

Water Balance Report

Hunter River 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	967,482				
Volume in storage at end of year	1028,260				
Change in storage	-	0%	60,778	5%	100%
Barnard Reserve (4)	-	0%	-	0%	100%
Spills			61,243		100%
Storage net evaporation			30,016	2%	100%
Inflows					
Storage inflows (1)	303,515	25%			100%
Downstream tributaries (2)	977,226	75%			50%
Subtotal	1,280,740	100%			
Net water diverted under riparian rights					
Domestic and stock rights (3)			5,400	0%	0%
Native title rights			-	0%	
Subtotal			5,400	0%	
Net Water diverted under access licences					
Domestic and stock			303	0%	100%
High security			4,519	0%	100%
General security			13,525	1%	100%
Local water utility			5,639	0%	100%
Major utility			10,609	1%	100%
Major utility (dilution)			(21442)	0%	100%
Supplementary water			56,616	4%	100%
Barnard Reserve (dilution)			(40482)	0%	100%
Subtotal			152,775	12%	100%
Environmental water					
Net diversions to wetlands			38,108	3%	100%
End of water source flows (5)			993,663	78%	90%
Subtotal			1,031,771	81%	
Other outflows					
Other outflows					
Unaccounted difference (6)				0%	
Total	1,280,740	100%	1,280,740	100%	

Notes:

1. Calculated from Glenbawn and Glennies Creek Dams evaporation and releases, less storage drawdown and Barnard Reserve inflows.
2. Downstream tributaries - assessed by mass balance at Greta - 793,410
3. Basic rights are not metered. Values presented are those in the Water
4. Barnard Reserve accumulates from an inter valley physical transfer. Volume for 2011-12 only.
5. Gauged at Greta (not the end) - flows greater than environmental target are provided
6. All unaccounted source flows included in tributary inflows

The actual combined dam regulated and spill releases were 151,477

Note: Controlled releases for salinity dilution in July, August, September and February

Note: Dilution flows were released from the dams, but not extracted and hence contributed to end of system flows