

Gwydir Valley Water Balances - 2009/10

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	174,849				
Volume in storage at end of year	100,588				
Change in storage	74,261	58%			100%
Storage net evaporation			8,541	7%	100%
Inflows					
Storage Inflows	29,974	23%			100%
Downstream tributaries (1)	24,498	19%			85%
Subtotal	54,472	42%			95%
Net Water diverted under water rights					
Domestic and stock rights (2)			6,000	5%	0%
Native title rights (2)			-	0%	0%
Subtotal			6,000	5%	0%
Net Water diverted under access licences					
Domestic and stock			1,315	1%	100%
High security			9,184	7%	100%
General security			28,489	22%	100%
Local water utility			2,446	2%	100%
Major water utility			-	0%	100%
Supplementary water			5,526	4%	100%
Subtotal			46,960	36%	100%
Environmental water					
ECA ordered water (3)			-	0%	100%
Flows to wetlands via Gingham Channel			6,818		
Flow to wetlands via Gwydir River			1,551		
Net diversions to wetlands			8,369	7%	100%
End of system flows (4)			4,923	4%	100%
Subtotal			13,292	10%	100%
Other outflows (5)			16,029	12%	100%
Unaccounted difference (6)			37,911	29%	n/a
TOTAL	128,733	100%	128,733	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 DNR or as specified in Water Sharing Plans.

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

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

(5) Other outflows consist of Thalaba Creek, Ballinboora Creek and Mallowa 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.