



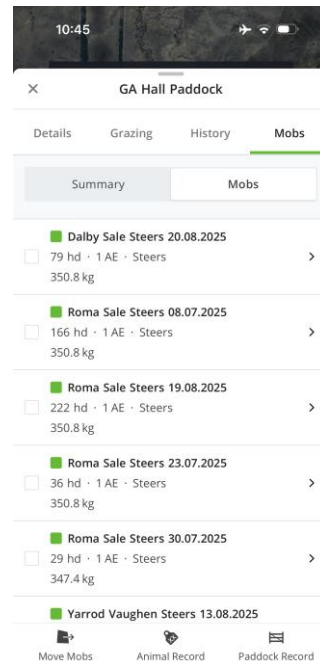
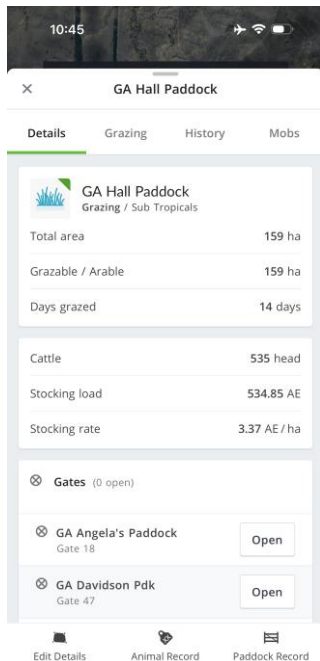
beefup FORUM

Morven, QLD 2026

Ag tech Tools

John Frith

Glen Arden Cattle Company



Agriwebb Per Paddock Performance

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Agriwebb Per Paddock Performance

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Paddock performance at Glen Aerde... • Last Modified: 11/08/2025

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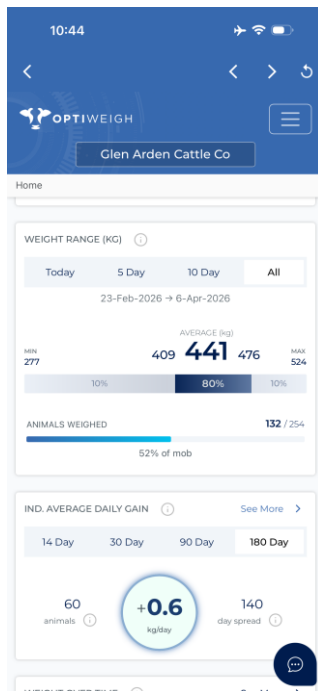
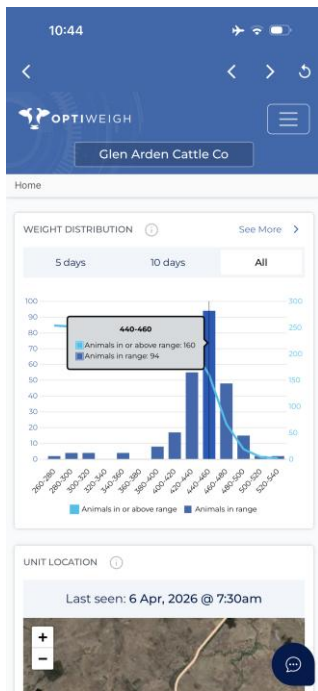
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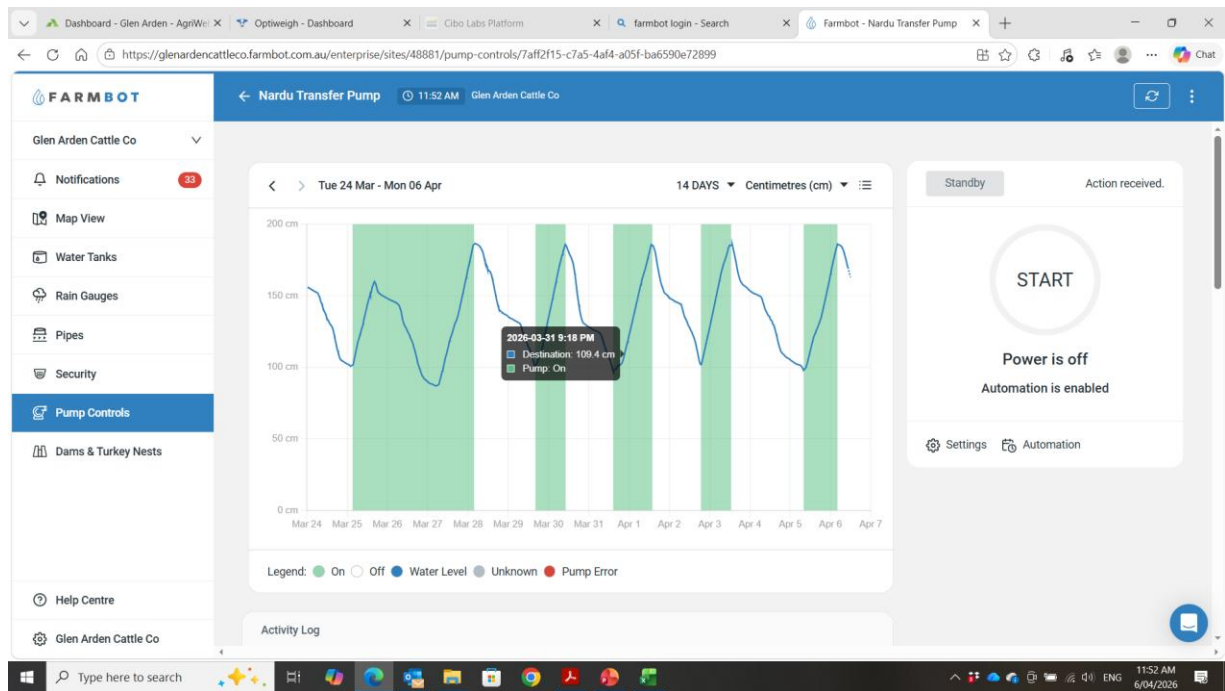
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Optiweigh



Farmbot



Farmbot

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Water Tanks

Rain Gauges

Pipes

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Pump Controls

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Help Centre

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Water Tanks 11:52 AM Glen Arden Cattle Co

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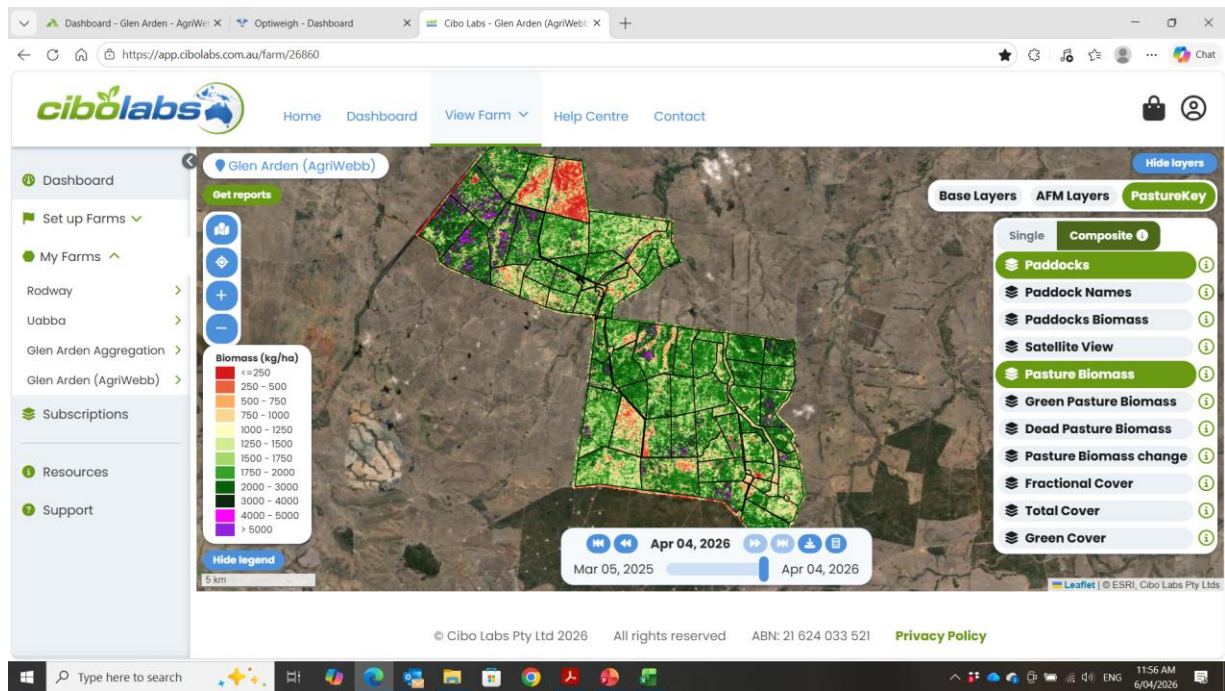
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Name (6)	Trend	Level	Volume	Capacity	Alert ¹	Device Status
Back Oats	→ Steady	200 cm	45,000 L	100%		
Mtn Country	→ Steady	237 cm	20,000 L	100%		
Nardu Back Rhino	↘ 4.6 cm/h	163 cm	192,229 L	84%		
Nardu Rhino Tank	→ Steady	192.5 cm	264,650 L	96%		
Uabba Back Tank	↘ 3.8 cm/h	155 cm	182,838 L	79%		
Uabba House Tank	→ Steady	132.7 cm	189,136 L	66%		

11:52 AM 6/04/2026

Cibo Labs



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Resources
Support

Calculator Result ⓘ

How many stock can I carry within a period? ⓘ

How many grazing days available for my stock? ⓘ

Start Date ⓘ 06/04/2026 ⓘ

End Date ⓘ 31/12/2026 ⓘ

Anticipated Pasture Growth (kg/HA) ⓘ 250

Average Feed Demand (kg/day/head) ⓘ 8.5

Minimum Residual ⓘ 1500

Default Unusable (%) ⓘ 0

Default Wastage (%) ⓘ 05

Default Unpalatable 3Ps (%) ⓘ 0

Default Utilisation Rate (%) ⓘ 30

Calculator Outcome ⓘ

AE ⓘ DSE ⓘ

Calculator Level ⓘ

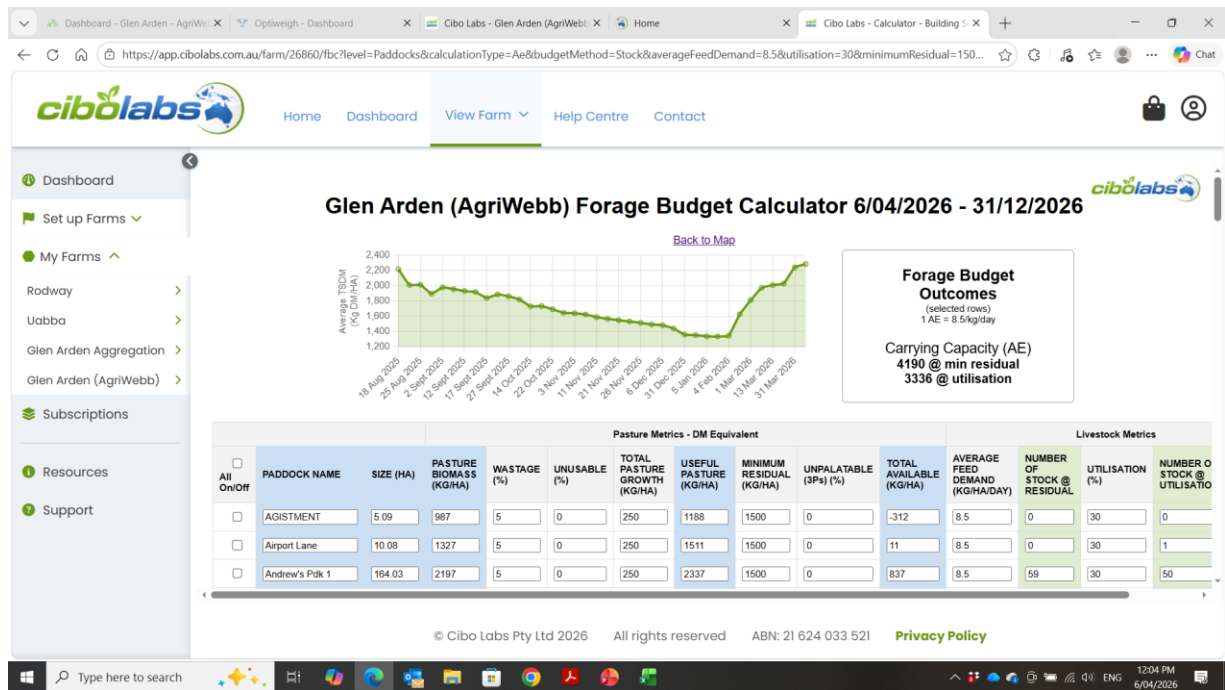
Paddock ⓘ Farm ⓘ

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Cibo Labs



Tools we use

- Farmbot
- Agriwebb
- Herdflow
- Optiweigh
- Cibo Labs

Take home messages

- Understanding what is actually creating value for your business
- Learning how to use the tools to create profit

Next steps: tools and resources



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Steak and Wood Project

Opportunities and limitations for graziers in managing privately owned native forests

Bill Schulke

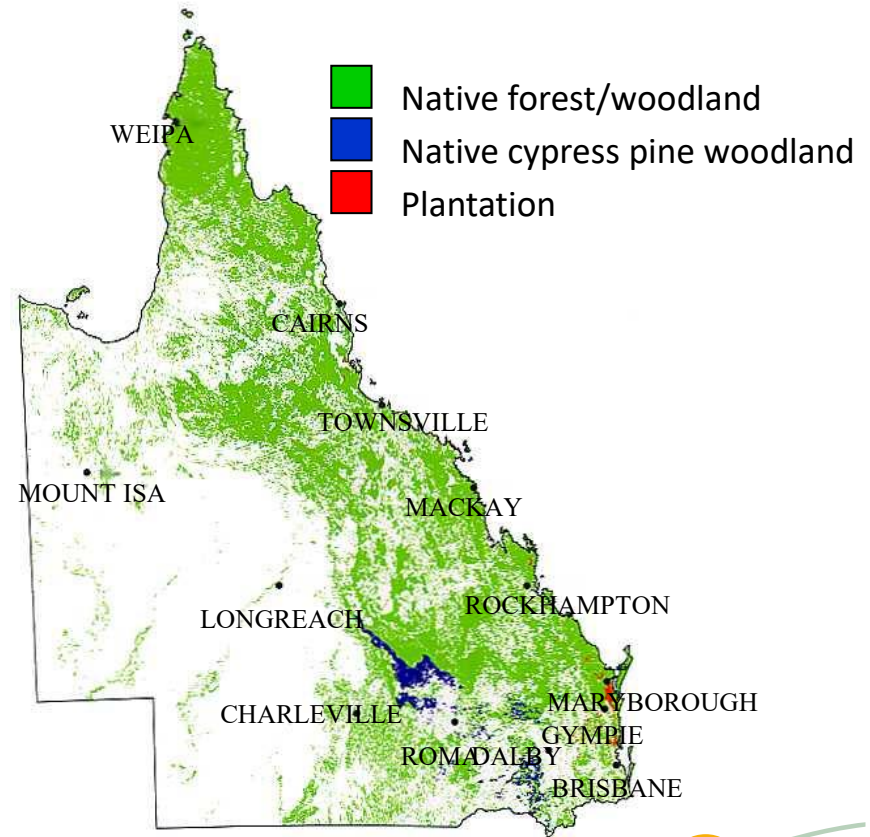
Private Forestry Service Qld

Key Points

- Much of Qld contains grazed woodlands. Tree clearing is regulated.
- Trees impact grazing productivity. In some cases, trees have an inherent value
- Brief regional overview of the timber industry
- Opportunities for managing trees and grass – Silvopastoralism
- Key outcomes from the Steak and Wood Project
- Potential for biofuel industry to increase investment in PNF to grow more wood

