



Managing groundwater extraction to limits - Presentation 2b

Extraction patterns in the Lower Lachlan 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

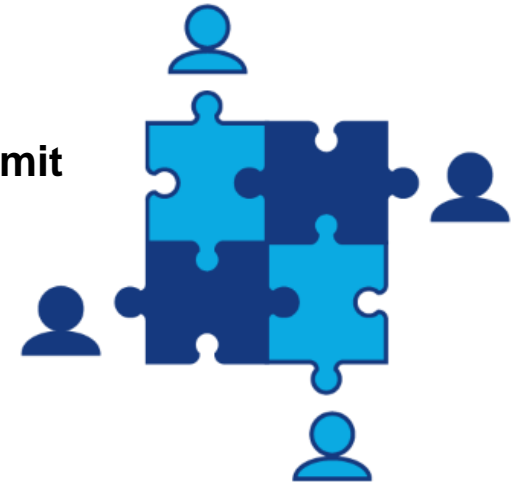
Presentation 1: Understanding extraction limits

Presentation 2b: Extraction patterns in the Lower Lachlan 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 3b: Exploring options to return extractions to limits if limits are exceeded



Share profile – Lower Lachlan

Category of licence	Number of licences	Total
Aquifer access licence	88	105,678 unit shares
Local Water Utility access licence	3	2,922 ML/yr
Aquifer (town water supply)	1	2 ML/yr
Basic landholder rights		9000 ML/yr*
Native Title Rights		In accordance with native title determination for the Barkandji Traditional Owners #8 under the <i>Native Title Act 1993</i>

Water sharing rules – Lower Lachlan

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	1 ML/unit share

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

Domestic and stock and Local Water Utility	Sum of allocations + allocation traded in
Aquifer	1.5 ML/unit share + allocation traded in

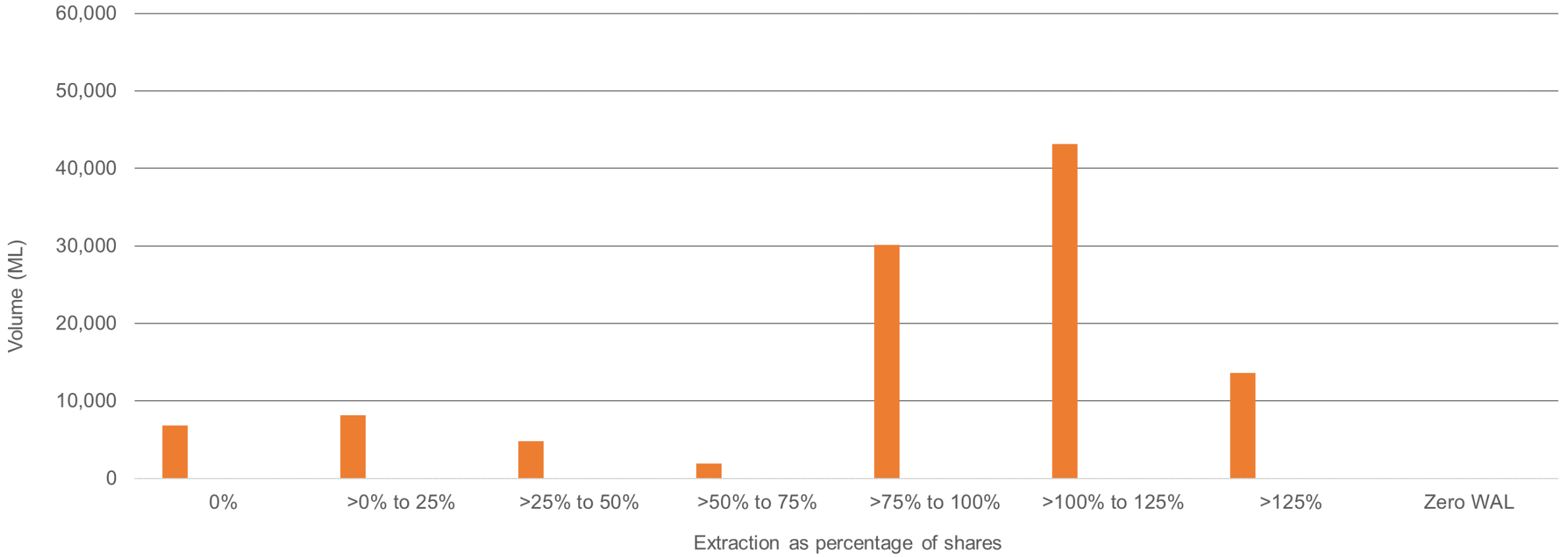
Limits and triggers

Long-term average annual extraction limit	117,000 ML/yr
Compliance trigger (extraction limit + 5%)	122,850 ML/yr

