



Kyneton Water Reclamation Plant - Water Balance

Water Balance is the calculation between inflows to our plant and outflows, taking into account storage volume, evaporation, rainfall, irrigation and river releases. The aim of the water balance is to be zero. Figures are dependent on weather conditions. In the table at right, we've shown yearly amounts based on figures for extreme dry, average and extreme wet years.

Inflow and infiltration (I&I) refers to water that enters our network that isn't wastewater. It is a complex issue for water corporations which can result in overflows in the network and lagoon volume capacity issues at plants. Most of I&I is from customers' illegal stormwater connections that are connected to our sewer network. It is more common in older parts of towns and cities.

	Extreme Dry*	Average Year	Extreme Wet**
Available Storage (ML)	695	695	695
Required Storage (ML)	350	400	655
Available Irrigation (Ha)	140	140	140
Irrigation use (Ha)	115	120	80
Domestic Inflows (ML)	530	655	660
Trade Waste Inflows (ML)	285	285	285
Net Rainfall / Evaporation Inflow (ML)	0	0	120
Net Rainfall / Evaporation outflow (ML)	-240	-65	0
River Release (ML)	0	-275	-410
Irrigation use (ML)	-575	-600	-400
Contingency storage above 400ML	0	0	-255
Water Balance	0	0	0

The available irrigation (Ha) identified above is subject to the finalisation of the EOI.

* An extreme dry year has high evaporation and irrigation demand but lower inflows and storage required

**An extreme wet year has high inflows, high rainfall captured in lagoons, increase storage demand and high river release capability