



Ethiopia: brief summary

- Between latitudes 3° and 15°N
- Total area: 1,104,300 km²
- Population (2017): 102,000,000
Population growth rate (2013): 2.6% (World Bank)
- 80 ethnic groups
- A dry and two rainy seasons (annual rainfall 250 to 2000 mm; average temperature 16 to 27°C)

<http://en.wikipedia.org/wiki/Ethiopia>

Ethiopia: brief summary



- Agriculture dominant economy (42% of GDP, 85% employment)
- GDP \$700 per capita (2016)
- 10% economic growth annually from 2004 through 2009
- Forest cover (FAO, 2010)
Early 20th century: 35%,
Current: 11.9%
Annual deforestation rate: 1.1%

<http://en.wikipedia.org/wiki/Ethiopia>

Ethiopian home garden agroforestry in Southern Ethiopia



Source: Kaonga and Bayliss-Smith, 2009; Beedy et al., 2010

Ethiopian home garden agroforestry in Southern Ethiopia



- Grow crops with various tree species & animals
- Provide food, fuel & cash income
- Protect soil & biodiversity

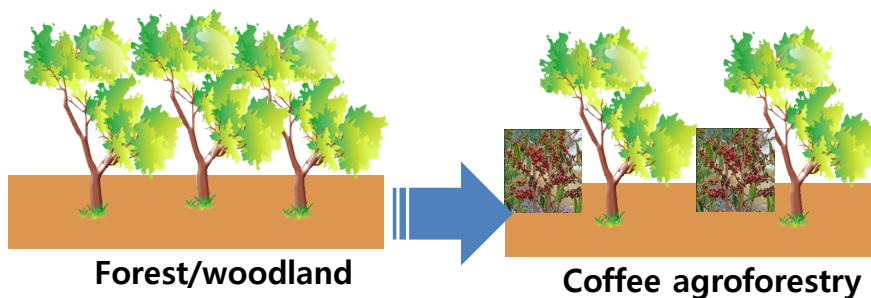
Source: Kaonga and Bayliss-Smith, 2009; Beedy et al.

Converting forest to coffee agroforestry

No significant change in soil carbon

$147.6 \pm 16.5 \text{ Mg C ha}^{-1}$

$145.0 \pm 28.7 \text{ Mg C ha}^{-1}$

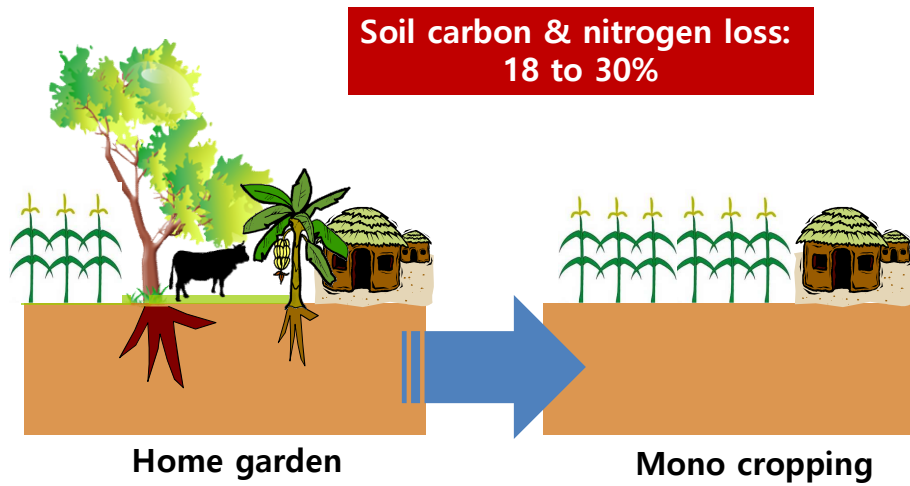


Forest/woodland

Coffee agroforestry

Source: Biazin et al. 2018

Converting home garden to mono-cropping



Source: Kim et al. (2016)

Teff-Acacia intercropping & charcoal production in western Ethiopia