Share profile – Lower Lachlan

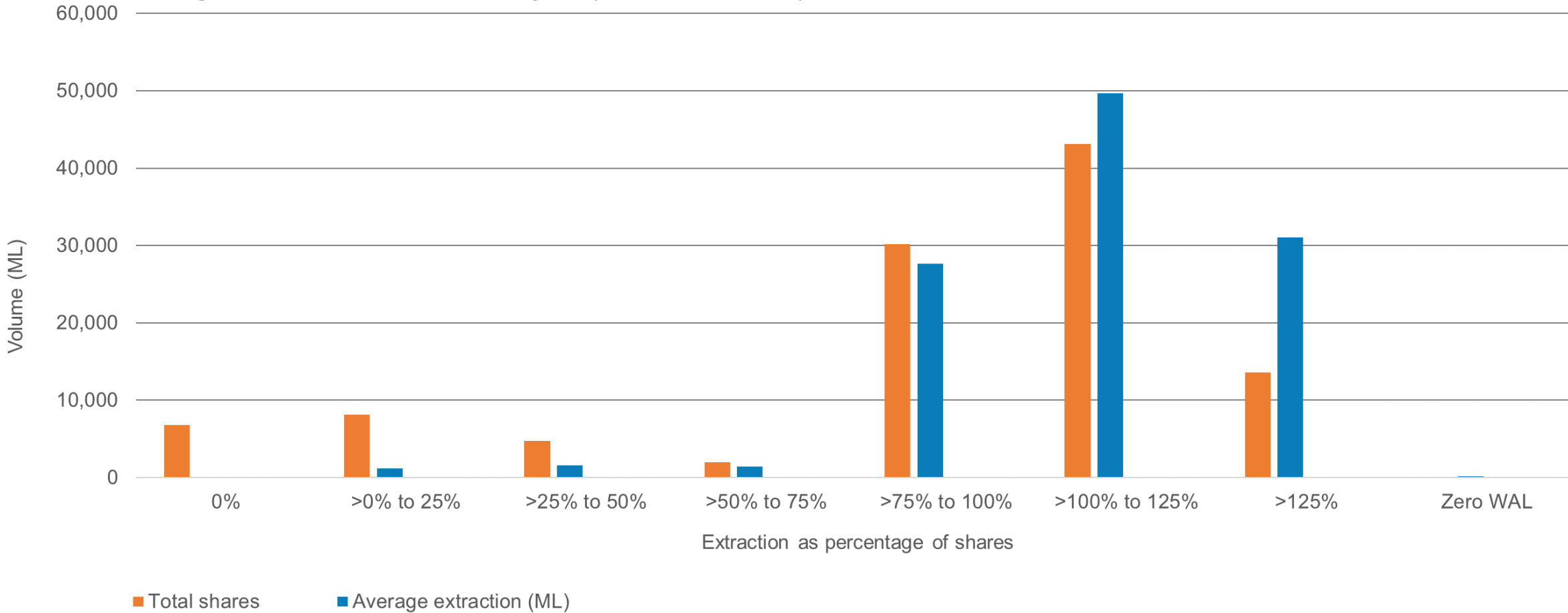
Extraction as percentage of shares	Number of Accounts	Total shares	Average extraction (ML)	Average volume (ML) traded INTO accounts	Average volume (ML) traded OUT of accounts
0%	17	6,828	0	1,027	7,210
>0% to 25%	8	8,158	1,214	1,685	8,568
>25% to 50%	8	4,766	1,594	162	2,096
>50% to 75%	3	1,953	1,399	281	925
>75% to 100%	11	30,151	27,638	2,939	5,911
>100% to 125%	15	43,130	49,668	5,297	2,342
>125%	18	13,616	31,061	18,017	2,012
Zero WAL	14	0	182	444	804

