

# Practical Application of EID's in a Commercial Merino Flock

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## “Congi Station” (Walcha, NSW)

- 10,000 Ha (Granite soils, 800mm Rainfall, 900M Elevation)
- 60,000 DSE Fine wool Merino enterprise (Av. 16.7 Micron)
  - Includes, 600 ewe nucleus flock as a Ram Multiplier.
- 20,000 DSE Crossbred beef enterprise

## “Doughboy Mountain” (Wongwibinda, NSW)

- 1980 Ha (Basalt soils, 980mm Rainfall, 1400M Elevation)
- 20,000 DSE Beef fattening Enterprise

# Why did I Adopt EID's?

- Manually collecting data for ram multiplier, using Indexing as a selection tool. (FD, CV, GFW, BWT)
- Errors in data recording were evident. 4% - 8%
  - Errors are compounded when collecting more than 1 trait
- Frustrated with staff reading tags incorrectly, including myself.
- Benefits of performance recording were obvious.
- The desire to expand this process to the commercial flock

# What was our plan?

- Open Nucleus – Use the 16,000 head commercial flock to drive genetic gain
    - Initially used FD alone as an initial parameter for stud selection.
  - Move away from single trait selection towards a totally indexed flock
  - Make Objective selection decisions – “culling for economic fault”
  - Use an index that drives positive commercial outcomes. Could not expand
- Indexing to the commercial flock without EID's
- Indexing approx. 14,000 animals per year
  - Collecting over 40,000 individual records (FD, GFW, BWT, CV, SS, WEC)

# Understand the profit drivers in your enterprise.

- 25 years of benchmarking tells us that on average **68%** of our Merino Enterprise income comes from wool.

- Change our thinking, away from FD and CFW and think of

## **“Fleece Value”**

- Adopt an Index that aligns with fleece value

# How did we go about it

- Sample of 700 ewes ( same age )
- Micron & Fleece weight data on each
- Applied 5 Yr Average wool price to each animal
- Fleece Value variance \$107.63 - \$24.37

**Difference = \$83.26**

How do we retain the better performers?

“Use a selection index that aligns with our objective”

Expected 10 Year response

	<b>FP+</b>	<b>MP+</b>	<b>DP+</b>	<b>Y7/15</b>
CFW	+2.0%	+5.1%	+3.0%	+11.4%
FD	-0.7 $\mu$	-0.3 $\mu$	0.0 $\mu$	-0.8 $\mu$
BWT	+0.2Kg	+1.4Kg	+2.3kg	+0.8Kg
SS	+1.2Nkt	+1.4Nkt	+0.5Nkt	+0.8Nkt

