

Water entitlement market price report – May 2019

Murray-Darling Basin

A Final Report prepared for the Department of Agriculture Wednesday 26 June 2019

AITHER

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Introduction

This water entitlement market price report has been prepared by Aither on behalf of the Australian Government Department of Agriculture.

This report includes details regarding Murray-Darling Basin water entitlement prices and trade activity. The entitlement types included within this report are detailed below:

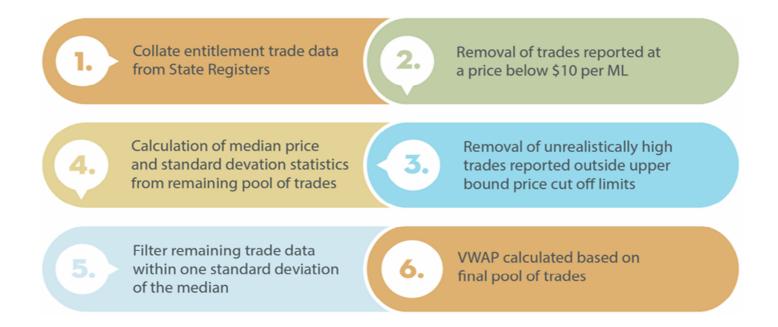
Southern Murray-Darling Basin Entitlements

SA Murray 3A, Vic 6 Murray HRWS, Vic 6 Murray LRWS, Vic 7 Murray HRWS, Vic 7 Murray LRWS, Vic 6B Lower Broken Creek LRWS, Vic 1A Greater Goulburn HRWS, Vic 1A Greater Goulburn LRWS, Vic 1B Boort LRWS, Vic 3 Lower Goulburn HRWS, Vic 3 Lower Goulburn LRWS, Vic 4C Lower Campaspe HRWS, Vic 4A Campaspe (Eppalock to WWC) HRWS, Vic 4A Campaspe (Eppalock to WWC) LRWS, Vic 5A Loddon HRWS, Vic 5B Bullarook HRWS, Vic 5B Bullarook LRWS, NSW Murray HS, NSW Murray GS, NSW Murray Irrigation Limited GS, NSW Murrumbidgee HS, NSW Murrumbidgee GS, NSW Lower Darling HS, NSW Lower Darling GS.

Northern Murray-Darling Basin Entitlement types

NSW Macquarie GS, NSW Lower Namoi GS, NSW Upper Namoi GS, NSW Gwydir GS, NSW Border Rivers GS A, NSW Border Rivers GS B, NSW Barwon-Darling Unregulated A, NSW Barwon-Darling Unregulated B, NSW Barwon-Darling Unregulated C, NSW Lachlan GS, QLD Condamine-Balonne (St George) Supplemented, Condamine-Balonne QLD Condamine-Balonne (Lower Balonne) Unsupplemented, QLD Condamine-Balonne (Upper Condamine) Unsupplemented, QLD Central Condamine Alluvium Groundwater (1, 2, 3 and 4), QLD Upper Condamine Alluvium Groundwater (Dalrymple Creek) Groundwater, QLD Upper Condamine Alluvium Groundwater (Oakey Creek) Groundwater, QLD Condamine-Balone Lower Balonne Overland flow, QLD Border Rivers Supplemented (Macintyre Brook), QLD Border Rivers Unsupplemented.

A brief summary has been provided below:



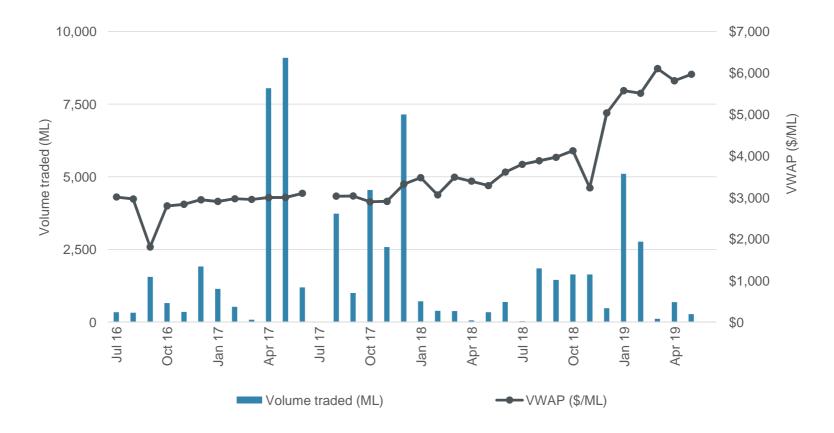
SA Murray

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
SA Murray 3A	\$5,967	\$6,300	12	277	23	\$5,800 - \$6,000

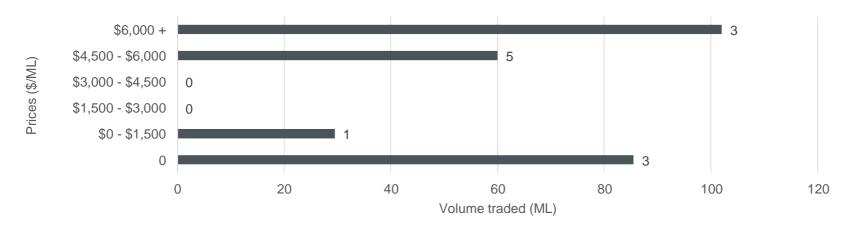
Source: Aither, 2019. Based on the SA Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the SA Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the SA Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

