



FINAL REPORT

AUGUST 2015

Water Entitlement Market Prices Murray-Darling Basin (June Quarter 2015)

Report prepared for Australian Government
Department of the Environment

Marsden Jacob Associates

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TABLE OF CONTENTS

	Page
1. Introduction	1
2. Southern Murray-Darling Basin	4
2.1 SA Murray: Class 3a	5
2.2 VIC Murray above Barmah Choke: High Reliability	6
2.3 VIC Murray above Barmah Choke: Low Reliability	7
2.4 VIC Murray below Barmah Choke: High Reliability	8
2.5 VIC Murray below Barmah Choke: Low Reliability	9
2.6 Goulburn: High Reliability	10
2.7 Goulburn: Low Reliability	11
2.8 Campaspe: High Reliability	12
2.9 Loddon: High Reliability	13
2.10 NSW Murray: General Security	14
2.11 NSW Murray: High Security	15
2.12 NSW Murray Irrigation Limited	16
2.13 Murrumbidgee: General Security	17
2.14 Murrumbidgee: High Security	18
2.15 Lower Darling: General Security	19
2.16 Lower Darling: High Security	20
3. Northern Murray-Darling Basin	21
3.1 Macquarie: General Security	22
3.2 Namoi: General Security	23
3.3 Gwydir: General Security	24
3.4 NSW Border Rivers: General Security	25
3.5 Barwon Darling: Unregulated	26
3.6 Lachlan: General Security	27
3.7 Queensland	28
Appendix 1: Regions and water sources	29

1. Introduction

This June 2015 quarter water entitlement¹ market prices report was prepared by Marsden Jacob Associates (Marsden Jacob) for the Australian Government Department of the Environment. The report includes:

- Southern MDB market activity and price information by region and entitlement type (Section 2); and
- Northern MDB market activity and price information by region and entitlement type (Section 3);
- Catchment and water sources list (Appendix 1).

Region, entitlements and key statistics

The entitlement price report is broadly split into southern and northern Murray-Darling Basin (MDB), as detailed in Table 1. Interactive maps showing the location of these trading regions are available on the Murray-Darling Basin Authority's website². The water sources included in each of the regions are listed in Appendix 1.

Table 1: Regions and entitlement types

Southern MDB		Northern MDB	
Region	Entitlement Type	Region	Entitlement Type
SA Murray	Class 3a	Macquarie	General Security
VIC Murray above Barmah Choke	High Reliability	Namoi	General Security
VIC Murray above Barmah Choke	Low Reliability	Gwydir	General Security
Vic Murray below Barmah Choke	High Reliability	NSW Border Rivers	General Security
Vic Murray below Barmah Choke	Low Reliability	Barwon Darling	Unregulated
Goulburn	High Reliability	Lachlan	General Security
Goulburn	Low Reliability	Condamine Balonne (St George)	Supplemented
Campaspe	High Reliability	Condamine Balonne (Upper Condamine and Lower Balonne)	Unsupplemented
Campaspe	Low Reliability	Upper Condamine Alluvium Groundwater (1, 2, 3 and 4)	Groundwater (Sub Areas 1, 2, 3 and 4)
Loddon	High Reliability	QLD Border Rivers	Supplemented
NSW Murray	General Security	QLD Border Rivers	Unsupplemented
NSW Murray	High Security	Lower Balonne	Overland Flow
NSW Murray Irrigation Limited	General Security		
Murrumbidgee	General Security		

¹ Water access entitlement is a perpetual or ongoing entitlement to exclusive access to a share of water from a specified consumptive pool as defined in the relevant water plan, Source: Schedule B(ii), Intergovernmental Agreement on a National Water Initiative (NWI)

² <http://www.mdba.gov.au/what-we-do/managing-rivers/water-trade/water-markets-product-info>
<http://www.mdba.gov.au/what-we-do/managing-rivers/water-trade/southern-connected-trading-zones>

Southern MDB		Northern MDB	
Region	Entitlement Type	Region	Entitlement Type
Murrumbidgee	High Security		
Lower Darling	General Security		
Lower Darling	High Security		

As requested by the Department, for each of the regions and water entitlement categories Marsden Jacob reports a range of measures, subject to data availability and the number of trades:

- volume weighted average prices (VWAP);
- median price;
- mean price;
- mode price;
- percentile price 25th and 75th;
- price quintiles;
- trade volume;
- number of trades; and
- water trading exchange prices.

Data sources

The data sources for this report are:

- National Water Market Register data, up to 30 June 2014;
- State Government water registers and websites;
- Water exchange and broker noticeboard prices; and
- Information on Commonwealth acquisitions through purchase and infrastructure trades.

Notes

Entitlement prices in the State Government water registers can lag the exchange date of contracts or the water sale agreement by periods of days to several months, this means the entitlement prices shown in the monthly and quarterly VWAPs may not reflect exchanges during the month.

Entitlement prices that do not appear to reflect arms-length transactions have been excluded in the data cleaning process. Removing these values reduces price distortions in the reporting. This means prices in this report may differ from prices shown in registers where these transactions have not been removed.

Marsden Jacob uses a two stage process to clean the data, which is based on the approach used by the Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) and the former National Water Commission (NWC):

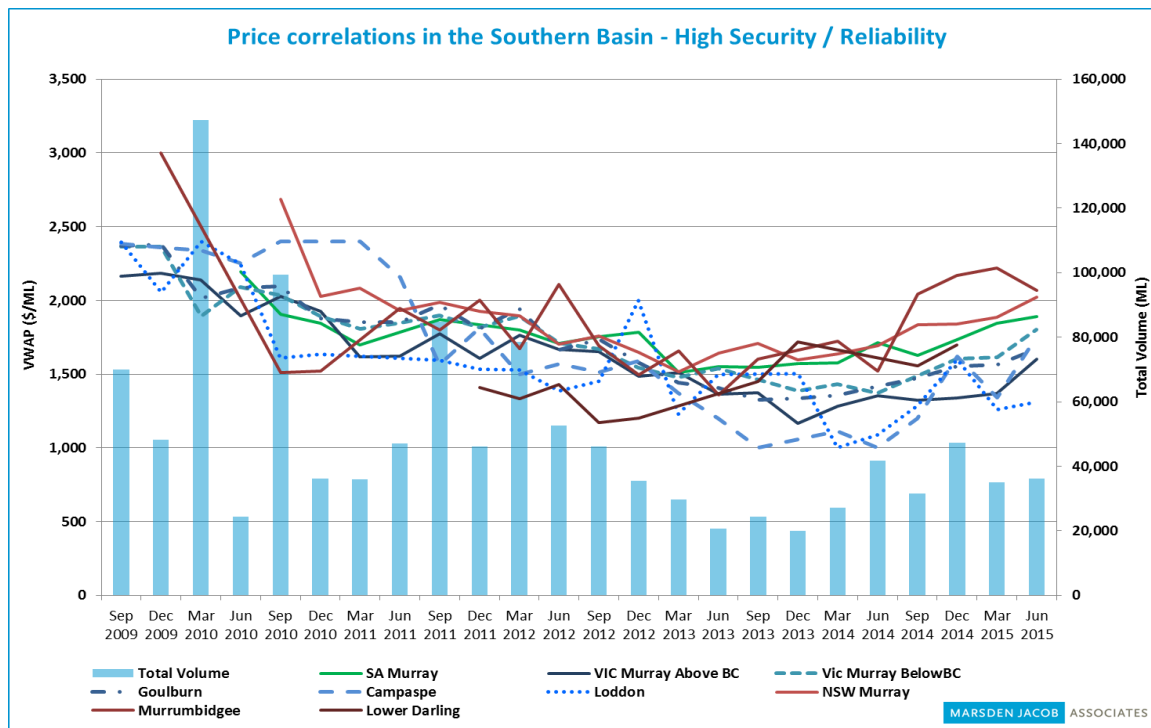
1. Removing prices that may not be genuine, e.g. removing transactions where the price was reported to be null (\$0 per ML); and

2. Reviewing and potentially removing transactions outside two standard deviations from the average price of water entitlements by region (or trading zone) and by water product.

Marsden Jacob does not necessarily remove all trades that fall outside two standard deviations as some of these reflect arms-length trades. If trades which fall outside two standard deviations are retained in the regional dataset this is noted in the region and entitlement specific reports.

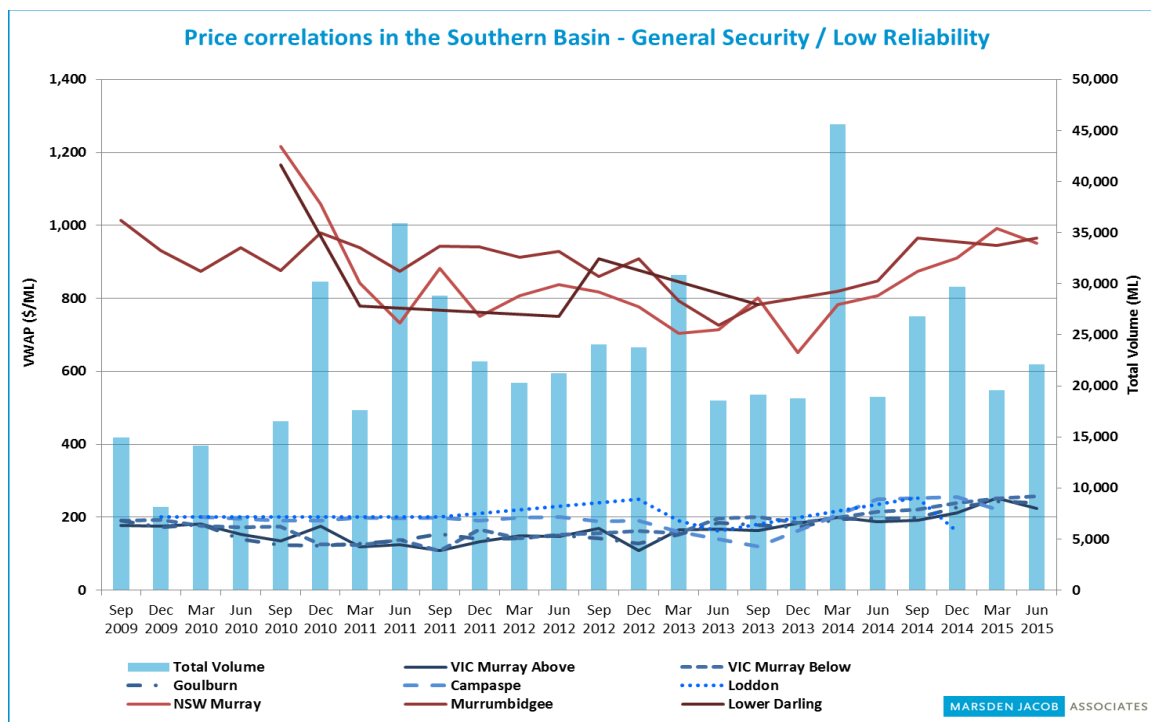
2. Southern Murray-Darling Basin

Figure 1: Price correlation in the Southern Basin: High Security / Reliability / Class 3a



Source: Marsden Jacob analysis, 2015

Figure 2: Price correlation in the Southern Basin: General Security / Low Reliability



Source: Marsden Jacob analysis, 2015

Note: Where possible, zero values have been interpolated in these charts so they differ slightly from the region and entitlement specific charts.

