

# Opportunities for Biodiverse Sandalwood Reforestation Through Carbon Farming

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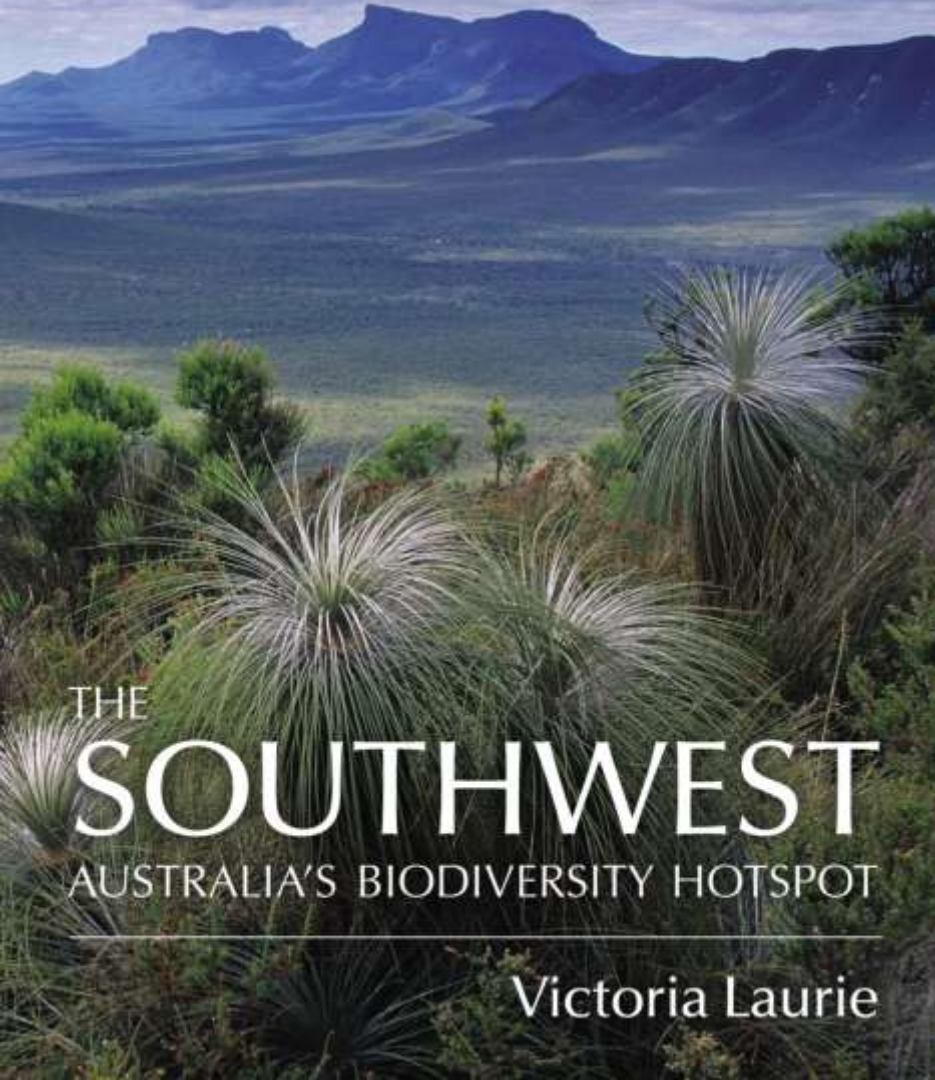


# Climate Change Impacts



- Average temperatures across Australia projected to rise by 0.6 to 1.5°C by 2030
- Less rainfall in southern areas, more droughts and heat waves
- More extreme weather events and fires
- Sea levels will rise





