

*UPPER TORRENS LAND MANAGEMENT PROJECT*

# Increasing ecological richness in grassy woodlands in the Upper Torrens Catchment, SA

‘Grassy Groundcover Restoration Project, SA’



Australian Government

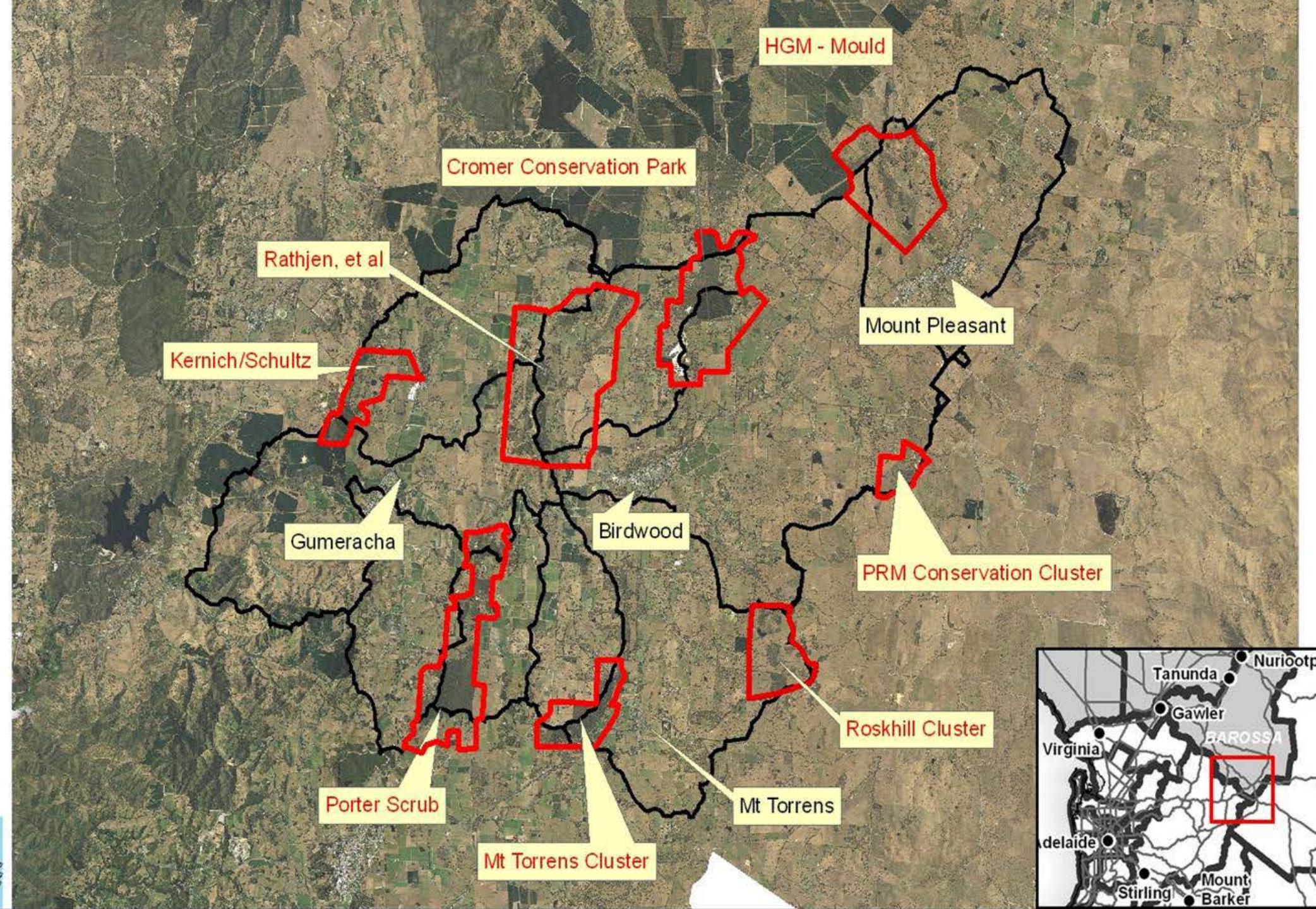




# NATIVE GRASSES: ENHANCING ESTABLISHMENT FORUM 2016

OCTOBER 20 – 21, 2016  
TECHNOLOGY PARK, MAWSON  
LAKES, SOUTH AUSTRALIA

Please visit [www.cityofsalisbury.sa.gov.au](http://www.cityofsalisbury.sa.gov.au) and search  
for "Native Grass Forum 2016". Call 08 8422 5570.





# Fundamental understanding

- Australian native species are generally slower to establish than exotic species
- Local climatic conditions and seasonal characteristics are not constant nor are they necessarily predictable
- Adaptive project management
- All vegetation is in a state of succession
- Weeds are the number 1 enemy!



