For the latest in red meat R&D

Managing and monitoring your feed: Australian Feedbase Monitor

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Cibo Labs

Increasing accuracy of forage assessments

- Cibo Labs was founded in 2018

- The company is focused entirely on supporting and achieving more profitable farms and more sustainable landscapes.

- Cibo Labs combines satellite imagery with world-leading science in remote sensing and machine learning alongside with on-farm knowledge

- **Helping make decisions less complicated, more profitable, lower risk & more sustainable**

The 7 most expensive words in agriculture

"We have always done it this way"

What do we want from forage assessments?

Accurately determine:

- How much feed on offer there is (kg DM)

- How long it will last stock for

- How many stock can be run.

Even better

- When do feed gaps occur?

- Can supplements be used to fill this gap?

mla
MEAT & LIVESTOCK AUSTRALIA

Forage budgets start with assessment

- Require multiple assessments to ensure accuracy and account for paddock variation.

- Time consuming – difficult to achieve reliably across some paddocks and landscapes.
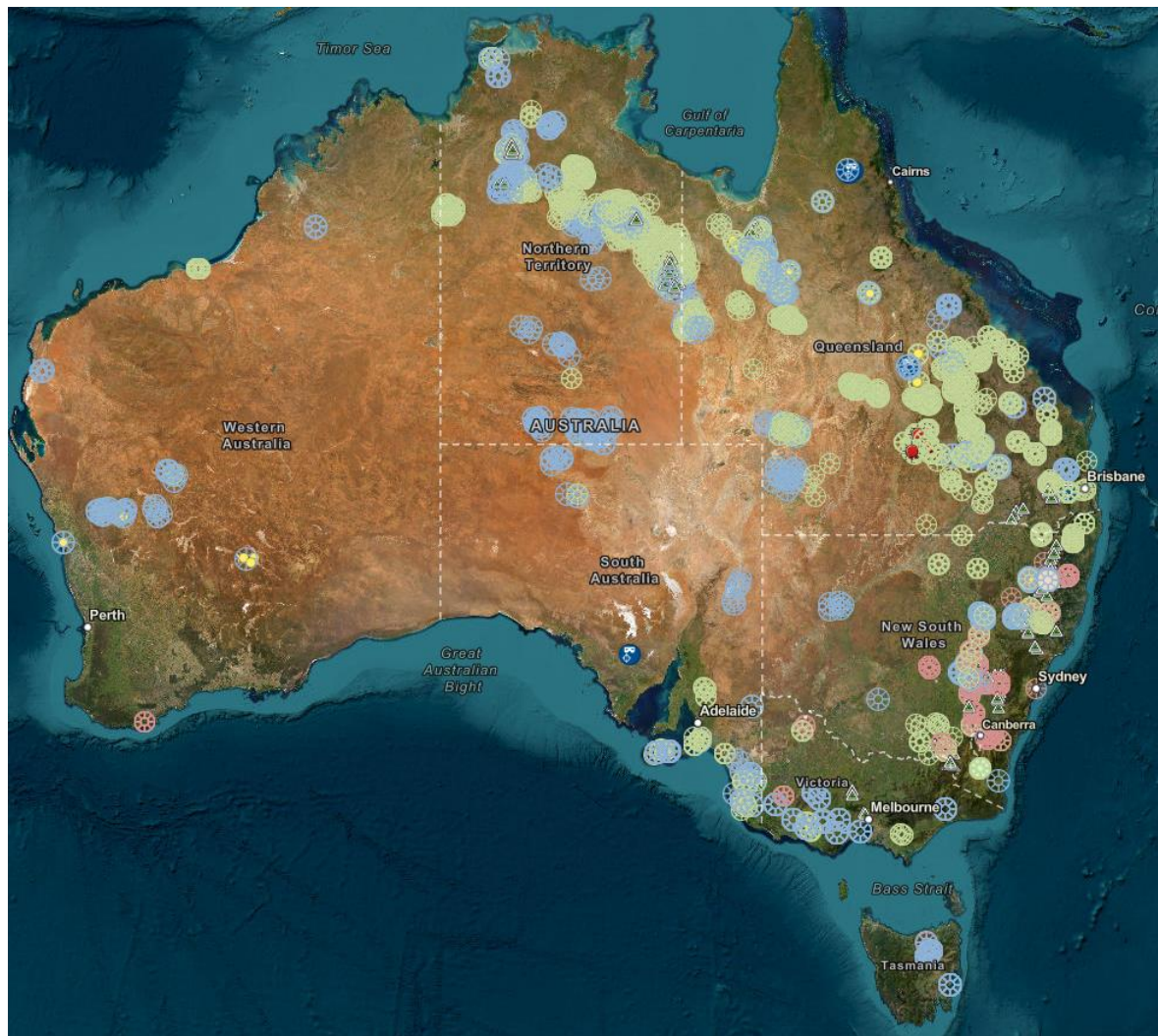
The science behind the service

