

Lachlan 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	
Storage Volume					
Volume in storage at start of year			81,680		100%
Volume in storage at end of year			107,959		100%
Change in storage	0	0%	26,279	14%	100%
Storage net evaporation (1)			18,731	10%	100%
Inflows					
Storage inflows	110,528	59%			100%
Downstream tributaries (2)	25,355	14%			100%
Local storm run-off around Condobolin (3)	50,500				
Subtotal	186,383	100%			100%
Net water diverted under water rights (4)					
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			494	0%	100%
High security			1,800	1%	100%
General security (5)			668	0%	100%
Local water utility			6,035	3%	100%
Major water utility			0	0%	
Supplementary water			0	0%	
Conveyance			0	0%	100%
Subtotal			8,997	5%	100%
Environmental water					
Net diversion to wetlands			0	0%	100%
End of system flows (6)			22,279	12%	100%
Subtotal			22,279	12%	100%
Other Outflows (7)			0	0%	100%
Unaccounted difference (8)			105,886	57%	
TOTAL	186,383	100%	186,383	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) Run-off from local storms around Condobolin produced a total flow of about 50,500ML at Condobolin gauge

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

(5) Nil allocation to GS entitlements. Usage is from traded in water.

(6) End of system flows at Booligal, above water used and flow (OML) at the homestead on Willandra Ck.

(7) Other outflows - Replenishment flow into Booberoi Creek (OML), Merrowie Ck (OML) and Merrimajeel/Muggabah Creeks (OML). There was no flow to Willandra Creek below Homestead. Booberoi Creek received flows from storm run-off in February 2010 and as it was not regulated not accounted here.

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

(9) 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.

(10) 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.