

Southern Water

WaterWise Teaching Resource



A drip in time

Overhead transparencies

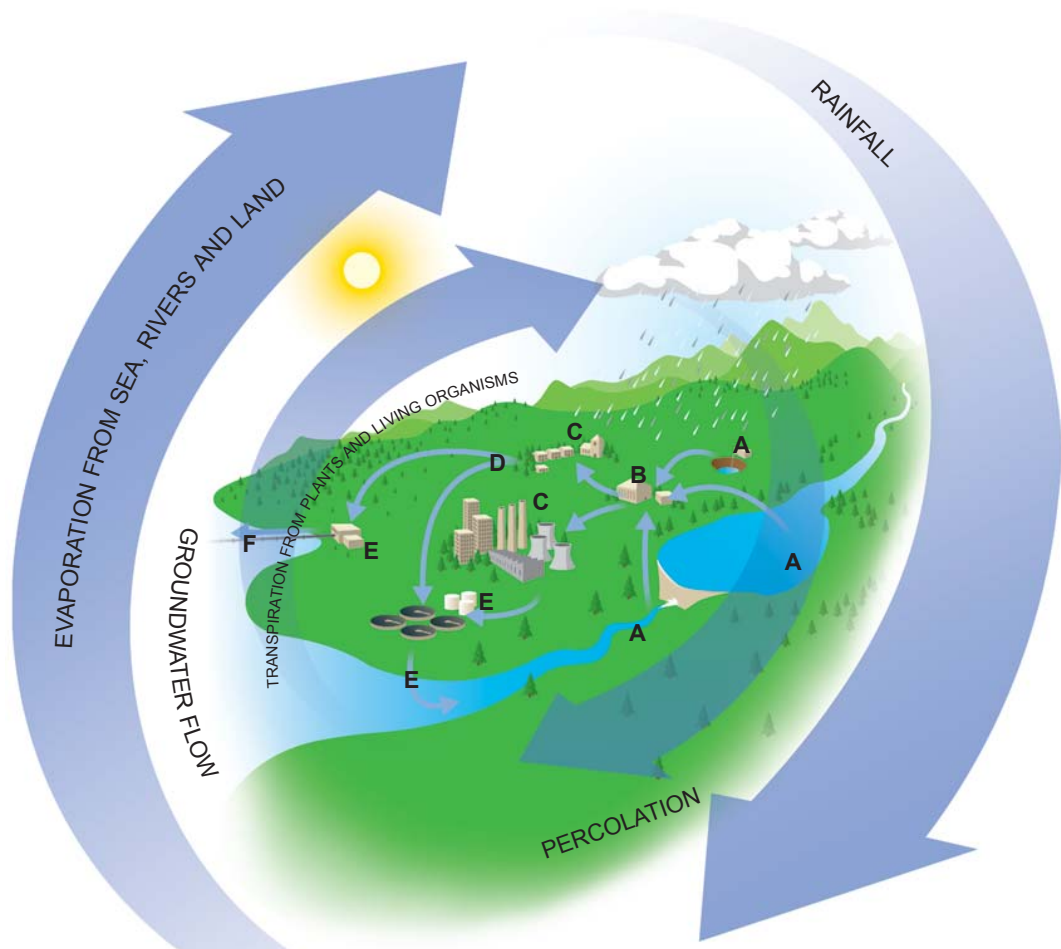
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The water cycle

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Key:

The water cycle is a continuous process. The clouds in the sky have been formed by evaporation from the land, seas, rivers and lakes. The water in the clouds falls as rain when weather conditions dictate.

Rainfall eventually finds its way either to the nearest reservoir or river, or percolates through porous ground such as chalk.

Southern Water collects and cleans the water which we then use.

The dirty water is then cleaned and returned to the environment.

At every stage of its route back to the sea or rivers, some of this water evaporates to begin the water cycle once again.

