



Managing groundwater extraction to limits - Presentation 2f

**Extraction patterns in the Upper Namoi Zone 5 Namoi
Valley (Gin's Leap to Narrabri) groundwater source**

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

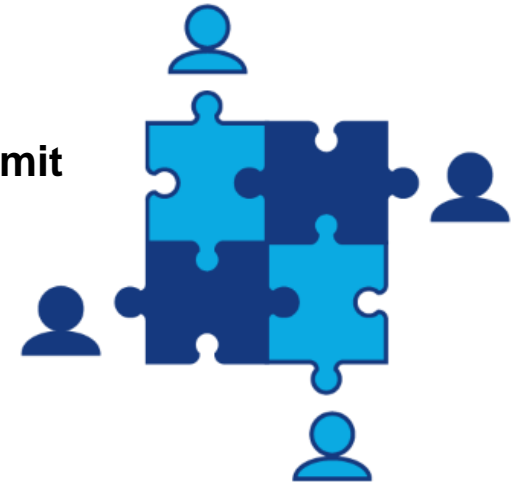
Presentation 1: Understanding extraction limits

Presentation 2f: Extraction patterns in the Upper Namoi Zone 5 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 3f: Exploring options to return extractions to limits if limits are exceeded



Share profile – Upper Namoi Zone 5

Category of licence	Number of licences	Total
Aquifer access licence	76	15,992 unit shares
Basic landholder rights		128 ML/yr*

Water sharing rules – Upper Namoi Zone 5

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	2 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	2.0 ML/unit share + allocation traded in

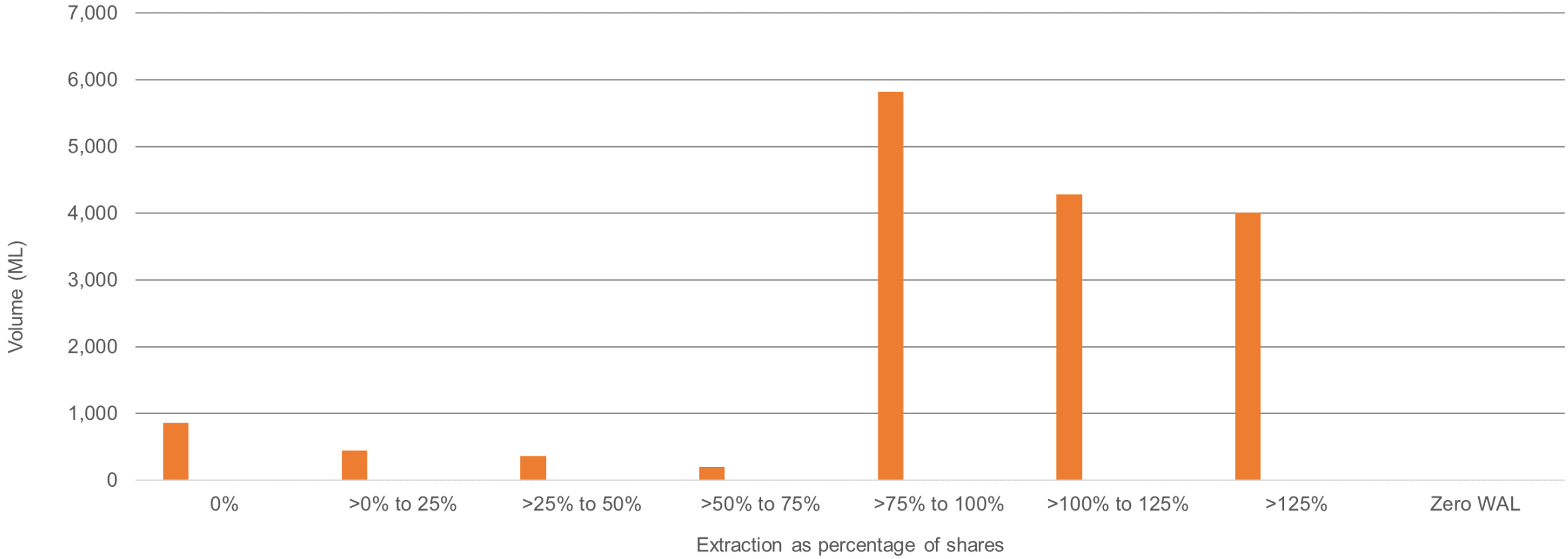
Limits and triggers

Long-term average annual extraction limit	16,128 ML/yr
Compliance trigger (extraction limit + 5%)	16,934 ML/yr

