

# 2004 SCHOLARSHIP REPORT

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# Topic:

Lamb Production, Marketing and Quality Assurance (Focus on Brands and Value Adding for the Producer)

Sponsored by: Meat & Livestock Australia



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**Executive Summary** 

Lamb producers - have you ever been really disappointed after a sale of lambs in the auction

or over the hooks, especially when you believe the quality of lambs is excellent? My guess is

that you have, even though you may have invested in good genetics, feeding and even been a

part of a Quality Assurance scheme. That being the main driver, an astute couple from

Beachport, South Australia put into motion a branded product called Limestone Coast Lamb

(LCL). They then invited three other likeminded businesses to join them to start a company of

which I am a director.

Starting a branded product takes a lot of time and effort, and is often met with little success.

The red meat industry has developed over a long period of time and some people involved in

the industry are entrenched in their views and ways.

To broaden this thinking and help in the development of our industry and product, I have

looked at similar products and businesses overseas and in Australia. I visited the UK, Canada,

USA, and New Zealand on my study tour.

Being involved in the industry from three different perspectives at production level, including

seed stock, prime lambs and brand marketing, gave me the basis to look at operations in other

countries industries and bring home findings or innovations.

The main focus of my study was to look at producer-driven value adding, some through

branding, some through continued ownership along the marketing chain. I also looked at the

industry outlook on a global scale to see whether the current buoyant conditions for lamb will

continue.

The sheep and lamb industry in Australia is in a very positive position. Low and relatively

static sheep numbers in the large exporting countries look set to continue. China, although

having the largest population of sheep, nearly consumes all its own production. The US flock

whilst possibly levelling out in numbers, is still under threat of further decline as it dips below

a level of critical mass. Farmers in the UK have to face a steep learning curve as subsidies are

shifted from production based to a single farm payment.

All areas visited had some production issues. Many areas in the USA have major predator

problems, with bears, mountain lions, wolves and coyotes all playing a part in reducing lamb

numbers. Canadian producers, have the extreme winters to deal with. The UK has a lot of

small flocks comprising many breeds, making it hard to get continuity of type through the

works. Wet and cold winters also result in most sheep being shedded for a period, with most

lambed indoors. The main issue for Australian producers is the climate, which makes it difficult to get an even supply all year round. Australia also had the lowest lambing performance in percentage terms, of the countries I visited. New Zealand's problems are few, with feed systems in place to get a reasonable supply of lambs through the winter, and the North Island having a good turn-off all year. However, internal parasites are a problem.

My search for producer-driven branded products uncovered some successful brands and groups, as well as some which were less successful. The businesses I looked at are by no means an exhaustive list but I believe represent a good cross-section in the industry. The four outstanding groups I found were Mountain States Lamb co-op in the USA, Alliance Group and Primary Producers Cooperative Society in NZ, and Q lamb in WA. These groups, while not all having their own brands, were all excelling in adding value for producers.

**Acknowledgments** 

I would like to thank my sponsor Meat & Livestock Australia for its support and funding to

make my tour possible. Many thanks also to the Australian Nuffield Farming Scholars

Association for having the confidence to select me, as well as Australian Nuffield CEO Bryan

Clark and secretary Janette Lees for the organisation of the Global Focus Tour with nine other

dynamic Nuffield Scholars which was a positive growth experience for all involved.

Thanks must also go to Ken Solly, who mentored me throughout the application process and

is always a positive influence.

I am also very grateful to the people that helped on my tour with contacts, advice, friendship

and hospitality and to my business partners Phil and Leigh Clothier for being flexible and

generous with time.

A special thanks to my wife Karen and my children Sam, Hannah and Oliver for their support

and encouragement.

Graham Clothier

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**Background** 

I am a second-generation farmer and have been involved in agriculture 25 years, farming in

partnership with two brothers. We farm and manage sheep for meat, wool, and genetics.

I attended Lucindale Area Agricultural course in years 11 and 12 and completed the Business

in Rural Management certificate through TAFE in 1992-93.