Satellite imagery

Machine learning

>6500 field sites and counting

Mobile app for calibration

Pasture Key – adding accuracy to assessments

- Satellite data – accurate; repeatable and can provide a complete overview of land under management.

- Accurate to 10m^2 – provide 5-day updates.

- Reflect what is growing and where it is growing.

- Data to be used in forage budgets and forward planning.
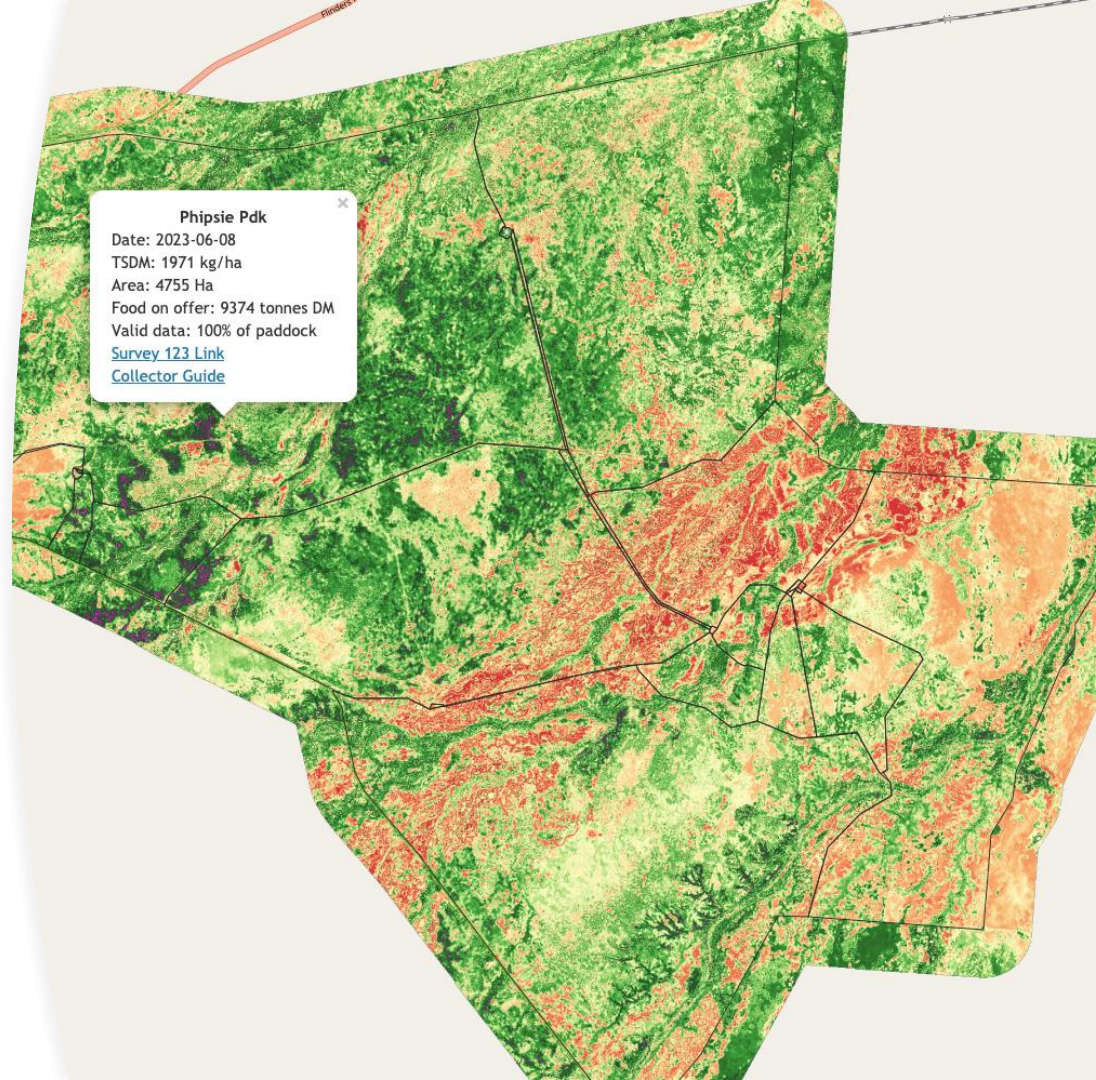
The Australian Feedbase Monitor

