

1 December 2022

# Murrumbidgee Regulated River Water Source

## Water allocation update

There is a 5% increase to general security allocation in the Murrumbidgee regulated river water source. The cumulative general security allocation for the 2022/23 water year is now 60% of entitlement. With average carryover of approximately 28%, total general security water availability for the 2022/23 water year is around 88% of entitlement.

## Year to date allocations

2022/23	High Security	General Security	Average Carryover
Murrumbidgee	95%	60%	28%

Full storages and low demand continue to limit improvements in resource allocation. Significant resource improvements, and therefore allocation increases, will come from usage of the regulated resource from storages followed by inflows backfilling this airspace. Total regulated usage to-date is estimated to be around 20 gegalitres, much lower than this time last year.

The improvement in this assessment has been realised by retiring early Snowy Savings liability within the Murrumbidgee regulated valley. This volume is formally notified to Snowy Hydro in February each year. It is adjusted in the 2023/24 required annual release and delivered from the Snowy Scheme for environmental programs. This retirement of liability has been added to the usage to date volumes in the pie and bar charts presented further below in the statement.

In accordance with the requirements of the water sharing plan, as general security water availability (allocations plus carryover) has exceeded 80% of entitlement, a small volume from the current resource improvement must be set aside to meet *Provisional Storage Volume 1* (PSV1) requirements.

Information on the current Murrumbidgee IVT account balance and therefore the current trade status can be found at: [www.waternsw.com.au](http://www.waternsw.com.au).

The ongoing wet conditions are supporting periods of supplementary access. Subject to individual licence conditions and approved periods of access, users can take supplementary water and use uncontrolled flow provisions. Supplementary access details can be found at: [waterinsights.waternsw.com.au](http://waterinsights.waternsw.com.au)

## Storage levels (as of 1 December 2022)

- Blowering Dam is about 101% full – airspace operations\*, holding 1,650,000 megalitres (ML).
- Burrinjuck Dam is about 95% full – rising, holding about 975,000 ML.

\* Airspace operation is the controlled release of water to reduce the risk and size of a potential uncontrolled spill.

## Climatic outlook

The Bureau of Meteorology's seasonal outlook for December 2022 to February 2023 indicates that rainfall is likely to be above median across the catchment. Day time temperatures are likely to be cooler than median for the catchment, while overnight temperatures are likely to be warmer than median.

The Bureau's El Niño-Southern Oscillation (ENSO) outlook indicator remains at La Niña, with a La Niña event currently underway. Models indicate that the ENSO may return to neutral conditions in early 2023. The Indian Ocean Dipole (IOD) index remains negative, with models suggesting a return to neutral conditions in summer. Negative IOD and La Niña conditions increases the chances of above average rainfall. Further details at: [www.bom.gov.au/climate/outlooks/#/overview/summary](http://www.bom.gov.au/climate/outlooks/#/overview/summary)

## Trade

Trade **out of** the Murrumbidgee Valley is **closed** and trade **into** the Murrumbidgee is **open** (as of 1 December 2022). Water users should monitor the WaterNSW website ([www.waternsw.com.au](http://www.waternsw.com.au)) for daily information about the IVT account balance, the status of trade, and other information. The Murrumbidgee IVT account is operated between its normal 0 GL and 100 GL range, and the account balance may vary daily. The Murrumbidgee IVT balance was spilt on 31 August 2022. There is no further IVT carryover water to spill from the Murrumbidgee IVT account this water year.

## Interstate 71V restriction

A temporary restriction on interstate water trades (clause 71V of the *Water Management Act 2000*) into the NSW Murray, Lower Darling and Murrumbidgee regulated river water sources from other states was announced on 5 August 2022.

Interstate trades are typically accompanied by a reassignment of physical water (resource) in storages from the selling state to the buying state. Due to full storages and ongoing wet conditions, there is limited capacity to hold reassigned resource and a high risk that any resource which is reassigned will spill. Therefore, interstate trades into NSW cannot be safely underpinned by resource. Should NSW accept incoming interstate trades, it is likely to impact current resources, which have already been allocated, to meet the trade. This would adversely impact existing NSW Murray allocations and water users. Therefore, a temporary restriction on interstate trades into NSW has been put in place to protect NSW water users.

The temporary restriction will remain in force until 31 December 2022. Given the current spill conditions at Hume Dam, it is likely to be extended into 2023 to allow NSW storage levels to reduce sufficiently to safely receive traded water.