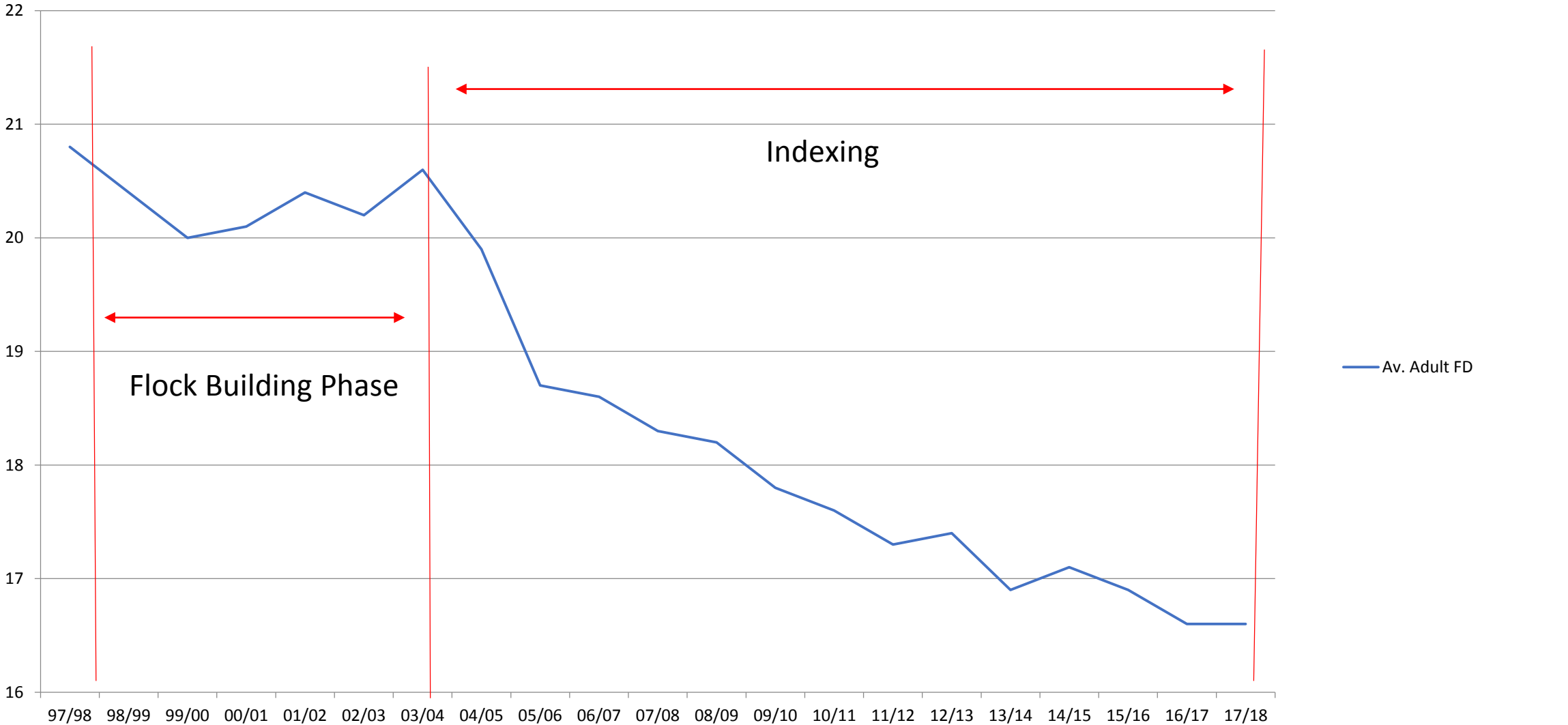
What is the financial impact of these indexes?

# Per Head Fleece Value Outcomes

Index	Correlation to Fleece Value	10 Yr. Value Add
DP +	-	\$1.26
MP +	0.58	\$5.51
FP +	0.66	\$7.92
Y7/15	0.72	\$12.53

