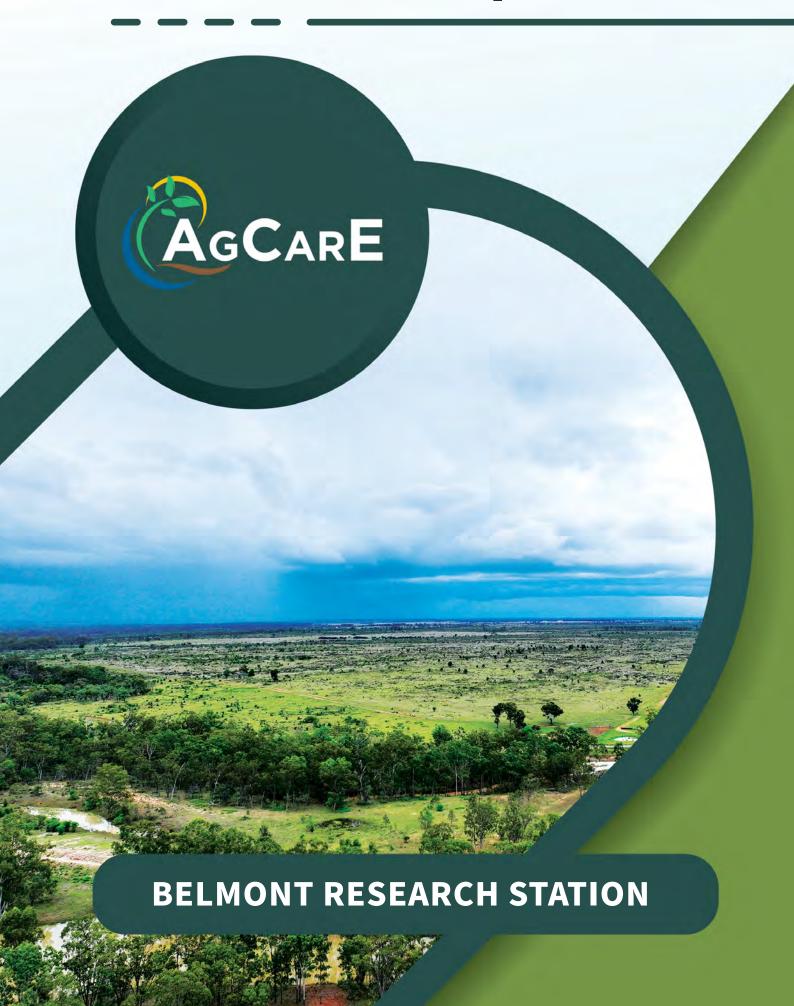
Assessment Report





Overview of Natural Capital

Measuring, valuing, managing, and enhancing Natural Capital is essential for building the resilience of landscapes and the future of production agriculture. AgCarE aims to assist producers build farm output, landscape resilience and financial strength by:

- Providing a framework for assessing the health of a farm Of the co-dependent relationship between primary production and the environment on an agricultural property.
- Enable better productivity through building Natural Capital and Land condition.
- Allowing better access and ease in understanding of the emerging Natural Capital marketplace for producers giving access to ecosystem service payments.
- Improving risk profiles for rural financing/banks and other input providers.
- Building social licence and measuring industries contribution to climate goals at a producer and aggregated level.



Vision and purpose of AgCarE

The **OPPORTUNITY** is to allow landowners and other land stewards to be recognised and financially rewarded by both domestic and international markets for maintaining and enhancing the natural environment of their landscapes while sustainably producing food and fibre for the benefit of all.

The **PURPOSE** of AgCarE is to be the vehicle that identifies and acknowledges the natural assets and management actions that support and enhance our natural environment and efficient, sustainable, and productive businesses.

The **BENEFITS** to society provided by agriculture proactively measuring natural capital condition on rural properties is far reaching. With society changing rapidly both socially and economically, most leaders are reactive. In doing so, uninformed statements are made, unwarranted pressure placed on agriculture. AgCarE, industry written, can empower producers, to be the leaders of agriculture, to bring reassurance to consumers, and to expose those who continue to condemn our industry.

