FEED THE FUTURE
The U.S. Government's Global Hunger & Food Security Initiative

Minimal Soil Disturbance and its Effect on Soil Moisture Availability.

Climate change, especially by erratic rains, causes water stress in plants, which results in a consequent reduction

of yield, as the photo shows.

There are technologies that can improve soil moisture infiltration and retention, one of these technologies is the practice of minimum soil disturbance and the use of live or dead soil cover.

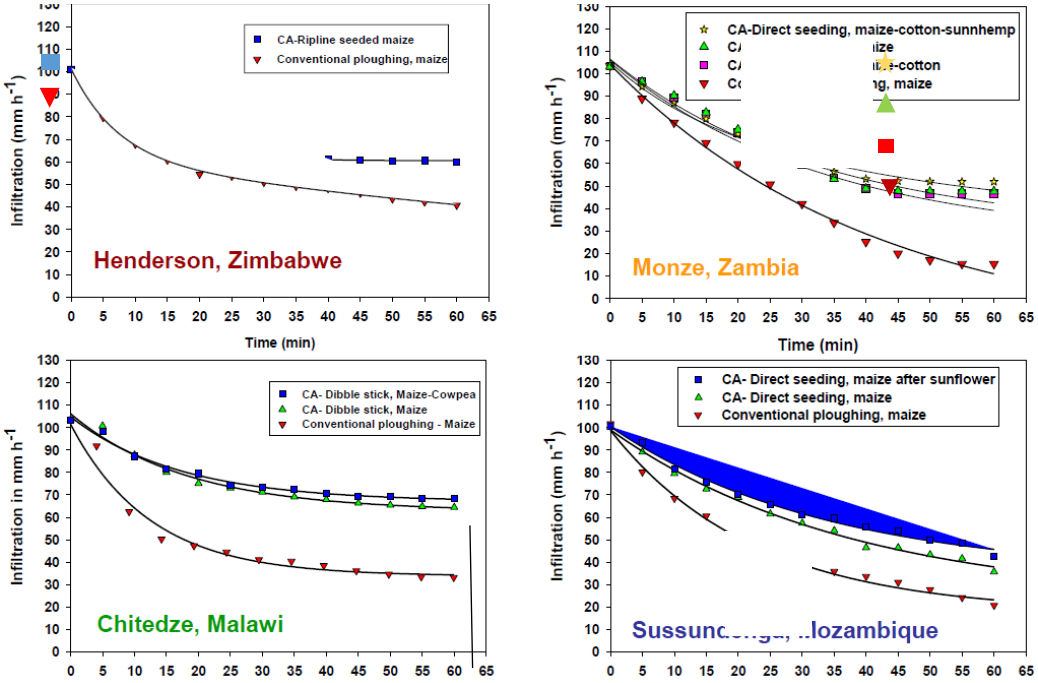
RAMA-BC is promoting conservation agriculture in its Model Family Farms (MFFs) and Observation Units in the provinces of Manica and Sofala. A key principle in these demonstrations is Conservation Agriculture and minimum soil disturbance.

For the lack of soil moisture, the most efficient solution proven in various parts of the world is:

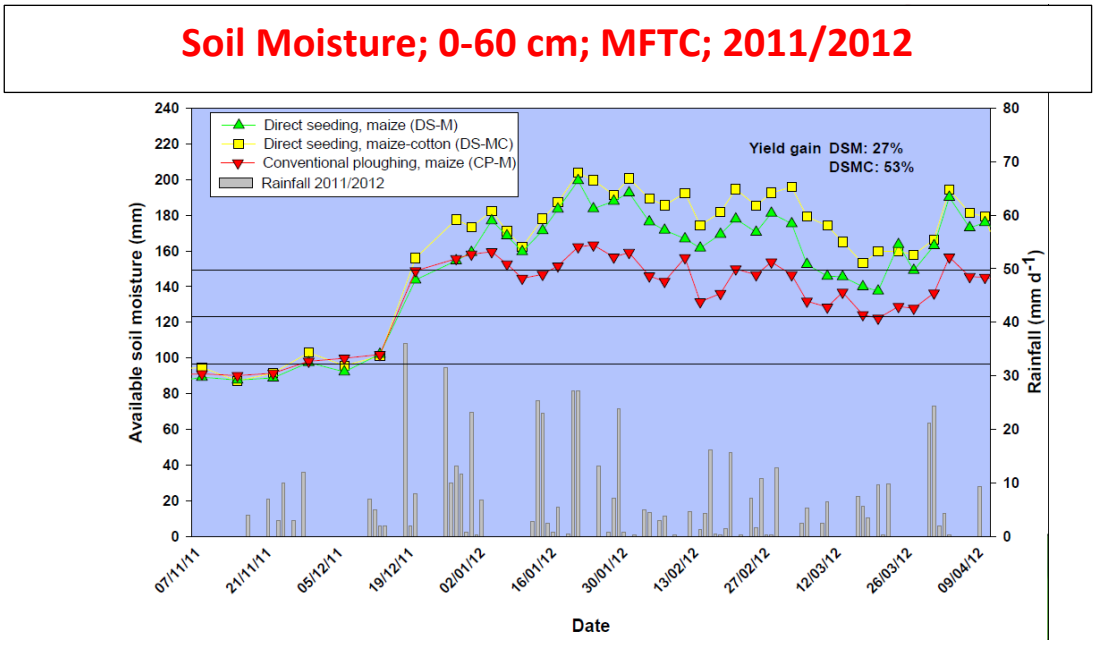
- Zero tillage to improve soil structure and its ability to absorb and retain moisture;
- Cover crops that reduce soil temperature and evaporation.

WITH ZERO TILLAGE, MORE WATER INFILTRATES INTO THE SOIL

Increase in Water Infiltration with the Conservation Agriculture System



WITH ZERO TILLAGE, MORE WATER REMAINS IN THE SOIL



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