

Lachlan 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	131,251				100%
Volume in storage at end of year	138,540				100%
Change in storage			7,289		100%
Storage net evaporation (1)			29,968	16%	100%
Inflows					
Storage inflows	153,483	80%			100%
Downstream tributaries (2)	37,216	20%			100%
Subtotal	190,699	100%			100%
Net water diverted under water rights (3)					
Domestic and stock rights			4,211	2%	0%
Native title rights			0	0%	0%
Subtotal			4,211	2%	0%
Net water diverted under access licences					
Domestic and stock			4,605	2%	100%
High security			7,156	4%	100%
General security			7,772	4%	100%
Local water utility			7,436	4%	100%
Major water utility			0	0%	
Supplementary water			0	0%	
Conveyance			892	0%	100%
Subtotal			27,861	15%	100%
Environmental water					
Net diversion to wetlands			7,000	4%	100%
End of system flows (4)			11,959	6%	100%
Subtotal			18,959	10%	100%
Other Outflows (5)			8,757	5%	100%
Unaccounted difference (6)			93,654	49%	
TOTAL	190,699	100%	190,699	100%	

Notes

(1) The evaporation figure includes net evaporation loss from Wyangala Dam and Lake Cargelligo. (Lake Brewster remained empty).

(2) Downstream tributaries include Boorowa R and Belubula R. Ungauged tributaries were estimated from the increase in mass balance between Wyangala Dam and Forbes.

(3) Water rights are not metered. Values presented are as specified in Water Sharing Plan.

(4) End of system flows at Booligal, above water orders and flow at the homestead on Willandra Ck.

(5) Other outflows - Replenishment flow into Booberoi Creek (3311ML), and Merrimajeel/Muggabah Creeks (5446ML). There was no flow to Willandra Creek below Homestead and Merrowie Ck.

(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. This also includes the delivery losses in the regulated section of Willandra Ck.

(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 Lachlan Valley includes Wyangala, Lake Cargelligo and Lake Brewster storages within the area covered by the Water Sharing Plan for the Lachlan Regulated River water source.