

## Rainwater Harvesting

### Simple Rainwater Harvesting Estimations

Rainwater harvesting is not exact science, but if use actual rainfall figures by going though archives from Melbourne water. Then we might get a better idea of how much we can actually harvest from any roof. There are a few assumptions when trying to calculate rainfall that you can actually harvest from your roof--as every house is different. Considerations we must look at are:

- a. Aspect and Shape of the roof
- b. Size of the roof area
- c. Number of downpipes
- d. Location of downpipes

Rainfall Data from Melbourne Water are as such. Website Reference is:

<http://www.melbournewater.com.au>

[http://www.melbournewater.com.au/content/water/rainfall\\_data/rainfall\\_archive.asp](http://www.melbournewater.com.au/content/water/rainfall_data/rainfall_archive.asp)

Lets assume a very conservative figure of 40mm of rain a month as average. The formula is:

**1 square meter of surface area x 1mm of rain = 1 litre of water**

An average 3 bedroom home is said to have a roof area equivalent to 180sqm.

**Note:** *Assuming all downpipes from that surface area are connected to the tanks.*

Conservatively taking away 5% for evaporation, first flush systems and other variations. That gives us 38mm of rain for that month.

If 1sqm of roof area gets 38 litres, 100sqm equals 3800 litres and 180sqm gives us 6840 litres of rainwater for the month! How you choose to use that is completely up to YOU.

Source: [http://www.southeastwater.com.au/sewl/upload/document/water\\_you\\_use.pdf](http://www.southeastwater.com.au/sewl/upload/document/water_you_use.pdf)

Water consumption of a typical household of 3 people. 250,000 litres annually

Typical Usage is Bathroom 25% -62,500 litres a year; Laundry 15% -37,500; Kitchen 10% -25,000; Garden 30% -75,000; Toilet 20% 50,000

Research has shown most people are extremely concerned about their garden and the value of their homes. Whether this drought goes on or not, the price of water is set to rise. There is no doubt about that. Future proofing, maintaining the value of your home and ensuring the water future of Australia is a small part you can do and collectively it will make a difference for our childrens' future.

Disclaimer: Copyright, Design and Product images here are protected by Australian copyright law and by international conventions on copyright. All rights are reserved. Designs and Specifications may change without notice.

Kerrimuir Rainwater Products ® logo and products cannot be used without written permission from Ice Asia-Pacific Pty Ltd trading as Kerrimuir Rainwater Products ®. Rights Reserved. Ice Asia-Pacific Pty Ltd. ABN 22 123 782 892, trading as Kerrimuir Rainwater Products

Disclaimer: Copyright, Design and Product images here are protected by Australian copyright law and by international conventions on copyright. All rights are reserved. Designs and Specifications may change without notice.

Kerrimuir Rainwater Products ® logo and products cannot be used without written permission from Ice Asia-Pacific Pty Ltd trading as Kerrimuir Rainwater Products ®. Rights Reserved. Ice Asia-Pacific Pty Ltd. ABN 22 123 782 892, trading as Kerrimuir Rainwater Products