

Water Balance Report

Gwydir Valley 2014 – 2015

Water balance component	Sources of water		Distribution of water		% of volume measured
	Volume (ML)	% of total	Volume (ML)	% of total	
Storage Volume (1)					
Volume in storage at start of year	463,634				
Volume in storage at end of year	266,929				
Change in storage	196,705	59%			100%
Storage net evaporation			7,561	2%	100%
Inflows					
Storage inflows	63,869	19%			100%
Downstream tributaries (2)	71,019	21%			85%
Subtotal	134,888	41%			95%
Net water diverted under riparian rights					
Domestic and stock rights (3)			6,000	2%	0%
Native title rights (3)			-	0%	0%
Subtotal			6,000	2%	0%
Net Water diverted under access licences					
Domestic and stock			1,341	0%	100%
High security			7,230	2%	100%
General security			136,942	41%	100%
Local water utility			2,287	1%	100%
Major utility			-	0%	100%
Supplementary water			5,399	2%	10%
Subtotal			153,200	46%	100%
Environmental water					
Net diversions to wetlands (4)			42,526	13%	100%
End of system flows (5)			54,188	16%	100%
Subtotal			96,714	29%	100%
Other outflows (6)			6,346	2%	100%
Unaccounted difference (7)			61,773	19%	N/A
Total	331,593	100	331,593	100%	95%

Notes:

(1) Storage volume include Copeton dam and Tareelario weir

(2) 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

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

(4) Environmental water delivery requirements were met 100% of the time throughout 2014/15. Net diversions to wetlands do not include any ordered environmental water from ECA, general security or supplementary access licences, these 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.