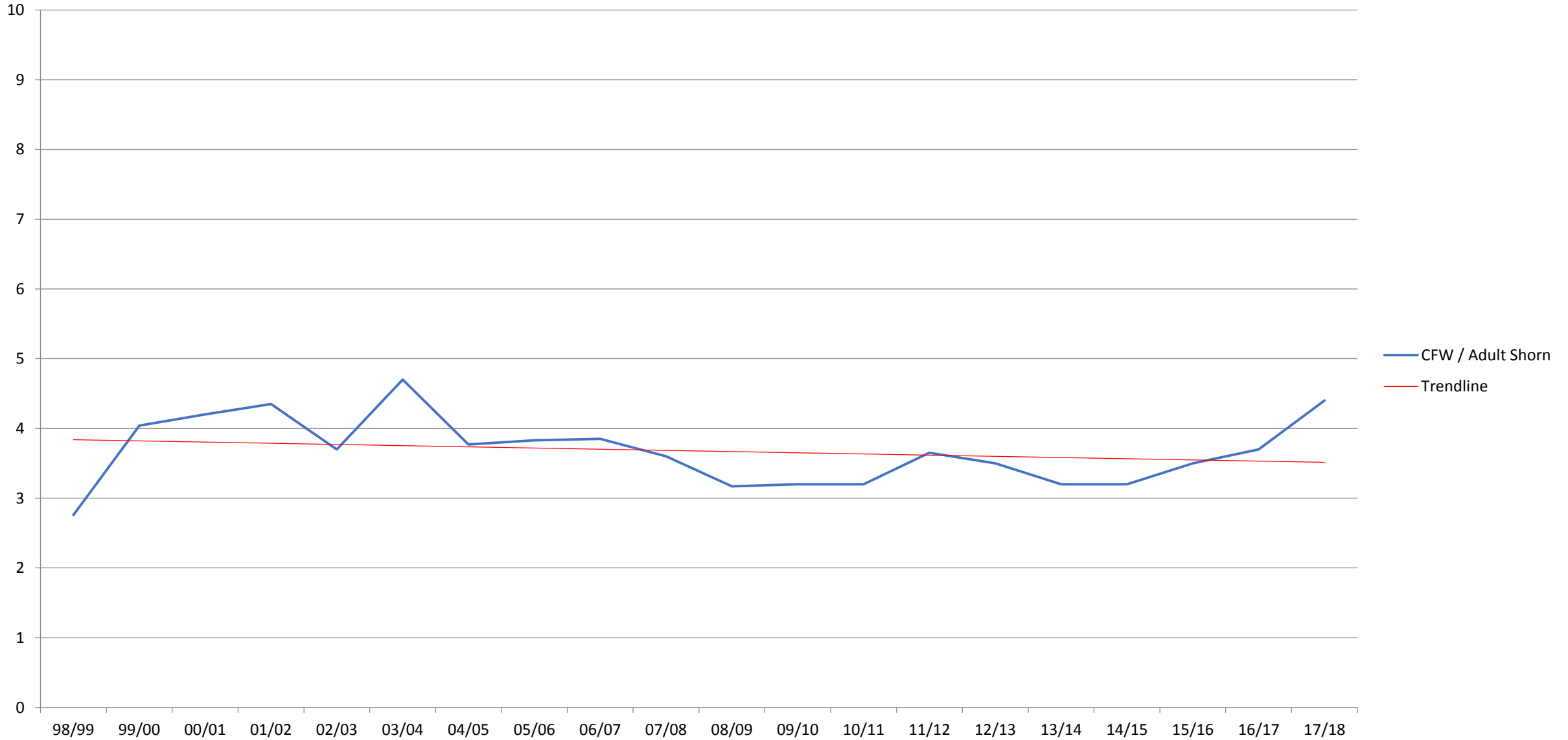


# Average Adult Fibre Diameter

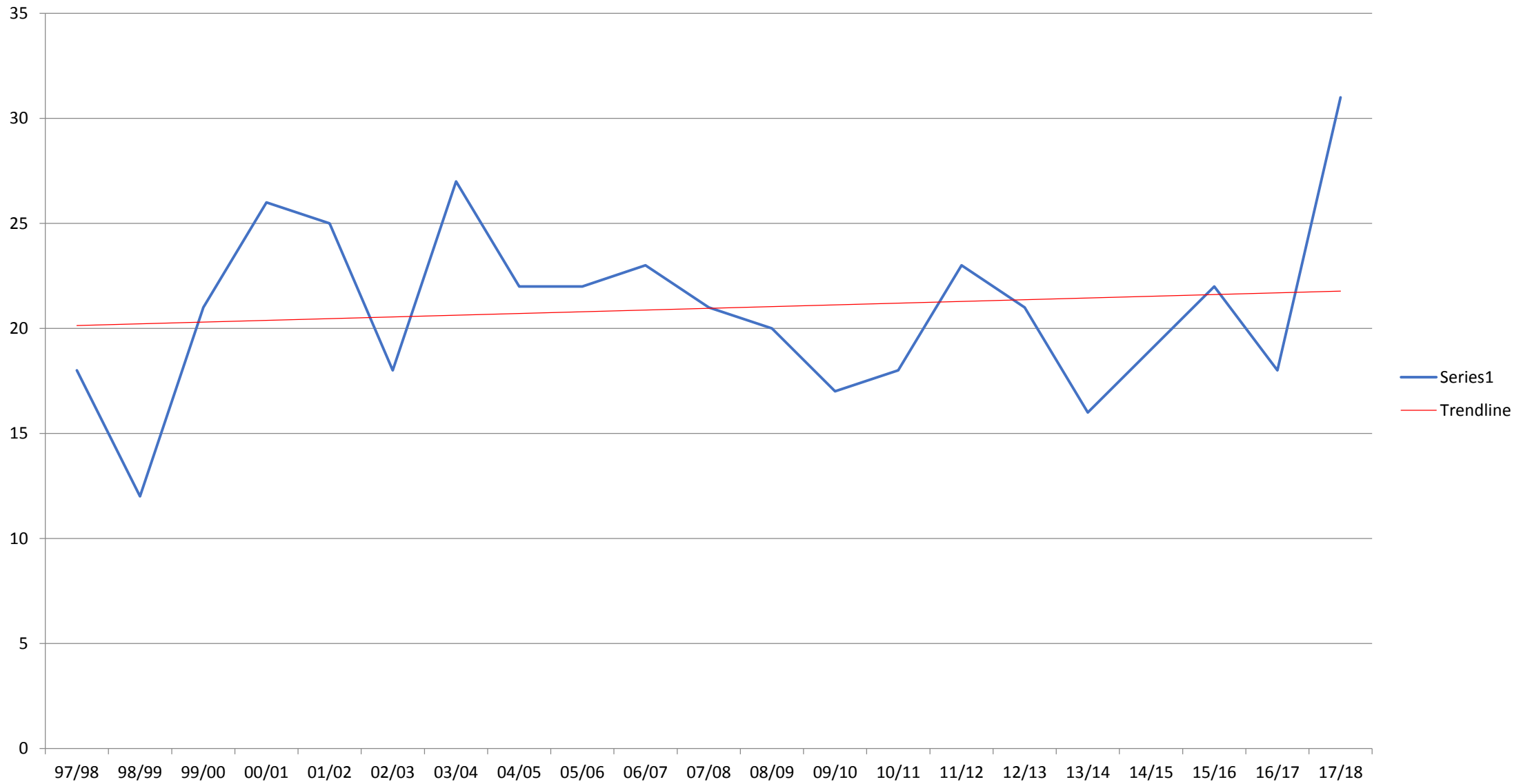


Source: Holmes Sackett, Benchmarking Report