- The AFM is a $4.7m co-funded (50:50) investment by Cibo Labs and the MLA Donor Company.

- Freely Accessible to MLA Members through the MyMLA Portal (non-members $99/year).

- Linked to LPA Accounts (though MyMLA) to create account for each PIC.

- Land parcels associated with a PIC can be selected & will generate forage data on a 5-day basis.

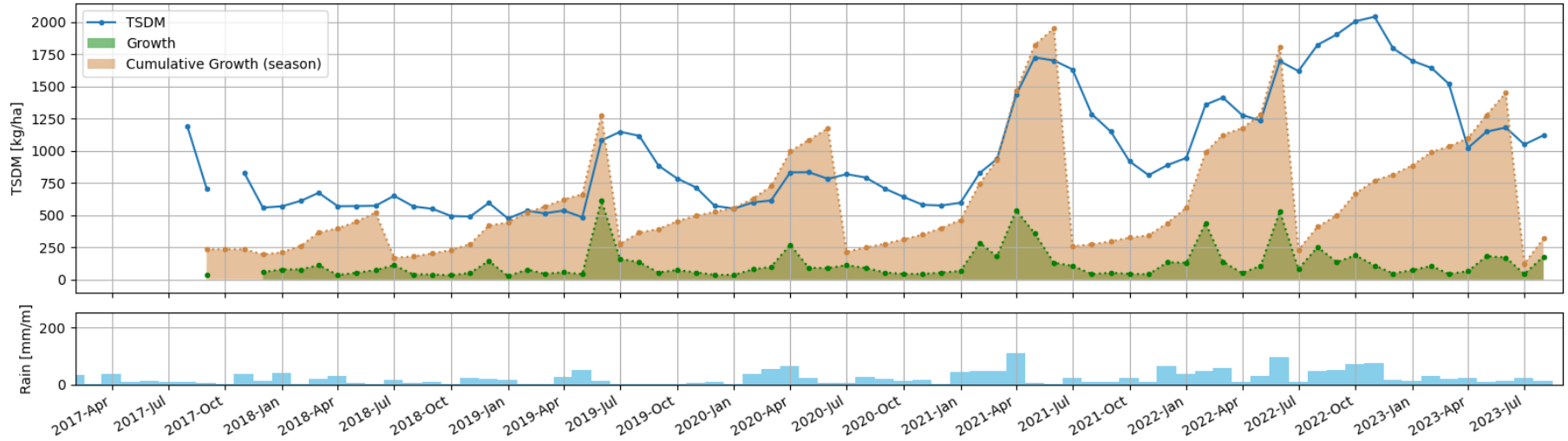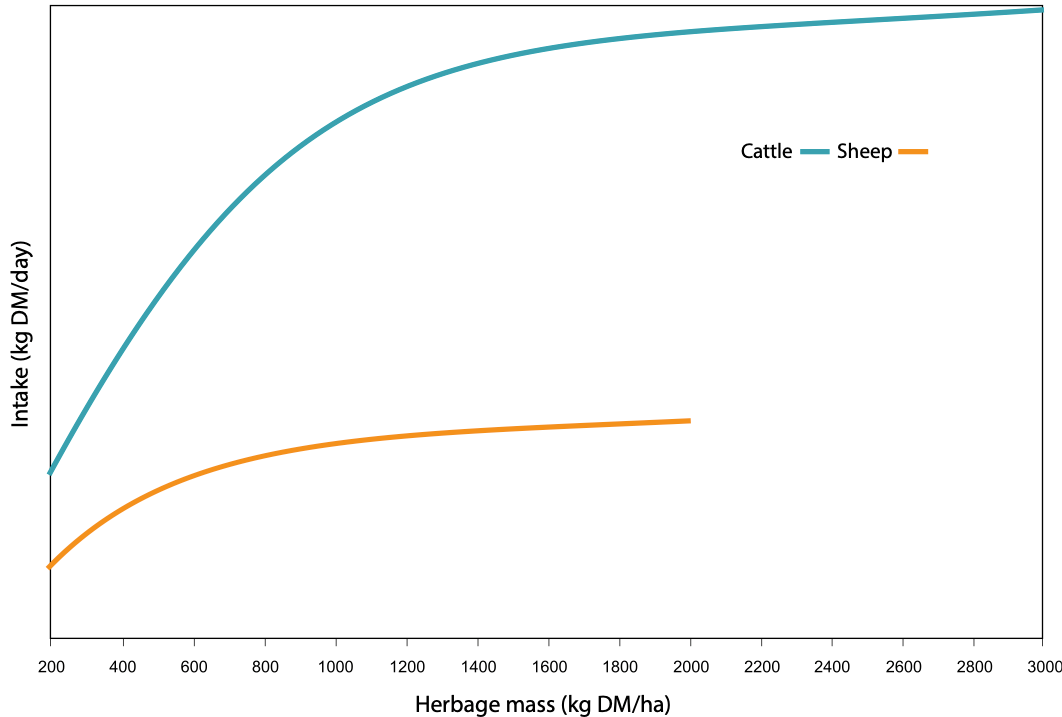- Creation of a 30-day rolling average for each PIC on an account.

