

2014 Regional Snapshot

How much carbon is stored in our trees?

As trees grow they convert carbon dioxide from the atmosphere into living vegetation. This reduces greenhouse gases in the atmosphere and slows global warming. Trees also provide habitats for native plants and animals, improve air and water quality, enhance our recreational areas and provide us with wood and other products.

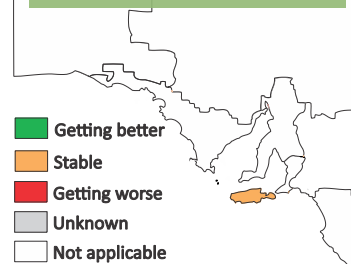
Since European settlement, extensive areas of our native vegetation have been cleared for agriculture and other human activities (reported [here](#)). This has reduced the amount of carbon stored in remnant native trees to about 57 per cent of historical stocks in the Kangaroo Island NRM region.

Estimates of our current carbon stocks are limited to the above-ground portion of remnant native trees and larger shrubs.

Carbon is also stored in the soil, as reported [here](#).



Trends of carbon storage in remnant native trees



State target

Maintain the productive capacity of our natural resources

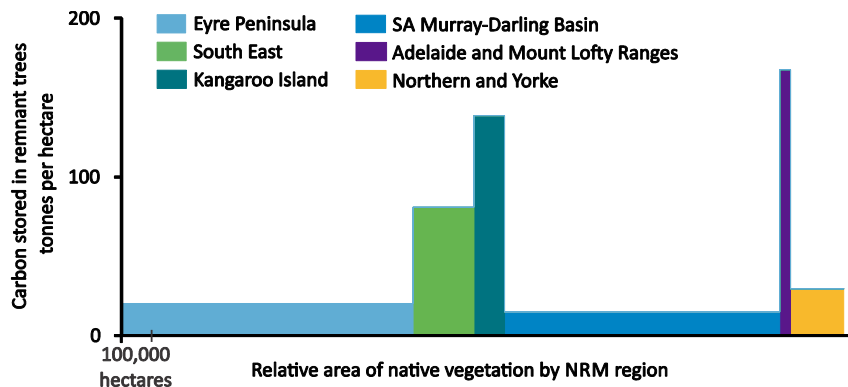
Trend (2007–12)

Stable

Since the protection of native vegetation by legislation in 1991, carbon storage has remained fairly stable

Carbon stocks have been relatively stable since remnant native vegetation was protected in 1991. Short term variations are mainly influenced by climate and fires.

The Kangaroo Island NRM region has on average 139 tonnes of carbon stored in each hectare of remnant native trees (see graph on right).



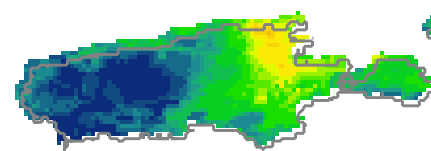
Where we are at (2012)

Fair

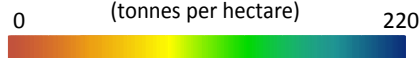
29 million tonnes of carbon are stored in remnant native trees

Restoring native vegetation and growing trees for carbon crops can increase our carbon stocks and offset greenhouse gas emissions. With 57 per cent of historical carbon stocks remaining, there is scope to increase our carbon stocks.

Areas of higher rainfall and good soil quality have the highest potential for carbon storage (map on right), but they also have the highest agricultural productivity. In choosing between using land for agriculture, revegetation with native plants or carbon cropping, we need to carefully consider the trade-off between the need to increase our carbon stocks with the need to maintain agricultural productivity. However, with improved assessment of land use capability it is possible to identify suitable areas for revegetation within all agricultural areas.



Potential carbon storage (tonnes per hectare)



Reliability of information



Very Good

Further information: [Technical information for this report](#), [Carbon in vegetation](#)