

Water Balance Report

Murrumbidgee Valley 2015 – 2016

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			1,017,303		
Volume in storage at end of year			1,673,294		
Change in storage			655,991	21%	100%
Storage net evaporation (2)	859	0%			100%
Inflows					
Storage inflows	2,655,892				100%
Downstream tributaries (3)	481,654				100%
Subtotal	3,137,546	100%			100%
Net water diverted under basic rights					
Domestic and stock rights (4)			4,560		0%
Native title rights (4)			0		0%
Subtotal			4,560	0%	0%
Net Water diverted under access					
Domestic and stock			28,503		100%
High security			278,009		100%
General security			561,946		100%
Local water utility			12,774		100%
Major utility			0		100%
Supplementary water (5)			238,677		100%
Conveyance			250,580		100%
Subtotal			1,370,490	44%	100%
Environmental water					
Net Diversion to wetlands (6)			103,613		100%
End of System Flows (7)			710,471		100%
Subtotal			814,084	26%	100%
Other outflows			0	0%	100%
Unaccounted difference (8)			293,280	9%	99%
Total	3,138,405	100%	3,138,405	100%	

Notes:

1. Includes Burrinjuck Dam, Blowering Dam, Berembed Weir, Bundidgerry Storage, Tombullen Storage, Gogelderie Weir, Hay Weir, Maude Weir, Redbank Weir.
2. Storage net evaporation is treated as inflows
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.
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 accounted as non-debit General Security - Uncontrolled Flow diversions
6. Includes EWA deliveries to Yanco Creek, Oak Creek, Coonancoobail Lagoon, MIA and CIA wetlands and Lowbidgee wetlands
7. End of system flows include Balranald, Darlot and Warriston Weir including EWA and IVT water measured at Balranald. EoS flow corrected for extraction that occur downstream of Darlot and Balranald.
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 in accuracies and other 'unknowns'.
9. Planned Environmental Requirement were met 100% in 2015-16.