

16 May 2022

Murrumbidgee Regulated River Water Source

Water allocation

Murrumbidgee regulated river water source allocations to general security licences reached full allocation of 100% of entitlement in November 2021. Under the water sharing plan rules, no further allocations are permitted this water year. However, since then, resources have continued to accrue in storage and will be used for opening allocations on 1 July 2022 for the 2022/23 water year.

This statement is the last statement of the 2021/22 water year. It provides a final outlook of opening water availability for 2022/23 prior to the commencement of the new water year. While the outlook is based on the current best available information, it is intended to be used as a guide only for water users to assist in their end-of-year decisions and should not be considered as guaranteed allocations. With uncertainty in weather patterns and water users' actions for the remainder of the water year, all outlooks should be used with caution and are subject to change.

Opening allocations will be announced on 1 July 2022 for the 2022/23 water year. After the announcement of opening allocations, fortnightly statements will be published commencing on 15 July 2022.

2021-22	High Security	General Security	Average Carryover
Murrumbidgee	100%	100% [#]	22% [#]

[#] Availability of allocation on individual licences is subject to account limits as per the rules in the water sharing plan.

Storage levels (as at 13 May 2022)

- Blowering Dam is about 98% full – stable – holding about 1,605,000 megalitres (ML).
- Burrinjuck Dam is about 91% full – stable – holding about 940,000 ML.

Seasonal climate outlook

The Bureau of Meteorology's seasonal outlook for June to August indicates that rainfall is likely to be above average across the catchment. Day time temperatures are likely to be above average in the Murrumbidgee and overnight temperatures are likely to be above average across the catchment.

The Bureau indicates that the 2021–22 La Niña persists, with outlooks forecasting a potential return to neutral El Niño–Southern Oscillation (ENSO) levels – neither La Niña nor El Niño – in early winter. The Indian Ocean Dipole (IOD) is neutral, however; outlooks indicative a negative IOD may develop in the coming months.

Further details at: www.bom.gov.au/climate/outlooks/#/overview/summary

Trade

The normal operating range for the Murrumbidgee Inter-Valley Trade (IVT) account is between 0 gegalitres (GL) and 100 GL, however; the use of tagged licences has pushed the balance outside of these limits. The account balance is currently about 125.5 GL. Trade **out** of the Murrumbidgee is **closed**, while trade **into** the Murrumbidgee Valley is **open** (as of 13 May 2022). Water users should

monitor the WaterNSW website (www.waternsw.com.au) for daily information about the IVT account balance, the status of trade, and other information including end of season trade closing dates.

IVT in 2022/23

The IVT balance, which is effectively Murray water waiting to be delivered from Murrumbidgee storages, was spilt in November 2021 when Murrumbidgee storages were spilling. This boosted resources in the Murrumbidgee when full allocation had already been reached in the NSW Murray. It is conceivable a similar situation could arise in the 2022/23 water year.

When water physically spills from Murrumbidgee storage (including pre-release for airspace), a decision must be made to spill or retain any IVT balance. Therefore, in general:

- A decision to spill the IVT balance is likely when Murrumbidgee general security allocations are significantly behind the NSW Murray, as it provides a boost to Murrumbidgee allocations.
- A decision to retain the IVT balance, despite a Murrumbidgee storage spill, is likely when Murrumbidgee allocations are similar or better than NSW Murray, as this prevents a loss of NSW Murray resource.

Conditions will be monitored closely and any decision to spill the IVT balance in 2022/23 will be communicated to water users and markets at least 10 days before the IVT account adjustment and any implications for trade.

No further spill to the IVT account will occur this water year (2021/22). The IVT account balance on 30 June 2022 will be carried forward unchanged on 1 July 2022 into the 2022/23 water year. Water users should monitor the WaterNSW website (www.waternsw.com.au) for information on end of season trade closing dates.

Next announcement

This is the final water allocation statement for the 2021/22 water year. Opening water allocations will be made on Friday 1 July 2022. Regular fortnightly statements for the regulated Murrumbidgee system will commence on Friday 15 July 2022.