# GGRP Trial Sites

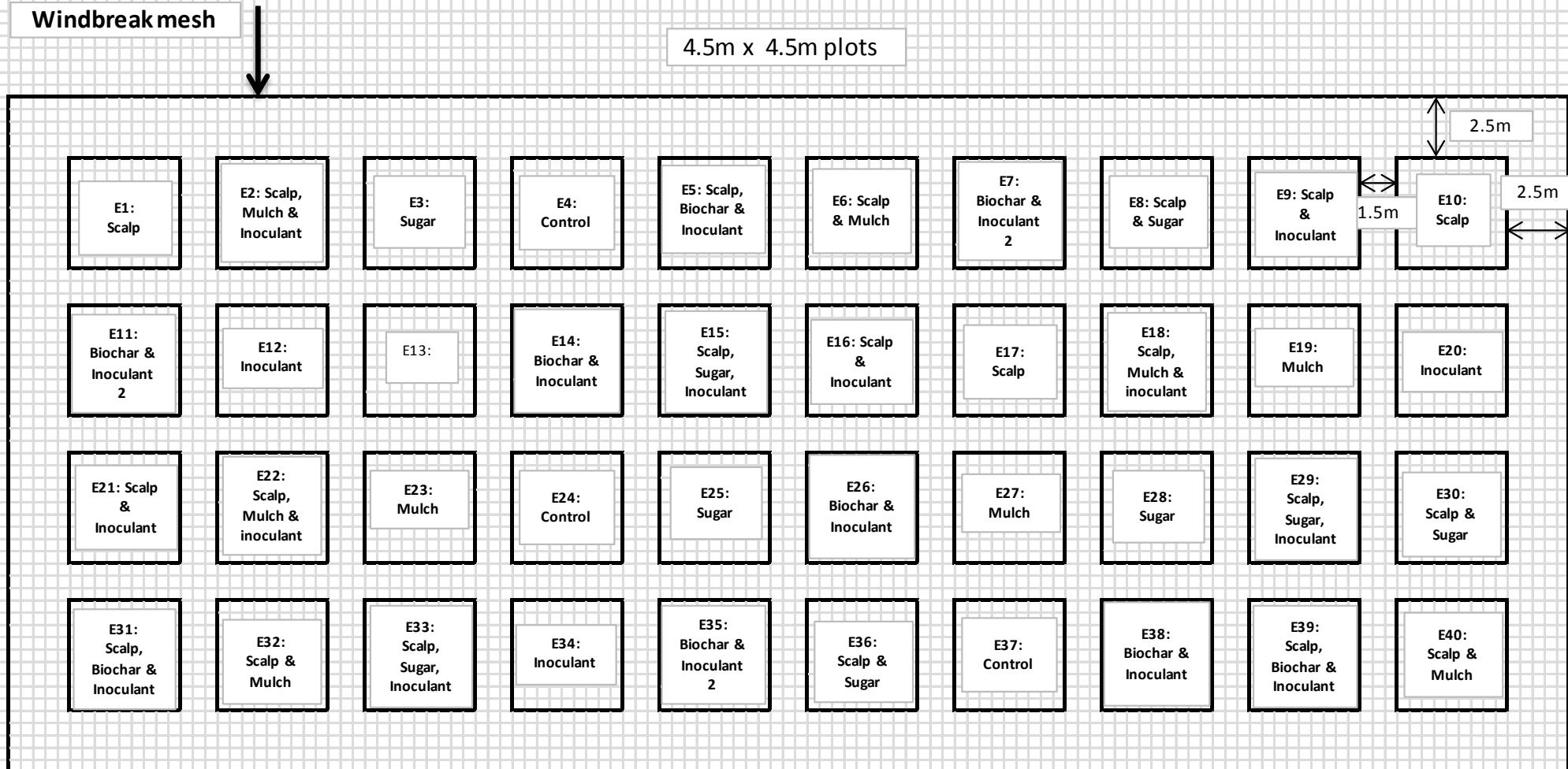
- The PRM Conservation Cluster consists of 93 trial site plots spread out over four locations.
- 24 plots are located on the Rosenberg property, 30 on Mardling and 39 on the Pipiriki site.





