

Water Balance Report

Murrumbidgee Valley 2013 – 2014

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			1,602,043		
Volume in storage at end of year			1,681,535		
Change in storage			79,492	2%	100%
Storage net evaporation			3,614	0%	100%
Inflows					
Storage inflows	2,096,532	74%			100%
Downstream tributaries (2)	719,424	26%			100%
Subtotal	2,815,956	100%			100%
Net water diverted under riparian rights					
Domestic and stock rights (3)			4,560	0%	0%
Native title rights (3)			0	0%	0%
Subtotal			4,560	0%	0%
Net Water diverted under access licences					
Domestic and stock			29,991	1%	100%
High security			326,059	12%	100%
General security			911,191	32%	100%
Local water utility			10,473	0%	100%
Major utility			0	0%	100%
Supplementary water (4)			154,311	5%	100%
Conveyance			258,452	9%	100%
Subtotal			1,690,475	60%	100%
Environmental water					
Net diversions to wetlands (5)			106,403	4%	100%
End of system flows (6)			443,990	16%	100%
Subtotal			550,393	20%	100%
Other outflows (7)			0	0%	100%
Unaccounted difference (8)			487,422	17%	99%
Total	2,815,956		2,815,956	100%	99%

Notes:

1. Includes Burrinjuck Dam, Blowering Dam, Berembed Weir, Bundidgerry Storage, Tombullen Storage, Gogelderie Weir, Hay Weir, Maude Weir, 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, Hillas Ck and Finley Escape. Ungauged tributary were estimated from the increase in the mass balance.
3. These rights are not metered. Values presented are estimated based on recommended values provided in the Water Sharing Plan.
4. Includes Supplementary, Supplementary (Lowbidgee) category of licences and diversions debited as General Security - Uncontrolled Flow
5. Includes EWA deliveries to Paika Lake, Oak Creek, Coonancoobail Lagoon, Tuckerbill Swamp and Lowbidgee wetlands

6. 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
7. Other outflows include flows to Lowbidgee before Supplementary Licences were issued, excluding those flows reported in Net diversions to wetlands' including EWA deliveries.
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 2013-14.