Share profile – Upper Namoi Zone 5

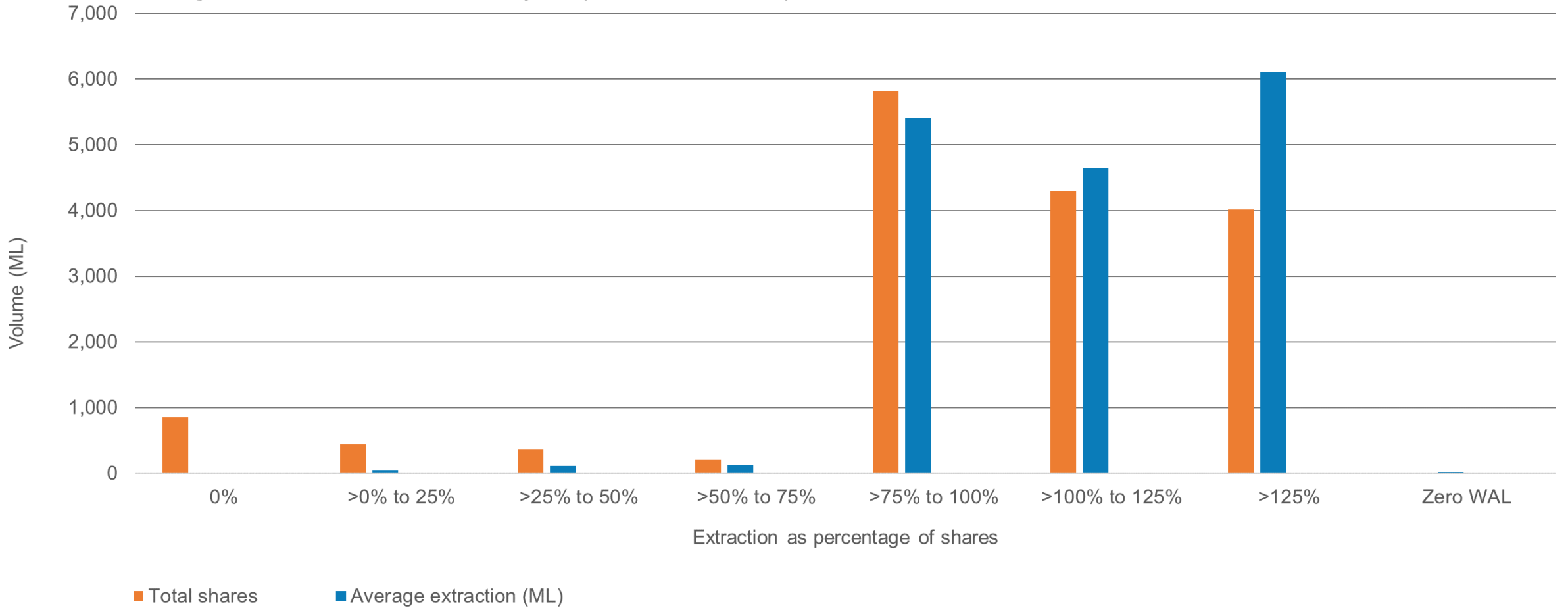
Extraction as percentage of shares	Number of Accounts	Total shares	Average extraction (ML)	Average volume (ML) traded INTO accounts	Average volume (ML) traded OUT of accounts
0%	32	857	0	0	793
>0% to 25%	6	445	56	0	344
>25% to 50%	3	365	114	0	282
>50% to 75%	2	203	121	0	79
>75% to 100%	10	5,821	5,401	213	478
>100% to 125%	7	4,286	4,647	324	57
>125%	10	4,015	6,106	1,534	18
Zero WAL	6	0	13	35	61

