



Environmental Credentials Platform

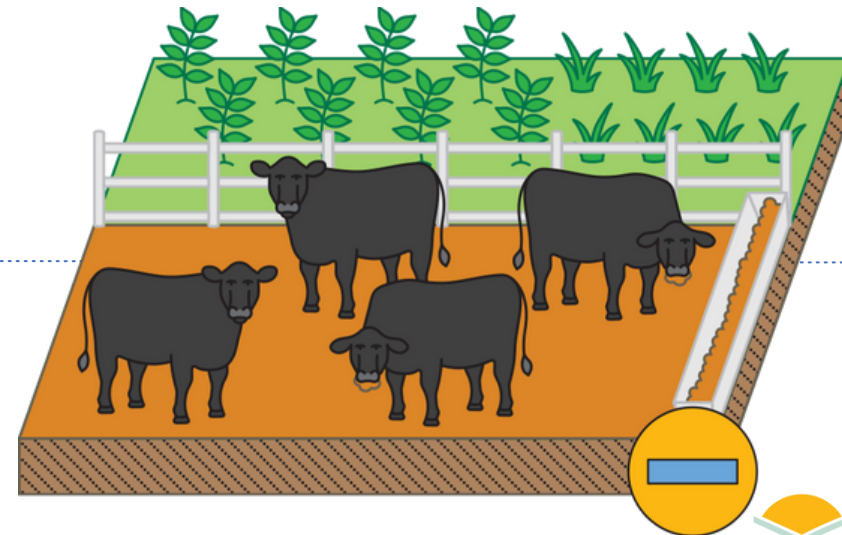
Presented by **Jenny Lim**
Project manager - Environmental Markets and
Sustainability