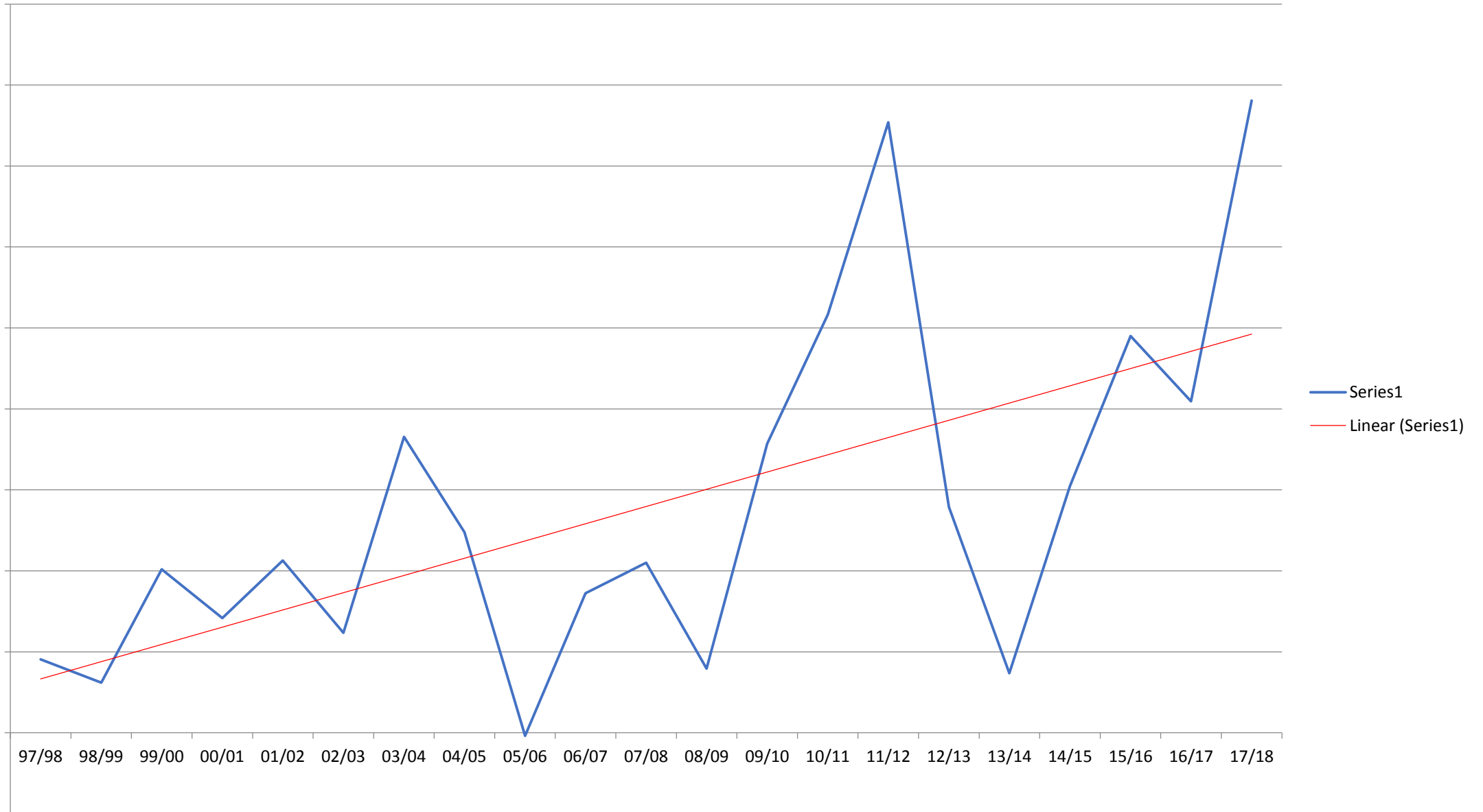
# Kg's Clean Fleece Per Adult Shorn



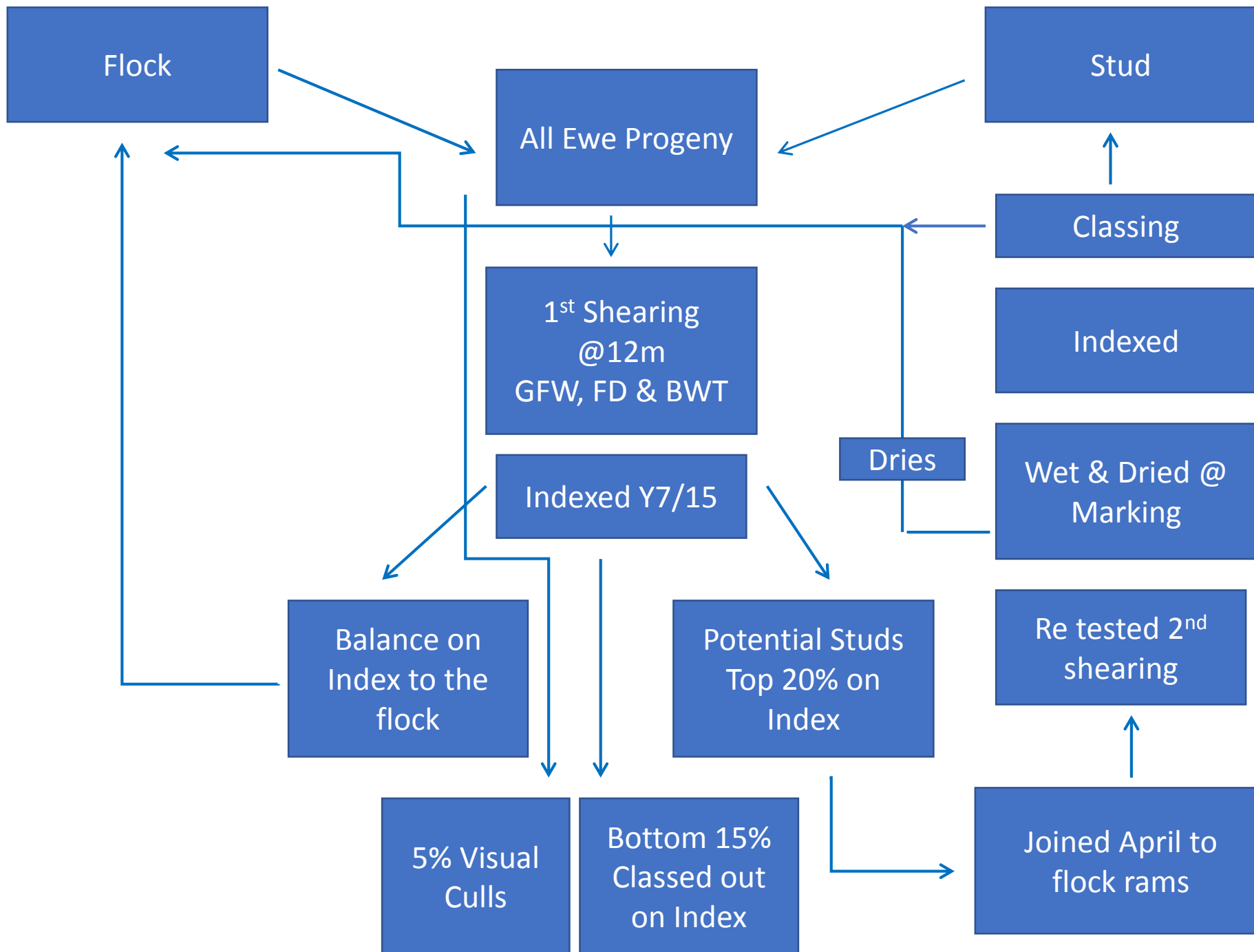
# Kg's Clean Wool Per Ha

