



Managing groundwater extraction to limits - Presentation 2a

Extraction patterns in the Upper Murray groundwater source

December 2020

We seek your input

The department must manage groundwater extraction to extraction limits defined in water sharing plans.

There are two methods available to reduce access if extraction by all water users exceeds the limit. These methods can be used separately or in combination.

We seek your comment on the method or combination of methods that best suits your area.

Presentation content

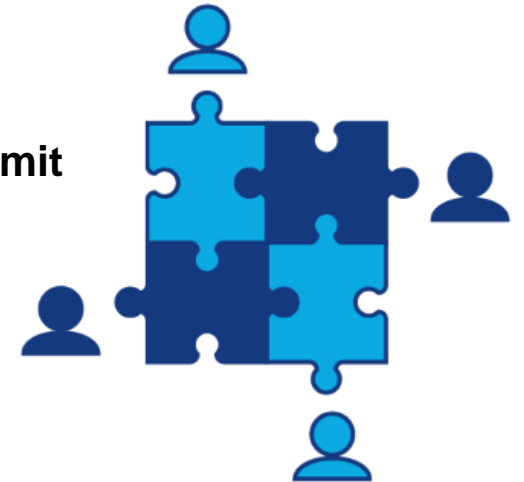
Presentation 1: Understanding extraction limits

Presentation 2a: Extraction patterns in the Upper Murray groundwater source

Learn more about:

- the share profile
- the use profile
- how extractions compare to the long-term annual average extraction limit
- a new online dashboard

Presentations 3a: Exploring options to return extractions to limits if limits are exceeded



Share profile – Upper Murray

Category of licence	Number of licences	Total
Aquifer access licence	94	41,066 unit shares
Local Water Utility access licence	2	59 ML/yr
Aquifer (town water supply)	2	92 unit shares
Basic landholder rights		403 ML/yr*

* Basic landholder right is assumed to be used in full every year

Water sharing rules – Upper Murray

Maximum carry over – the maximum water allocation remaining in a water account that can be carried over from water year to the next water year

Domestic and stock/Local Water Utility	0
Aquifer	0.74 ML/unit share

Maximum water account debit – the maximum water allocation that can be taken or traded to another licence

Domestic and stock/Local Water Utility	Sum of allocations + allocation traded in
Aquifer	1.37 ML/unit share + allocation traded in