CN30 | **Carbon Neutral
2030**

CN30 roadmap

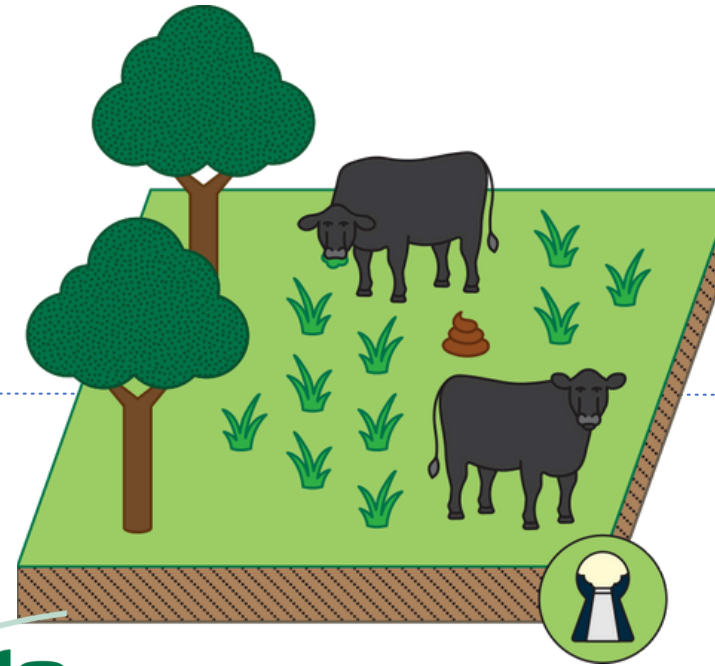


Industry leadership



GHG emissions avoidance

Grazing properties
Feedlots
Processing facilities



Carbon storage

Grazing properties



Integrated management systems

Rapid adoption
Carbon accounting
Measurement and reporting

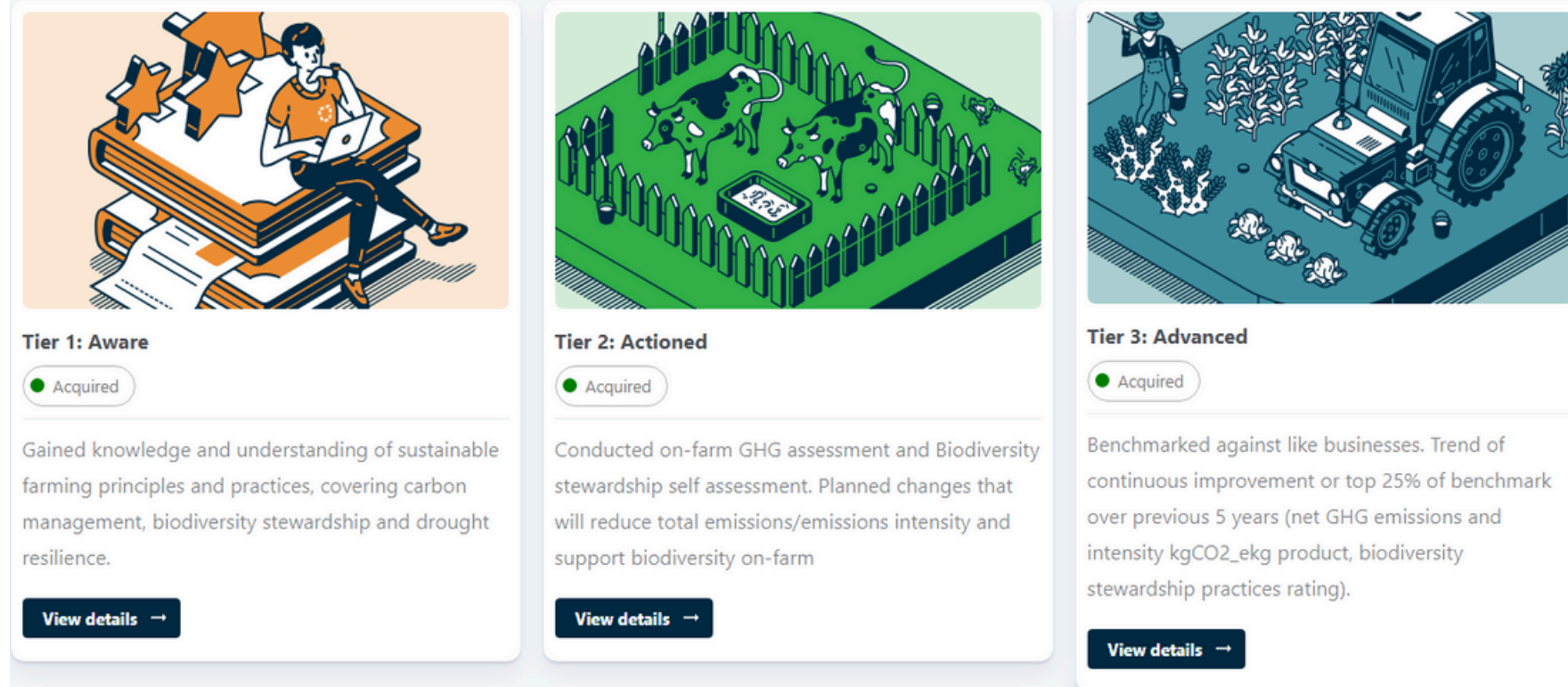
Marketing insights on carbon products

- Consumers are the driving force behind sustainability action, **brands are the driving force behind carbon neutrality.**
- **Any approach to carbon neutrality can be used.** Given purchase intent for cheaper alternatives is similar to those of more expensive options, there is an opportunity to start with an easier approach to carbon neutrality.



Background and design

- Started in March 2020
- Co-design process with 50 beef producers
- Utilise remote sensing tools
- Low to no cost
- Voluntary and confidential



Tier 1: Aware
● Acquired
Gained knowledge and understanding of sustainable farming principles and practices, covering carbon management, biodiversity stewardship and drought resilience.
[View details →](#)

Tier 2: Actioned
● Acquired
Conducted on-farm GHG assessment and Biodiversity stewardship self assessment. Planned changes that will reduce total emissions/emissions intensity and support biodiversity on-farm.
[View details →](#)

