

EID Implementation to Drive Business Decisions

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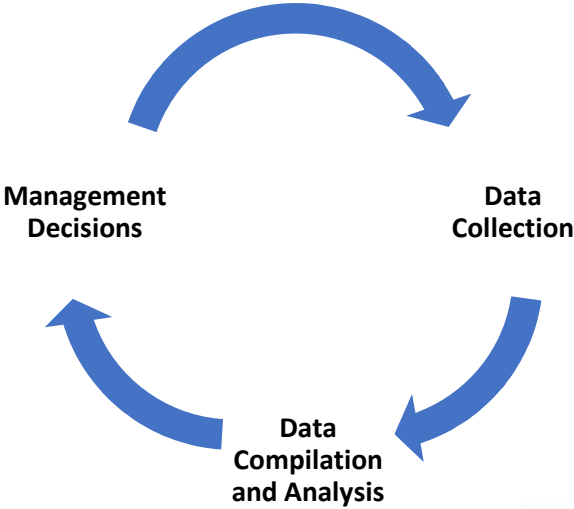
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What is an EID System?

- An EID (Electronic Identification) system is an **individual animal management** system to **help** in business decision making utilising electronic technology.
- Focuses on identifying and measuring the **individual** within the mob to help **improve** the overall livestock business
- Data can be extracted via certain software to spreadsheet or other formats
- Can be utilised in cattle, sheep and goats.

What is an EID System?



Aims of Decision Making from EID

- Make **evidence based** management decisions
 - Sometimes Complex Scenarios
- Plan for **Key** Production Opportunities and Challenges
 - How do we utilise current FOO
 - How do we better plan for drought
- Manage individuals whilst **also** managing the flock
 - Twins v Singles
 - Early v Late
- Measure the **response** to management decisions
 - Wet Dry Females at Lamb Marking
 - Condition Score to Assess Re-join Potential

Aims of Decision Making from EID

- Select in a more **structured** way animals to retain and cull

RFID	Colour	30% Weighting			50% Weighting		20% Weighting	
		BW (kg)	BW Index	Pregnancy Status	Status Index %	GFW (kg)	Fleece Yield	Combined Index
900 059000037355	Green	75	114%	2	150.4%	7.6	95.3%	128.4%
982 123526290679	Purple	64.8	98%	2	150.4%	7.8	97.8%	124.3%
982 123526290994	Purple	67	102%	1	75.2%	7.5	94.0%	86.9%
982 123526291047	Green	76	115%	1	75.2%	8.6	107.8%	93.8%
982 123532569376	Purple	60.1	91%	1	75.2%	6.8	85.2%	82.0%
982 123741801840	Purple	62.3	95%	1	75.2%	9	112.8%	88.6%
982 123741802127	Green	64	97%	2	150.4%	8.5	106.5%	125.7%
982 123743417448	Green	65.2	99%	1	75.2%	8	100.3%	87.4%
982 123743417587	Green	58	88%	1	75.2%	8	100.3%	84.1%
Averages		65.82		1.33	1.00	7.98	1.00	100%

Before We Start, Use What You Have

- We use data **already** in our businesses

Profit and Loss Statements

Kill Sheets

Wool Test and Weight Advice

- How **effectively** do we utilise **existing** sources of data?

When was the last time you utilised a kill sheet?

Have you done a time series of marking or weaning percentages?

Where do we start?

- Develop Clear Framework of **What We Are Going to Measure** and **Why Are We Going to Measure**

You Don't Need to Conquer the World
Match CAPEX to Framework

- Understand your **key profit drivers** and focus on them in a **whole business context**

Keep yourself, the family and bank manager happy
Look at both sides of the P&L
Think about FOO and other Constraints

EID Tools and Technology

- Investment can vary **significantly**
 - Tags \$1.50+
 - Readers \$2000+
 - Scale Heads \$2500+
 - Autodraft \$15,000+
- You don't need to spend a lot to get **meaningful and significant** results
- Utilise your **existing** resources
 - Pregnancy Testers and Agents are usually EID Equipped
- Build a **strategic** CAPEX into your EID Framework
- Remember technology gets better every day.

Remember...

- **Context** of our operations
 - Rangelands v Inside
 - Sheep v Cattle v Goats
 - Breed v Breed
- **Don't Sweat Imperfections**
 - Misreads are a part of life
 - Something is better than nothing
- Nothing Happens in **Isolation** in a Grazing System
- Can we get too much data, "**Paralysis by Analysis**"?

EID Demonstration

- Deva Station is a self replacing merino flock based in the rangelands. They have historically run a bloodline of Footroot Flat Merinos for a significant period of time but have recently decided to move towards a more fertile and robust Golden Fleece type merino. They have historically had an average 70% lambing which they would like to improve upon. They do not want to lose their long renowned wool clip but are incredibly keen to improve where the other traits of the flock. Due to the expenditure on rams, they are aiming to identify a high performance mob of ewes to put to these new rams, hoping the desired traits will eventually flow through to the rest of the flock.
- Deva Station has the dream of creating one of the most fertile flocks in the Western Division and has employed you as the consultant to set a framework to identify ewes with certain traits to achieve their breeding objectives.

As the consultant you need to identify the following:

- **Which ewes will be joined to the new rams**
- **Which ewes will be joined to the existing rams**
- **Which ewes will be culled**

EID Demonstration Continued

What Will We Measure and Why?

