

Water Balance Report



Murrumbidgee Valley 2017 – 2018

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	1,969,546				
Volume in storage at end of year	1,543,382				
Change in storage	426,164	17%			100%
Storage net evaporation			5,556	0%	100%
Inflows					
Storage inflows	1,774,191				100%
Downstream tributaries (2)	353,288				100%
Subtotal	2,127,479	83%			100%
Net water diverted under basic rights					
Domestic and stock rights (3)			1,690		100%
Native title rights (3)			0		100%
Subtotal			1,690	0%	100%
Net Water diverted under access licences					
Domestic and stock			28,416		100%
High security			315,485		100%
General security			1,133,254		100%
Local water utility			8,233		100%
Major utility			0		100%
Supplementary water (4)			70,923		100%
Conveyance			260,068		100%
Subtotal			1,816,380	71%	100%
Environmental water					
Net Diversion to wetlands (5)			74,602		100%
End of System Flows (6)			432,384		100%
Subtotal			506,986	20%	100%
Other outflows			0	0%	100%
Unaccounted difference (7)			223,031	9%	99%
Total	2,553,643	100%	2,553,643	100%	

Notes:

1. Includes Burrinjuck Dam, Blowering Dam, Berembled Weir, Bundidgerry Storage, Tombullen Storage, Gogelderie Weir, Hay Weir, Maude Weir and Redbank Weir.
2. 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 were estimated from the increase in the mass balance upstream of Wagga Wagga.
3. These rights are not metered. Values presented are estimated based on recommended values provided in the Water Sharing Plan 2016.
4. Includes Supplementary, Supplementary (Lowbidgee) category of licences and diversions debited as General Security - Uncontrolled Flow
5. Includes EWA deliveries to CIA wetlands and Wetland reconnection river fresh events
6. End of system flows include Balranald, Darlot and Warriston Weir. 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.
7. 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'.
8. Planned Environmental Requirement were met 100% in 2017-18.