The **VALUE PROPOSITION** to landholders is the ability to monetise natural capital. This requires customers (or end users) who are willing to pay for the AgCarE product and markets (or functions) that value the AgCarE product for specific use cases. Examples of specific use cases are reduced interest rates from banks, access to funding (e.g. drought funding), reductions in leasehold land rates, or pathways to carbon, biodiversity and nature repair markets.

The **VALUE PROPOSITION** to agricultural industry is the importance of data – providing industry with the key power for controlling and influencing outcomes for aglandowners and businesses.

The AgCarE Assessment Report provides you with your natural capital baseline result.





- Overview of Natural Capital
- 4 Vision and purpose of AgCarE
- 6 Landholder / Property Details
- 6 Agricultural Description
- Carbon Balance
- Carbon Results
- Ecological Values
- Ecological Values Results
- Sustainable Management
- 17 Sustainable Management Results
- Commodities
- Beef Results



LANDHOLDER / PROPERTY DETAILS

Name/s:	AgForce
Business Name:	AgForce Queensland Farmers
ABN or ACN:	57 611 736 700
Property Name:	Belmont Research Station
Dropouty Addross	887 Etna Creek Road
Property Address:	ETNA CREEK Qld 4702
Email:	agforce@agforceqld.org.au
Phone:	07 3236 3100
Lot on Plans:	1054LIV40364, 10SP142291, 118LN284, 144LN1562, 1664LIV40479, 1666LIV40480, 1877LIV40626, 1RL5724, 1RP601603, 2197LIV40813, 2RP610451, 3RP601603, 4RP601603, 5RP601603, 6RP601603, 7RP601603, 8RP601603, DRP835031
Property Size (ha):	3645
LGA:	Livingstone Shire

AGRICULTURAL DESCRIPTION

Livestock		Seedstock - BEEF	Feedlot - BEEF
	✓	Breeding - BEEF	Backgrounding - BEEF
		Sheep (MEAT)	Intensive Livestock
		Sheep (WOOL)	Goats
Farming		Grains, Pulses & Oilseeds Sugar	Cotton Horticulture Forestry

Further details All cattle on property are on agistment.

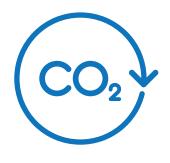


Carbon Balance:

If the Carbon Total Net GHG result is a negative you are sequestering carbon, if the result is a positive you are emitting.

The result is calculated using the Food and Agriculture Organisation of the United Nations (FAO) Ex-Act Carbon Balance Model with your carbon inputs, fuels, livestock etc, and the Queensland government's Foliage Projective Cover Avoided Clearing (AC) data .

The result is a guide only, especially the AC calculation.



CARBON RESULTS

Property Name	Belmont	Climate	Tropical Dry
Soils	HAC	Total Area (ha)	3,645

ENERGY USAGE

[POSITIVE = emitting NEGATIVE = sink]			
Description	All GHG TC02 eq	Per Year	Balance TC02/eq
Electricity	1	1	1
Diesel	16	16	16
Petrol	8	8	8
Gas (LPG or Natural)	1	1	1

FERTILISER & PESTICIDES

[POSITIVE = emitting NEGATIVE = sink]			
Description	All GHG TC02 eq	Per Year	Balance TC02/eq
Herbicides	1	1	1
Insecticides	1	1	1

CROPPING - ANNUAL & PERENNIAL

[POSITIVE = emitting NEGATIVE = sink]			
Description	All GHG TC02 eq	Per Year	Balance TC02/eq
Leucaena	-263	-263	-263

LIVESTOCK

[POSITIVE = emitting NEGATIVE = sink]			
Description	All GHG TC02 eq	Per Year	Balance TC02/eq
Beef cattle	1,928	1,928	1,928
		Sub - Total (TCO2 eq)	1,693

CARBON RESULTS CONT.

