### With thanks to





# Weka Farm Open Day Dairy Beef Integration

Landred Service of Street

16 April 2025

### Welcome to Weka - Dairy beef integration

10:05 amPāmu context Weka and West Coast LUCMark Leslie	09:45am	Guest arrival, biosecurity, sign in, coffees	
Weka and West Coast LUC Mark Leslie	10:00 am		Cam Walker Cougan Terry
Dairy beef challenges and opportunities	10:05 am	Weka and West Coast LUC	Mark Leslie Cam Walker

10:40am Split for three rotations OF 35 minutes each 10:40 - 11:15 - 11:50

Location	Торіс	Speaker
1	Genetics, LIC	Paul Charteris
2	Calf rearing at scale	Karen Fraser and Kim Hooper
3	Forage & feed Processing and markets	Cougan Terry, Dan Mears, Mark Burnside

#### 12:25pm Reconvene

	Wrap up and Q&A	Cam Walker
12:35pm	Lunch With thanks to Silver Fern Farms	
1:20pm	Close	



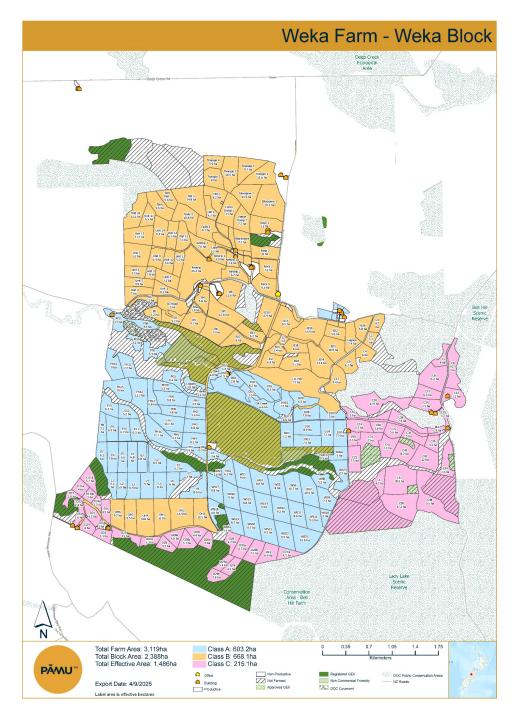
Your health and safety is important. Hi-Viz should be worn and sign in / out

### Please note the following hazards:

- Biosecurity
- Electric Fences
- Stock (unpredictable)
- Machinery please stay well clear
- Trip Hazards
- Zoonotic Diseases (wash hands)

Please help us keep farms free of pests, weeds, and disease, with clean footwear (foot baths at entrance)





#### Area

### Total Hectares = 3,119ha Effective Hectares = 1,670ha

- A Class 609ha
- B Class 709ha
- C Class 352ha

#### **Stock Mix**

250 MA Angus Breeding Cows

- + Finish All Progeny
  - 230 R1s (Incl. Heifers and Bulls)
  - 230 R2s (Incl. Heifers and Bulls)

12 MA Angus Sire Bulls 1,454 Dairy Beef

- 227 R2 Heifers
- 496 R2 Bulls
- 422 R1 Heifers
- 309 R1 Bulls

#### 800 Grazing Dairy Heifers

- 400 R1 Heifers
- 400 R2 Heifers

#### Personnel

Permanent Staff

- X1 Farm Manager
- X1 Stock Manager
- X1 Shepherd General

Seasonal Staff ~X6 Calf Rearers

#### **Dairy Beef Stock Policy**

Rearing 1,400 Dairy Beef Calves (From ~7 days to 100kgsLWT) Finish 800 Dairy Beef Heifers/ Bulls Sell 120 @ 100kgsLWT to Brunner Farm for Finishing 480 to @ 100kgsLWT to Cape Foulwind Farm for Finishing

#### **Calf Rearing Capacity**

Dairy Beef Shed (DBS) 1 & DBS 2

- 18 Pens Per Shed
- 20 Calves Per Pen
- 360 Calves Per Shed / Per Rotation
- 2 Full Rotation Per Shed Per Season (Aug – Nov)



