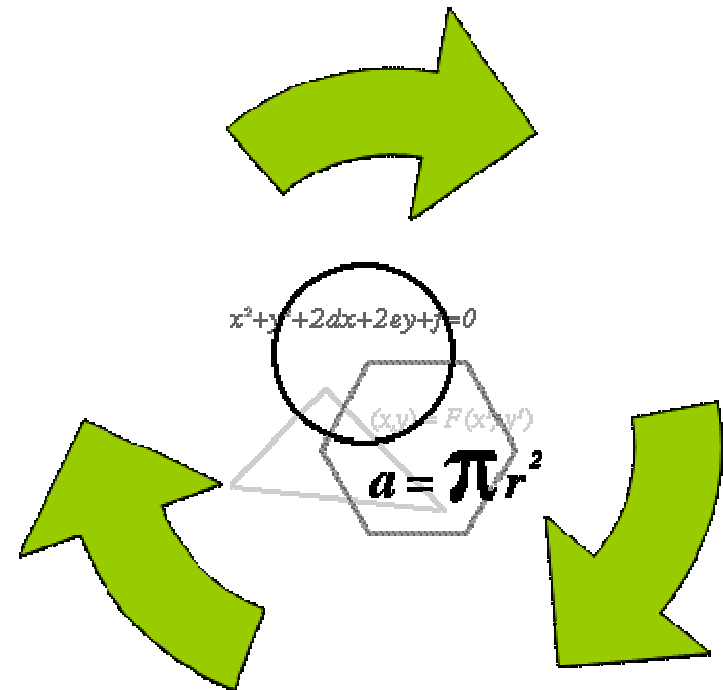


LINKING ON-FARM GRADING TO IN-PLANT PROCESSING

SHANE LEATH
MICHELLE CHALLIES
KEVIN TAUKIRI



DAIRY EXPERIENCES TO MEAT PLANTS

On-Farming Grading

Body Condition Scoring - Cull Cows

Ultrasound - Prime Beef

DAIRY BODY COMPOSITION (BCS)

Condition Scoring Important:

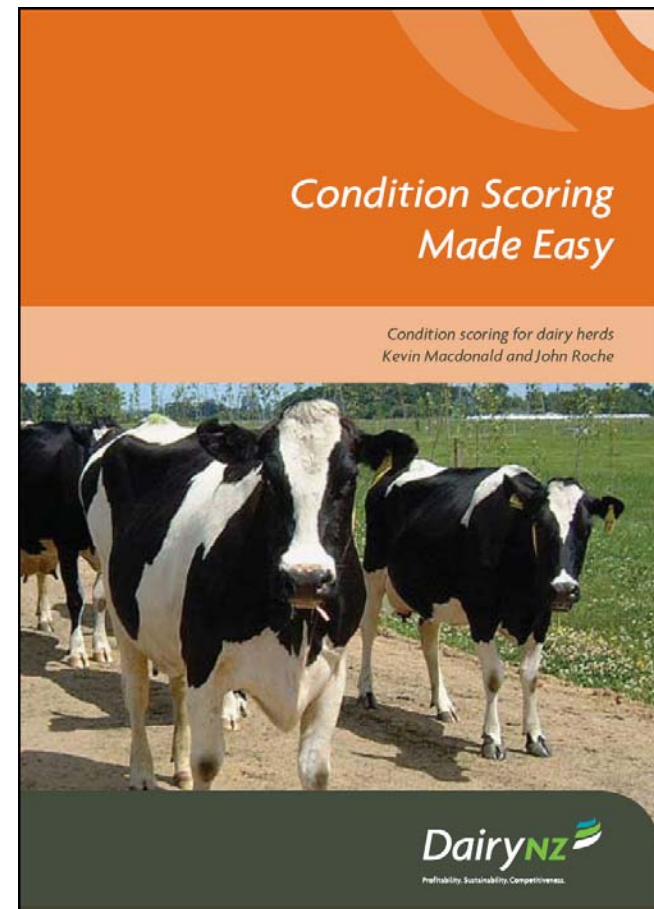
- Fertility
- Milk Production
- Future Feed Needs
- Health Status
- Animal Welfare

Stored Energy (as muscle and fat)

