

Macquarie Valley Water Balance 2007/08

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	214,758				100%
Volume in storage at end of year	326,315				100%
Change in storage			111,557	36%	100%
Storage net evaporation			19,219	6%	100%
Inflows					
Storage inflows	261,514	83%			100%
Downstream tributaries (1)	52,544	17%			100%
Subtotal	314,058	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			1,160	0%	100%
High security			8,320	3%	100%
General security			8,493	3%	100%
Local water utility			11,856	4%	100%
Major water utility			n/a		
Supplementary water			1,038	0%	100%
Conveyance			n/a		
Subtotal			30,867	10%	100%
Environmental water					
Net diversion to wetlands (3)			65,365	21%	100%
End of system flows (4)			2,170	1%	100%
Subtotal			67,535	22%	100%
Other Outflows (5)			7,615	2%	100%
Unaccounted difference (6)			76,065	24%	99%
TOTAL	314,058	100%	314,058	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 2,388ML delivered to the wetlands while targetting the lower Macquarie Stock and Domestic replenishment.

(4) End of system flows measured at Miltara

(5) Other outflows - Replenishment flows to Gum Cowal (5865ML), Upper Beleringar Ck (200ML), Marra Ck (200ML) and Lower Bogan through Gunningbar Ck (1,350ML).

(6) Unaccounted difference is estimated as the difference between inflows, outflows and change in storage. This includes river evaporation, 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-Cudgegong Regulated Rivers water source.