

## Water Balance Report - Murrumbidgee - 2019 - 2020

Water balance component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
<b>Storage Volume (1)</b>					
Volume in storage at start of year			1,072,085		
Volume in storage at end of year			1,419,212		
<b>Change in storage</b>			<b>347,127</b>	<b>21%</b>	<b>100%</b>
Storage net evaporation			8,217	0%	100%
<b>Inflows</b>					
Storage inflows	1,435,124				100%
Downstream tributaries (2)	254,259				100%
<b>Subtotal</b>	<b>1,689,383</b>	<b>100%</b>			<b>100%</b>
<b>Net water diverted under basic rights</b>					
Domestic and stock rights (3)			1,690		100%
Native title rights (3)			0		100%
<b>Subtotal</b>			<b>1,690</b>	<b>0%</b>	<b>100%</b>
<b>Net Water diverted under access licences</b>					
Domestic and stock			23,835		100%
High security			270,584		100%
General security			125,140		100%
Local water utility			8,453		100%
Major utility			0		100%
Supplementary water (4)			28,447		100%
Conveyance			83,750		100%
<b>Subtotal</b>			<b>540,208</b>	<b>32%</b>	<b>100%</b>
<b>Environmental water</b>					
Net Diversion to wetlands (5)			28,640		100%
End of System Flows (6)			466,543		100%
<b>Subtotal</b>			<b>495,183</b>	<b>29%</b>	<b>100%</b>
Other outflows			0	0%	100%
Unaccounted difference (7)			296,958	18%	99%
<b>Total</b>	<b>1,689,383</b>	<b>100%</b>	<b>1,689,383</b>	<b>100%</b>	

### Notes:

- Includes Burnjuck Dam, Blowering Dam, Berembed Weir, Bundidgerry Storage, Tombullen Storage, Gogelderie Weir, Hay Weir, Maude Weir and Redbank Weir.
- Downstream tributaries include gauged flows from Goobaragandra R, Jugiong Ck, Muttama Ck, Adjungbilly Ck, Adelong Ck, Tarcutta Ck, Kyemba Ck, Billabong Ck, and Finley Escape. Ungauged tributary inflows were estimated from the increase in the mass balance upstream of Wagga Wagga.
- These rights are not metered. Values presented are estimated based on recommended values provided in the Water Sharing Plan 2016.
- Includes Supplementary, Supplementary (Lowbidgee) category of licences and diversions debited as General Security - Uncontrolled Flow
- Includes EWA deliveries to CIA wetlands and Lowbidgee (North Caira, North Redbank)
- End of system flows include operational delivery for MDBA through Finley Escape, target flows, IVT delivery, and operational surplus at Balranald, Darlot and Warriston Weir. EoS flow corrected for extraction that occur downstream of Darlot and Balranald.
- Unaccounted difference is estimated as the difference between inflows, outflows and the change in storage. It includes river evaporation, seepage, net overbank flows, theft, measurement inaccuracies and other 'unknowns'.
- Planned Environmental Requirement were met 100% in 2019-20.