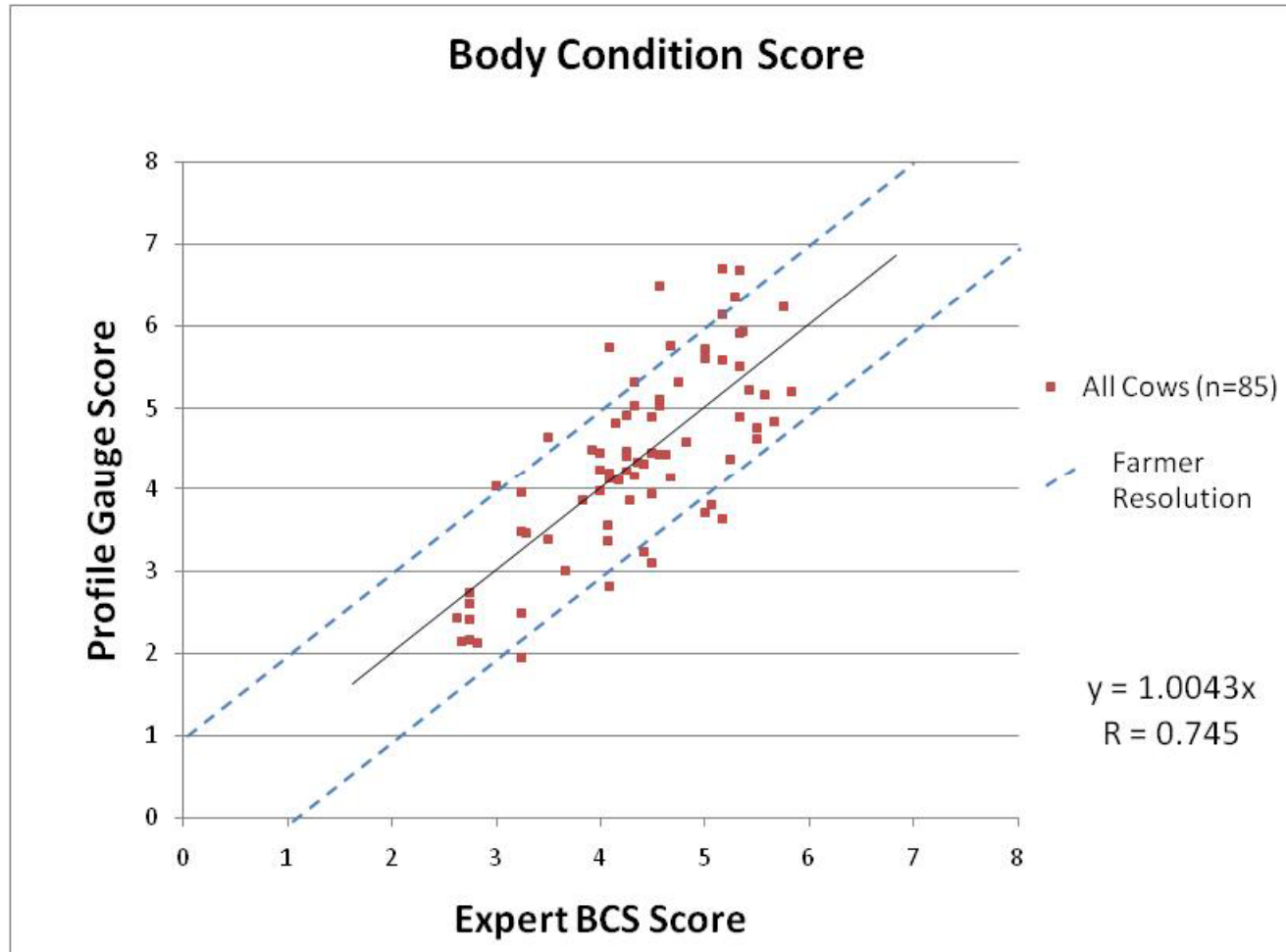
- Composition ... not Weight

Issues

- Seven subjective measures
- Grades from 1-7
- Experts ± 0.5 (2 in Dexcel)
- Farmers ± 1



OBJECTIVE BCS (WITH LOW-TECH TOOLS)