GGRP  
PRM  
TRIAL SITES  
E 1-39  
15/5/14

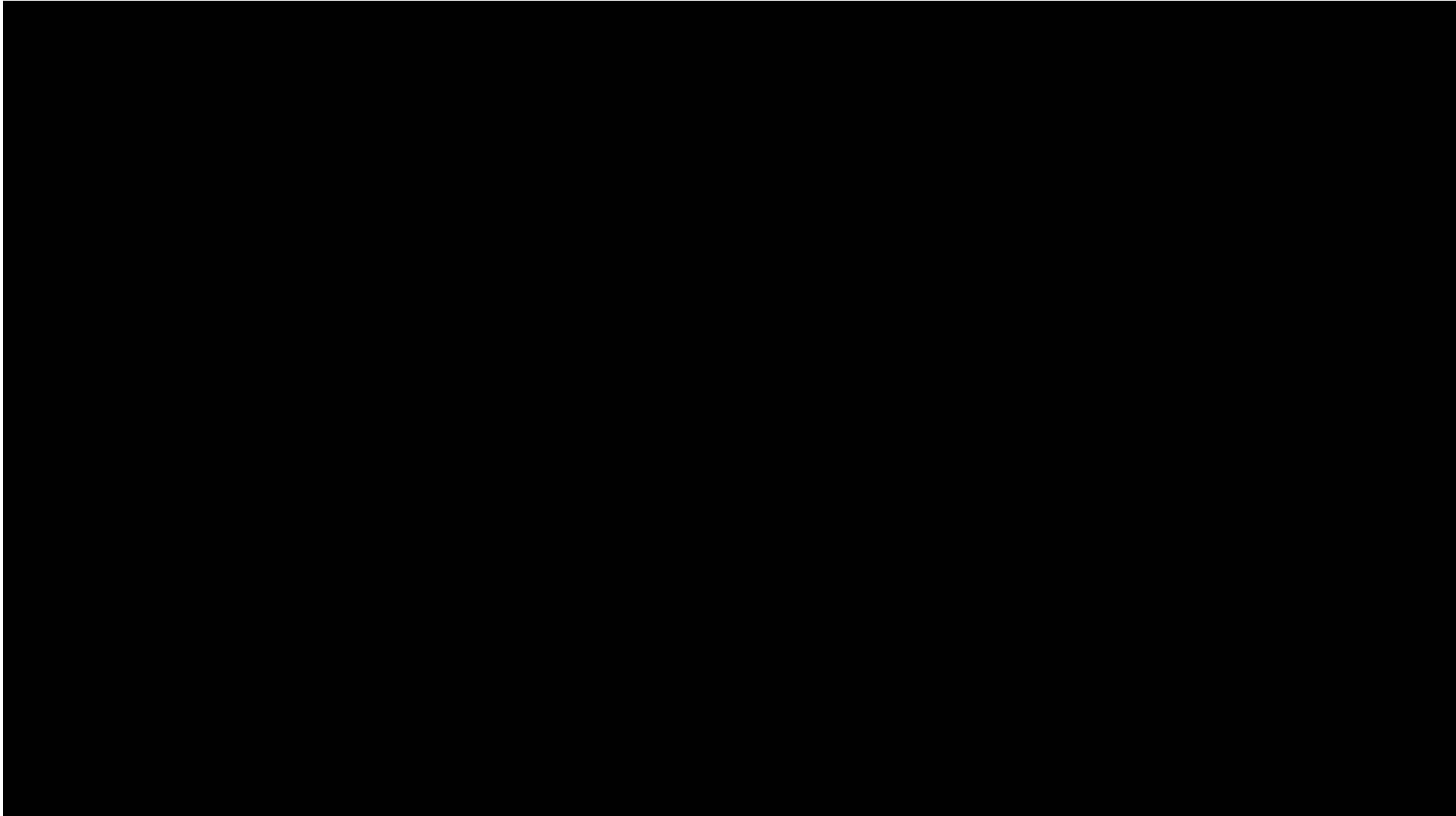
Grassy Ground-Cover Restoration Project PRM Trial Sites  
Edwards (Pipiriki) (Reconstruction)