2.1 SA Murray: Class 3a

Figure 3: Entitlement market prices and volumes

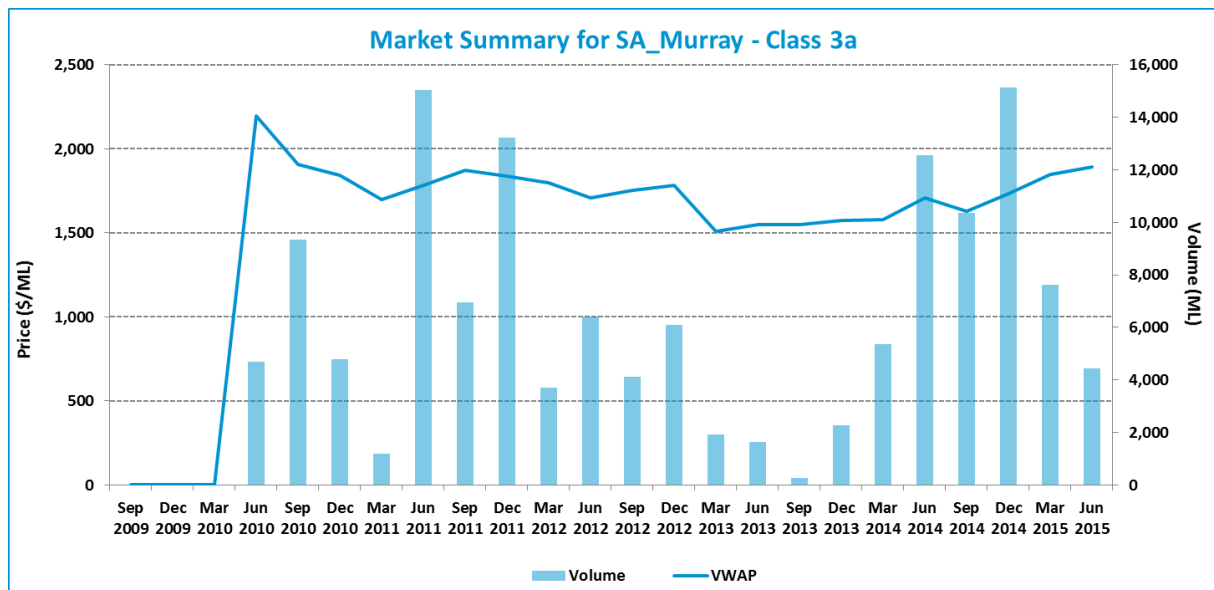
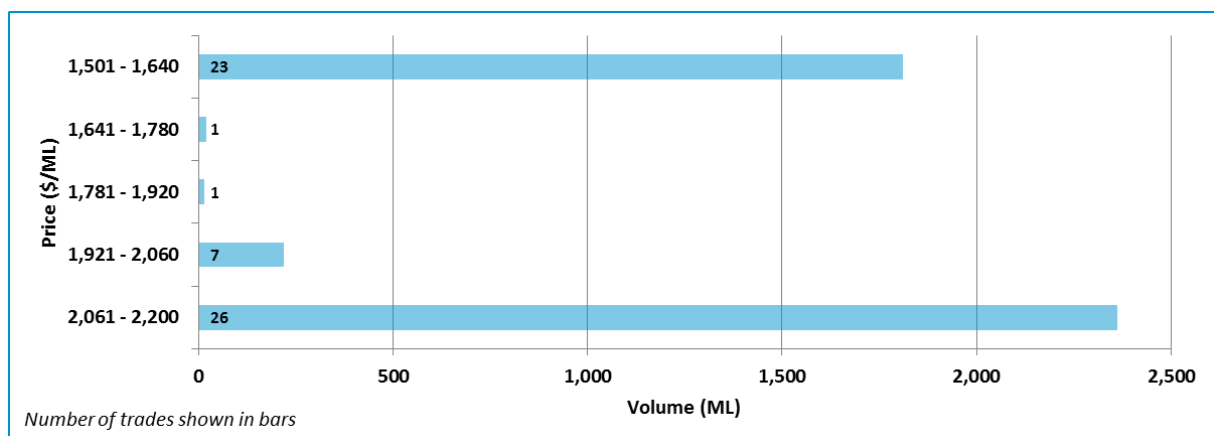


Table 2: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,937	1,891	1,747	1,508	2,100	2,038	1,867	1,500	4,425	58	2,150 – 2,400

Figure 4: Entitlement market price range by volume



Data Sources: SA Water Register (www.waterconnect.sa.gov.au/Systems/WTR/Pages/default.aspx), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.2 VIC Murray above Barmah Choke: High Reliability

Figure 5: Entitlement market prices and volumes

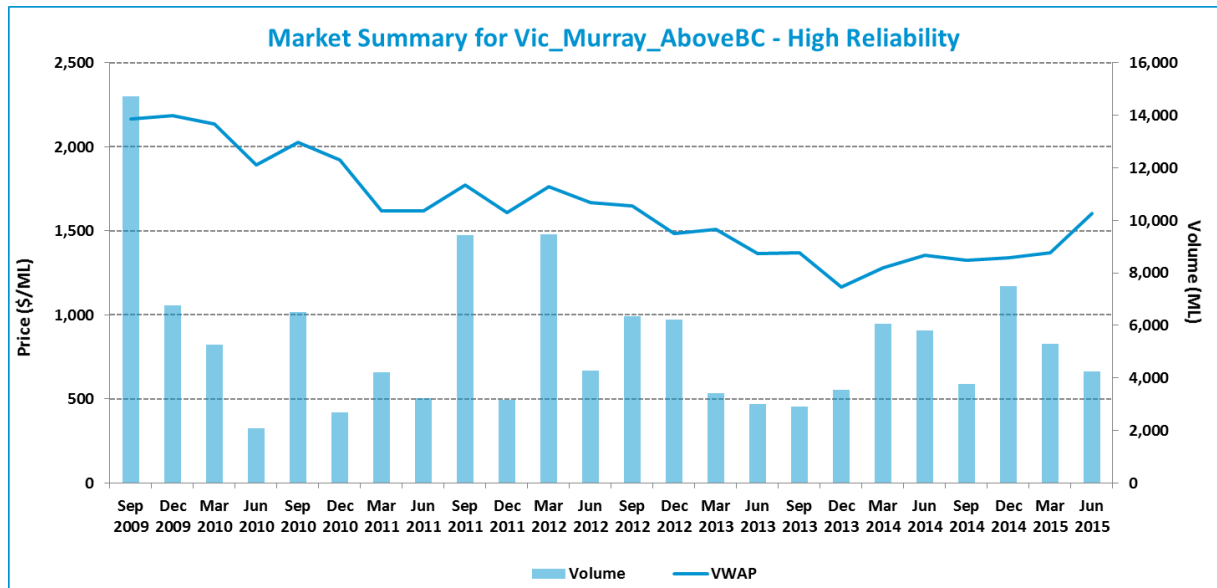
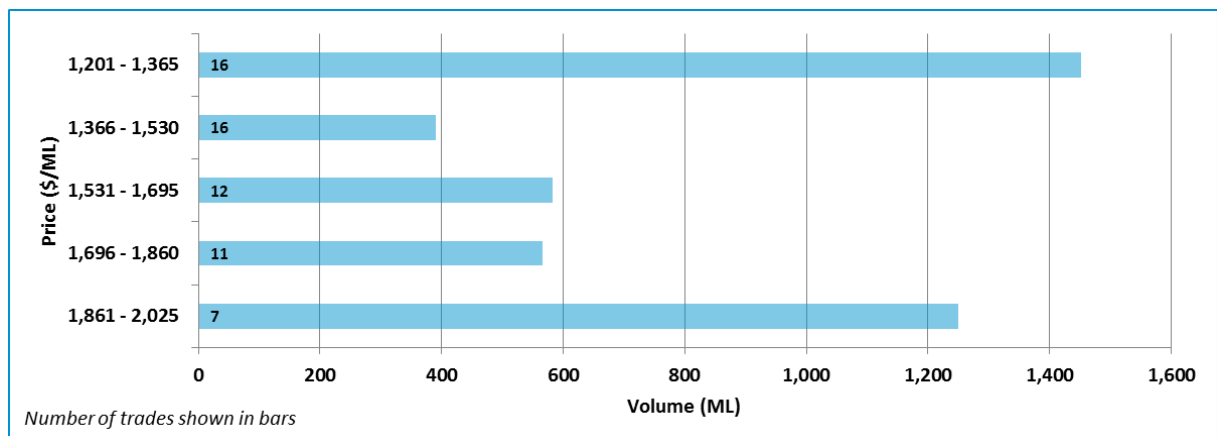


Table 3: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,770	1,603	1,398	1,363	1,700	1,500	1,553	1,500	4,242	62	2,000 – 3,000

Figure 6: Entitlement market price range by volume



Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.3 VIC Murray above Barmah Choke: Low Reliability

Figure 7: Entitlement market prices and volumes

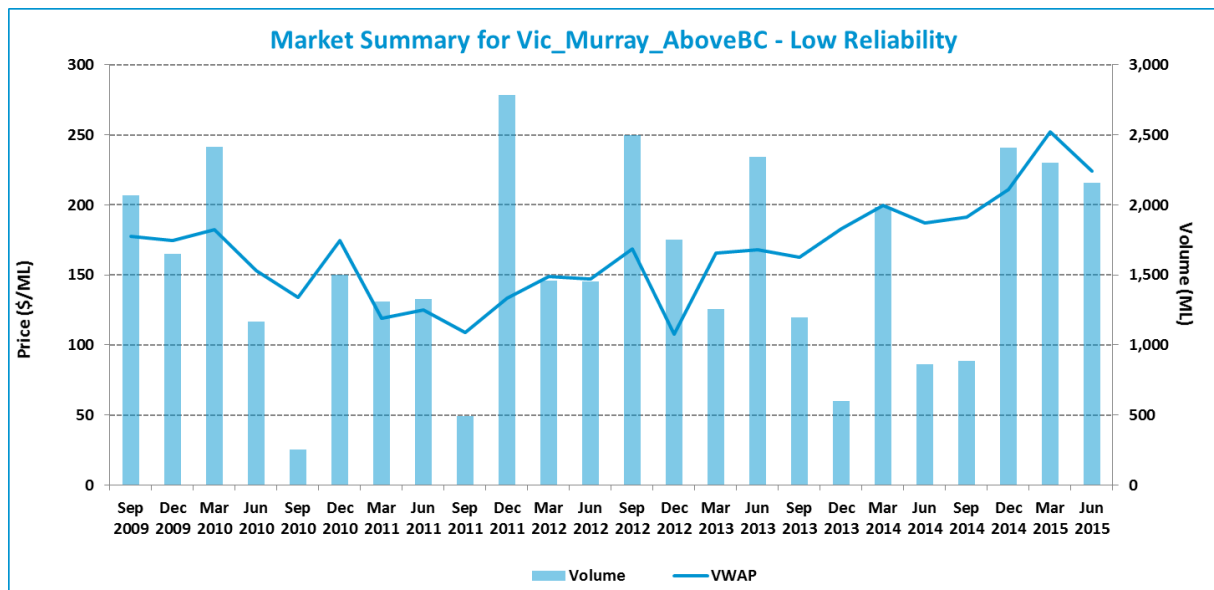
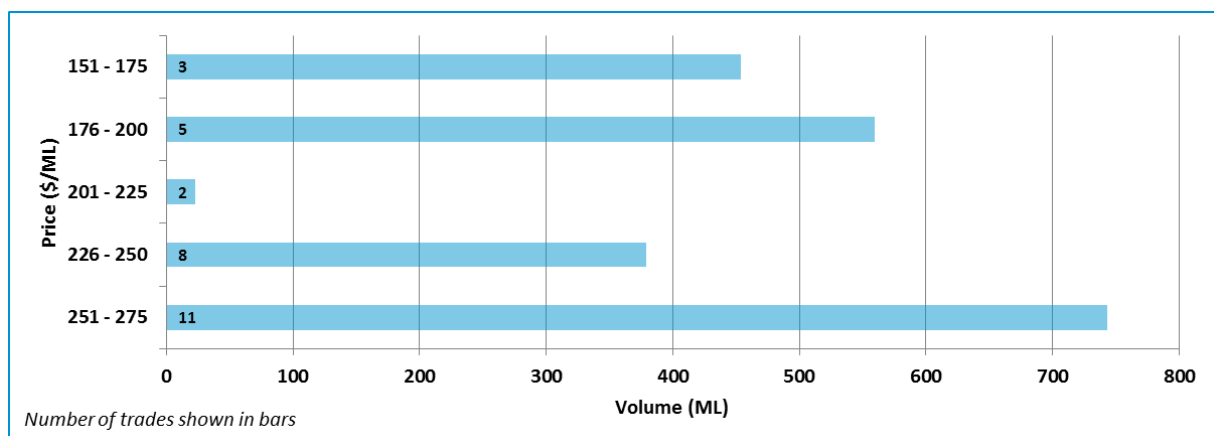


Table 4: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
206	224	225	200	270	250	237	200	2,159	29	220 – 300

Figure 8: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.4 VIC Murray below Barmah Choke: High Reliability