Live Demonstration

Using the Australian Feedbase Monitor

Historically what do we grow?

What we know about intake

- When herbage mass increases, intake flattens out (physically can't eat any more) ~1600kg for sheep.

- When FOO is not limiting, intake is limited by digestibility (low digestibility = low intake).

- When FOO is limiting = supplements are needed to provide energy and protein.

Options for supplementation (sheep)

>1500kg DM/ha = feed is plentiful
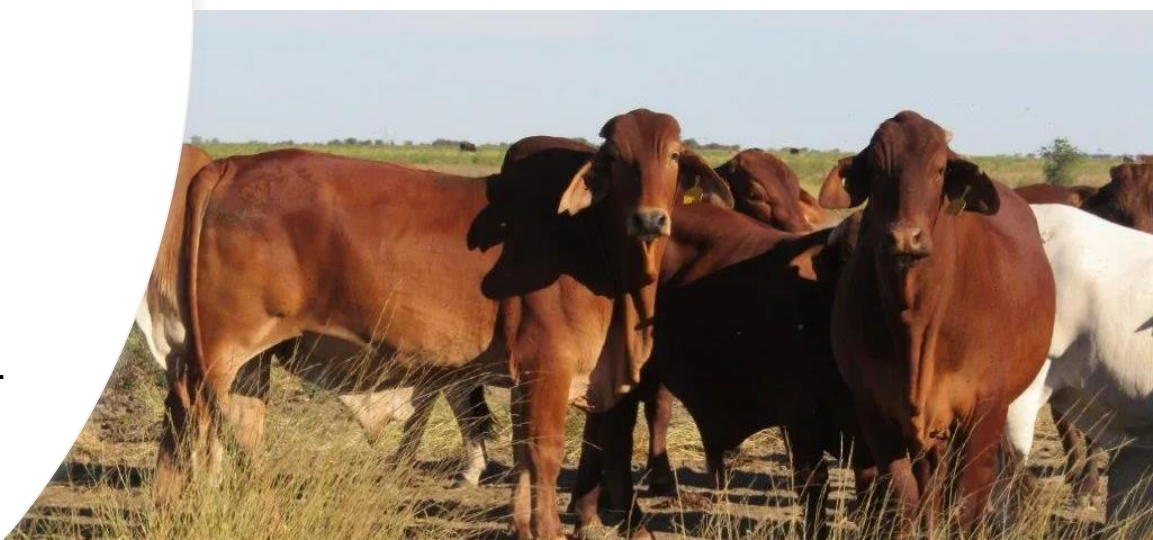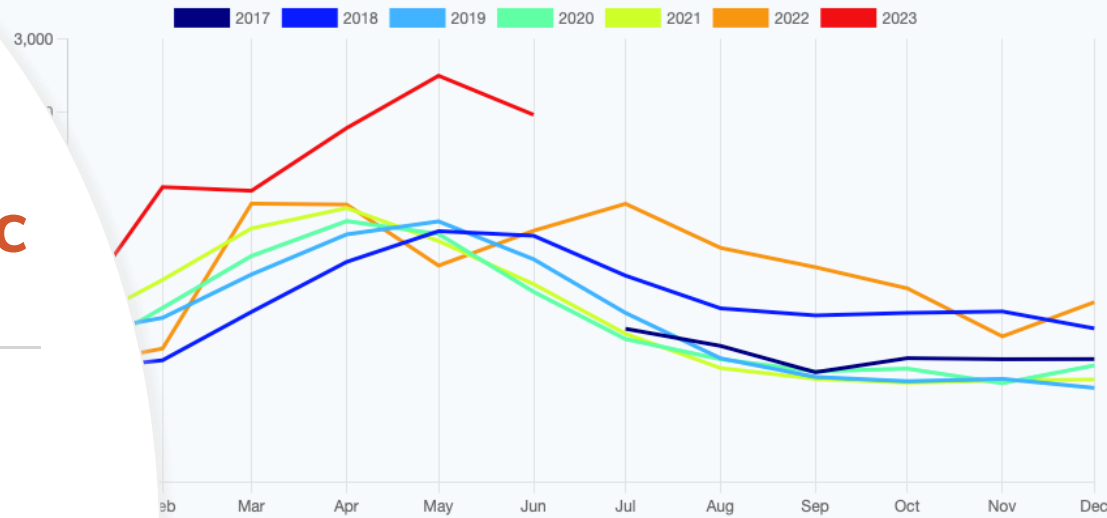All supplements provide an option/economic return (lick)
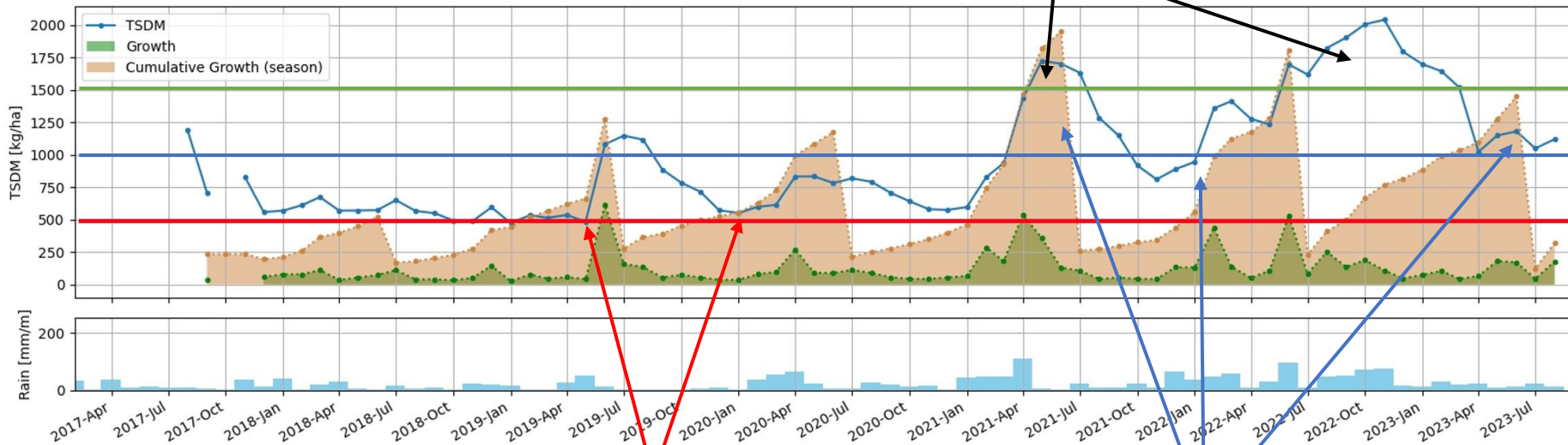
<500 kg DM/Ha = de-stocking/full feeding
Preserve ground cover

