MEAT & LIVESTOCK AUSTRALIA

meatup FORUM

For the latest in red meat R&D

Using processor carcase feedback for better on-farm decisions

Elke Hocking, Elke Hocking Consulting

ALMTech

DATA – INFORMATION - DECISIONS

DATA (Feedback)

- What data is available from where?

INFORMATION (Feedback analysis)

- What information can we extract from it?

DECISIONS (On-farm)

- What decisions can be made on-farm to improve compliance, efficiency and profit?

Australian Government
Department of Agriculture

ALMTech

Advanced Livestock Measurement Technologies project

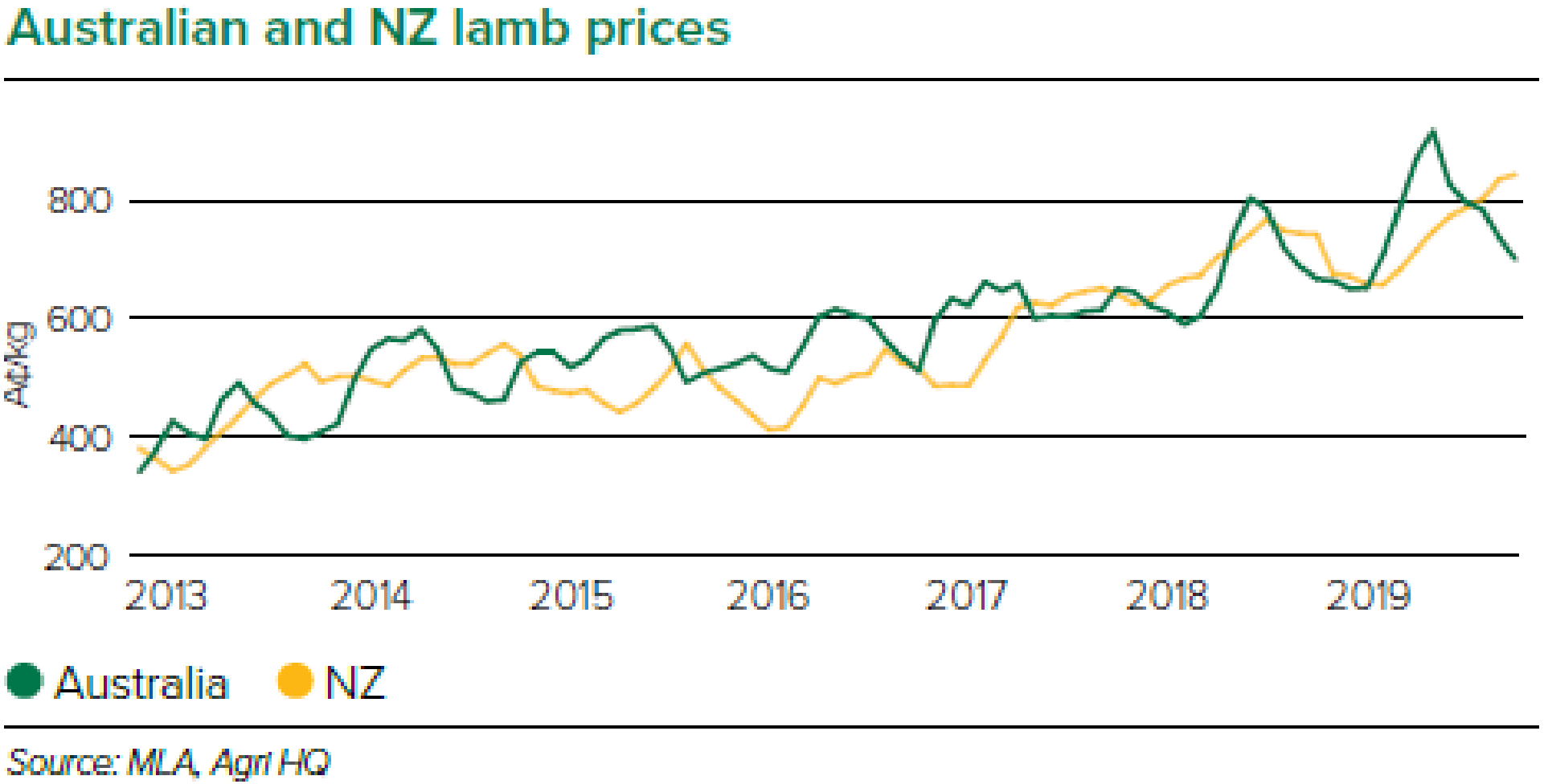
MLA
Pasture Ruler
Pasture Height to
Pasture Quantity Indicator
mla
14
3000
12
2500
10
2200
8
1900
7
1700
6
1600
1400
1200
1000
700

WELLS
LONG
VEHICLE

She should have cooked Lamb!

MOTOR
TEAM

SA Lamb 2002 ($3.00/kg cwt)



Grid not an accurate reflection of the customer

Only 10% will hit 'sweet spot'

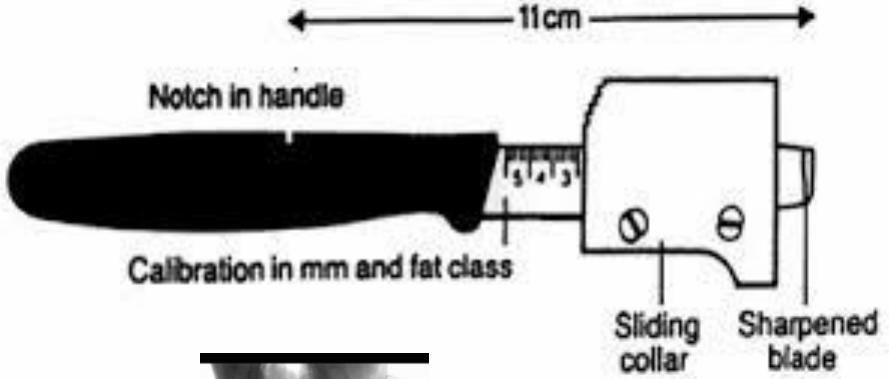
Grade	Fat Scr	Teeth	Price										
New Season Lambs			**8.0-**	**8.0+**	**12.0+**	**16.0+**	**18.0+**	**20.0+**	**22.0+**	**24.0+**	**26.0+**	**30.0+**	**32.0+**
N1	1	Milk	0.30	1.50	1.90	4.30	4.70	4.70	4.70	4.70	4.70	4.70	4.20
N2	2	Milk	0.30	1.80	2.20	4.60	5.00	5.00	5.00	5.00	5.00	5.00	4.50
N3/N4	3-4	Milk	0.30	1.80	2.20	4.60	5.00	5.00	5.00	5.00	5.00	5.00	4.50
N5	5	Milk	0.30	1.80	2.20	4.60	5.00	5.00	5.00	5.00	5.00	5.00	4.50

