

Sittara Pty Ltd

A family farming business established in 1997, based south west of Goondiwindi leasing, sharefarming and owning land.

Primary enterprise - Grain production
Secondary enterprises - Contract farming
Droughtmaster cattle stud
Opportunity cattle trading
Consulting - agronomy
finance
industry

Sittara Farming System

Farming system developed to mitigate weather, disease, pest, nutrition and labour constraints.

Internally focussed on what we can manage

CTF and minimum tillage

Structured 5 year rotation strategy

V	V	S	W	S	W	S	W	S	W	S
C	ereal	Fallow	Legume	Fallow	Cereal	Fallow	Fallow	Crop	Fallow	Fallow

Optimise not maximise cropping frequency

Planting and harvest are most expensive operations so make every crop profitable – or don't plant.

Incorporating marketing strategies and grain storage systems to mitigate market volatility

Innovation has been a theme for us

The first commercial gps controlled tractor in the world on our farm

- Game changing technology
- Reduced all inputs up to 15% (pesticides, fertilisers, fuel and labour)
- Enabled true controlled traffic systems improving soil structure

Early adopters of technology and varieties

Not zealots or puritans, always working from first principles

Pay attention to what our country and crops are telling us

Decline in financial resilience over time making this harder

Things are changing

We are above average farmers, but......

Weather volatility is frequently beating cultural mitigants now

Despite constant innovation – neither production nor profit has risen

• Yields and profits are now declining due to weather volatility

Risk profiles are shifting faster than awareness

Structured systems becoming more opportunistic
Productivity strategies are shorting natural capital
Short term compromises have long term consequences
The problems are new beyond internal systems manage

The problems are now beyond internal systems management Credit squeeze is inevitable

What is happening commercially?

In any business model the decision to invest must incorporate a risk reward assessment.

Typically, low risk investment can be justified on relatively low returns.

Conversely, higher risk ventures require higher returns to justify the investment.

Australian agriculture is being wound into a high risk low reward category that belies the value of the sector to society

Climate change is the major driver, coupled with grossly inadequate public policy settings around mitigating risk

Why does it matter?

The farmer's first job is to provide for their family

If the returns don't match the risks then individually we can and likely will choose not to be farmers, but society still needs someone to do it

It is a social imperative to ensure the agricultural sector is viable

Ergo as a society, we must attract, retain and protect investment, human and natural capital to optimise our agricultural capacity to underpin a stable society

A business as usual approach with incremental reform won't do it

What does it mean for the sector?

Need to better align natural capital management cycles with finance/tenure cycles or we will never catch up.

Narrow policy and R&D productivity focus will only make things worse

Agricultural business and structure must evolve fundamentally

For most things, history is a now poor indicator of the future in agriculture

Without transformational change we will lose the most important skills and characteristics from Australian agriculture:

- Adaptability
- Resilience

- Innovation
- Emotional connection

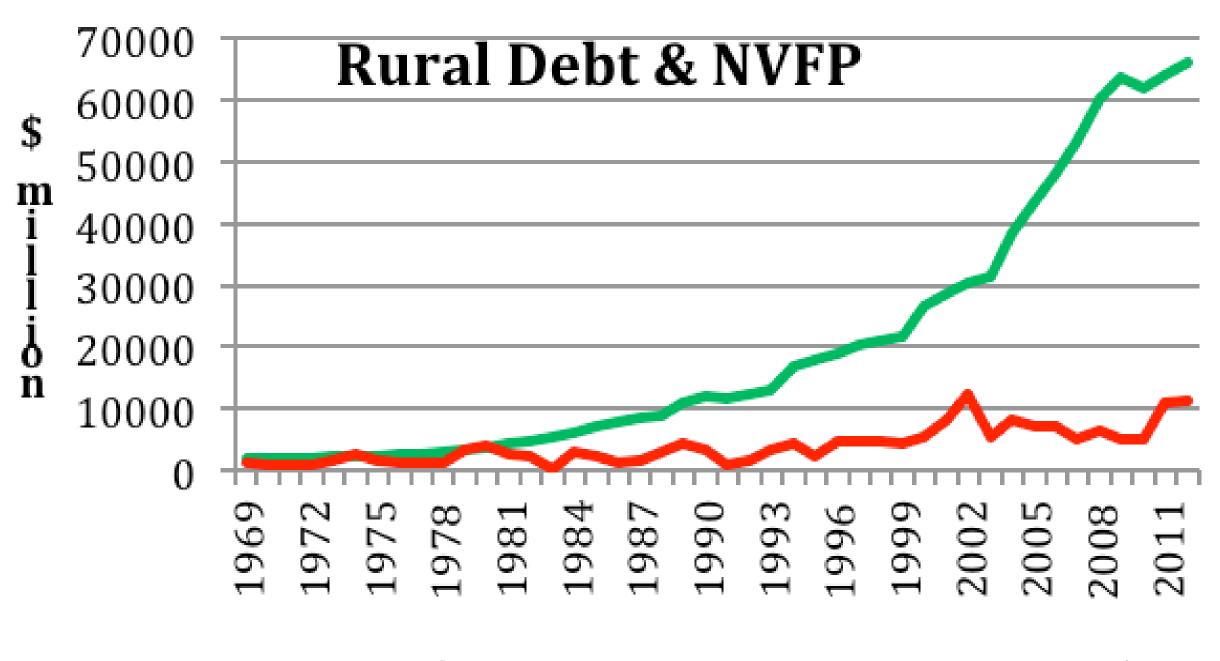
Financial implications

3Cs of Credit

- Collateral what can we liquidate to recover the debt
- Cash flow can a borrower service the debt
- Character attitude to risk is a key component

Banks are like casinos. They take a calculated risk on individual transactions, but they work to ensure the odds are in their favour so that the overall book is safe.

Climate change is increasing risk and threatens the safety of the book and so it threatens cost of capital and ultimately access to credit.



Rural Debt \$m RBA D9 ——Net Value Farm Pr.\$m

Agriculture is the key, but.....

Agricultural practice is determined by public policy and market forces

The current system is what it is because that is what the market prescribes – intentionally or otherwise

The tendency to blame farmers for agricultural outcomes is trite, unfair and unhelpful

That said, agriculture must also own its reality rather then deny it

Hannah Critchlow suggests that conservative thinkers become more conservative in the face of fearful outlooks

The greatest impediments to the necessary changes rising from climate change are emotional and psychological - inside and outside of the agricultural sector

Wheat

Wheat is made up of approximately 72% starch and cellulose

Basic compound more or less is C6H12O5

Therefore wheat is approximately 28% C by weight

This equates to roughly 800Kg of CO2 stripped from the atmosphere per tonne of wheat produced

The production of wheat is not a net emitter

The wheat cycle is a net emitter because of transport, processing and consumption.

The climate protocol states this as an agricultural emission.

Agriculture reinvented

Agriculture as a sector arguably has the most to lose from a changing climate, BUT society as a whole will inevitably feel the knock on effects.

We have opportunities to lead and benefit from the solutions at a farm and community level.

Society must recognise the integral importance of agricultural and natural capital sustainability and ensure the full cost is met

Any person or institution arguing for incremental or minimalist responses to the impacts of climate change for agriculture does not understand the problem.

In the mean time

The risk profile of ag production in my district has shifted and severe financial hardship is inevitable for the entire community

I have little to no confidence that the policy settings or structural arrangements for agriculture will evolve fast enough to prevent it

I am now planning our exit from the production sector, but not entirely from agriculture.

We are now implementing a progressive scale down

Opportunities remain in the sector, but land/rent prices will need to correct to reflect the emerging production potential

My own situation aside, the people who will leave ahead of the pain are the ones we can least afford to lose from the sector.

There are better bets than conventional ag

Chillamurra Solar Farm – 4.8MWp

Selling power into the NEM

Project Life: 30 years

Projected ROI: 10% average

Daily Generation: 28 MW seasonal variations

Powering: ~2500 homes

Nominal generation capacity 1.4MWp/ha

No Government subsidies.

We know what is happening and what is likely to happen – any policy or research discussion that is not grounded in this knowledge is irrelevant, a distraction and a drain on the essential resources and energy needed to address the greatest challenge facing Australian agriculture bar none.

There is widespread and willful ignorance about climate change and/or what is causing climate change that defies logic or reason.

We know logic is not enough, but data is essential.

The fastest likely strategy to improve the outlook for Australian agriculture and therefore Australian society will revolve around financial incentives - so research must focus on viable incentives for change and clarity in the commercial opportunities that can sustain communities.

