

Water Balance Report

Murrumbidgee Valley 2012 – 2013

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	2,532,039				
Volume in storage at end of year	1,602,043				
Change in storage	929,996	22%			100%
Storage net evaporation			13,699	0%	100%
Inflows					
Storage inflows	2,361,595				100%
Downstream tributaries (2)	982,969				100%
Subtotal	3,344,564	78%			100%
Net water diverted under riparian rights					
Domestic and stock rights (3)			4,560		0%
Native title rights (3)			0		0%
Subtotal			4,560	0%	0%
Net Water diverted under access licences					
Domestic and stock			28,659		100%
High security			356,681		100%
General security			1,417,269		100%
Local water utility			10,331		100%
Major utility			0		100%
Supplementary water (4)			250,365		100%
Conveyance			305,997		100%
Subtotal			2,369,302	55%	100%
Environmental water					
Net diversions to wetlands (5)			33,175		100%
End of system flows (6)			1,416,132		100%
Subtotal			1,449,307	34%	100%
Other outflows (7)			165,074	4%	100%
Unaccounted difference (8)			272,618	6%	99%
Total	4,274,560	100%	4,274,560	100%	

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 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 (Lowbidgee) category of licences
5. Includes deliveries to Paika Lake, Oak Creek, Coonancoobail Lagoon, Tuckerbill Swamp and Telephone Bank
6. End of system flows include Balranald, Darlot and Warriston Weir including EWA and IVT water measured at 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 (excluding channel storage). It includes river evaporation, seepage, net overbank flows, theft, measurement inaccuracies and other 'unknowns'.