Lack of accurate measurements of carcase fat

Fat scoring in plant

- Mostly by ‘palpation’, similar to live fat scoring

- Can be with a GR knife (more accurate)



- New technologies – DEXA

Future Carcase Value

Carcase value ($) = Carcase Wt X Lean Meat Yield X Eating Quality

Need to be able measure these!

THE VEWE

Why is lean meat yield important?

Score 4

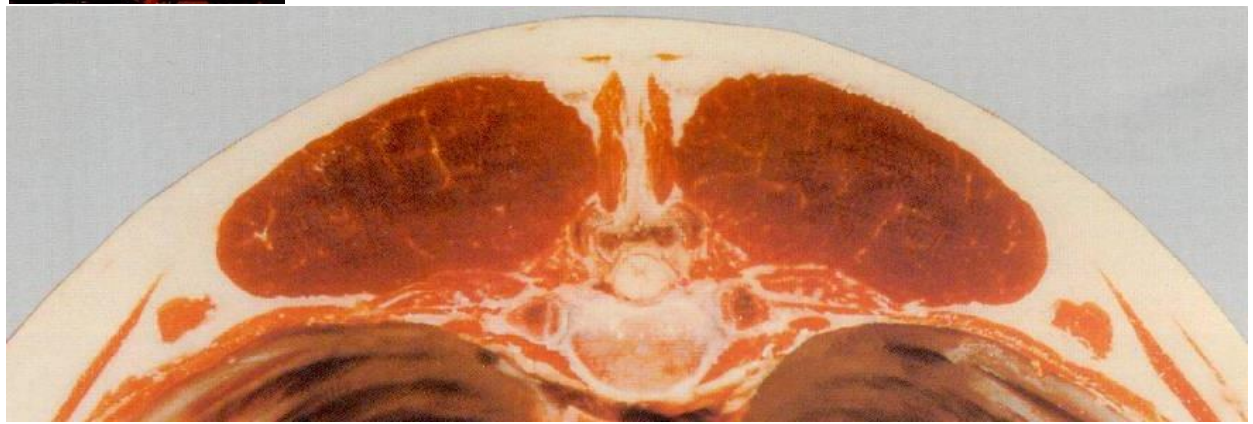
Carcase Wt. 23.0 kg

GR 20.0 mm

Score 2

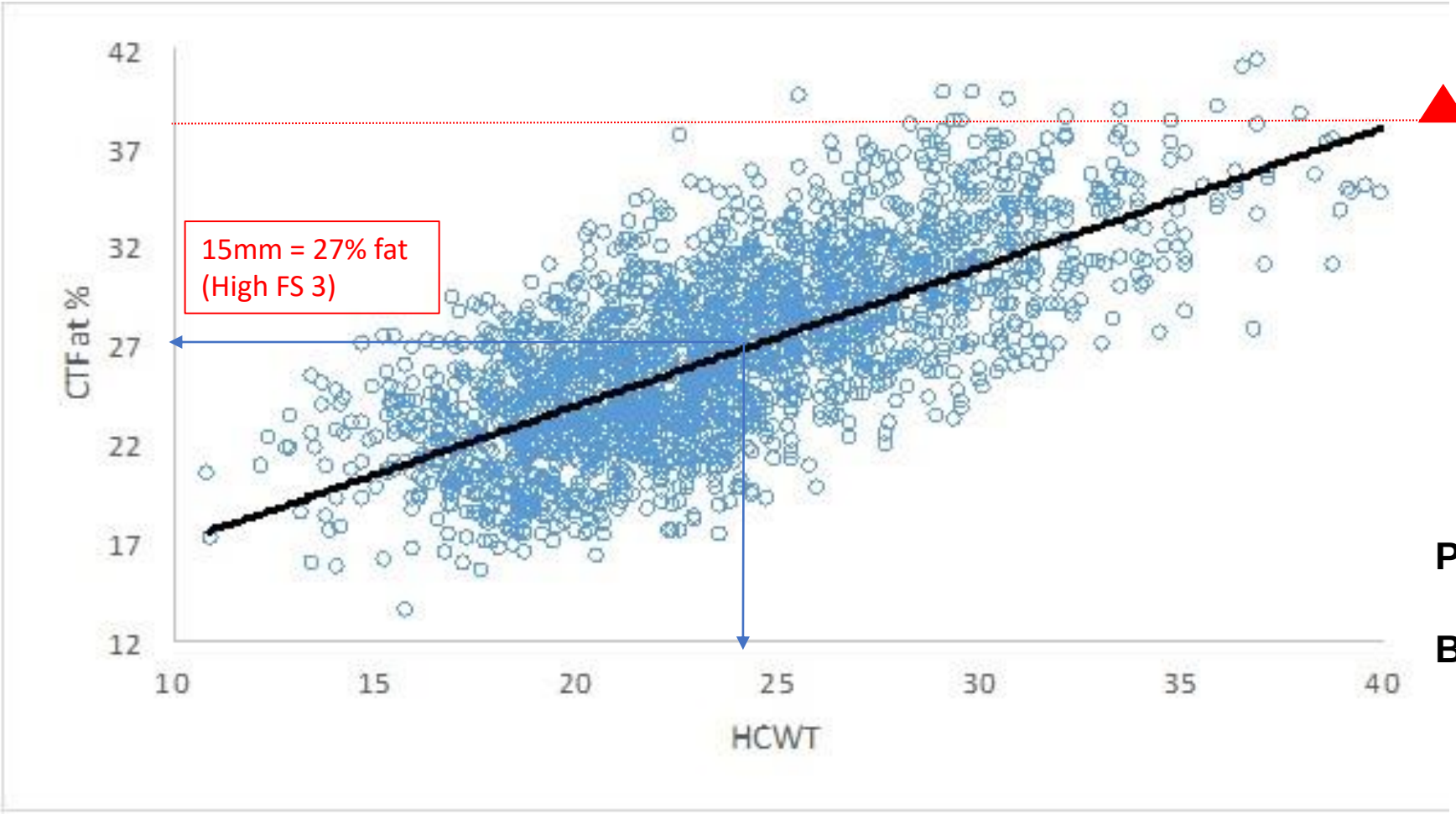
Carcase Wt. 23.6 kg

GR 10.0 mm



Score 4
Fat: 6.87kg (30% fat)
Saleable Meat: 10.34kg
(46% LMY)
Retail Value: $207
Round
Rump
Lean Trim
Saleable Meat 10.34 kgs
LAMB B
Cold Carcase Weight 23.0 kg
GR 20.0 mm
Fat Score 4
Lean Meat Yield 46.2%
Retail Cut Kgs Price Value
Rib Eye Roll .961 12.99 $12.48
B'less Shoulder 1.864 10.99 $20.49
Foreshank .371 7.49 $ 2.78
8-Rib Rack .788 25.99 $20.48
Eye of Loin .525 24.99 $13.12
Tenderloin .122 24.99 $ 3.05
Topside 1.188 14.99 $17.81
Silverside .753 12.99 $ 9.78