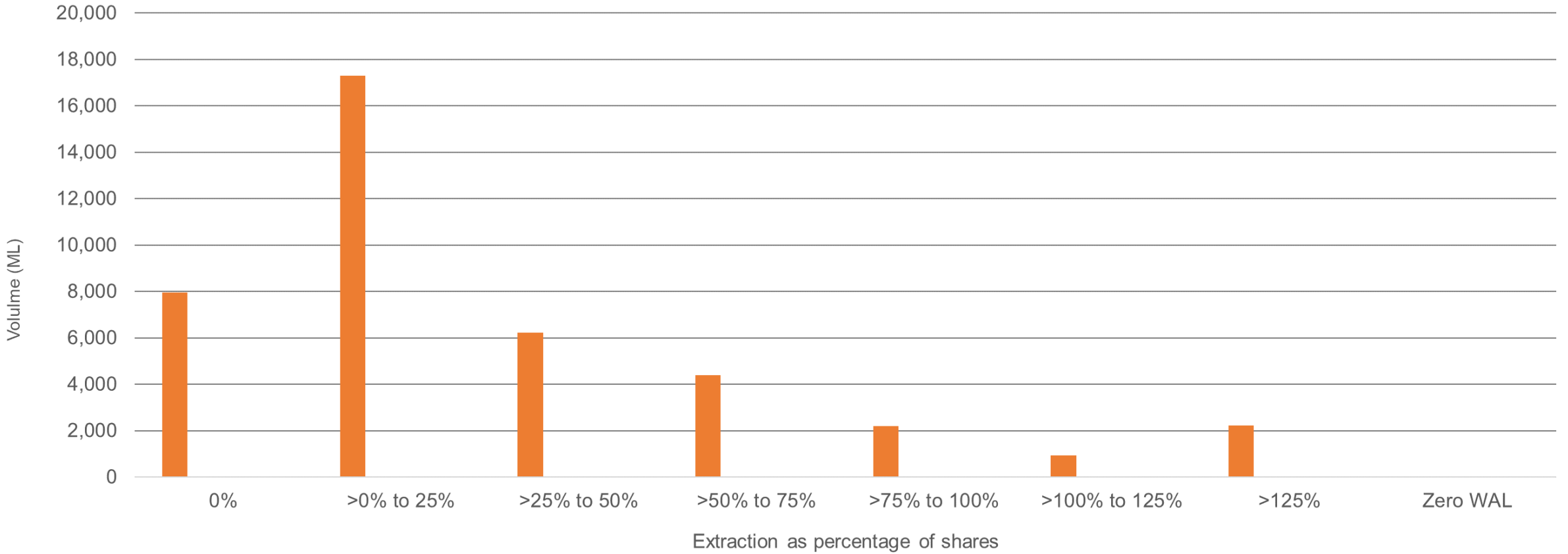
Limits and triggers

Long-term average annual extraction limit	14,109 ML/yr
Compliance trigger (extraction limit + 10%)	15,520 ML/yr

Share profile – Upper Murray

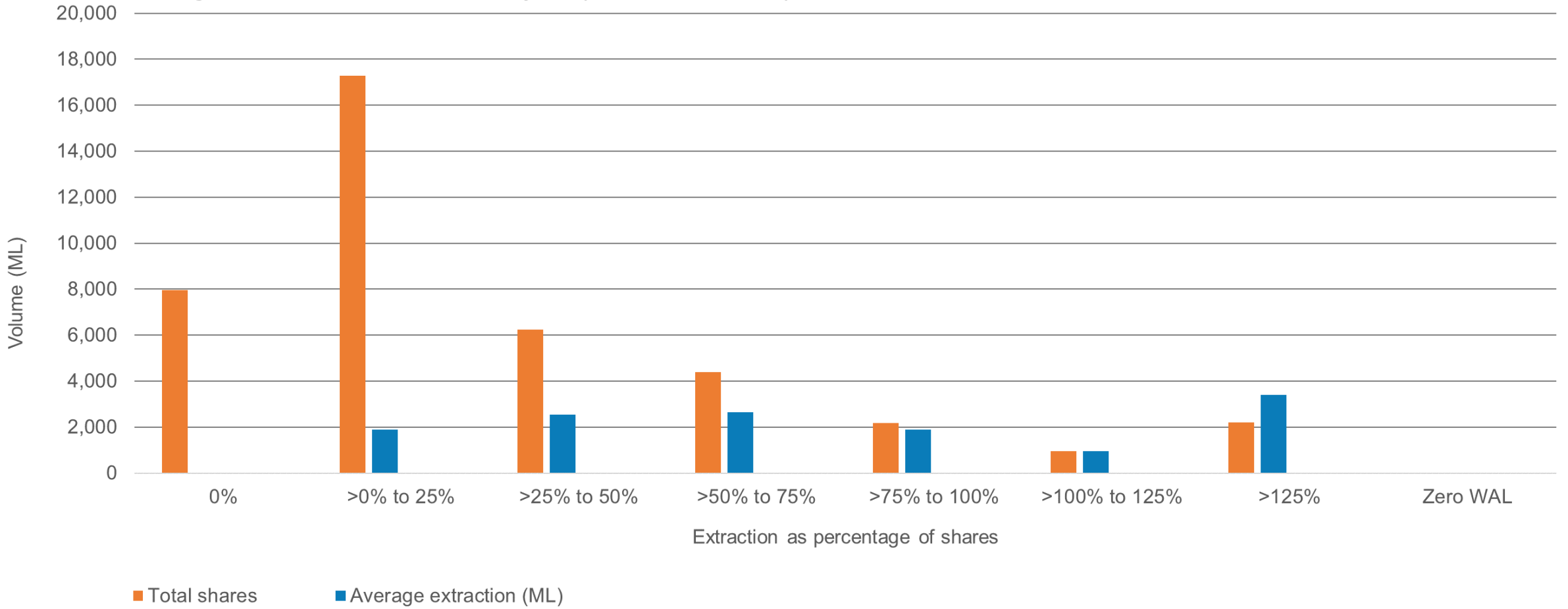
Extraction as percentage of shares	Number of Accounts	Total shares	Average extraction (ML)	Average volume (ML) traded INTO accounts	Average volume (ML) traded OUT of accounts
0%	25	7,957	0	0	836
>0% to 25%	23	17,290	1,885	0	1,383
>25% to 50%	20	6,233	2,556	20	0
>50% to 75%	11	4,389	2,659	415	0
>75% to 100%	4	2,190	1,890	253	60
>100% to 125%	3	944	955	109	0
>125%	2	2,214	3,400	1,475	0
Zero WAL	10	0	0	16	0