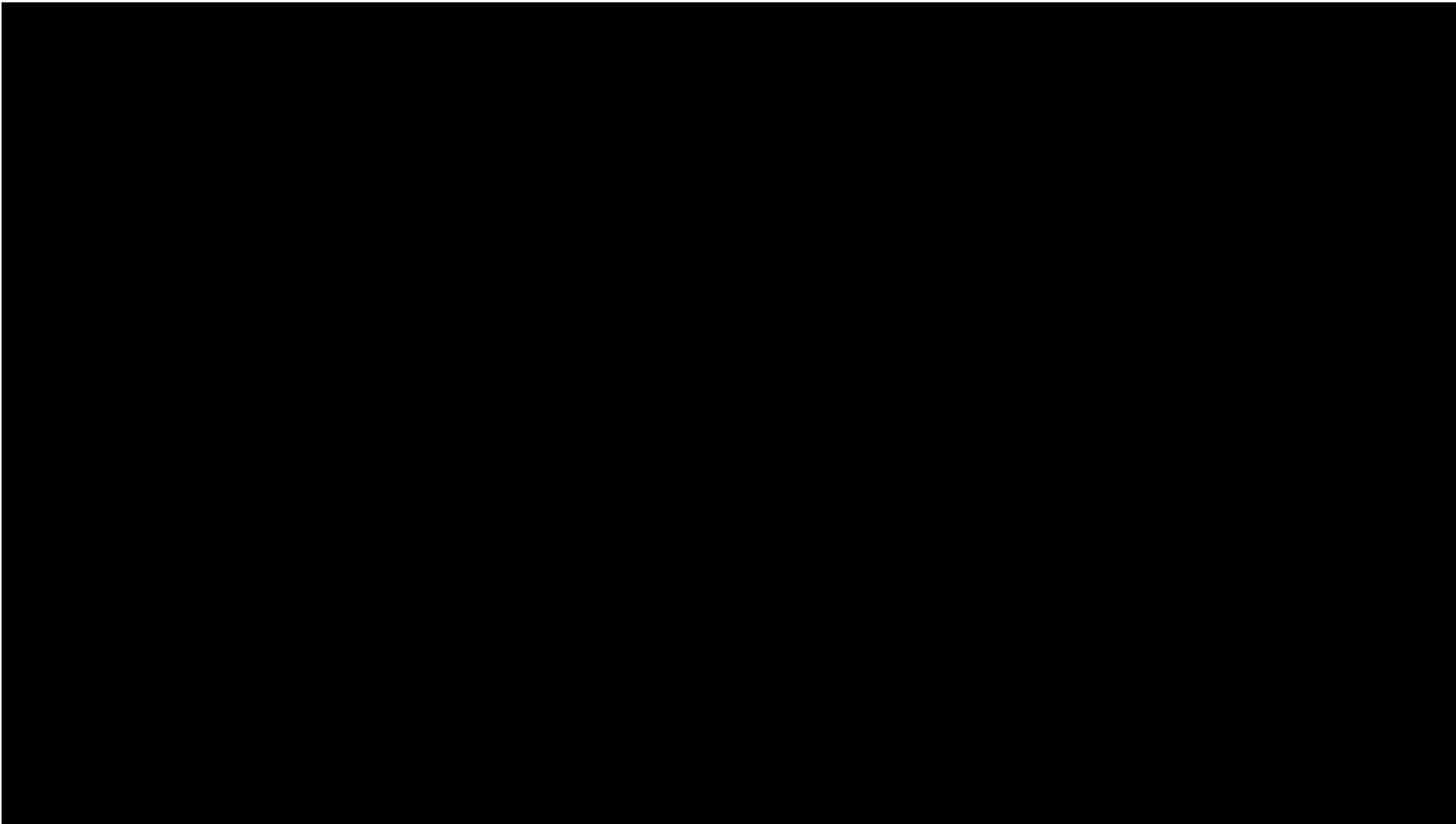
N

Scale: 1 square = 0.5 metre

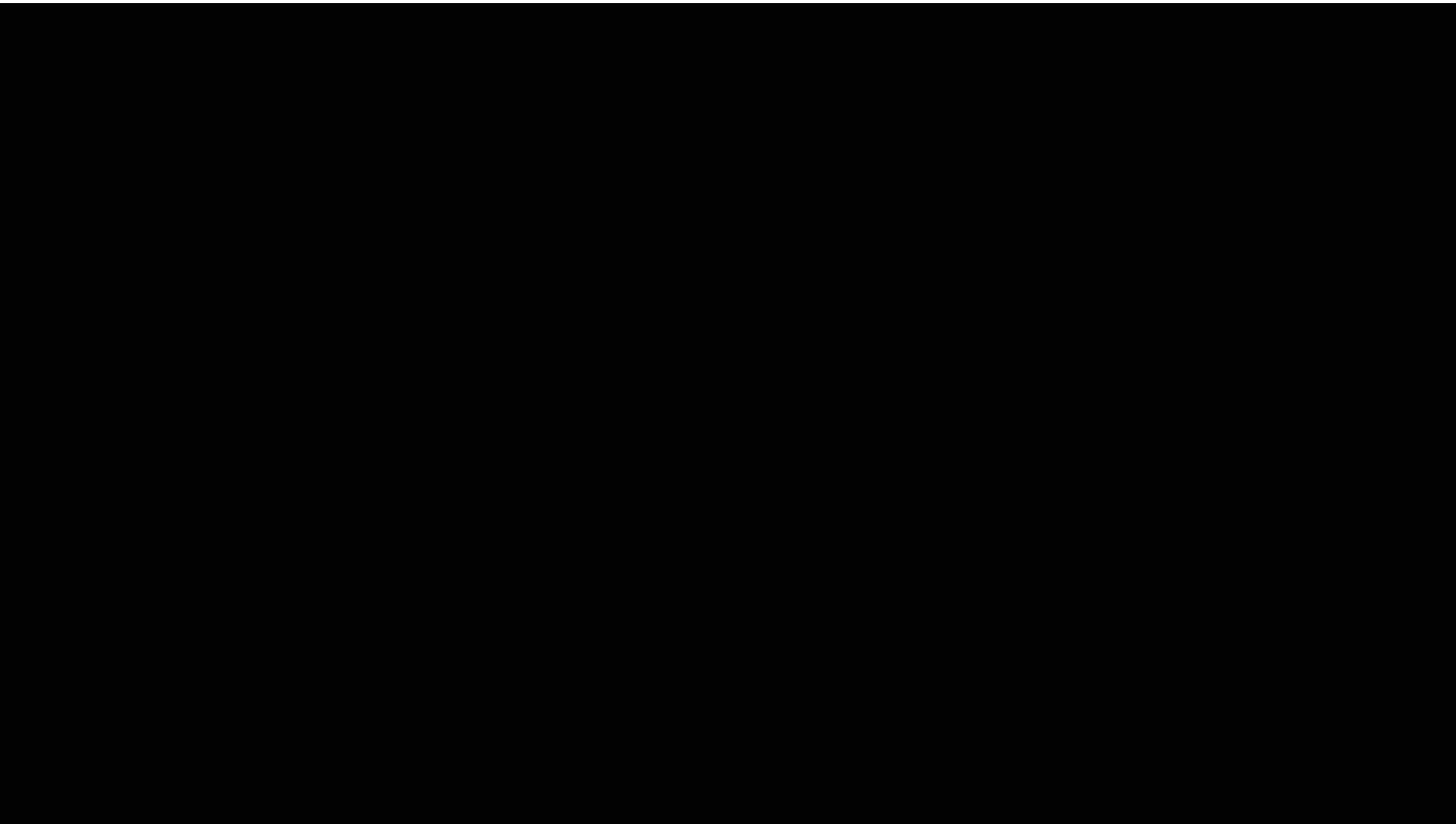
# E<sub>20</sub> Control



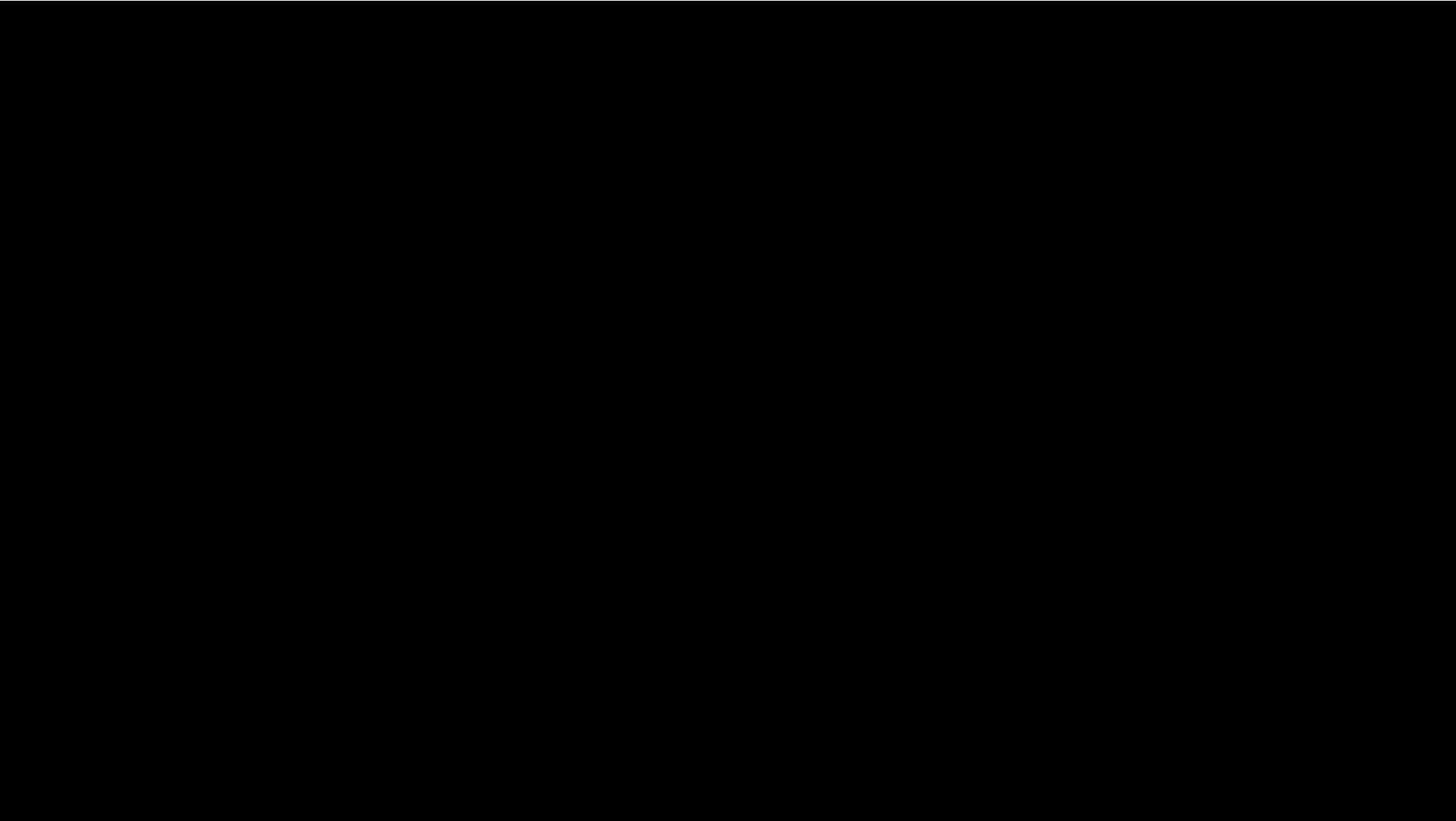
# R12 Scalp + Biochar + Inoculant



