

# Water Balance Report

## Namoi River 2010 – 2011

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			134,767		
Volume in storage at end of year			500,087		
<b>Change in storage</b>			<b>365,320</b>	<b>17%</b>	100%
<b>Storage net evaporation</b>			<b>27,232</b>	<b>1%</b>	100%
<b>Inflows</b>					
Storage inflows	586,302	27%			100%
Downstream tributaries (1)	1,597,675	73%			85%
<b>Subtotal</b>	<b>2,183,977</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			805	0%	100%
High security			411	0%	100%
General security			61,327	3%	100%
Local water utility			649	0%	100%
Major utility			-	0%	100%
Supplementary water			86,803	4%	100%
<b>Subtotal</b>			<b>149,995</b>	<b>7%</b>	100%
<b>Environmental water</b>					
End of system flows 93			1,186,454	54%	100%
<b>Subtotal</b>			<b>1,186,454</b>	<b>54%</b>	100%
<b>Other outflows (4)</b>			<b>206,156</b>	<b>9%</b>	n/a
<b>Unaccounted difference (5)</b>			<b>246,884</b>	<b>11%</b>	95%
<b>Total</b>	<b>2,183,977</b>	<b>100%</b>	<b>2,183,977</b>	<b>100%</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.