

## Water Balance Report - Lachlan Valley 2019 - 2020

Water Balance Component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
<b>Storage Volume</b>					
Volume in storage at start of year	344,008				100%
Volume in storage at end of year	276,254				100%
Change in storage	67,754	24%			100%
Storage net evaporation (1)			25,704	9%	100%
<b>Inflows</b>					
Storage inflows	137,928	49%			100%
Downstream tributaries (2)	76,846	27%			100%
<b>Subtotal</b>	<b>214,774</b>	<b>76%</b>			<b>100%</b>
<b>Net water diverted under water rights (3)</b>					
Domestic and stock rights			4,211	1.5%	0%
Native title rights			0	0%	0%
<b>Subtotal</b>			<b>4,211</b>	<b>1.5%</b>	<b>0%</b>
<b>Net water diverted under access licences</b>					
Domestic and stock			4,699	1.7%	100%
High security (4)			46,515	16%	100%
General security			32,536	12%	100%
Local water utility			7,572	2.7%	100%
Major water utility (5)			0	0%	
Supplementary water			0	0%	
Conveyance			6,853	2%	100%
<b>Subtotal (6)</b>			<b>98,174</b>	<b>35%</b>	<b>100%</b>
<b>Environmental water</b>					
Net planned diversion to wetlands (7)			1,329	0%	100%
End of system flows (8)			8,534	3%	100%
<b>Subtotal</b>			<b>9,863</b>	<b>3%</b>	<b>100%</b>
Other Outflows (9)			17,946	6%	100%
Unaccounted difference (10)			126,630	45%	
<b>Total</b>	<b>282,528</b>	<b>100%</b>	<b>282,528</b>	<b>100%</b>	

### Notes:

(1) The evaporation figure includes net evaporation loss from Wyangala Dam, Lake Cargeligo and Lake Brewster.

(2) Downstream tributaries include Boorowa R and Belubula R and Ungauged tributary flows. Total measured and estimated discharges were around 76,846ML.

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

(4) Includes trading of allocations from General Security to high security licences including environmental licences.

(5) There are no Major Water Utility or Supplementary licences in Lachlan

(6) About 30,884 ML of usage by environmental licences held by State and Commonwealth are included in the total extraction.

(7) Planned environmental water delivery requirements were met 100% in 2019-20. There was no translucent event triggered in 19-20. A total of 1,329 ML of WQA was

(8) Net flows in Wilandra Ck at the homestead and at Boolgal Weir over and above water extracted downstream are accounted as end of system flows. Flows

(9) Other outflows - Stock and domestic flows delivered into Booberoi Ck (5,533ML), Wilandra Ck (6,235 ML), Merrowie Ck(1,331 ML) and Merrimajee and Muggabah

(10) Unaccounted difference is estimated as the difference between inflows, outflows and change in channel storage. This includes river evaporation,

changes in the rating tables. There are some missing data due to instrument faults and have been filled by estimates.

the Lachlan Regulated River water source.