Guide to carbon planting in South Australia
Summary maps
Introduction

The Guide to Carbon Planting in SA contains a range of spatial data layers, a report and these maps based on natural resources management regions.

The aim is to provide background information that may help guide decisions by landholders, industry groups, non-government organisations, and others involved with Carbon Farming (also known as Carbon Credits or Carbon off-setting schemes).

These information products provide context to landscape-scale planning and are not intended for use at the local or property-scale.

The information presented is summary in nature to illustrate geographic variation in issues and some basic scenarios relating to carbon plantings.

This set of summary maps enables readers to view the issues in a region without GIS software. The table below shows which maps are presented for the Adelaide and Mt Lofty Ranges Natural Resources region.

The report along with spatial data layers and scenarios for the rest of SA are available via data.sa.gov.au

The maps are derived from biophysical data only. There are a number of factors that will influence the appropriateness of a carbon planting see report for more information.

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Did you know?

’Carbon dioxide equivalent’ or ‘CO2-e’ is a term for describing different greenhouse gases in a common unit. For any quantity and type of greenhouse gas (e.g methane, nitrous oxide) CO2-e signifies the amount of CO2 which would have the equivalent global warming impact. The Australian Government Clean Energy Regulator defines 1 tonne of CO2-e as a standard unit of measure for carbon trading. Each Australian Carbon Credit Unit (ACCU) is issued by the regulator for accredited and registered projects that sequester carbon dioxide or avoid the release of greenhouse gases.
Map 1

Carbon Sequestration
Biodiverse planting

Sequestration is influenced by planting type, age and future climate.

This map represents the sequestration rate from a biodiverse planting design (50% Trees) by 2030 from the baseline climate scenario (historic average).

See report for more information.
Map 2

Carbon Sequestration
Mixed planting

Sequestration is influenced by planting type, age and future climate.
This map represents the sequestration rate from a mixed planting design (88% Trees) by 2030 from the baseline climate scenario (historic average).

See report for more information.
Map 3

Carbon Sequestration
Carbon forestry

Sequestration is influenced by planting type, age and future climate.

This map represents the sequestration rate from a carbon forest design (100% Trees) by 2030 from the baseline climate scenario (historic average).

See report for more information.
Soils and landscapes with increased susceptibility to erosion represent high opportunity for stabilisation in the context of a carbon planting.

Carbon plantings that help stabilise soil can generate a co-benefit alongside carbon sequestration.

This map combines wind and water erosion susceptibility to locate this opportunity.

See report for more information.
Carbon plantings present a possible risk of reducing surface water runoff. Increasing the area of woody vegetation in a catchment will divert rainfall from surface water flows by reducing runoff. This has the potential to impact other economic and environmental uses.

This map shows the likelihood of vegetation intercepting surface water based on long-term average annual rainfall categories:

- **Low**: 0 – 450 mm
- **Moderate**: 450 – 600 mm
- **High**: 600 mm +

See [report](#) for more information.
## 4 Further information

The following web links provide more information on a range of issues that influence carbon plantings in South Australia, including scientific reports, data, strategies, legislation and policy.

### Science and data


2. Information on potential woodlot species are found in the following FloraSearch reports:

3. The Land Use Trade Off model (LUTO) has been developed by the CSIRO and models carbon payments relative to competing land uses: Australian land-use and sustainability data: 2013 to 2050 can be accessed from: [http://doi.org/10.4225/08/5756169E381CC](http://doi.org/10.4225/08/5756169E381CC)


### Strategies and frameworks


### Regulatory information


