



# It's all about information

EID tag technology offers the ability to gain extra profitability from livestock, farm consultant **Tom Ward** of Ashburton writes.

**R**ather than look on EID tagging as just another compliance cost, efficient farmers are using the technology to enhance their profitability.

That's not to say efforts to improve farmers' use of EID tagging for Mycoplasma bovis and tuberculosis control is not vital. On the contrary. Farmers looking to buy livestock want confidence that the animal will not be a carrier of disease. As a vendor, or livestock owner wanting to graze off, the ability to scan the tag, then instantly bring up information on the animal's historical movements on the phone app is invaluable. This information is then transferred to the buyer.

EID tagging is not a topic to be considered on its own. At the risk of stating the obvious, EID technology is a part of the greater tagging system, part of the recording system, which is a part of farm management. It all needs to be done right. At its most basic level, simply using the EID tag as a recording system adds

value. Every time livestock are run through a race the farmer has a record of which ones are missing (or there when they should not be).

*Imagine how much progress could be made by all parties if the information a breeder collects from generations of progeny could be shared with the growth and slaughter information the buyer of those progeny has collected.*

Time is very important, and generally in short supply and this has been a major limitation to dry stock farmers who wish to record a greater amount of animal and farm information.

Technology allows the farmer to digitally record and analyse much more data –

pregnancy scanning, body condition scores, health treatments, calving and lambing issues, liveweight changes, dry dries, wet dries, carcase scanning, carcase data at slaughter, and wool and velvet weights.

This is where EID tags are so useful. Whether the tag reader is a handheld wand, or a crate-mounted scanner, the animal is instantly identified, and information loaded, viewed or both.

I am keen on animals being DNA tested, for ancestry at least. All rams and bulls bought should come with DNA-verified parentage as a minimum. In our sample 500 breeding cow herd, calving as two year olds, with DNA sampling costing \$20-\$30/animal, there would be an initial \$10,000 to \$15,000 cost for testing the in-calf females. Thereafter, all calves would need to be tested each year. With 90 % calving, a 250kg weaning weight, the cost would be a maximum \$13,500 or between eight cents and 12c/kg liveweight/calf weaned. (Does not allow for cow LW sold).

While this is a significant cost, it can



**Far left:** Tagged sheep hold vital information.

**Left:** EID tag in a calf's ear.

be recovered in a number of ways: better bull buying and culling management, better cow and replacement heifer culling management, and better marketing management of both store and fat stock.

By using DNA and artificial insemination techniques, and by weighing, scanning and otherwise recording livestock, the commercial farmer is benchmarking himself to the stud stock industry. This is adding progeny information to ancestry information and improving the accuracy of selection and culling decisions.

Farmers report EID tagging is actually more beneficial to finding poor animals than better ones.

If you are calving cows on the hill, short of time, or relying on staff, DNA testing all calves will be a big help. For example, a freemartin heifer could be quit at weaning.

The attached Farmax gross margins show \$100/head nett benefit to a beef finisher who achieves a 29c/kg CW premium for meeting a processor's specifications.

I've seen at the Culverden weaner calf sales, exotic heifers sell for the same per kg LW price as straight-bred steers. I've seen at the Temuka calf sales the finishers pay more for McKenzie Basin weaner steers because they trust the breeding from those large stations.

Imagine how much progress could be made by all parties if the information a breeder collects from generations of progeny could be shared with the growth and slaughter information the buyer of those progeny has collected.

My friend in Montana, United States, who manages an 80,000-acre breeding cow operation which sells weaners, gets the message quickly from the meatpackers (meat company) when his carcass characteristics start to fall away.

This is happening in New Zealand, but to a much more limited extent. Generally, breeders are not very interested in what happens to the calves once sold.

We are trying to breed herds and flocks with great maternal characteristics and which also produce very efficient progeny. All commercial farmers will have these cows, they just do not know enough about the cows. Once the farmer has this information, the cows not needed to breed replacements can be put to a higher growth rate bull. Also, exceptional cows can be used to breed replacement bulls.

With total cost of reader and indicator of \$5000 and using a very rough method of calculation, in a 500-cow breeding herd this is \$10 a cow, on average \$2/cow/year over five years.

In a sheep flock, where EID tags would not otherwise be bought, the annual average cost to a 5000-ewe flock, over five years would be \$31,250, \$6.25

per ewe, and \$1.25/ewe per year.

If you did not already own sheep scales, a manual three-way draft crate including load bars will cost \$3000, and automatic one \$12,000. A cattle crush, including load bars, platform and head bail, will cost about \$14,000.

So the benefits are there and the barriers to entry not great.

Gross margin for Weaner Steers finished (plus \$100/head)							
Cranleigh beef, July 16 - June 17							
		Number	kg/hd	\$/kg	\$/hd	\$ Total	c/kg DM
Revenue	Stock	Store Sales				0	
		Works Sales	1,975	367.8	5.87	2,159.53	4,265,079
		less Purchases	2,000	264.0	4.00	1,056.00	2,112,000
		Total				2,153,079	25.2
	Change in Capital Value					30,588	
	Total Revenue					2,183,666	25.6
Expenses	Stock	Animal Health	2,489		3.01	7,500	
		Total				7,500	
	Interest on Capital					173,553	
	Total Variable Expenses					181,053	2.1
Gross Margin						2,002,613	23.5

Gross margin for Weaner Steers finished (benchmark)							
Cranleigh beef, July 16 - June 17							
		Number	kg/hd	\$/kg	\$/hd	\$ Total	c/kg DM
Revenue	Stock	Store Sales				0	
		Works Sales	1,975	367.8	5.58	2,053.69	4,056,039
		less Purchases	2,000	264.0	4.00	1,056.00	2,112,000
		Total				1,944,039	22.8
	Change in Capital Value					30,588	
	Total Revenue					1,974,627	23.1
Expenses	Stock	Animal Health	2,489		3.01	7,500	
		Total				7,500	
	Interest on Capital					173,553	
	Total Variable Expenses					181,053	2.1
Gross Margin						1,793,574	21.0

Production reconciliation for Weaner finishing (October slaughter)									
July 16 - June 17									
Total Product (kg)	Open	Wean In	Wean Out	Buy	Sell/Shear	Tr. In	Tr. Out	Close	Net Produced
Beef									
Carcass	338,197			211,600	532,204			338,197	320,604
Total Beef	338,197			211,600	532,204			338,197	320,604
Farm Total	338,197			211,600	532,204			338,197	320,604
kg Meat per ha [*]									
		574.56							
kg Total Product per ha [*]		574.56							
kg DM Eaten per kg Product		21.04							
\$ Gross Margin per kg Product		2.04							
[*] Average effective area (excluding cash crops) = 558.0 ha									

Production reconciliation for Weaner finishing (January slaughter)									
July 16 - June 17									
Total Product (kg)	Open	Wean In	Wean Out	Buy	Sell/Shear	Tr. In	Tr. Out	Close	Net Produced
Beef									
Carcass	348,459			211,600	529,474			348,459	317,874
Total Beef	348,459			211,600	529,474			348,459	317,874
Farm Total	348,459			211,600	529,474			348,459	317,874
kg Meat per ha [*]			569.67						
kg Total Product per ha [*]			569.67						
kg DM Eaten per kg Product			23.49						
\$ Gross Margin per kg Product			1.69						
[*] Average effective area (excluding cash crops) = 558.0 ha									

The Farmax tables show the benefits from higher growth rate and efficiency gains from superior animals. The earlier finishing option resulted in a \$51,000 better farm gross margin from 635,000 kg DM less.