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

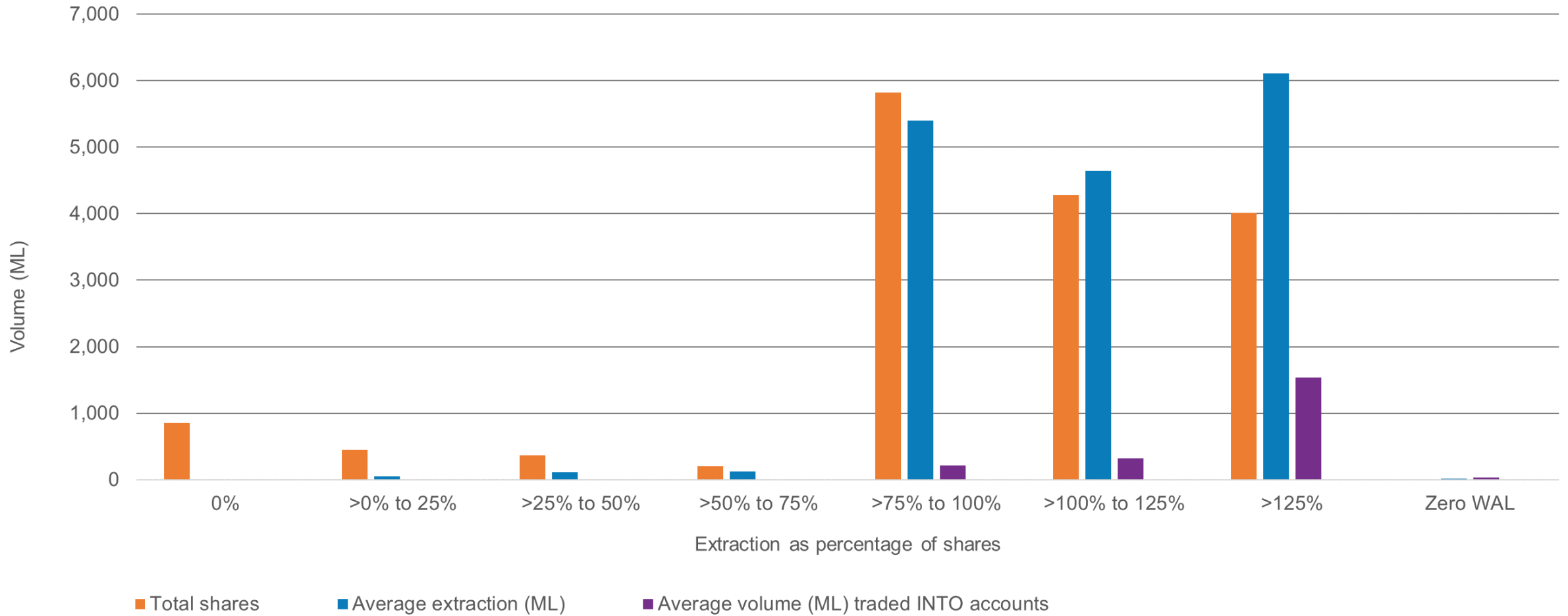


■ Total shares

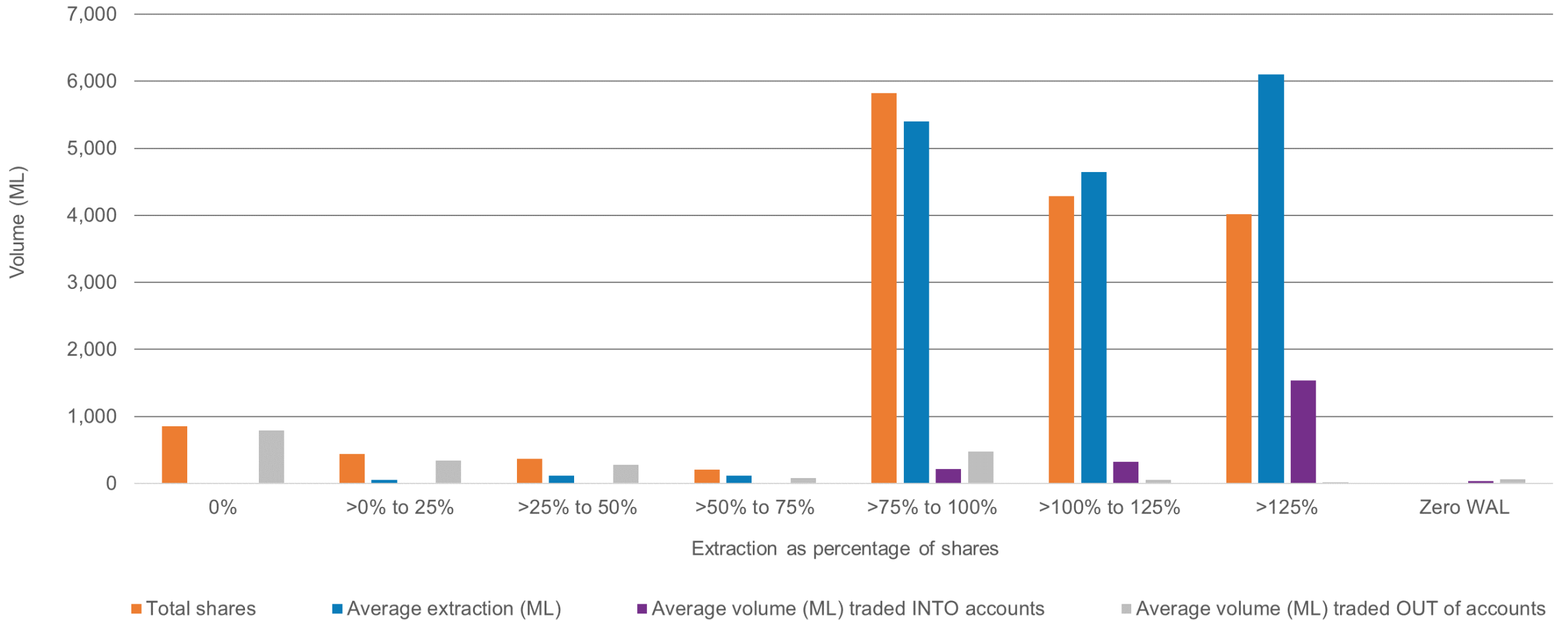
Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