Round .804 15.99 $ 2.86
Rump .463 16.99 $ 7.87
Hindshank .541 7.49 $ 4.05
Lean Trim 2.571 7.49 $19.26
10.951 $144.02
Bone 5.152 NCV nil
Fat 6.869 NCV nil
22.97 kgs $144.02
Score 2
Fat: 4.68kg (20% fat)
Saleable Meat: 13.08kg
(56% LMY)
Retail Value: $262
Hindshank
Round
Rump
Saleable Meat 13.08 kgs
LAMB A
Cold Carcase Weight 23.6 kg
GR 10.0 mm
Fat Score 2
Lean Meat Yield 50.0%
Retail Cut Kgs Price Value
Rib Eye Roll 1.123 12.99 $14.59
B'less Shoulder 2.442 10.99 $26.84
Foreshank .502 7.49 $ 3.76
8-Rib Rack .896 25.99 $23.29
Eye of Loin .694 24.99 $17.34
Tenderloin .156 24.99 $ 3.90
Topside 1.326 14.99 $19.88
Silverside .799 12.99 $10.38
Round .931 15.99 $14.89
Rump .530 16.99 $ 9.00
Hindshank .606 7.49 $ 4.54
Lean Trim 3.290 7.49 $24.64
13.295 $173.04
Bone 5.584 NCV nil
Fat 4.683 NCV nil
23.56 kgs $173.04

There's a lot of fat in a heavy 'fat lamb' = Inefficient



Processors prefer 20-27% (FS 3)

Bone-out time compared to 23kg FS3

- FS5 = +20%

- 30 Kg FS5 = +40%

Feed Conversion Efficiency (FCE)