Figure 9: Entitlement market prices and volumes

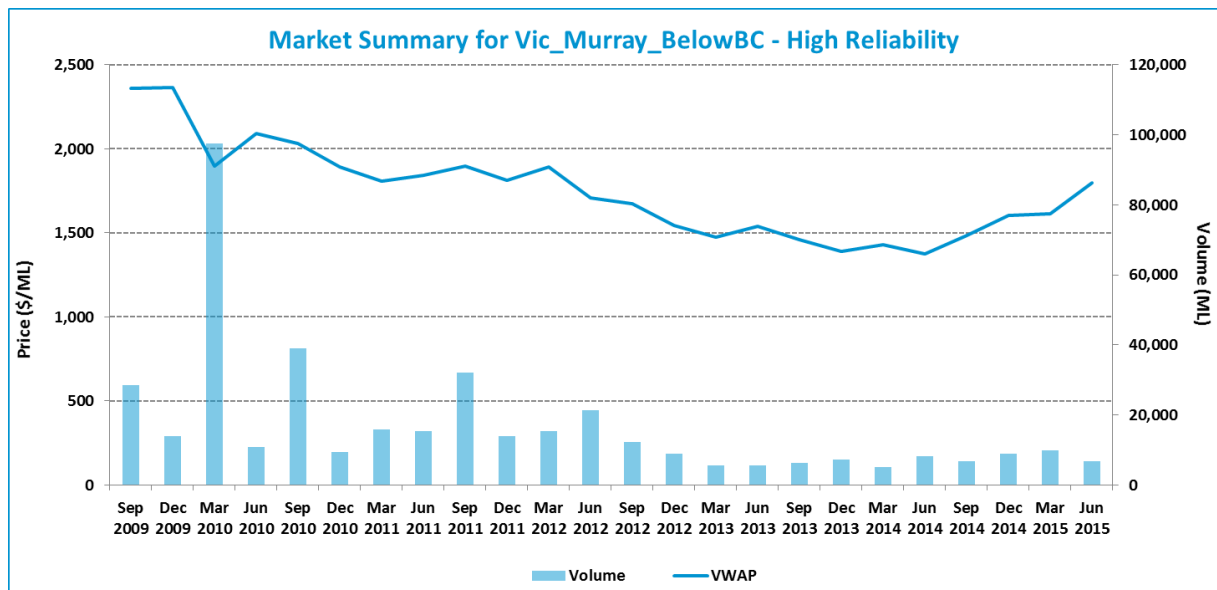
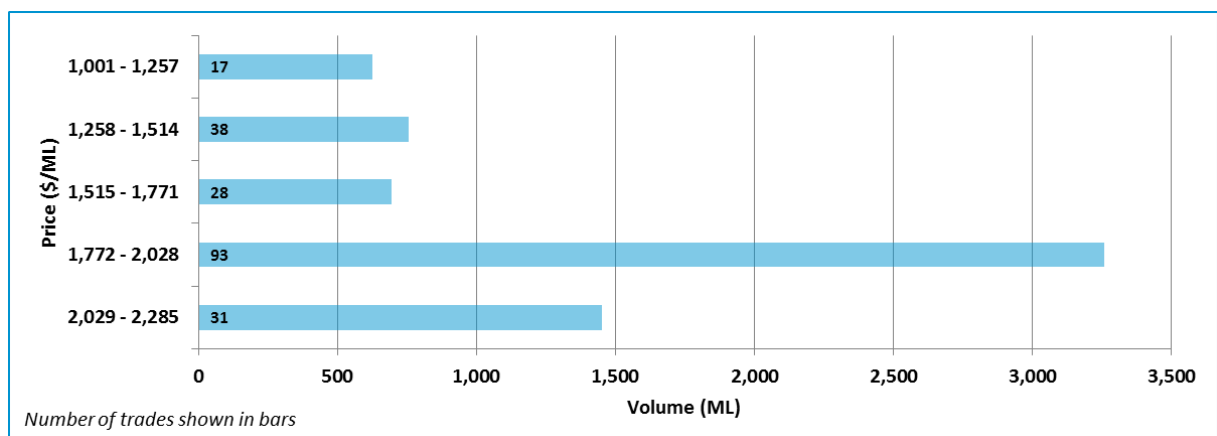


Table 5: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,951	1,800	1,623	1,500	1,995	1,800	1,757	1,800	6,794	207	2,000 – 3,000

Figure 10: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.5 VIC Murray below Barmah Choke: Low Reliability

Figure 11: Entitlement market prices and volumes

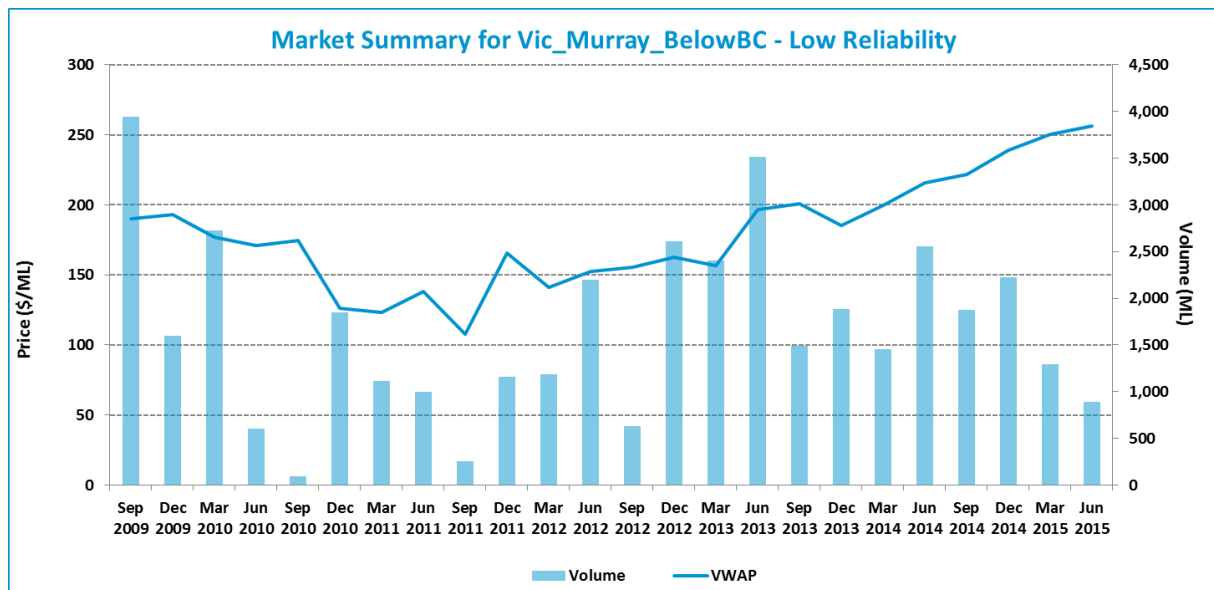
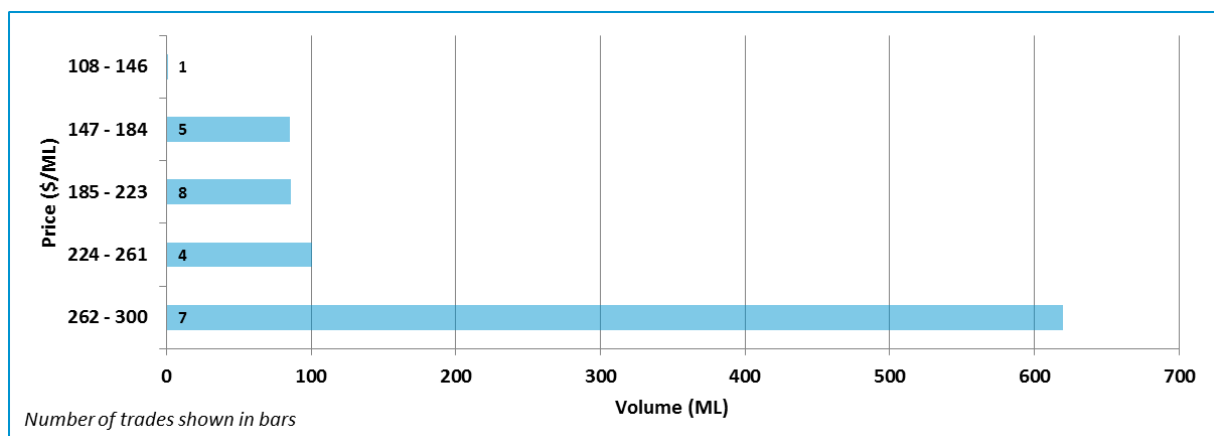


Table 6: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
246	257	239	200	265	220	217	200	894	25	220 – 300

Figure 12: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.6 Goulburn: High Reliability

Figure 13: Entitlement market prices and volumes

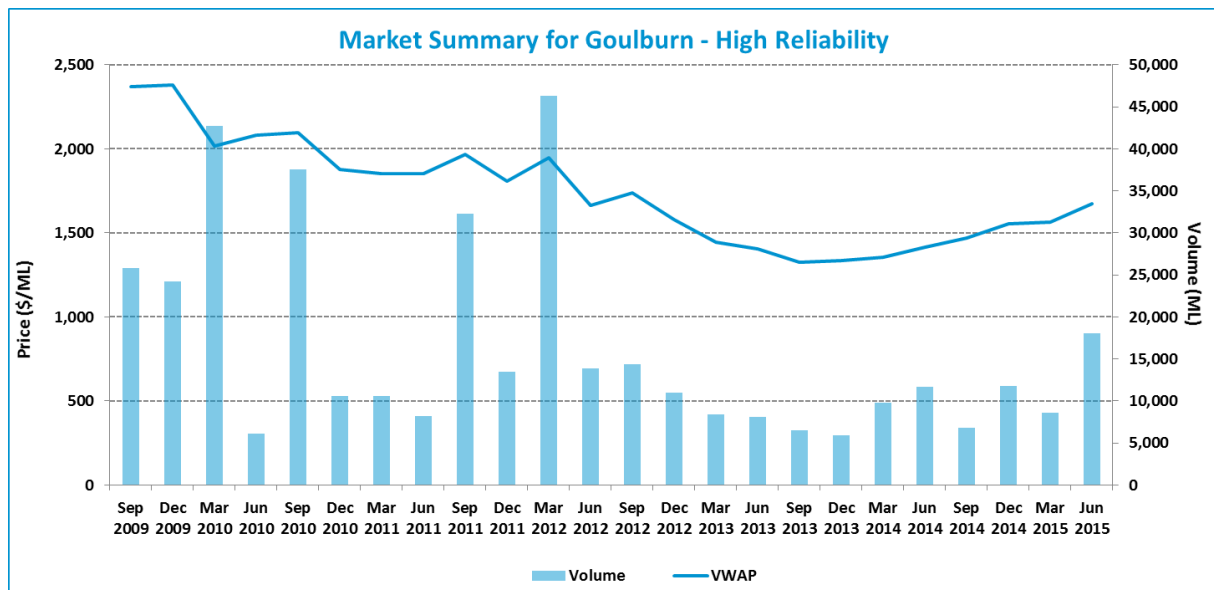
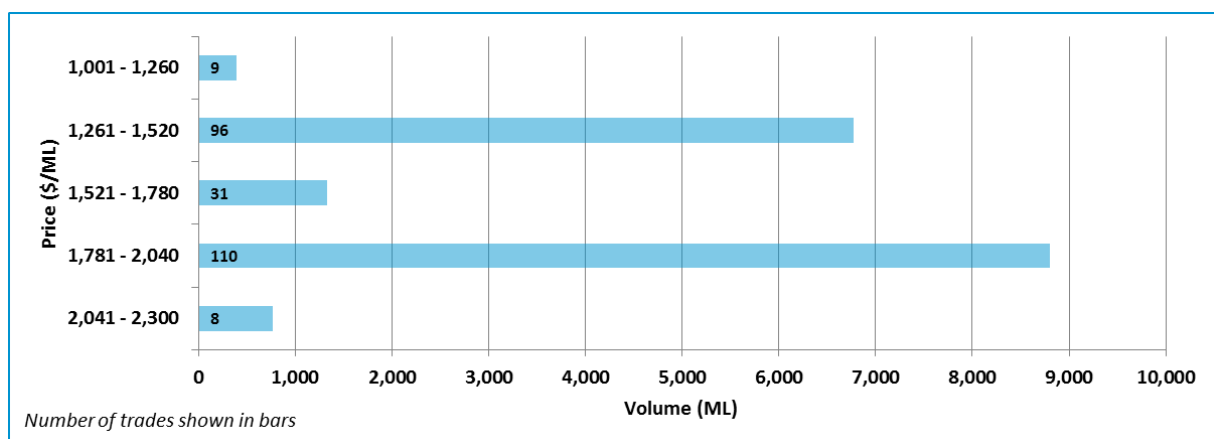


Table 7: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,698	1,673	1,591	1,400	1,850	1,750	1,658	1,400	18,071	254	1,700 – 2,400

Figure 14: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.7 Goulburn: Low Reliability

