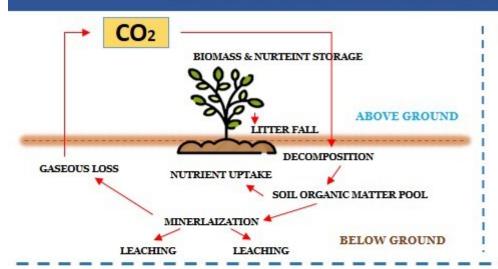
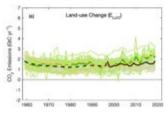
SOIL AND CARBON SEQUESTRATION

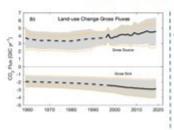


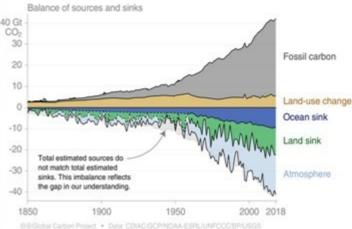
Total potential of soil C sequestration in India

39 to 49 (44± 5) Tg C/y

GLOBAL SCENARIO







Soil the largest terrestrial carbon pool estimated at approximately, 2344 Gt of organic carbon in the first 3 m, 1500 Gt in the first 1 m and 615 Gt stored in the top 20 cm of the soil profile.

Soil has carbon pool estimation approximately 1500 Gt of OC (1 meter of soil profile). This is much higher than the 560 Gt of carbon (C) found in the biotic pool and twice more than atmospheric CO2.

Degraded agricultural soil

estimated to have potential of sequestering up to 1.2 billion tonnes of carbon per year.

Sequestration of atmospheric carbon

in soil is 24% of global soil (entire land surface) and 50% of agricultural soils globally.

Soil as sequent

around 20 Pg C in 25 years, more than 10 % of anthropogenic emissions.

INDIAN SCENARIO

Restoration of degraded soils & ecosystems is around 7 to 10 Tg C/y

Adoption of RMPs on agricultural soils is around 6 to 7 Tg C/y

Erosion control is around 5 to 7 Tg C/y

Secondary carbonates is around 22 to 26 Tg C/y

* Gt-Giga Tonne; Pg-Petagram; Tg-Teragram; OC-Organic Carbon; RMPs-Resource Management Plan; C/y-Carbon per Year