	[POSITIVE = emitting NEGATIVE = sink]		
		ha	Balance TC02/eq
Potential Avoided Clearing			-22,134
Potential Human Induced Regeneration		-8,018	
	Potential To	otal Carbon Abatement	-30,152
	Total Net GHG (TCO2 eq)		-28,459
	Total Net GHG (TCO2 eq)/ Per ha		-7.8

Comments:





Ecological Values:

Identifies and measures your property's ecological values:

- Protected flora, fauna and ecosystems both State and Federal
- High priority catchments (GBR)
- Vegetation status both Remnant and Non-remnant
- Water features wetlands and watercourses and stresses i.e. drought
- In State and Federal environmental protection legislation; VMA, NCA and EPBC.



ECOLOGICAL VALUES RESULTS

Property Name	Belmont	Climate	Tropical Dry
Soils	HAC	Total Area (ha)	3,645
Address	887 Etna Creek Road, ETN	IA CREEK QId 4	702
Description	Very high ecological values - containing substantial potential carbon areas and biological offset areas		
Climate Stressor	Property is located in a dro	ought declared	LGA (greater than 2 years)

VEGETATION MANAGEMENT RESULTS

Wetlands	PRESENT
	PRESENT
Essential Habitat (EVNT)	Curlew Sandpiper (CE)
	Estuarine Crocodile (V)
	> Fitzroy River Turtle (V)
	 Southern Snapping Turtle (CE)
	> Squatter Pigeon (V)
•••••	••••••

PRESENT

Threatened Ecological Communities

- > Coolibah Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions
- > Littoral Rainforest and Coastal Vine Thickets of Eastern Australia
- > Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions

Refer to your AgCarE maps generated for this property.





Sustainable Management:

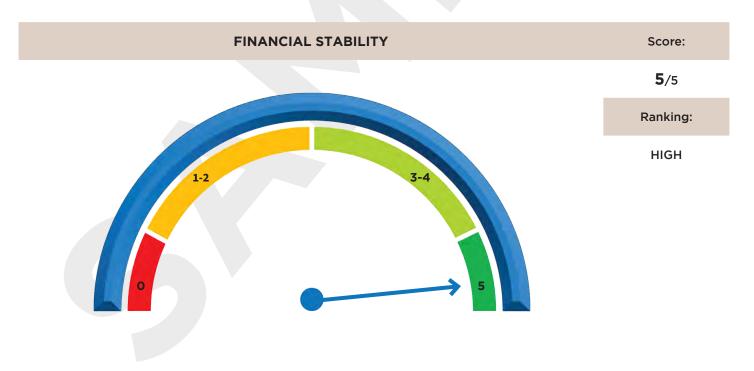
Identifies and measures those activities on property that relate to good governance – in accordance with National and International Environment, Social and Governance (ESG) Goals.



SUSTAINABLE MANAGEMENT RESULTS



MLA updates, AgForce emails, National & local news Comments:



Property is owned by an organisation and all records must be kept. Comments:

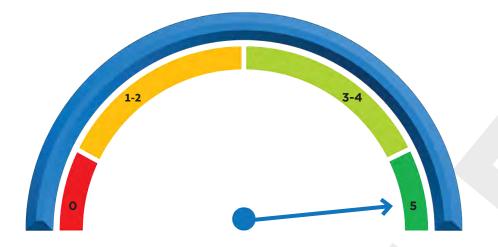
AGRIBUSINESS MANAGEMENT

Score:

5/5

Ranking:

HIGH



Comments:

Keep up to date via internet and E-learning. All service and maintenance records are kept

FORMAL VEGETATION/BIODIVERSITY ASSESSMENT

Score:

0/5

Ranking:

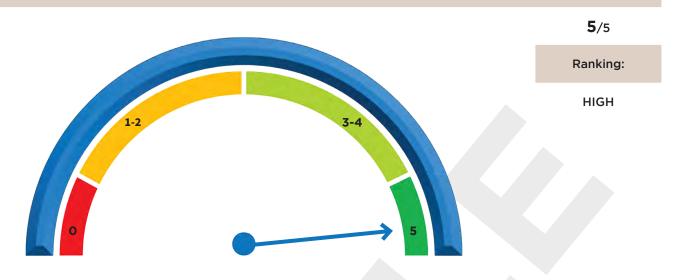
NIL



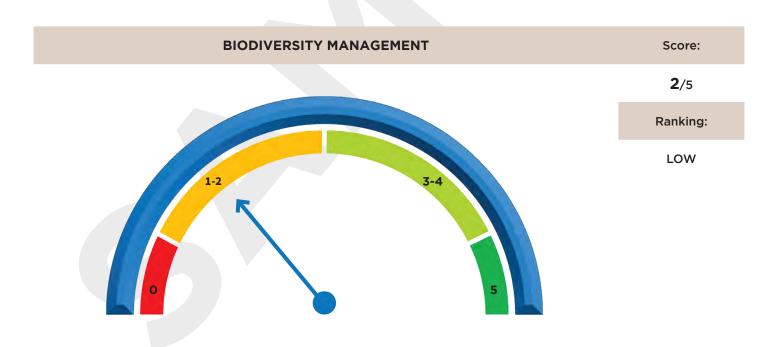
Comments:







Added contours to roadways, filled in washouts in gullies with rock & gravel. Comments: Soil types are recorded on Phoenix.



Riparian areas have been fenced off to promote natural regeneration. Lantana, Comments: Giant Rats Tail Grass, Parkinsonia and other weeds treated regularly.

WATER QUALITY & MANAGEMENT

Score:

5/5

Ranking:

HIGH



Comments:

River levels are monitored during wet periods & drought and recorded in a diary.

DROUGHT MITIGATION & MANAGEMENT

Score:

5/5

Ranking:

HIGH



Comments:

Use both government and non-government sites to monitor weather predictions. Stock numbers are reduced during drought.

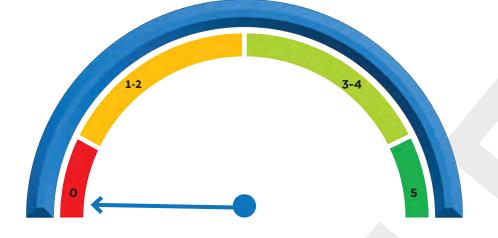
CERTIFICATIONS & ACCREDITATIONS

Score:

O/5

Ranking:

NIL



Comments:

PLANNING & MANAGEMENT SYSTEMS

Score:

5/5

Ranking:

HIGH



Comments:

Control of feral animals is ongoing. Skip bin for rubbish, old steel recycled, batteries recycled. Cloud based property plan is maintained.

FUEL/CHEMICAL USE & STORAGE

Score:

5/5

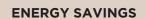
Ranking:

HIGH



Comments:

Fuel is stored in overhead bunded tanks, refuelling is carried out on concrete slab. Onsite training at time of induction. Staff have ChemCert accreditation.

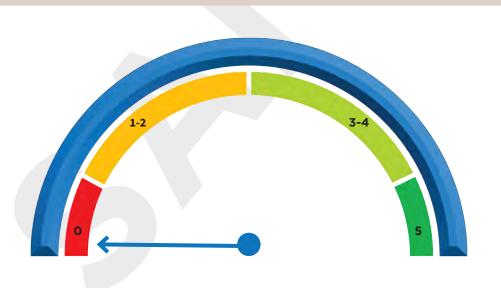


Score:

O/5

Ranking:

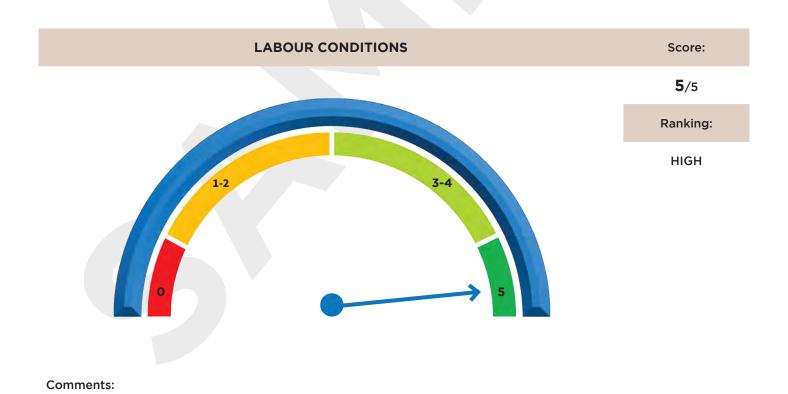
NIL



Comments:









Staff undertake training as required. First aid kits in all buildings and vehicles. Comments:





Commodities:

AgCarE commodity modules assesses the management of your commodities.

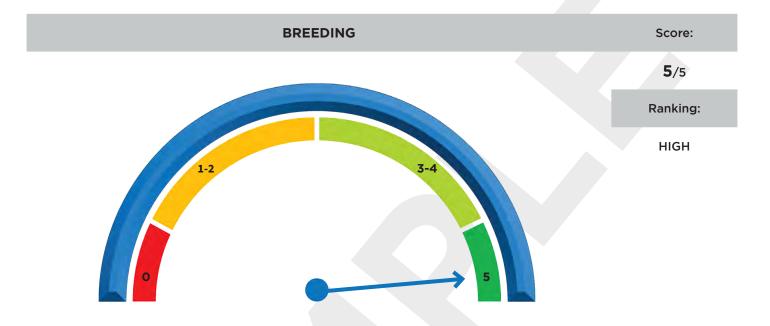
Commodities available are:

- Beef
- Cane
- Grain
- Sheep (meat)
- Sheep (wool)



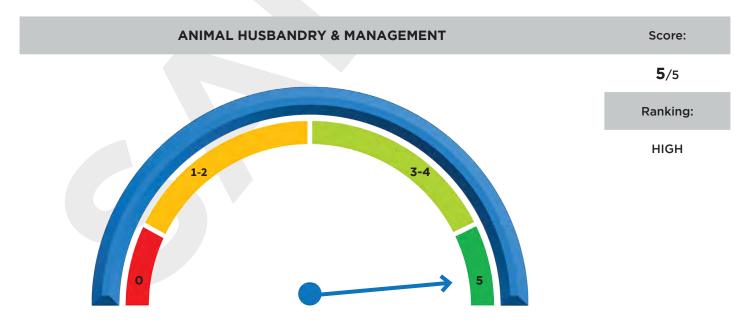
High Achievement 36/40 (90%)

BEEF RESULTS Seedstock Breeding **√** Feedlot Backgrounding 3,645 900 Total number of head Total grazed area (ha)



Comments:

Smaller bulls are used for the first mating with heifers to lower the risk of calving difficulties. Because of calving data collection cows are checked every day during calving. Stocking rates have been reduced resulting in higher growth and weaning weights.



Comments:

All breeders are preg tested and empties are culled. Bulls are semen tested prior to mating. All stock are recorded on a Gallagher TSI, Records of all treatments Including weights, traits and birth information are recorded.

GRAZING METHODS & MANAGEMENT

Score:

5/5

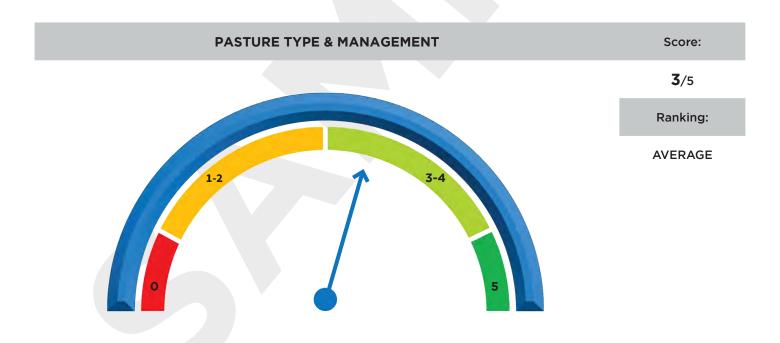
Ranking:

HIGH



Comments:

Different paddocks are used for breeding, calf data collection and growing cattle each year this is due to research requirements. As regrowth timber is increasing stocking numbers have been reduced to maintain adequate feed and ground cover



Comments:

Quadrats are cut at the change of each season and pasture is also monitored weekly. A large assortment of dung beetles live on the property.

PASTURE GROUNDCOVER MONITORING & MANAGEMENT

Score:

5/5

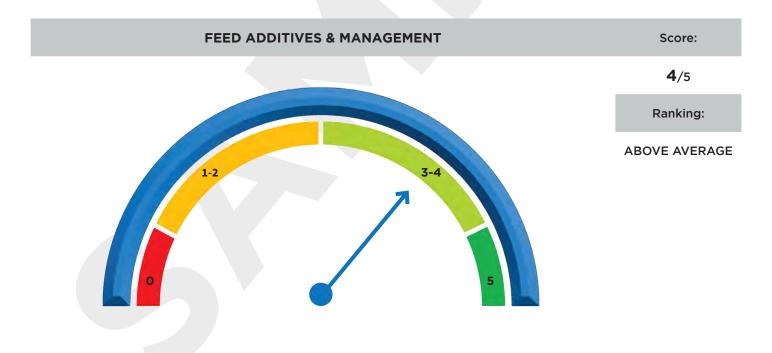
Ranking:

HIGH



Comments:

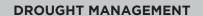
Quadrats are cut at the change of each season and pasture is also monitored weekly. CQU use satellites to monitor the property



Comments:

Cattle are given Anipro wet lick during drought.





Score:

4/5

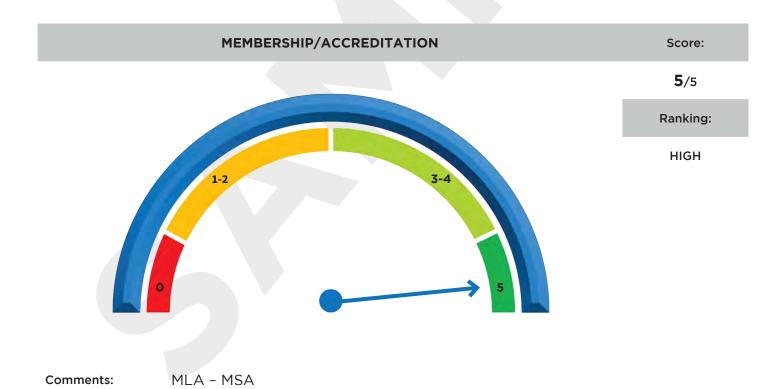
Ranking:

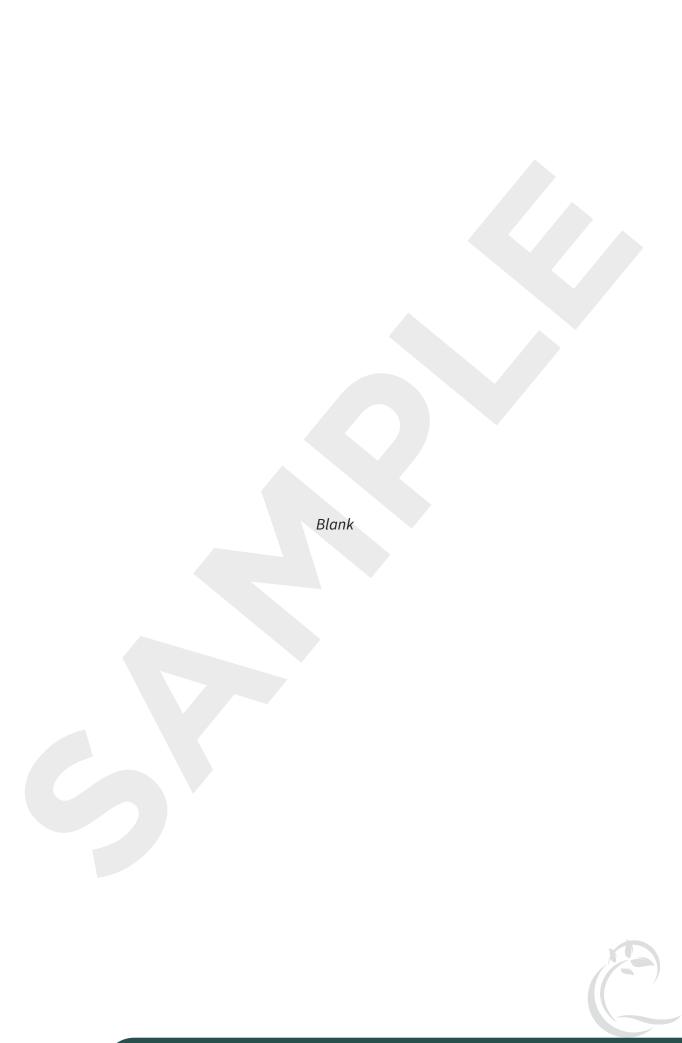
ABOVE AVERAGE



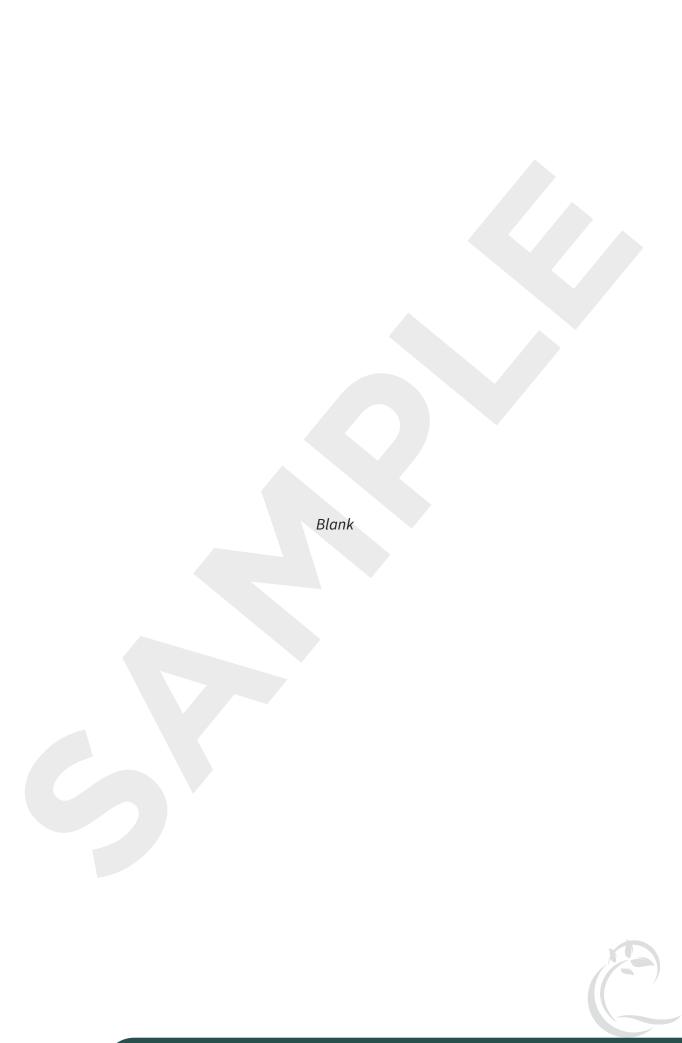
Comments:

Weaner bulls sent to feedlots.











www.agcare.org.au





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