# Pāmu dairy beef strategy



Goal: Utilise 100% of non-replacement dairy calves



# Pāmu Farms - Upper South Island

#### **115 Permanent Staff**

• 40 Seasonal Staff

#### **26 Business Units**

- 15 Dairy Farms
- 9 Livestock Farms
- 2 Machinery Syndicates

#### 5.1 Million Milk Solids

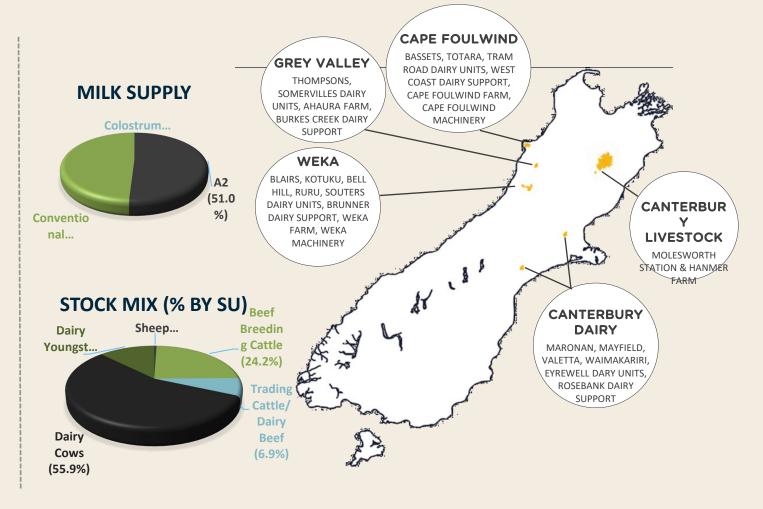
• 8 Farms Supplying A2 Milk

### 199,800 Stock Units

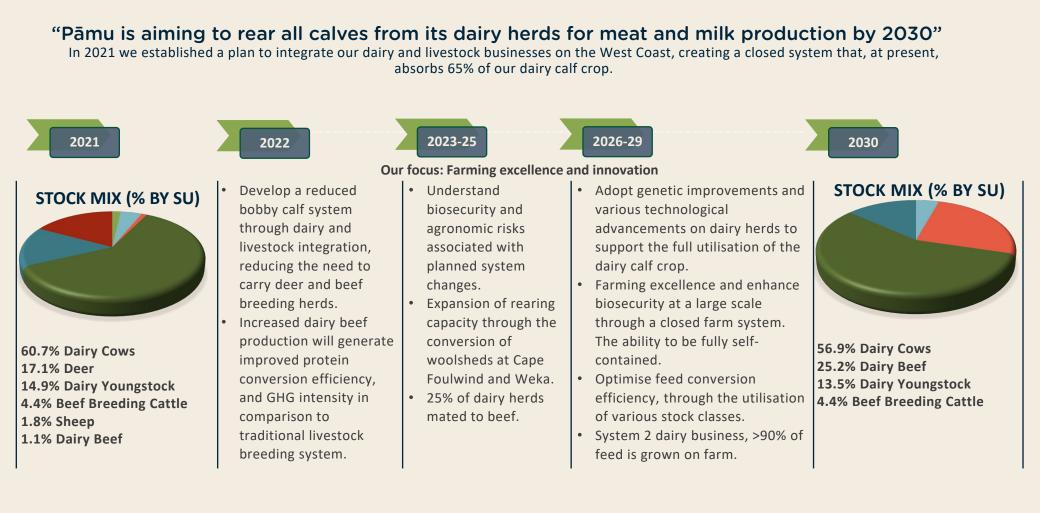
- 14,200 Dairy Cows Wintered
- 7,150 Dairy Young Stock
- 6,000 Beef Breeding Cows (Incl. Replacements)
- 8,000 Dairy Beef/ Trade Cattle