Trees and grazing

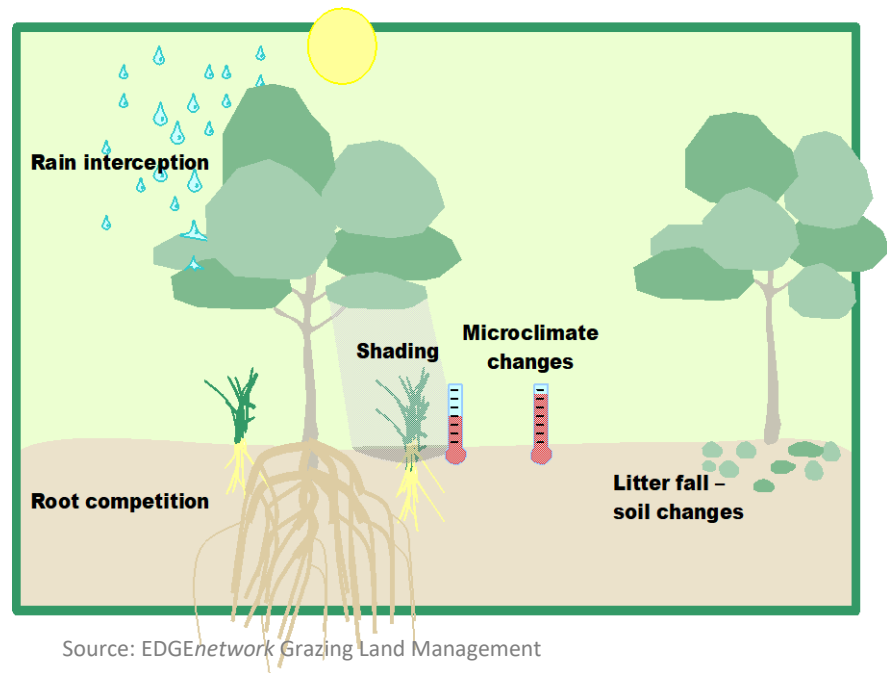
- Qld 177 Mha
- 112 Mha (65%) used for grazing
- 96 Mha woody vegetation
- 52 Mha Forest
- For most graziers in Qld, managing their land and businesses means managing the mix of **livestock, grass and trees.**



Impacts of trees on grass

Positive impacts of trees

- Trees impact on nutrient and hydrological cycles
- Some production benefits; often different suite of grasses grow in association with trees
- Provide shade and shelter
- Ecological benefits of trees
- At low densities trees may enhance cattle production
- Trees can have an inherent value (timber, fodder and carbon)

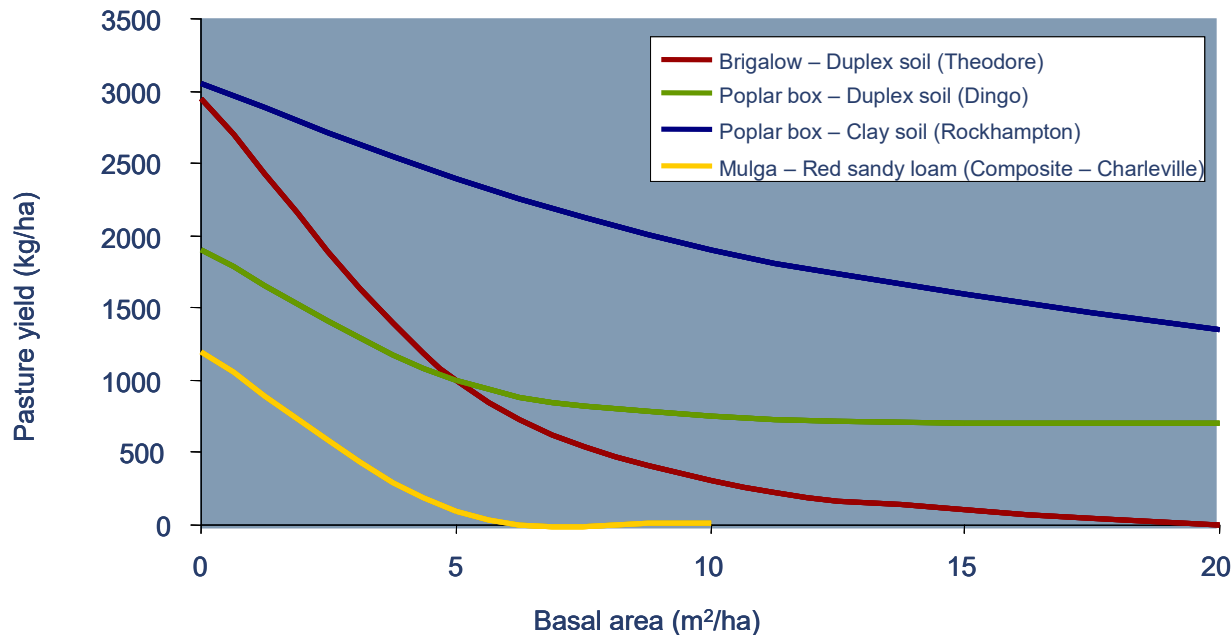


Source: EDGEnetwork Grazing Land Management

Impacts of trees on grass

Negative impacts of trees

- Net competitive effect (mostly for moisture) takes over
- Reduced grass production = Reduced carrying capacity
- Impacts on mustering efficiency



Source: EDGENetwork Grazing Land Management

Restrictions

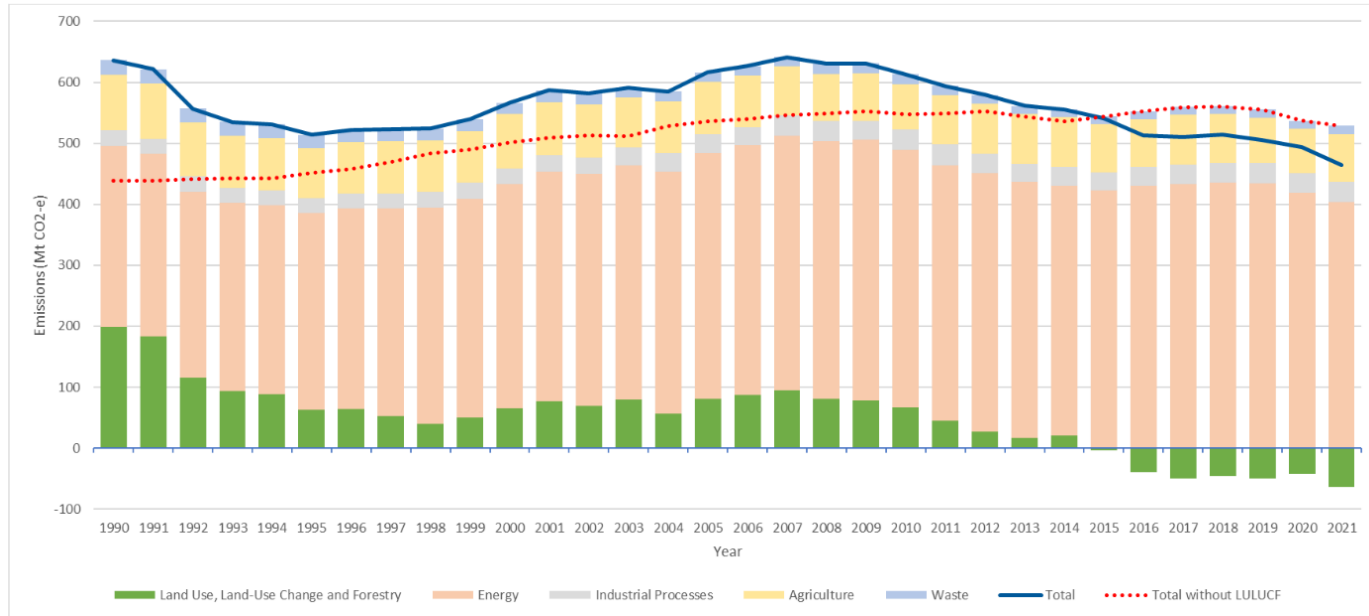
Legislative

- State Legislation - Vegetation Management Act (VMA) – 1999
- Federal Legislation - Environment Protection and Biodiversity Conservation Act (EPBC) - 2025

Market Based

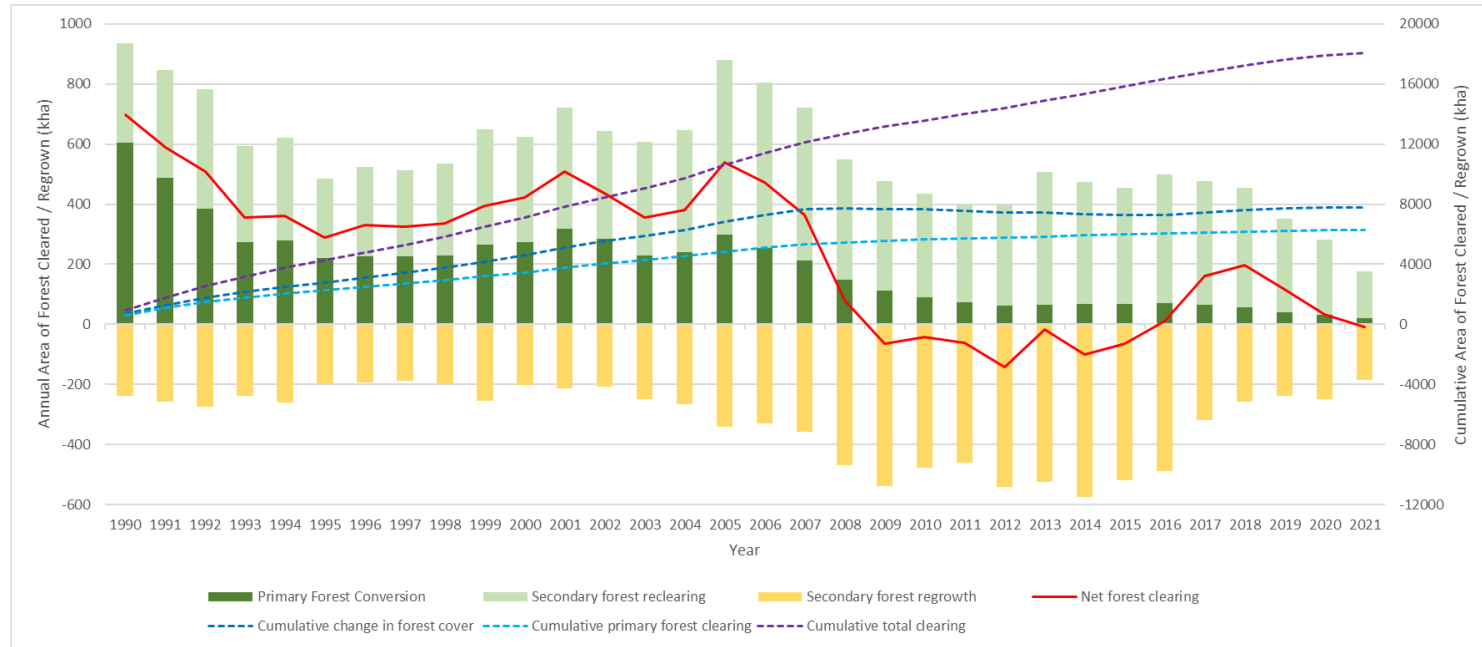
- European Union Deforestation Regulations
- 30 December 2026 to large EU businesses, and from 30 June 2027 to smaller EU enterprises

Australia's Emissions – importance of forests



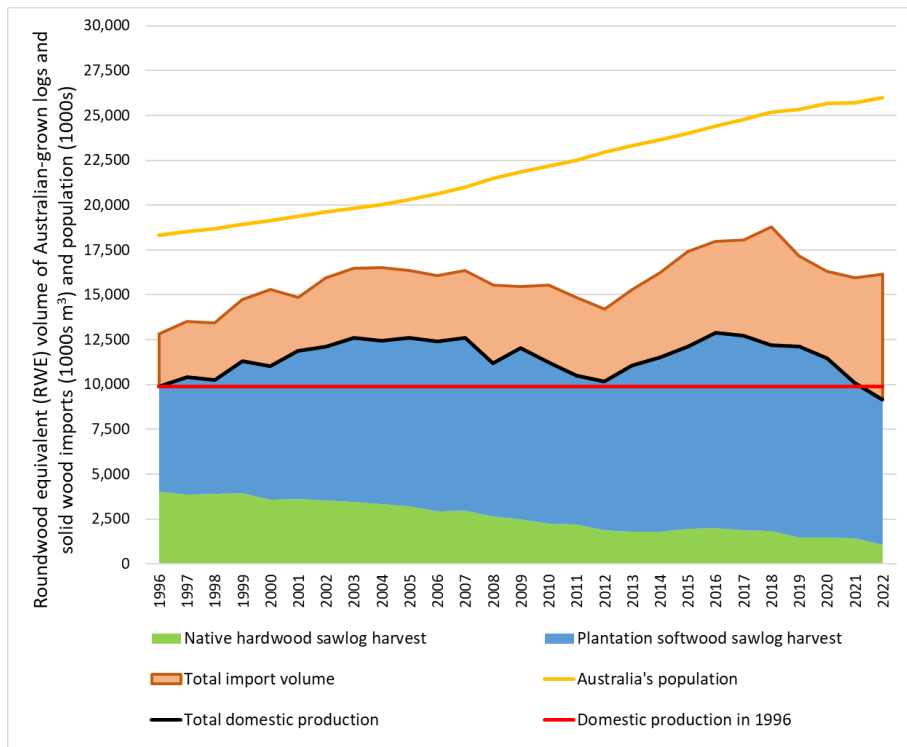
Source: Dr T Venn
UQ

- Grazing and Forestry has done the heavy lifting.
- Despite issues with NCAS and FullCAM



- Unlikely to see a wind back of tree clearing laws
- Forestry is acceptable under both the VMA (Qld) and EPBC (federal)

Forests have a roll other than just storing carbon



Native forest timber **-75%**

Plantation pine + native forest
timber **steady**

Australian population growth **+42%**

Imported solid wood products

- **1996 24% of traded wood**
- **2022 46% of traded wood**

Half of our timber imports come from high-risk countries

Key feature 1. Forests are dynamic



1937



1988



2005

Due to neglect, most of these forests are chronically “sick”, ecologically unstable and at great risk to stand altering catastrophic wildfire.

Forestry is not the problem; it's the solution

Key feature 2. Prolific regrowth



1.1 Mha of commercially important regrowth
in S Qld

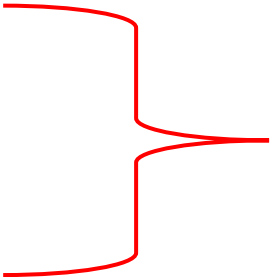
Most graziers re-clear regrowth to maintain
grazing productivity

But regrowth (614,000 ha) has exceeded re-
clearing (480,000 ha) since 1990.

Key feature 3. Native forests are complex

The look, productivity and health of native forests depends on and is impacted by :-

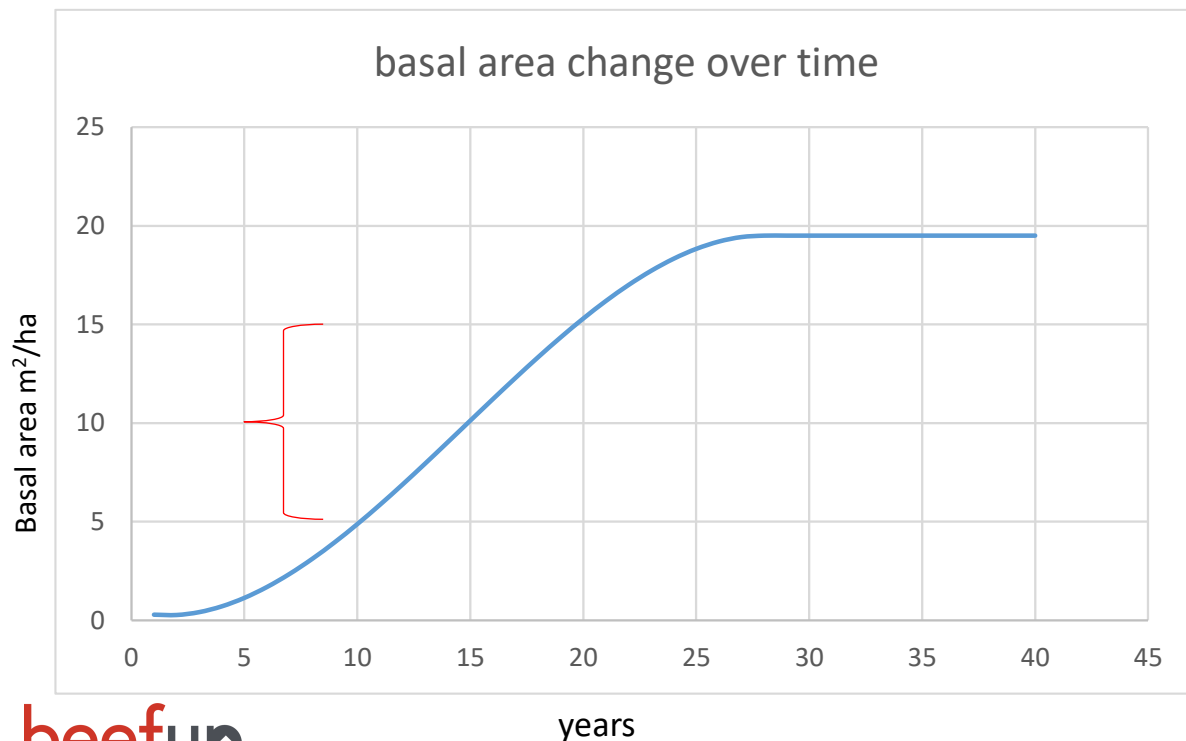
1. Species mix
2. Age class of individual trees
3. Crown class of individual trees
4. Tree density (how close to limiting BA)
5. Past management practices (harvesting, clearing, thinning, fire)



These three are critical to
our Eucalypts

#4 critical for cypress

3.2 Importance of limiting basal area



- Limiting basal area is the point at which forest growth “locks up”.
- Regrowth stands may “self thin” to some extent
- But still >400 sph
- So the best trees are only half grown when the stand hits the wall!!
- Want to manage stands between about 5 and 15 m^2/ha BA across a harvest cycle

PNF responds to good management

- Typical overstocked unmanaged forest
- >1000 stems/ha individual trees grow at 1 to 3 mm/yr
- Commercial volume grows at 0.2m³/ha/yr
- Poor ecological value
- Excessive fuel loads
- Grazing value??