Our business became involved in a branded lamb product venture two years ago. The group is

named Limestone Coast Lamb, of which I am a director, which aims to collectively add value

to our lamb through a recognised brand in the meat industry. This is being achieved through

whole carcase sales to butchers in our nearest city.

**Disclaimer** 

The views expressed in this report are entirely my own and no connection can be made to the

Australian Nuffield Farming Scholars Association or to my sponsor, Meat & Livestock

Australia.

**Objectives** 

The aim of my study was to look at similar products and businesses to Limestone Coast

Lamb, to see if any improvements could be made and also to investigate how other businesses

keep and maintain supply from producers to consumers. I soon realised that each country had

its own dynamics and drivers within each industry so as to put it into perspective my studies

then encompassed industry production, trends and challenges. I also realised that branding

was not the only way to value add for the producer and that continued ownership down the

processing chain can be achieved in other ways.

Graham Clothier

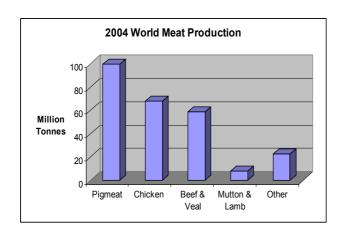
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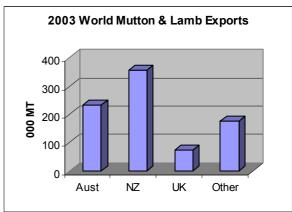
### World Industry and Production Trends

Only 3% of the world meat market is made up of sheep and lamb (Fig 1). While this is hard for me to comprehend, it gives a great picture of the place of lambs in the wider market. It is the luxury red meat being more expensive than all other red meats. We have to be careful not to price ourselves too high or risk further eroding the market.

Traditionally, the major export markets for lamb have been the UK for New Zealand and the USA for Australia, which looks set to continue. New Zealand has done a lot of work in raising the profile of lamb in Canada through advertising. The UK has a sound industry well serviced by New Zealand.

Australia produces 7% of world sheep meat production and 28% of the lamb and sheep meat exports (Fig 2). Together, Australia and New Zealand produce 70% of all world sheep meat exports.





Source: FAO Source: FAO

Fig 1 Fig 2

# **Lamb and Mutton Consumption**

Consumption in Australia of mutton and lamb is relatively stable at 18.8 kg/head. (Fig 3)

New Zealand's consumption of lamb is falling, down from a high in 2002 of 10.6kg/head to 8.7kg/head in 2004. Both Canada and the USA have very low levels of consumption, with only 30% of Americans ever having eaten lamb. Lamb is currently only 1-2% of meat sales in the USA. Most lamb is pitched at the \$8-\$10US /pound in the supermarkets, with most product consumed on the east coast.

The UK currently sits at 6kg/head, which has been at a relatively stable level for a decade or more. More than 70% of all lamb consumed in the UK is eaten by people over 45 years old, with more than 50% sold in the form of traditional roasts.

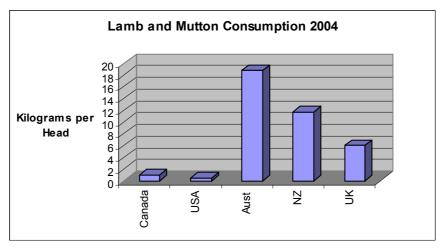


Fig 3 Source: Statistics Canada, USDA, MLA, MWNZ, MLC

#### Flock Size

Flocks in the countries I visited are now relatively stable.

After a period of high sheep numbers in the UK, driven by production subsidies the flock currently stands at nearly 36 million head, down from a high of 43 million in the early 1990s.

The Canadian flock grew by 46% from 1996 to 2001 to currently sit at 1 million head.

The US flock may be levelling out after a long period of decline, and is currently sitting at 6.1 million head, down 1% on 2003.

New Zealand's subsidy system (abolished in 1984) also pushed its flock to very high levels. In the early 1980s, it had 70 million head, and currently sits just under 40 million.

Australia's flock currently stands at 102 million (Fig 4) down from the wool-driven flock in the late 1980's of about 170 million. Australia exports 32% of its lamb production.