#### 16,950 Total Hectares (Excl. 181,200Ha @ Molesworth)

• 12,900 Effective Hectares

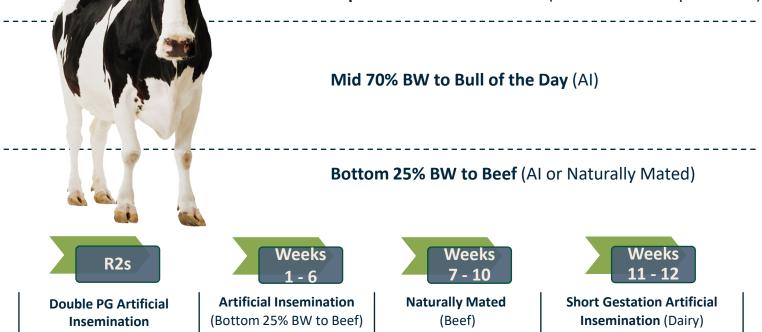


# Pāmu Farms - Upper South Island



# Top 5% BW to Sexed Semen (Selected from top 25% BW)

# **Mating Plan**



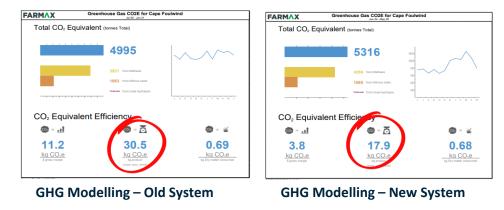


# **Opportunities**

Significant improvement in GHG Intensity per kilogram of product

A recent AgResearch lifecycle assessment of dairy-beef systems found that:

- Dairy-beef is 22% more efficient than traditional beef systems
- Fast-finishing prime dairy-beef systems can achieve 38% to 42% reductions in GHG intensity, thanks to a statistically significant relationship between GHG intensity, cattle age, and growth rate (efficient systems are a significant driver managing feed efficiency and finishing time in tandem is key).



- Increased kilograms of product produced per hectare
- Social licence to farm absorbing dairy calf crop
- Improved overall Herd Quality/Performance through breeding from highest Genetic Merit Cows
- Increased pasture production through improved rotational grazing policies
- Reduced capital requirement for waterway fencing (FWFP).

### Challenges

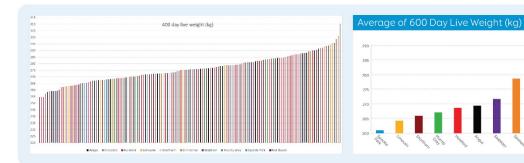
- Calf Rearing Infrastructure Requirements
- Biosecurity
  - Calf disease risk from multiple farms
- Increased Complexity on farm
  - Mating Plans
  - More mobs at calving/mating
  - Marker bulls
  - Identifying Beef Calves at Birth
  - Rearing Capacity on Farm
- Works space
- Fast finish model on marginal ground.

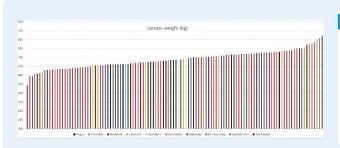


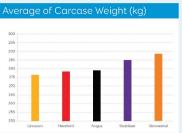
## Dairy Beef Progeny Test.

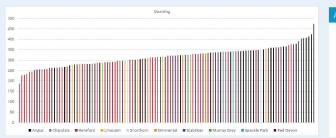
### Traits important to beef farmers















## Dairy Beef Progeny Test.

### Traits important to dairy farmers



Data analysed by the Animal Science Group, Massey University



# LIC & Dairy-Beef

### Next 10 years...

Technologies converge...Sexed dairy semen, wearables, SGL straws & specialist genetics for dairy-beef.

Drivers cannot be ignored...LIC straw trends, dairy-beef carbon efficiency, low carbon branded beef products, potential bobby calf shift, greater beef cattle finishing efficiency (Halter).

Already evolving mating plans...

Combining sexed semen for replacements, Beef straws from Day 1 of mating, SGL Dairy for days in milk and extended AB.