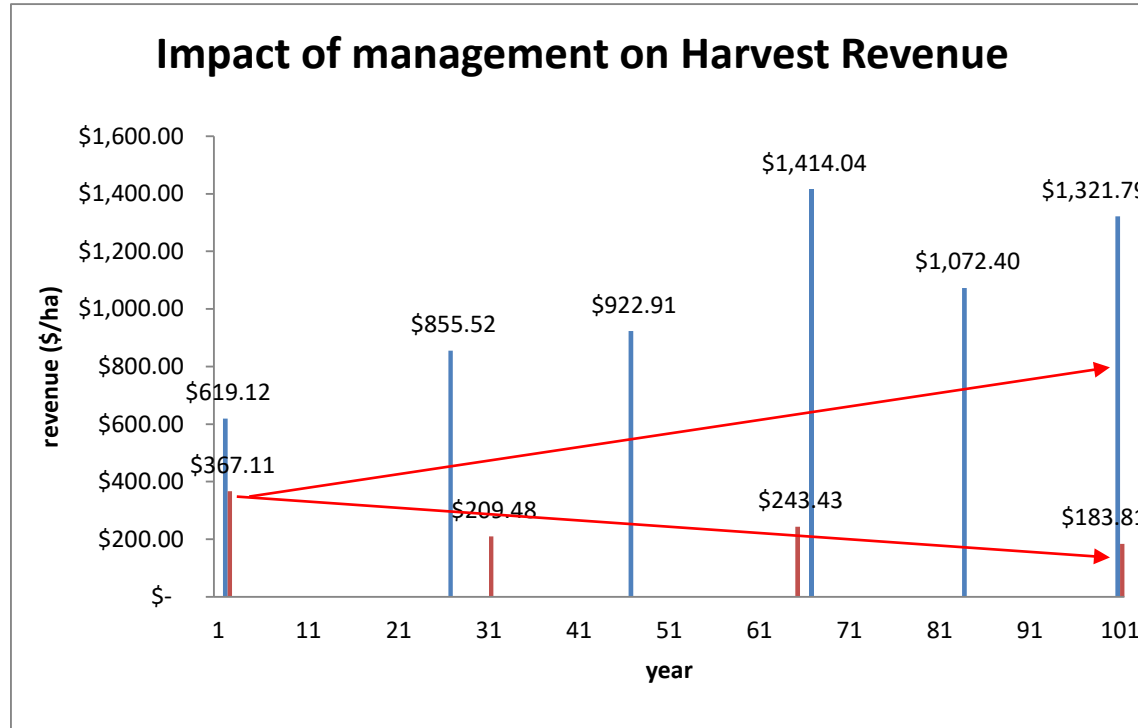
- Trees paint marked for retention
- Salvage harvest only removes commercial trees that need to come out
- Non-commercial trees felled to waste
- There is significant potential biomass left in the bush
- 150 stems/ha
- Looks messy?



- 6 years later
- Healthy crowns
- Individual trees growing at > 1 cm/yr
- Commercial volume increasing at 1.5 m³/ha/yr
- Good ground cover
- Manageable fuel loads
- Restructured ecosystem
- Grazing value??

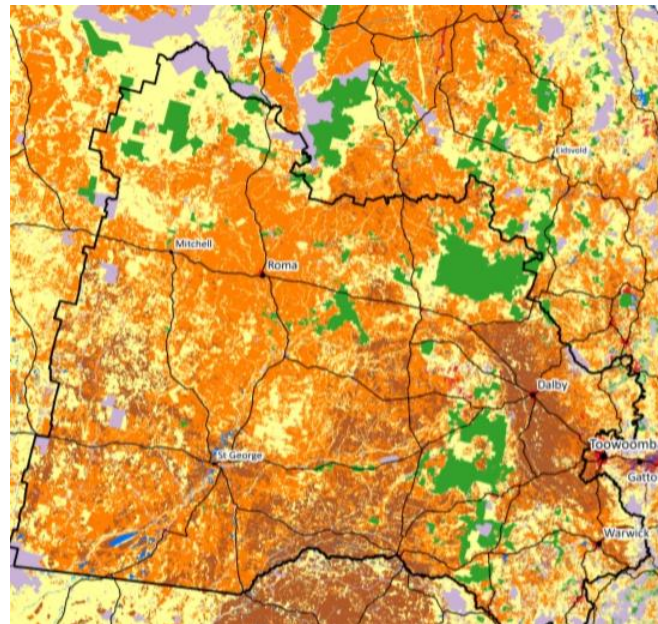


Silviculture will improve forest productivity



PNF – a regional perspective

- 27% of the region contains forest; > half is PNF
- 100,000 m³ of the wood processed by 23 sawmills in the region.
- Most is cypress from state forest and leasehold land (80%)
- Not a high value placed on private wood.
- Some export (good money but tight specs and questionable sustainability).
- Not a big incentive for investment in PNF



Forest category by tenure

Commercial plantation	Hardwood plantation	0.02%
	Softwood and mixed species plantation	0.06%
Native and Other forest	Leasehold forest	4.34%
	Multiple-use public forest	7.03%
	Nature conservation reserve	1.27%
	Other Crown land	0.63%
	Private forest	13.98%
	Unresolved tenure	0.01%
Non-forest	Non-forest	72.67%

PNF – a regional perspective

- In the Southern Brigalow Bioregion there are 41 RE's in which you can conduct a Forest Practice
- Western Downs and Maranoa LG have 72% of the PNF
- Most of these are Eucalypt forests in which cypress is a component

LGA	freehold	leasehold	state forest	timber reserve	total
BALONNE SHIRE	51,555	2,042	950	-	54,547
BARCALDINE REGIONAL	20,260	84,337	-	-	104,597
BLACKALL TAMBO REGIONAL	45,473	132,768	-	11,857	190,098
WESTERN DOWNS REGIONAL	396,813	19,294	483,650	-	899,757
GOONDIWINDI REGIONAL	77,856	13,279	141,957	-	233,091
MURWEH SHIRE	42,682	152,844	20,647	12,441	228,615
MARANOA REGIONAL	281,351	384,776	267,676	-	933,804
SOUTHERN DOWNS REGIONAL	28,808	118	489	-	29,414
	944,798	789,457	915,370	24,299	2,673,924

Cypress RE	Freehold	leasehold	state forest	timber reserve	Total
11.3.14	21,350	860	37,028	-	59,238
11.3.18	18,056	25,487	23,513	365	67,421
11.5.1	146,284	9,649	204,864	-	360,796
11.5.4	21,412	3,081	54,452	-	78,945
11.5.21	10,944	3,825	55,175	-	69,944
11.8.9	50	-	-	-	50
11.10.11	65,527	157,808	68,956	1,880	294,171
11.3.19	59,182	9,940	4,513	25	73,660
11.10.9	62,777	150,424	86,888	13,204	313,294
	405,582	361,075	535,388	15,475	1,317,520



Cypress on sandy soils
(often mixed with ironbark)



Poplar Box on red soils
(cypress locally dominant)



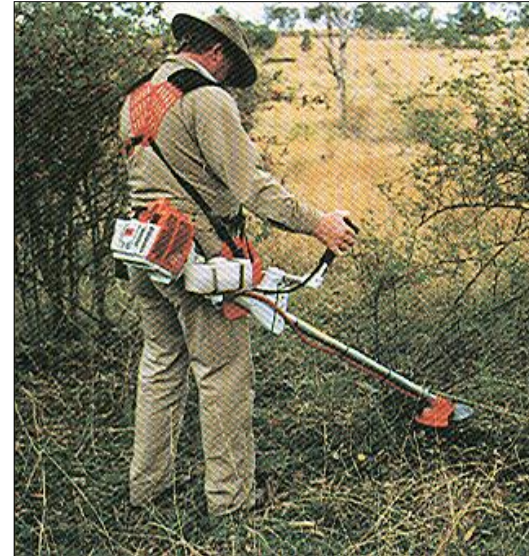
- Cypress regrowth will lock-up
- Responds to thinning
- Significant improvement in growth rates and wood quality and value.
- But it costs money to thin

Convincing cow cockies to manage forests



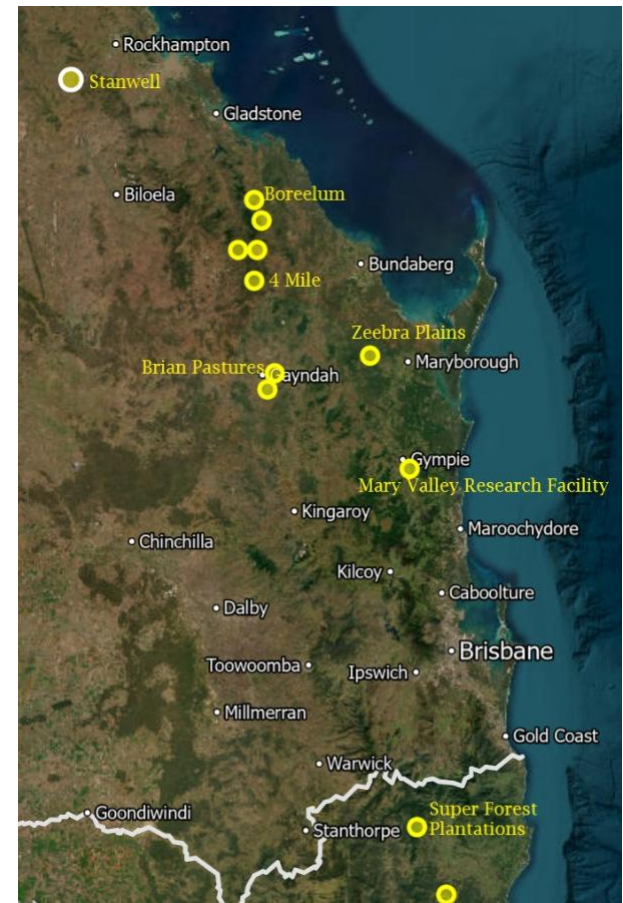
Thinning for timber production will reduce BA and improve stand production;

.... will also increase grass production



Steak and Wood Objectives

- Evaluate appropriate options for SPS establishment in PNF and integrating trees on farm.
- Evaluate SPS as potential alternative for carbon sequestration and GHG mitigation
- Refine existing carbon calculator tools by providing more precise estimates of carbon stored in trees
- Evaluate the financial and economic performance of SPS
- Determine the co-benefits SPS (animal welfare, biodiversity and income diversification)



Traditional
block planting



Alley planting



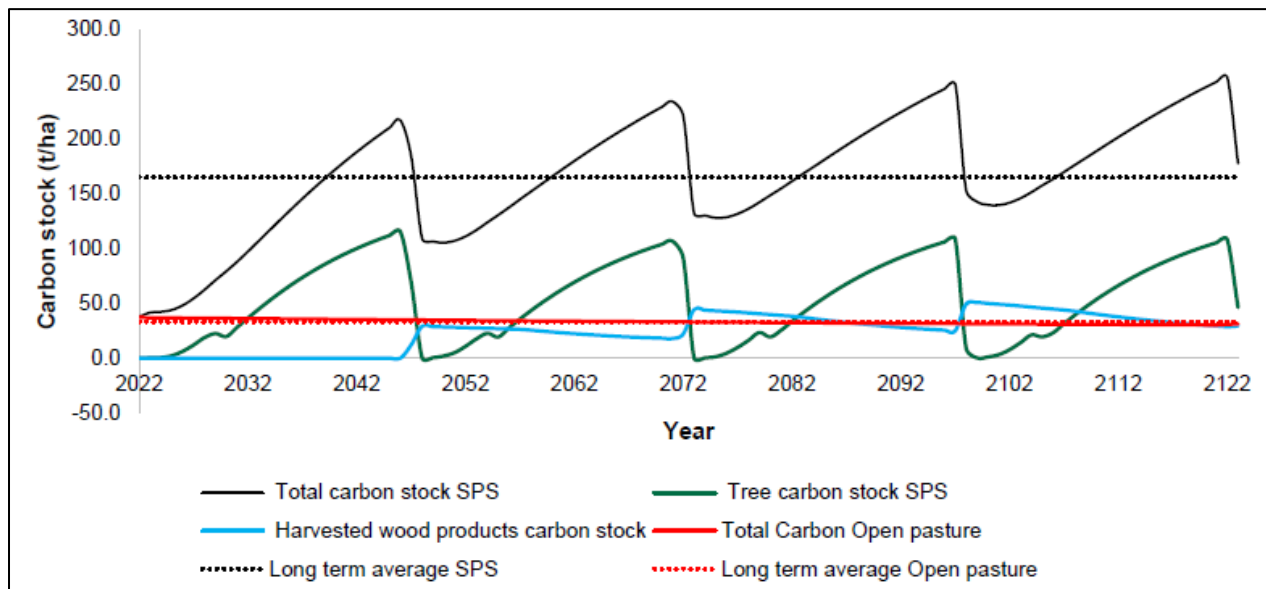


Before thinning (Nov 2022)

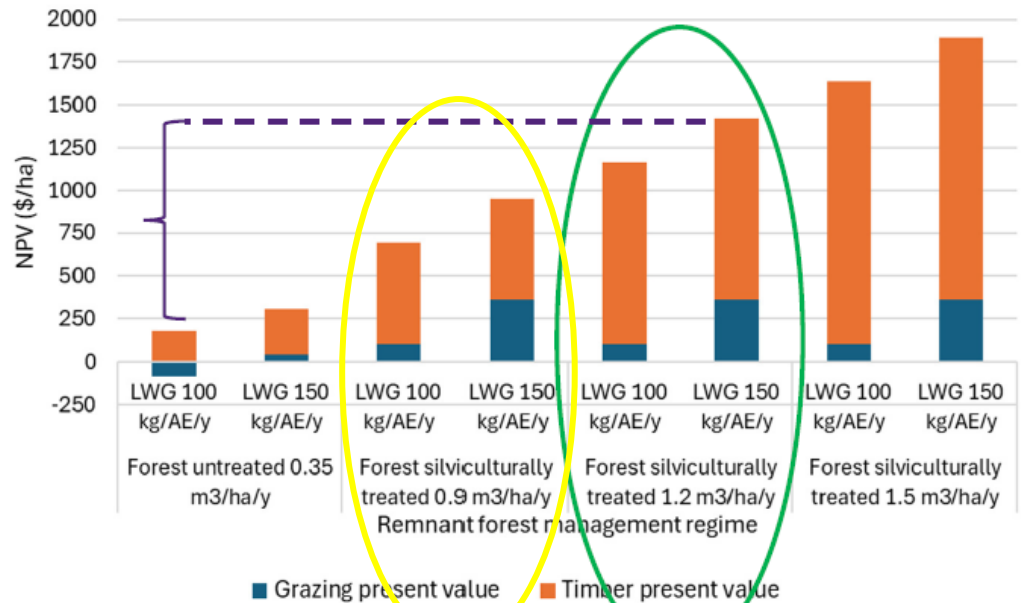
After thinning (April 2023)



- Growing trees (managed NF, retained regrowth or plantation) will improve carbon stocks.
- Opportunity to offset emissions from other sectors of the enterprise
- Methodologies to generate ACCU's from managed PNF don't currently exist but are being developed.
- But managed PNF can stack up financially on its own merits.