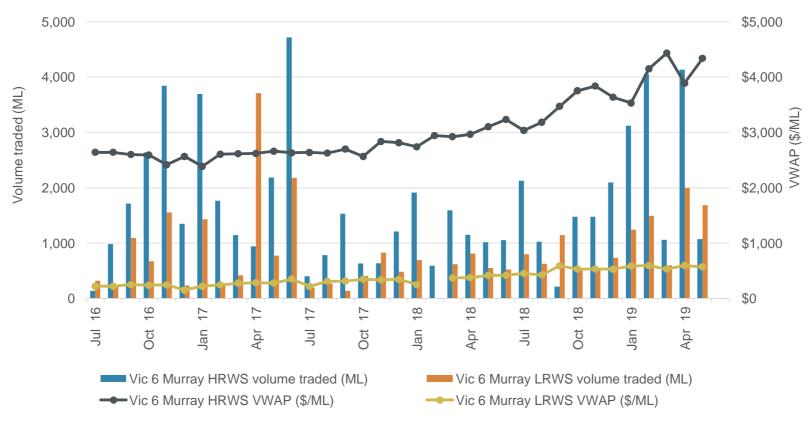
Vic 6 Murray

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 6 Murray HRWS	\$4,339	\$4,500	16	1,070	67	\$4,500 - \$5,000
Vic 6 Murray LRWS	\$569	\$580	14	1,683	120	\$500 - \$600

Source: Aither, 2019 Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019

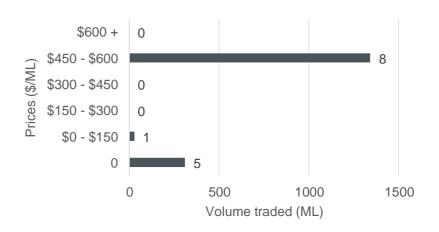


Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 6 Murray HRWS



Vic 6 Murray LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

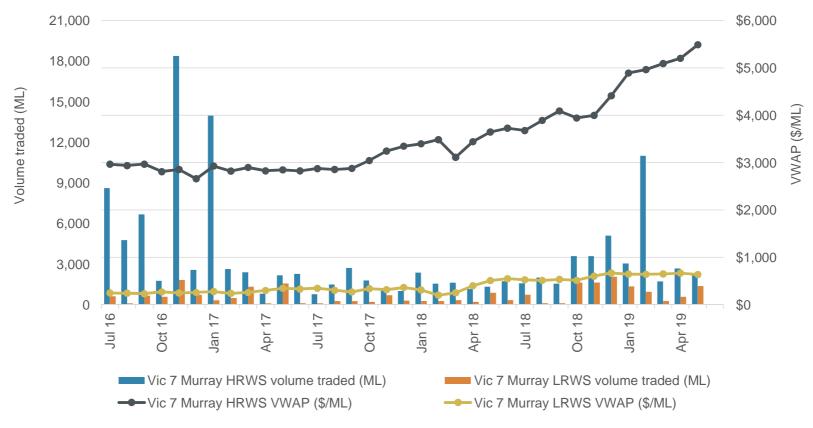
Vic 7 Murray

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 7 Murray HRWS	\$5,489	\$5,995	59	2,323	39	\$5,400 - \$5,650
Vic 7 Murray LRWS	\$635	\$660	20	1,362	68	\$500 - \$650

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019

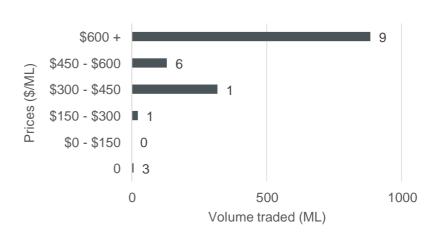


Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 7 Murray HRWS



Vic 7 Murray LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

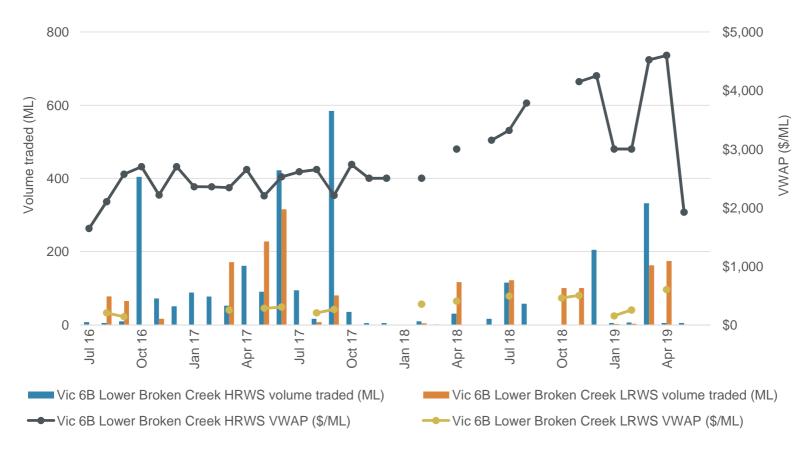
Vic 6B Lower Broken Creek

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 6B Lower Broken Creek HRWS	\$1,920	\$2,100	2	5	3	-
Vic 6B Lower Broken Creek LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Registers.