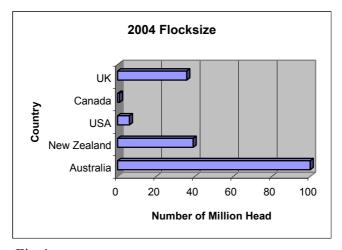


Fig 4 Source: MLC, Statistics Canada, USDA, MAF, MLA

**Wool and Skins** 

Wool is perceived as a problem in most places I visited. Returns from stronger micron wool

barely cover the shearing costs on most crossbred and British breeds, though Merinos and

their crosses are the exception. Some producers are experimenting with shedding sheep such

as Dorpers but most cannot bear to think of all that wool lying around making a mess. Wool

presses are a rarity anywhere but New Zealand and Australia, making wool harder to handle

in other areas. The usual method is tramping into sacks by foot.

Shearing sheds are also rare outside New Zealand and Australia. The capital investment is

instead put into shedding for sheep in the winter, which is also used for shearing. The

contractor will bring all the gear and set up usually under cover with a trailer.

Labour is becoming a big issue in the countries I visited. Employing people to shear, lamb

down and handle sheep is becoming increasingly difficult.

Australia, New Zealand and the USA have the highest priced skin values, because they have

the best skins. It was not uncommon to see lambs ready for slaughter in the UK with brands

on the backs of the lambs that were not scourable. Most lambs slaughtered in New Zealand

through the winter period either undergo a complete high-pressure wash or a belly wash if

they are not too dirty, and are then stood to dry before slaughter.

Recommendation: That the Australian industry increases it's funding in shearer and shed staff

training to relieve some pressure on finding labour in future.

**Scrapie** 

With food safety being a major concern for consumers and growers, the UK government has

put in place a scheme called the National Scrapie Plan (NSP), to be proactive against possible

findings that Bovine Spongiform Encephalopathy (BSE) and Scrapie are linked. So far, there

is no scientific evidence to support this.

The scheme involves the blood testing of all rams for a specific gene, the Prion Protein (PrP)

gene. All rams are implanted with an electronic identification device – a rumen bolus. This

bolus has a unique number, which can be scanned with the appropriate equipment. Rams are

graded from type 1 (high) to type 5 (low). Low-resistance rams must be castrated or

slaughtered 90 days from being issued with a Slaughter or Castration form, and over time

only rams with the highest resistance will be able to be used (Fig 5).

The program is voluntary and all testing, electronic identification (EID) and certification is paid for by the government. Uptake by pedigree producers has been high.

The USA and Canada both have voluntary schemes in place that are funded by government. In Alberta, Canada, all sheep aged over 12 months that die on-farm must have their heads submitted for testing. If this is achieved and an enrolment form signed, they can have all their adult sheep genotyped for Scrapie resistance, provided they individually identify all sheep and maintain records to identify parentage with single sire matings.

Scrapie testing is free for 10 animals in the US. If Scrapie is found, whole flock testing takes place.

Australia and NZ are free from Scrapie. Passive surveillance testing of 400 brains is carried out annually in both countries with very little knowledge of the Scrapie genotype as limited testing is done in pedigree or stud sheep. The cost of the NSP in the UK in the first three years since inception has been 19 million pounds.

Fig 5

#### NSP RAM GENOTYPING SCHEME CONSEQUENCES TABLE

		Certificate?		
Genotype	Туре	Male Female	Restrictions (males only)	
ARR / ARR	1	1 1		
ARR / AHQ		1 1	No restrictions annly	
ARR / ARH	2	1 1	No restrictions apply	
ARR / ARQ		1 1		
AHQ / AHQ		1 -	Sale and breeding restrictions for Type 3 rams no	
AHQ / ARH		<b>/</b> -	longer apply.	
AHQ / ARQ	3	V -	However, these restrictions will still be displayed in any	
ARH / ARH		V -	Genotype Results Summaries (NSP 11) and Genotype	
ARH / ARQ	1	V -	Certificates (NSP 4) issued until IT changes have been	
ARQ / ARQ		V -	implemented.	
ARR / VRQ	4	× -		
AHQ / VRQ		× -	Immediate restriction on sale, transfer or breeding.	
ARH / VRQ	5	× -	Slaughter or Castration Form (NSP7) issued immediately.	
ARQ / VRQ		× -	Slaughter or castration required within 90 days.	
VRQ / VRQ		× -		

