



# Trees and floods

## Explanatory video transcript

*(0:08)* Can trees protect us from floods?

*(0:15)* All around the world, people experience extreme weather, such as very hot days and very strong storms.

*(0:24)* In this experiment, we show how trees can protect us from floods and landslides.

*(0:32)* Vegetation, including trees, slows the movement of rainfall. Trees also absorb water from the soil, allowing greater infiltration into the soil and reducing surface runoff.

*(0:48)* When trees and vegetation are removed, surface runoff increases, saturating rivers and causing floods. We were able to see this in our experiment.

*(1:01)* When pouring water on soil without plants, simulating a day of heavy rain, the water washed away a lot of soil.

*(1:14)* The tree roots grab onto the soil like a big hug. They make the soil stay in place.

*(1:22)* On hills, roots anchor the soil together, making sure it doesn't slide down.

*(1:29)* How can we help?

*(1:32)* We can plant more trees and take care of the ones we have.