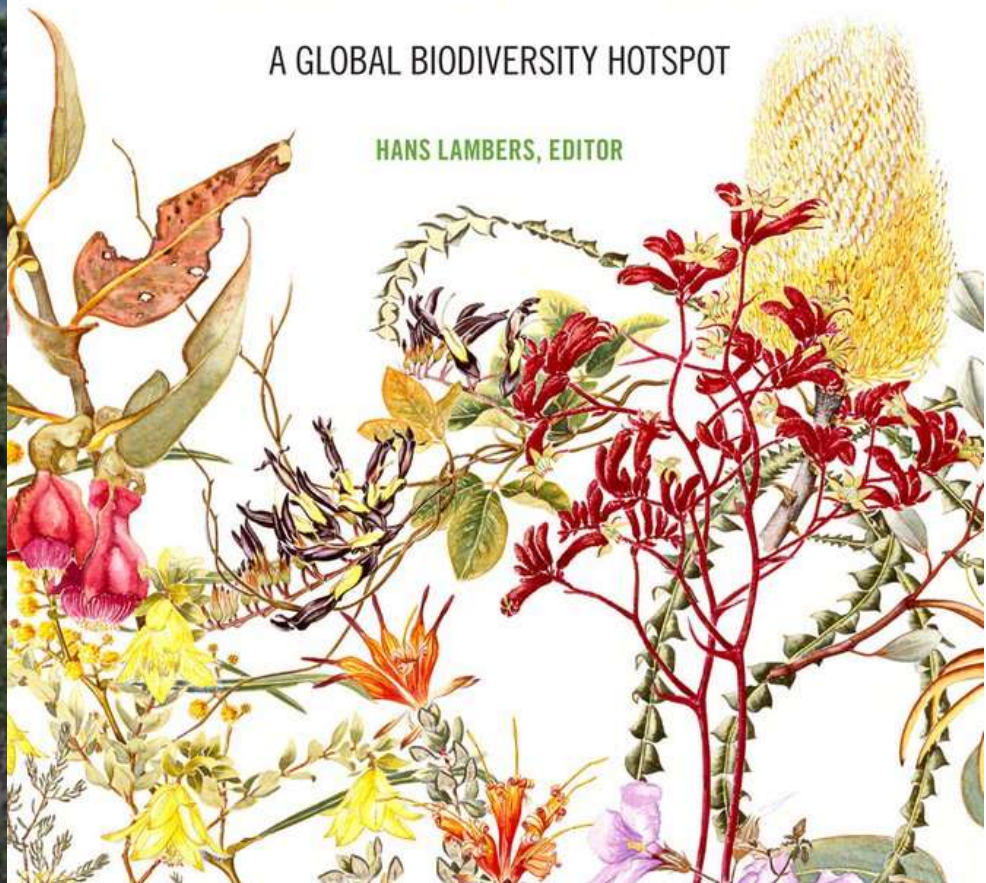
THE  
**SOUTHWEST**  
AUSTRALIA'S BIODIVERSITY HOTSPOT

Victoria Laurie

# PLANT LIFE ON THE SANDPLAINS IN SOUTHWEST AUSTRALIA

A GLOBAL BIODIVERSITY HOTSPOT

HANS LAMBERS, EDITOR



# Carbon Farming



Restoration and other land management improvements could increase both agricultural production and carbon sequestration simultaneously



# Integrated Agriculture: Grazing, Honey & Sandalwood



# CNCF Biodiverse Sandalwood Reforestation Project



- **Aim:** Restore native forests and woodlands on unproductive soils on dryland farms
- **Sites targeted:** Mostly wodgil soils that support native sandalwood (*Santalum spicatum*) ecosystems
- **Native *Acacia*** and other trees and shrubs serve as hosts for the hemiparasitic native sandalwood



# Land Owners



- **Provide:** Land, fencing, vermin control, fire breaks
- **Get:** Nil cost revegetation
- Commercial harvest of sandalwood nuts and thinnings
- Harvest sandalwood at year 25
- Sheep grazing rights (2 yrs+), shelter belts
- **Landcare benefits:** Erosion control, salinity mitigation
- **Biodiversity values** and wildlife corridors
- **Sign:** 30-year Carbon Right and Carbon Covenant

# Carbon Neutral Charitable Fund



## As Developer / Aggregator

- **Engages planting contractors** to establish the new forests and woodlands
- **Undertake registration**, monitoring and reporting of carbon abatement under:
  - ERF Farm Forestry method (ACCU)
  - Gold standard VER, or
  - Unaccredited offsets
- **Sell carbon credits** into regulatory or voluntary market as a registered aggregator