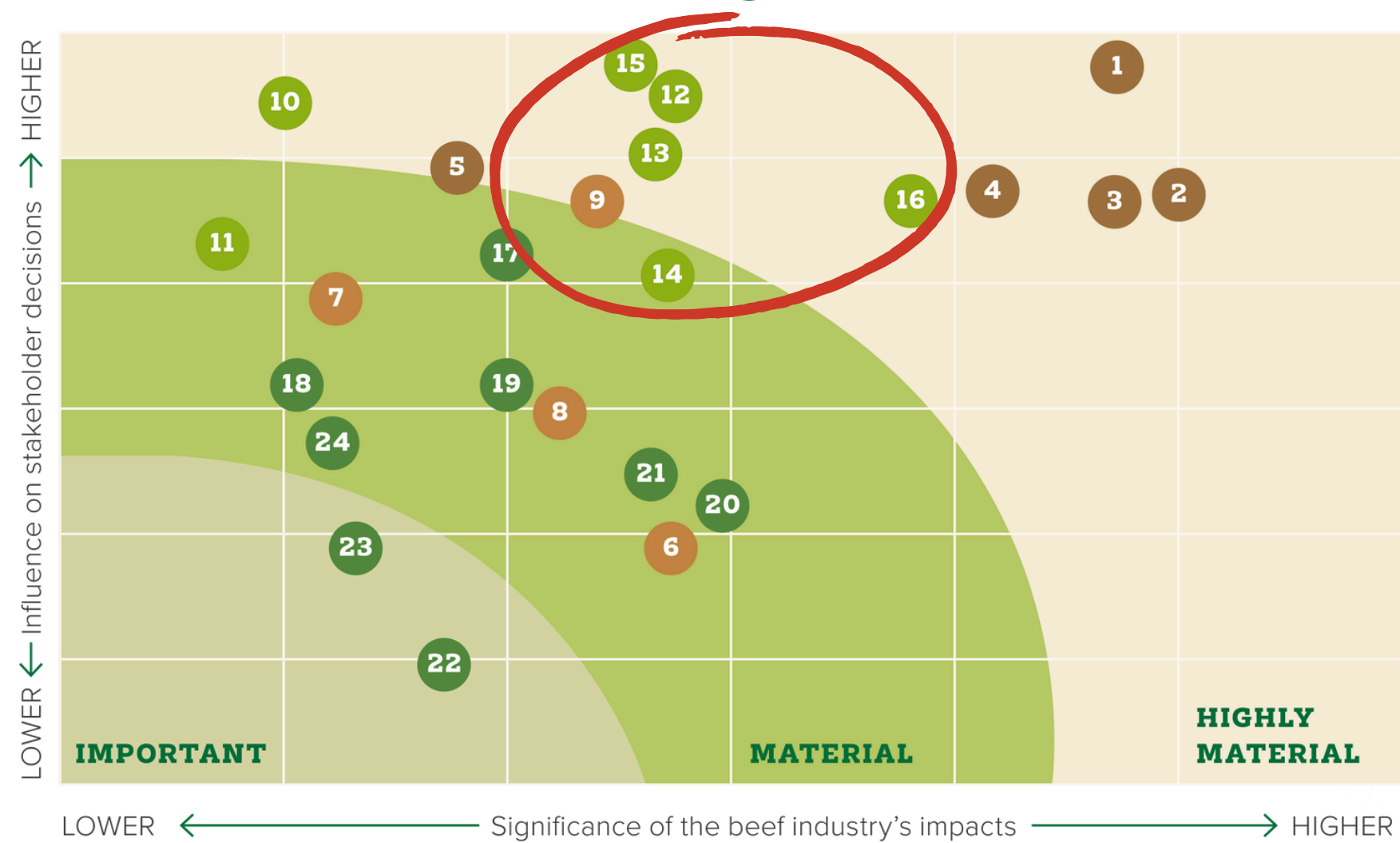
Tier 3: Advanced
● Acquired
Benchmarked against like businesses. Trend of continuous improvement or top 25% of benchmark over previous 5 years (net GHG emissions and intensity kgCO₂_ekg product, biodiversity stewardship practices rating).
[View details →](#)

