

# Water Balance Report

## Namoi River 2011 – 2012

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			500,087		
Volume in storage at end of year			755,781		
<b>Change in storage</b>			<b>255,694</b>	<b>11%</b>	100%
<b>Storage net evaporation</b>			<b>8,945</b>	<b>0%</b>	100%
<b>Inflows</b>					
Storage inflows	720,461	31%			100%
Downstream tributaries (1)	1,604,626	69%			85%
<b>Subtotal</b>	<b>2,325,087</b>	<b>100%</b>			95%
<b>Net water diverted under water rights</b>					
Domestic and stock rights (2)			1,936	0%	0%
Native title rights (2)			-	0%	0%
<b>Subtotal</b>			<b>1,936</b>	<b>0%</b>	0%
<b>Net Water diverted under access licences</b>					
Domestic and stock			495	0%	100%
High security			711	0%	100%
General security			66,640	3%	100%
Local water utility			605	0%	100%
Major water utility			-	0%	100%
Supplementary water			59,858	3%	100%
<b>Subtotal</b>			<b>128,309</b>	<b>6%</b>	100%
<b>Environmental water</b>					
End of system flows (3)			1,394,030	60%	100%
<b>Subtotal</b>			<b>1,394,030</b>	<b>60%</b>	100%
<b>Other outflows (4)</b>			2,538	0%	
<b>Unaccounted difference (5)</b>			533,635	23%	n/a
<b>Total</b>	<b>2,325,087</b>	<b>100%</b>	<b>2,325,087</b>	<b>100%</b>	<b>95%</b>

### Notes:

1. Tributary inflow consists of Peel River @ Carrol Gap, Mooki River @ Ruvigne, Cox's Creek @ Boggabri, Brigalow Creek @ Tharlane, Pian Creek @ Waminda and other unmeasured tributary inflows
2. Water rights are not metered. Values presented are estimated from recommended values provided by DNR or as specified in Water Sharing Plans.
3. End of system flows are normally measured at Walgett on the Namoi River. For 2010/2011 the end of system measurement was taken at Goangra on the Namoi as Walgett gauge was affected by backup flow from the Barwon River for most of the year.
4. Other outflows consist of Pian Creek flow measured at Waminda.
5. 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.