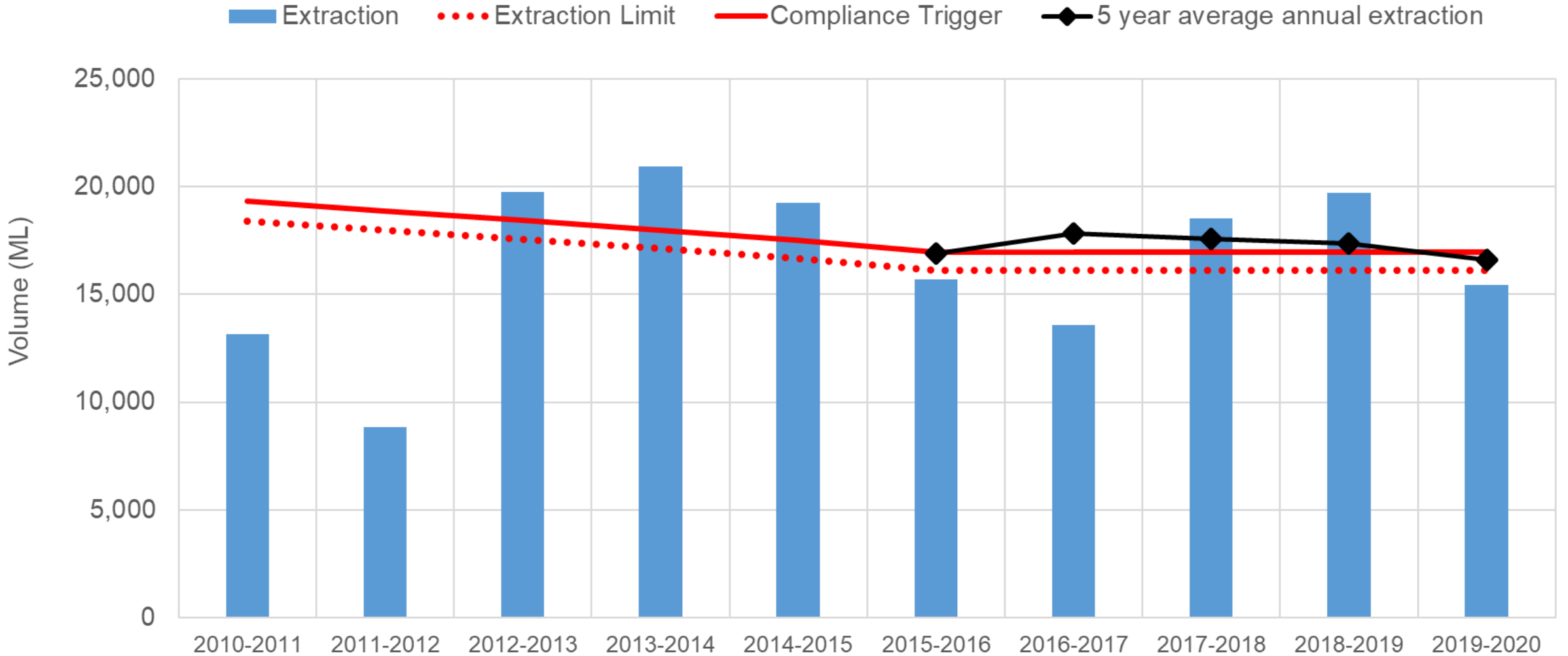
Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)



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




Extraction Vs. limits – Upper Namoi Zone 5



Online dashboard

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




Planning, Industry & Environment

Status of Groundwater Extraction

UPPER NAMOI ZONE 5 NAMOI VALLEY (GIN'S LEAP TO NARRABRI) GROUNDWATER

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 NAMOI ZONE 5 NAMOI VALLEY (GIN'S LEAP TO NARRABRI) 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)
22,817	17,449	17,081

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

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