

Macquarie Valley Draft Water Balance 2008/09

Water Balance Component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
Storage Volume					
Volume in storage at start of year	326,315				100%
Volume in storage at end of year	335,405				100%
Change in storage			9,090	4%	100%
Storage net evaporation			22,599	9%	100%
Inflows					
Storage inflows	216,931	88%			100%
Downstream tributaries (1)	29,347	12%			100%
Subtotal	246,278	100%			100%
Net water diverted under water rights (2)					
Domestic and stock rights			1,200	0%	0%
Native title rights			-	0%	0%
Subtotal			1,200	0%	0%
Net water diverted under access licences					
Domestic and stock			1,873	1%	100%
High security			12,313	5%	100%
General security			39,170	16%	100%
Local water utility			12,623	5%	100%
Major water utility			n/a		
Supplementary water			0	0%	100%
Conveyance			n/a		
Subtotal			65,979	27%	100%
Environmental water					
Net diversion to wetlands (3)			35,087	14%	100%
End of system flows (4)			3,260	1%	100%
Subtotal			38,347	16%	100%
Other Outflows (5)			7,833	3%	100%
Unaccounted difference (6)			101,230	41%	99%
TOTAL	246,278	100%	246,278	100%	99%
Notes:					
(1) Downstream tributaries include the Bell R, Little R and Talbragar R. Ungauged tributaries were estimated from the increase in mass balance between Burrendong Dam and Barooka.					
(2) Water rights are not metered. Values presented are estimated from recommended values as specified in the Water Sharing Plan					
(3) The net diversion to wetlands include the flows into wetlands due to unregulated tributary flows, operational surplus, floods and rain rejections. This includes a net 21,154ML delivered to the wetlands while targeting the lower Macquarie Stock and Domestic replenishment.					
(4) End of system flows measured at Miltara					
(5) Other outflows - Marra Ck (6,875ML) and Lower Bogan through Albert Priest Channel (958ML).					
(6) Unaccounted difference is estimated as the difference between inflows, outflows and change in storage. This includes river evaporation, evapotranspiration, seepage, overbank flows and any measurement errors recording other components.					
(7) All the above figures are based on operational data used by State Water and are not quality coded. Archived data may differ from the operational data due to changes in the rating tables.					
(8) The above water balance for Macquarie Valley includes Burrendong and Windamere storages within the area covered by the Water Sharing Plan for the Macquarie-Cudgong Regulated Rivers water source.					