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

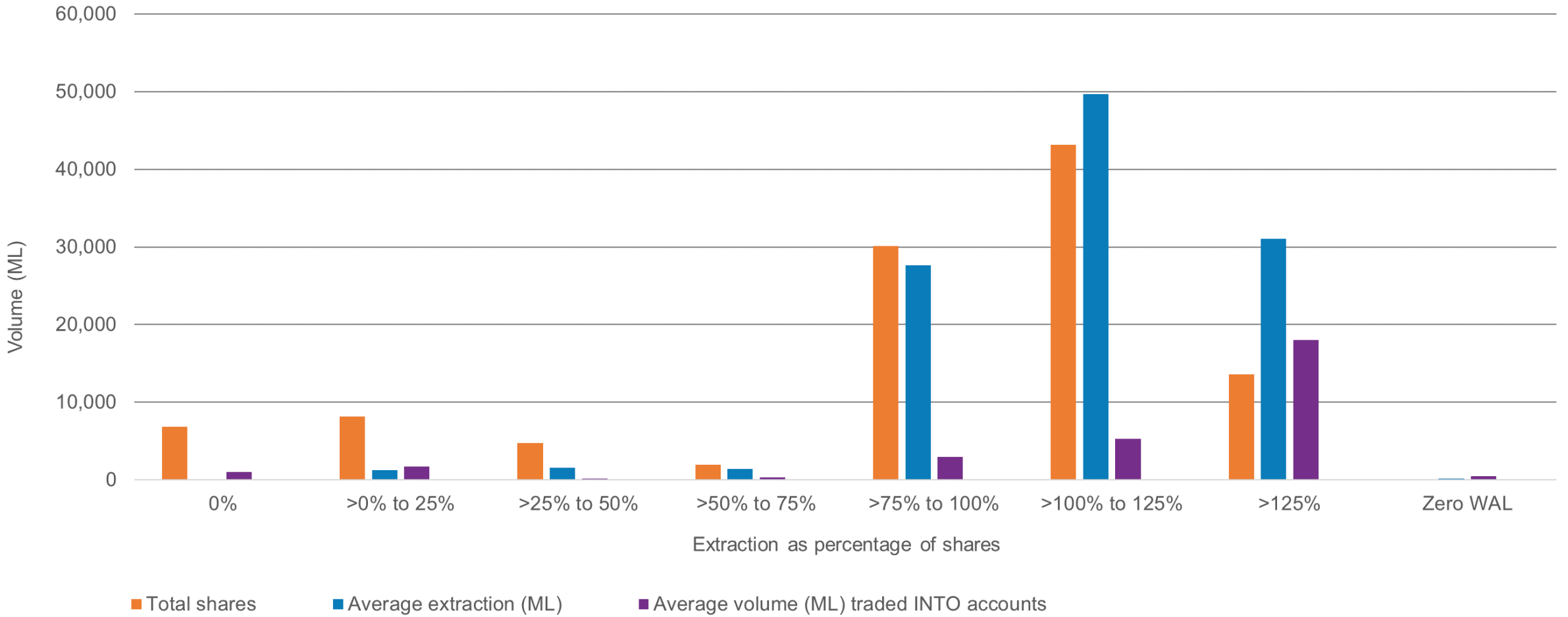


■ Total shares

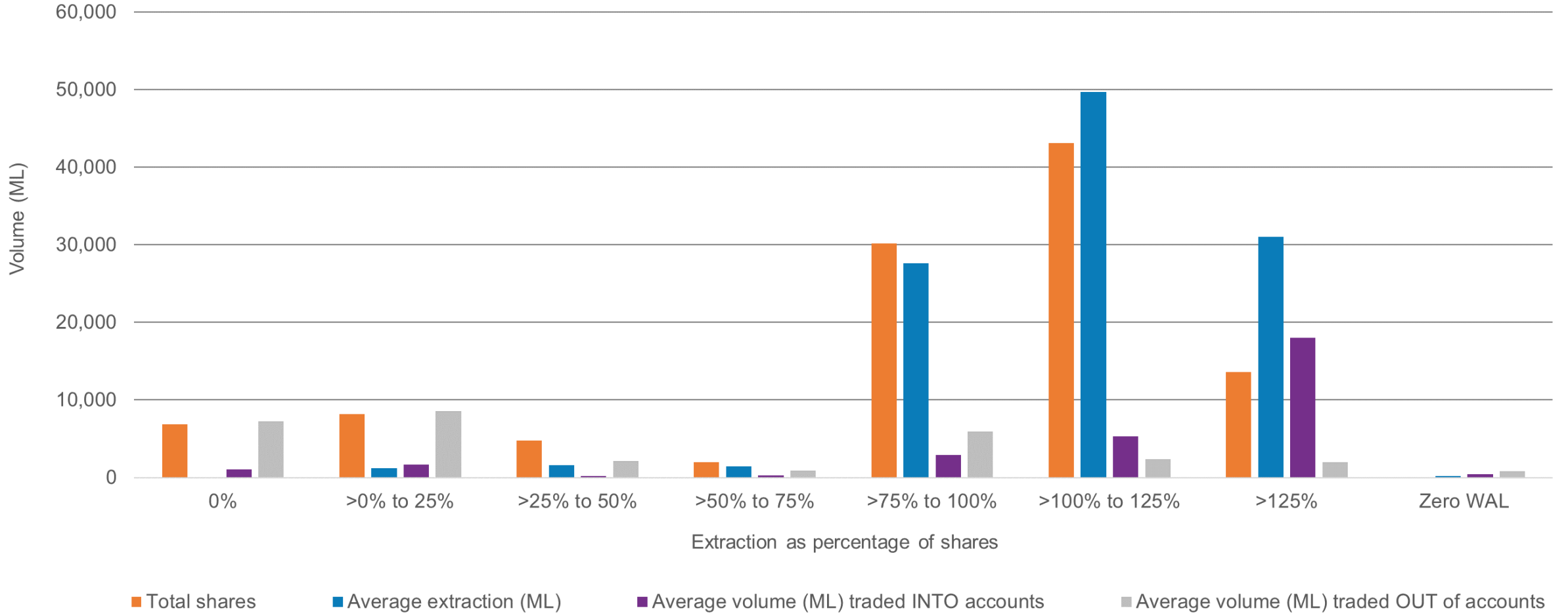
Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



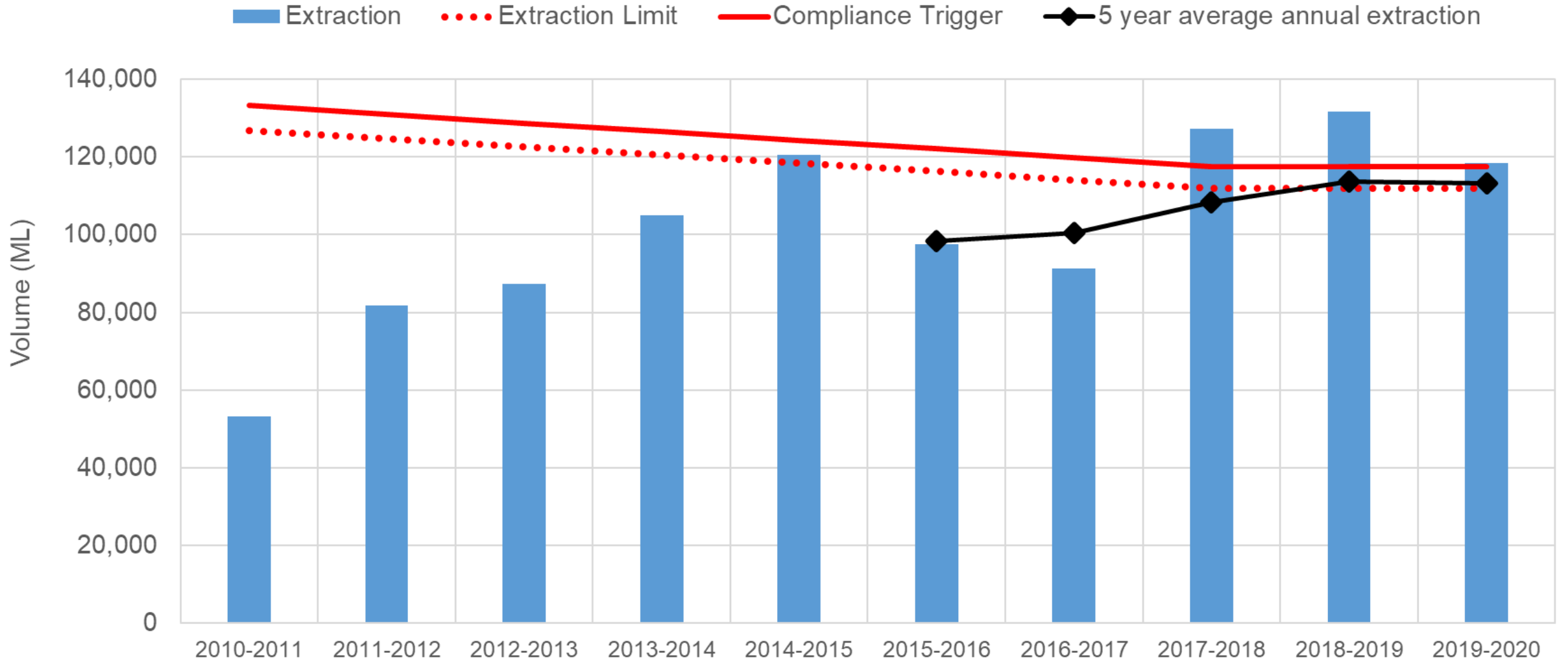
Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



