

Water Balance Report

Murrumbidgee Valley 2016 – 2017

Water balance component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
Storage Volume (1)					
Volume in storage at start of year			1,690,705		
Volume in storage at end of year			1,969,546		
Change in storage			278,841	5%	100%
Storage net evaporation (2)	16,413	0%			100%
Inflows					
Storage inflows	3,570,064				100%
Downstream tributaries (3)	2,514,390				100%
Subtotal	6,084,454	100%			100%
Net water diverted under basic rights					
Domestic and stock rights (4)			4,560		100%
Native title rights (4)			0		100%
Subtotal			4,560	0%	100%
Net Water diverted under access licences					
Domestic and stock			26,424		100%
High security			333,624		100%
General security			1,130,700		100%
Local water utility			8,706		100%
Major utility			0		100%
Supplementary water (5)			166,700		100%
Conveyance			262,492		100%
Subtotal			1,928,646	32%	100%
Environmental water					
Net Diversion to wetlands (6)			158,126		100%
End of System Flows (7)			2,557,319		100%
Subtotal			2,715,445	45%	100%
Other outflows			0	0%	100%
Unaccounted difference (8)			1,173,375	19%	99%
Total	6,100,867	100%	6,100,867	100%	

Notes:

1. Includes Burrinjuck Dam, Blowering Dam, Berembed Weir, Bundigerry Storage, Tombullen Storage, Gogelderie Weir, Hay Weir, Maude Weir, Redbank Weir.
2. Storage net evaporation is treated as inflows in the rainfall on the storage exceeds evaporation
3. Downstream tributaries include gauged flows from Goobaragandra R, Jugiong Ck, Muttama Ck, Adjunbilly Ck, Adelong Ck, Tarcutta Ck, Kyemba Ck, Billabong Ck, and Finley Escape. Ungauged tributary were estimated from the increase in the mass balance upstream of Wagga Wagga.
4. These rights are not metered. Values presented are estimated based on recommended values provided in the Water Sharing Plan.
5. Includes Supplementary, Supplementary (Lowbidgee) category of licences and diversions debited as General Security - Uncontrolled Flow
6. Includes EWA deliveries to Yanco Creek, MIA and CIA wetlands, Lowbidgee wetlands, Warriston, in-stream Blackwater event, and Native fish recruitment events
7. End of system flows include Balranald, Darlot and Warriston Weir including IVT water measured at Darlot and Balranald. EoS flow corrected for extraction that occur downstream of Darlot and Balranald and that eWater delivered for instream benefits in the regulated sections of the river.
8. 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'.
9. Planned Environmental Requirement were met 100% in 2016-17.