

Water Balance Report - Gwydir Valley 2019 - 2020

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			139,973		
Volume in storage at end of year			198,272		
Change in storage			58,299	29%	100%
Storage net evaporation			8,656	4%	100%
Inflows					
Storage Inflows	112,372	55%			100%
Downstream tributaries (1)	90,600	45%			85%
Subtotal	202,972	100%			95%
Net Water diverted under water rights					
Domestic and stock rights (2)			6,000	3%	0%
Native title rights (2)			-	0%	0%
Subtotal			6,000	3%	0%
Net Water diverted under access licences					
Domestic and stock			787	0%	100%
High security			10,615	5%	100%
General security			6,382	3%	100%
Local water utility			2,974	1%	100%
Major water utility			-	0%	100%
Supplementary water			19,559	10%	100%
Subtotal			40,317	20%	100%
Environmental water					
ECA ordered water (3)			5,228	3%	100%
Flows to wetlands via Gingham Channel			21,876	11%	
Flow to wetlands via Gwydir River			13,766	7%	
Net diversions to wetlands (4)			35,642	18%	100%
End of system flows (5)			52,145	26%	100%
Subtotal			87,787	43%	100%
Other outflows (6)			1,595	1%	100%
Unaccounted difference (7)			318	0%	n/a
Total	202,972	100%	202,972	100%	95%

Notes

(1) Tributary inflow consists of 3t inflow (Myall, Molroy and Horton), Gil Gil inflow measured at Boolataroo and positive AUD's from major inflow sections in CAIRO

(2) Water rights are not metered. Values presented are estimated from recommended values provided by NOW or as specified in Water Sharing Plans.

(3) ECA and entitlement ordered water is not included in the flows to wetlands totals

(4) Net diversions to wetlands do not include any ordered environmental water from ECA, general security or supplementary access licences. Commonwealth and state environmental orders are included under Net Water diverted under access licences.

(5) End of system flows are measured at the Mehi River at Collarenebri and Gil Gil Creek at Galloway

(6) Other outflows consist of replenishment flows to Thalaba Creek, Ballinboora Creek and Mallowa Creek

(7) 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.