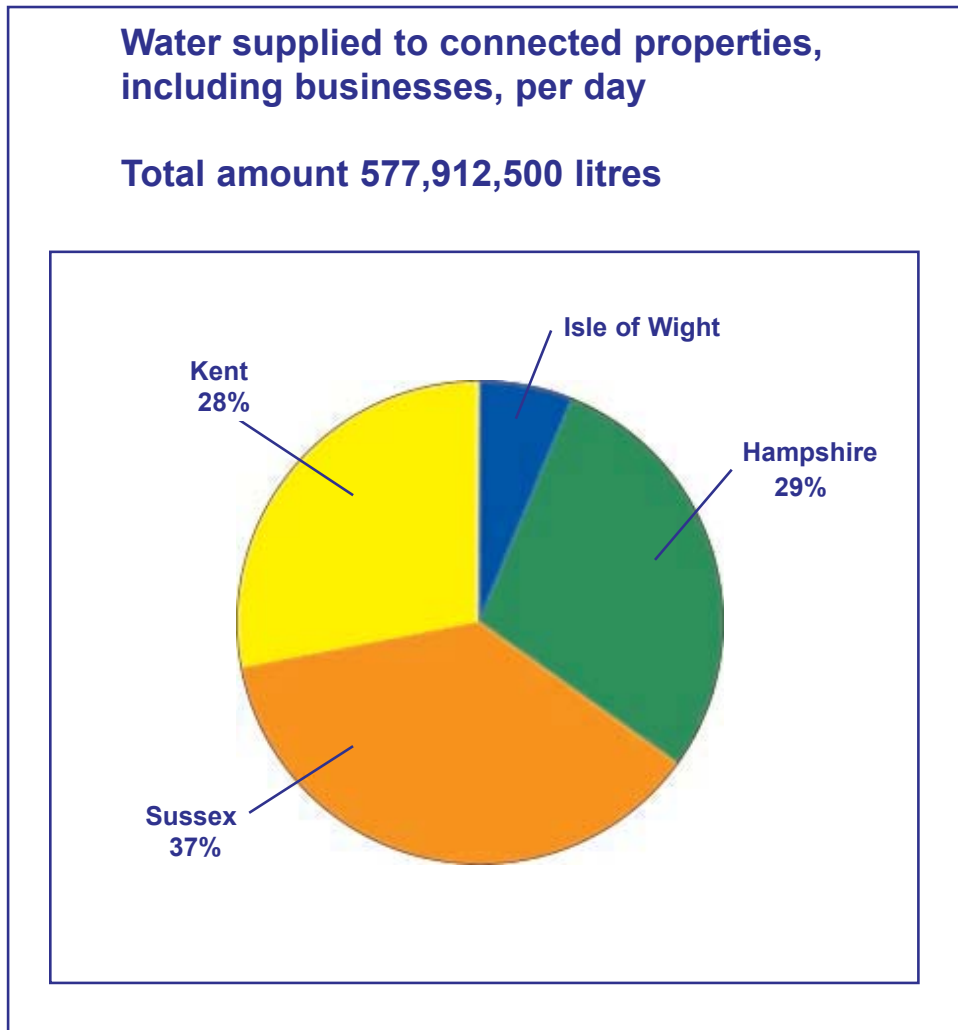
- A Water is collected from boreholes, reservoirs and rivers
- B Water treatment works
- C Clean water is supplied to domestic properties/industry/commerce etc
- D Wastewater into drainage system
- E Wastewater treatment works
- F Cleaned water either returned to rivers or to the sea via long sea outfalls



Daily water demand

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About 1 million homes receive their water from Southern Water. Other Water Companies supply the rest. Southern Water deals with the wastewater from all the homes in the area.