Key	1	NSP Genotype Certificate (NSP4) issued	
	×	Slaughter or Castration Form (NSP7) issued immediately	
	-	No Certificate issued/ no action required	

This table is subject to continuous scientific review

### **Protected Geographical Indications**

The European Parliament has implemented Protected Geographical Indications, which are areas of geographical production protected from name usage by any other producers or countries. Both Wales and Scotland have PGI status on their lamb (Welsh Lamb) and beef (Scotch Beef). These are then used as marketing tools as these brands and are very well known. England did not acquire this status as it was perceived that it did not have a geographical brand in place when the rules were introduced.

English Beef and Lamb Executive (EBLEX), has since put in place a brand for English lamb and beef that has so far been allowed by the EU.



# **Industry Background UK**

Lamb production in the UK is very intensive with more than 80 recognised breeds and very traditional husbandry practices. The breeds can be broken down to12-15 main lowland breeds and 4-5 main highland breeds. The main terminal sires are Suffolk, Texel and Charolais with the Blue Faced Leicester being the main long wool breed.

Change in the industry has been slow and the use of Estimated Breeding Values is still not widely understood by most producers. The change of policy by government through 2005 to pay subsidies through a Single Farm Payment instead of a per head payment will change the way producers view their industry. More emphasis will now be put on cost of production, genetic improvement and gaining a return from investment.

The UK industry has a strong basis, with government and industry funded bodies helping the industry. Meat and Livestock Commission (MLC) collects revenue on a UK basis and then distributes the funds to independent bodies within England (EBLEX), Wales (HCC), and Scotland (QMS) with total funding being 28 million pounds.

Supermarkets dominate meat retailing in the UK, the four largest being Tesco, Sainsburys, Asda and Somerfields. Aggressive marketing and procurement of lamb is putting pressure on butchers and farmers. While I was in the UK, Tesco posted a profit of more than two billion pound for the past 12 months. In the late 1970s there were more than 25,000 butcher shops in the UK, but in 2002 this number dipped below 8,000.

With the large population and difficulty in making a return without a point of difference, quite a few farmer-driven marketing avenues for lamb and red meat have opened up, far more so than in Australia. Being a net importer of lamb with a high population of 60 million, the marketing dynamics are different to Australia's export-orientated market.

These include: 1/ Direct to abattoir 5/ Organic brands

2/ Auction sales 6/ Mail order

3/ Direct box marketing 7/ Internet sales

4/ Farm shops 8/ Farmers markets

In Australia, most lamb is marketed either direct to processor or auction market with little cooperation between growers in marketing.

There is also good support for lamb and beef marketing through EBLEX with the "Tuck In" promotion started in Autumn 2003 and the 'Beefy and Lamby' commercials released in March 2005.

# Quality Assurance in the UK







The three schemes in place in the UK have a high acceptance rate by producers.

English Beef and Lamb Executive (EBLEX) HCC (Wales) and Quality Meat Scotland (QMS) run the following programs:-

1/ Farm Assured British Beef and Lamb (FABBL)

2/ Farm Assured Welsh Livestock (FAWL)

3/ Quality Meat Scotland Assurance Schemes (QMSAS)

Animal welfare is a big issue in the UK. All Quality Assurance schemes are built around framework to ensure animal welfare standards are high. The environment also features strongly in any policy coming from government or industry.

The sale of livestock outside of these Quality Assurance programs is becoming increasingly difficult. An example of one of the schemes follows.

#### Welsh Beef and Lamb Promotions

A Co-op encompassing 7000 farmers and 75% of the Welsh sheep flock is funded by a perhead levy. Membership of 85 pounds entitles the grower to an on-farm assurance audit.

Its main charter is to oversee Quality Assurance on-farm. Farm Assured Welsh Livestock (FAWL) has a producer manual that is updated every two years, and covers 75% of the Welsh sheep flock. The scheme has standards that must be reached and maintained in the following areas.

