

## Macquarie Valley Water Balance - 2009/10



Water Balance Component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
<b>Storage Volume</b>					
Volume in storage at start of year	335,405				100%
Volume in storage at end of year	264,012				100%
<b>Change in storage</b>	<b>71,393</b>	<b>22%</b>		<b>0%</b>	100%
<b>Storage net evaporation</b>			<b>17,534</b>	<b>5%</b>	100%
<b>Inflows</b>					
Storage inflows	145,068	45%			100%
Downstream tributaries (1)	107,411	33%			100%
<b>Subtotal</b>	<b>252,479</b>	<b>78%</b>			100%
<b>Net water diverted under water rights (2)</b>					
Domestic and stock rights			1,200	0%	0%
Native title rights			0	0%	0%
<b>Subtotal</b>			<b>1,200</b>	<b>0.4%</b>	0%
<b>Net water diverted under access licences</b>					
Domestic and stock			1,014	0%	100%
High security			9,132	3%	100%
General security			39,715	12%	100%
Local water utility			10,484	3%	100%
Major water utility			n/a		
Supplementary water			11,620	4%	100%
Conveyance			n/a		
<b>Subtotal</b>			<b>71,965</b>	<b>22%</b>	100%
<b>Environmental water</b>					
Net diversion to wetlands (3)			93,160	29%	100%
End of system flows (4)			8,675	3%	100%
<b>Subtotal</b>			<b>101,835</b>	<b>31%</b>	100%
<b>Other Outflows (5)</b>			<b>7,961</b>	<b>2%</b>	100%
<b>Unaccounted difference (6)</b>			<b>123,377</b>	<b>38%</b>	
<b>TOTAL</b>	<b>323,872</b>	<b>100%</b>	<b>323,872</b>	<b>100%</b>	

### 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 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 21,154ML delivered to the wetlands while targetting 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-Cudgegong Regulated Rivers water source.