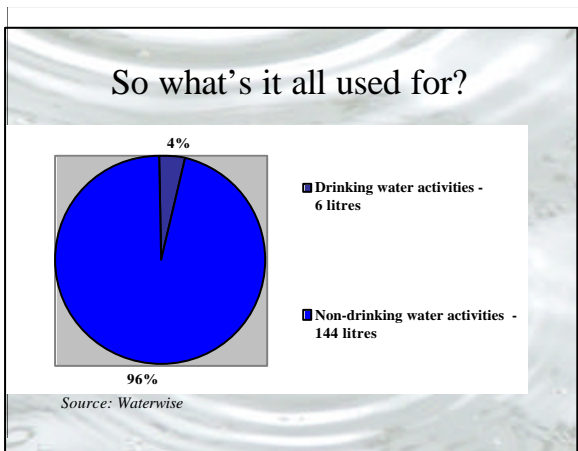




What's the situation in the UK?

- Water cycle
- Taken from rivers & ground water
- 1% of 1%
- Direct water average 150 lpd
- 54,750 litres or 54m³ per year
- *Compares to:*
 - 10 lpd in Mozambique
 - 575 lpd in USA
 - Safe minimum 20 lpd

Source: UNICEF and the World Health Organisation



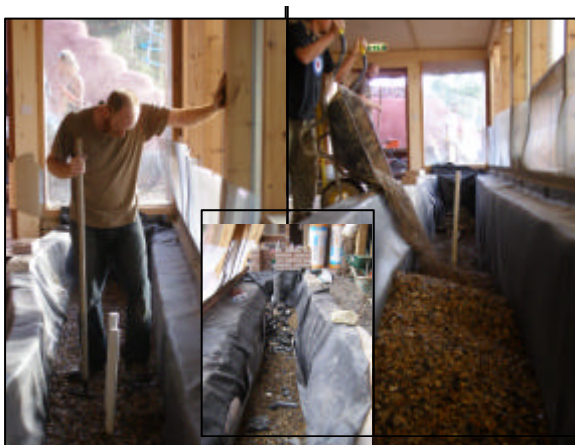
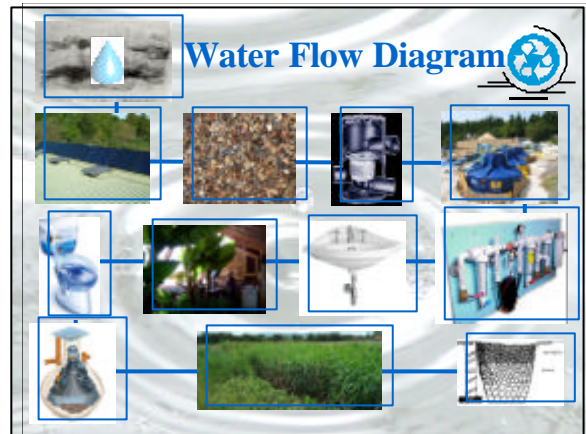
Rainwater harvesting from a typical residential house

- High precipitation
- 760.7mm rainfall
- 115 days over 1mm
- Roof area 135m²
- 48,000 Litres
- 2/3 month supply
- Around 12,000 litres

How to calculate rainfall yield?

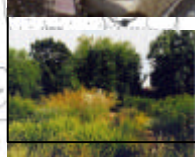


- Yield = **Roof Area** x **Average annual rainfall** x **Run-off coefficient** x **Filter efficiency**
- Yield = **135m²** x **0.789m** x **0.5** x **0.9**
- Yield = **48m³** or **48,000 litres per year**



Black water treatment system

- Deals with waste water on-site
- Septic tank installed
- To be built over summer
- Funded by Awards for All



Summary

- Commended in Environment Agency Water Efficiency Awards 2007 last week
- Help build a reed bed at Earthship Brighton
- Full details of the water systems in new book to be published in summer
- Tour of Earthship Brighton tomorrow