More information on temporary water restrictions can be found at:

[www.industry.nsw.gov.au/water/allocations-availability/temporary-water-restrictions](http://www.industry.nsw.gov.au/water/allocations-availability/temporary-water-restrictions)

## Uncontrolled Flow (without-debit-take)

The water sharing plan permits general security water users to take water from uncontrolled flows (also known as unregulated flows) without-debit from their account water. This is permitted during periods of announced supplementary access. Supplementary access details can be found at:

[waterinsights.waternsw.com.au](http://waterinsights.waternsw.com.au)

Without-debit-take from uncontrolled flows by individual **general security entitlement** holders is subject to the following rules as outlined in the water sharing plan:

- Without-debit-take from uncontrolled flows (i.e. during periods of unregulated flows when supplementary access is permitted) is allowed when the effective available water for the current water year is less than or equal to 70% of entitlement (i.e. 0.7 megalitres per unit share component). Exercising of without-debit-take provisions is subject to the licence conditions of the respective individual entitlement/licence.
- The effective available water for an individual general security entitlement is defined as
  - just the general security allocation for the current water year if the carryover is less than 15% of entitlement for the relevant licence, or
  - the general security allocation for the current water year plus the carryover less 15% of entitlement, when carryover is greater than 15% of entitlement for the relevant licence.
- The effective available water in the current water year plus without-debit-take from uncontrolled flows cannot exceed 85% of an individual entitlement's share components (i.e. 0.85 megalitre per unit share component). Should these respective values sum to greater than 85% (for example, due to allocations increasing), then without-debit-take volumes will be converted to debit-take, to the extent necessary to bring the sum down to 85% of entitlement. That is, the account will reflect the new allocation as already having been used.
- When the effective available water in the current water year is greater than or equal to 85% of entitlement (i.e. 0.85 megalitre per unit share) for an individual entitlement, all without-debit-take will have converted to debit-take.

Water users should refer to the licence conditions of their individual licences for further details of rules applicable to their entitlements. Total uncontrolled flow (UCF) take to date on general security entitlements is estimated to be around 40 GL as of 30 November 2022.

## Next announcement

The next water allocation statement will be published on **Thursday 15 December 2022**. The 15 December 2022 statement will be the last statement for this water year to include updated probability analysis. From mid-March 2023 onward, the forecasts will focus on potential starting allocations for 1 July 2023.

No statement will be published on Tuesday 3 January 2023, with fortnightly statements resuming on Monday 16 January 2023.

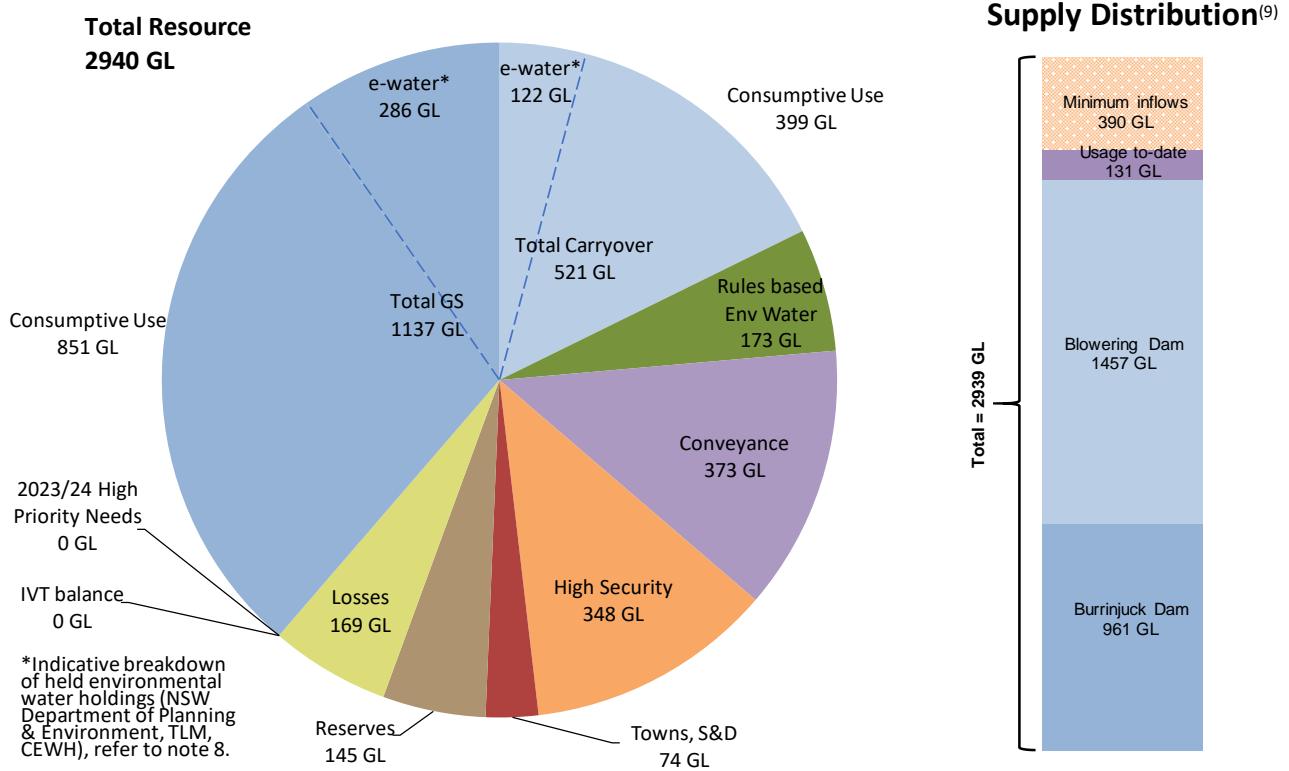
**Note: Murrumbidgee statements are now available around 2:30pm on the day of the publication.**