# Species: Multiple Host for Biodiversity



## Mt Marshall Planting 2018

**Target:** 1000-1500 trees/shrubs per ha  
**High biodiversity** values with >20 local native species

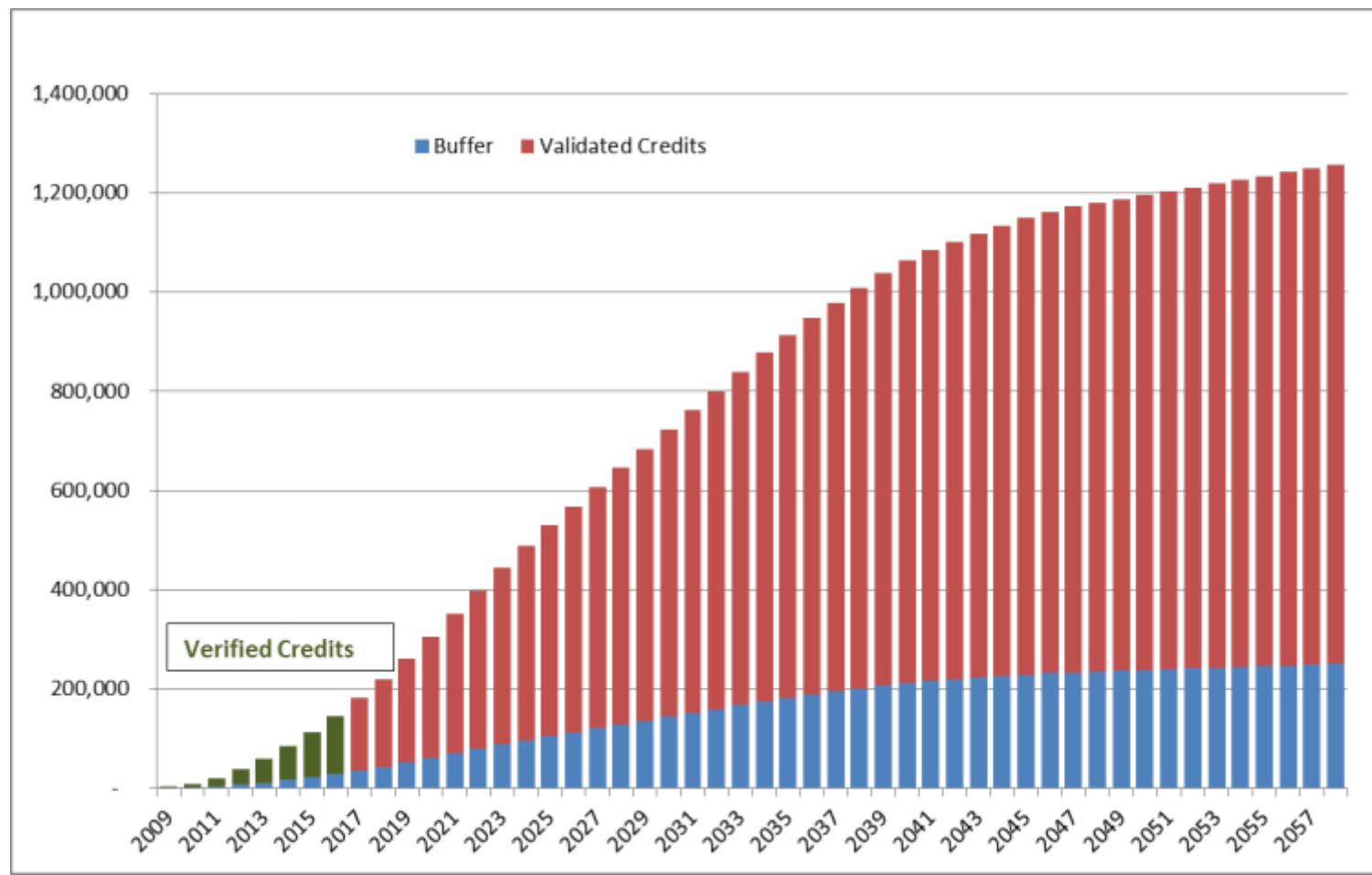
### **Direct seeded:**

- 16 Acacia sp. (primary *acuminata*)
- 2 Allocasuarina sp.

