



# COTTON, GRAINS, CATTLE

## Fundamentals of cropping-systems

Northern Territory

Timeline: 2022 to 2026 (4 years) A.2.2122026

The Cotton, Grains, Cattle (CGC) program is an integrated agricultural system, focused on bolstering productivity across the north's cropping and cattle sectors. The aim is to create economically sustainable, place-based integrated farming systems around cotton, grains and cattle to support production of universally marketable cattle from local crops, providing alternative market options.

Enhance economic sustainability of integrated farming for producers.

Create cropping systems suited to tropical climates & less reliant on imports.

Build local capacity to support production, reducing costs & biosecurity risks.

Ensure ethical value, responsible planning & social licence.

Develop agronomy & nutrient management to reduce farming carbon footprint.

## Project: Fundamentals of sustainable cropping-systems in the NT

The 'Addressing the fundamentals of cropping-systems that deliver sustainable growth of agriculture in the NT' is one of six projects in the CGC program. This project is addressing knowledge gaps in broadacre crop establishment, agronomy and biosecurity to support growers and investors in the responsible expansion of the NT's agricultural sector.

### research focus

- ↳ Address knowledge gaps in crop establishment, agronomy and biosecurity.
- ↳ Develop technical skills and in-depth understanding of the social aspects connected to broadacre cropping in the NT.
- ↳ Combine cropping trials with mapping of soil types and water holding capacity at participating trial sites and other potential cotton growing areas.
- ↳ Include scenario planning of the economic and environmental impacts in the project's recommendations.

### expected outcomes

-  Support growers and investors to make informed decisions for reliable production.
-  Improved information in crop establishment and rotation to maximise production and profit.
-  Nutrition application and selection for pest insect and disease management.
-  Grower toolkit and risk management plan.
-  Information for First Nations land councils, development corporations and communities interested in broadacre cropping.
-  Inclusion of the scientific and commercial community throughout the trials.
-  Tailored training material for the NT cotton industry.

### project partners



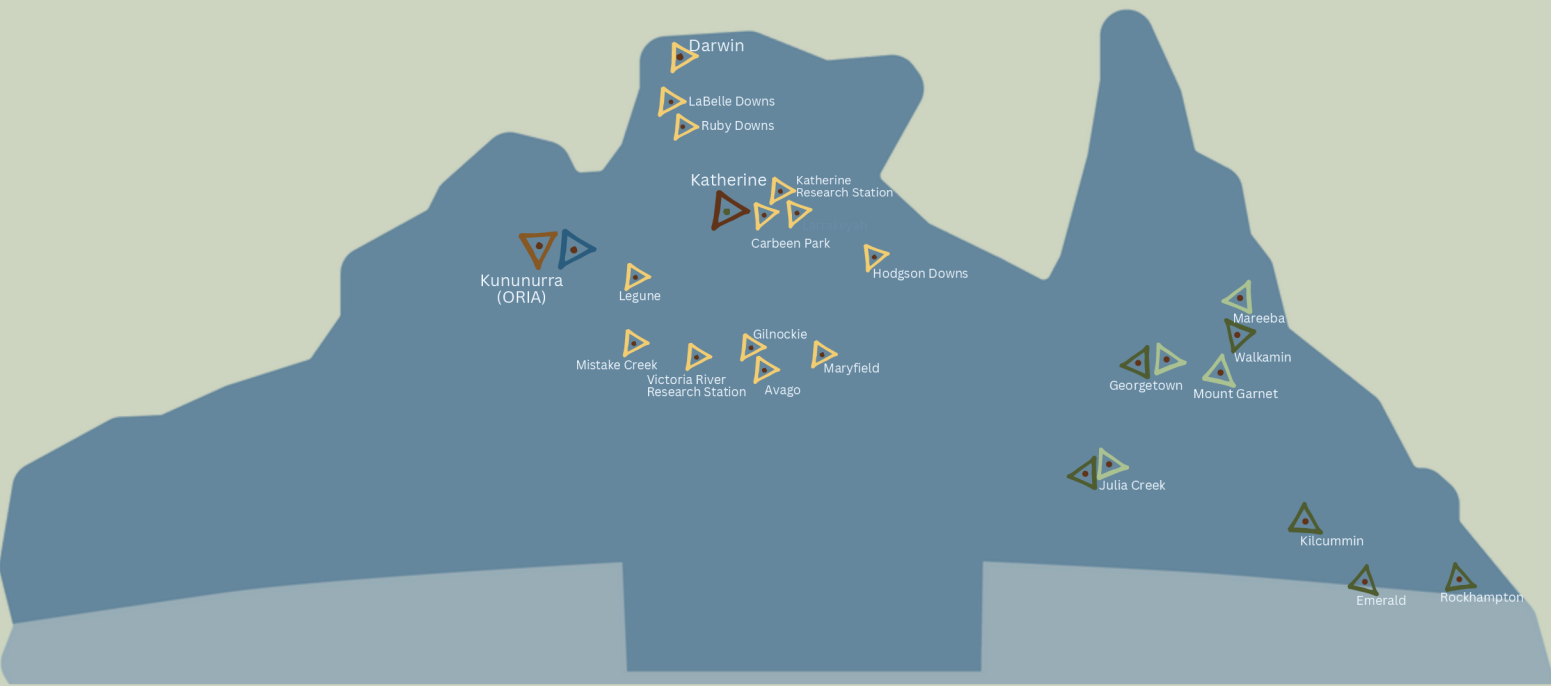


The Cooperative Research Centre for Developing Northern Australia (CRCNA) is delivering industry-led research and development collaborations to enable the sustainable economic growth of Northern Australia. CRCNA funding helps to de-risk investment through new technologies, products and services which address industry issues specific to the north.

Cotton, Grains, Cattle runs for 4 years, and has over 30 collaborators who are committed to building producer, agronomy and research capacity across Northern Australia.

CRCNA invests in agricultural research and development to support:

- sustainable tropical production
- innovative supply chain solutions
- new technologies, models and systems
- climate resilience and nature positive development.



## COTTON, GRAINS, CATTLE Project locations

- Crops for Cattle (NT)
- Fundamentals of cropping systems (NT)
- Sustainable systems for crop diversification (ORIA)
- Cropping enabled cattle production (WA)
- Extension capacity of cropping-systems (NQ)
- CGC farming systems (NQ)

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