Outlook for 2022-23

A water availability outlook for the start of the next water year (1 July 2022) is provided below. The outlook is indicative only, not guaranteed, and should be used with caution, particularly when projecting many months ahead. Nevertheless, it aims to help water users with their end of year water management decisions.

Key information

- This outlook for 1 July 2022 water availability is conservatively based on a recession of current flows to extreme dry (99th percentile) conditions from June 2022 to the end of 2022-23. The resulting indicative forecast general security allocations for September and November 2022 under a range of possible inflow scenarios are provided in the table below to assist water users to plan ahead.
- For context, the Murrumbidgee regulated system has experienced very wet conditions this water year. That is, based on long term inflow statistics, most years (about nine years in ten) would experience drier flow conditions than those experienced this year.
- The forecast information is not guaranteed and should be used at one's own risk.
- Although dry conditions are conservatively assumed, significant rainfall and more inflows appear likely and may occur at any time. Therefore, forecasts and allocations are minimums and will be promptly adjusted to reflect actual improvements in available resource.

- Due to wet conditions and low usage this water year, the maximum permissible carryover volume has been estimated for the 2022-23 water year. That is, it is assumed general security and Conveyance carryover will be around 30% of entitlement, some 680,000 ML.
- The undelivered IVT balance at the end of this water year (2021/22) will be carried over unchanged to the next water year (2022/23). The IVT balance is held in Murrumbidgee storages and is a callable resource available to the NSW Murray.
- If wet conditions persist, a situation similar to earlier this water year may arise where, due to full storages, allocations stall as there is no space available to capture new resource. Only when liabilities reduce through water usage, and that airspace is refilled, can allocations increase.
- Once the commencing allocations are announced on 1 July 2022, regular assessments will be undertaken and allocation announcements made fortnightly on the 1st and 15th of each month, or the following working day, as usual, until full allocations are achieved.

Indicative allocations on 1 July 2022 for 2022/23

- Full (100%) allocation can be expected for **towns, domestic** and **stock** access licences, and **sub-category high security** entitlements.
- Full allocations for **supplementary (including Lowbidgee)** access licence holders can be expected and take will be available subject to announced periods of supplementary access.
- Forecasts show likely 95% allocation for **high security** entitlements.
- Full **carryover** is expected to be deliverable, some 680,000 ML, on 1 July.
- **Conveyance** will be allocated in accordance with water sharing plan rules, commensurate with high security and general security allocations.
- Forecasts indicate sufficient resource to provide a likely commencing **general security** allocation of around 35% of entitlement.
- Water can be expected to be set aside for environmental requirements in accordance with the rules of the Murrumbidgee regulated rivers water sharing plan.

Chances of improvement

The chances of improved Murrumbidgee general security allocations after 1 July 2022, based on a repeat of historical inflows, are provided in the table below under a variety of conditions. The forecast is based on all available historical data, which gives a better outlook than using just the driest years on record (dry tercile).

It is important to note that these estimates are indicative improvements only and are not guaranteed allocations. Estimates are likely to change based on weather conditions, water user behaviour, water management decisions and other events. This means water users should use this information with caution and at their own risk, particularly as it projects many months ahead.

Forecast general security allocations (%)

(Any carryover water can be added to these indicative allocations)

Repeat of historical inflow conditions	1 Sept 2022	1 Nov 2022
99 chances in 100 (extreme dry) (99%)	35%	35%
9 chances in 10 (very dry) (90%)	38%	43%
3 chances in 4 (dry) (75%)	41%	51%

1 chance in 2 (median)	(50%)	41%*	52%*
1 chance in 4 (wet)	(25%)	41%*	52%*

Note 1: Estimated values indicative only, not guaranteed and subject to change based on actual events unfolding.

Note 2: Forecast assumes 30% carryover on average.

Note 3: If a decision to spill the IVT is made, the forecasts provided in the table above will likely improve by around 5% - 10%.

* Model indicates potential significant storage spills, limited capacity for resource improvement and constrained delivery from Blowering. High uncertainty exists and further allocation improvements in median and wet scenarios may be driven by water usage rather than inflows.

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