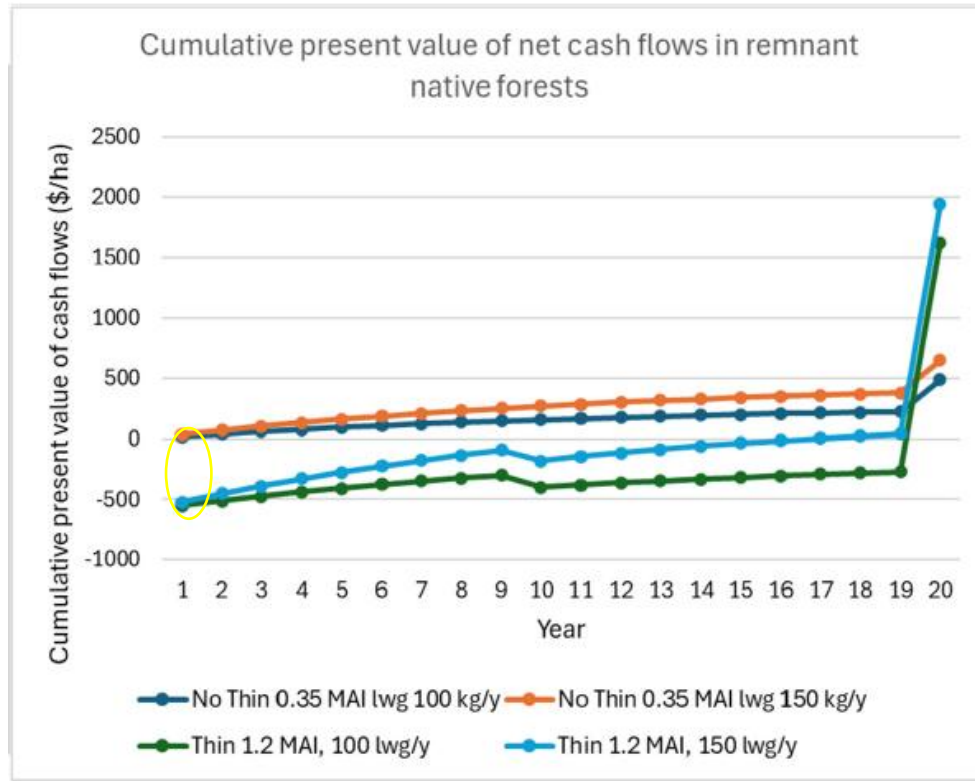


Financial performance of Silvopastoral systems in Qld PNF (Steak & Wood Project)



- Fair returns from the grazing enterprise
- Excellent returns from the timber enterprise

Devil in the detail



Long negative cash flow can be a disincentive for landholder investment in PNF

The PNF holey cow – Cost effective mechanical thinning



Can a Biofuel driven, integrated harvest and thinning system provide the solution?



Harvest and extraction systems development

Volumes of biomass and wood products.

Mechanical harvest and extraction systems (significantly different from plantation clear-fell).

Sawlog procurement (can the industry go from single log grading to tonnage systems)?

Forest growth responses.

Economic analysis.

Post harvest management (fire, regrowth and weed management).

Code compliance and environmental impacts.

Chain of custody requirements (costs ?)



Take home messages

- Many graziers in Qld need to manage the balance of trees and grass.
- Tree clearing is regulated at state and federal level. Potential markets forces as well (EUDR). Forestry is exempt.
- Trees impact grazing productivity but in some cases trees have an inherent value.
- Opportunities for managing trees and grass (Silvopastoralism) is economically attractive in the higher rainfall hardwood zone of Qld.
- Current processing structure (high reliance on state owned wood) and relatively low PNF value is more of a challenge in the Maranoa.
- An emerging biofuel industry has the potential to cost effectively re-settle large tracts of both state and private forest resources.



beefup FORUM

Morven, QLD 2026

Welcome & Global Market Update

Sabina Kindler

Meat & Livestock Australia

- ❖ Global Market Update
- ❖ North America Spotlight
- ❖ MLA's 2030 Strategic Plan
- ❖ Examples of RD&A in Action

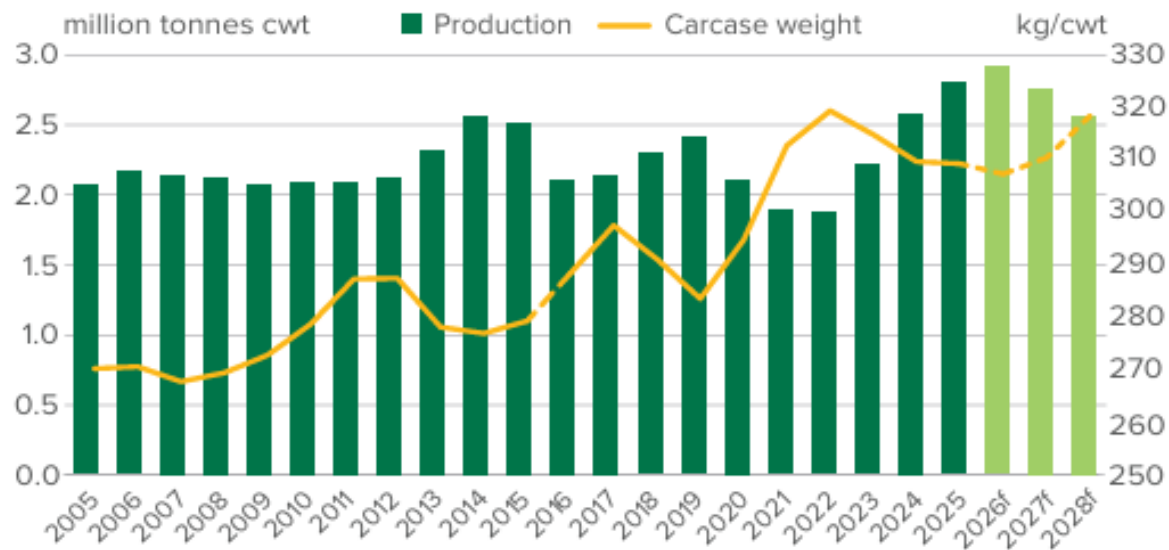
Red Meat Industry Structure



Global Market Update

AU beef production forecast

Figure 6: Cattle carcase weights and production

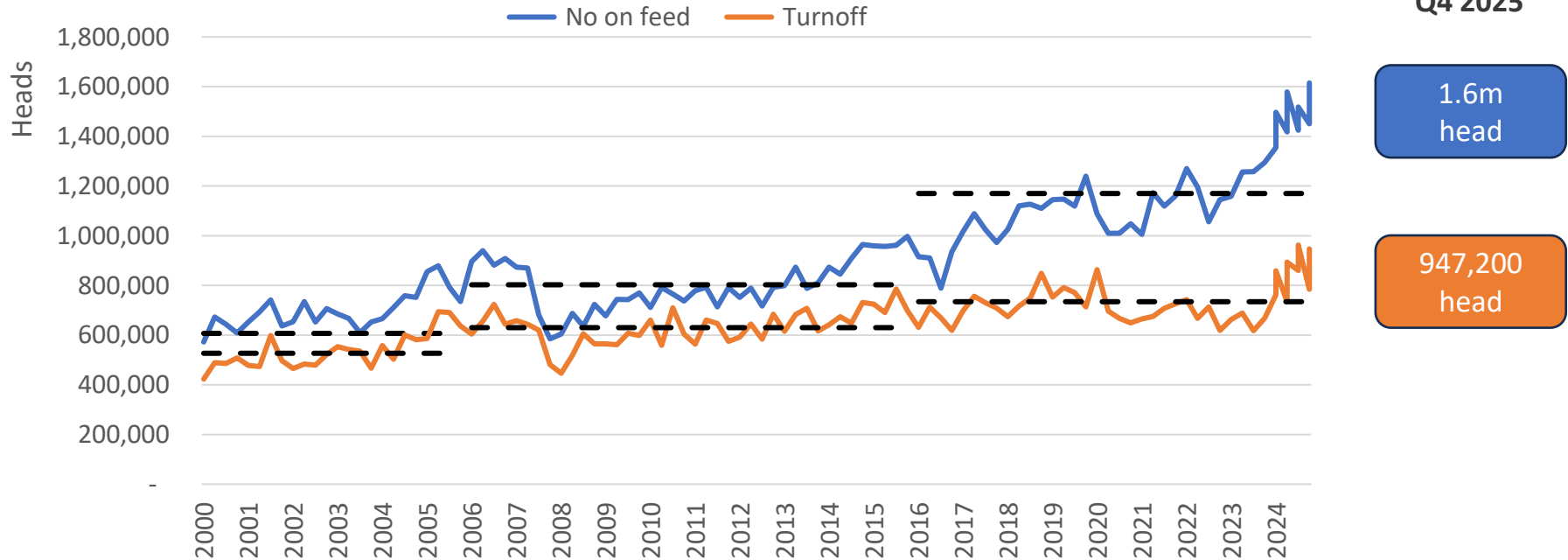


Source: ABS. MLA forecasts

- Slaughter to increase 2% to 9.45M head
- Production up to 2.9M tonnes cwt
- Beef Exports to increase to 2.3M tonnes cwt (79%)

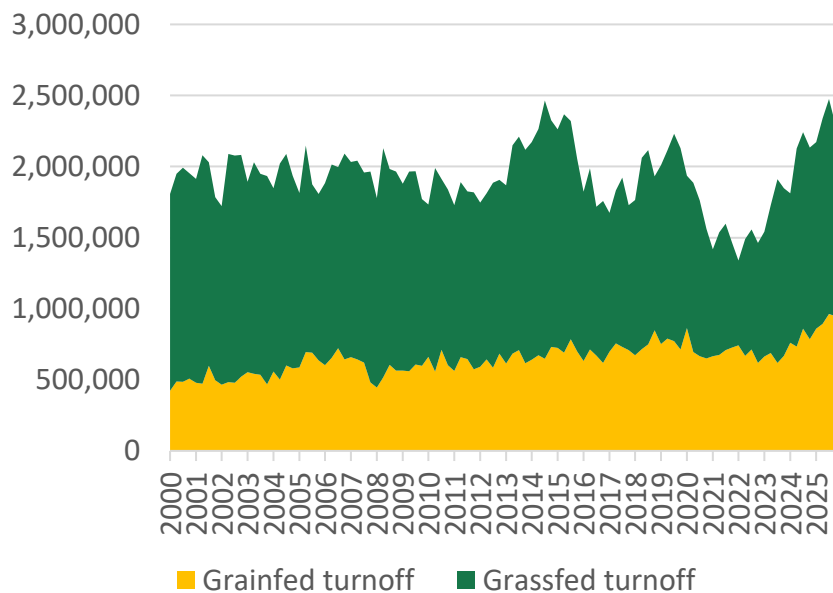
Feedlot capacity lifted to record levels (1.76m head) influencing the production system

