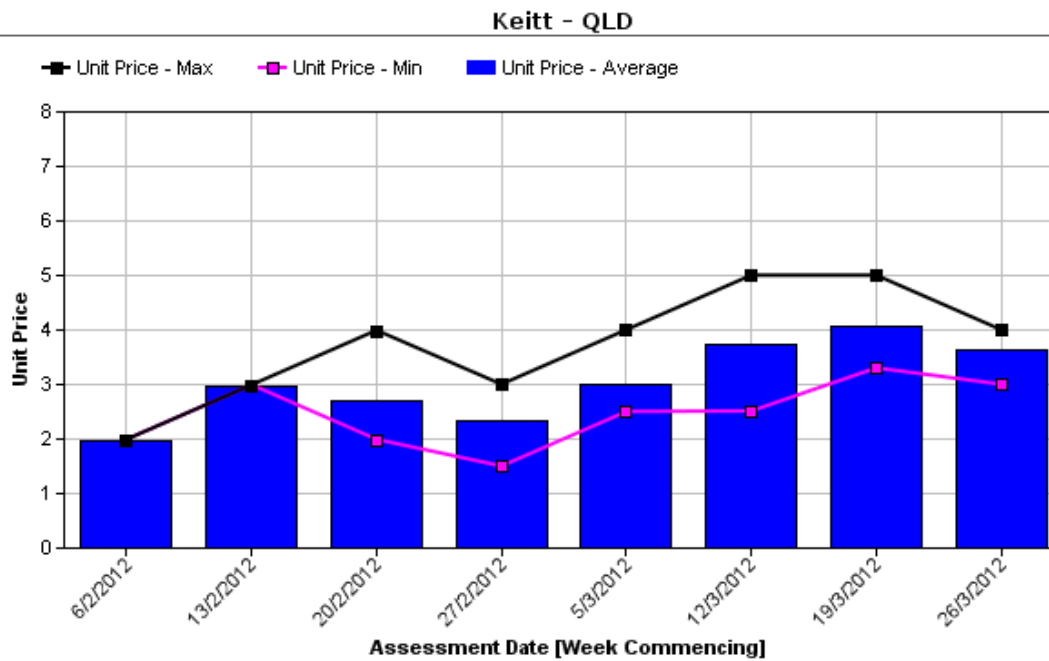
Queensland - Calypso



QLD - Honey Gold

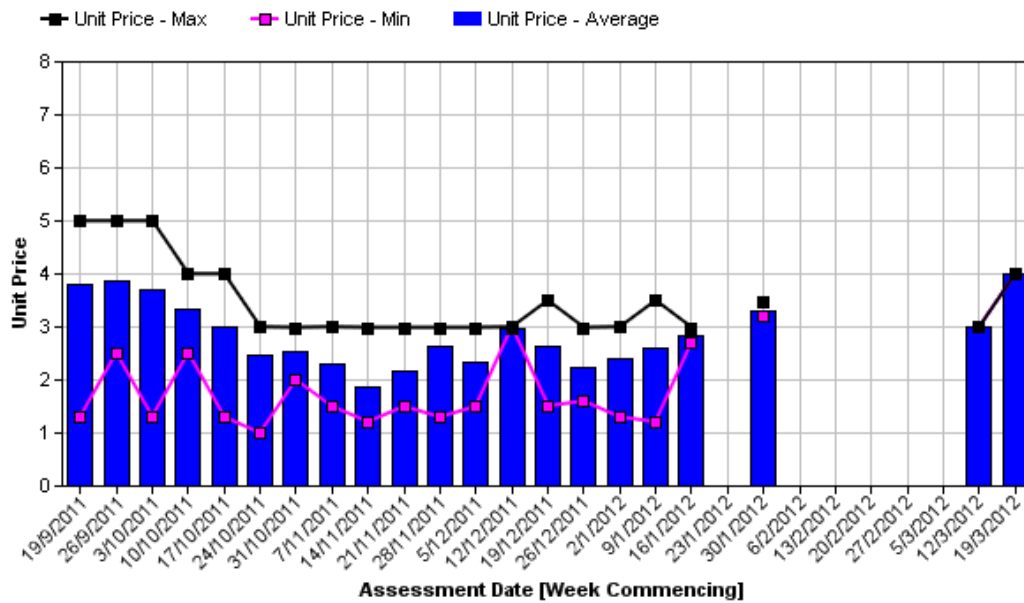


QLD - Keitt



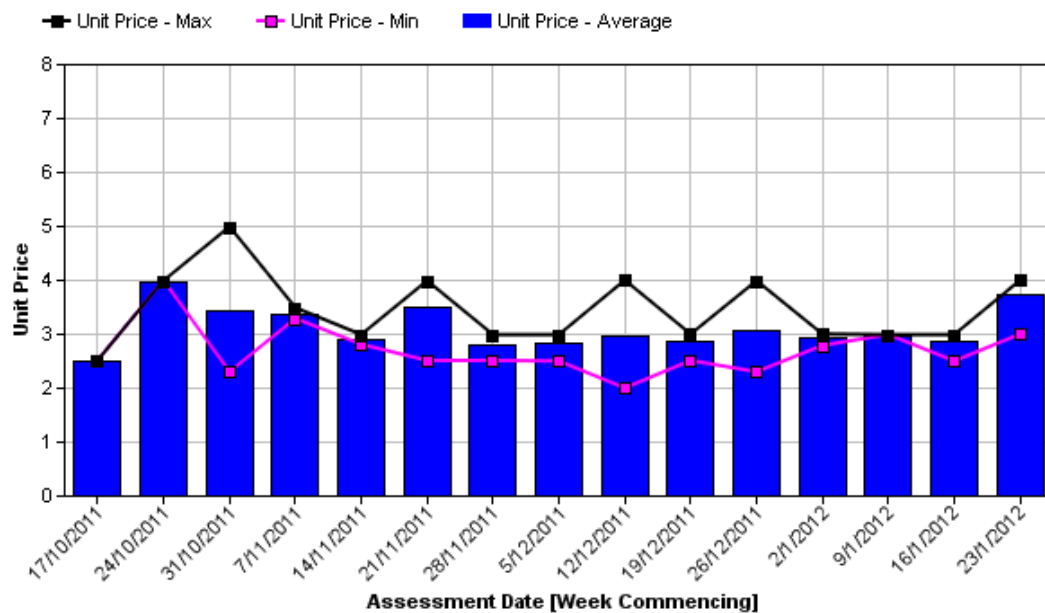