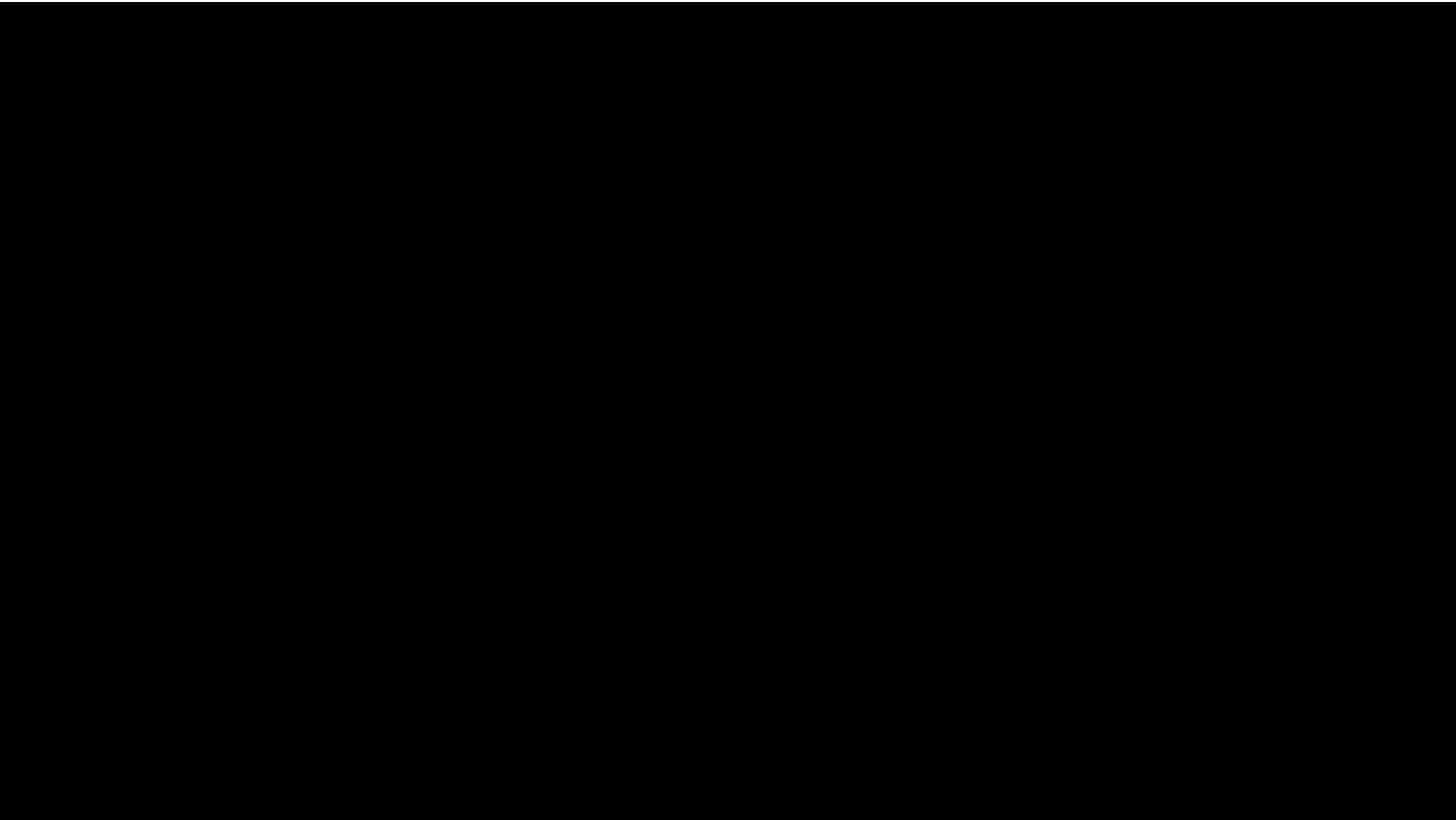
# M22 Scalp + Biochar + Innoculant



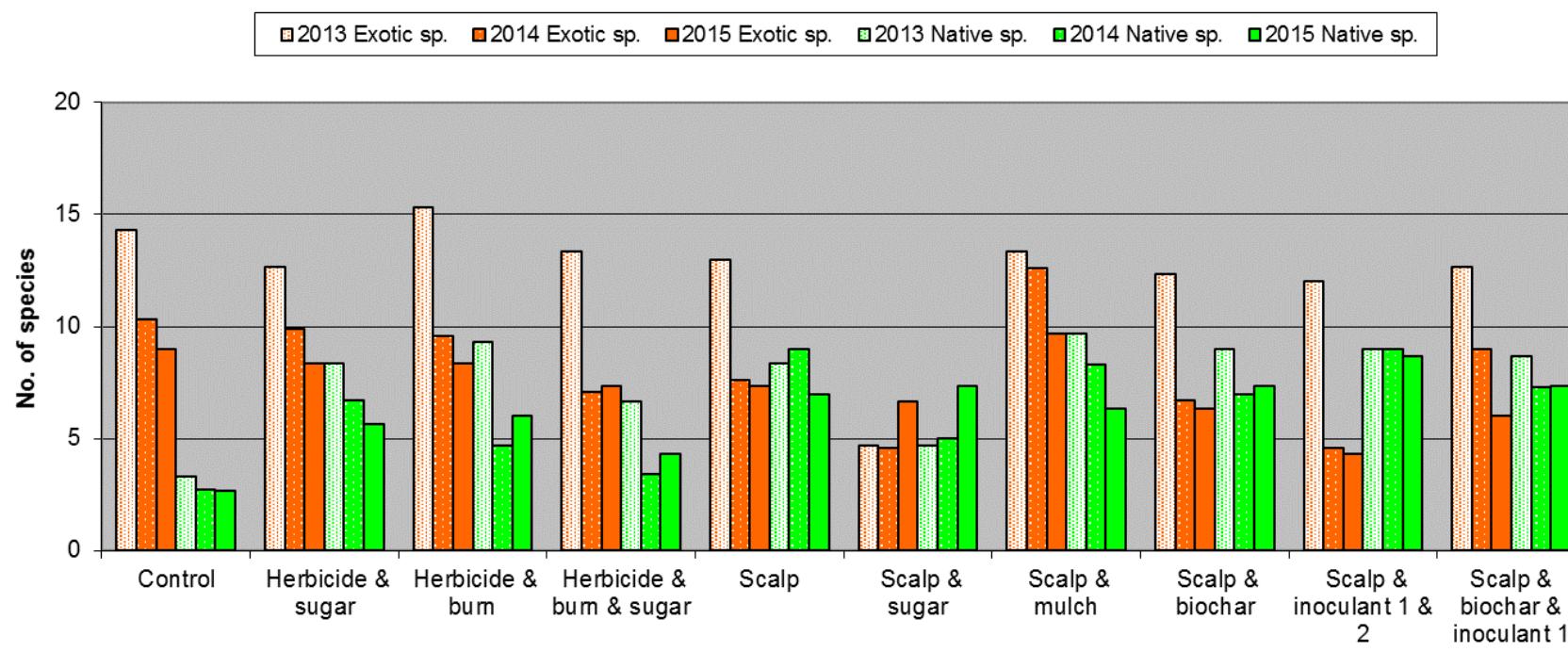
# M4 Scalp + Sugar



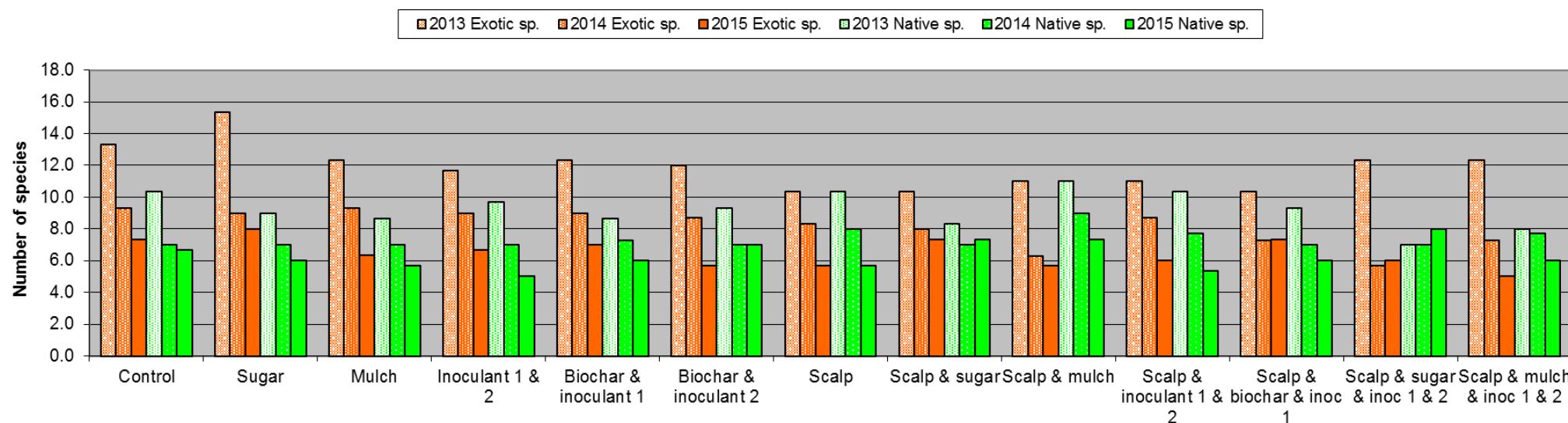
# E19 Mulch



### Number of native & exotic species in plot at M1-30 Nov 2013, 2014 & 2015



### Changes in biodiversity at E1-39, 2013-15



# Successful Grassland Restoration In the Upper Torrens Catchment

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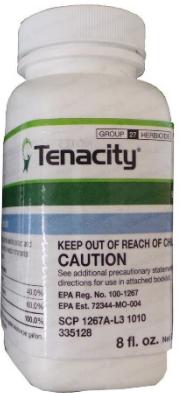
**95% weed control**

**strategy**

(Site preparation and management)

**5% everything else**

(Administration, strategy, seed, labour, logistics, funding, fencing etc...)