QTR turnoff and number on feed

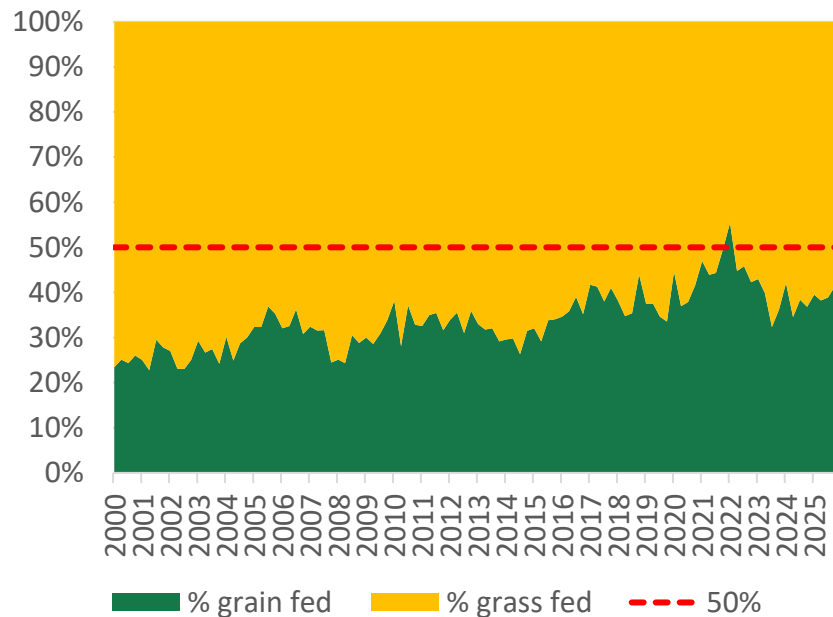


Grain & Grassfed turnoff

Quarterly Turnoff - Absolute

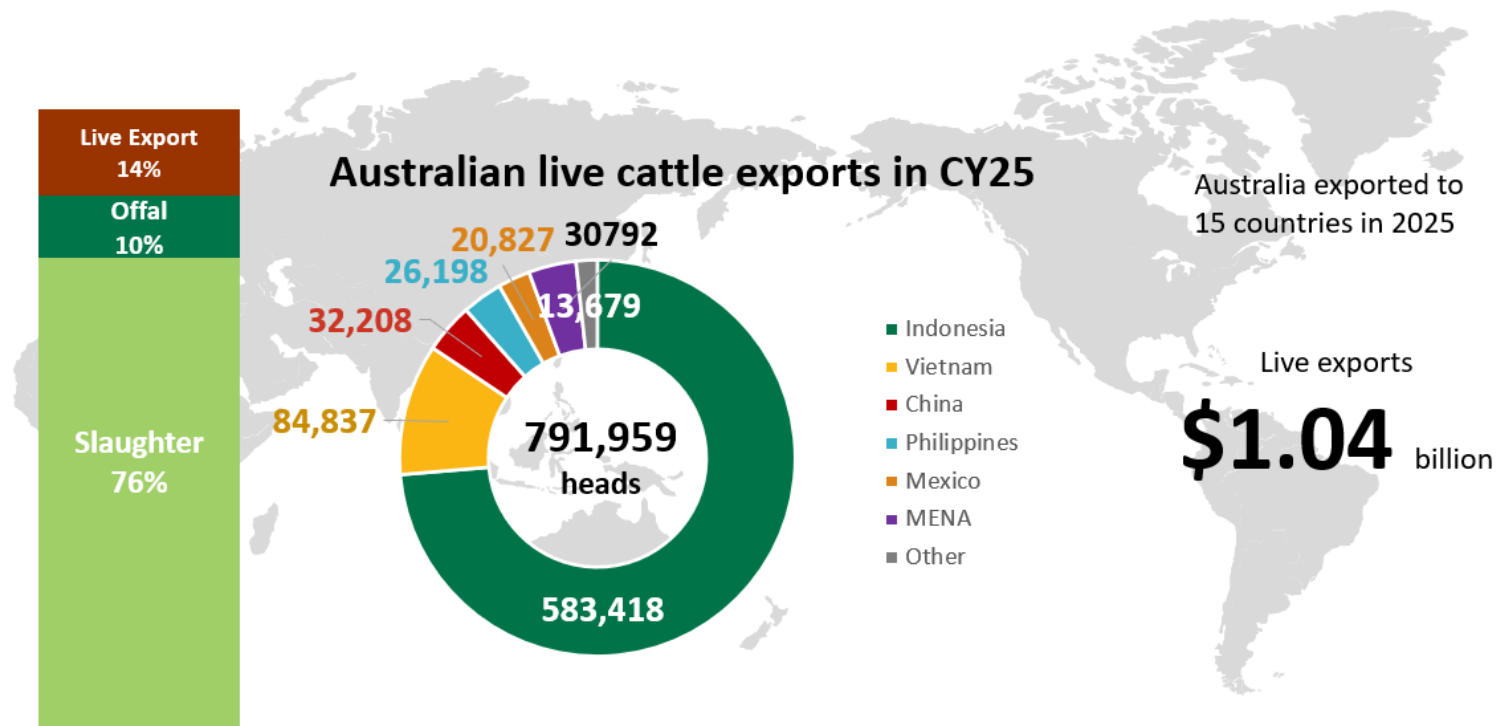


Quarterly Turnoff - % Basis

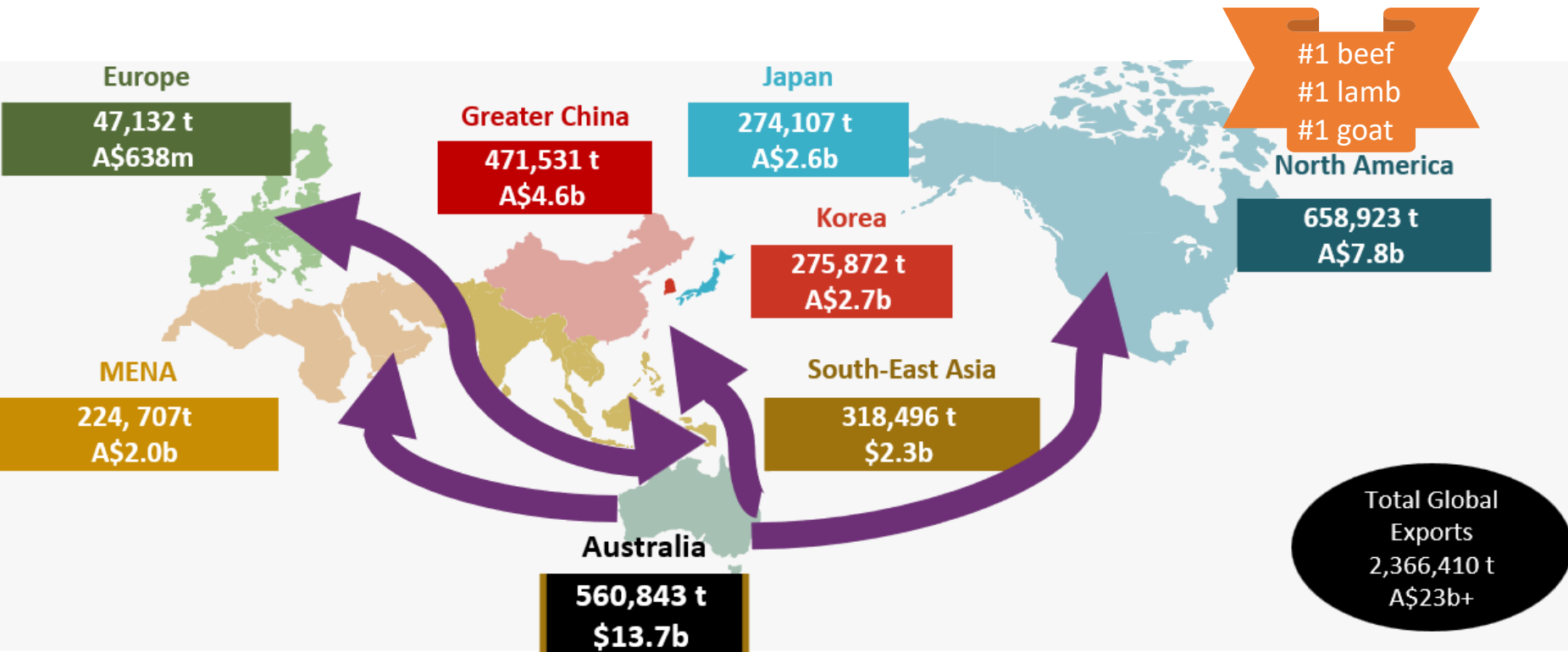


Live export represents 14% of bovine exports volume

South-East Asia is our key market, with Indonesian demand for Australian meat holding strong



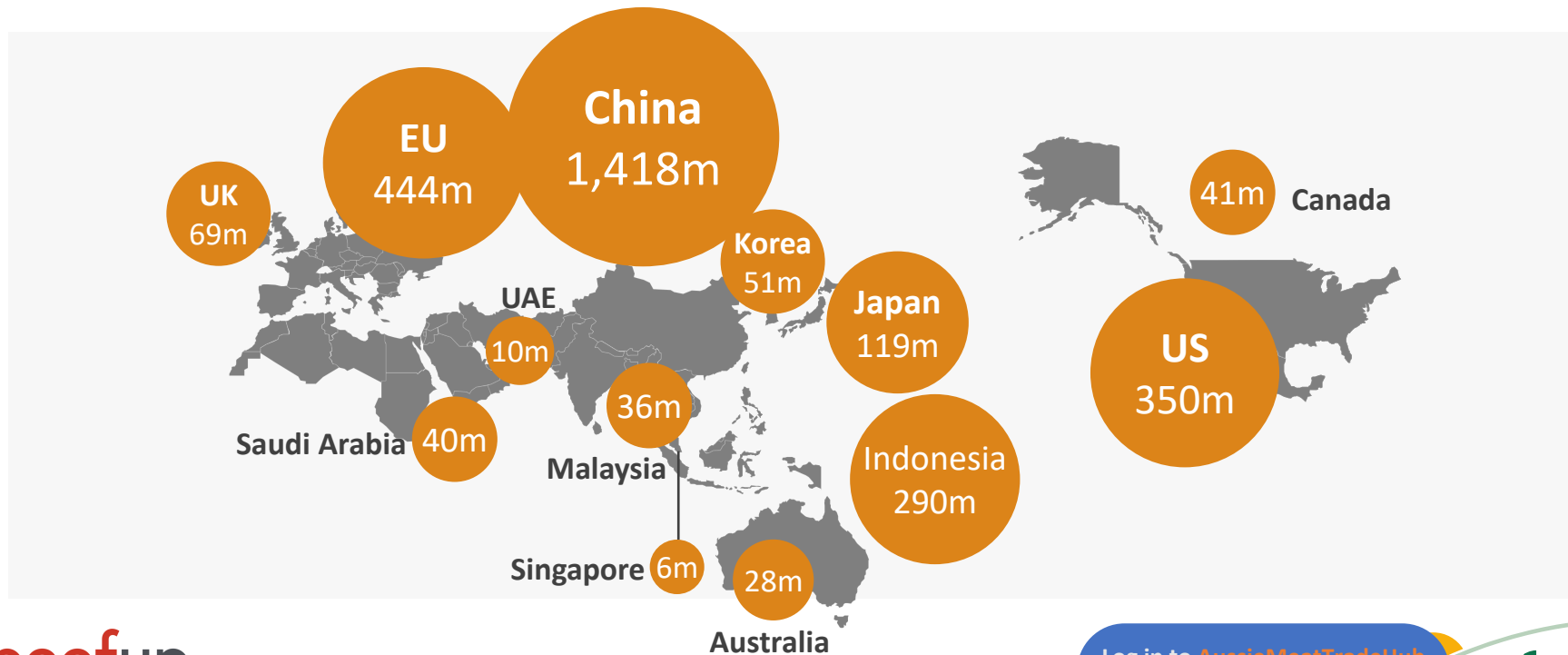
Australian red meat: 2025 export volume & value



•Source: ABS, DAFF, Trade Data Monitor, LLC (TDM), MLA. FY25. *Australian domestic volume is in shipping weight/wholesale weight and retail prices. export volumes are in shipped weight terms and wholesale prices.

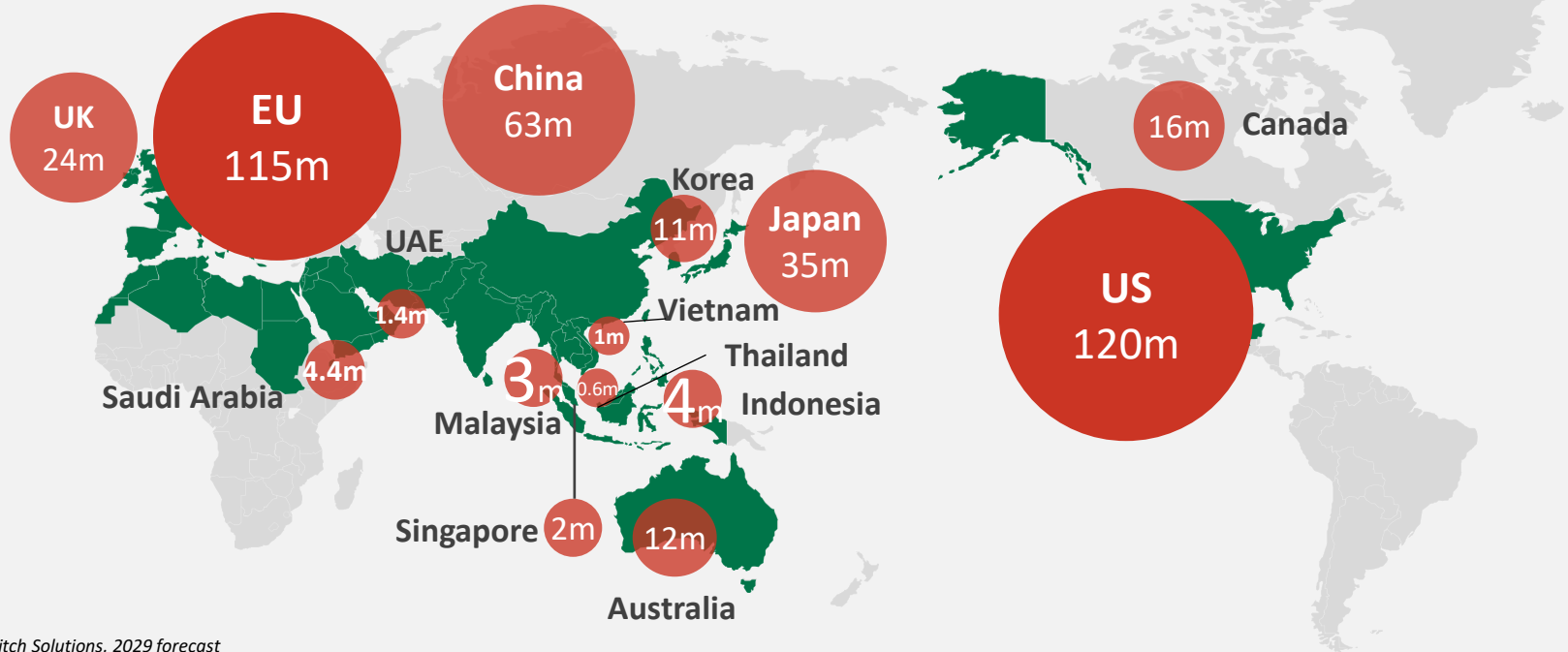
Population is traditionally used as an indicator for potential demand

Global population (2029 forecast, selected markets)



Household income: 2029 forecast (above US\$35K)

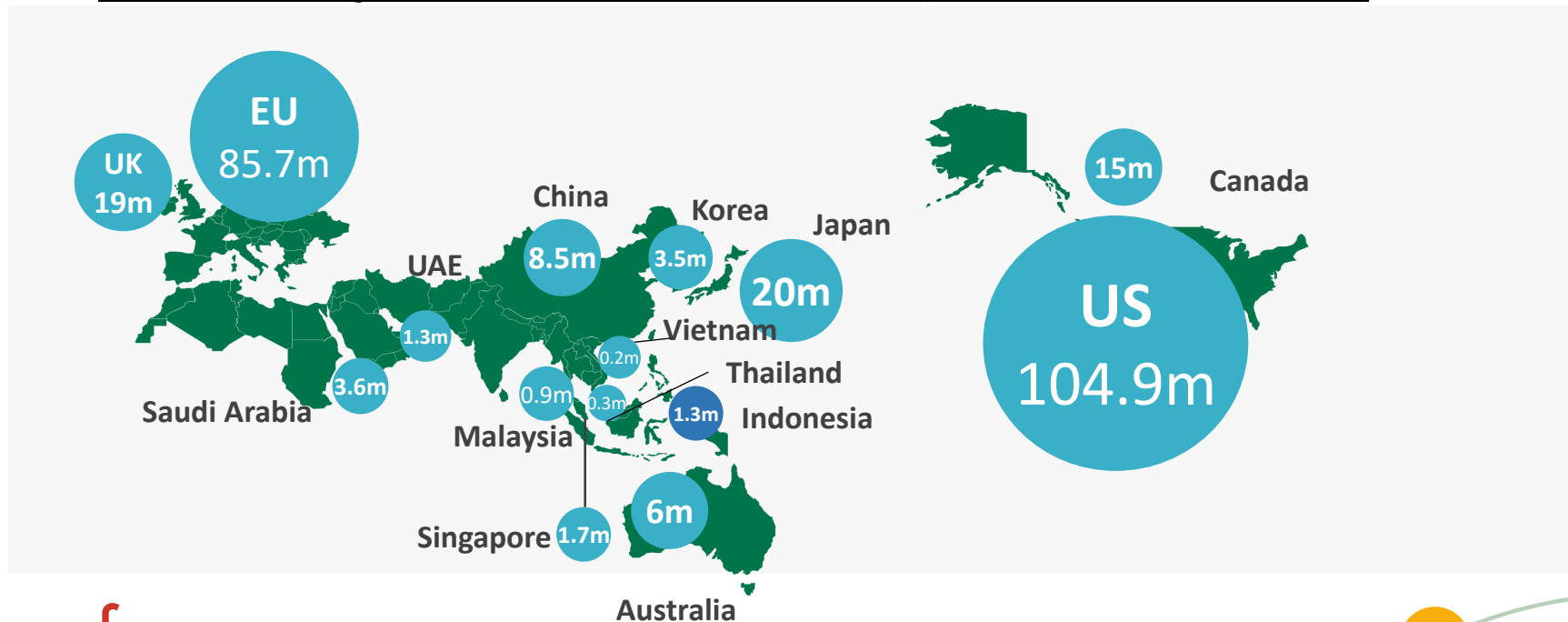
Households earning a DISPOSABLE income above **US\$35,000** (2029 forecast)



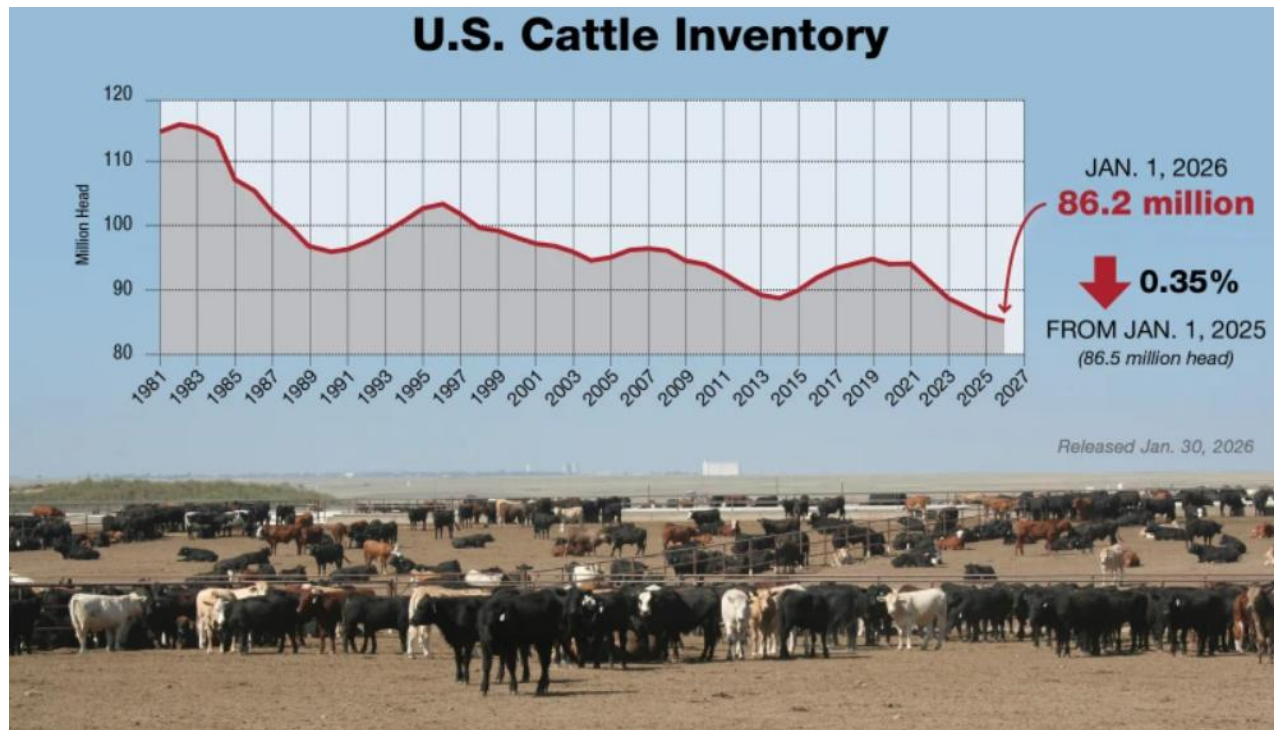
Source: Fitch Solutions, 2029 forecast

Post-COVID inflation and rising red meat value make US\$50,000 disposable income a more realistic benchmark for market sizing

Households earning a DISPOSABLE income above US\$50,000 (2029 forecast, selected markets)



US Cattle Inventory hits 75-Year Low at 86M head



- Beef cow herd: 27.6M head
- 2025 Calf Crop: 32.9M head (smallest since 1941)

Market dynamics

Global meat consumption is increasing

Over the past 20 years, total global consumption of meat has been steadily increasing at an average annual rate of 0.7% for beef, 1.6% for sheepmeat, 1.2% for pork and 2.8% for poultry meat

(Organisation for Economic Co-operation and Development (OECD)).