- Fatter animals = lower FCE
- Takes more feed to put on fat than muscle

Fatter animal

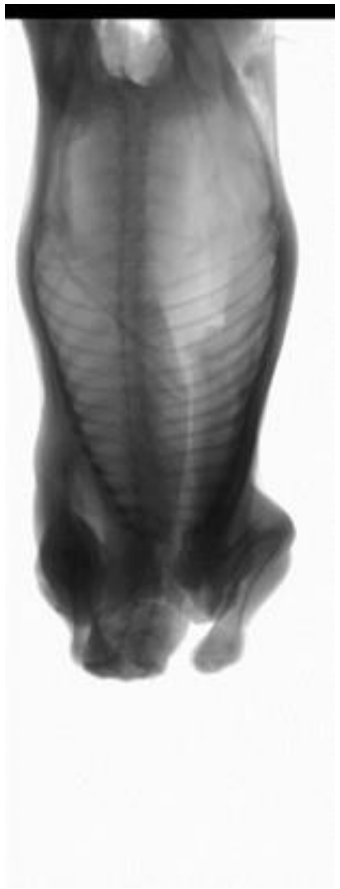
= lo

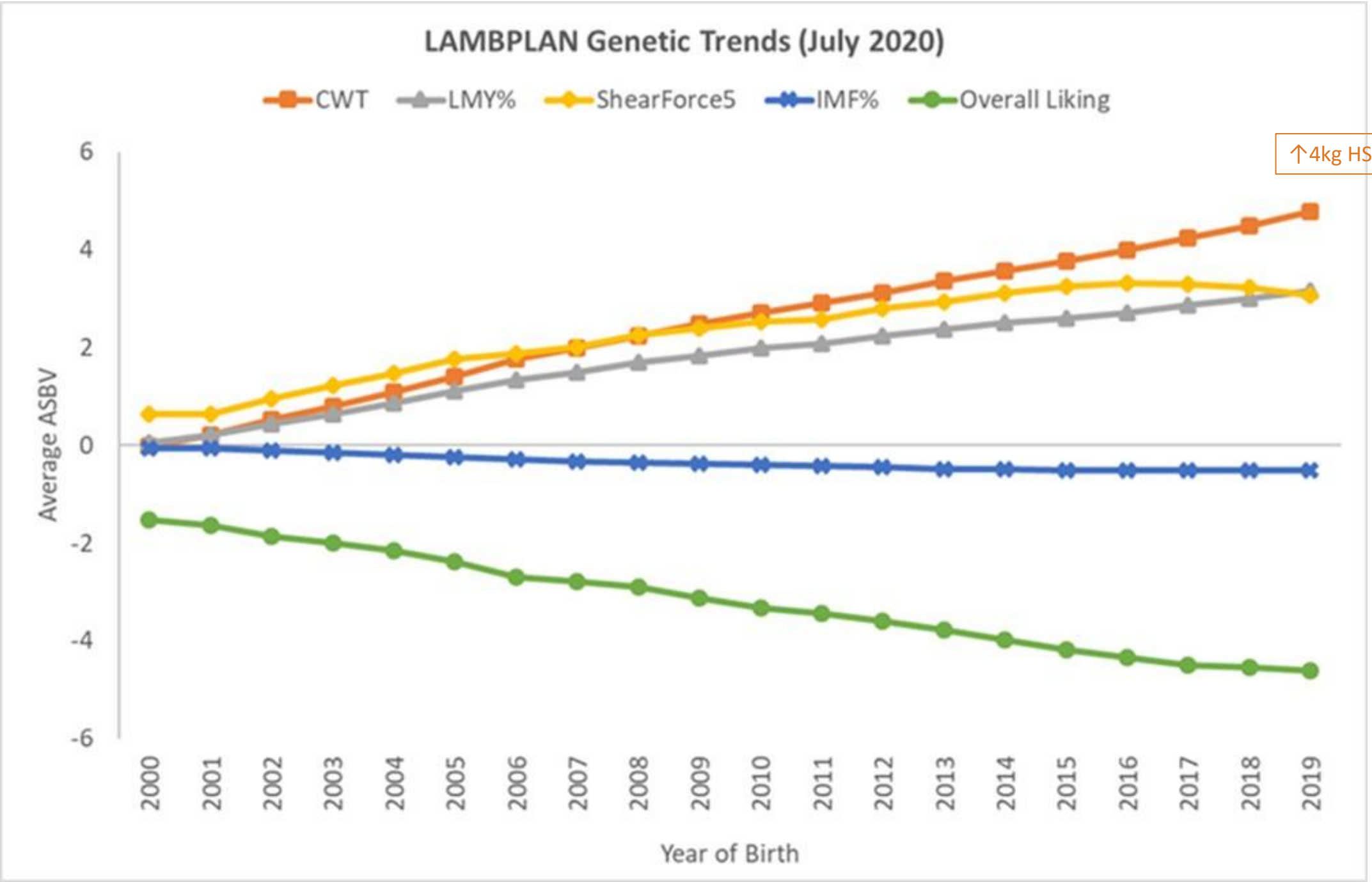
=

rec

4x more feed to put on 1kg fat compared to 1kg muscle

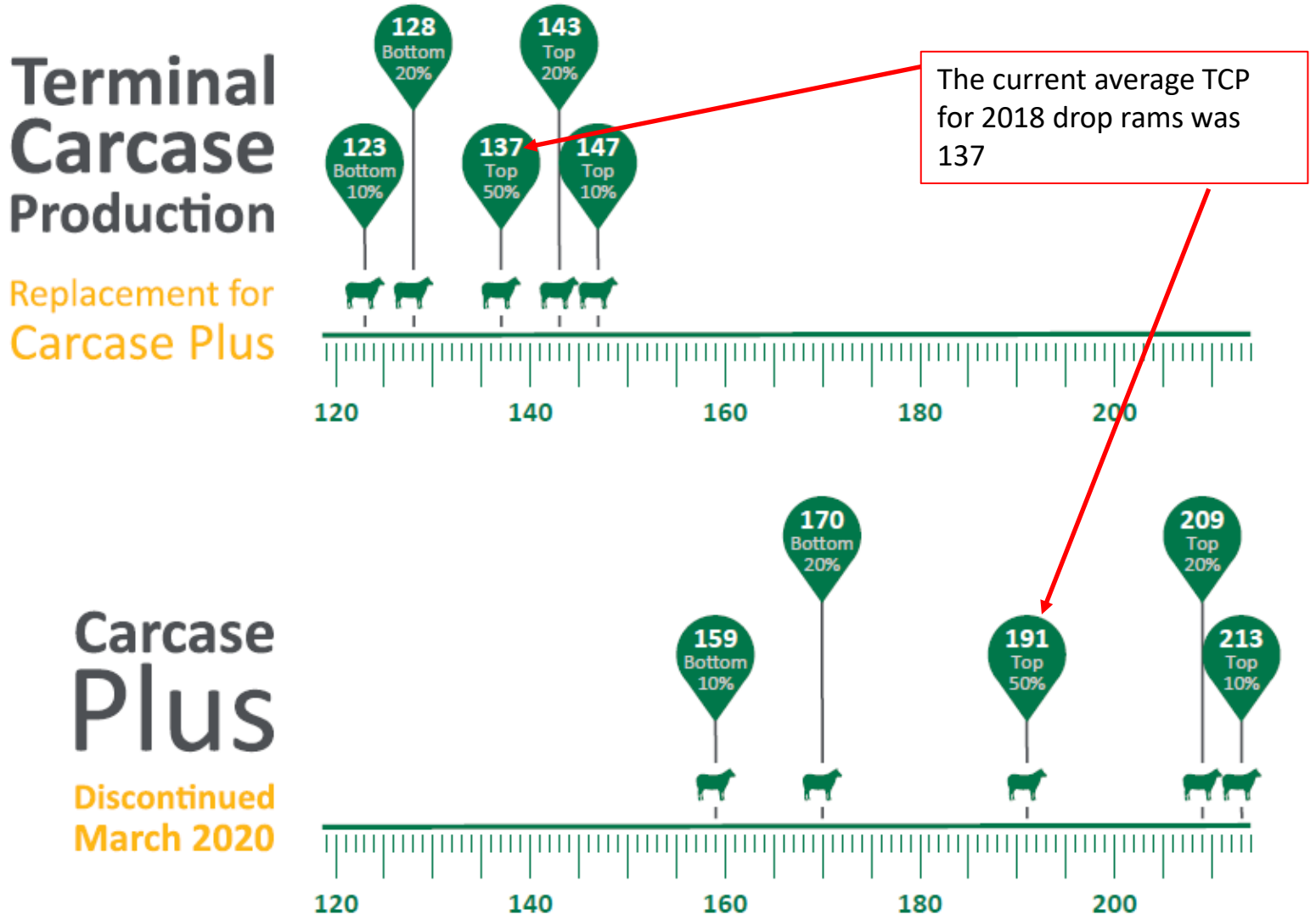
Objective carcase measurement of LMY




LAMBPLAN Genetic Trends (July 2020)
CWT
LMY%
ShearForce5
IMF%
Overall Liking
Average ASBV