Victoria - Kensington Pride

KP VIC

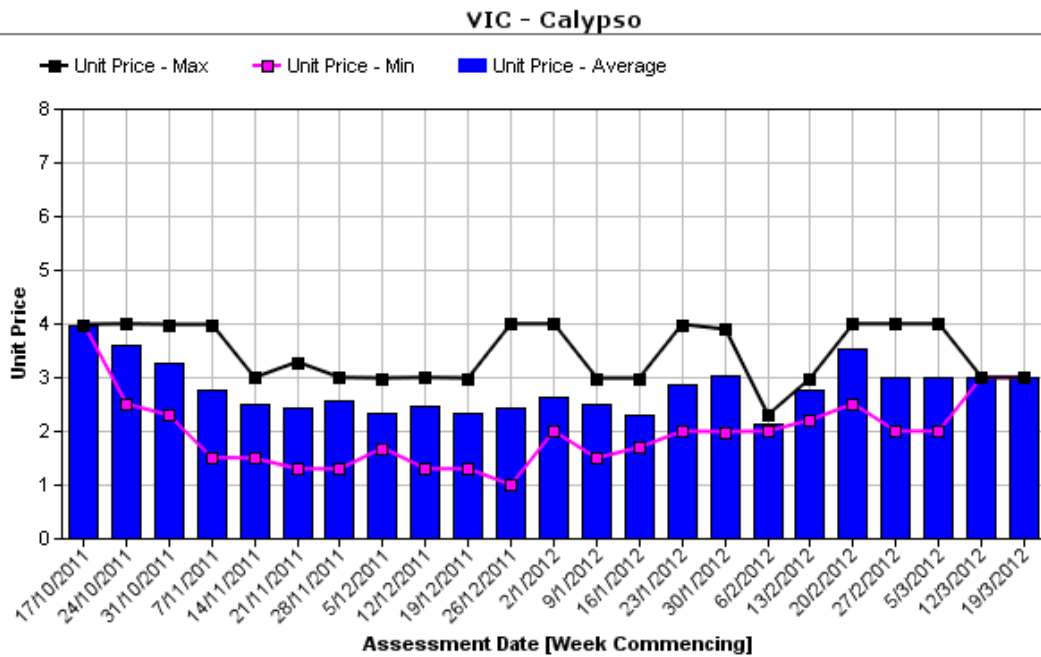


Victoria - R2E2

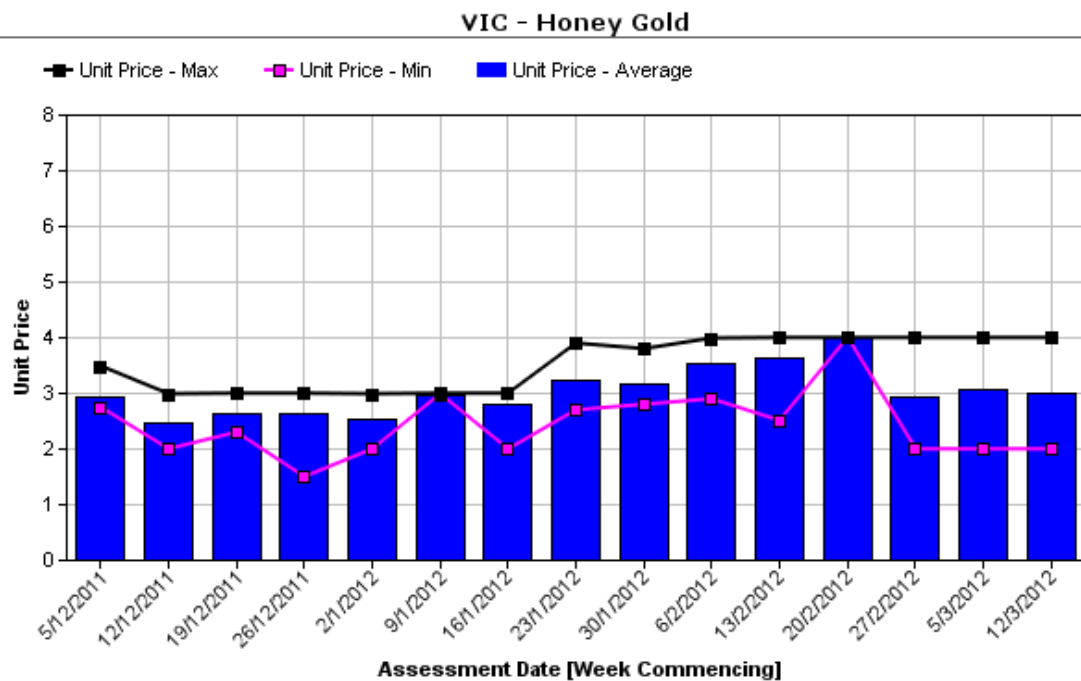
VIC - R2E2



Victoria - Calypso

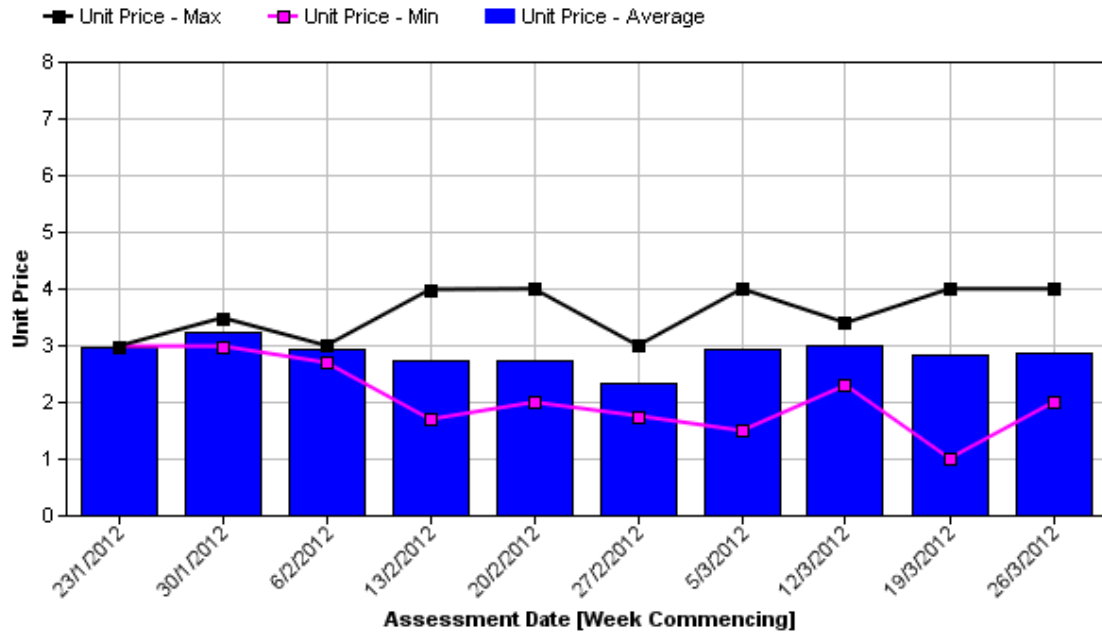