- USA – Tariffs, trade wars e.g. Canada
- China – Beef Safeguard
- EU FTA
- Market dynamics = protein redistribution

North America Spotlight

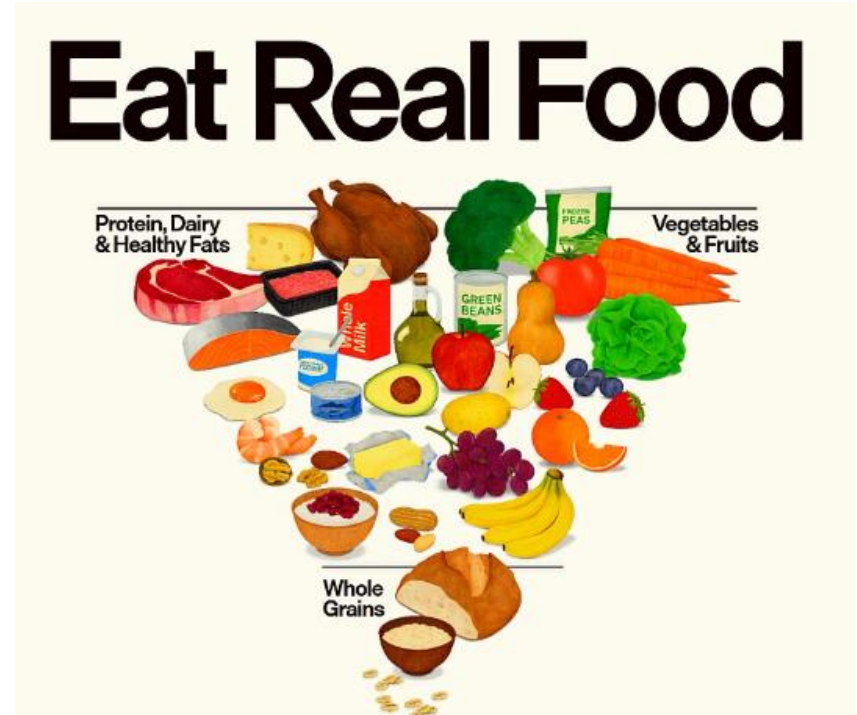
Food as medicine

Protein Powers America's Health Revival

1. 80% of Americans report prioritizing protein content intake during at least one meal a day[^]
2. "Good source of protein" is the most common criteria that Americans use to define a healthy food* (for the first time)

The Meat Department Delivered the Ultimate Growth Trifecta in 2025

Households buying		Trips/buyer/year		Dollars/trip		Spend/buyer/year	
							
98.3%		56.5		\$16.63		\$939.67	
+0.1% vs. 2024	+0.1% vs. 2022	+4.5% vs. 2024	+7.1% vs. 2022	+3.0% vs. 2024	+6.1% vs. 2022	+7.6% vs. 2024	+13.6% vs. 2022



MEAT'S BACK ON THE MENU

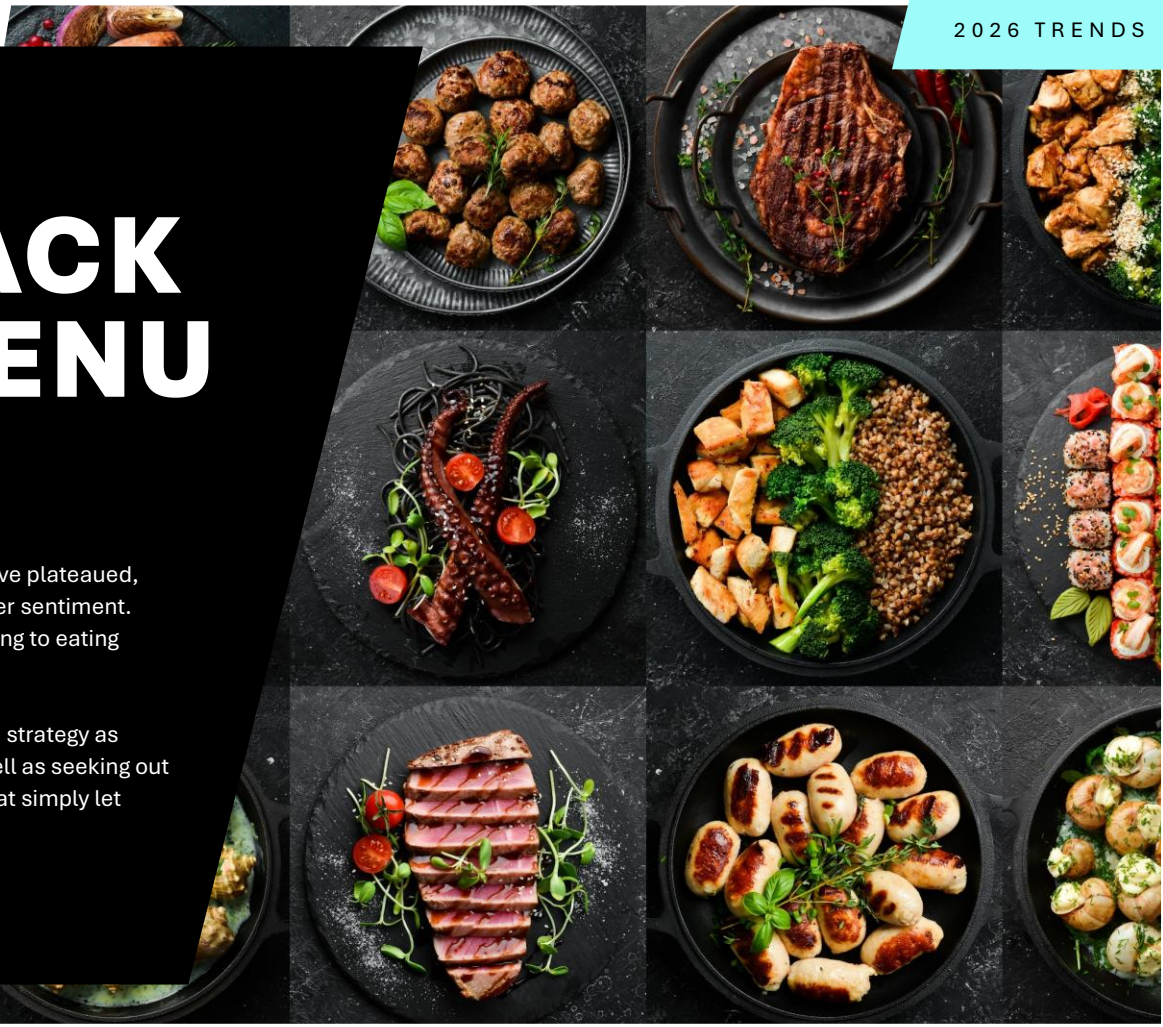
PLANT-BASED MEAT HAS PLATEAUED

What it is: Plant-based meat and seafood products have plateaued, both in retail store sales as well as in terms of consumer sentiment. Many consumers are getting back to basics and returning to eating animal meats such as beef, poultry, and pork.

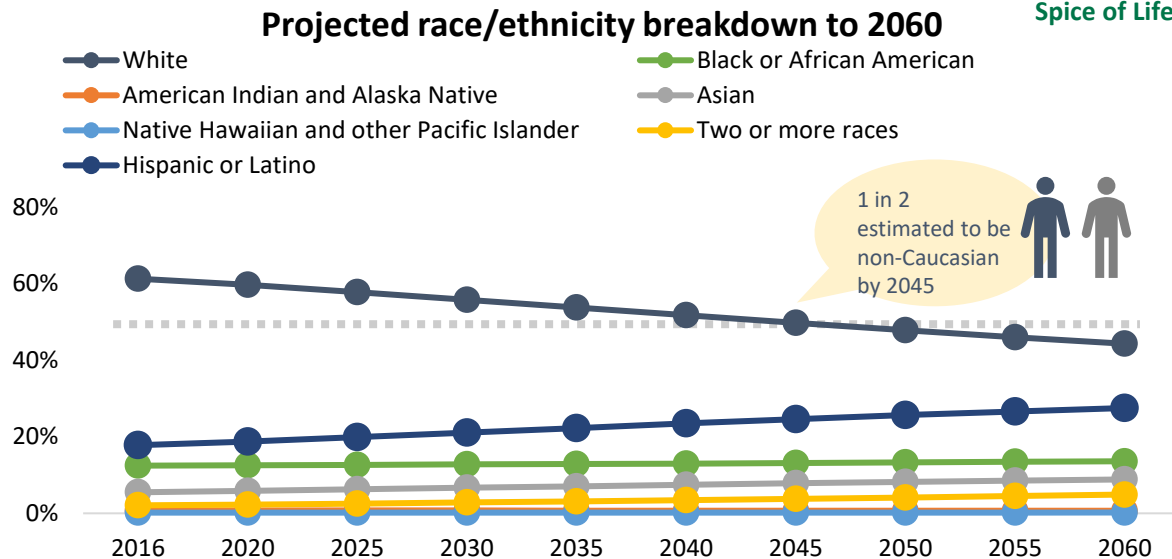
Why it matters: Now is the time to rethink your protein strategy as consumers are shifting back toward animal meat as well as seeking out center-of-plate vegetables (cauliflower steaks, etc.) that simply let garden goodies shine.

Where to find it: Retail & foodservice

Source: Datassential 2026 trends



**More cultural
diversity means
new cuisines
and different
preferences**



Largest Non-Caucasian Ethnic Groups in USA: Hispanic/Latino, Black/African America and Asians



Coproducts surge in USA

NESPRESSO



Primal Multi - Pure Beef Organs

★★★★★ (122)

\$49.95

- ✓ Nature's Multivitamin
- ✓ Grass Fed Liver, Kidney & Heart
- ✓ Ditch the synthetic



Primal Body - 100% Bull Testicle

★★★★★ (28)

\$59.95

- ✓ 100% Pure Testicle
- ✓ Natural Stimulants
- ✓ Naturally contains Testosterone

Beef + liver + heart

Marrow

beefup
FORUM



mla
MEAT & LIVESTOCK AUSTRALIA

Premiumisation can give reasons for consumers to pay 'a bit more'

\$1.24 per 100g



coles

3x



- ✓ *Natural*
- ✓ *Transparency*
- ✓ *Sustainable*
- ✓ *Animal welfare*
- ✓ *High Quality*
- ✓ *Wide variety*

+ *Convenient*

\$4.00 per 100g



beefup
FORUM


MEAT & LIVESTOCK AUSTRALIA

Consumers still want affordable indulgences

What Foods do you refuse to compromise on?

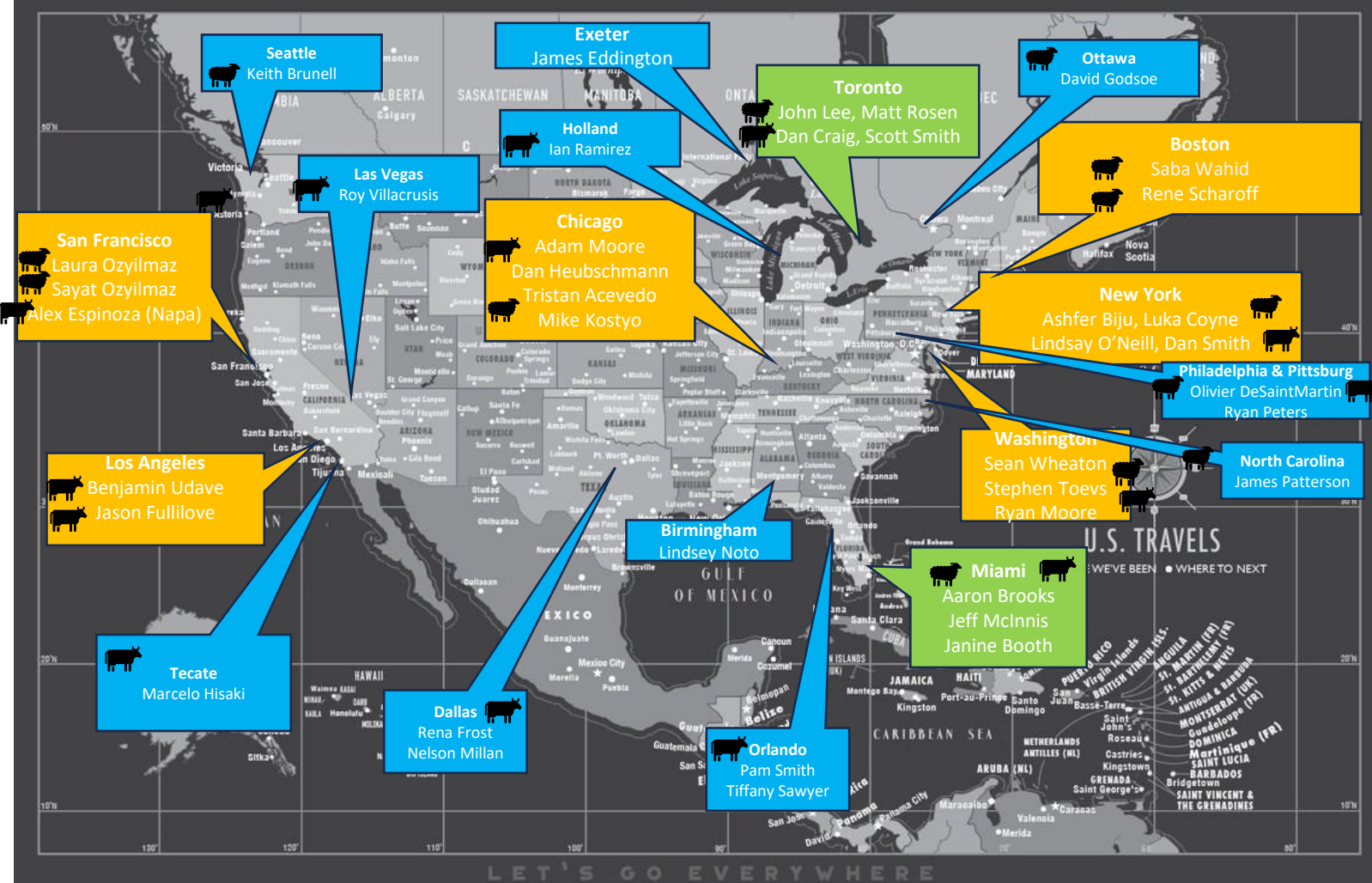


Ambassador Programs

- Identify influential food professionals that are passionate about Aussie beef and lamb
- Join a global network
- Work with us to promote and share the Aussie story through partnering with us on:
 - Events & training
 - Social & traditional media
 - Potential Aus industry tour
 - Trade shows
 - Demo kitchens
 - Recipe development



North
America
Ambassadors
in target cities







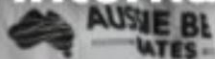


AUSSIE BEEF
MATES

CHEF STEPHEN TOEVS

Vice President of Culinary, Global Operations
Marriott International

for Marriott International.



Strategic Plan 2030



Productivity and profitability will underpin the
sustainability and prosperity of our great industry.