6
4
2
0
-2
-4
-6
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
Year of Birth

↑4kg HSCW

TCP vs Carcase Plus Index



Objective carcase measurement of Eating Quality (EQ)

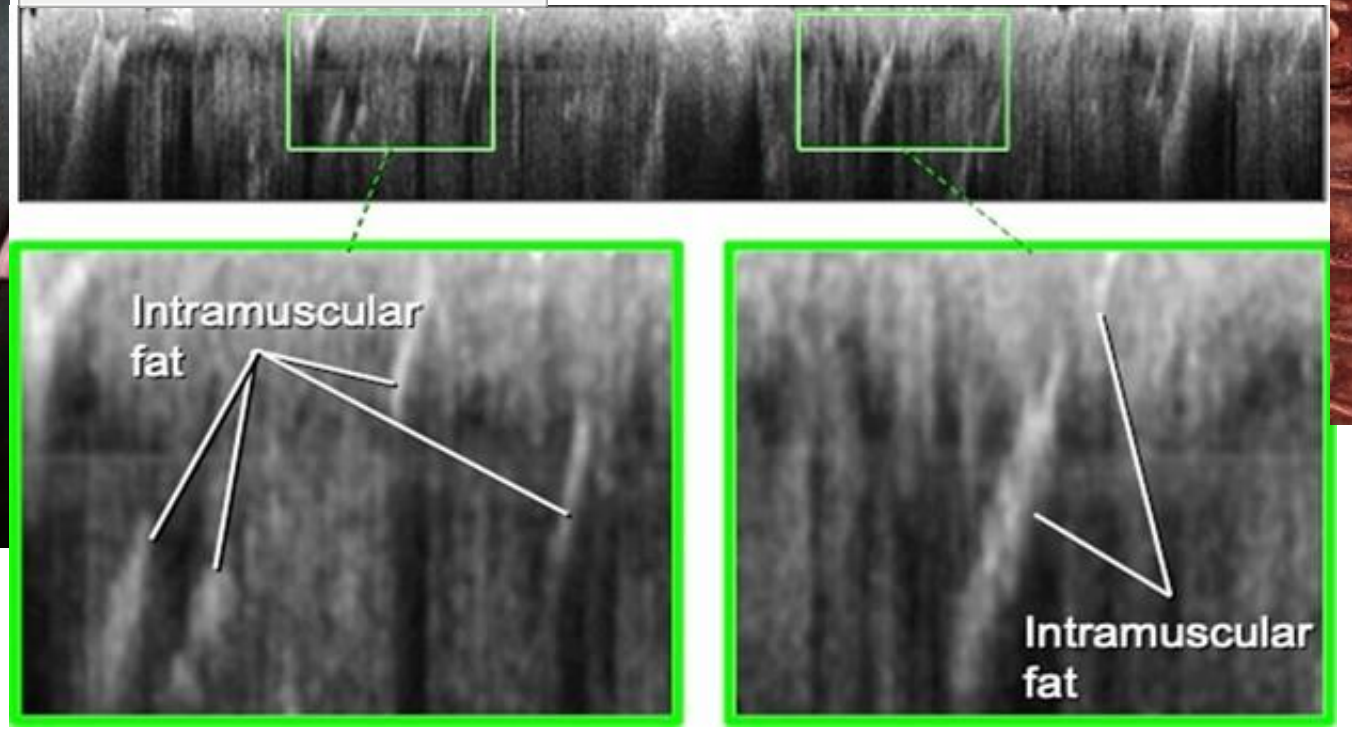
EQ = tenderness + juiciness + flavour

EQ = higher IMF%

LAMB

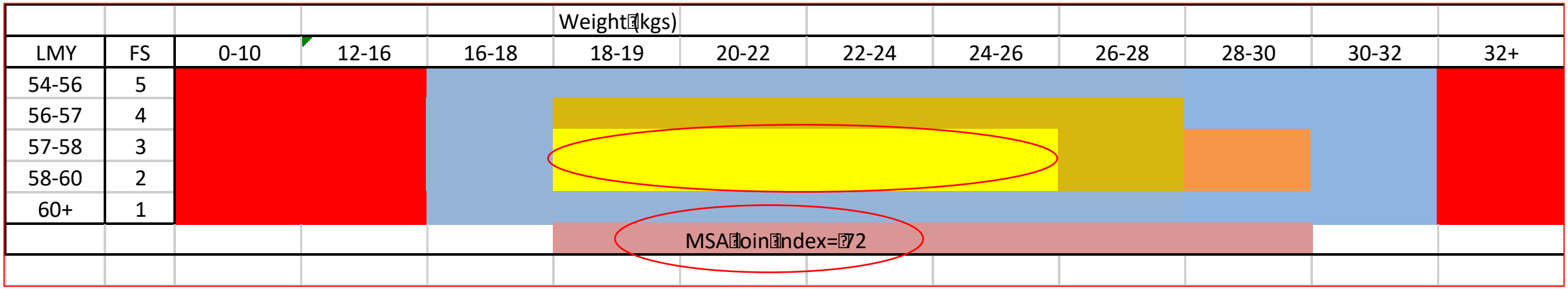
4.2% = current IMF%

> 5% = premium EQ



What might future grids look like?