LIC investment...Genetics for the entire dairy-beef value chain, data systems, breed development, partnering for verified low carbon beef. Beef + SGL



GENETICS PANU ALIC

# Calf rearing at scale



### Challenges

- Cow Condition and Mineral Status Pre-Partum: Ensuring cows are in optimal condition and have the necessary minerals before calving.
- Calf Handling and Colostrum Day 1 Process: Proper handling of calves and ensuring they receive colostrum on the first day (5Q's of colostrum).
- Bacteria Loading in First 4 Days of Life: Maintaining hygiene to reduce bacterial exposure.
- Transitioning: Whole milk to CMR challenges
- **Relocation and Environmental Stressors**: Managing stress and inflammation during relocation.
- Infrastructure: Dealing with condensed calving periods and the need for adequate facilities.
- Hygiene and Biosecurity Risks: Protecting both calves and people from zoonotic diseases.
- **Retaining Good Staff**: Building passion and retaining skilled staff in the industry.

### **Solutions**

- **Team Development**: Providing training and support visits to offer fresh perspectives and improve skills.
- Infrastructure Changes: Utilising or modifying existing sheds to better suit current needs.
- Evolving Programs and Nutrition: Adapting programs and nutrition plans to meet Westcoast challenges.
- **Proactive Animal Husbandry**: Developing teams with strong animal husbandry skills for a proactive approach.
- Encouraging Lifelong Learning: Promoting continuous learning among team members.
- Enhanced Biosecurity: Strengthening biosecurity measures with a focus on hygiene.

# COLOSTRUM MANAGEMENT



Use AHD tincture 8% iodine for navels. Using the more concentrated iodine helps dry out and protect the calf navel. One spray at time of pick up and one at drop off. Make sure that the navel is sprayed at the base of the navel.

- First feed first milking colostrum 2-4 litres or 10-15% of body weight within the first 6-12 hrs of being born. This
  will depend on the quality of the colostrum to the volume that is needed.
- · Rule of thumb: let them drink as much as they will drink at first 2 feeds.
- · Twice a day pick up for optimising calf health.
- A good colostrum keeper for transition milk (2nd -8th day milking) storage to help keep bad bacteria at bay is Nutricare Colostrum Keeper additive that acidifies the milk. 2kg will do 2000L. Do not stir too much. Add to fresh colostrum daily before adding to buik storage supply.

#### The 5 Q's of Colostrum Management

Quality	Ality Check IgG (Immunoglobulin) rating. If using a Refractometer, a minimum reading of 22 brix is good quality. Colostrum quality is better when calves are picked up twice a day. You can bump up quality by adding colostrum powder. 22 brix = 50g IgG per litre and calves need a minimum of 100g IgG on day 1 of life.	
Quantity	<ul> <li>10% of birth weight. A higher volume needed if colostrum is of a poorer quality (up to 15%)</li> <li>-this can be fed over a 12-hour period. Freeze in 2 litre amounts any great quality colostrum to keep for the days when quality is not ideal or for calves later in the season.</li> </ul>	
Quickly	Quickly Goal within the first 1-2 hours of birth ideally, or within the first 6-12 hours. After 24 hours a passive transfer cannot happen, however the gut lining is still being protected by colostrum and is still helpful so feed for as long as there is "free" supply of colostrum available.	
sQueaky Clean	hartested colorianter day i cartes and chin anabed coloriant here. Den ricate integra	
Quietly	A harassed or stressed calf will not divert IgG across the gut wall as effectively and will expose calf to a weakened immune defence. Always handle calves quietly and gently, even at pick up. Get the whole farm team on board. Rough handling and stressed calves = no passive transfer.	

Monitor passive transfer. Test IgG blood between day 4-7 to check day 1 process. Calves with failure of passive transfer are forced to divert nutrients from growth to building an immune response and are more likely to get sick in the first 2 weeks.