Productivity and profitability will underpin the sustainability and prosperity of our great industry

By focusing on value creation and capture along the supply chain, we will deliver benefits that translate into profitability for the production sector

will be delivered by our values



while focusing on our *Strategic Plan* priorities



to achieve our bold ambitions



Integrity at heart



Optimise demand by expanding markets and creating and capturing value



Contributing to Australia's net zero ambitions



Delivering value-based marketing



Establishing multibreed genetic evaluation and livestock credentials



Driving demand through marketing, market access and social capital



Investing in our industry's people



Stronger together



Drive profitable, productive and sustainable growth



Future focused



Strengthening the industry's foundation

What is value-based marketing (VBM)?

Translating consumer demand drivers into price signals, so value is created, captured, and shared through the chain

Start with understanding consumer demand drivers



Enjoyment (eating quality)



Convenience



Nutrition



Integrity (sustainable)



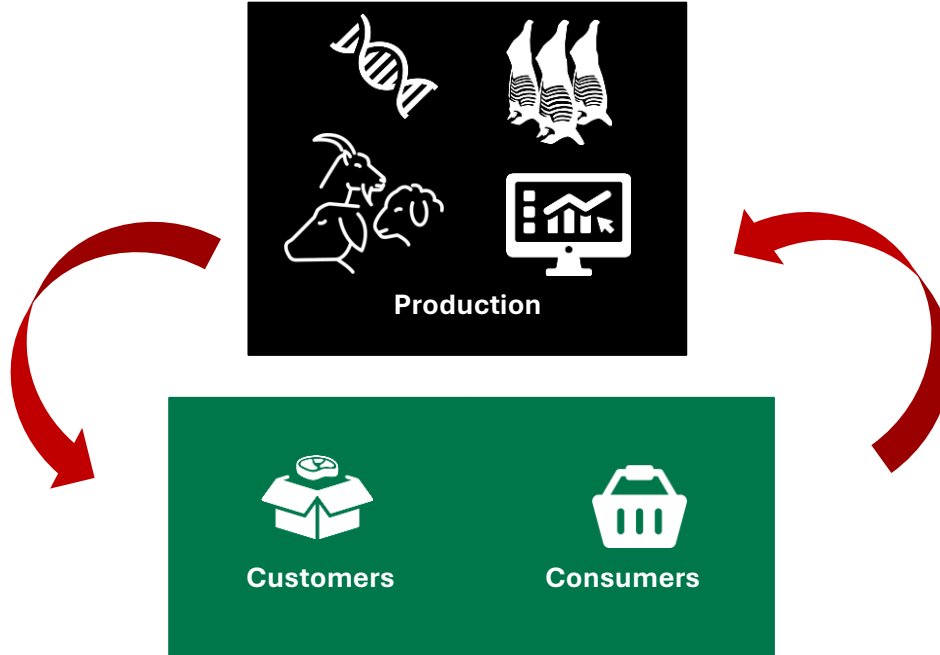
Heritage (provenance)



Range (price)

Delivering value-based marketing

Feed forward
livestock
credentials
adding to
livestock value



Transfer of
invaluable data
and feedback to
breeders and
owners

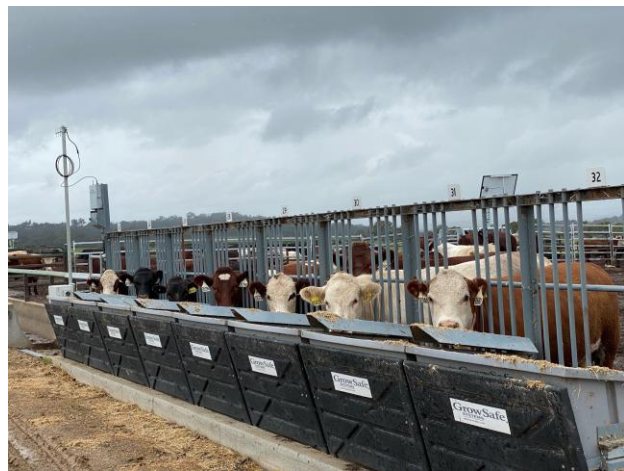
Examples of Research, Development & Adoption activities

Cut surface grading cameras



Multibreed genetic evaluation and livestock credentials

- Genetic merit of animals can be compared across breeds
- Accelerated genetic gain for improved productivity
- New genomic products and faster delivery to industry



Contributing to Australia's net zero emissions

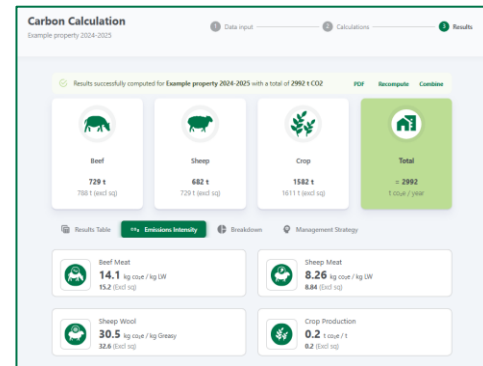
Genetics, Supplements, Feedbase



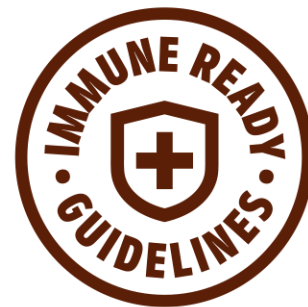
Biogenic carbon cycle



Data, tools and technology



Immune Ready Guidelines



FOR BUYERS

**REDUCED RISK
OF DISEASE IN
PURCHASED CATTLE**



**IMPROVED FARM
BIOSECURITY**



**IMPROVED ANIMAL
HEALTH AND WELFARE**



FOR SELLERS

**PREPARE YOUR CATTLE
FOR POTENTIAL DISEASE
CHALLENGES**



**PROMOTE AND SELL
PREMIUM CATTLE**



**SAFEGUARD AGAINST
DISEASE AND IMPROVE
PRODUCTIVITY**



National Cattle Health Declaration



NATIONAL CATTLE HEALTH DECLARATION

V: 8/10/22

Property Identification Code (PIC) of this property
This MUST be the PIC of the property that
the stock is being moved from

Attached to accompanying NVD/Waybill No.

No. of cattle in consignment

Biosecurity and health information

1. Has the owner owned all the cattle in this consignment since birth? Y ☐ N ☐

2. Does the property of origin have a completed on-farm biosecurity plan? Y ☐ N ☐

3. Have these cattle been tested for the presence of bovine viral
diarrhoea virus (BVDV, pestivirus)? Y ☐ N ☐
If tested, were any cattle found to be persistently infected? Y ☐ N ☐

4. Have these cattle been tested for the presence of BVDV
(pestivirus) antibody? Y ☐ N ☐
Test results

5. Has the source herd had a test for Johne's disease (JD)? Y ☐ N ☐

If so, which test? Check Test ☐ Sample Test ☐ HEC Test (dairy only) ☐

Was the result negative? Y ☐ N ☐ Pending ☐ Date / /

6. Has the property of origin had an occurrence
of clinical JD in any species in the past five years? Y ☐ N ☐ Unsure ☐

JDDS of J-BAS of

7. BEEF CATTLE: On the property of origin, have cattle been
co-grazed with dairy cattle? Y ☐ N ☐ Unsure ☐

See explanatory note for advice on co-grazing with non-bovine species

8. Any other relevant health information

Treatments

Treatment for	Product name and type (e.g., pour-on, drench)	Date of treatment within last 6 months
Parasites		/ /
Ticks		/ /
Pain relief		/ /
Other treatments		/ /

Current vaccinations for the cattle being moved (see explanatory note)

Clostridial (e.g. 5 in 1):	Y ☐ Date / /
Leptospira (e.g. 7 in 1):	Y ☐ Date / /
Pestivirus:	Y ☐ Date / /
JD (Slinum):	Y ☐ Date / /
Botulism:	Y ☐ Date / /
Bovine ephemeral fever:	Y ☐ Date / /
Tick fever:	Y ☐ Date / /
Vibriosis:	Y ☐ Date / /
Infectious bovine rhinotracheitis:	Y ☐ Date / /
Mannheimia haemolytica:	Y ☐ Date / /
Other vaccinations (specify):	Date / /

Declaration (see explanatory notes for further information)

I (Full name)
(Address) (Town/suburb) (State) (Postcode)

declare that I am the owner or the person responsible for the husbandry of the cattle and that all the
information in this document is true and correct. I also declare that I have read and understood all the
questions that I have answered, that I have read and understood the explanatory notes, and that I have
inspected the animals and deem them to be healthy, free of signs of disease and fit to travel.

Signature* Date / /

*Only the person whose name appears above may sign this declaration, or
make amendments which must be initialled

Tel. No. () Email

- Can be downloaded from Animal Health Australia's Farm Biosecurity website
- Can also be generated at same time with an eNVD.
- Resource available in your bags.

Pimelea

Novel options to manage Pimelea toxicity in cattle
Project in contracting phase:

- Project aims to prevent toxin absorption and clinical signs through 1) application of novel toxin-binding agents, 2) herbicide suppressants of germination, and 3) through research on toxin degradation in soils.



Take home messages

Value beats volume in a shifting global beef market

Data, genetics and environmental credentials are now economic tools

Sustainability and market access go hand-in-hand

Thank you!

Questions/Comments?

Sabina Kindler

skindler@mla.com.au or 0498 988 338

Next steps: tools and resources

Together, we will ensure that Australian red meat remains the world's premier choice – trusted, sustainable and unmatched in quality.

March 2026 Cattle Projections https://www.mla.com.au/globalassets/mla-corporate/news-and-events/documents/reports/march-2026_australian-cattle-industry-projections_230326_final---v2.pdf

MLA Strategic Plan 2030 <mla-2030-strategic-plan-web.pdf>

International markets: [International markets](#) | [Meat & Livestock Australia](#)

North America Global Market Snapshot: north-america_2025-mla-mi-market-snapshot_120226.pdf

Responding to weather and climate variability: <https://www.mla.com.au/research-and-development/Environment-sustainability/climate-variability/climate/>

Beef Hub: <https://mbfp.mla.com.au/>

Phosphorus Hub: <https://www.mla.com.au/research-and-development/livestock-production/livestock-nutrition/phosphorus-hub/>

Grazing land management: <https://www.mla.com.au/extension-training-and-tools/grazing-land-management-hub/>

Weed control: <https://www.mla.com.au/extension-training-and-tools/feedbase-hub/weed-control/>

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beefup FORUM

Morven, QLD 2026

Meat Standards Australia Rail Consignment Update

Lachlan Jeffers

Value Chain Development Specialist

Meat and Livestock Australia

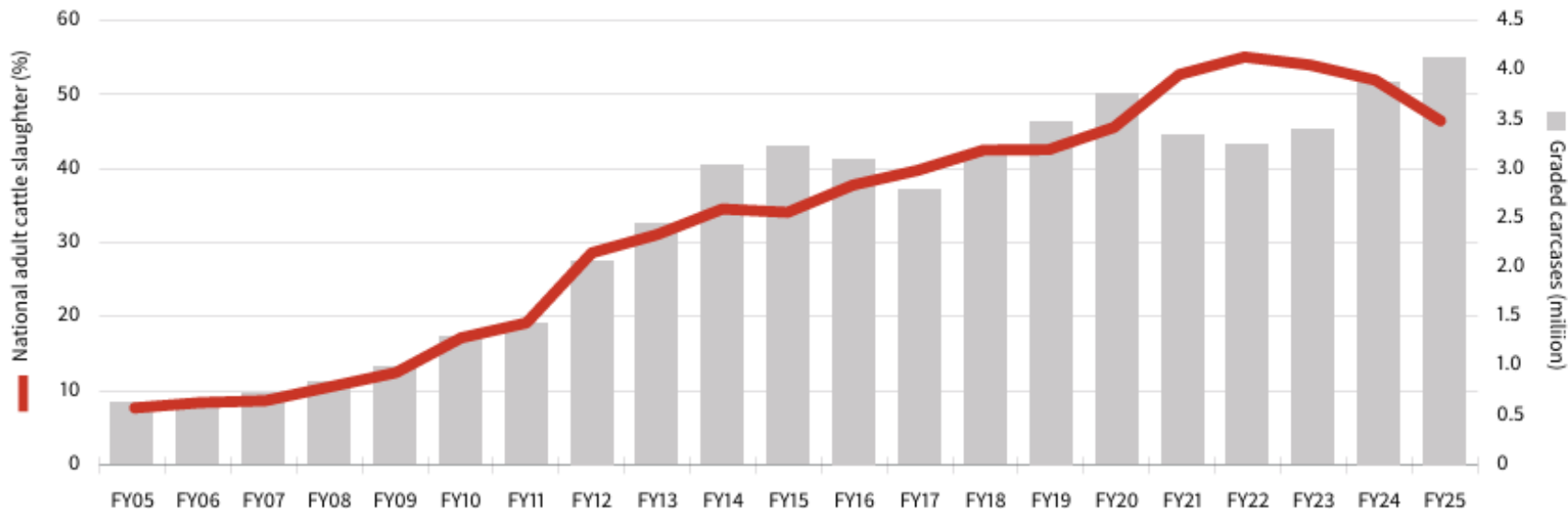


Presentation Outline

- Use of rail consignment for MSA cattle – latest research insights (*Note: this research has not been published yet, so this presentation will provide early insights*)
- Importance of preparation of cattle for slaughter
- How to use MLA feedback platforms

National MSA Beef Grading Numbers

- MSA grading reached new record of 4.13 million head in FY25
- Opportunity to grow further with rail consignment which are currently ineligible for the MSA Pathway



Use of rail consignment for MSA cattle

- Research title - *Determining the impact of long-distance road and rail transport on the eating quality of beef*
- The objective of this project is the inclusion of a rail pathway to increase the number of MSA eligible cattle, particularly from extensive regions
- Furthermore, understand relationships between potential stress measures and MSA consumer outcomes



Road & Rail Long Distance Trial



- 4 Replicates
 - 2018
 - 2019
 - 2022
 - 2024



2 Transport
types

Road & Rail



4 Properties
+
2 feedlots



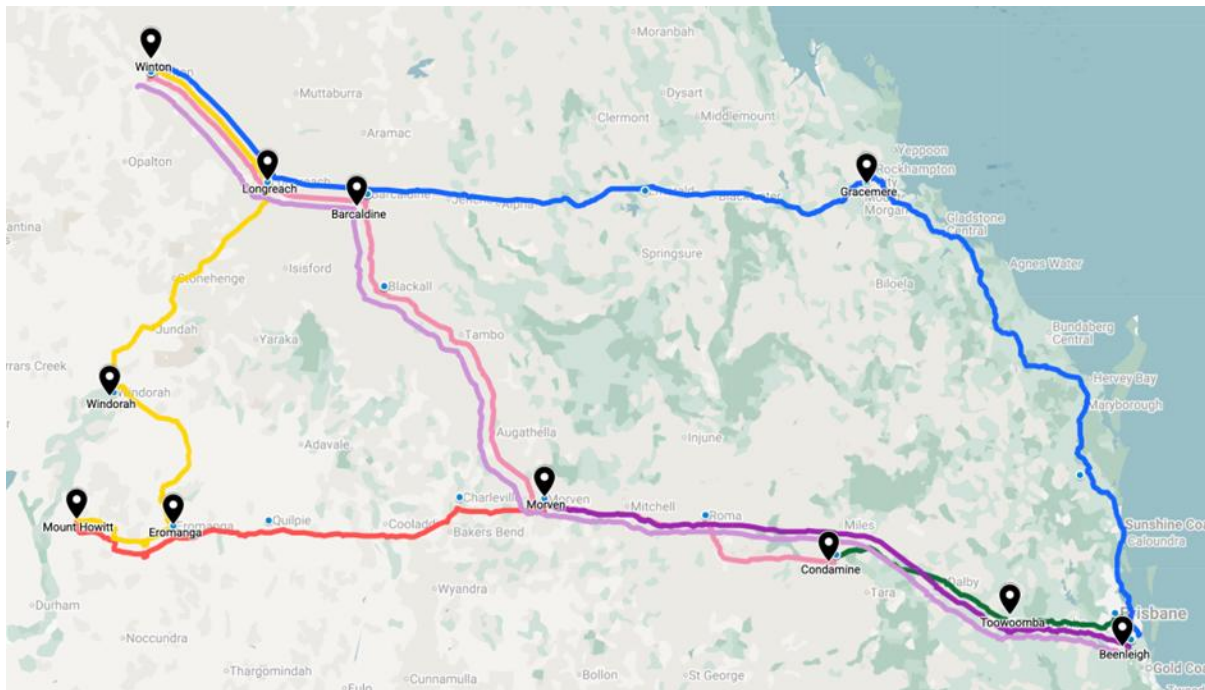
4091 Samples

6818 Consumers

Video



Replicate 4 – Trial Design



Replicate 4 – Trial Design

Transport Treatment	Lairage Treatment	Number of Cattle
Control (Morven Fast Truck)	Short	60
Morven Slow Truck	Short	30
Morven Slow Truck	Long	30
Morven Train	Short	59
Morven Train	Long	60
Winton Fast Truck	Short	30
Winton Fast Truck	Long	30
Winton Slow Truck	Short	29
Winton Slow Truck	Long	29
Winton Train	Short	75
Winton Train	Long	74
Feedlot Finished (30Days)	Short	80
		586