500-1000kg DM/Ha
Supplements need to provide energy and protein
*Lick much less effective

SUMMARY – using the AFM for strategic decisions

The AFM provides a baseline

- Is the season performing better or worse?

- Reflect on past decisions.

- Manage ground cover % to achieve targets.

- A starting value for forage budgets.

Pasture Key – The Next Step

- Moving from AFM to PastureKey

- Satellite data – accurate; repeatable and can provide a complete overview of land under management

- Accurate to $10m^2$ – 5 daily updates

- Reflect what is growing and where it is growing

- Data to be used in paddock level forage budgets and forward planning

Pripsie Pak
Date: 2023-06-08
TSDM: 1971 kg/ha
Area: 4755 Ha
Food on offer: 9374 tonnes DM
Valid data: 100% of paddock
Survey 123 Link
Collector Guide

Agriwebb Integration

- Grass (FOO) estimates every 5 days

    - *Kgs of Dry Matter per Ha*

- Estimates delivered directly as AgriWebb records & imagery available via Cibo interface

- Map insights to display paddock level readings

- Records are automatically pulled into AgriWebb reports

Visual display of 'Feed on Offer'
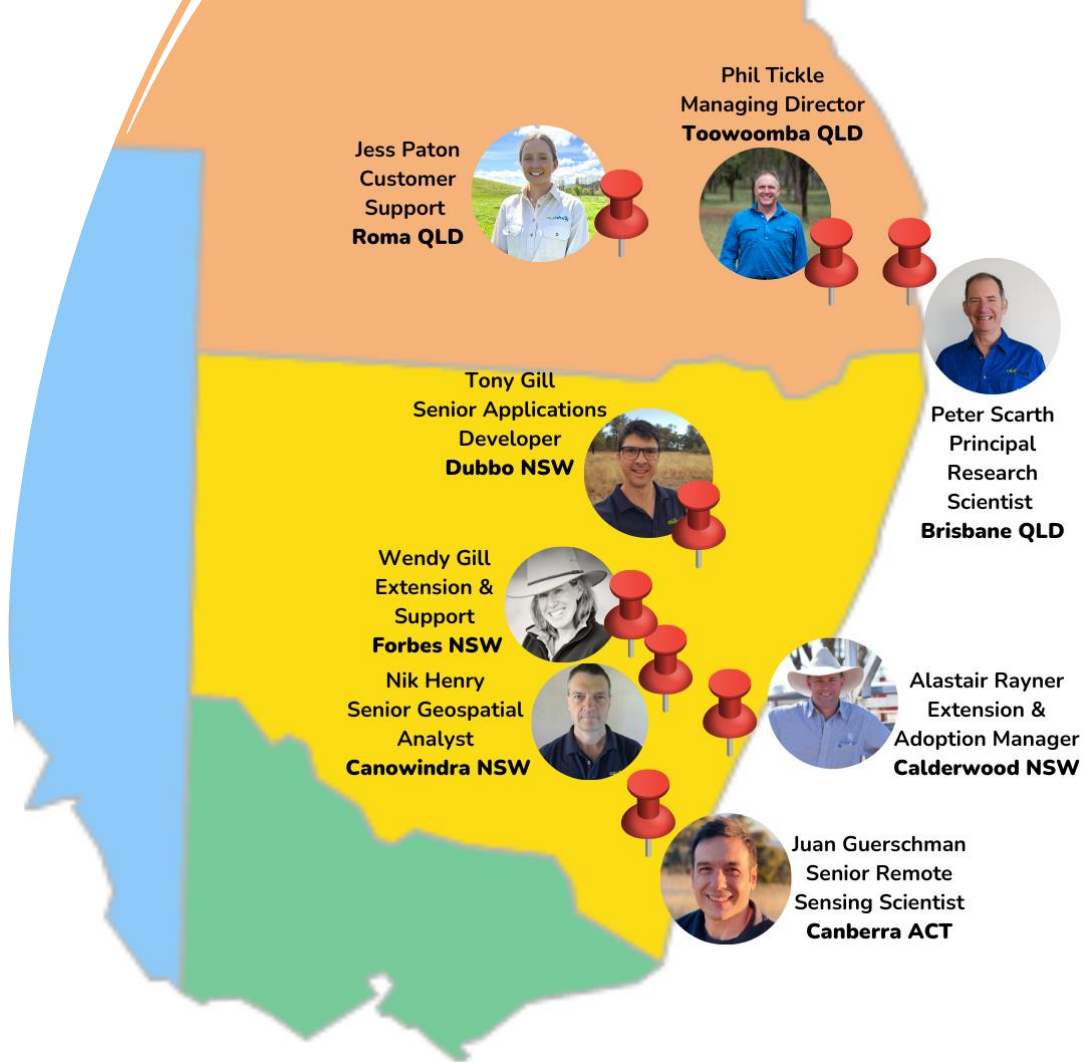
Grazing notifications

16
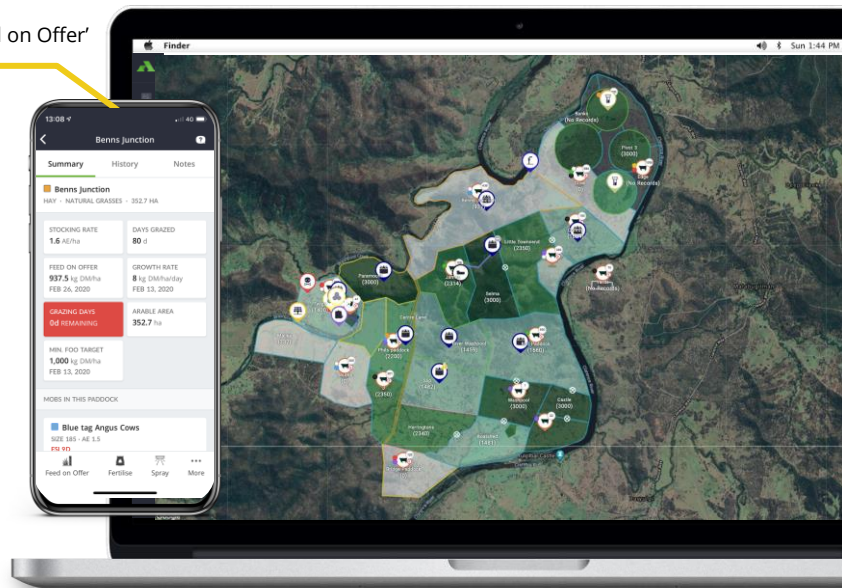
Meet the team

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www.cibolabs.com.au

www.mla.com.au/mymla

Take home messages

- The AFM offers all producers access to accurate, regular and objective assessments

- Access is free to MLA members (make sure your details are correct with MLA membership)

- MLA Help Desk on 1800 865 255 or send an email to membership@mla.com.au

- Add value and accuracy to your decisions and with other tools such as feed budget & stocking rate calculators.