**Seedlings:** 500 stems/ha (4 Eucalyptus sp, 1 Hakea)

**Sandalwood seed (Yr 2):** Target 300 stems/ha (1.6 kg/ha)

# Biodiverse carbon growth curve 50 years





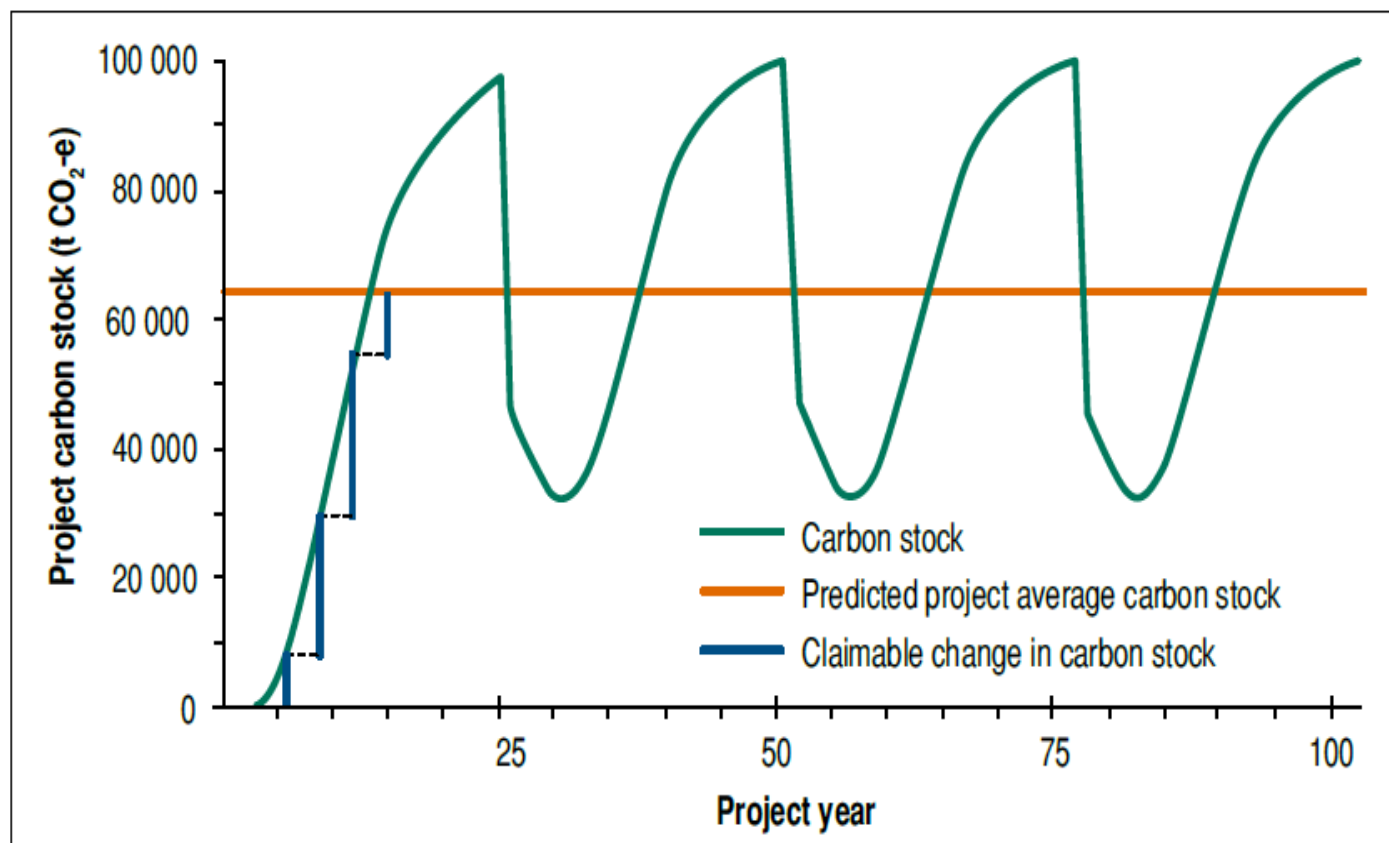


Figure 1 Example of a possible carbon stock profile over four rotations, showing predicted project average carbon stock (PPACS) and claimable change in carbon stocks (CCCSs) at three-yearly reporting intervals.

# Carbon Farming

## Opportunity for WA Landowners and Revegetation Industry

Growing list of diverse organisations looking to purchase carbon credits to 'invest' in natural capital to support:

- Ecological restoration and carbon sequestration outcomes
- Strong economic, social and economic co-benefits







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