Figure 15: Entitlement market prices and volumes

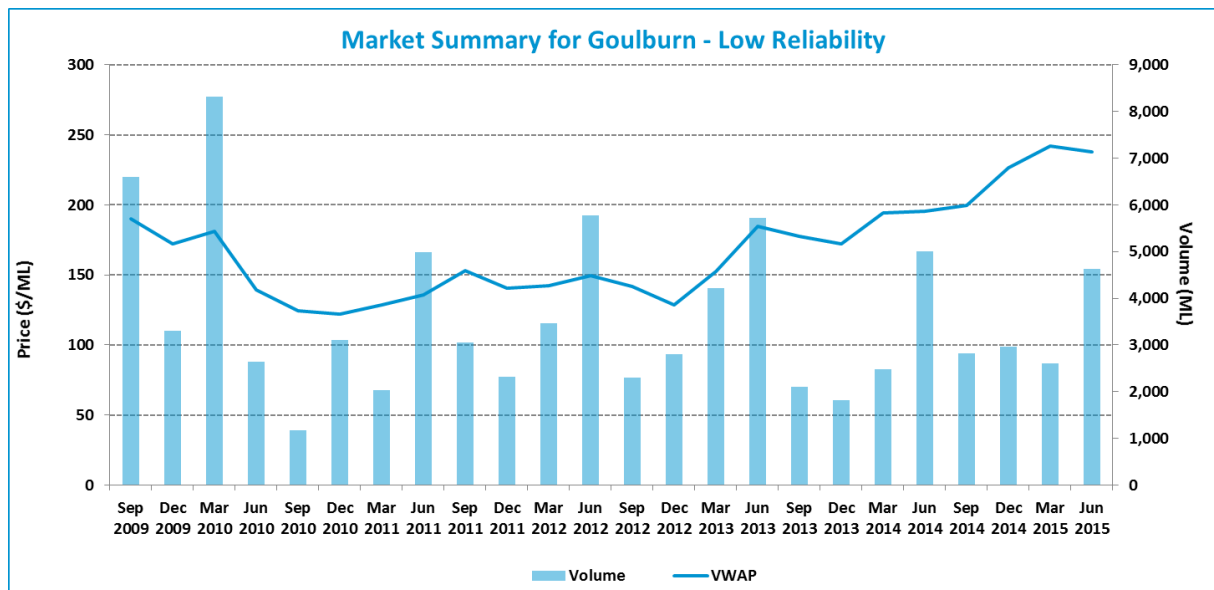
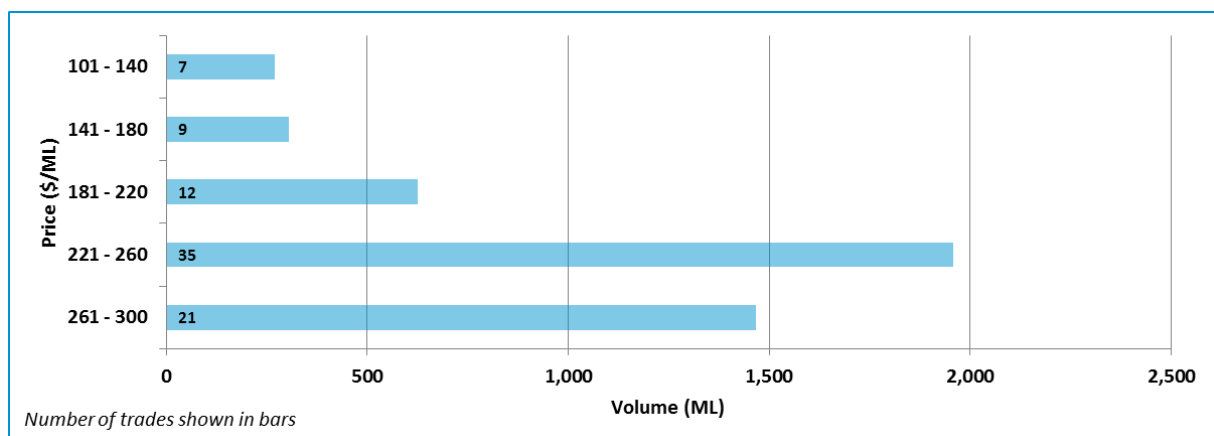


Table 8: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
240	238	228	200	263	250	229	250	4,625	84	220 – 300

Figure 16: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.8 Campaspe: High Reliability

Figure 17: Entitlement market prices and volumes

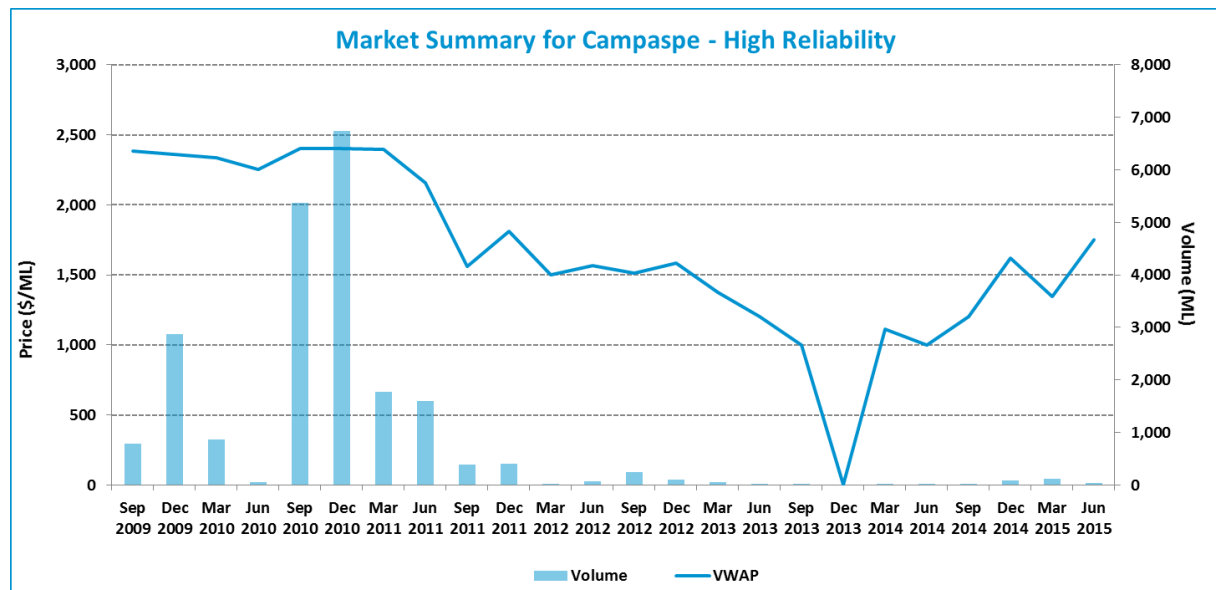


Table 9: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,750	1,750	1,498	-	-	-	-		30	1	1,550

Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.9 Loddon: High Reliability

Figure 18: Entitlement market prices and volumes

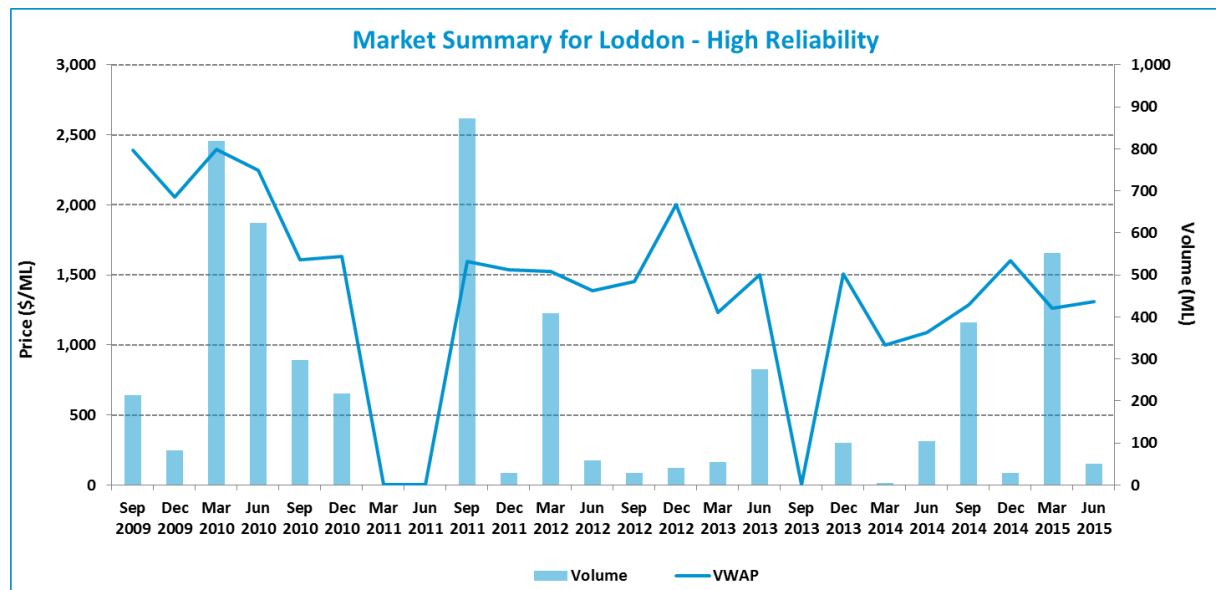
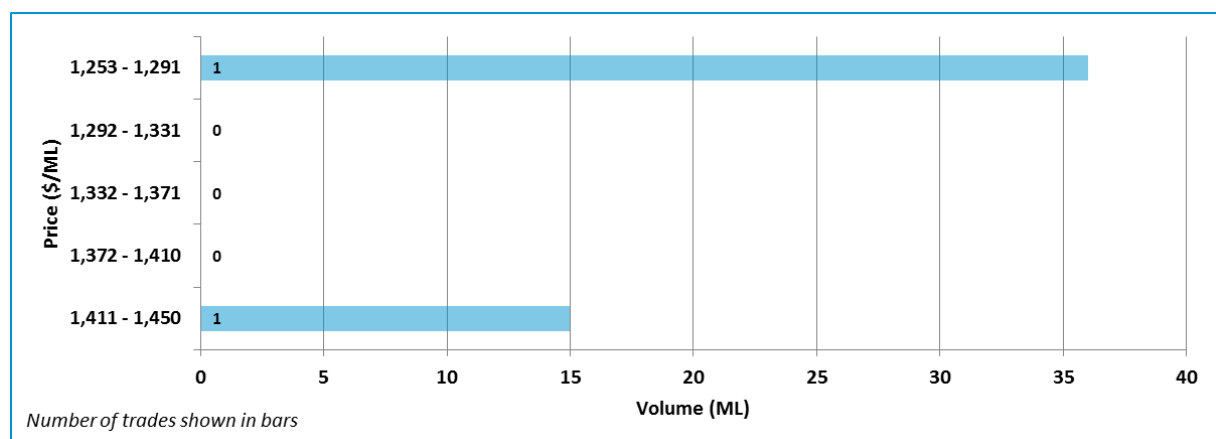


Table 10: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,450	1,310	1,282	1,301	1,400	1,351	1,351		51	2	1,500 – 2,400

Figure 19: Entitlement market price range by volume



Data Sources: VIC Water Register (waterregister.vic.gov.au/water-trading/water-share-trading), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.10 NSW Murray: General Security