Market price range, May 2019 Vic 6B Lower Broken Creek HRWS

Vic 6B Lower Broken Creek LRWS



Source: Aither, 2019. Based on the VIC Water Registers.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

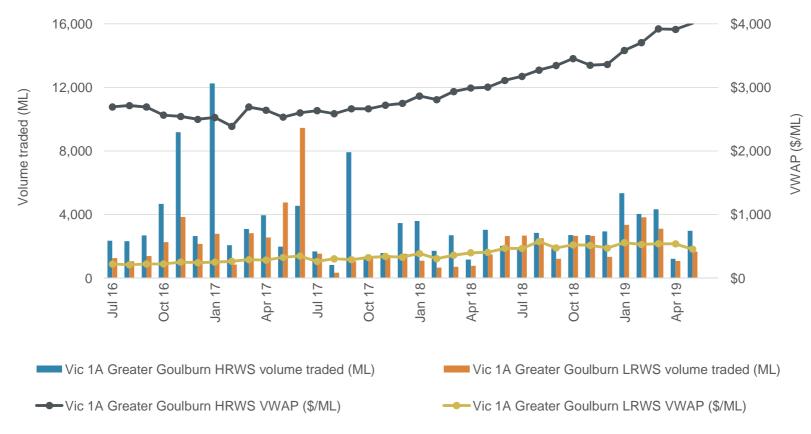
Vic 1A Greater Goulburn

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 1A Greater Goulburn HRWS	\$4,009	\$5,250	59	2,978	50	\$3,800 - \$4,200
Vic 1A Greater Goulburn LRWS	\$455	\$1,100	26	1,668	64	\$380 - \$420

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 1A Greater Goulburn HRWS



Vic 1A Greater Goulburn LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

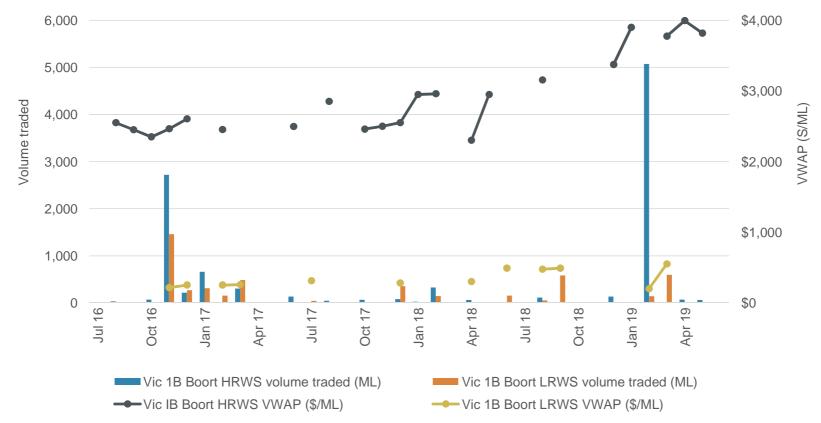
Vic 1B Boort

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 1B Boort HRWS	\$3,818	\$4,243	4	61	15	-
Vic 1B Boort LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

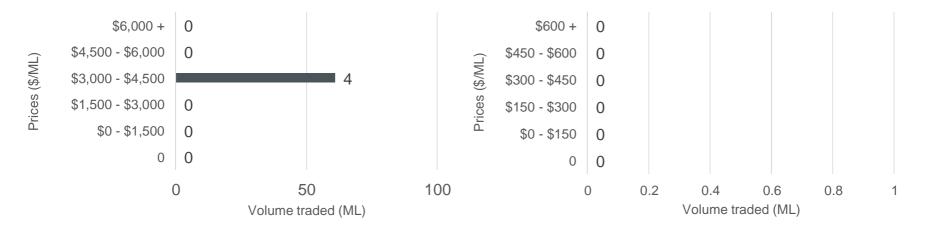
Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 1B Boort HRWS

Vic 1B Boort LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

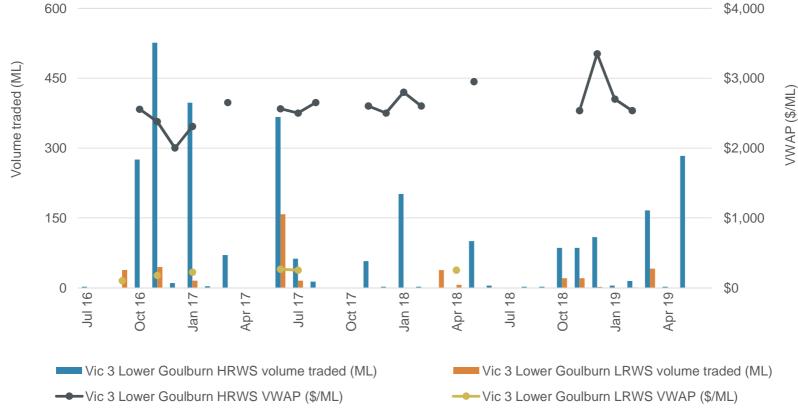
Vic 3 Lower Goulburn

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 3 Lower Goulburn HRWS	\$4,094	\$4,500	4	283	71	-
Vic 3 Lower Goulburn LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 3 Lower Goulburn HRWS

