

Planting maize using walking tractor at Gudeya Billa woreda







Conservation Agriculture (CA)

Conservation Agriculture is the farming approach that conserves, improves and ensures efficient use of natural resources and enable the farmers to achieve profits in a sustainable manner.

Benefits of CA

1 | Stable Yields

The water and soil conserving effects of CA help to stabilize yields against weather extremes.

Often, CA increases average yields in the long-term.

2 | Drought buffering

CA increases soil water content by increasing infiltration and reducing runoff and evaporation. Increased infiltration improves water use efficiency and buffers crops against drought. Mulch cover also buffers the soil against temperature extremes.

3 | Reduced field preparation costs

CA reduces costs associated with tillage, whether manual or by machinery.

4 | Reduced soil erosion

Reducing tillage and maintaining soil cover with crop residues can reduce erosion by up to 80%. CA also generally increases soil organic matter in topsoil, as well as soil biological activity and biodiversity.

5 | Climate change mitigation

CA can mitigate climate change by accumulating carbon in soil, though this benefit may not be as large on a global level as has been hoped.











Principles of CA

1 | Minimum soil disturbance



2 | Permanent soil cover with crop residues and live mulches