Victoria - Honey Gold



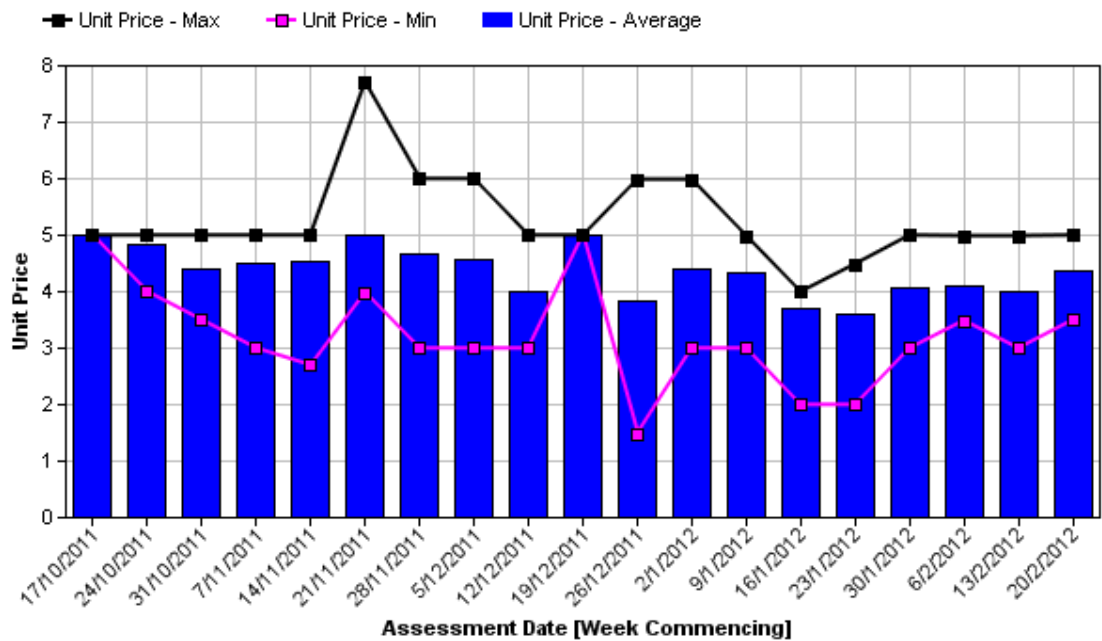
Victoria - Keitt

Keitt - VIC



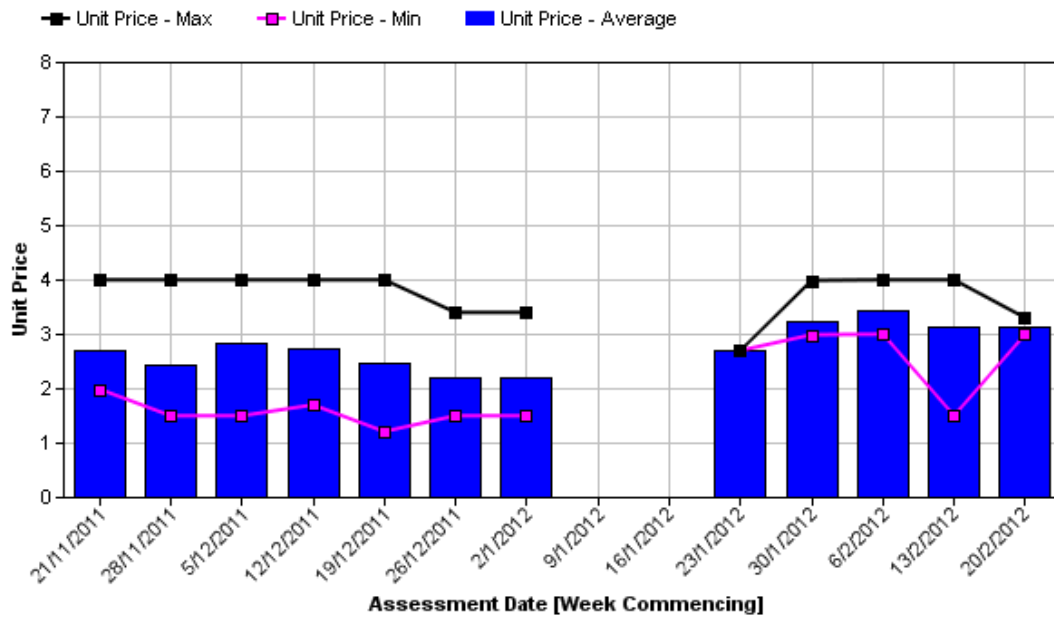
Western Australia - R2E2

WA - R2E2