Will include weight.
Will include LMY
Will include EQ index
Possibly compliance bonus



The market sweet spot
(18 – 26kg FS 2,3)
4* or above loin (0% failure rate !)

Meat The Market

Lamb compliance workshop

Developed in association with Sheep CRC, MLA, JBS and GMP

Key Learning Outcomes: assist producers improve compliance for carcase weight and LMY, whilst maintaining or improving meat eating quality.

- Mix of theory, on-line & hands-on learning (processing plant and on-farm)

- Delivered through supply/value chains with OCM systems
    - Piloted to 2 JBS groups in Bordertown SA (Feb 2019 – July 2019)
    - 1 group Gundagai Meat Processors (July 2019 – 2020)

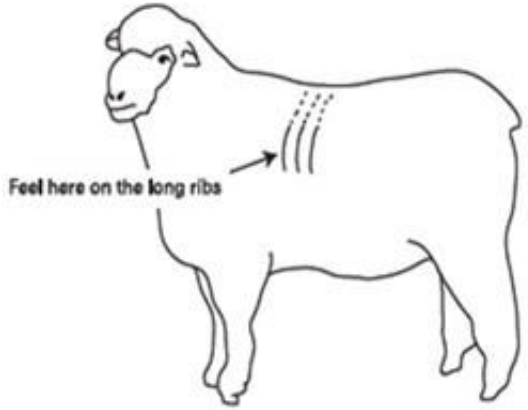
Processor relationships

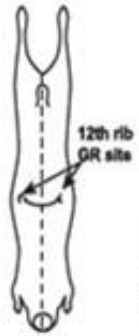
Australian Owned

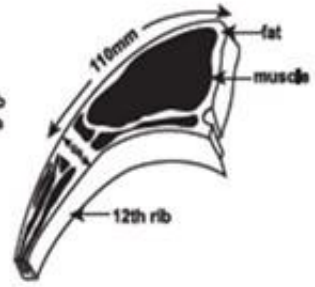
GUND AGAI LAMB

Australian Made

Skill development: live animal assessment







Methods to analyse feedback – Livestock Data Link

Solutions to non-compliance:
Genetics, nutrition, management, animal health

Tools to assess carcase feedback - Livestock Data Link

LIVESTOCK DATA LINK

MEAT & LIVESTOCK AUSTRALIA

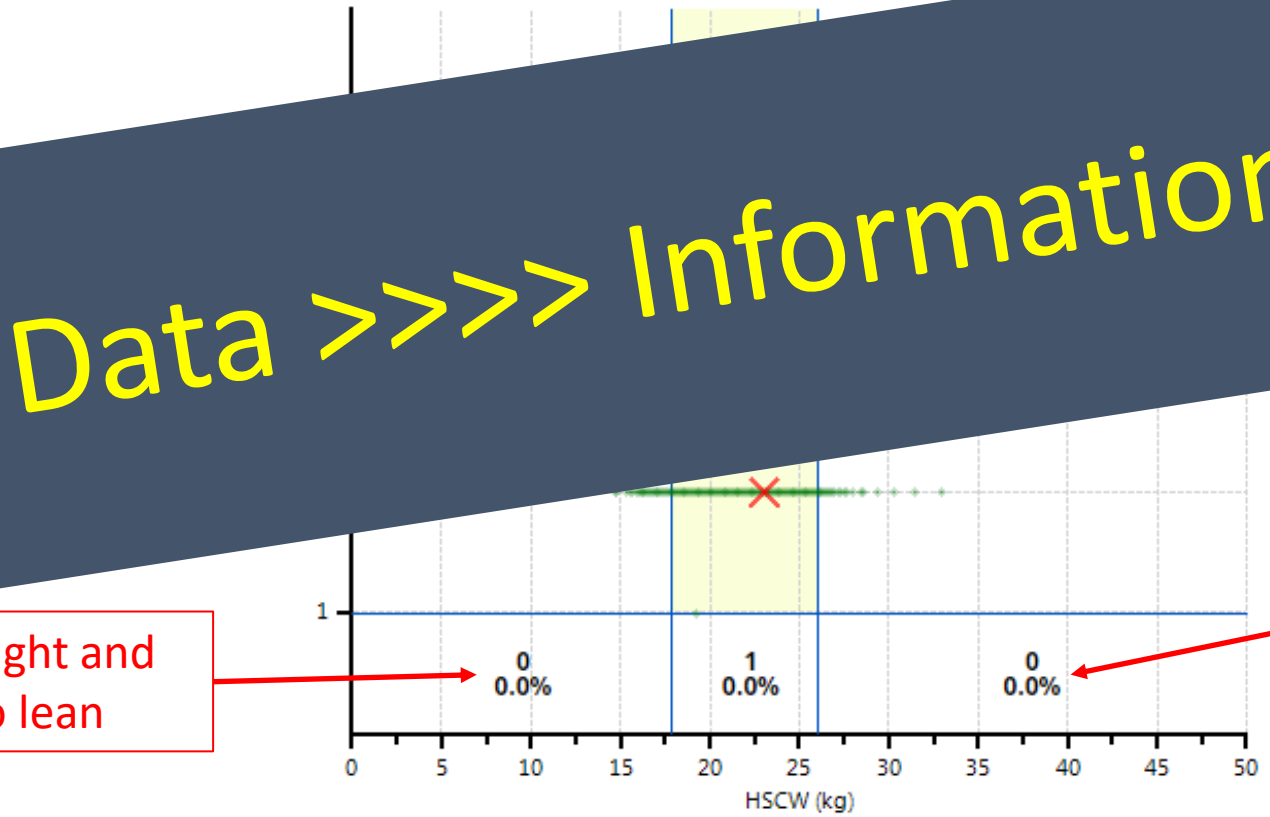
Workshop

Farm Assurance | 31/12/2010 - 17/04/2019

HSCW (kg)	Discount

Carcase Analysis Report

Grid compliance to HSCW (kg) and Fat



Data >>>> Information >>>> Decisions

Too Heavy

Too Heavy and too lean

Too Light and too lean

How can I improve – Solutions to Feedback Library?