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



Extraction Vs. limits – Lower Lachlan



Online dashboard

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



Status of Groundwater Extraction

LOWER LACHLAN GROUNDWATER SOURCE

Select an inland groundwater source here:

LOWER LACHLAN GROUNDWATER SOURCE

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 **LOWER LACHLAN GROUNDWATER SOURCE** may be reduced if average extraction over the previous **5 years** is more than **105%** of the extraction limit (known as the compliance trigger). Note: ML=Megalitres

2020-2021 Water Year

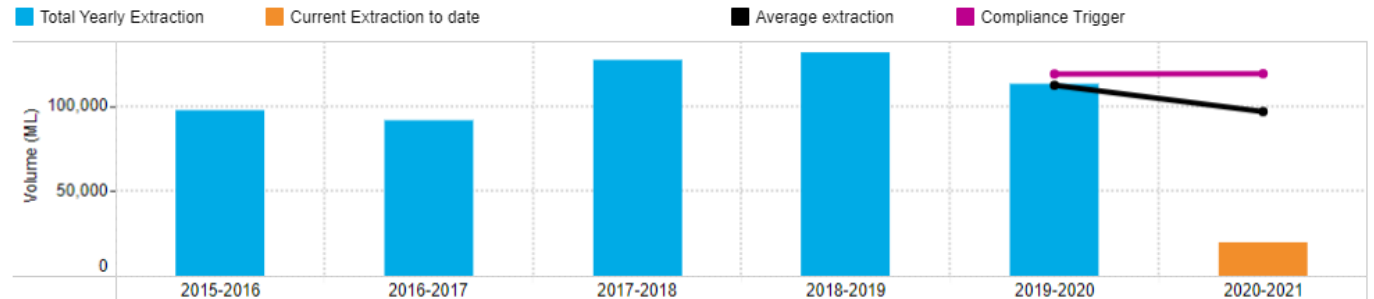
Volume available in water accounts (ML)	Volume that if extracted will reach the compliance trigger (in ML, calculated annually)	Volume remaining to be extracted before reaching the compliance trigger (in ML, calculated throughout the year)
149,268	131,574	111,579

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.



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.

+ a b | e a u

← → ↶ ⚙️ 📄

Disclaimer: The information contained in this publication is based on knowledge and understanding at the time of writing and may not be accurate, current or complete. The State of New South Wales (including the NSW Department of Planning, Industry and Environment), the author and the publisher take no responsibility, and will accept no liability, for the accuracy, currency, reliability or correctness of any information included in the dashboard (including material provided by third parties). Readers should make their own inquiries and rely on their own advice when making decisions related to material contained in this publication.

Presentation content

Presentation 1: Understanding extraction limits

Presentation 2b: Extraction patterns in the Lower Lachlan groundwater source

Learn more about:

- **the share profile**
- **the use profile**
- **how extractions compare to the extraction limit**
- **a new online dashboard**

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



The End

For more information go to

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