Vic 3 Lower Goulburn LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

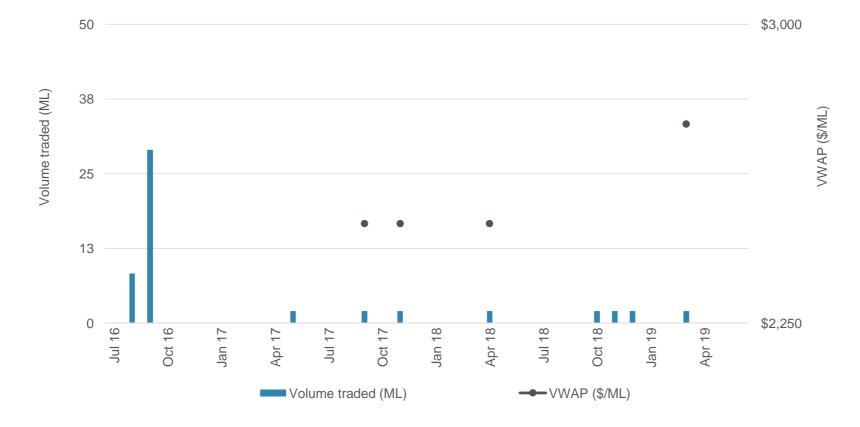
Vic 4C Lower Campaspe

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 4C Lower Campaspe HRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

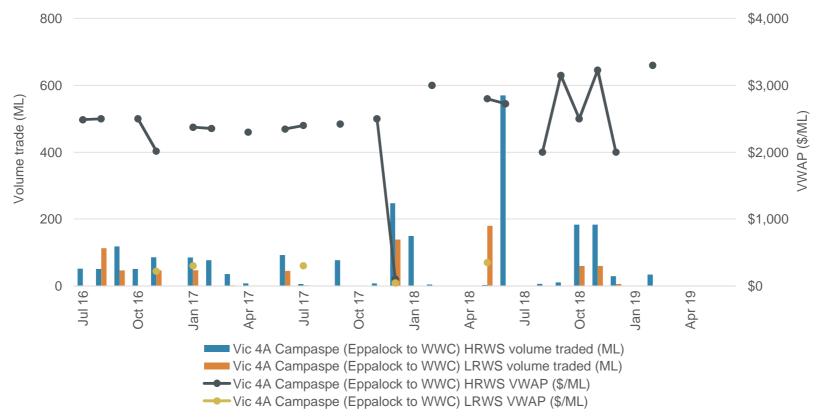
Vic 4A Campaspe (Eppalock to WWC)

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 4A Campaspe (Eppalock to WWC) HRWS	-	-	-	-	-	-
Vic 4A Campaspe (Eppalock to WWC) LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 4A Campaspe (Eppalock to WWC) HRWS

Vic 4A Campaspe (Eppalock to WWC) LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

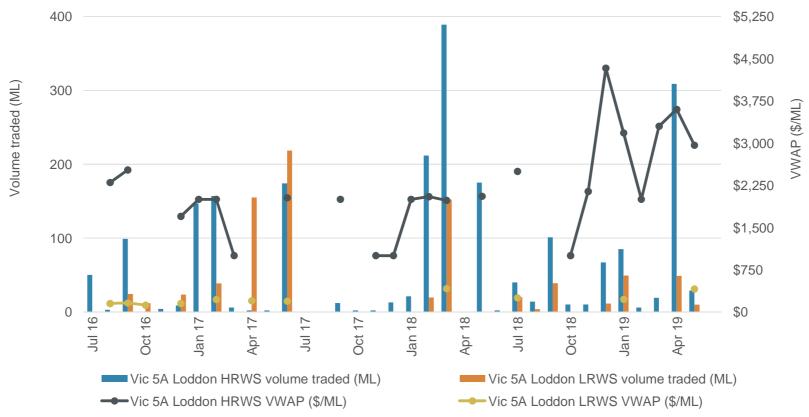
Vic 5A Loddon

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 5A Loddon HRWS	\$2,963	\$3,000	3	29	10	-
Vic 5A Loddon LRWS	\$408	\$408	1	10	10	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 5A Loddon HRWS

Vic 5A Loddon LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

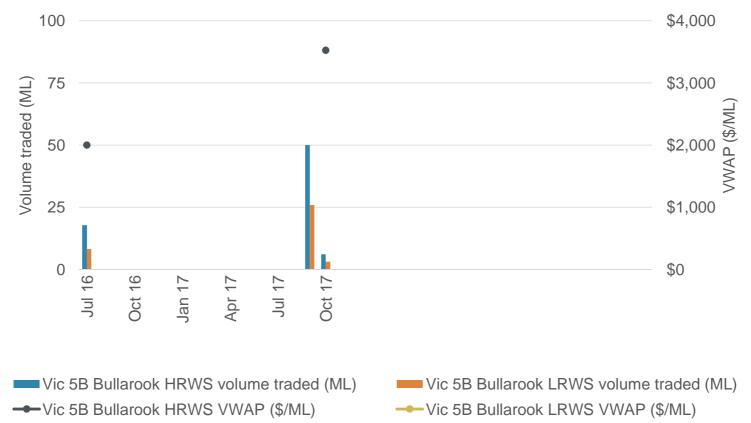
Vic 5B Bullarook

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
Vic 5B Bullarook HRWS	-	-	-	-	-	-
Vic 5B Bullarook LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