## Murrumbidgee resource assessment data sheet

Resource Distribution* (1 December) for 2022/23	Volume (GL)
Total Available Resource <sup>(1)</sup>	2,940
<i>less</i>	
Carryover <sup>(8)</sup>	521
Rules based Environmental Water <sup>(2)</sup>	173
Towns, Stock, Domestic (100%)	74
Reserves <sup>(3)</sup>	145
Conveyance <sup>(4)</sup>	373
Announced High Security (95%)	348
Losses (transmission, evaporation, operational) <sup>(5)</sup>	169
Murrumbidgee IVT account (carryover on 1 July) <sup>(6)</sup>	0
Announced General Security (54%) <sup>(8)</sup>	1,137
Year 2 (2023/24) high priority needs <sup>(7)</sup>	0

\*See notes below

## Murrumbidgee resource distribution 2022/23 – 1 December 2022



\*See notes below

### Data sheet notes

- 1) Total available resource – total active storage volume (Blowering & Burrinjuck Dams) at the day of assessment plus any usable flows in transit plus minimum inflows for rest of the year plus Snowy Hydro’s assured Required Annual Release (RAR) (including any flex (pre-release) from the prior year), as well as estimated usage to date. Snowy Hydro’s net Jounama Release for this year (2022/23) is estimated to be about 690 GL (includes montane release).
- 2) Rules-based environmental water – water required to be set aside under water sharing plans to provide for riverine environments. Includes end-of-system flow requirements (currently 63 GL) and environmental water allowances (EWA1 = 75 GL, EWA2 = 35 GL, EWA3 = 0 GL). Excludes ‘licence-based’ environmental water also known as held environmental water (HEW). This total volume typically reduces as water is used during the year.
- 3) Reserves – required primarily under statutory plans, and mainly used for emergency purposes and critical needs. Includes 25 GL per dam as an operational reserve, and Provisional Storage Volumes (PSV1 = 95 GL, PSV2 = nil).
- 4) Conveyance entitlement – a category of access licence originally issued to Irrigation Corporations to facilitate delivery of water through their channel systems. Allocation to this category is prescribed in the water sharing plans and is a function of high and general security allocations. Conveyance licences in the Murrumbidgee valley can also carryover 30% of their entitlement.
- 5) Losses – the best estimate of the volume required to run the river under dry conditions to meet demands for the rest of the water year. Includes storage evaporation, transmission and operational loss. This estimate is updated monthly.
- 6) IVT carryover value into 2022/23. Does not always the current IVT balance. Balance was spilt on 31 August 2022.
- 7) 2023/24 high priority needs on 1 July 2023 - volume set aside to cover high priority needs on 1 July 2023, for ‘Year 2’, including potential carryover.
- 8) Held environmental water (HEW) – licenced water administered by environmental water holders is reported here, with the associated portions of general security allocation and carryover also identified in the above pie chart. This reporting of held environmental water is the total credited to accounts (not usage) and is estimated to be 286 GL of GS, 15 GL of HS, 71 GL of conveyance allocation and 122 GL of GS carryover. These entitlements are held and/or managed either singly or jointly by various environmental holder groups, including the NSW Department of Planning and Environment, The Living Murray and the Commonwealth Environmental Water Holder. Details on environmental holdings can be found on individual agency websites.
- 9) Supply Distribution – the distribution of supply includes volumes at the time of the assessment for the following categories: active volumes in the dams, indicative usage to-date (may be estimates prior to reconciliation with hydrographic updates) and assumed minimum future inflows (includes Snowy Hydro’s guaranteed inflows for the water year, and late season inflows).