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)

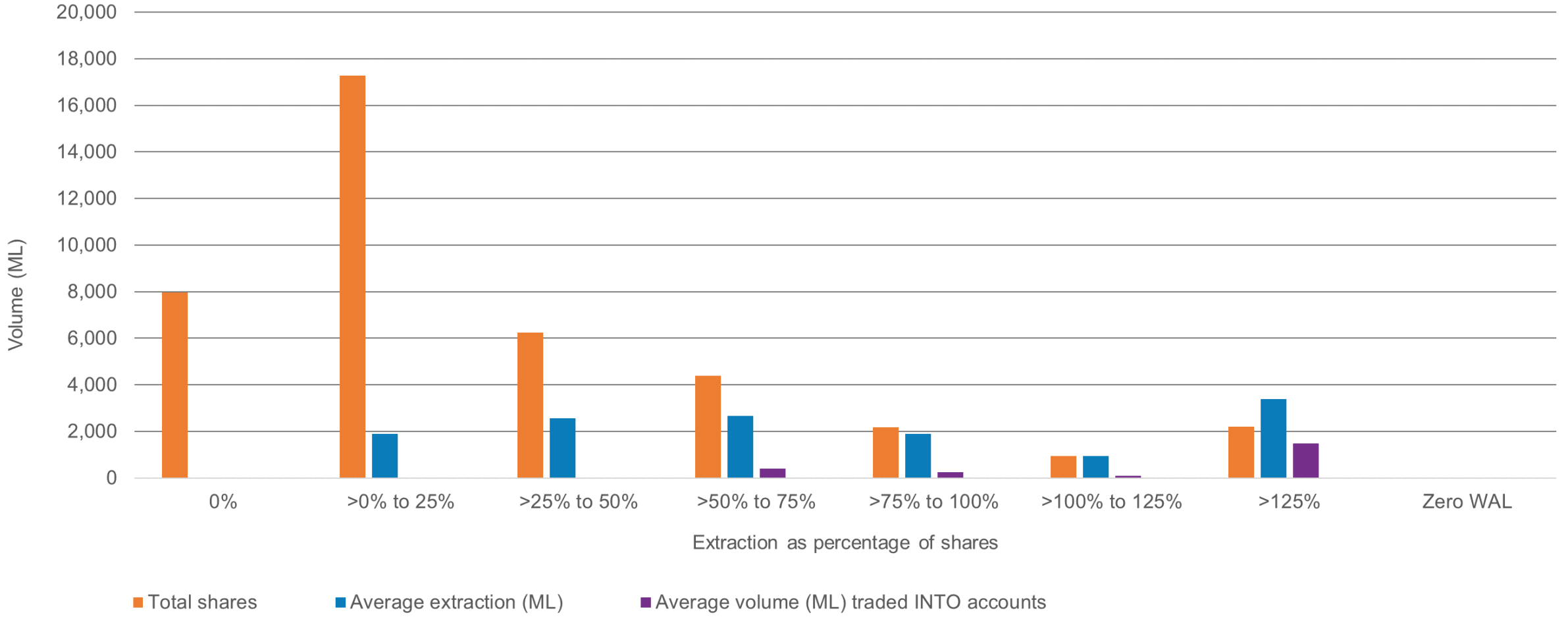


■ Total shares

