

# Water Balance Report

## Hunter River 2012 – 2013

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	1,300,494				
Volume in storage at end of year	1,010,382				
<b>Change in storage</b>	<b>290,112</b>	<b>32%</b>			<b>100%</b>
<b>Storage net evaporation</b>			<b>21,716</b>	<b>2%</b>	<b>100%</b>
<b>Inflows</b>					
Storage inflows	136,457	15%			100%
Downstream tributaries (1)	484,567	53%			85%
<b>Subtotal</b>	<b>621,024</b>	<b>68%</b>			<b>95%</b>
<b>Net water diverted under riparian rights</b>					
Domestic and stock rights (2)			6,000	1%	0%
Native title rights (2)			-	0%	0%
<b>Subtotal</b>			<b>6,000</b>	<b>1%</b>	<b>0%</b>
<b>Net Water diverted under access licences</b>					
Domestic and stock			715	0%	100%
High security			9,570	1%	100%
General security			298,679	33%	100%
Local water utility			3,018	0%	100%
Major utility			-	0%	100%
Supplementary water			116,718	13%	100%
<b>Subtotal</b>			<b>428,699</b>	<b>47%</b>	<b>100%</b>
<b>Environmental water</b>					
ECA order water (3)			3,074	0%	100%
Flows to wetlands via Gingham Channel			165,502	18%	
Flow to wetlands via Gwydir River			29,825	3%	
Net diversions to wetlands (4)			195,327	21%	100%
End of system flows (5)			135,510	15%	100%
<b>Subtotal</b>			<b>330,837</b>	<b>36%</b>	<b>100%</b>
<b>Other outflows (6)</b>			<b>8,680</b>	<b>1%</b>	<b>100%</b>
<b>Unaccounted difference (7)</b>			<b>115,205</b>	<b>13%</b>	<b>n/a</b>
<b>Total</b>	<b>911,136</b>	<b>100%</b>	<b>911,136</b>	<b>100%</b>	<b>95%</b>

### 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 - recorded trib flows were 631,635
3. Basic rights are not metered. Values presented are those in the Water Sharing Plan.
4. Barnard Reserve accumulates from an inter valley physical transfer. Total Barnard Reserve at end of month 0 Volume for 2012-13 only.
5. Gauged at Greta (not the end) - flows greater than environmental target are provided.
6. All unaccounted source flows included in tributary inflows.