

FORESTS & WATER

EXPERIMENT 2: RESULTS & ANSWERS

Experiment 2 ANSWERS: Investigating how trees prevent flooding and pollution

RESULTS	Pot Plant (Tree)	Pot of Soil
Volume of runoff	Lesser Volume	Greater volume
Colour of runoff	Clearer	Darker
Presence of particles	None or a small amount	Yes – a larger amount

1. Why is there a difference in the volume of runoff from both pots?

The plant roots and creatures which live near plants (Worm,s, ants etc) create spaces in the soil where water can be stored.

2. Explain the difference in colour between the runoff from both pots.

The runoff from the bare soil is darker as it contains more soil particles. The roots of the plant bind the soil together preventing soil loss.

3. Can trees help to prevent and flooding?

Trees can stop large volumes of water going into rivers too fast and causing flooding.

4. Can trees help to prevent pollution?

Tree roots bind the soil together so prevent particles of soil and other materials from entering watercourses.