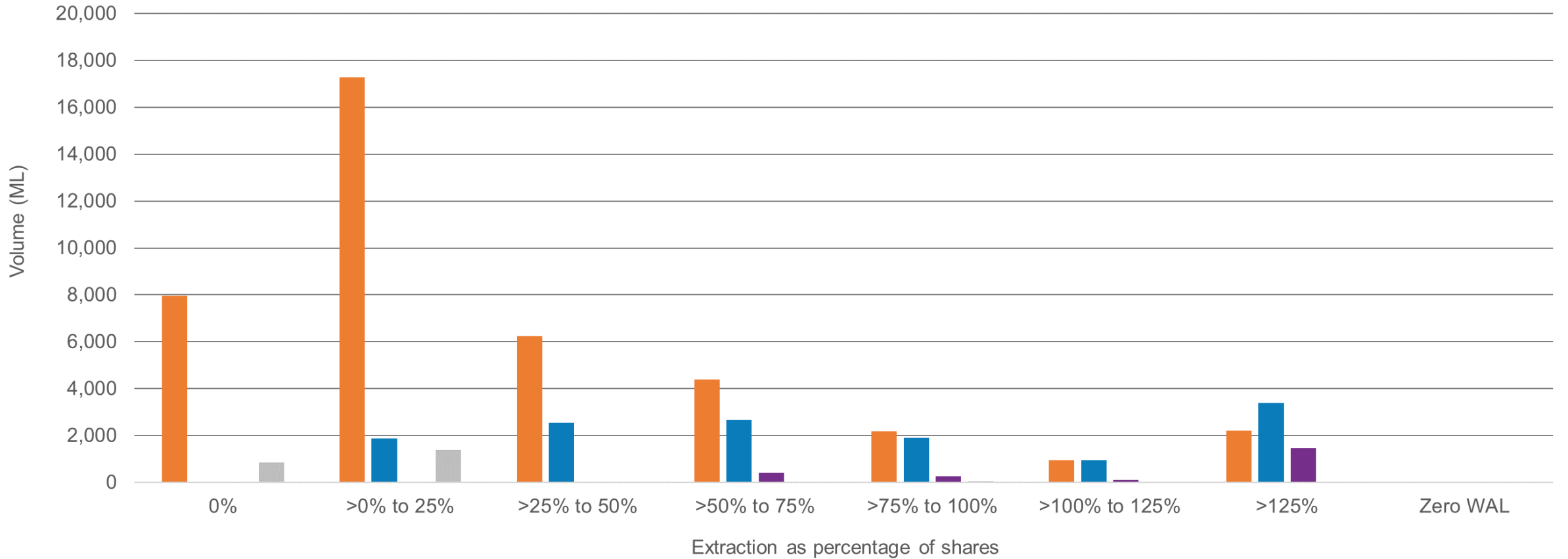
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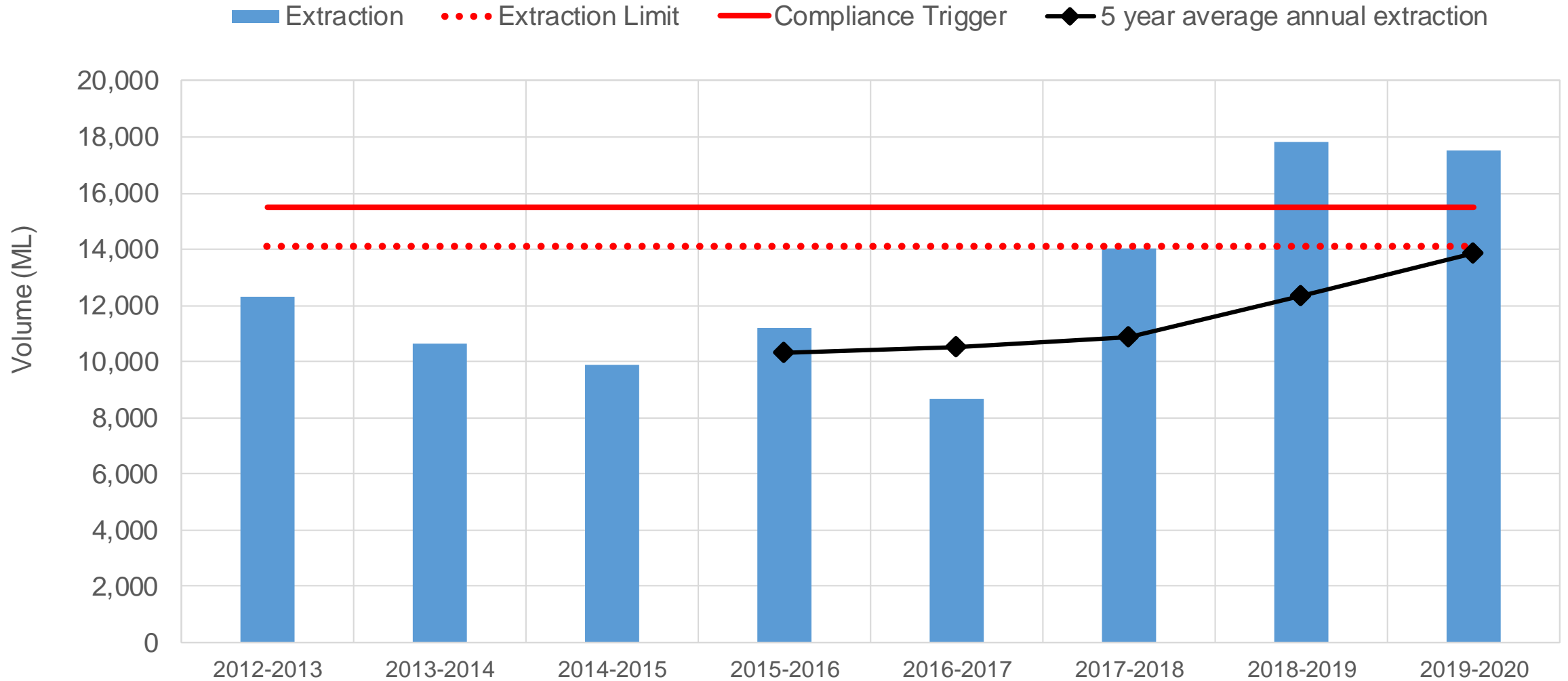


Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



■ Total shares ■ Average extraction (ML) ■ Average volume (ML) traded INTO accounts ■ Average volume (ML) traded OUT of accounts


Extraction Vs. limits – Upper Murray



Online dashboard

- Dashboard launched December 2020
- Access at <https://www/dpie.nsw.gov.au/managing-access-to-groundwater>





Planning, Industry & Environment

Status of Groundwater Extraction

UPPER MURRAY GROUNDWATER SOURCE

Select an inland groundwater source here: Last updated: 14/12/2020

All groundwater sharing plans have rules to manage extraction in a water source to its long-term average annual extraction limit.

Access to groundwater in the **UPPER MURRAY GROUNDWATER SOURCE** may be reduced if average extraction over the previous **5 years** is more than **110%** of the extraction limit (known as the compliance trigger). Note: ML=Megalitres

2020-2021 Water Year

Volume available in water accounts (ML)	Volume that if extracted will reach the compliance trigger (in ML, calculated annually)	Volume remaining to be extracted before reaching the compliance trigger (in ML, calculated throughout the year)
56,233	19,528	17,859

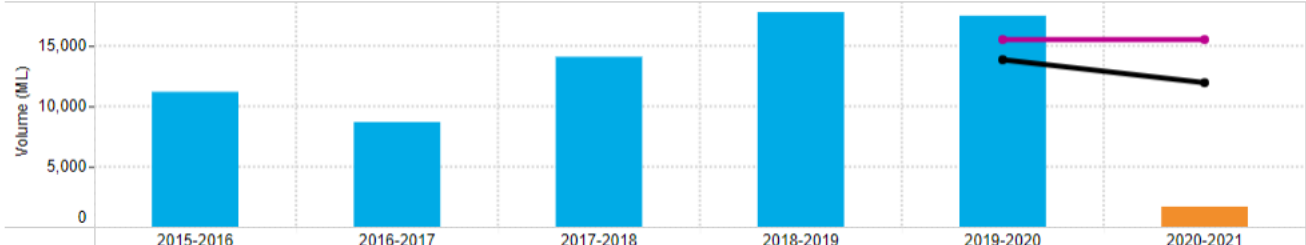
Likelihood of compliance being triggered in the 2020-2021 Water Year:

MEDIUM

Extraction compared to the compliance trigger over time:

This graph shows yearly and average extraction over five years and compares them to the compliance trigger. If the 5 year average extraction goes above the compliance trigger, then access to groundwater may be reduced in the next water year.

■ Total Yearly Extraction ■ Current Extraction to date ■ Average extraction ■ Compliance Trigger



The 2020-2021 water year is still open and only reflects the extraction to date (including basic land holder rights (BLR)). The current year extraction data comes from BLR estimates, meter reads and unverified IWAS entries.

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The End

For more information go to

www.dpie.nsw.gov.au/managing-access-to-groundwater