Method

Profile Gauge

Measured

Shoulder Notch

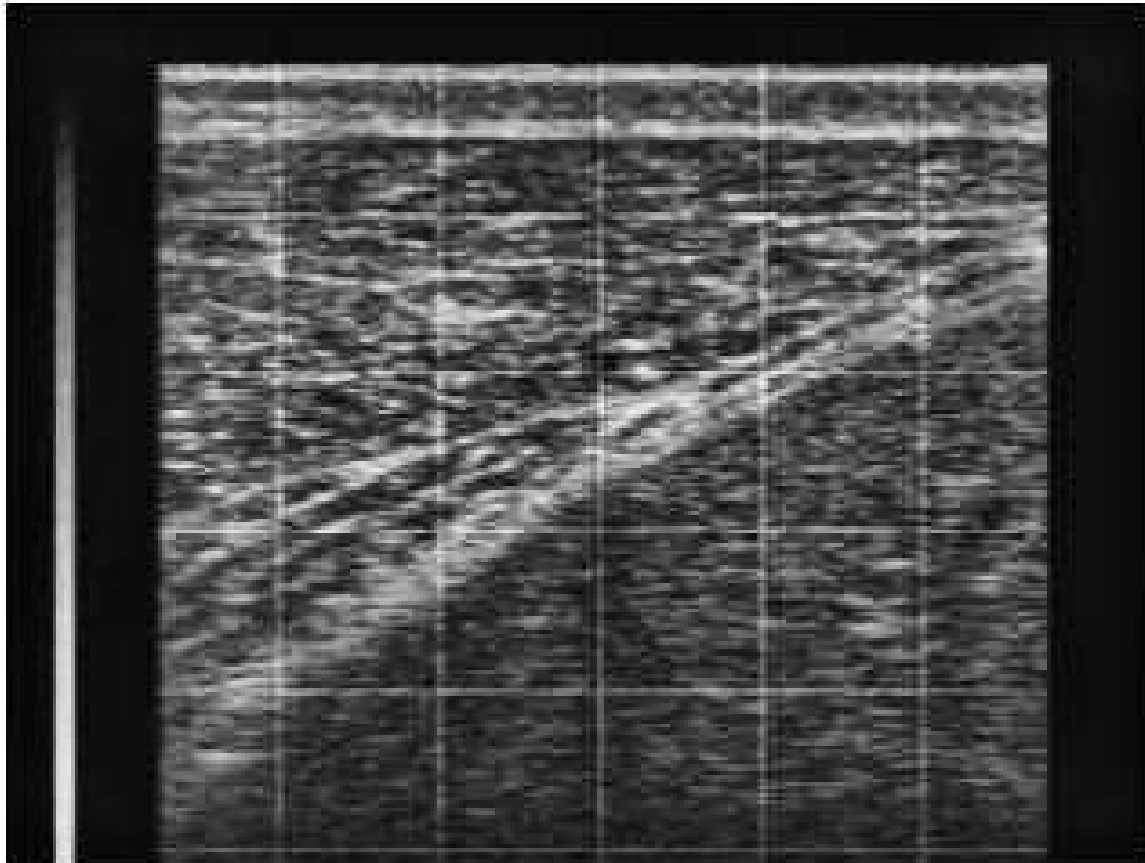
Tail-Pin Depth

OPPORTUNITY?

Cull Cows - Pre-plant assessment

- Should we include BCS on payment schedule
 - * Buy meat and fat rather than bones
- Could we use BCS to predict Yield
 - * Dairy genetics “reasonably” consistent bone structure
- If assume 800,000 dairy culls + 200,000 beef culls and we get BCS up 0.5 on animals entering plants
 - * What is 1% yield increase worth to industry?
 - * And on same stock numbers
 - * Feed over winter? Feed over summer?

