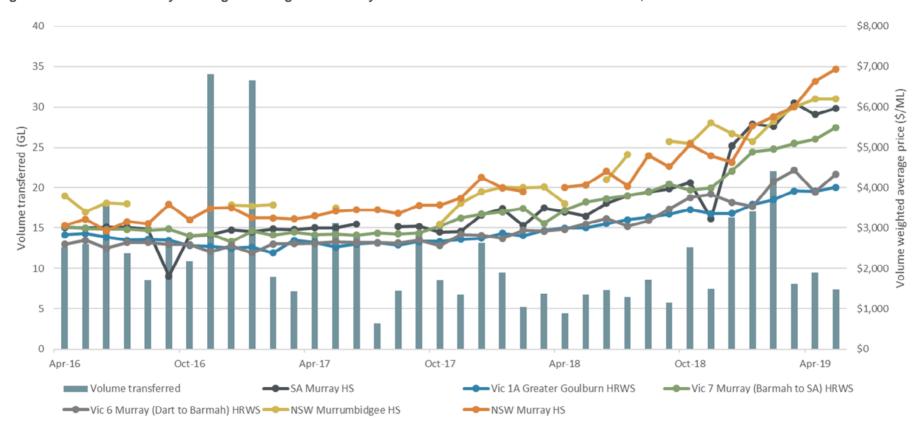
Water Entitlement Market Prices – Summary Report, May 2019

SOUTHERN MURRAY-DARLING BASIN

Figure 1 Southern Murray-Darling Basin higher reliability entitlement VWAPs and transfer volumes, 2016-17 to 2018-19



Source: Aither, 2019

Note: Volume transferred includes all register transactions for zones: NSW Murray HS, NSW Murrumbidgee HS, SA Murray HS, Vic 1A Greater Goulburn HRWS, Vic 6 Murray (Dart to Barmah) HRWS and Vic 7 Murray (Barmah to SA) HRWS.

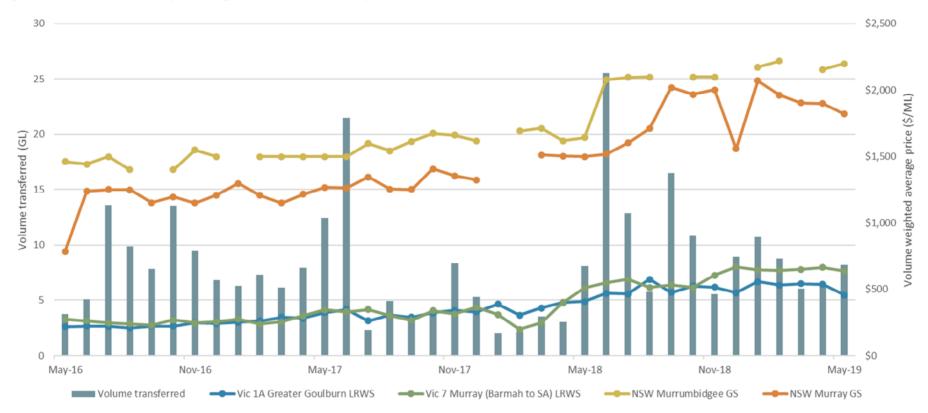


Figure 2 Southern Murray-Darling Basin lower reliability entitlement VWAPs and transfer volumes, 2016-17 to 2018-19

Source: Aither, 2019.

Note: Volume transferred includes all register transactions for NSW Murray GS, NSW Murrumbidgee GS, Vic 1A Greater Goulburn LRWS, Vic 6 Murray (Dart to Barmah) LRWS and Vic 7 Murray (Barmah to SA) LRWS.

Table 1 Southern Murray–Darling Basin trade statistics

Entitlement market	May 2019 VWAP (\$/ML) ^{1,2}	May 2019 Maximum Price (\$/ML) ²	May 2019 Number of Transfers ³	May 2019 Volume of Transfers (ML) ³	May 2019 Average Parcel Size (ML) ⁴	Broker spread (Buy/Sell) (\$/ML)
SA Murray 3A	\$5,967	\$6,300	12	277	23	\$5,800 - \$6,000
Vic Murray above the Choke HRWS ⁶	\$4,339	\$4,500	16	1,070	67	\$4,500 - \$5,000
Vic Murray above the Choke LRWS ⁶	\$569	\$580	14	1,683	120	\$500 - \$600
Vic Murray below the Choke HRWS ⁷	\$5,475	\$5,995	61	2,328	38	\$5,400 - \$5,650
Vic Murray below the Choke LRWS ⁷	\$635	\$660	20	1,362	68	\$500 - \$650
Vic Greater Goulburn HRWS ⁸	\$4,015	\$5,250	67	3,322	50	\$3,800 - \$4,000
Vic Greater Goulburn LRWS ⁸	\$455	\$1,100	26	1,668	64	\$380 - \$420
Vic Campaspe HRWS ⁹	-	-	-	-	-	-
Vic Campaspe LRWS ⁹	-	-	-	-	-	-
Vic Loddon HRWS ¹⁰	\$2,963	\$3,000	3	29	10	-
Vic Loddon LRWS ¹⁰	\$408	\$408	1	10	10	-
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
NSW Murray Irrigation Limited GS ⁵	\$1,819	\$1,825	26	10,244	394	-
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
NSW Lower Darling HS	-	-	-	-	-	-
NSW Lower Darling GS	-	-	-	-	-	-