Figure 20: Entitlement market prices and volumes

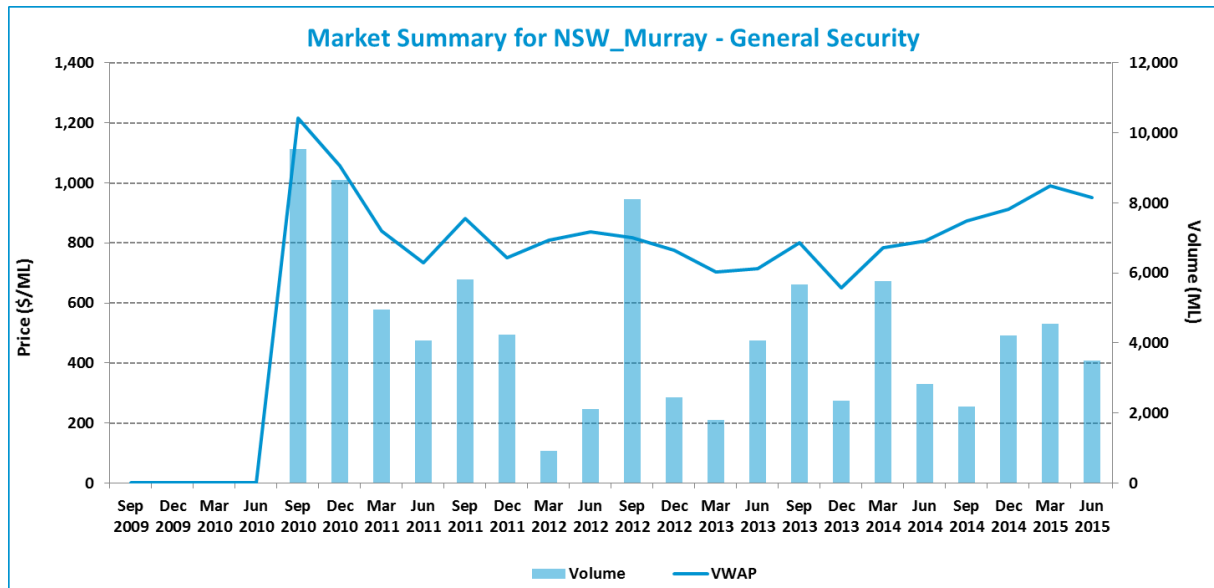
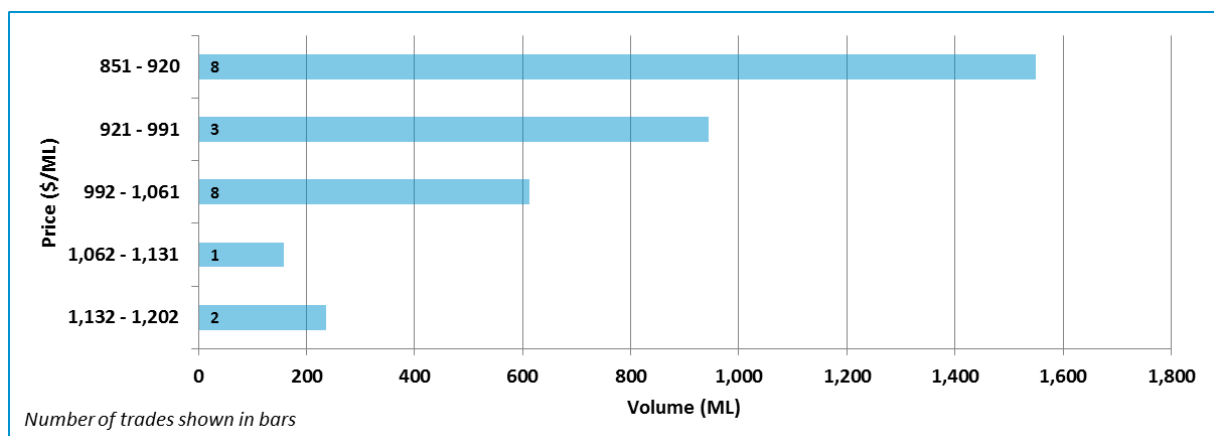


Table 11: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
950	951	940	863	1,015	995	975	850	3,502	22	1,000 – 1,300

Figure 21: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.11 NSW Murray: High Security

Figure 22: Entitlement market prices and volumes

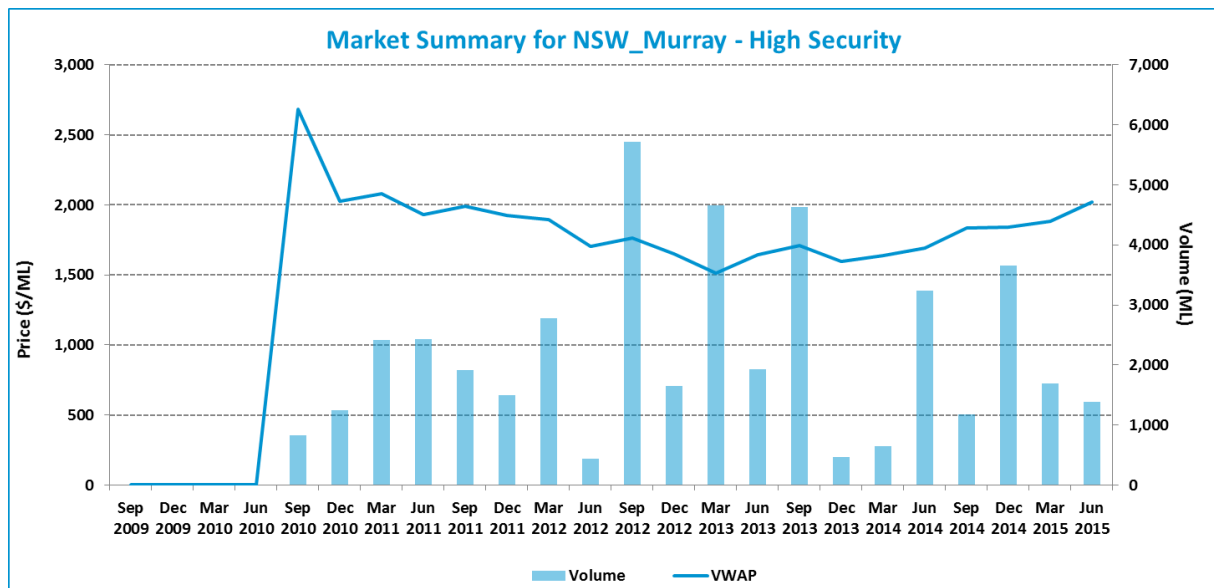
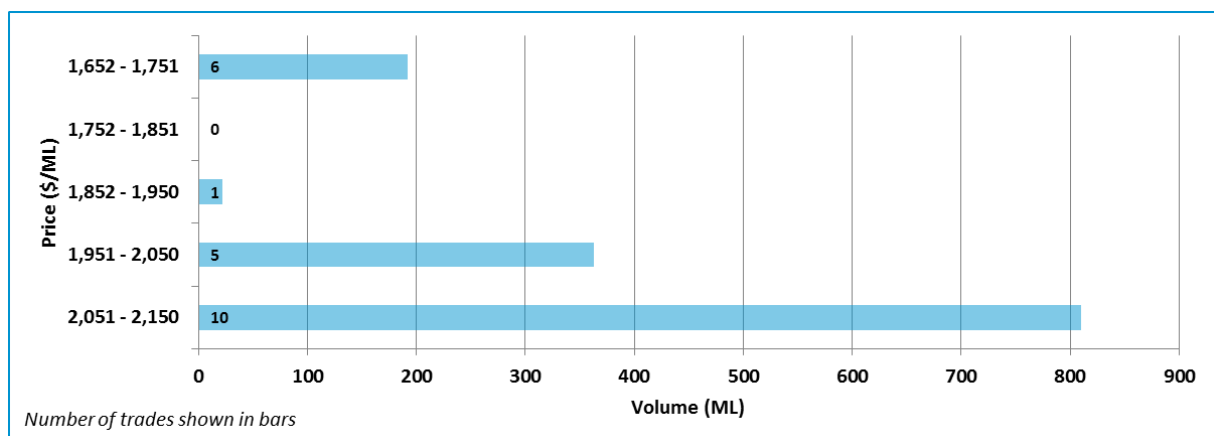


Table 12: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
2,052	2,023	1,882	1,758	2,095	2,031	1,962	1,700	1,388	22	2,750 – 3,000

Figure 23: Entitlement market price range by volume



Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind

(www.waterfind.com.au)

2.12 NSW Murray Irrigation Limited

Figure 24: Entitlement market prices and volumes

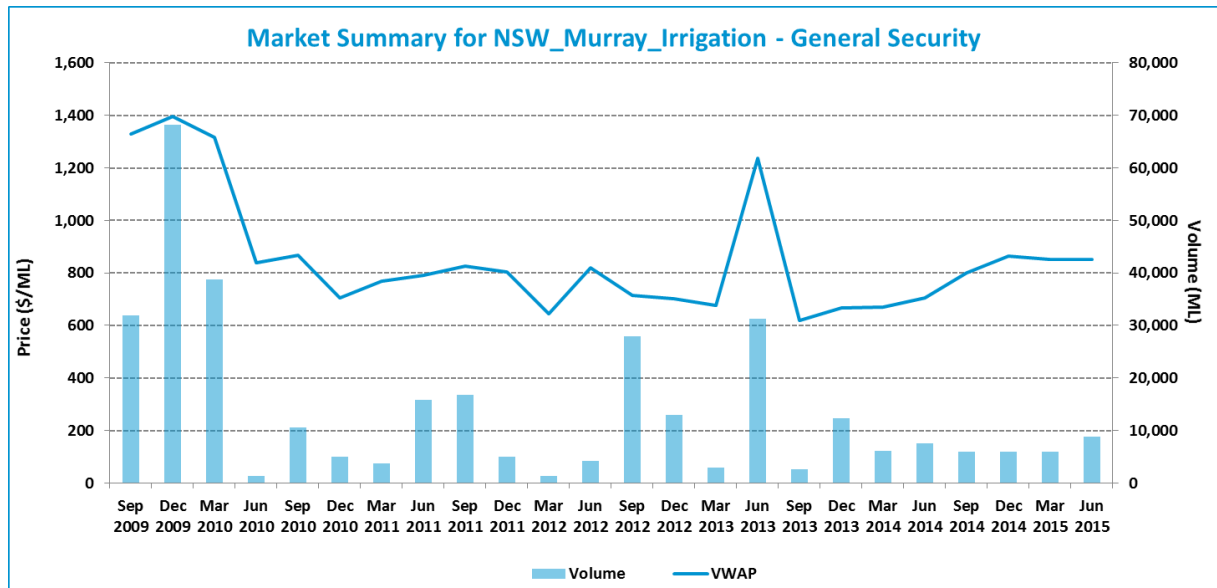
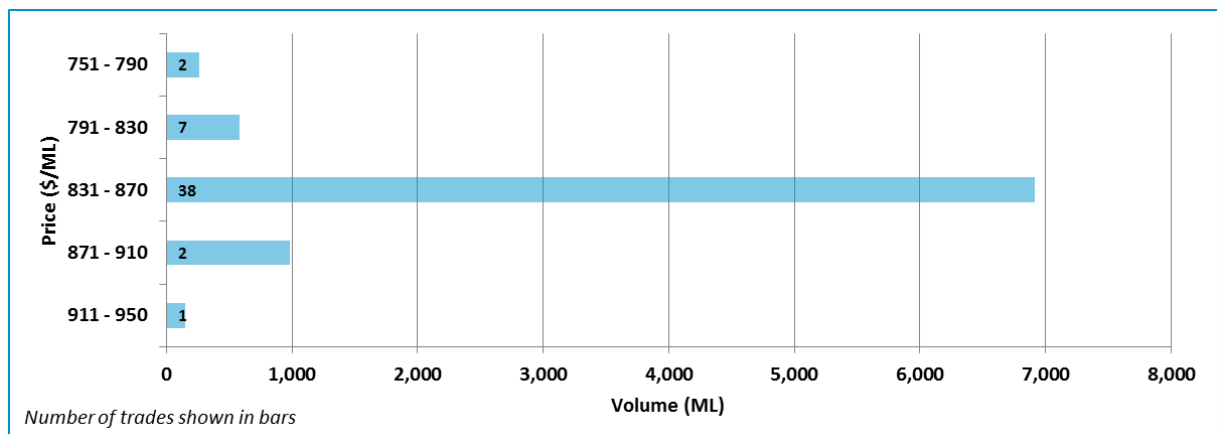


Table 13: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
848	850	843	850	850	850	843	850	8,889	50	700 – 1,075

Figure 25: Entitlement market price range by volume



Note: Some trades which are outside two standard deviations of the average price of water entitlements have been included for this region.

