Macquarie Valley Water Balance 2006/07

Water Balance Component 2006-07	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	459,873				100%
Volume in storage at end of year	214,758				100%
Change in storage	**245,115**	**59%**			100%
Storage net evaporation			**26,198**	**6%**	100%
Inflows					
Storage inflows	133,663	32%			100%
Downstream tributaries (1)	39,937	10%			100%
Subtotal	**173,600**	**41%**			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			2,363	1%	100%
High security			15,526	4%	100%
General security			165,679	40%	100%
Local water utility			16,386	4%	100%
Major water utility			n/a		
Supplementary water			4,792	1%	100%
Conveyance			n/a		
Subtotal			**204,745**	**49%**	100%
Environmental water					
Net diversion to wetlands (3)			47,031	11%	100%
End of system flows (4)			2,616	1%	100%
Subtotal			**49,647**	**12%**	100%
Other Outflows (5)			**7,025**	**2%**	100%
Unaccounted difference (6)			**129,900**	**31%**	99%
TOTAL	**418,715**	**100%**	**418,715**	**100%**	**99%**

Notes:

(1) Downstream tributaries includethe Bell R, Little R and Talbragar R. Ungauged tributaries were estimated from the increase in mass balance between Burrendong Dam and Baroona.

(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 8,599ML delivered to the wetlands while targetting the lower Macquarie Stock and Domestic replenishment. This figure also includes 3,481ML delivered into Gum Cowal during June 2007.

(4) End of system flows measured at Miltara

(5) Other outflows - Replenishment flows to Bogan R below Nyngan (600ML), Beleringar Ck downstream of the Albert Priest Channel (1000ML), Marra Ck (1425ML), Reddenville Break (1200ML), lower Bogan R (800ML in Jan 07, 2000ML in June 07).

(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.