Market price range, May 2019 Vic 5B Bullarook HRWS

Vic 5B Bullarook LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

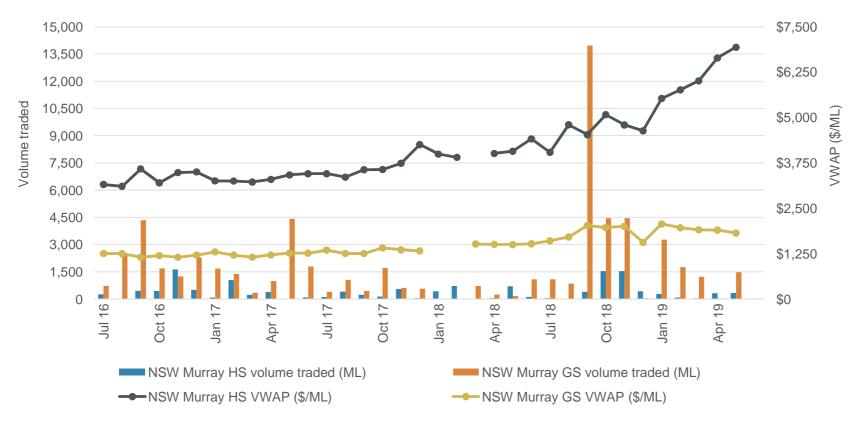
NSW Murray

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Murray HS	\$6,939	\$7,055	7	325	46	\$6,450 - \$6,750
NSW Murray GS	\$1,819	\$1,825	6	1,471	245	\$1,500 - \$1,750

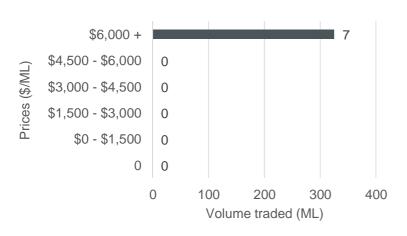
Source: Aither, 2019. Based on the NSW Water Register, and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019

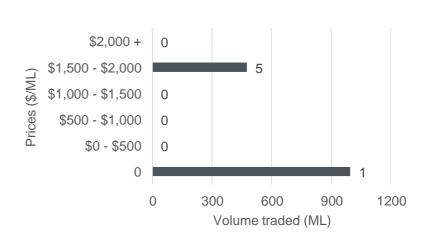


Source: Aither, 2019. Based on the NSW Water Registers.

Market price range, May 2019 NSW Murray HS



NSW Murray GS



Source: Aither, 2019. Based on the NSW Water Registers.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

NSW Murray Irrigation Limited

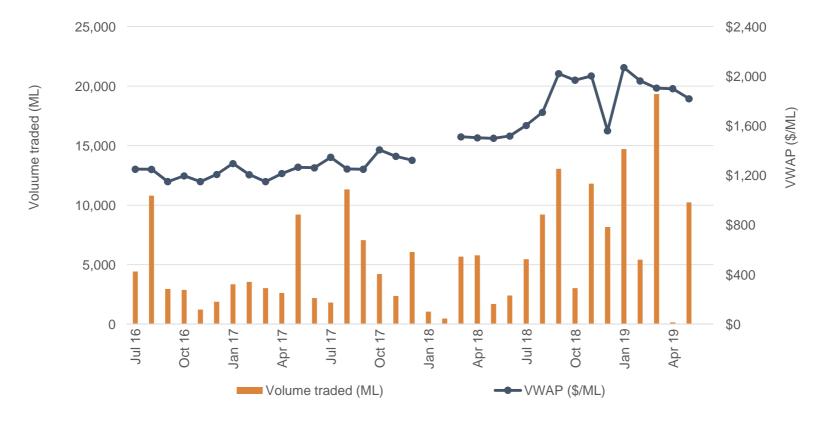
Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Murray Irrigation Limited GS	\$1,819	\$1,825	26	10,244	394	\$1,500 - \$1,750

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Note: As trade prices within NSW Murray Irrigation GS are not reported Aither has presented NSW Murray GS on river prices instead given the common characteristics that these entitlements share.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

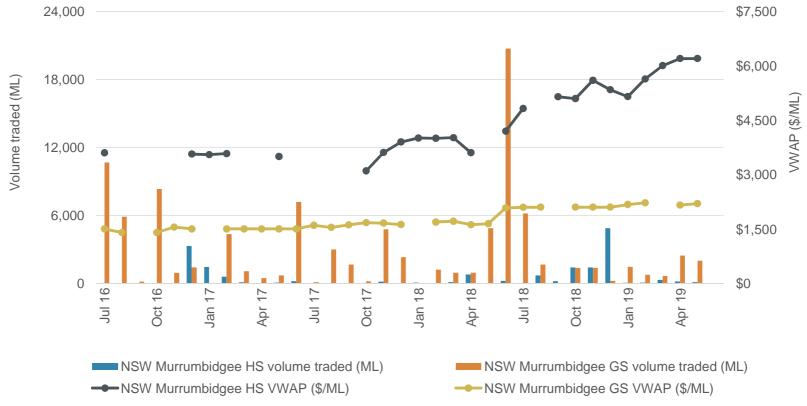
NSW Murrumbidgee

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) size (ML) May May 2019 2019		Broker spread (Bid/Ask) \$/ML May 2019
NSW Murrumbidgee HS	\$6,200	\$6,200	1	100	100	\$6,800 - \$7,000
NSW Murrumbidgee GS	\$2,200	\$2,200	1	2,000	2,000	\$1,850 - \$2,000