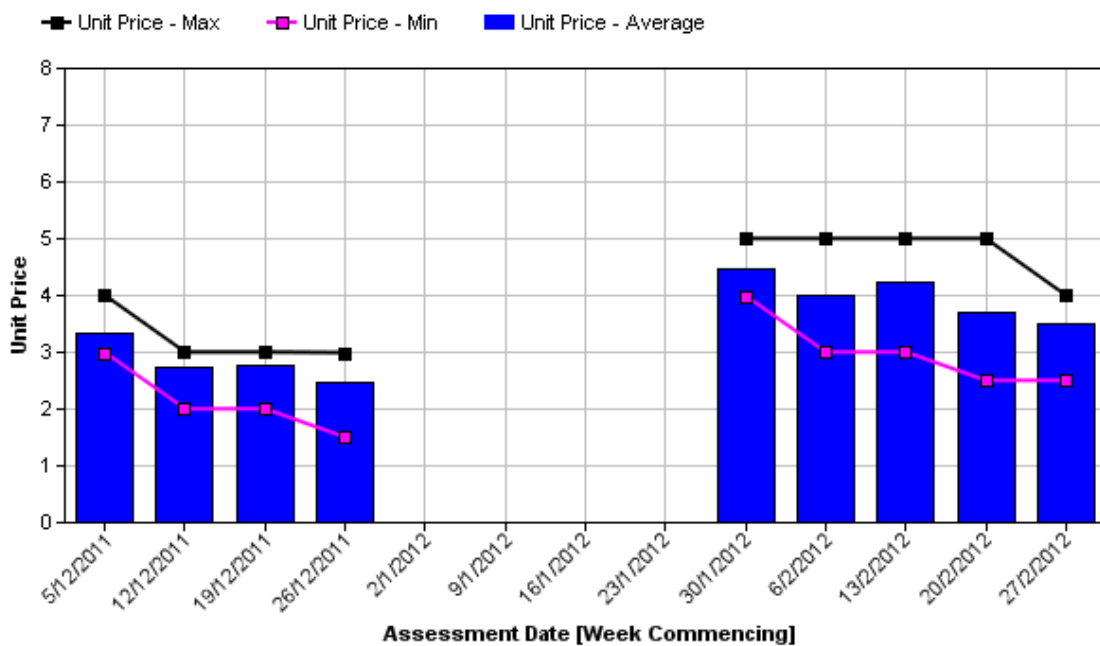
Western Australia - Calypso

WA - Galypso



Western Australia - Honey Gold

WA - Honey Gold



Appendix 3. Mango Objective Reporting

Example of Mango Objective Report, published weekly

Grower	Pack Date	Variety	Brix
	5/01/15	Honey Gold	16.5
	na	KP	15.4
	6/01/15	KP	15.1
	na	KP	14.9
	na	KP	14.8
	na	KP	14.4

Graph 1. Brix measurements throughout the season