Cost effective

Accessible

User friendly

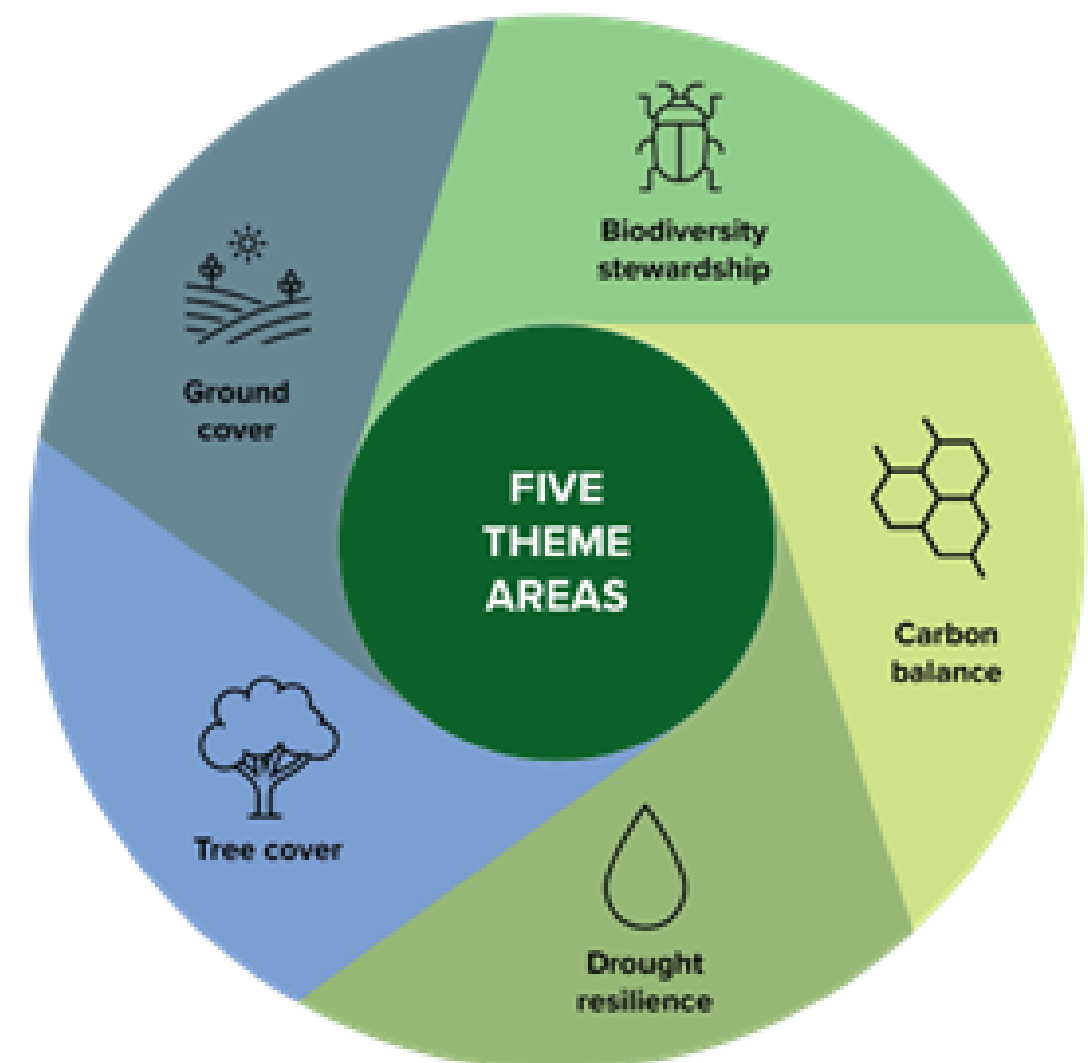
Materiality Assessment



Informed by an open survey of red meat customers

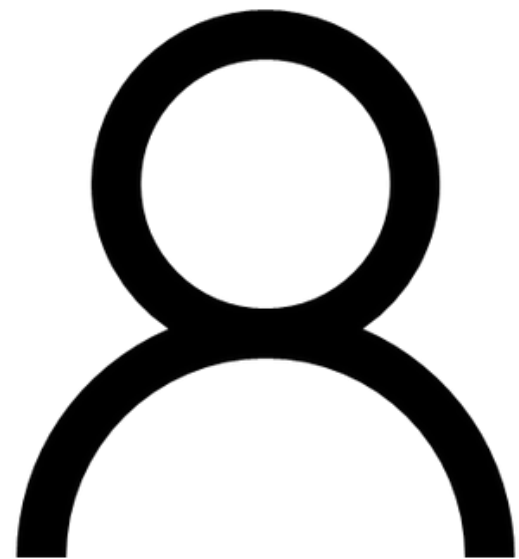
- Industry and consumer
- Shows where the priority areas are

 <p>Best Animal Care</p> <ol style="list-style-type: none"> 1. Animal husbandry 2. Processing practices 3. Livestock transport 4. Livestock health and welfare 5. Biosecurity 	 <p>Economic Resilience</p> <ol style="list-style-type: none"> 6. Productivity 7. Profitability 8. Market access 9. Climate change resilience 	 <p>Environmental Stewardship</p> <ol style="list-style-type: none"> 10. Water 11. Waste 12. Soil health 13. Balance of tree and grass cover 14. Groundcover 15. Biodiversity 16. Greenhouse gas emissions and carbon capture 	 <p>People and Community</p> <ol style="list-style-type: none"> 17. Food safety and quality 18. Diversity 19. Work, health and safety 20. Community contribution 21. Nutrition 22. Capacity building 23. Labour practices 24. Antimicrobial stewardship
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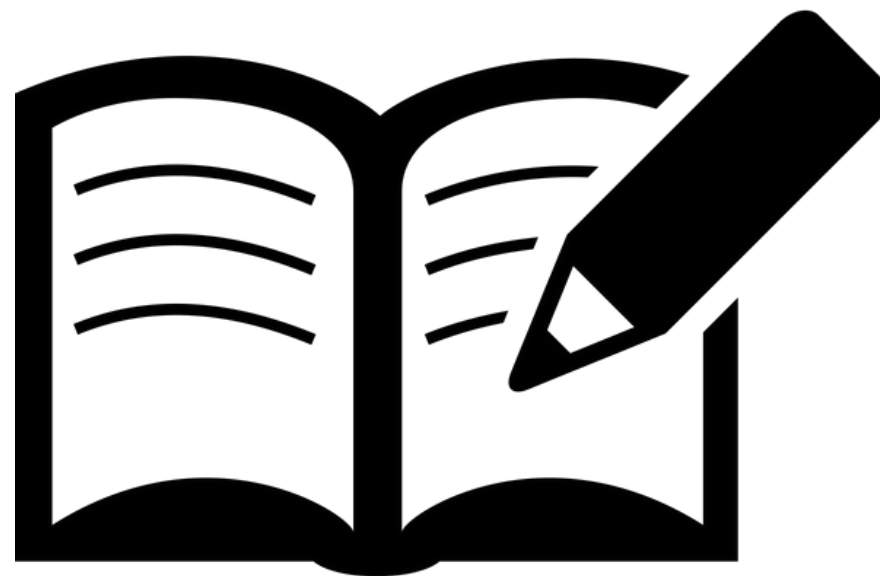


