

# Geoscape Trees

A digital dataset representing tree heights and their coverage across Australia

**Geoscape Trees** is a national dataset representing tree cover and associated heights in urban areas across each state and territory. Available as a raster dataset, Geoscape Trees provides a digital pixel representation of trees at a two-metre resolution.

By understanding tree height, you can identify risks for a particular location. By combining tree data with **Geoscape Buildings**, you can assess tree overhang and the threat posed by a tree depending on its distance from the building.

**Geoscape Trees** is a dataset from **Geoscape Surface Features**, which captures surface cover, trees, greenspace and hydrology datasets for a broader view of surface classification and elevation. When used together, you can get a detailed spatial picture of Australia's surface features.

## Industry Use Cases

### Urban Planning

Greener cities are vital for overall health and wellbeing as increasing average temperatures result in more heat waves.

The urban heat island effect is increasingly a focus for urban planning and political decision-making in cities.

Gain insights into the average tree cover in cities to enhance assessment and modelling at scale.

### PropTech

Tree location and height data can be used to assess the development potential for a particular site.

Tall and ageing trees can impact the suitability or planning process for a new development.

### Insurance

By easily assessing the proximity of trees to buildings – and their relative height – insurance companies can assess the potential risk to immediate and surrounding structures.

## Geoscape Trees

### Features

#### 1 Australia-wide

A national digital dataset representing trees in urban areas across all states and territories of Australia.

#### 2 Identify tree location

Geoscape Trees provides a digital representation of the location of trees. Understand where they are and their association with other features of interest, such as buildings, addresses and land parcels. Assess the risk of tree encroachment on assets, including electrical infrastructure, or the risk of damage to buildings from potential falling trees or tree debris.

#### 3 Tree height

Measured using photogrammetric techniques, tree height across the full dataset enables three-dimensional representation for complex analysis and visualisation. The range of tree heights supports reclassification for applications, including clutter modelling.

#### 4 Tree coverage

From major cities to small settlements, Geoscape Trees provides coverage across large areas to support assessment of tree coverage changes over time. Tree coverage can be measured across areas, such as Local Government Areas, Suburbs, Mesh Blocks, and Land Parcels. By measuring trees nationally against administrative regions, areas can be aggregated or ranked to understand progress against greening targets, areas at risk of the heat island effect and opportunities to increase environmental sustainability in particular areas.

#### 5 Regularly updated

Geoscape Trees is updated quarterly, incorporating the latest remotely sensed capture into new product releases. Major urban areas are targeted for recapture on an annual basis, which supports the tracking of tree variations across regions.

#### 6 File format

Geoscape Trees is a raster dataset provided in Tagged Image File Format (TIFF) format. Files are projected into MGA zones and split at state boundaries (with the exclusion of the ACT, which is provided within NSW).

### Inclusions

The dataset has two layers:

- **Trees** – a digital pixel representation of tree coverage provided as a raster dataset with assigned pixel value representing the height of a tree.
- **Trees metadata** – represents any manipulation or insight into pixel values.

### Sample Geoscape Trees data today

Get in touch with us at [info@geoscape.com.au](mailto:info@geoscape.com.au) to learn more.

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