Results

- Minimal effect from long duration transport (research to be published)
- Lot feeding increases carcass weight and increases compliance to MSA (less dark cutters)
- Feeding at rest periods and in lairage important
- Better management of cattle on stations could improve compliance – feeding post muster, yard weaning etc.
- Best practice for glycogen and transport will influence carcass outcome and compliance to the MSA program

Presentation Outline

- Use of rail consignment for MSA cattle – latest research insights (*Note: this research has not been published yet, so this presentation will provide early insights*)
- **Importance of preparation of cattle for slaughter**
- How to use MLA feedback platforms

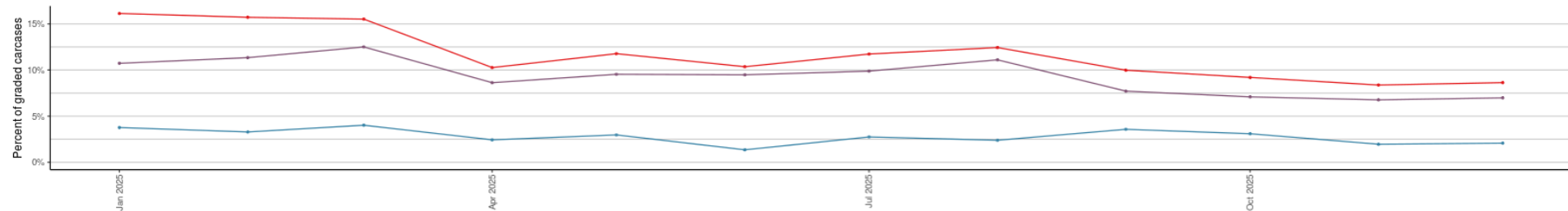
Reducing non-compliance Grass Fed, HGP-free

- MSA Compliance

- Pre-slaughter requirement
- pH < 5.71
- Rib Fat $\geq 3\text{mm}$
- Adequate fat coverage across all primals

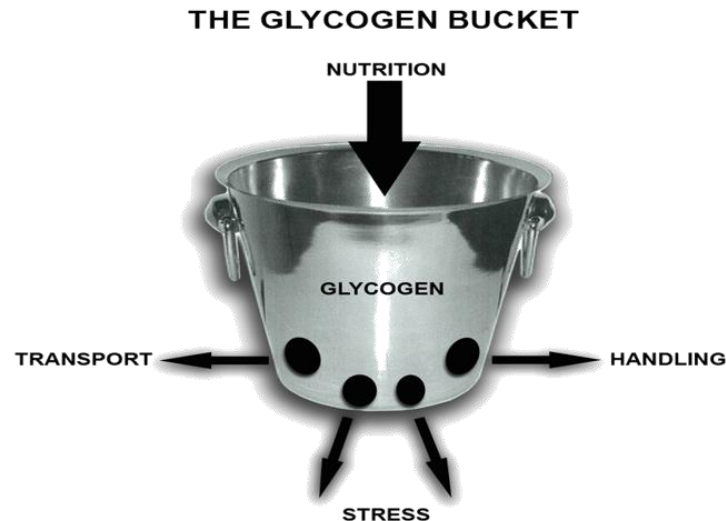
Monthly non-compliance

Non-compliant pH Rib fat



Maximise glycogen

- Nutrition
 - Mixing, drafting
 - Animal health
 - Heifers in oestrus
 - Weather
 - Loading/unloading
-
- Rebuilding glycogen
 - Takes 11x longer when high energy ration

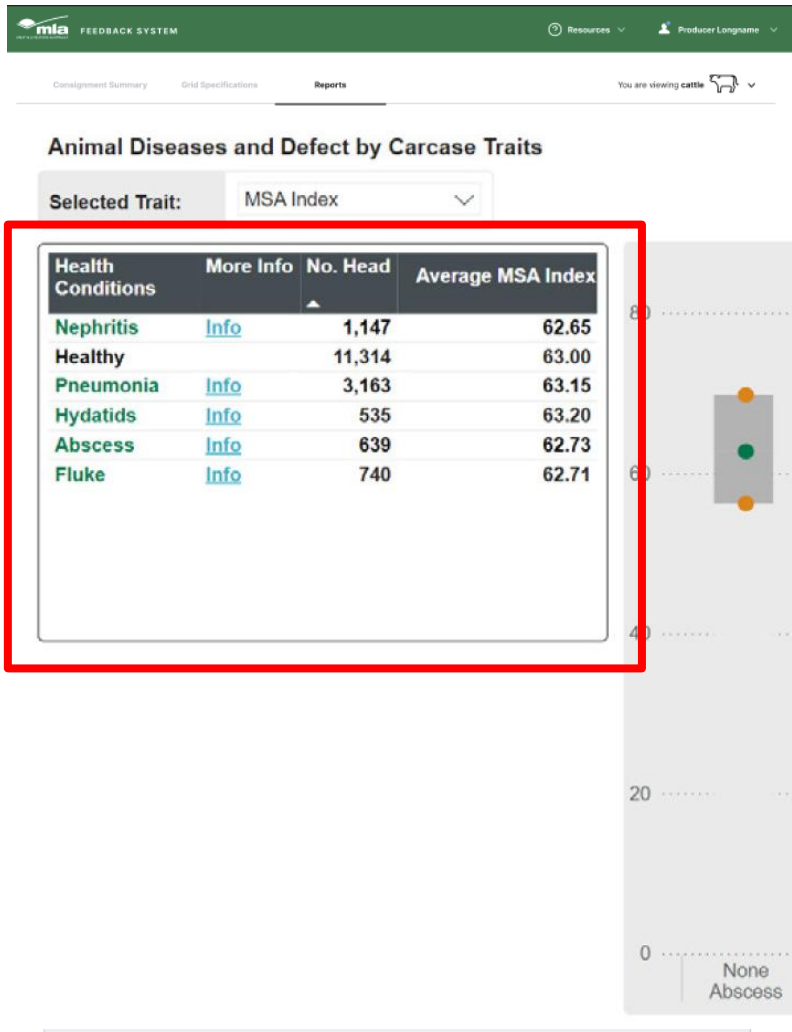


Presentation Outline

- Use of rail consignment for MSA cattle – latest research insights (*Note: this research has not been published yet, so this presentation will provide early insights*)
- Importance of preparation of cattle for slaughter
- **How to use MLA feedback platforms**

How are you performing?

- Finishers
 - myMSA
 - myFeedback (all data in one place)
 - Animal disease and defect
- Breeder/Backgrounders
 - Performance from the feedlot?
 - Through myFeedback



How do you compare?

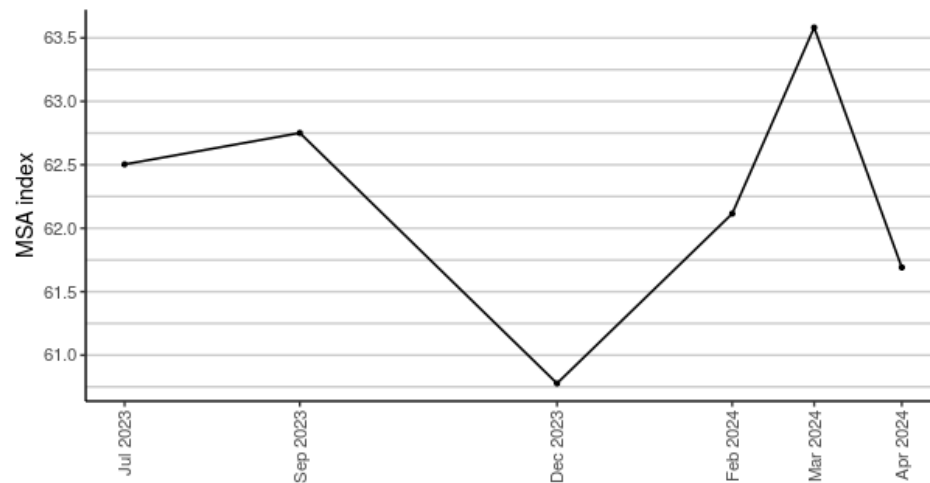
- Benchmarking

Compliance

	Your results (n)	Your results (%)	NSW (n)	NSW (%)
Total carcasses	310		927957	
Non-compliant	16	5.2%	35673	3.8%
Non-compliant pH	4	1.3%	29008	3.1%
Non-compliant rib fat	11	3.5%	6613	0.7%



MSA index



Questions





beefup FORUM

Morven, QLD 2026

Tackling Pasture dieback

Ted Callanan

Department of Primary Industries

Toowoomba

Queensland Pasture Resilience Program



Pasture Dieback

First emerged in buffel grass in CQ in 1990s

Causal agent: *Helicococcus summervillei* first described in the 1920s near Cooroy in SEQ

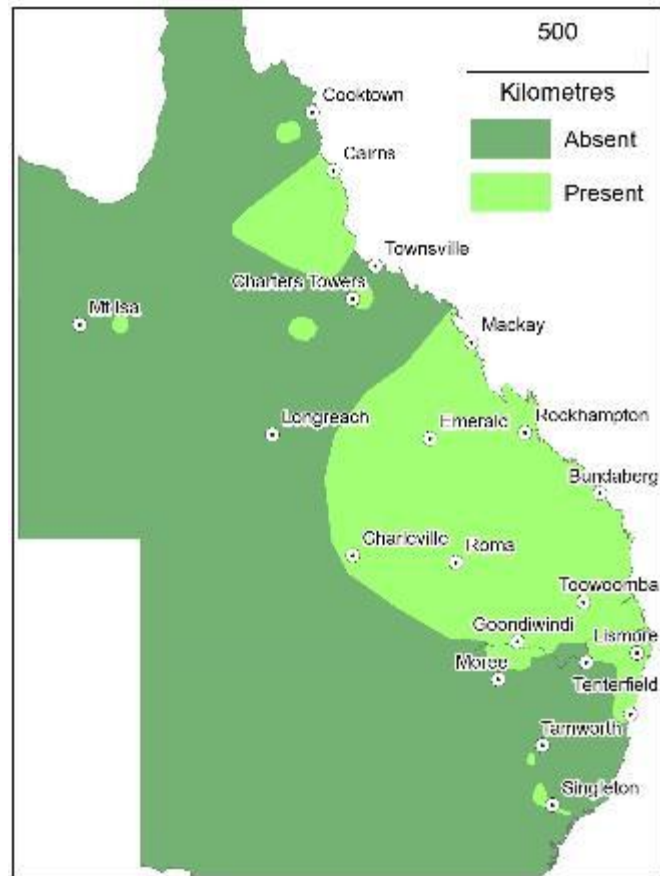
Spreading rapidly since:

2015 in CQ

2018 SEQ

2022 inland SQ

2024 SWQ



Pasture mealy bug - *Helicococcus summervillei*



Affects all tropical sown grasses to some extent but not legumes



What factors are needed for pasture dieback?

Pasture dieback cannot be prevented but there are factors that can affect its prevalence and severity.

Susceptible grass species



*Buffel grass.
DAF Queensland.*

+

Pasture mealybug



*Adult and juvenile
pasture mealybug. MM*

=

Pasture dieback



*Dead buffel grass.
DAF Queensland.*

Increased prevalence and severity

- High grass biomass
- Grass is actively growing
- Highly susceptible grass
- Secondary infections?
- Hot and humid conditions
- Viruses?

Reduced prevalence and severity

- Low grass biomass
- Grass is not actively growing
- Less susceptible grass
- Predatory insects present
- Cool or dry conditions
- Legumes present

Management strategies	Practice	Small patch		Widespread	
		Arable	Forest	Arable	Forest
Manage for recovery	Adjust stocking rate (forage budget)	✓	✓	✓	✓
	Monitor and treat weeds in bare patches	✓	?	✓	?
Improve pasture	Sow legumes and tolerant grasses	✓	✓	✓	✓
	Apply fertiliser	?	?	✓	?
	Cultivate	?	✗	✓	✗
Sow a break crop	Annual forage (graze or hay/silage)	✗	✗	✓	✗
	Grain	✗	✗	✓	✗
Control pasture mealybug	Spray pesticide	?	✗	✗	✗
	Burn	?	?	?	?

Manage for recovery



June 2019

Jan 2021



Feb 2024

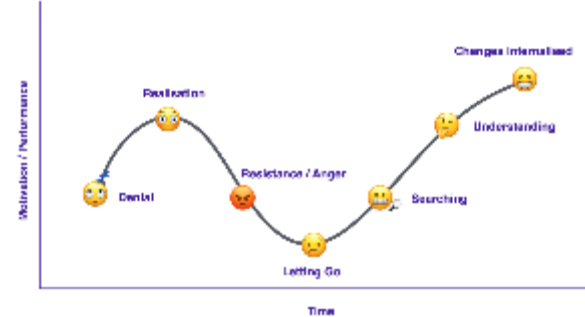
Case Study – Improve the pasture: reduce the risk

Take home messages

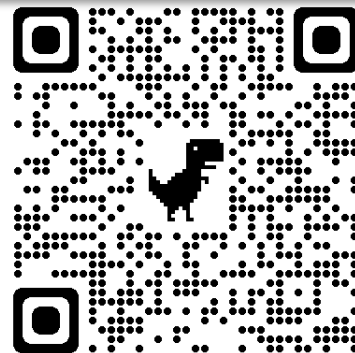
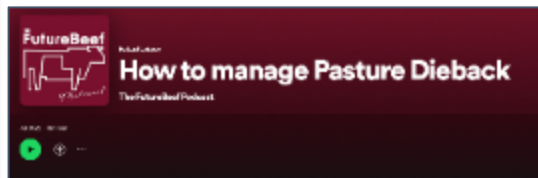
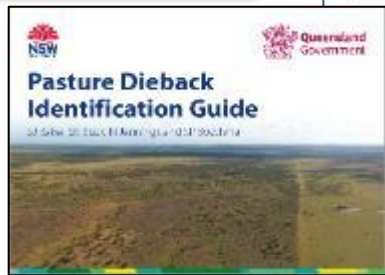
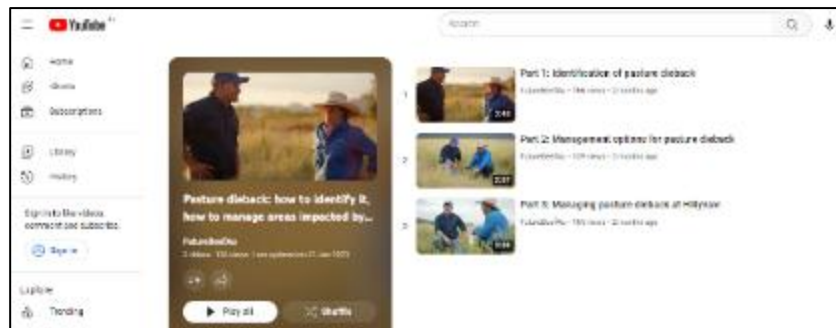
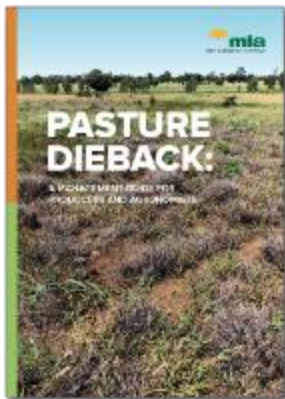
- Inspect and assess your paddocks for:
 - Pasture dieback

AND

 - Opportunities for improvement
- Reduce the risk factors
- Tolerant adapted grass and legume varieties may be limited in low rainfall zones <600mm
- Could be a “kick in the guts” or a “kick up the bum”
- Seek advice and support



Next steps: tools and resources



www.FutureBeef.com.au

www.mla.com.au