# Herbicide!! To what end?



















Seeding rates



Approximately  
60 kg per hectare



40 kg per hectare

A photograph of a field with dry, sparse grass. Scattered throughout the field are small yellow flowers, likely dandelions. The ground appears brown and parched in some areas.

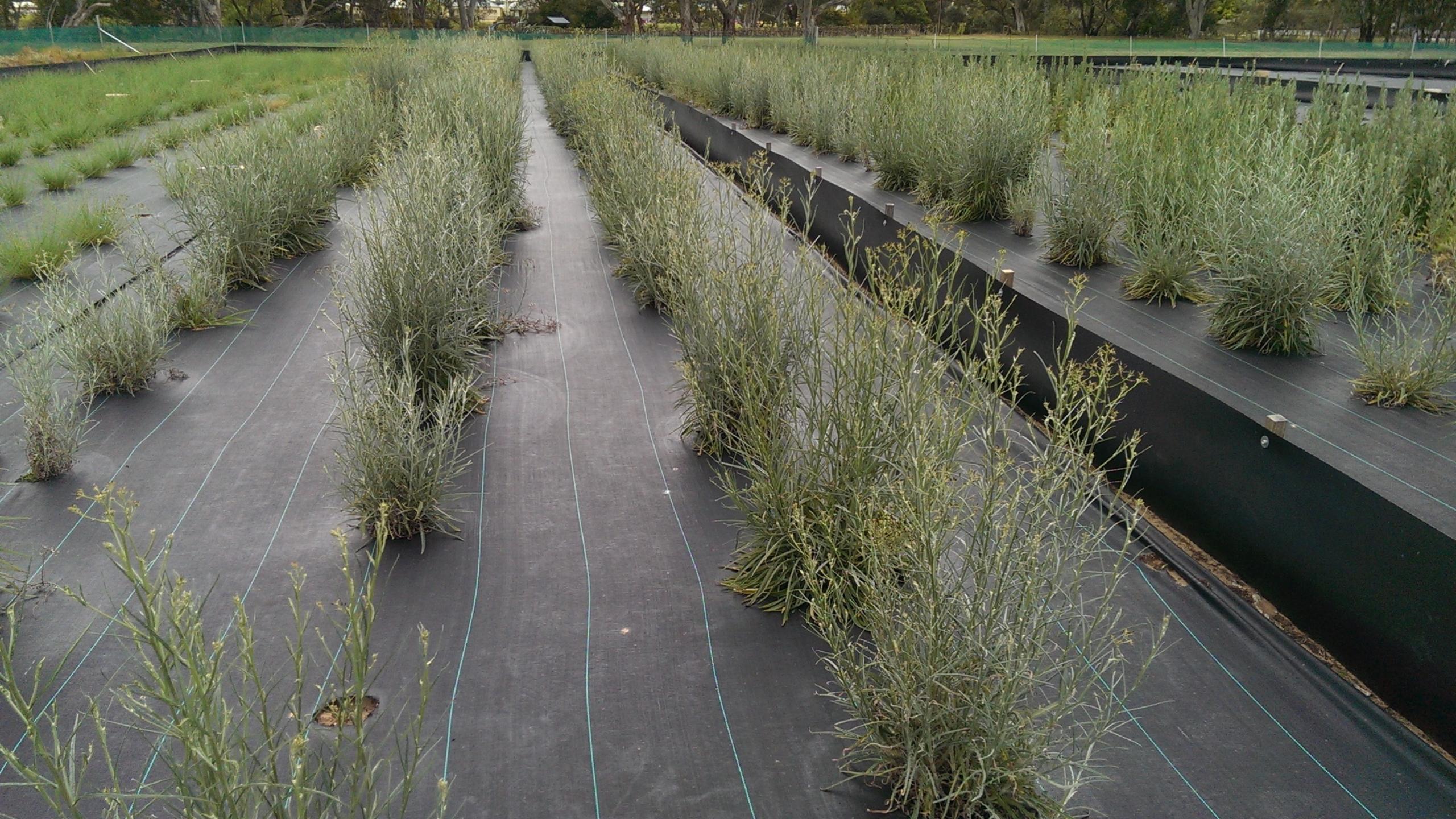
12 kg per hectare

# Seed Production





GRASS GRABBER







# *The future of native seed production in Australia??*



[agric.wa.gov.au](http://agric.wa.gov.au)



[Yarravalley.com](http://Yarravalley.com)



[Oregonstate.edu](http://Oregonstate.edu)

➤ Australian native species are generally slower to establish than exotic species

➤ Adaptive project management is essential.

➤ Local climatic conditions and seasonal characteristics are not constant nor are they necessarily predictable

➤ The right species selection for the site

95% weed  
control  
strategy

(Site preparation and management)

5% everything  
else