CATTLE SHEEP

WEIGHT AND FAT
AGE/DENTITION
LEAN MEAT YIELD
DISEASE & DEFECT CONDITIONS
RESOURCES

Home > Cattle > **Meat Standards Australia Grading**

- AGE/DENTITION
- BRUISING
- CHILLER ASSESSMENT
- DISEASE & DEFECT CONDITIONS
- LEAN MEAT YIELD
- **MEAT STANDARDS AUSTRALIA GRADING**
  - MARBLING
  - MSA INDEX
  - MUSCLE PH
  - OSSIFICATION
- FAT - RIB FAT THICKNESS AND DISTRIBUTION
- RESOURCES
- WEIGHT AND FAT

Meat Standards Australia Grading

Click on the following links to access information on how to improve carcase com
Standards Australia (MSA) grading:

- Muscle pH
- Ossification
- Marbling
- Fat - rib fat thickness and distribution
- MSA Index

myMSA

Resources

BeefSpecs - A tool to assist meeting market specs

BeefSpecs calculator

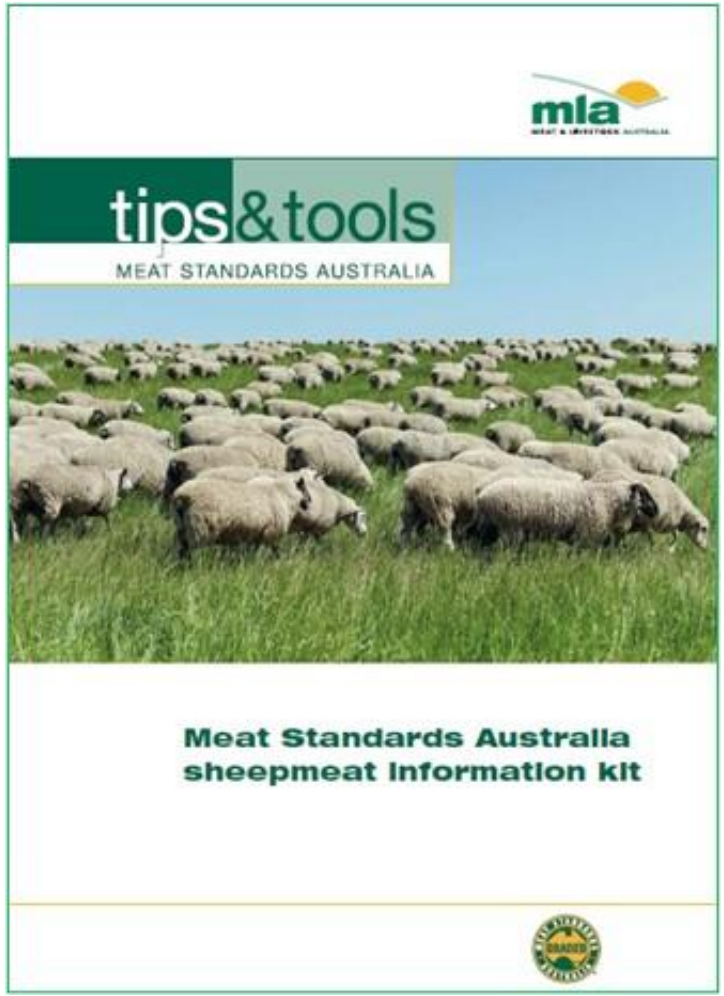
MSA Feedback support

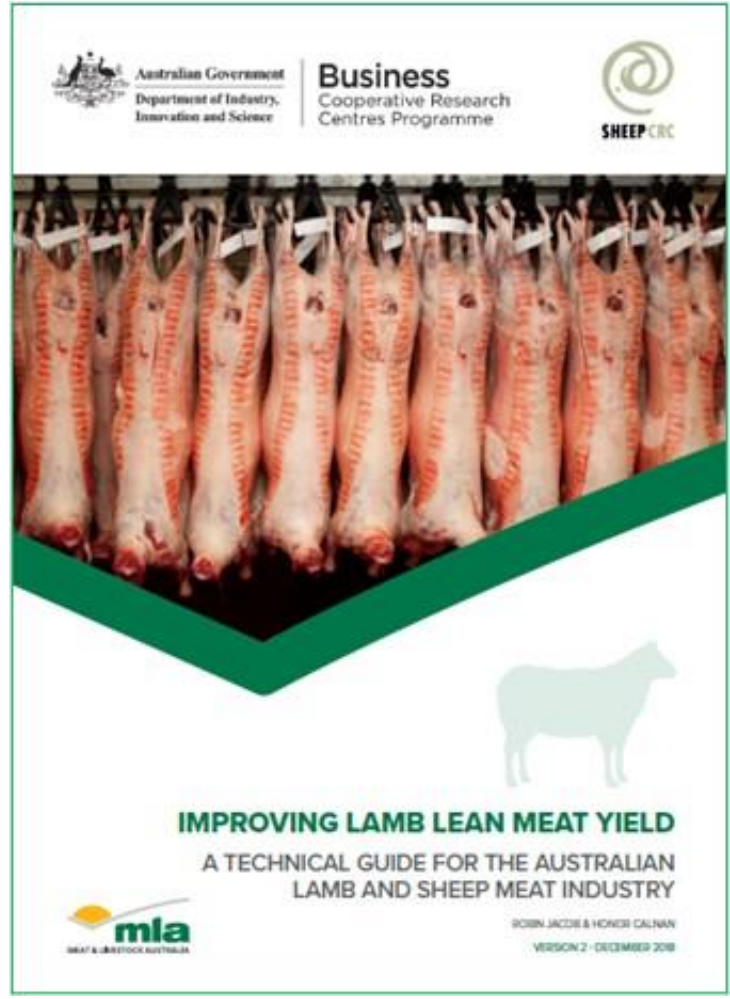
Solutions to feedback (beef)

MSA grading glossary

myMSA support

myMSA help guide for Producers





Take home message *Holy-grail = VBM

Carcase value ($) = Carcase Wt X Lean Meat Yield X Eating Quality

Need to be able measure these!