1/-Identification and traceability

2/-Farm animal management, husbandry and welfare

3/-Environment

4/-Feed composition, storage and use

5/-On farm feeding or mixing

6/-Housing and handling facilities

7/-Medicines, Animal health and Veterinary treatments

8/-Transport and livestock vehicles

9/-Biosecurity

Welsh Beef and Lamb Promotions CEO Moss Jones says farm assurance is "a bit like air conditioning – you only miss it when it is not working".

Quality Welsh Food Certification Ltd monitors the FAWL program to standards set by the EU (European Standard EN45011).

This scheme is very similar to the Australian Flockcare. Australia's Chemcert guidelines are ahead of the UK standards in storage and drum disposal. Most of the guidelines from the Department of Environment, Food and Rural Affairs (DEFRA) would be tighter in each section, for example castration and tailing could only be carried out within seven days from birth on lambs, if over this age, anaesthetic must be used and only a vet can do the castration if lambs are three months old.

### **Case Studies**

### **Graig Farm Producers**

I visited Nuffield Scholar Nigel Elgar, who manages an Upland Wales farm involved in organic production.

Nigel is a director of Graig Farm Producers Pty Ltd. It specialises in organising sales for 200 members at a cost of 35 pounds/year/member. It also sources large orders of tags, fertilizer, seed, cereals and feed for members at lower cost, and has an annual turnover of 3 million pounds, giving a return to members based on kilograms of meat traded for the year.

Graig Farm Producers charges 2% commission to the member and 2% to the processor and because most works contract kill, the group chooses the closest kill point to deliver to. About 70% of the lamb goes through Sainsbury's supermarkets sold under the Graig Farm Producers brand. A separate company called Graig Farm Organics also sells lamb in its own shop. Turnover ranges from 30,000-35,000 head per year, with all lambs sourced in Wales. The lambs are produced to a defined standard for organic food and are fully traceable by batch to the farm of origin. All chemical use is minimised and GM feeds are prohibited from use. Graig Farm Producers employs a full-time manager and an administrative officer three days per week.

This operation appeared to run very well with a good rapport with the processors. It was interesting to note the use of supplying farm inputs to encourage more farmers to become members. With the return of a dividend per kilogram of meat traded and the likelihood of lower prices for inputs, it is easy to keep the membership base.

#### **Dolaucothi Estate**

In the Cothi valley, located in the Cambrian Mountains in the heart of Wales, a group of eight tenant farmers have banded together to sell to a local abattoir. Oriel Jones and Son then process the lambs and supply Sainsbury's, who in turn sells the lamb as a branded product.

All the farmers involved are tenant farmers of the National Trust and are Farm Assured Welsh Lamb (FAWL)-registered. In talking to plan instigator Hugh Davis, he intimated that they were getting a useful premium per kilogram for their lamb. They supply for three months of the year from September through till the end of November on a weekly number contract of 250 per week with a variance of about 30 per week.

This operation was simple and effective for those involved the supermarket liked the concept of being able to tell a story with the product and sell a clean and green image, along with the concept of the farmers taking good care of their stock and managing the land.

Farm House Lamb

Rebecca Moore a Nuffield scholar of West Sussex was the facilitator of a branded lamb

product Farm House Lamb in the region south of London. At its peak Farm House Lamb

handled 60,000 lambs annually, selling through Waitrose supermarkets. All products were

traceable as each lamb was individually tagged and recorded. This arrangement ceased when

negotiations with the abattoir broke down.

South Down Lamb

South Down Lamb was created from a government grant matched by landowners in the South

Downs area of West Sussex. It was instigated to keep the traditional look of the area

preserved for example South Down sheep in the rolling hills of West Sussex. Seventeen

farmers were involved with full carcasses going through to butchers at a premium of around 5

pound/head. The group held training days for the producers to create better selection of lambs.

Processor and delivery problems were starting to emerge with the geographical area a

constraint to lamb supply.

**South West Quality Meat** 

Elizabeth Bowles managed South West Quality Meat from when it was launched in June 2000

to when it ceased to trade in July 2001. The company was formed with the aid of input from

three member groups representing more than 300 farmers and government funds.

