Lachlan Valley Water Balance 2005-06

State water

Water balance component	Sources of water Volume (ML)	% of total	Distribution of water Volume (ML)	% of total	% of volume measured
Storage volume					
Volume in storage at start of year			92,175		
Volume in storage at end of year			269,530		
Change in storage			**177,355**	**29%**	100%
Storage net evaporation (1)			**76,124**	**13%**	100%
Inflows					
Storage inflows	387,810	64%			100%
Downstream tributaries (2)	220,334	36%			100%
Subtotal	**608,144**	**100%**			100%
Net Water diverted under water rights					
Domestic and stock rights (3)			4,211	1%	0%
Native title rights (3)			-	0%	0%
Subtotal			**4,211**	**1%**	0%
Net Water diverted under access licences					
Domestic and stock			7,968	1%	100%
High security			10,665	2%	100%
General security			70,448	12%	100%
Local water utility			7,960	1%	100%
Major water utility			-		100%
Supplementary water			-		100%
Conveyance			12,809	2%	100%
Subtotal			**109,850**	**18%**	100%
Environmental water					
Net diversions to wetlands			37,170	6%	100%
End of system flows (4)			18,480	3%	100%
Subtotal			**55,650**		100%
Other outflows (5)			**36,121**	**6%**	100%
Unaccounted difference (6)			**149,081**	**25%**	99%
TOTAL	**608,144**	**100%**	**608,144**	**100%**	99%

Notes

(1) Storage evaporation measured at Wyangala Dam, Lake Cargelligo and Lake Brewster

(2) Downstream tributaries include gauged flows from the 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 estimated from recommended values provided in the Water Sharing Plan.

(4) End of system flows include flows at Willandra Homestead except during annual replenishment flows and flows at Booligal over and above water orders (except during environmental flows)

(5) Other outflows - Replenishment flow into Willandra creek, Merrowie Ck, Merrimajeel and Muggabah Ck, and Booberoi Creek.

(6) Unaccounted difference is estimated as the difference between inflows, outflows and change in storage. This includes river evaporation, seepage, overbank flows, theft and any measurement errors recording other components.