Key Messages

1. RELATIONSHIPS / TRUST

2. DATA – INFORMATION – DECISIONS

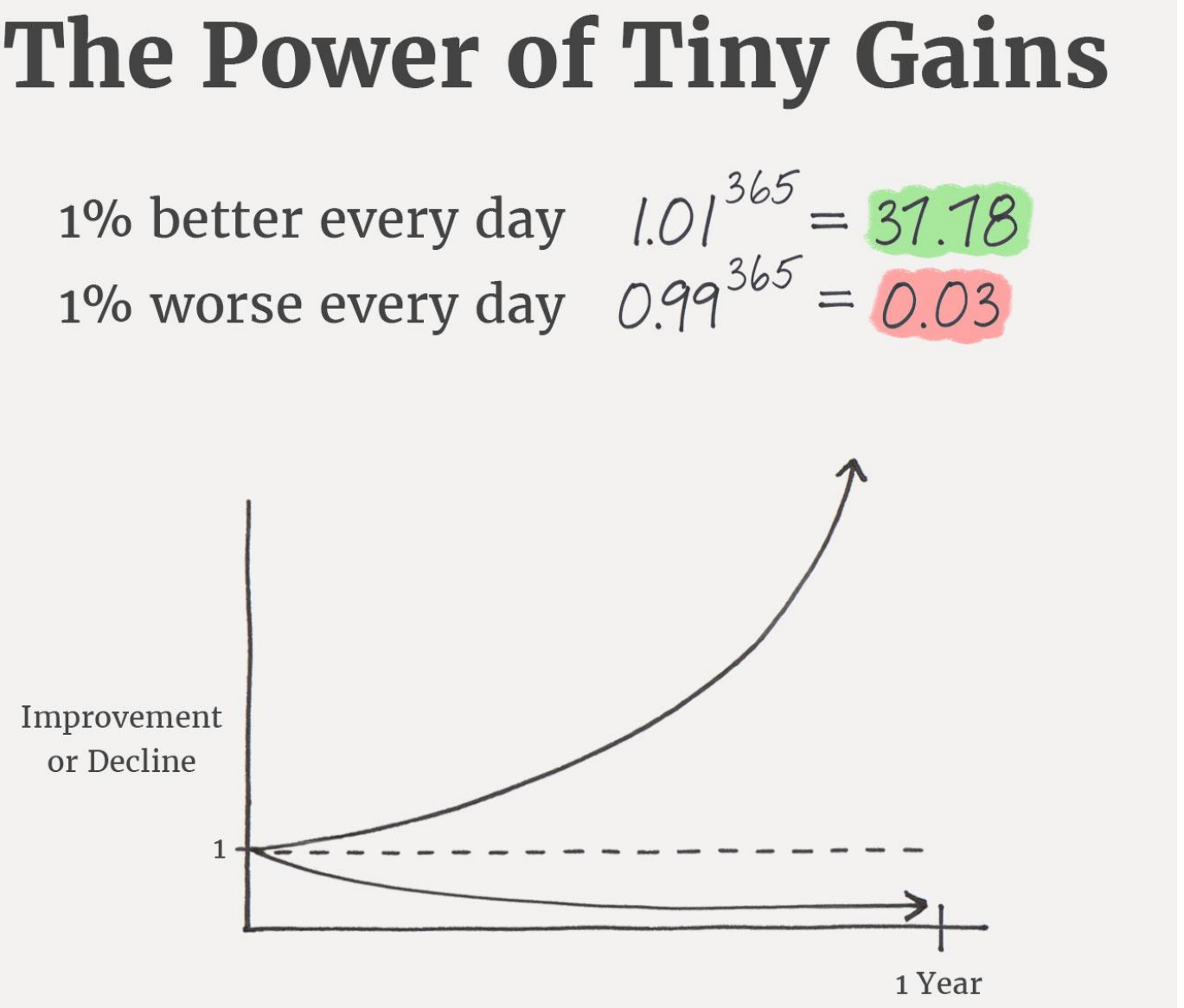
3. DO SOMETHING to increase compliance and profit
   - ✓Genetics, nutrition, management, animal health, time of turnoff, change target market
   - ✓Skill development, tools & resources, use of trusted advisers

1% better every day = 37% better in 1 year!"

- James Clear

"Atomic Habits"

https://jamesclear.com/



Tools and resources

- Meating the Market – Lamb Compliance PGS SLP

https://www.mla.com.au/extension-training-and-tools/profitable-grazing-systems/

- Lean meat yield technical manual (Sheep CRC)

https://www.mla.com.au/globalassets/mla-corporate/marketing-beef-and-lamb/documents/meat-standards-australia/improving-lamb-lean-meat-yield-interactive-july-2019.pdf

- Livestock Data Link

https://www.integritysystems.com.au/data--feedback/livestock-data-link/

https://solutionstofeedback.mla.com.au/

- Dexa

https://www.mla.com.au/globalassets/mla-corporate/news-and-events/documents/dexa-factsheet-lr.pdf

Tools and resources

- Making more from sheep – market focused lamb and sheepmeat http://www.makingmorefromsheep.com.au/market-focussed-lamb-and-sheepmeat-production/index.html
- More beef from pastures – meeting market specificiations https://mbfp.mla.com.au/meeting-market-specifications/
- BeefSpecs Calculator: http://beefspecs.agriculture.nsw.gov.au/
- Meat Standards Australia: https://www.mla.com.au/marketing-beef-and-lamb/meat-standards-australia/
- ALMTech: https://www.almtechau.com/#
- Genetics: https://genetics.mla.com.au/