



Managing groundwater extraction to limits – Presentation 1

Understanding extraction limits

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

- **Groundwater extraction limits in NSW**
- **How we determine if limits are exceeded**
- **The two methods available if limits are exceeded**

Presentation 2: Understanding extraction patterns

Presentations 3 : Exploring options to return extraction to limits if limits are exceeded



Types of limits

@ individual

Bore extraction limit

Water supply works approval

Maximum water account debit

Water Access Licence

@ water source

Long-term average annual extraction limit

Water Sharing Plan (NSW)

Sustainable diversion limit

Water Sharing Plan (Commonwealth)

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Determining if water source limits are exceeded

NSW
Long-term average annual extraction limit



Compare average extraction over past 5 years to extraction limit



Limit exceeded if:



Average extraction > extraction limit plus buffer defined in water sharing plan (typically 5 – 10%)

Commonwealth
Sustainable diversion limit



Compare Annual Actual Take (extraction) in previous year to Annual Permitted Take



Limit exceeded if:

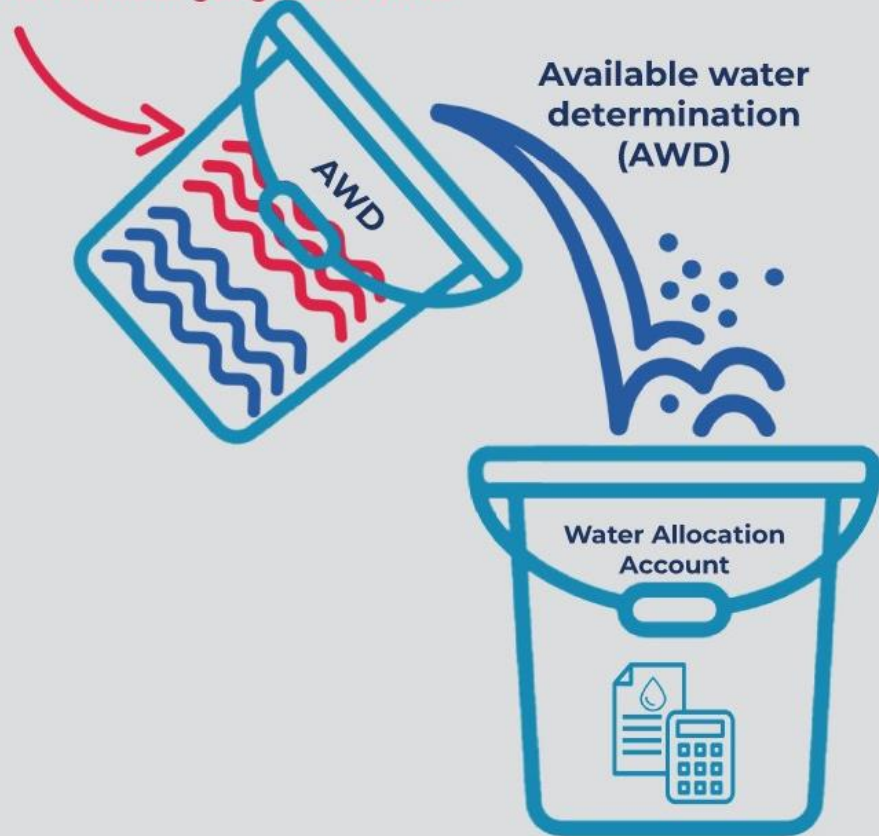


Running balance of overs and unders since 1 July 2019 >20% of Sustainable Diversion Limit and no reasonable excuse



Methods available if limits are exceeded

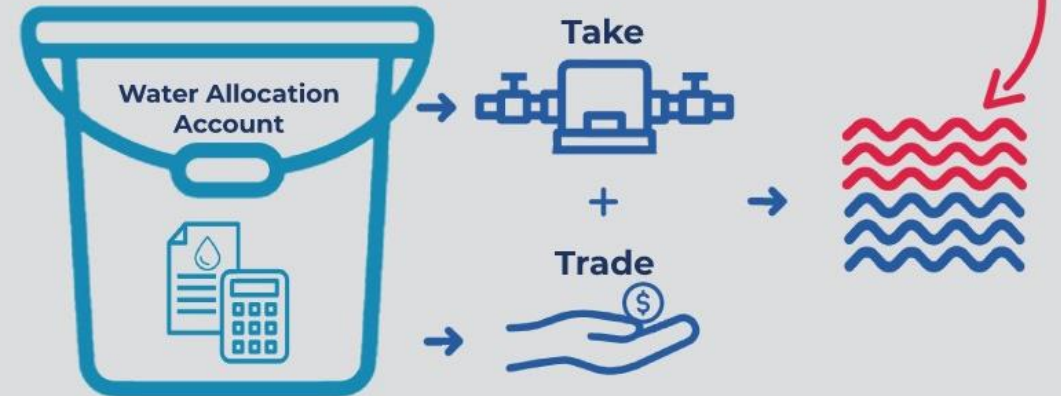
Method 1 - Reduce water going into accounts



Method 1 - Reduce the available water determination (AWD)

Maximum water account debit

Method 2 - Reduce water going out of accounts



Method 2 - Reduce the maximum water account debit (water taken and / or traded from account)

Announcements

May/June

- Assesses if extraction against extraction limits using metering data available and estimates of use until 30 June
- Determine if a reduced available water determination or reduced maximum water account debit is required.

1 July

- Announce an available water determination and maximum water account debit for each water source.

Post 1 July

- Re-assess extraction against extraction limits using final meter readings.
- The maximum water account debit may increase, up to the maximum specified in the water sharing plan
- An additional available water determination can be made, up to the maximum specified in the water sharing plan

Example: Licence with 100 shares

Scenario	A	B	C	D	E
Available water determination (for the groundwater source)	1ML/share	0.65ML/share	0.25ML/share	1ML/share	1ML/share
Maximum water account debit (for the groundwater source)	2ML/share + trade in	2ML/share + trade in	2ML/share + trade in	1ML/share + trade in	1ML/share + trade in
Water allocation account with 100 unit shares	Volume (ML)	Volume (ML)	Volume (ML)	Volume (ML)	Volume (ML)
Carryover	50	50	50	50	50
Allocation INTO account (available water determination)	100	65	25	100	100
Trades INTO account	0	0	50	0	50
Water account balance	150	115	125	150	200
Maximum water account debit for THIS account (volume x unit shares + trades in)	200	200	200 + 50	100	100 + 50
Volume that can be debited (taken or traded) from account	150	115	125	100	150
Account balance not available for take or trade	0	0	0	50	50

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Presentation 2: Understanding extraction patterns

Presentations 3 : Exploring options to return extraction to limits if limits are exceeded

The End

For more information go to

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