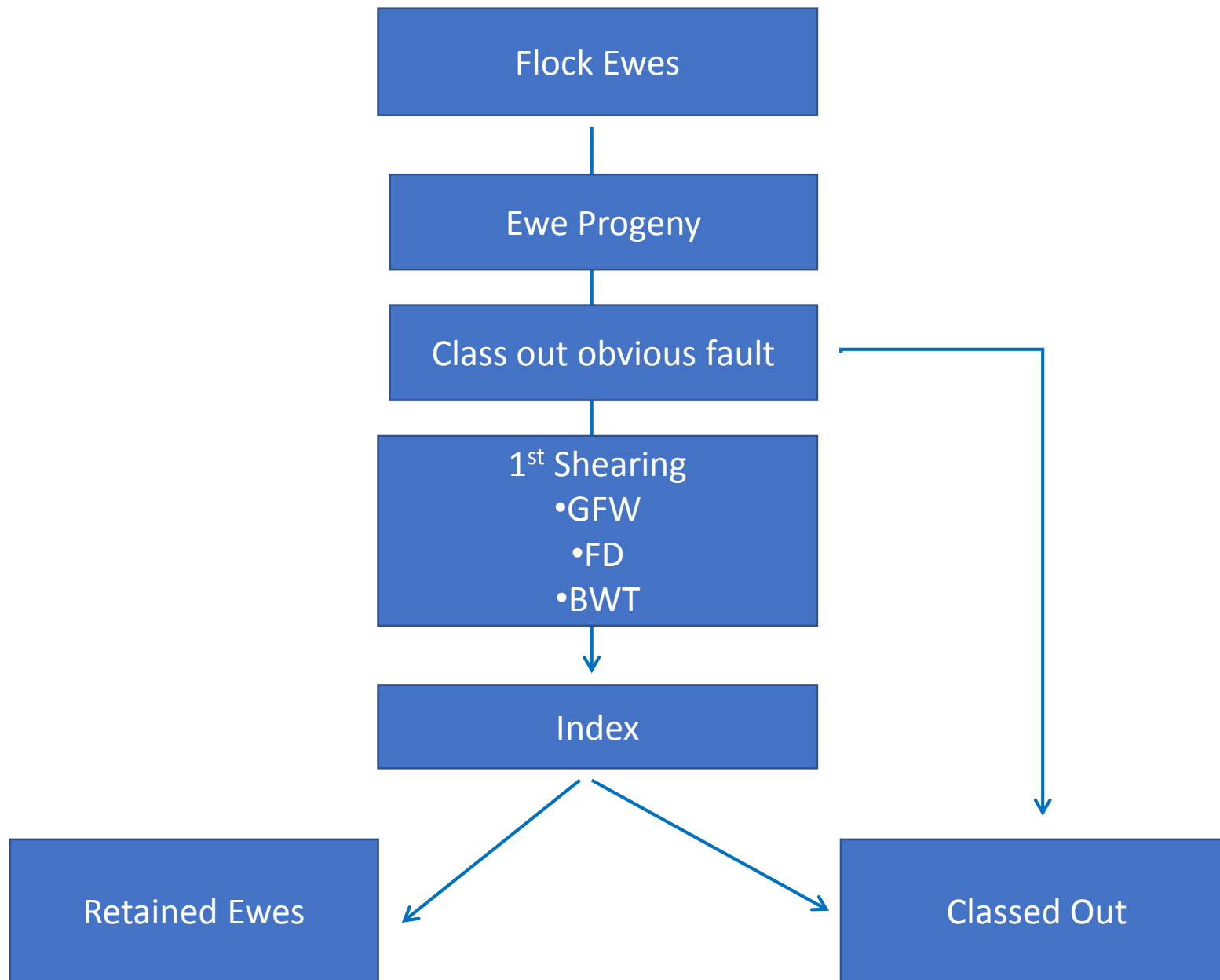


# Net Profit per DSE









# eID's & Data Collection Hardware





# Pro's of using EID's

- Speed in data collection and retrieval
- Improved data accuracy – (especially on large no.'s animals)
- Classing decisions become Objective not Subjective
- Ability to use additional tools such as DNA Parentage, Autodrafter, Pedigree Matchmaker, walk over weighing.
- Lifetime Traceability
  - A positive for quality assurance programs