Dry Versus Singles Versus Twins

Identify the higher performing ewes and better match nutrition where we are able to

Early Versus Late

Identify those ewes getting in lamb earlier to better match nutrition and weaning times

Wool Traits

Identify the most productive wool types within the mob

Condition Score

Identify if ewes have the reserves to achieve an optimal lambing result

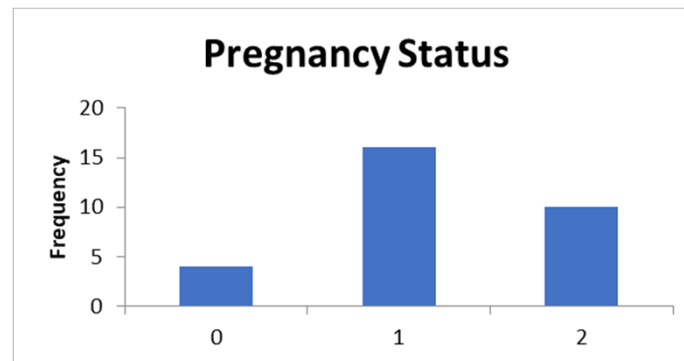
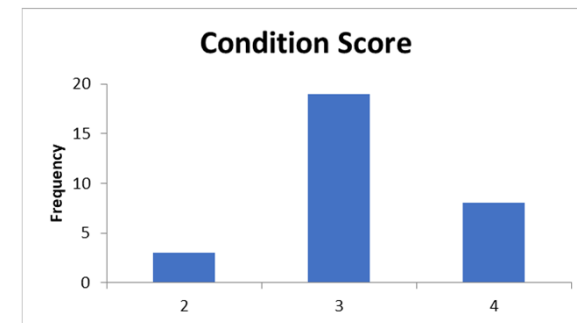
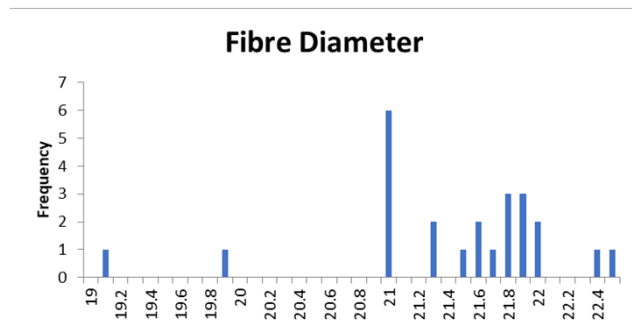
EID Demonstration Continued

EID	SEX	FLWEIGHT	PREG STATUS	MICRON	C.SCORE	NOTE
940 110017452830	EWE	6.5	1	22.4	3	E
940 110017452829	EWE	6.2	2	22.3	3	L
940 110017452828	EWE	6.7	1	22.8	3	E
940 110017452823	EWE	7.5	0	22	4	
940 110017452822	EWE	6.7	1	21.3	3	E
940 110017452863	EWE	6.5	2	21.6	3	L
940 110017452880	EWE	7.3	1	22	3	E
940 110017452879	EWE	7.5	1	22.9	4	L
940 110017452825	EWE	6.8	1	21.3	3	E
940 110017452826	EWE	7.3	2	21	3	E
940 110017452824	EWE	6.8	2	21	2	E
940 110017452878	EWE	7.3	1	22.5	4	L
940 110017452877	EWE	6.7	1	21	3	E
940 110017452827	EWE	6.5	2	19.9	2	L
940 110017452860	EWE	6.8	2	21.6	3	L
940 110017452864	EWE	7	2	21.7	3	L
940 110017452867	EWE	7	1	21	4	E
940 110017452876	EWE	7.9	0	23	4	
940 110017452870	EWE	6.7	1	21.8	3	E
940 110017452869	EWE	6.8	1	21.8	3	E
940 110017452866	EWE	6.9	1	21.9	3	E
940 110017452861	EWE	8	0	23	4	
940 110017452865	EWE	6.9	1	21.9	4	L
940 110017452872	EWE	7.2	1	21.9	3	L
940 110017452873	EWE	4.8	2	19.1	2	L
940 110017452871	EWE	9	0	23.8	4	
940 110017452874	EWE	6.8	2	21	3	E
940 110017452862	EWE	7	2	21.8	3	L
940 110017452875	EWE	7.5	1	21	3	L
940 110017452868	EWE	6.8	1	21.5	3	E

EID Demonstration Continued

Summary Statistics	
Average Fleece Weight	6.98
SINGLE	16
TWIN	10
DRY	4
Average Micron	21.7
E	14
L	12
Average Condition Score	3.2
Total Number of Lambs Expected	36

EID Demonstration Continued...



Take home messages

- You do not require significant investment to get started
- Utilise the data and people you have around you
- You don't need to take on the world to make a start
- Nothing Happens in Isolation

Tools and resources

MLA Articles

- Scanning for Success with EID

<https://www.mla.com.au/news-and-events/industry-news/scanning-for-success-with-eid/>

- Elevate Your Flock with EID

<https://www.mla.com.au/news-and-events/industry-news/elevate-your-flock-with-eid/>

- Should I Invest in Sheep EID

<https://www.mla.com.au/news-and-events/industry-news/archived/2017/should-i-invest-in-sheep-eid/>