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019

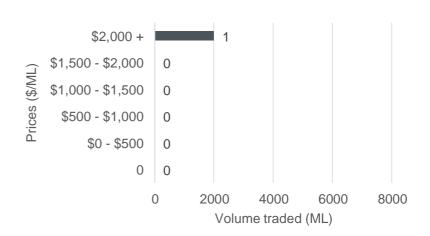


Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019 NSW Murrumbidgee HS



NSW Murrumbidgee GS



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

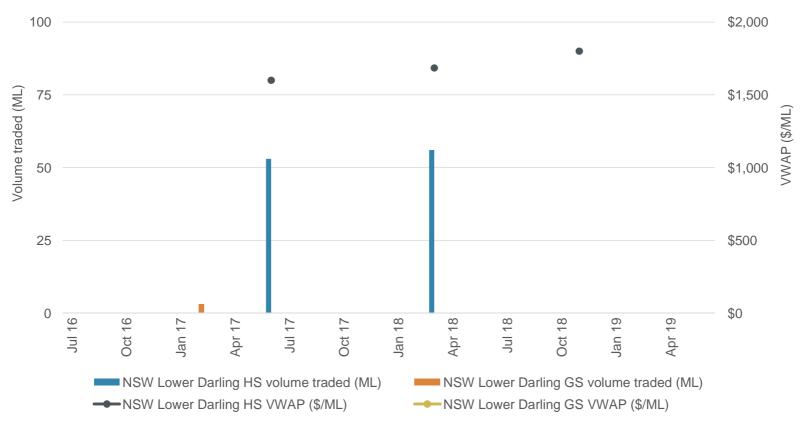
NSW Lower Darling

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Lower Darling HS	-	-	-	-	-	-
NSW Lower Darling GS	-	-	-	-	-	-

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019 NSW Lower Darling HS

NSW Lower Darling GS



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

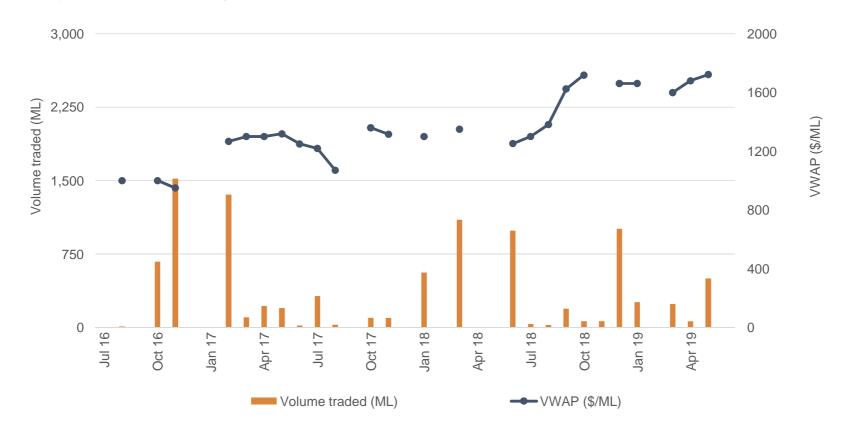
NSW Macquarie

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Macquarie GS	\$1,722	\$1,722	1	500	500	-

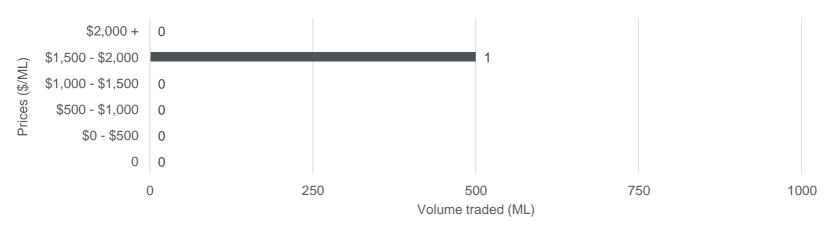
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

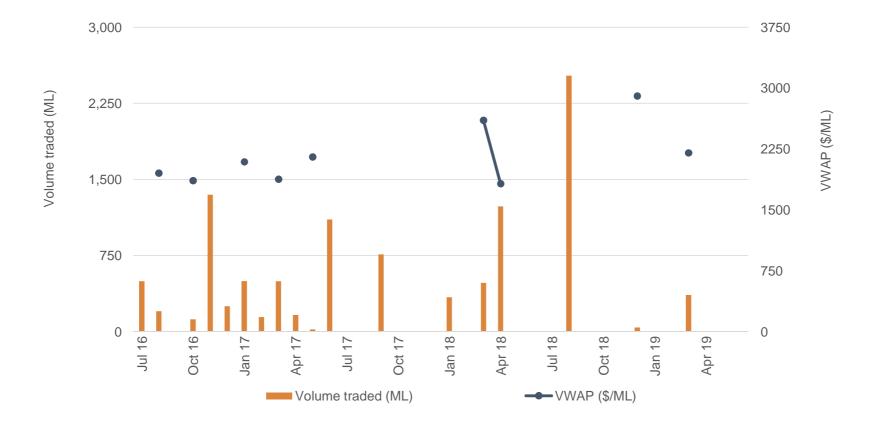
NSW Lower Namoi

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Lower Namoi GS	-	-	-	-	-	-

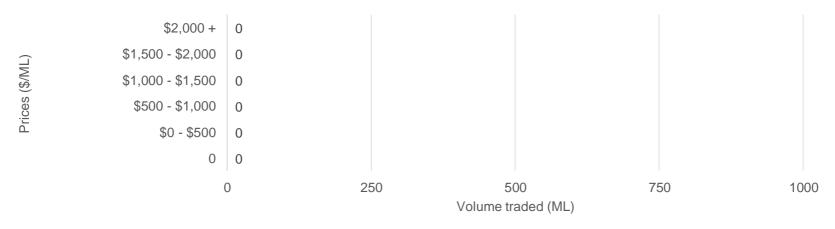
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Registers.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

