Soil compaction

Increase in density and a decline of macro-porosity in soil that impairs soil functions and impedes root penetration and water and gas exchange.

Soil compaction can reduce crop yields by as much as 60%. Agricultural mismanagement (80%) and overgrazing (16%) are the two major causative factors of human induced soil compaction.

MINIMUM-TILLAGE AGRICULTURE IS AMONG THE TOP OPTIONS TO REDUCE TILLAGE COSTS, CONSERVE SOIL AND WATER, INCREASE SOIL ORGANIC CARBON POOLS, AND REDUCE NET CO₂ EMISSIONS

World Soil Day 2016

4% of the global land area is estimated to be compacted
Soil compaction

Condition
- Very poor
- Poor
- Fair
- Good

Trend
- Improving
- Deteriorating
- Variable
- Stable