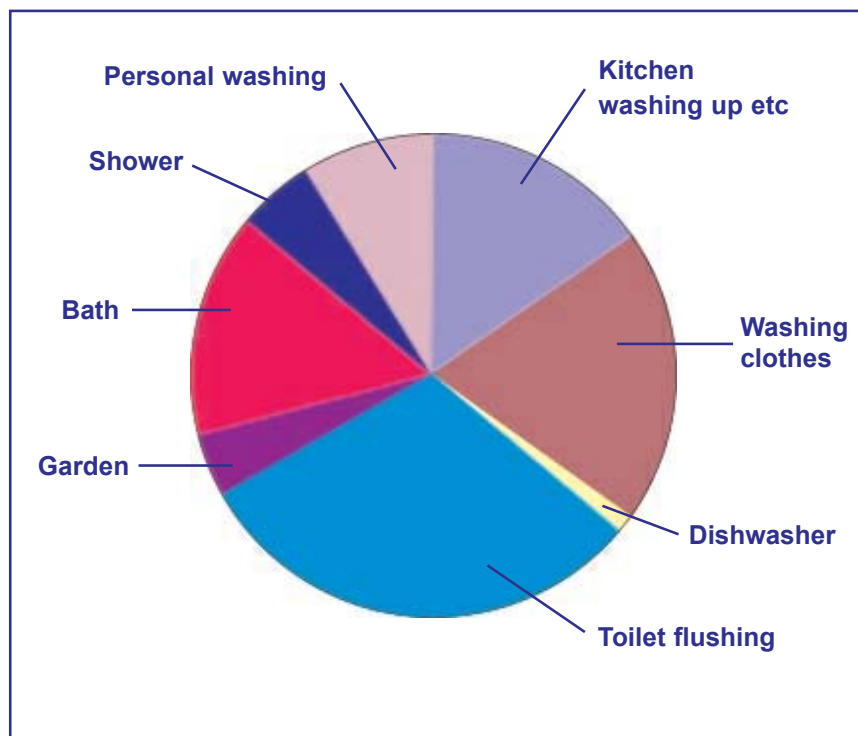


Daily water use around the home

On average, in the South East we all use 160 litres of water per day.

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What do we use our water for every day?





**A drip in
time**

OHT 4: Introductory Session

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4

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Group tasks

1. You have to carry out some research, using a data collection sheet, to find out how much water you and your family use every week.
2. You have to enter your information onto a prepared spreadsheet and produce some graphs to show how much water you use.
3. You have to carry out some research to find out how much water a small community group (e.g. school, class, year group, neighbours, community centre, place of work, street) uses every week.
4. You have to prepare information (leaflets, posters, advice) for a Water Conservation Day to be held in your school.
5. Resources to help you - A Water Audit (spreadsheet), Data Collection Sheets, Fact Sheets, Subjective Literature (giving you some starting points for your leaflets), Web Links, and Clip Art.



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Data collection sheet example

This data collection sheet is to be used to collect water use data to enter into the **water audit spreadsheet**.

People in your household **Number**

Estimate how many **times** a day these activities take place in your house and write the number in the box provided.

e.g. if there are four people in your house, and they each wash their hands and face twice a day, then write 8 in the box.

Personal	Number
wash hands and face	<input type="text"/>
bath	<input type="text"/>
shower	<input type="text"/>
clean teeth (tap on)	<input type="text"/>
clean teeth (tap off)	<input type="text"/>
toilet (flushes)	<input type="text"/>
others (litres)	<input type="text"/>

Washing	Number
pots and pans	<input type="text"/>
dishwasher	<input type="text"/>
clothes (machine)	<input type="text"/>
clothes (hand)	<input type="text"/>
others (litres)	<input type="text"/>

Drinking	
hot (cup)	<input type="text"/>
hot (mug)	<input type="text"/>
cold (small)	<input type="text"/>
cold (large)	<input type="text"/>

Others	
garden sprinkler/hose (times per week in summer)	<input type="text"/>
cooking (per day)	<input type="text"/>
dripping taps	<input type="text"/>