

International Year of Soils

Soils improve food security and our resilience to floods and droughts

SOILS

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Healthy soils with a high organic matter content can store large amounts of water. This is crucial for maintaining food production while also improving resilience to floods and droughts.



What is soil moisture?

Soil moisture content is the amount of water in the soil (by weight).

The maximum amount of water that a soil can retain depends on:



Soil moisture and food security



Water is the "lifeblood" of agriculture improved soil moisture management is critical for sustainable food production.



Inhibiting a soil's capacity to accept, retain, release and transmit water reduces its productivity.

The great challenge for the future will be increasing food production with less water.

As most smallholder farmers in developing countries rely on rain-fed agriculture, improved soil moisture optimization and management is crucial.

Over cultivation, overgrazing and deforestation strain soil and water resources by reducing topsoil and vegetation cover, and lead to dependence on irrigated cropping.



Meeting food security targets requires sustainable agricultural policies that ensure improved soil quality and water retention.

Improving soil moisture

Many sustainable agricultural and land management practices can improve soil moisture retention:



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