Pilot

- Platform was piloted at the end of 2023



100+
Users



500+
Learning Module
Completed
*Across 10 modules



45
Credentials
Acquired



Platform walkthrough

The screenshot shows a web browser at the URL `test.envcred.com.au/home`. The page header features the 'EC Environmental Credentials' logo. A left-hand navigation menu includes: Home, Learning Library, My Credentials, My Properties, Shared Credentials, FAQ, Resources coming soon, Login as Georgia, and Logout. The main content area is titled 'Home' and 'Welcome, Georgia' with the prompt 'What would you like to do today?'. It contains four interactive cards: 'Continue learning' (with a computer and lightbulb icon), 'View my credentials' (with a person and magnifying glass icon), 'Update my property details' (with a green field and fence icon), and 'View shared credentials' (with a person and magnifying glass icon).

Environmental Credentials For Grassfed Beef

Version 2 improvements

- Update learning modules as new information becomes available
- Additional learning modules to encourage continued learning
- Incorporate other technologies and platforms
- Expand the relevance to other production systems
- API integrations for in product sharing with other end users
- Further customisation of reports and supporting information
- Mobile compatibility




<https://www.mla.com.au/extension-training-and-tools/environmental-credentials-platform/>

Carbon Calculator

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mia
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INTERNA



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DASHBOARD

- My Carbon Calculations
- Resources
- Help






ACCOUNT

- Information

My Carbon Calculations

Consult, edit or create carbon calculations.

⚠ You have selected to open the calculator as an **Anonymous** user, your calculations will not be saved after completion. To save your calculations log-in with your myMLA account.

PROPERTY NAME VERSION YEAR  BEEF  FEEDLOT  SHEEP  GOAT  CROP

Carbon Calculation

New property1 2024-2025

1 Data input 2 Calculations 3 Results

Property information
Farm name, location and production.

[Edit Property](#)

Livestock inventory
Beef, Sheep and Goat livestock inventory.

[Edit Beef](#) [Edit Sheep](#) [Edit Goat](#)

[Edit Feedlot](#)

Crop plantations
Crop plantations details.

[Edit Crop plantations](#)

Energy
Energy usage on farm.

[Edit Energy](#)

Trees plantations
Trees carbon sequestration.

[Edit Vegetation](#)

Off-farm usage
Additional Off-farm usage.

[Edit Off-farm usage](#)


Transport
Distance and vehicle type for Feedlot only

[Edit Transport](#)

Soil & Remnant vegetation
Soil testing result & Remnant vegetation.


[Edit Soil & Remnant vegetation](#)

Results successfully computed for **Example property 2023-2024** with a total of **2992 t CO2** PDF Recompute Combine




Beef

729 t
788 t (excl sq)




Sheep

682 t
729 t (excl sq)



Crop

1582 t
1611 t (excl sq)



Total

= 2992
t CO₂e / year

Results Table Emissions Intensity **Breakdown** Management Strategy

Scope 1 Emissions per GHG

GHG values are in CO₂ equivalent.

CO₂: 692 t CH₄: 1276 t N₂O: 678 t

Total: 2646

Major Emissions

Responsible for > 2% of your property total.

Enteric Fermentation	35%
Fertiliser	21%
Lime	20%
Crop residues	7%
Savanna or Field Burning	5%
Urea	3%

[See Management Strategy →](#)

Carbon Calculator

Quick Start Carbon Calculator

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Carbon eLearning packages

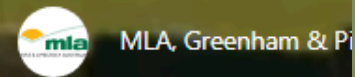


Online training, tools and resources

INTRODUCTION , SUSTAINABILITY

Carbon 101

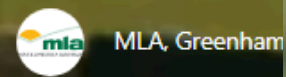
View training package details



INTERMEDIATE , SUSTAINABILITY

Measuring your own emissions

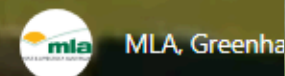
View training package details



INTERMEDIATE , SUSTAINABILITY

Carbon Sense

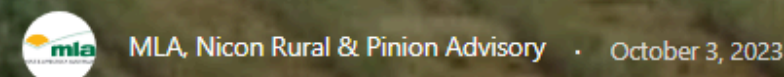
View training package details



INTERMEDIATE , SUSTAINABILITY

Carbon in action

View training package details



October 3, 2023



Start training package

Open registration

TRAINING PACKAGE INCLUDES

- 6 Items
- 2 Quizzes
- Training package Certificate

Training package

Overview

This module will provide relevant to agriculture (in language of carbon).

Additional resources and

Training package

Overview

The following eLearning module will provide an emissions estimation tool.