Note: VWAPs are based on estimates of commercial trades as outlined in Aither's methodology excluding \$0 value transfers (see notes).

Note: 'Number of Transfers' and 'Volume of Transfers (ML)' incorporate all transfers in the Aither Water Markets Database including \$0 value transfers.

NORTHERN MURRAY-DARLING BASIN

Table 2 Northern Murray-Darling Basin trade statistics

May 2019 VWAP (\$/ML) ^{1,2, 14}	May 2019 Maximum Price (\$/ML) ^{2, 14}	May 2019 Number of Transfers ^{3, 14}	May 2019 Volume of Transfers (ML) ^{3, 14}	May 2019 Average Parcel Size (ML) ^{4, 14}	Broker spread (Buy/Sell) (\$/ML)
\$1,722	\$1,722	1	500	500	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
	(\$/ML) ^{1,2, 14} \$1,722	\$1,722 \$1,722	(\$/ML) ^{1,2,14} Price (\$/ML) ^{2,14} Transfers ^{3,14} \$1,722 \$1,722 1	(\$/ML)^{1,2,14} Price (\$/ML)^{2,14} Transfers (ML)^{3,14} \$1,722 \$1,722 1 500 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	(\$/ML) ^{1,2,14} Price (\$/ML) ^{2,14} Transfers ^{3,14} Transfers (ML) ^{3,14} Parcel Size (ML) ^{4,14} \$1,722 \$1,722 1 500 500 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

Note: VWAPs are based on estimates of commercial trades as outlined in Aither's methodology excluding \$0 value transfers (see notes).

Note: 'Number of Transfers' and 'Volume of Transfers (ML)' incorporate all transfers in the Aither Water Markets Database including \$0 value transfers.

Note: Recent QLD water trade data was not available at the time of writing. 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. All Queensland entitlements are denoted by "Water Plan (Water Management Area/Water Supply Scheme) entitlement type".

Notes

- 1) This monthly Volume Weight Average Price (VWAP) has been calculated in line with Aither's calculation methodology which is available upon request.
- 2) Only trades reported in May 2019 are included in this calculation.
- 3) 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 available upon request.
- 4) This figure 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.
- 5) 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.
- 6) Vic Murray Above the Choke is Vic 6 Murray (Dart to Barmah).
- 7) Vic Murray Below the Choke is an aggregation of the following HRWS and LRWS entitlement types: Vic 7 Murray and Vic 6B Lower Broken Creek.
- 8) Vic Greater Goulburn is an aggregation of the following HRWS and LRWS entitlement types: Vic 1A Greater Goulburn, Vic 1B Boort and Vic 3 Lower Goulburn.
- 9) Vic Campaspe is an aggregation of the following HRWS and LRWS entitlement types: Vic 4A Campaspe and Vic 4C Lower Campaspe.
- 10) Vic Loddon is an aggregation of the following HRWS and LRWS entitlement types: Vic 5A Loddon and Vic 5B Bullarook.
- 11) NSW Namoi GS is an aggregation of the following HS and GS entitlements: NSW Lower Namoi GS and NSW Upper Namoi GS.
- 12) NSW Border Rivers is an aggregation of the following GS entitlements: NSW Border Rivers GS A and NSW Border Rivers GS B.
- 13) NSW Barwon Darling Unregulated is an aggregation of the following entitlements: NSW Barwon-Darling Unregulated A, NSW Barwon-Darling Unregulated B and NSW Barwon-Darling Unregulated C.
- 14) QLD recent trade data was unavailable 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.

Document history

Background

Aither Pty Ltd was engaged in June 2018 by the Australian Government Department of Agriculture and Water Resources to provide price information on water entitlements across the Murray–Darling Basin. This document provides a summary overview of this data.

A more detailed report can be found at the Department's website (http://www.agriculture.gov.au/water/markets/market-price-information).

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