

# WATER SUMMARY REPORT

Farm: **Namoi Valley Cotton**  
 Balance Period: **09/10/2005 - 03/03/2006**

<b>Green Area (ha):</b>	<b>435.00</b>		
	<b>ML</b>	<b>ML / Green ha</b>	
<b>Water Diverted</b>	2,685.0	6.17	
<b>Change In Storage Volume</b>	264.0	0.61	(Negative means an increase in storage volume)
<b>Harvested Land Surface Volume</b>	412.0	0.95	
<b>Effective Rainfall On Irrigated Fields</b>	814.4	1.87	(That portion of rain infiltrated into soil)
<b>Total Gross Water Inflow</b>	4,175.4	9.60	
	<b>ML</b>	<b>ML / Green ha</b>	
<b>Change In Soil Moisture on Irrigated Fields</b>	269.5	0.62	(Negative means an increase in soil moisture reservoir i.e. reduction in deficit)
<b>Total Gross Available Water</b>	4,444.8	10.22	(All water available for crop production including effective rainfall and change in soil moisture)
<b>Crop Transpiration</b>	3,195.3	7.35	(Does not include in-field soil evaporation)
<b>Total Water Inflow Losses</b> (Total Gross Water Inflow - Crop Transpiration)	980.1	2.25	Losses include: - Seepage and evaporation from: ● supply system ● ring tanks and dams ● drainage and tailwater system
<b>Total Available Water Losses</b> (Total Gross Available Water - Crop Transpiration)	1,249.5	2.87	- In-field application including: ● evaporation from soil surface ● deep percolation - run-off from rainfall not harvested.
<b>Gross Irrigation Water Supplied</b>	3,361.0	7.73	(Total Gross Water Inflow - Effective Rainfall)
<b>Total Rainfall On Irrigated Fields</b>	1,021.4	2.35	
<b>Effective Rainfall On Irrigated Fields</b>	814.4	1.87	(That portion of rain infiltrated into soil)

## Notes on WaterTrack Optimiser

WaterTrack Rapid is a simple and easy to use water balance model which is rigorous in its calculations but lumps all losses into a single figure.

For a detailed breakdown of losses into seepage and evaporation in each element of the irrigation system on a daily basis, WaterTrack Optimiser should be used. WaterTrack Optimiser also allows prediction forward to optimise planted area decisions for various water availabilities and can provide assessment of infrastructure changes on water use (see [www.watertrack.com.au](http://www.watertrack.com.au) or phone 1800 886 536).

**Caution:** Output of this model is based on sparse data together with an understanding of the processes of water movement on an irrigated farm. It should be used with extreme caution and supported by other measures of water movement on the farm. WaterTrack accepts no liability under any circumstances for decisions based on this output.