Data Sources: Murray Irrigation Limited (www.murrayirrigation.com.au)

2.13 Murrumbidgee: General Security

Figure 26: Entitlement market prices and volumes

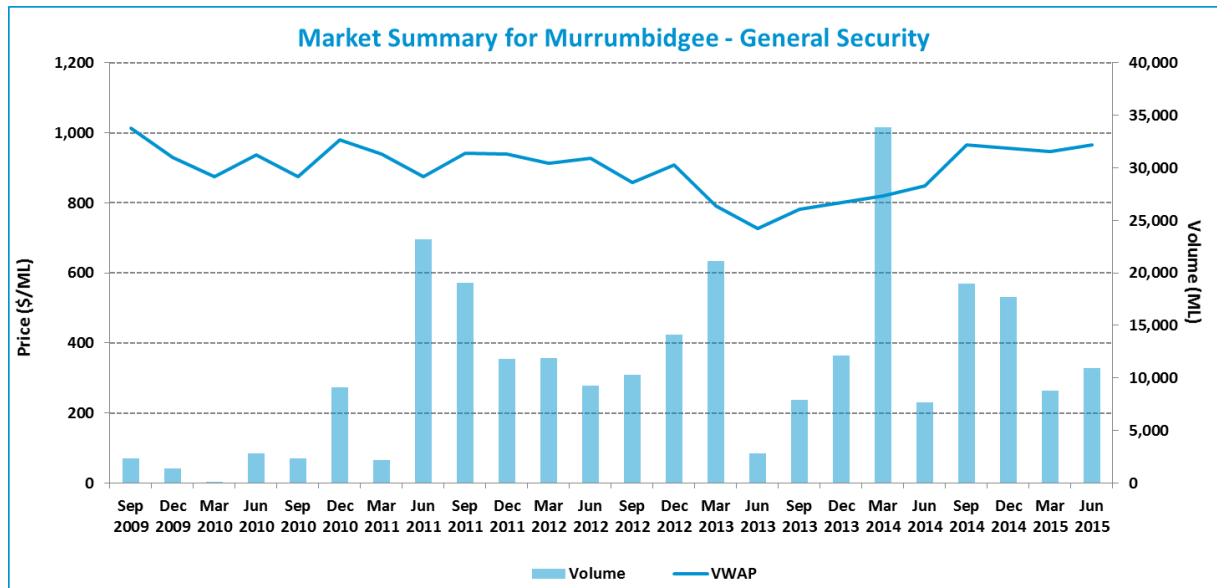
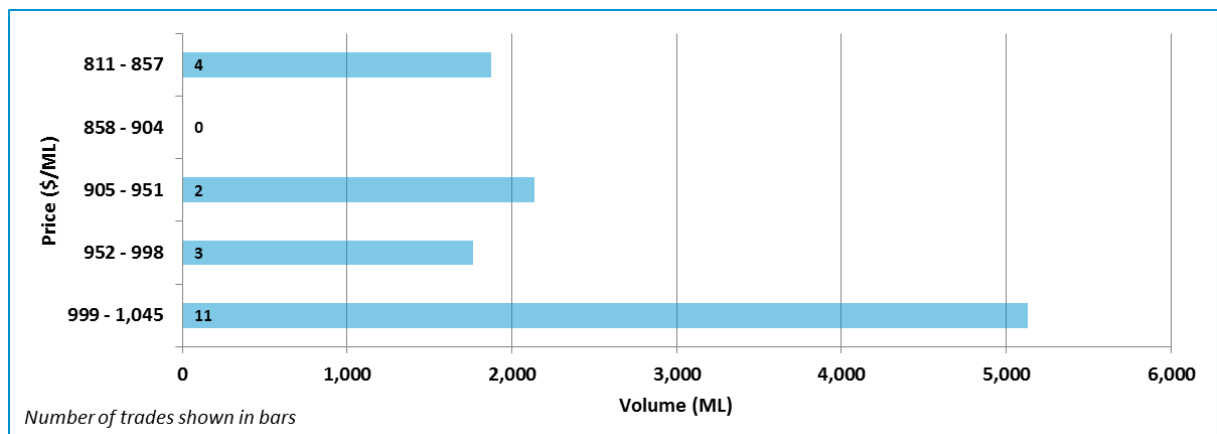


Table 14: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
975	965	959	950	1,030	1,000	967	1,030	10,904	20	1,250 – 1,500

Figure 27: Entitlement market price range by volume



Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,
<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.14 Murrumbidgee: High Security

Figure 28: Entitlement market prices and volumes

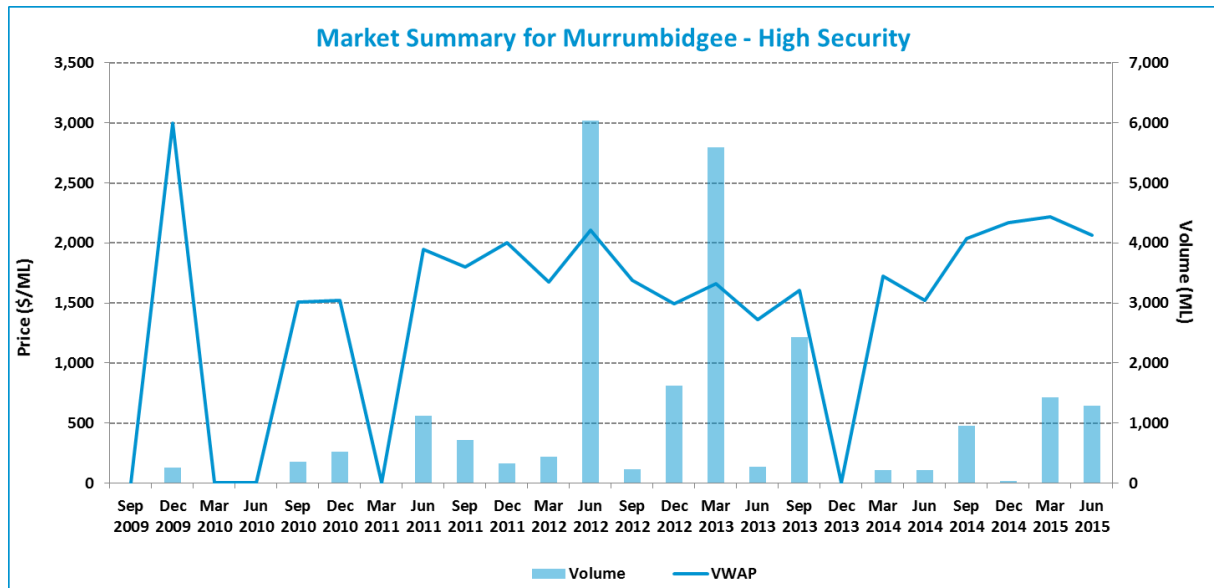
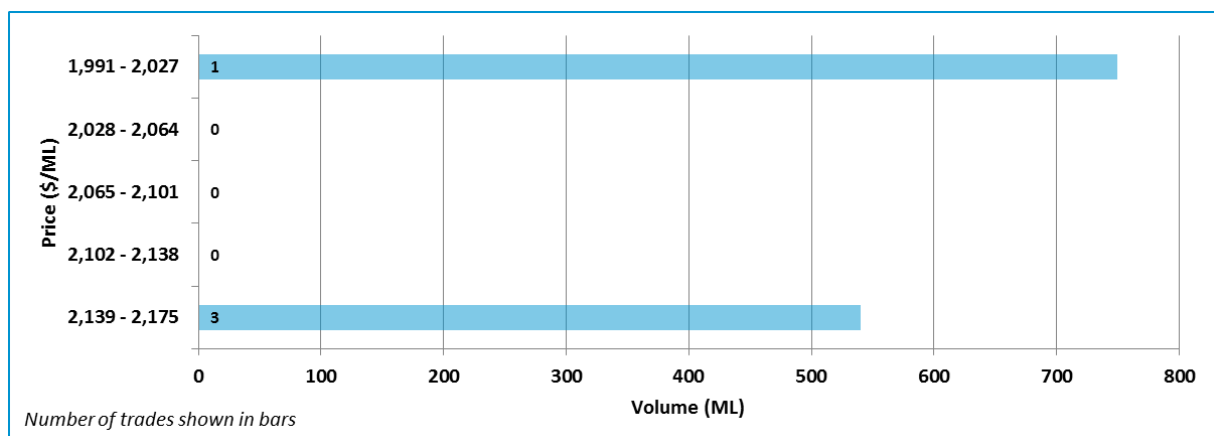


Table 15: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
2,175	2,065	2,118	2,110	2,175	2,163	2,123	2,175	1,290	4	2,800 – 3,300

Figure 29: Entitlement market price range by volume



Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind (www.waterfind.com.au)

2.15 Lower Darling: General Security

Figure 30: Entitlement market prices and volumes

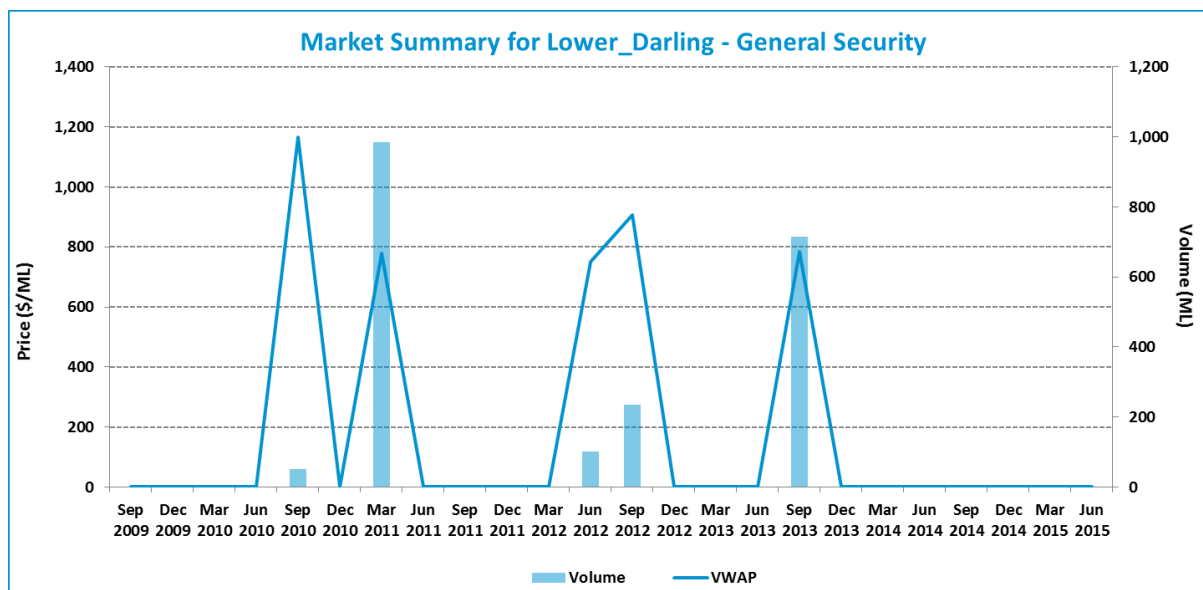


Table 16: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	-	-	-	-	-	-	-	-	-	No listings

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind

(www.waterfind.com.au)

2.16 Lower Darling: High Security

Figure 31: Entitlement market prices and volumes

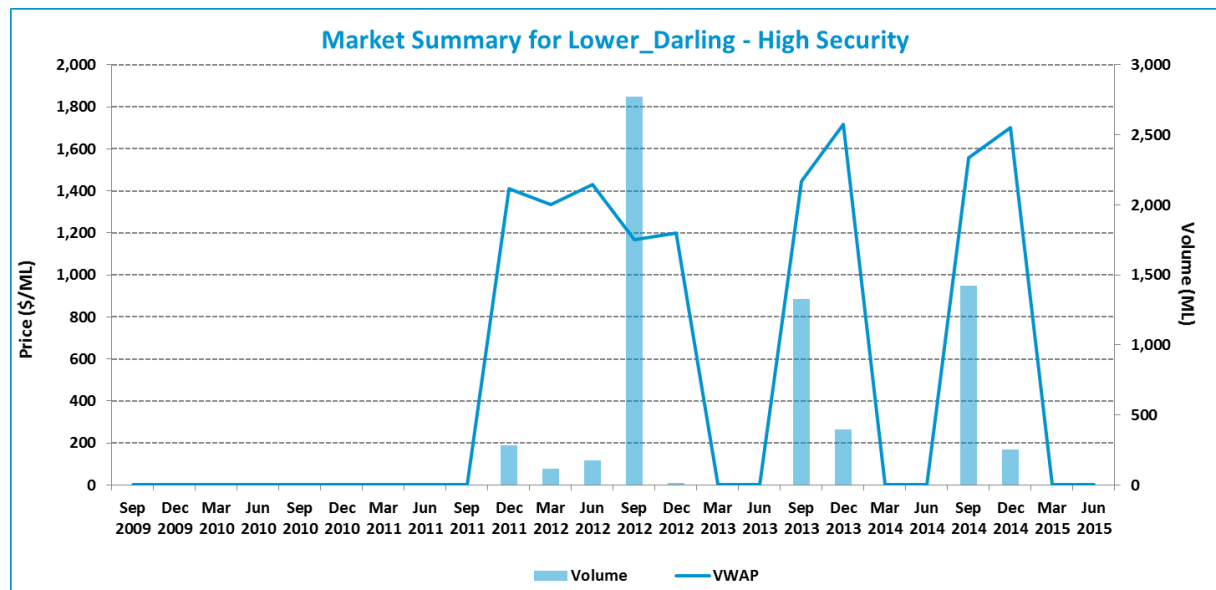


Table 17: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	-	1,580	-	-	-	-	-	-	-	No listings