Before you begin we will hand all the data you need in a more user friendly and easier. It's recorded.

Training package

Overview

This learning module will help you to reduce emissions from your farm through carbon sequestration and

The development of this module was supported by Pinion Advisory

Training package Materials

Overview

This module will walk you through how to use the Quick Start Carbon Calculator to estimate greenhouse gas emissions from your farming operations. It also gives an estimate of how much pasture growth and tree planting would be necessary to balance the emissions on your farm.

Quick Start Carbon Calculator


- High level estimate of carbon position and inset potential
- Minimum time/data input required (relative to full version)
- Tool for getting started with developing an emissions reduction action plan

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INTERNA






Quick Start Carbon Calculator
Calculate your carbon emissions

1 Property Information — 2 Livestock Inventory — 3 Vegetation and Soils — 4 Results

 **Property Information**
Farm area and location.

 In this section, you will enter general information about your farm, which will help calibrate the emissions calculator for your area. There are three fields to complete. Please enter data in the space provided next to each question. For those fields with an arrow next to them, you can simply choose from the drop-down list most appropriate to your property. If you have multiple and geographically diverse properties, it will be more accurate if you treat each property separately.

My Property is set on a total area of 1000 ha,
located in the state of New South Wales  in the zone Central West 

annual rainfall is estimated to be 520 mm.

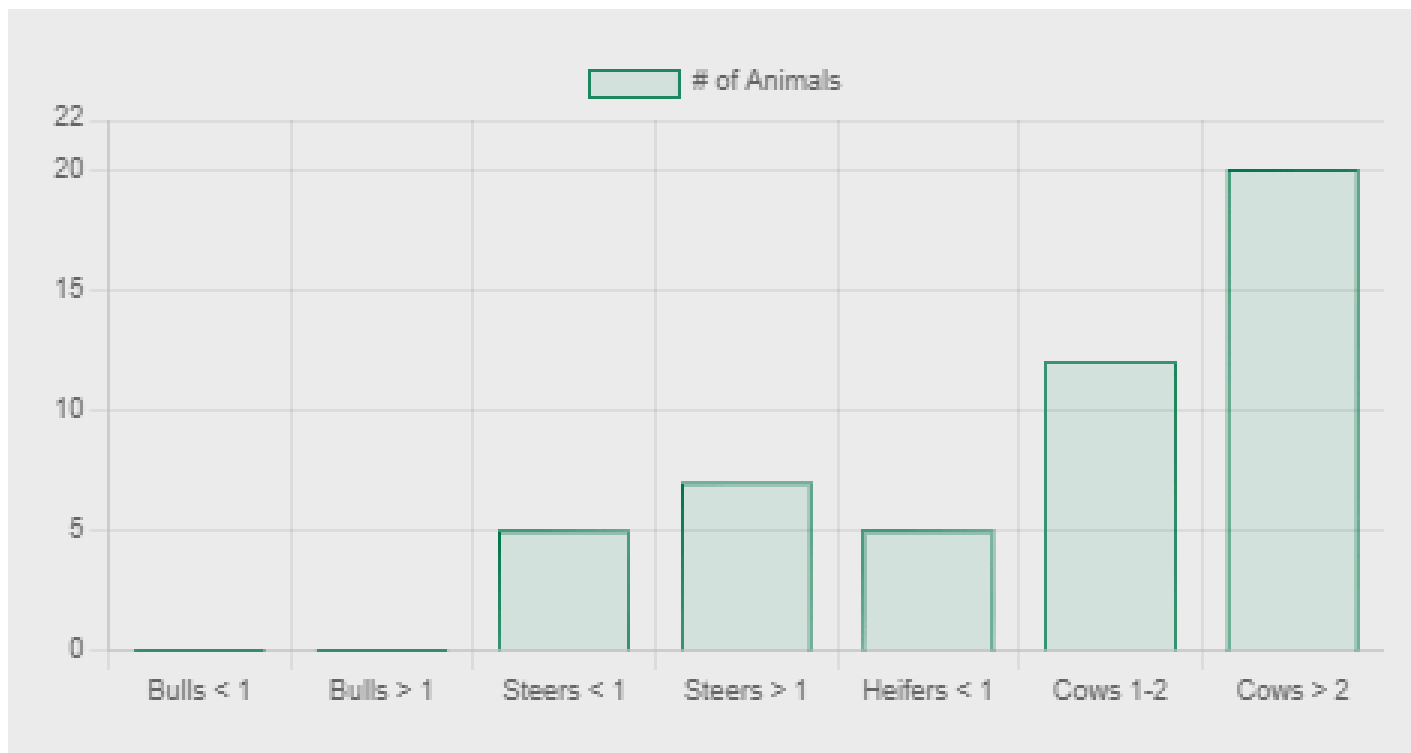
Previous **Quick Start Carbon Calculator** Next



Livestock Inventory
Beef & Sheep livestock inventory.