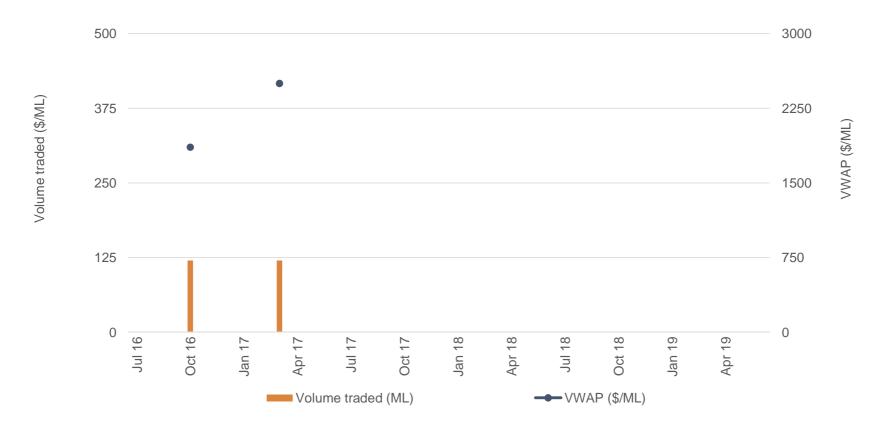
NSW Upper Namoi

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Upper Namoi GS	-	-	-	-	-	-

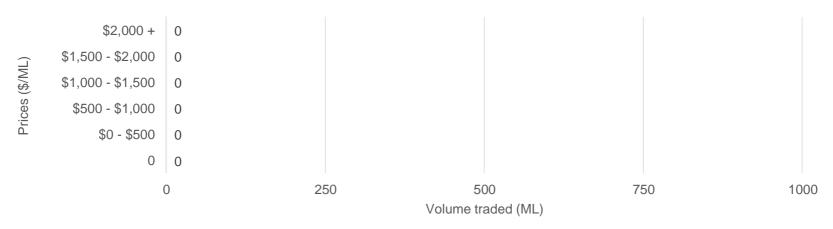
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

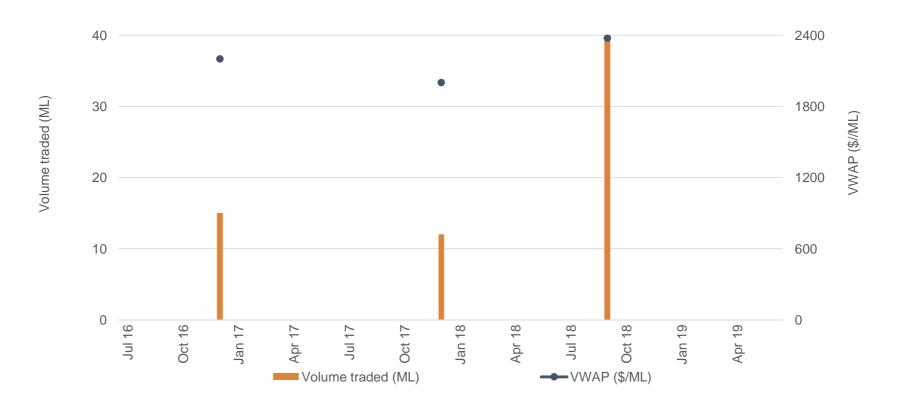
NSW Gwydir

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Gwydir GS	-	-	-	-	-	-

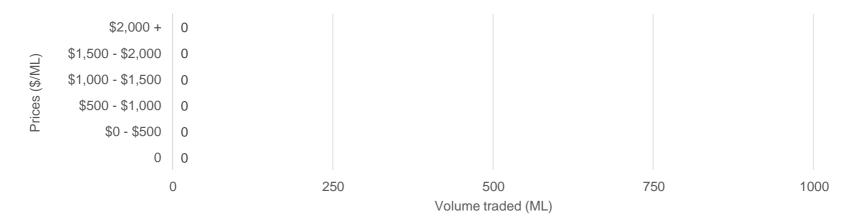
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

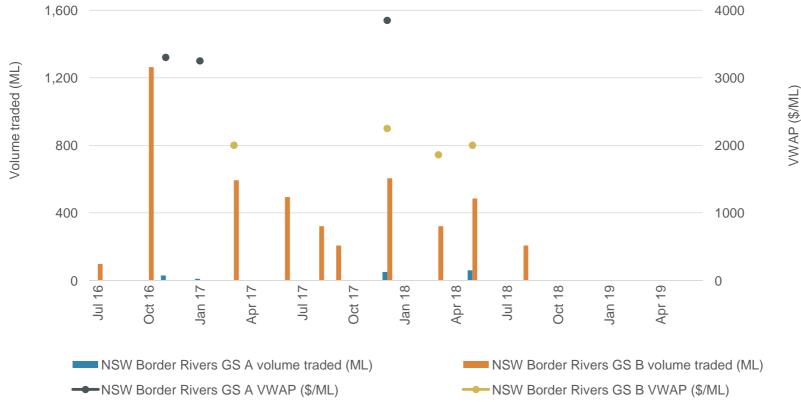
NSW Border Rivers

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Border Rivers GS A	-	-	-	-	-	-
NSW Border Rivers GS B	-	-	-	-	-	-

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019 NSW Border Rivers GS A



NSW Border Rivers GS B



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

NSW Barwon-Darling Unregulated

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Barwon-Darling	_	_	_	_	_	_
Unregulated A	_	_	_	_	-	-
NSW Barwon-Darling						
Unregulated B	-	-	-	-	-	-
NSW Barwon-Darling						
Unregulated C	-	-	-	-	-	-

