

Lachlan Valley 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	138,540				100%
Volume in storage at end of year	81,680				100%
Change in storage	56,860	30%			100%
Storage net evaporation (1)			27,618	14%	100%
Inflows					
Storage inflows	119,909	63%			100%
Downstream tributaries (2)	14,001	7%			100%
Subtotal	133,910	70%			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			4,005	2%	100%
High security			5,826	3%	100%
General security			4,348	2%	100%
Local water utility			7,760	4%	100%
Major water utility			0	0%	
Supplementary water			0	0%	
Conveyance			46	0%	100%
Subtotal			21,984	12%	100%
Environmental water					
Net diversion to wetlands			0	0%	100%
End of system flows (4)			15,117	8%	100%
Subtotal			15,117	8%	100%
Other Outflows (5)			6,212	3%	100%
Unaccounted difference (6)			115,627	61%	
TOTAL	190,770	100%	190,770	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.