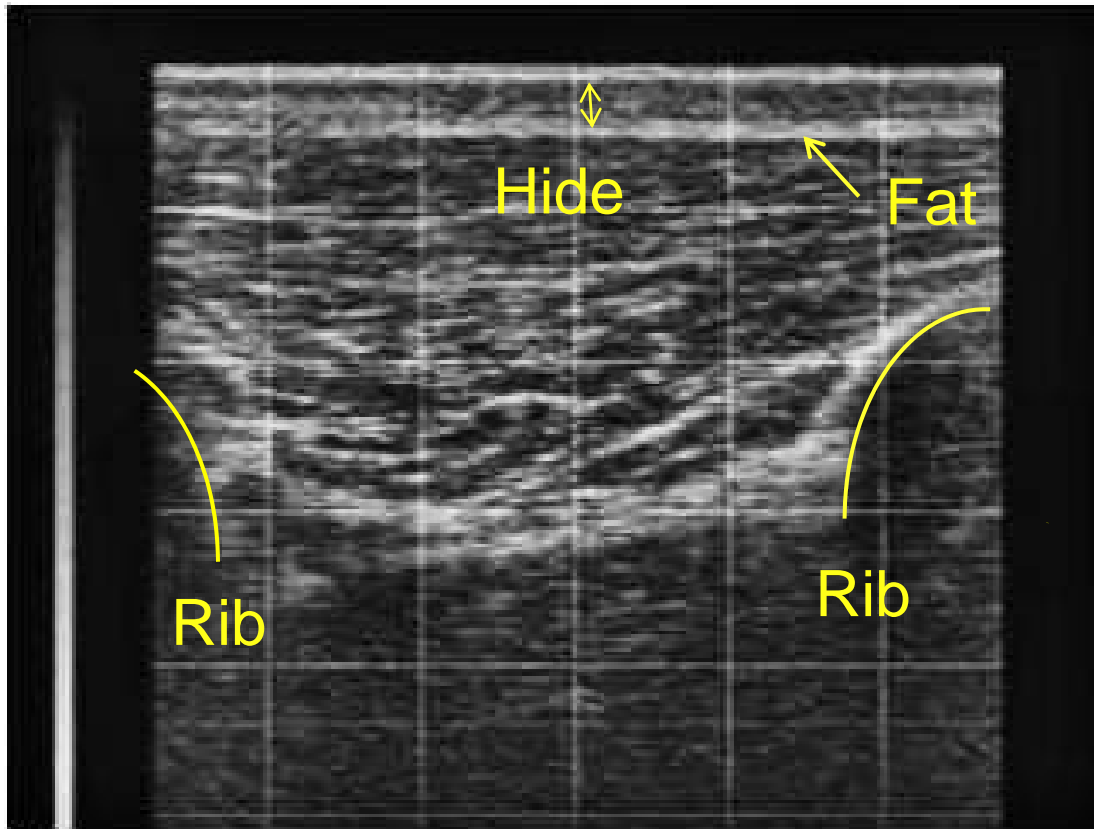
ULTRASOUND SCANNING



Eye Muscle
Hips & Pins
Ribs
Udders

- Milk flow (real time)
- Scars
- Mastitis (infection)
- Muscle seams
- BCS
- Fat

ULTRASOUND SCANNING



OPPORTUNITY?

Streaming Prime – On farm

Is there value in streaming stock for:

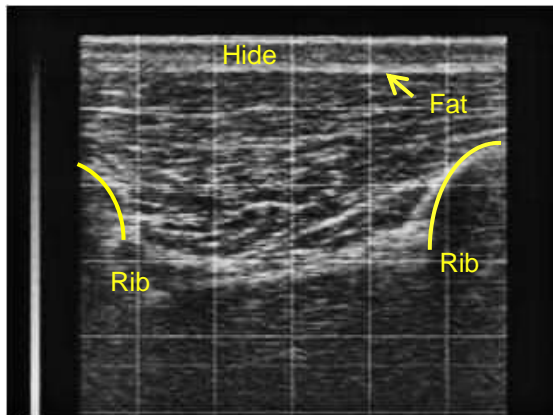
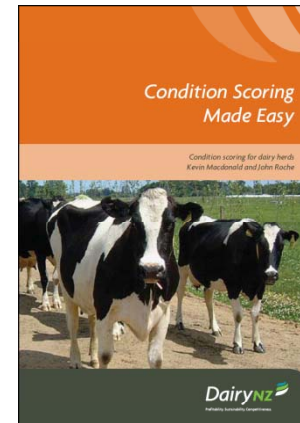
- Stream for Marbling
- Stream for Fat Cover
- Stream for Muscle Conformation
- Dairy Beef Composition

* Handling Issues (but only need contact for 10s)

DISCUSSION

Cull Cows - pre-plant

- Should we include BCS on payment schedule
 - * Buy meat and fat rather than bones
- Could we use BCS to predict Yield
 - * Dairy genetics “reasonably” consistent bone structure
- If assume 800,000 dairy culls + 200,000 beef culls
 - * What is 1% yield increase worth to industry?
 - * Feed over winter?



Prime – on farm

Is there value in streaming stock for:

- Marbling
- Fat Cover
- Muscle Conformation
- * Handling Issues