#### Adelaide and Mount Lofty Ranges NRM Region

### Terrestrial

## 2014 Regional Snapshot

## How much carbon is stored in our soils?

Organic matter in soil, commonly called soil organic matter or SOM by soil scientists, is important for agricultural productivity and the health of native plants due to its role in physical, chemical and biological functions within soil. Organic matter improves the quality of soil by providing more favourable conditions for plant growth and increasing resilience to drought. Soil organic carbon is an important component of the organic matter in soil, and is a recognised indicator of soil quality.

Increasing the amount of organic carbon stored in soils is also receiving attention as a way to reduce carbon dioxide in the atmosphere to help combat global warming.

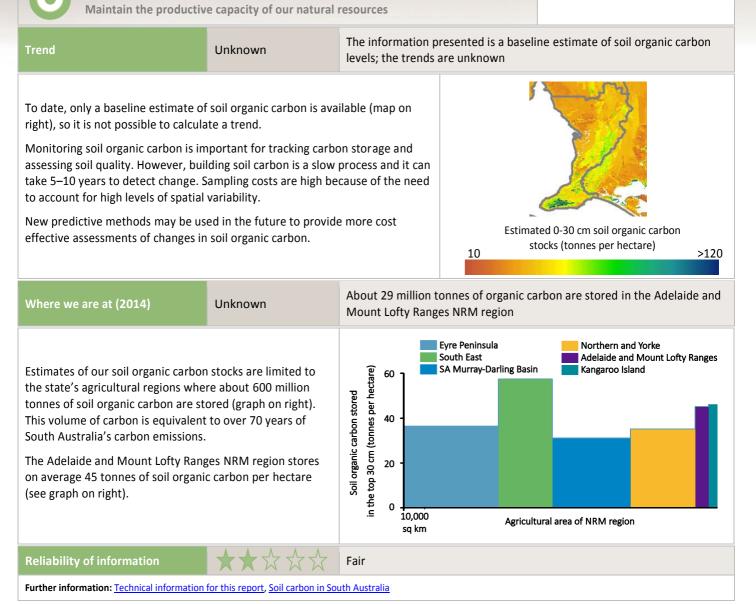
The amount of organic carbon in soil is influenced by rainfall, soil characteristics and land uses. Expert opinion suggests that historic agricultural practices have caused the general decline of soil organic carbon stocks, and, in many situations, current 'best management practices' may only be able to slow further declines. Hence there is a need for further research and the development of innovative 'carbon farming' approaches that can increase organic carbon in soils.

Carbon is also stored in native vegetation, as reported here.

**State target** 

# Trend in soil organic carbon storage





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