Data Sources: NSW Water Register

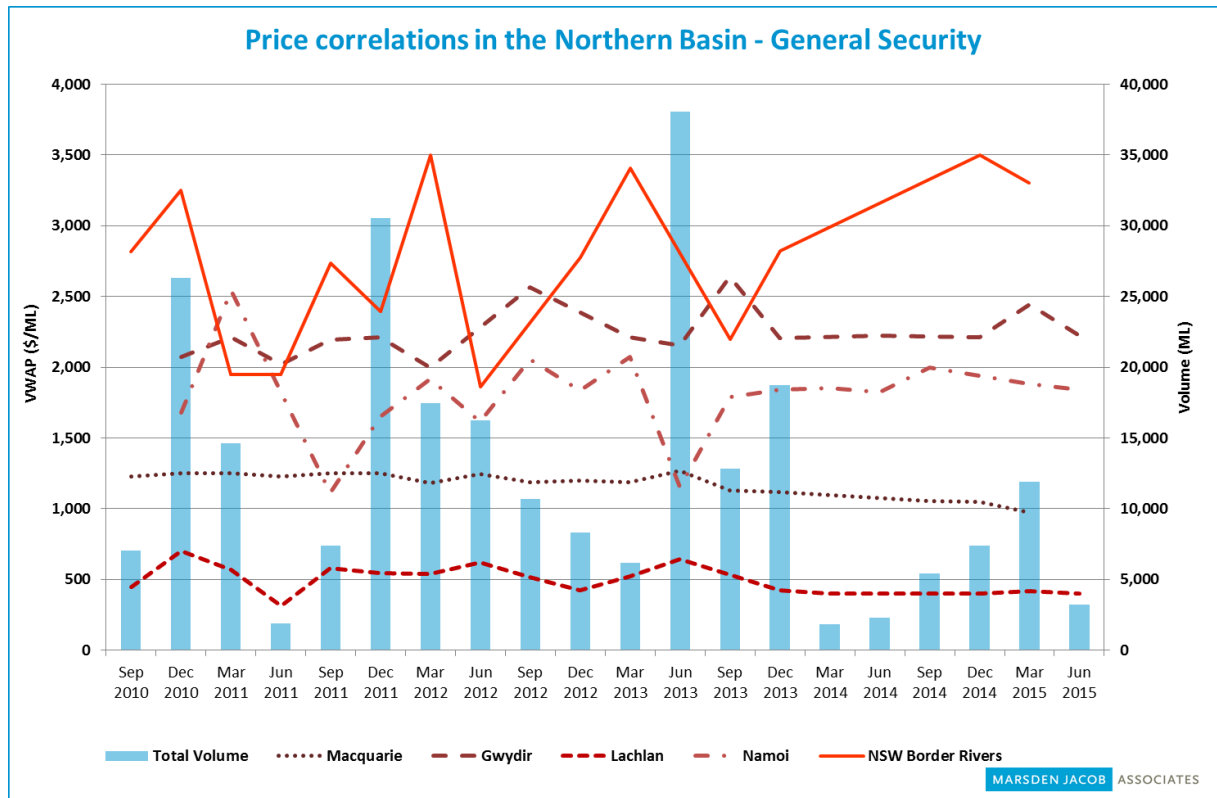
(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), National Water Exchange (www.waterexchange.com.au), Waterfind

(www.waterfind.com.au)

3. Northern Murray-Darling Basin

Figure 32: Price correlation in the Northern Basin: General Security



Source: Marsden Jacob analysis, 2015

Note: Zero values have been interpolated in this chart so it differs from the region and entitlement specific charts.

3.1 Macquarie: General Security

Figure 33: Entitlement market prices and volumes

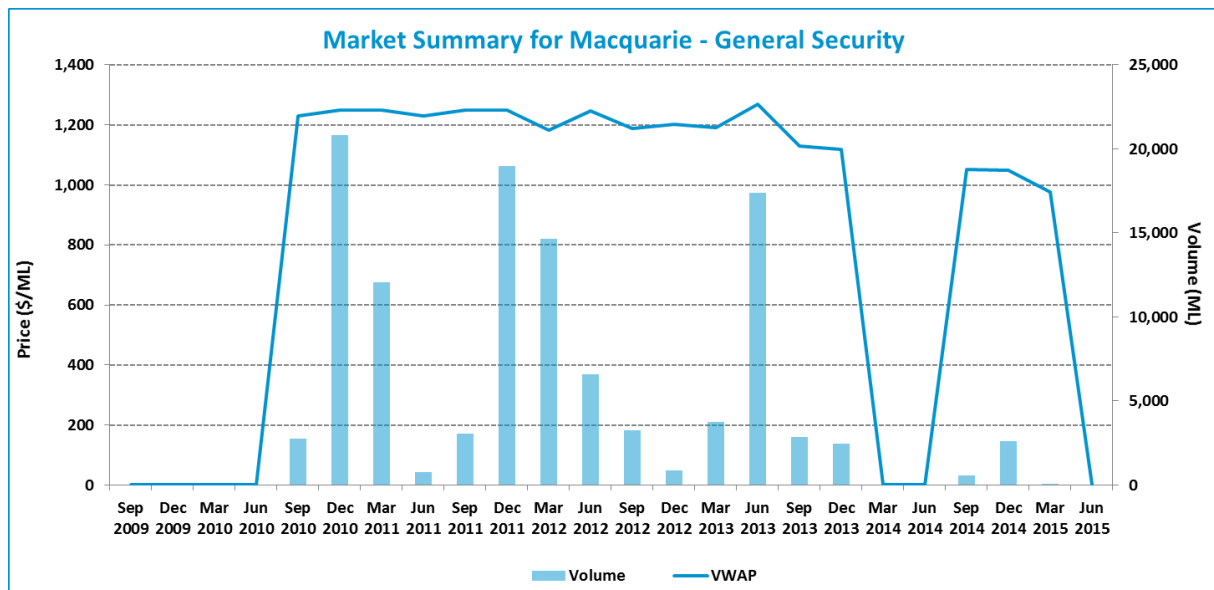


Table 18: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	-	1,049	-	-	-	-	-	-	-	900 – 1,500

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wmg/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.2 Namoi: General Security

Figure 34: Entitlement market prices and volumes

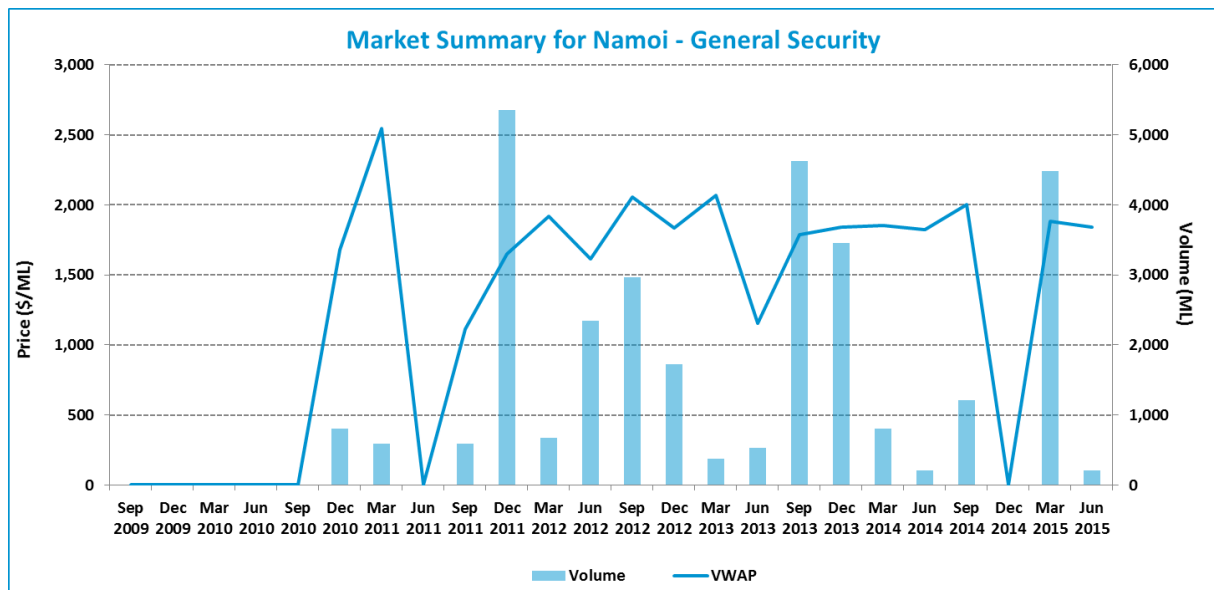
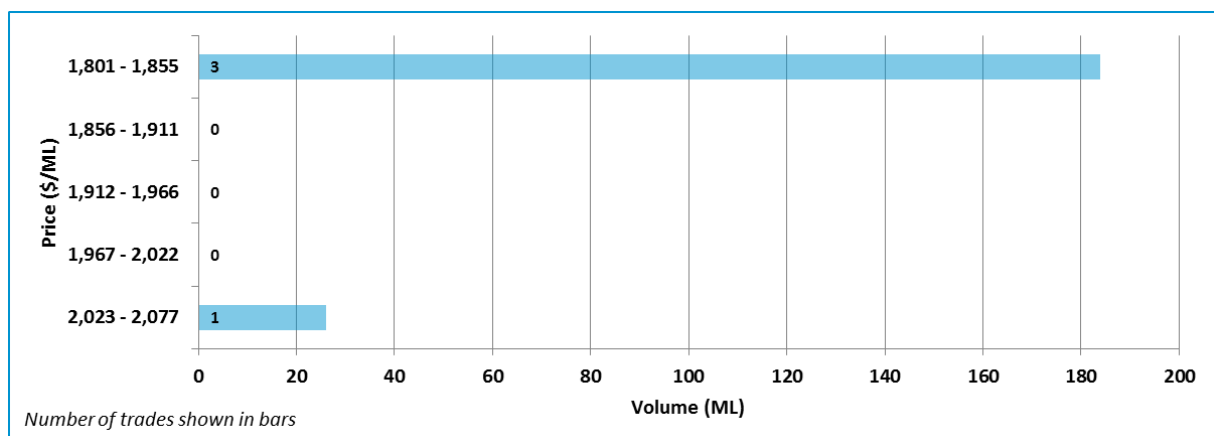


Table 19: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
1,812	1,841	1,906	1,800	1,907	1,825	1,882	1,800	210	4	No listings

Figure 35: Entitlement market price range by volume



Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.3 Gwydir: General Security

Figure 36: Entitlement market prices and volumes

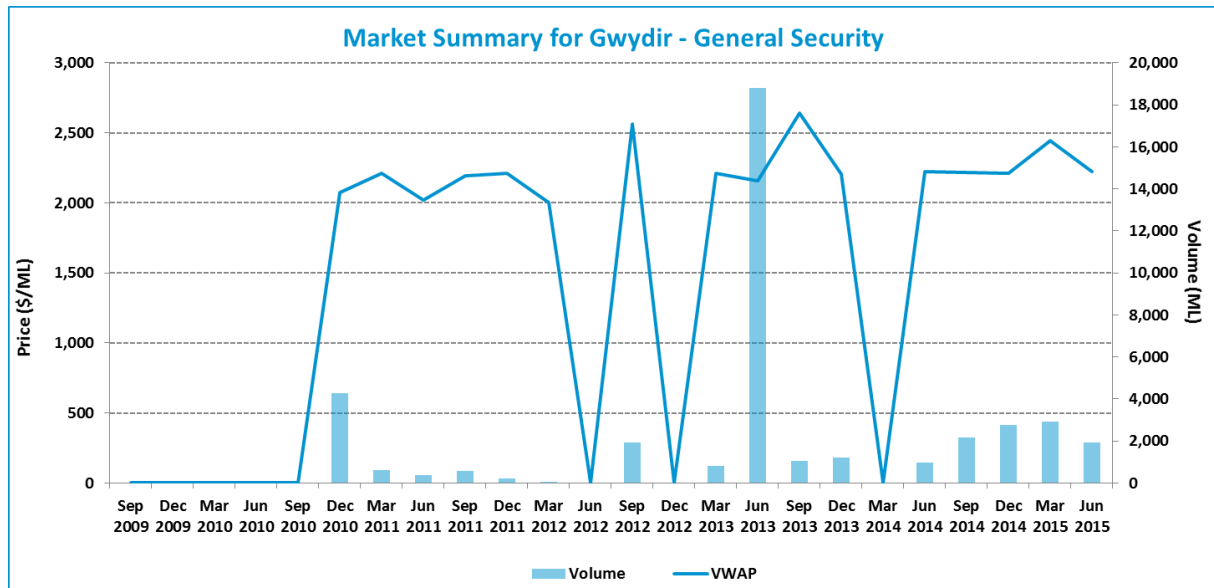


Table 20: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	2,226	2,285	-	-	-	-	-	1,944	1	No listings

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>, <http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.4 NSW Border Rivers: General Security