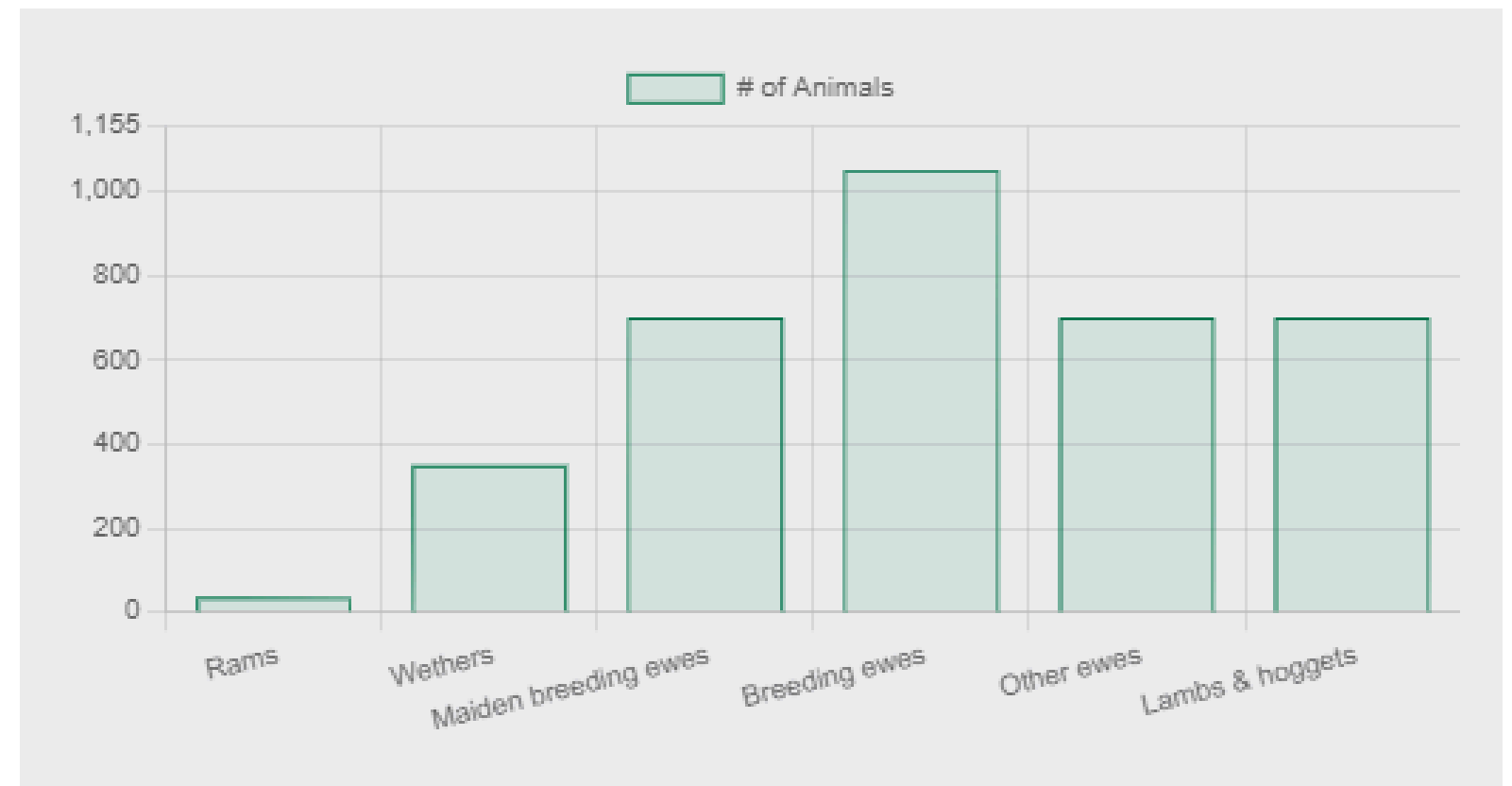
My Beef cattle herd size is 50 head.

i You can **drag** each bar to adjust the number of animals per group.



My Sheep flock size is 3500 head.

i You can **drag** each bar to adjust the number of animals per group.



[Previous](#)

[Next](#)

✔ Property Information – ✔ Livestock Inventory – ✔ Vegetation and Soils – ✔ Results



Vegetation and Soils

Trees, pastures and soils

Pasture

Area under pasture
800 → **900** ha ?

Dominant pasture species
Temperate grass, clover – Sta... ?

Dominant soil type
Sand, loamy sand ?

Vegetation

Area under trees
200 → **100** ha ?

Dominant tree species
Mixed species ?