# Con's of using EID's

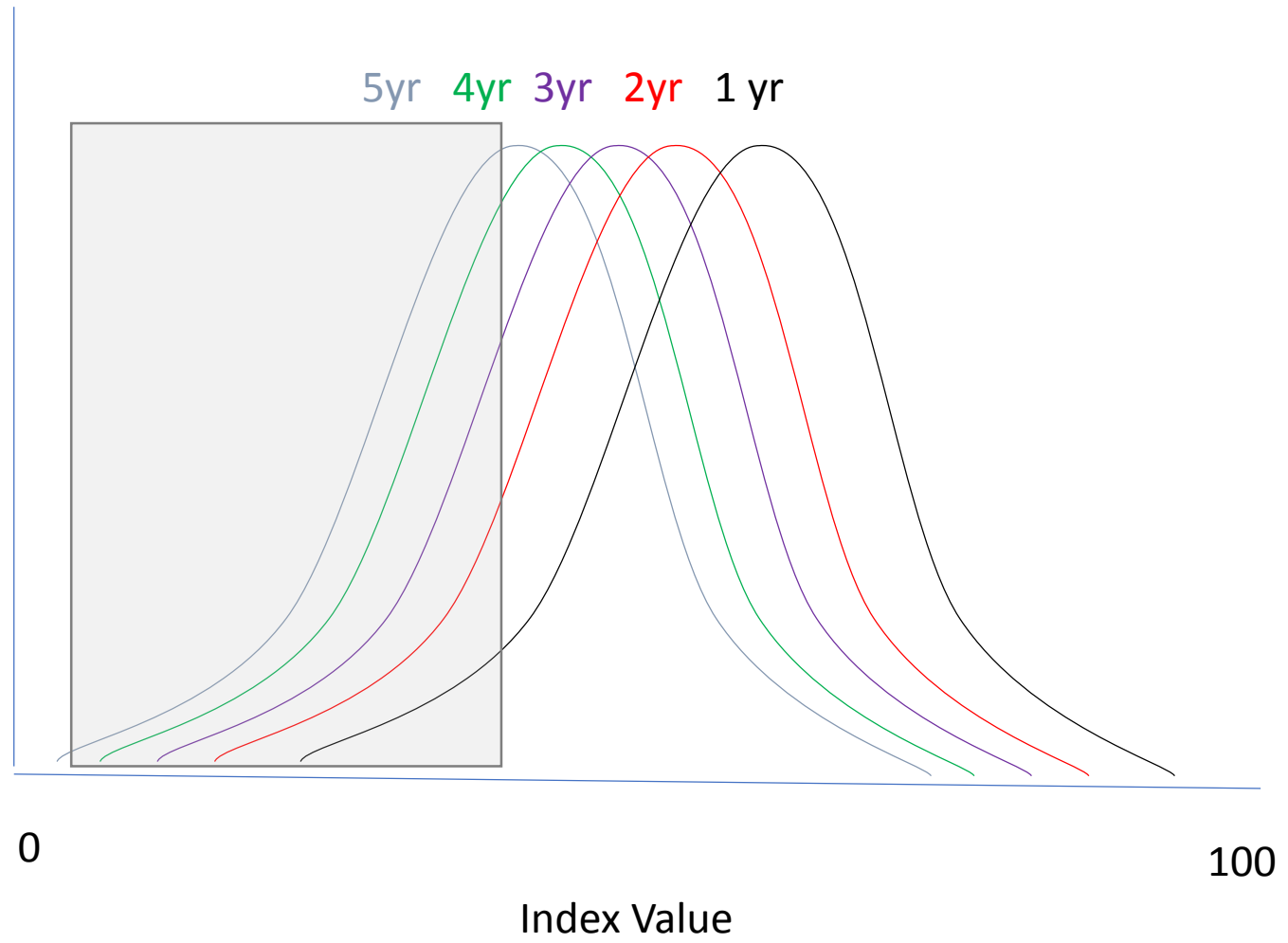
- Additional costs
- Need to maintain data integrity
- Computer literacy and data management software
  - Only use 1 to 2 times per yr. (How did I do that last time?)
- While quick to collect data, setup etc. does take time.
- Technology will let you down, generally when under pressure

# Should you adopt EID's in your flock?

- Do you have a concise plan?
- Estimate \$9000 ( assuming buying everything)
  - Wand Reader - \$1900 (Share with cattle enterprise)
  - Indicator - \$3000 (Share with cattle enterprise)
  - Load Bars - \$1500 (May have for weigh crate)
  - Barcode Reader - \$700
  - Barcode Printer - \$1700
- Moving from a printed flock tag \$0.45 to and EID tag \$1.85

**“Can you get a return for that Investment?”**

Things are tight, I cant afford to start now !!!!



# Tips & lessons Learnt.

- Start with a single cohort, Start small.
- Consider using a service provider before investing in hardware
- 1<sup>st</sup> data collection time, do at a less stressful event - **NOT SHEARING**
- Use of scale Indicator and spreadsheets are fine to start with.
- Before purchasing equip. talk to neighbours and see what they are using.  
(gives backup when a breakdown occurs)
- Find out about tech support prior to purchasing equip. ( you're going to need it)

Questions?