Figure 37: Entitlement market prices and volumes

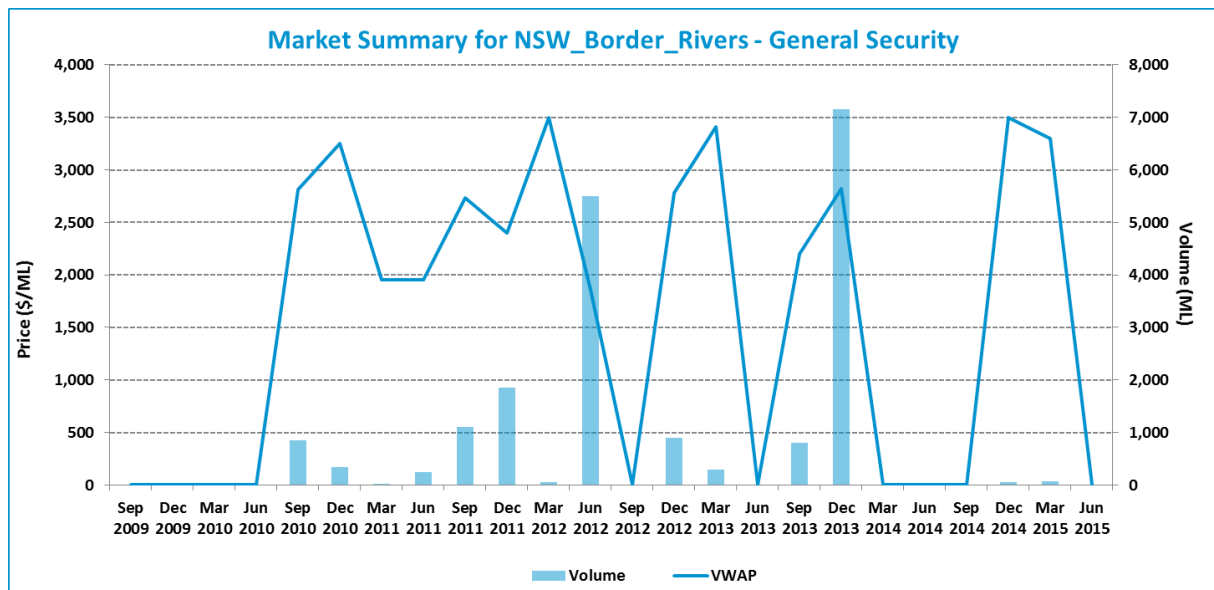


Table 21: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	-	3,398	-	-	-	-	-	-	-	2,300

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>, <http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.5 Barwon Darling: Unregulated

Figure 38: Entitlement market prices and volumes

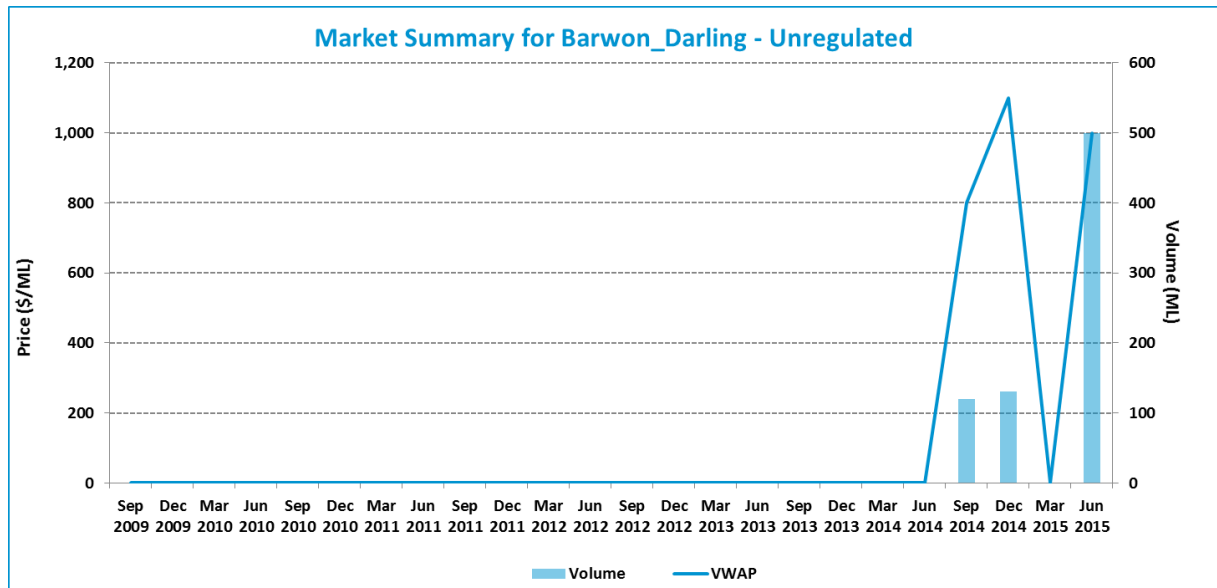


Table 22: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
-	1,000	985	-	-	-	-	-	500	1	No listings

Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wmg/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>,

<http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.6 Lachlan: General Security

Figure 39: Entitlement market prices and volumes

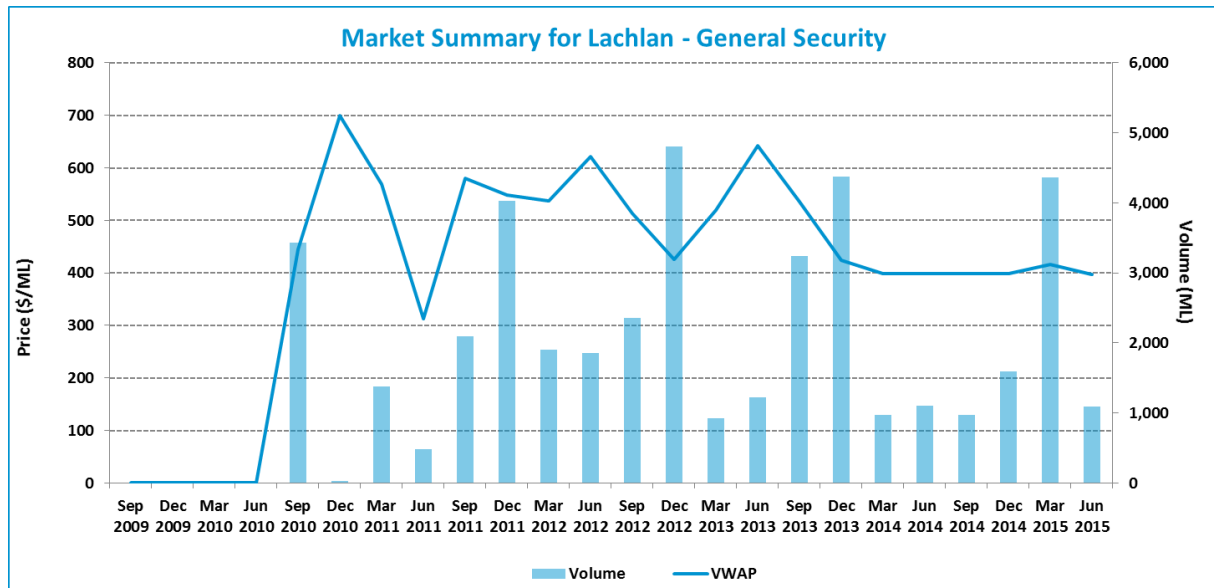
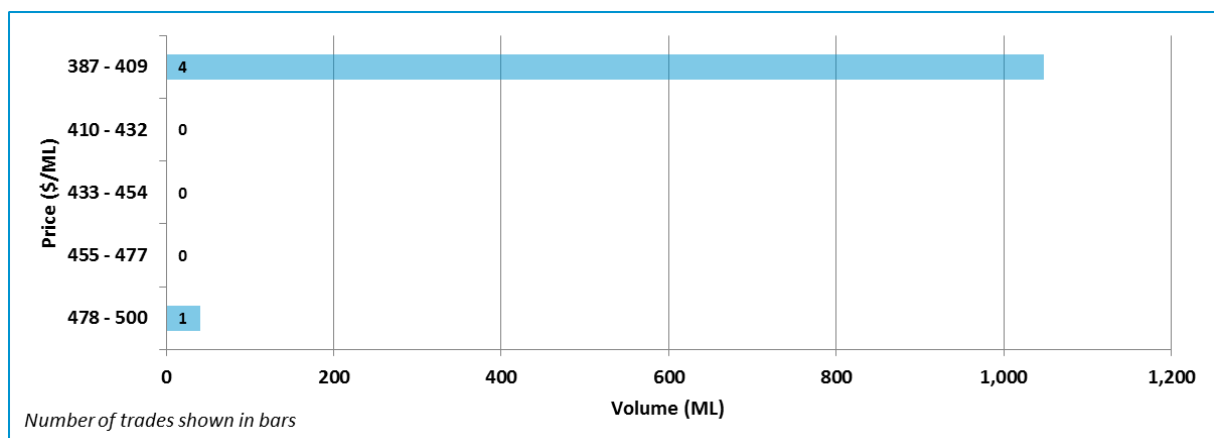


Table 23: Entitlement market prices and volumes

Volume weighted average price (\$/ML)			June 2015 Quarter (in \$/ML)					June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades	Market Spot Price (\$/ML)
Month of June 2015	June 2015 Quarter	YTD	25 th percentile	75 th percentile	Median	Mean	Mode			
500	398	408	400	400	400	417	400	1,088	5	No listings

Figure 40: Entitlement market price range by volume



Data Sources: NSW Water Register

(<http://registers.water.nsw.gov.au/wma/WaterShareIntraWSLocSearch.jsp?selectedRegister=WaterShare>, <http://www.water.nsw.gov.au/water-licensing/registers>), Waterfind (www.waterfind.com.au)

3.7 Queensland

The markets in Queensland are very thin, with only limited trading of entitlements occurring.

Queensland does not maintain a publicly available trade register. Information on entitlement trades is provided on an aggregated monthly basis.

Table 24: Entitlement market prices and volumes

Resource Operation Plan	Water Supply Scheme / Water Management Area	Type of Entitlement	Volume weighted average price (\$/ML)			June 2015 Quarter Volume (ML)	June 2015 Quarter # of trades
			Month of June 2015	June 2015 Quarter	YTD \$/ML		
QLD Border Rivers	Border Rivers/ Macintyre Brook	Supplemented	868	1,217	1,816	423	4
QLD Border Rivers	Border Rivers	Unsupplemented	350	1,719	1,745	1,376	4
Condamine-Balonne	St. George	Supplemented	-	-	2,425	-	-
Condamine-Balonne	Condamine Balonne / Lower Balonne / Upper Condamine	Unsupplemented	1,500	1,500	1,567	636	3
Condamine-Balonne	Upper Condamine	Alluvium Ground-water	-	-	1,800 ^{ab}	-	-
Condamine-Balonne	Lower Balonne	Overland Flow	-	-	-	-	-

Note: a. Data is only available for July 2014-December 2014 on the QLD Government website: https://www.dnrm.qld.gov.au/_data/assets/pdf_file/0004/217156/central-condamine-alluvium-water-licence-relocation-report.pdf. b. Three trades occurred in sub-area 4

Data Sources: Queensland Business and industry portal (<https://www.business.qld.gov.au/industry/water/managing-accessing/markets-trading/market-information>)

Appendix 1: Regions and water sources

Table 25: Water Sources (Southern MDB)

Region	Water Source
SA Murray	River Murray Prescribed Water Course (Class 3a)
VIC Murray above Barmah Choke	6 Vic Murray Dart to Barmah
Vic Murray below Barmah Choke	7 Vic Murray Barmah to SA 6B Lower Broken Creek
Goulburn	1A Greater Goulburn 1B Boort 3 Lower Goulburn
Campaspe	4A Campaspe Eppalock to WWC 4C Lower Campaspe
Loddon	5A Loddon – Coliban Channel to Lower Weir Pool 5B Bullarook
NSW Murray	New South Wales Murray Regulated River Water Source
Murrumbidgee	Murrumbidgee Regulated River Water Source
Lower Darling	Lower Darling Regulated River Water Source

Table 26: Water Sources (Northern MDB)

Region	Entitlement Type
Macquarie	Macquarie and Cudgegong Regulated Rivers Water Source
Namoi	Lower Namoi Regulated River Water Source Upper Namoi Regulated River Water Source
Gwydir	Gwydir Regulated River Water Source
NSW Border Rivers	Border Rivers Regulated River Water Source
Barwon Darling	Barwon Darling Unregulated River Water Source
Lachlan	Lachlan Regulated River Water Source