Previous

Next

[MLA privacy policy](#)

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✔ Property Information · ✔ Livestock Inventory · ✔ Vegetation and Soils · ✔ Results



Beef
81 t



Sheep
818 t



Vegetation
-1877 t



Total ?
-889 t

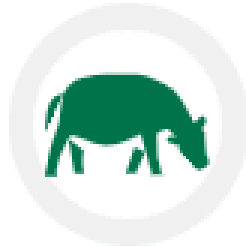
i The simple tool used in this module estimates other emissions to be 10% of total annual livestock emissions. Other emissions may include emissions generated from fertiliser or crop protection chemicals, electricity use, fuel, burning vegetation or other emissions generated in the supply chain "upstream" from your enterprise. These figures are typical of an Australian livestock business. The majority of emissions will be from livestock, so the estimate you will see will be the emissions from your livestock, plus ten percent to take into account the above factors.

✔ Based on your inputs, your property is already carbon negative.

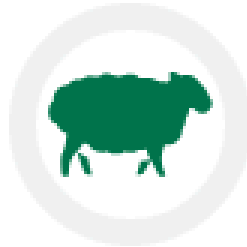
i **MLA - Carbon Calculator** - Click here to access the full version of Carbon Calculator for a more comprehensive calculation.

Previous

✓ Property Information · ✓ Livestock Inventory · ✓ Vegetation and Soils · ✓ Results



Beef
81 t



Sheep
818 t



Vegetation
-939 t



Total ?
49 t

i The simple tool used in this module estimates other emissions to be 10% of total annual livestock emissions. Other emissions may include emissions generated from fertiliser or crop protection chemicals, electricity use, fuel, burning vegetation or other emissions generated in the supply chain "upstream" from your enterprise. These figures are typical of an Australian livestock business. The majority of emissions will be from livestock, so the estimate you will see will be the emissions from your livestock, plus ten percent to take into account the above factors.

What percentage of your emissions would you like to inset? ?



Proportion of sequestration by soil and trees



By Soil ?

Additional pasture growth required is **0.01 t/ha/yr**
Or, **100%** of the current pasture production (currently 6.96 t/ha/yr)

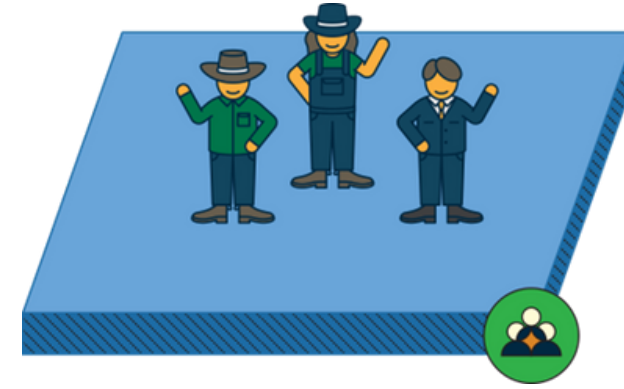
By Trees ?

Additional revegetation or woodland required is **1.05 ha**.
Or, **101%** of the current area under trees (100 ha)

i **MLA - Carbon Calculator** - Click here to access the full version of Carbon Calculator for a more comprehensive calculation.

Previous

Carbon EDGE



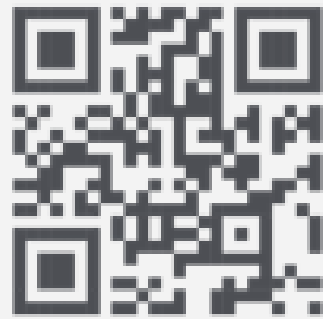
- 2-day training workshop
- Upskills producers in opportunities to reduce emissions and increase sequestration.
- Producers complete a carbon account.
- Producers identify what actions they can take to reduce emissions or sequester carbon.
- Develop a carbon action plan that aligns with their business goals.



Links and resources

Carbon calculator

Create a comprehensive calculation of total enterprise greenhouse gas emissions

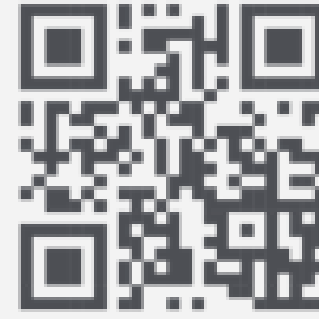


<https://carbon-calculator.mla.com.au/>

<https://quick-start-carbon-calculator.mla.com.au/>

Carbon eLearning modules

Foundational information about carbon farming and greenhouse gases relevant to agriculture



<https://elearning.mla.com.au/courses/?search=&filter-categories=sustainability>

<https://www.mla.com.au/extension-training-and-tools/carbon-edge/>

Environmental Credentials platform

A user-friendly platform for producers to show their on-farm sustainable practices



<https://www.envcred.com.au>

<https://www.mla.com.au/extension-training-and-tools/environmental-credentials-platform/>

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