

Soil characterisation sites and data sheets

Detailed representative soil profile data can be downloaded for over 1100 sites across South Australia

Soils are a key driver of plant health and productivity. Different soil conditions can influence important factors such as water and nutrient availability, drainage, erodibility, and physical and chemical barriers to root growth. To provide important background information for land management and agricultural production, the Government of South Australia has undertaken a significant land resource assessment program to describe and map the soils of southern South Australia.

Gathering soil profile descriptions (or site data) was a fundamental part of this work. The field survey program largely concluded in 2001, however soil site data collection continues on an opportunistic basis.

To date, over 1100 *Soil characterisation sites* have been captured, providing detailed representative examples of soil variability. At *Soil characterisation sites*, pits are excavated to depths of 1.5–2 m, and soil profiles are described and photographed. Samples are taken from each soil layer (horizon) to be dried, ground and then analysed for a range of properties relevant to plant growth and agricultural land management. This information is summarised into two-page *Soil characterisation site data sheets* that are accessible (refer overleaf) from the interactive online mapping sites:

- **NatureMaps** – Public: <http://www.naturemaps.sa.gov.au/>
- **EnvMaps** – SA Government only: <http://maps.env.sa.gov.au/>



Soil pit field days, held at 'soil characterisation sites', provide a valuable way to engage and educate farmers and other land managers about soils. Soil morphology and chemical data are interpreted and discussed. This builds understanding of the implications for water movement, nutrient availability, soil stability, plant and root growth, and hence broader impacts for land use and management.



