

Water Balance Report

Murray Lower Darling 2011 – 2012

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			3,808,420		
Volume in storage at end of year			4,295,770		
Change in storage			487,350	6%	100%
Storage net evaporation			299,800	3%	100%
Inflows					
Storage inflows	5,206,972	60%			100%
Downstream tributaries (1)	3,424,740	40%			100%
Subtotal	8,631,712	100%			100%
Net water diverted under riparian rights					
Domestic and stock rights (2)			5,845	0.1%	
Native title rights (2)			-	0.0%	
Subtotal			5,845	0.1%	
Net water diverted under access licences					
Domestic and stock			10,252	0.1%	100%
High security			95,360	1.1%	100%
General security			983,082	11.4%	100%
Local water utility			16,769	0.2%	100%
Major water utility			-	0.0%	100%
Supplementary water			141,289	1.6%	100%
Conveyance			422,818	4.9%	100%
Subtotal			1,669,570	19.0%	
Environmental water					
Net diversions to wetlands			138,050	1.6%	
End of system flows (3)			5,125,234	59.4%	
Subtotal			5,263,284	61.0%	
Other outflows					
Unaccounted difference (4)			905,862	10%	
Total	8,631,712	100%	8,631,712	100%	

Notes:

1. Downstream tributaries include gauged flows from the Keiwa R (NSW share), Murrumbidgee R and Billabong Ck
2. Basic Water Right extractions are not metered. Values presented are estimated from recommended values provided in the Water Sharing Plan (Murray 2,118 ML; Lower Darling 3727 ML).
3. End of system flow is the NSW share of the flow across the South Australian border after adjustment for water trades. Surplus flow is assumed to be a 50% contribution by NSW.
4. 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.