# STRESS AND FATIGUE



### IMPACT ON PERFORMANCE

Cumulative stress Stress = Distress Link to proactive measures

### **CALVES VUNERABILITY**

Barrage of stressors Weakened immune system Disrupt digestion Decrease weight gain More susceptible

### **CALVES VUNERABILITY**

Well-managed environment Proper nutrition Low-stress environment Minimising abrupt changes Rehydration to expedite recovery

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# IGNORANCE



### NORMALIZATION OF ABNORMALITY

Lack of awareness or training Accept suboptimal conditions Perpetuate year-to-year

### **ADDRESSING IGNORANCE**

Exposure or confusion Upskill the entire team Consistent practises KISS

### **AVOIDING OVERCOMPLICATION**

Over complicate issues Feel good factors Prioritising & excelling in basics



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Farmlands



# **PROACTIVE PRACTICES**

Proactivity is paramount Swift identification Mental well-being

### **OBSERVATION TECHNIQUES**

Observe calf behaviour Utilising all senses Recognising abnormal signs early Rapid intervention

### **ENVIRONMENTAL FACTORS**

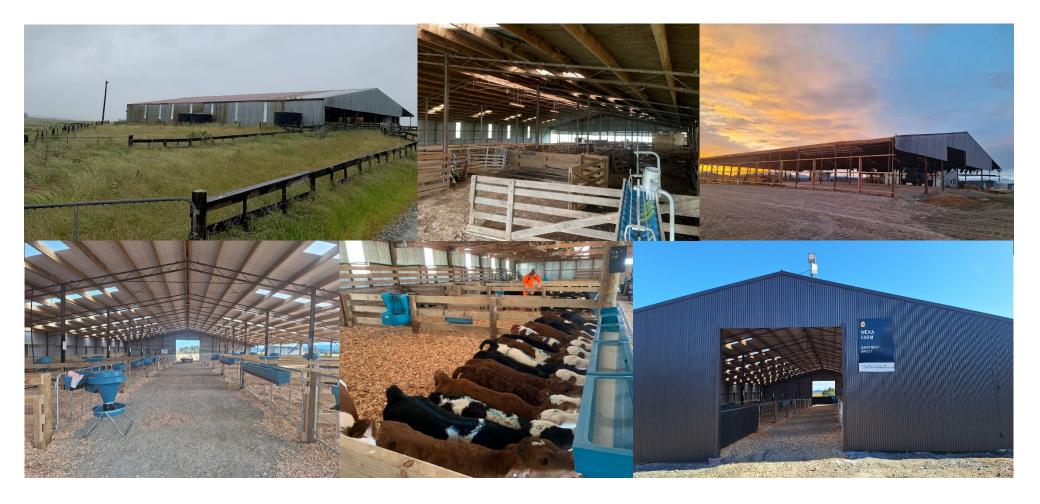
Monitor environment Hygiene, clean and comfortable Act immediately



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# Repurposing old woolsheds / covered yards (DBS1)



# Repurposing old woolsheds / covered yards (DBS2)



# **100kgs to Finishing**

### **Focus Areas**

- Weaning upon weights not age (start weaning >75kgs, 95 off meal ~30 days later)
- Regular monitoring of weights, attention to detail, drafting mobs into weight lines
- Rotationally graze behind a break feed from 100kgs/ fully weaned minimum 2 day breaks
- Animal Health plans / active management parasites, immunity, trace elements
- Animal welfare needs shade, shelter, handling

### Nutritional requirements

- High ME feed All pasture based up to 450kgs then winter on swedes + silage
- Agronomy Annual regrassing program (8-10% Class A) to ensure high quality pastures
- High energy supplements
- Potable water



# **100kgs to Finishing**

### Targets

- 200kgs by 1<sup>st</sup> June (1<sup>st</sup> Winter)
- 450kgs by 1<sup>st</sup> June (2<sup>nd</sup> Winter)
- 550kg LWT Bulls to Finish >270kgCW by ~24-26 months old (>49% Yield)
- 500kg LWT Heifers to Finish in the Reserve Program
   >240kgCW by ~24-26 months old (>49% Yield)

### Challenges

- Utilisation across all land classes
- Infrastructure power, water, yards
- Biosecurity calf rearing
- Immunocompromising calf rearing challenges/ disease burden continue to rear its head over their life span
- Wastage
- Return (\$)
  - >270kg CW Bulls
  - >240kg CW Heifers (Reserve Program)
- Markets



# Pāmu overview

112 Total number of farms managed by Pāmu

356,048<sup>\*</sup>

1,255,619

Stock units

630 Employees



As at 30 June 2024