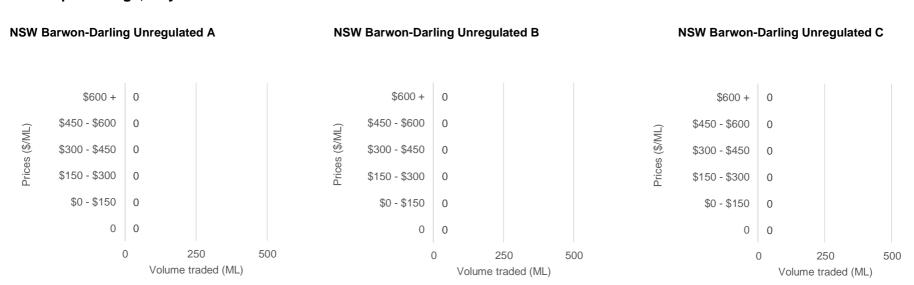
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

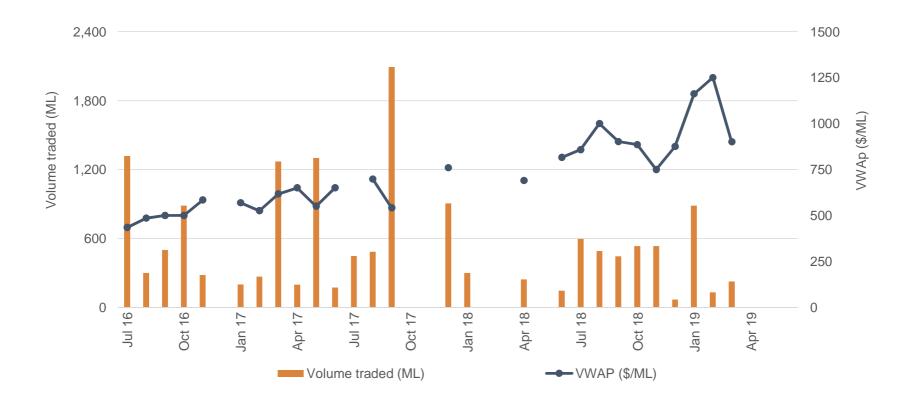
NSW Lachlan

Entitlement market overview, May 2019

Entitlement type	VWAP (\$/ML) May 2019	Max Price (\$/ML) May 2019	Number of trades (unfiltered) May 2019	Volume of trade (unfiltered) (ML) May 2019	Average parcel size (ML) May 2019	Broker spread (Bid/Ask) \$/ML May 2019
NSW Lachlan GS	-	-	-	-	-	-

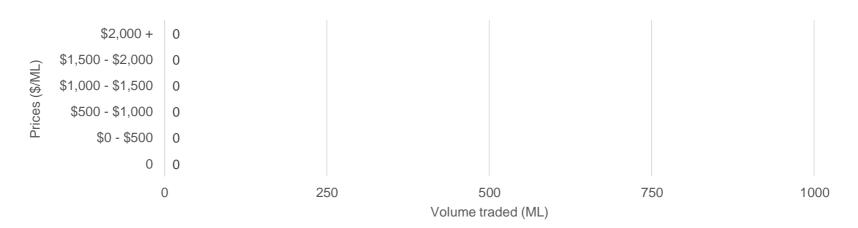
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

Market price range, May 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

Queensland Entitlements

Entitlement Market Overview, April 2019

Note: No recent market data available at the time of writing.

Entitlement	April 2019 VWAP (\$/ML)	April 2019 Number of Trades	April 2019 Volume of trade (ML)	April 2019 Average Parcel Size (ML)
QLD Condamine-Balonne Supplemented	-	-	-	-
QLD Condamine-Balonne Overland flow	-	-	-	-
QLD Condamine-Balonne Unsupplemented	-	-	-	-
QLD Condamine-Balonne Groundwater Unsupplemented	-	-	-	-
QLD Border Rivers Supplemented	-	-	-	-
QLD Border Rivers Unsupplemented	-	-	-	-

Notes: Disaggregated entitlement trade data in QLD is not publicly available therefore Aither has been unable to provide data in the same format as SA, Vic and NSW entitlement types. No recent trade data was available at the time of publication. In instances where there has been more than one trade for a given month it has not been possible to determine a maximum price due to the nature of the data made available.

Note: All Queensland entitlements are denoted by "Water Plan (Water Management Area/Water Supply Scheme) entitlement type"

Source: Aither, 2019. Based on the QLD Water Register.



Notes

VWAPs are based on estimates of commercial trades as outlined in Aither's methodology excluding \$0 values. Aither's methodology is available on request.

Only trades reported in May 2019 are included in the monthly Volume Weighted Average Price (VWAP) and Maximum Monthly Price (\$/ML) reported in the entitlement summary tables.

The 'Number of Transfers and 'Volume of Transfers' (ML) are calculated based on all trades from state water market registers, including \$0 value trades. This is in line with Aither's calculation methodology which is availabile on request.

The average parcel size reported in the entitlement summary tables has been determined by taking the total monthly volume of transfers and dividing by the total number of transfers of the given entitlement during the month in question.

As trade prices for NSW Murray GS within Murray Irrigation are not reported, Aither has used NSW Murray GS on river prices as a substitute given the common characteristics that these entitlements share.

Aither's analysis was conducted on 5 June 2019 and only includes trade data available as of this date.

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