## Allocation Increments in 2022/23

Date	License Category	Increment	Total 2022/23
1-Jul	Domestic & Stock	100%	100%*
1-Jul	Local Water Utility	100%	100%*
1-Jul	High Security (sub-categories)	100%	100%*
1-Jul	High Security	0.95 ML/unit share	0.95 ML/unit share
1-Jul	Supplementary (Lowbidgee)	1.00 ML/unit share	1.00 ML/unit share*
1-Jul	Supplementary	1.00 ML/unit share	1.00 ML/unit share*
1-Jul	General Security	0.35 ML/unit share	0.35 ML/unit share
1-Jul	Conveyance	0.35 ML/unit share	0.35 ML/unit share
1-Jul	Murrumbidgee Irrigation Conveyance	0.7654 ML/unit share	0.7654 ML/unit share
1-Jul	Coleambally Irrigation Conveyance	0.8585 ML/unit share	0.8585 ML/unit share
15-Jul	General Security	0.03 ML/unit share	0.38 ML/unit share
15-Jul	Conveyance	0.03 ML/unit share	0.38 ML/unit share
15-Jul	Murrumbidgee Irrigation Conveyance	0.0204 ML/unit share	0.7858 ML/unit share
15-Jul	Coleambally Irrigation Conveyance	0.0175 ML/unit share	0.8760 ML/unit share
15-Aug	General Security	0.03 ML/unit share	0.41 ML/unit share
15-Aug	Conveyance	0.03 ML/unit share	0.41 ML/unit share
15-Aug	Murrumbidgee Irrigation Conveyance	0.0204 ML/unit share	0.8062 ML/unit share
15-Aug	Coleambally Irrigation Conveyance	0.0136 ML/unit share	0.8896 ML/unit share
1-Sep	General Security	0.05 ML/unit share	0.46 ML/unit share
1-Sep	Conveyance	0.05 ML/unit share	0.46 ML/unit share
1-Sep	Murrumbidgee Irrigation Conveyance	0.0340 ML/unit share	0.8402 ML/unit share
1-Sep	Coleambally Irrigation Conveyance	0.0094 ML/unit share	0.8990 ML/unit share
15-Sep	General Security	0.01 ML/unit share	0.47 ML/unit share
15-Sep	Conveyance	0.01 ML/unit share	0.47 ML/unit share

Date	License Category	Increment	Total 2022/23
15-Sep	Murrumbidgee Irrigation Conveyance	0.0068 ML/unit share	0.8469 ML/unit share
15-Sep	Coleambally Irrigation Conveyance	0.0019 ML/unit share	0.9008 ML/unit share
4-Oct	General Security	0.03 ML/unit share	0.50 ML/unit share
4-Oct	Conveyance	0.03 ML/unit share	0.50 ML/unit share
4-Oct	Murrumbidgee Irrigation Conveyance	0.0204 ML/unit share	0.8674 ML/unit share
4-Oct	Coleambally Irrigation Conveyance	0.0056 ML/unit share	0.9065 ML/unit share
17-Oct	General Security	0.03 ML/unit share	0.53 ML/unit share
17-Oct	Conveyance	0.03 ML/unit share	0.53 ML/unit share
17-Oct	Murrumbidgee Irrigation Conveyance	0.0395 ML/unit share	0.9068 ML/unit share
17-Oct	Coleambally Irrigation Conveyance	0.0056 ML/unit share	0.9120 ML/unit share
1-Nov	General Security	0.01 ML/unit share	0.54 ML/unit share
1-Nov	Conveyance	0.01 ML/unit share	0.54 ML/unit share
1-Nov	Murrumbidgee Irrigation Conveyance	0.0132 ML/unit share	0.9200 ML/unit share
1-Nov	Coleambally Irrigation Conveyance	0.0019 ML/unit share	0.9139 ML/unit share
15-Nov	General Security	0.01 ML/unit share	0.55 ML/unit share
15-Nov	Conveyance	0.01 ML/unit share	0.55 ML/unit share
15-Nov	Murrumbidgee Irrigation Conveyance	0.0132 ML/unit share	0.9332 ML/unit share
15-Nov	Coleambally Irrigation Conveyance	0.0019 ML/unit share	0.9158 ML/unit share
1-Dec	General Security	0.05 ML/unit share	0.60 ML/unit share
1-Dec	Conveyance	0.05 ML/unit share	0.60 ML/unit share
1-Dec	Murrumbidgee Irrigation Conveyance	0.0658 ML/unit share	0.9990 ML/unit share
1-Dec	Coleambally Irrigation Conveyance	0.0094 ML/unit share	0.9252 ML/unit share

\* Maximum allowable

## Water Allocation Guide

The NSW Department of Planning and Environment – Water has produced a series of guides to describe the water allocation methods for most NSW regulated river systems. The guide for the Murrumbidgee regulated system is available at: [www.industry.nsw.gov.au/water/allocations-availability/allocations/how-water-is-allocated/resource-assessment-process](http://www.industry.nsw.gov.au/water/allocations-availability/allocations/how-water-is-allocated/resource-assessment-process)

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