These groups are: 1/ Cornish Quality Livestock Producers Ltd

2/ Wessex Quality Meat Producers Ltd

3/ Bodmin Moor Farmers Club

The key objectives of the company were to deliver best eating quality every time, to develop a

strong regional brand identity and to value add for the producer.

Liz said the main reason for failure was that the processor did not have the same philosophy

as the grower groups. She also thought that the brand needed to represent all meats to give it

credibility, and that the producers involved needed to have a larger sense of financial

ownership.

Other problems were that 60% of the cattle offered were dairy-based breeds which created

quality issues, and the product range also needed to be more innovative. The group did not

have a good financial return.

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**Well Hung and Tender** 

Although not lamb, this example of marketing was at the cutting edge and proving very

successful.

"Well Hung and Tender" was a brand conceived by Don and Sarah McPherson, to value add

and sell their home grown Aberdeen Angus beef. After Don completed his Nuffield

Scholarship on beef eating quality in 2002, he realised the only way for him to serve

consistent eating quality was to extend the maturation length to a minimum of 24 days in the

chiller. The stock was then prepared locally for sale, targeted at the upper end of the price

bracket at Farmers Markets in and around Edinburgh, which were usually held over the

weekend. A chiller van was used to transport all the equipment and meat, and labour was

hired as required.

Apart from fresh meat sales, they served hot barbecue burgers using unsold meat from

previous markets, utilising whole carcass and limiting wastage. Customers were attracted to

the wonderful aromas coming from these stands.

Sale of burgers now makes up at least half the income from the business. The husband and

wife team often attend two markets on the same day.

When I visited this business they had attended three markets over the weekend and grossed

more than 5,000 pounds. Many customers were repeat buyers and although Don could sell ice

to the Eskimos, his consistent, quality product sold itself.

Secrets to success

1. Sale of whole carcasses through the burger trade.

2. Working while the most people were relaxing.

3. Consistent eating quality for repeat custom.

4. Future planning to grow the business, looking at franchise, and buying in cattle rather

than producing them all himself.

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**Conclusions** 

1. Quality Assurance is here to stay so the quicker producers get on board, the easier it

will be.

2. Food safety and confidence in labelling is high on UK consumers minds.

3. UK consumers like a connection to agriculture when they purchase food, for example

farmers markets, direct box marketing, and farm shops.

**Industry Background Canada** 

Sheep farming in Canada is a small industry. With only 1 million sheep the flocks are small

averaging 75 head. Nearly all lambs are finished on grain. The flock is probably under

reported as many lambs are sold as freezer lambs, for example killed in an inspected works

then taken home by the owner to on-sell. One property I visited sold 30% of lambs this way.

The producer was well paid (\$160 CAN for an 18 kilogram carcase). Shearing costs were

about \$3/head if enough numbers were offered. All ewes lambed indoors for at least a short

period with most lambs born between January and July. People involved in the industry are

optimistic and very enthusiastic with the high prices being paid. The winter conditions in

Canada are not ideal for broadacre sheep production with all sheep being housed through the

coldest periods, making it difficult for the industry to grow too large.

Only 50% of sheep and lamb consumption is produced in Alberta the rest being imported. The

largest producers of sheep are Hutterite colonies which are communal farming structures

based around a religious background

The Canadian sheep industry is well serviced by producer funded bodies in each province. I

visited Alberta Sheep and Wool Commission in Airdrie and found that there were good

programs in place for both sheep identification (Canadian Sheep ID scheme) and Quality

Assurance (Canadian Food Safe program). The downside I found was the inability of the

provinces to pool funds and work together for a common goal in promoting sheep and lamb

meat consumption.

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Case Study

Sunterra Farms

This is a family owned business specialising in pork, veal and lamb. The Price family has

owned Sunterra Farms for three generations, developing their business on the strength of

growing, processing and marketing these meats. A true example of vertical integration, the

family believes that by owning and controlling each aspect of the production chain customers

needs can be most consistently met.

With more than 800 staff employees throughout the operation, it is a corporate affair from the

farms producing hogs, cattle and lamb, two federally inspected meatworks and Sunterra

Market shops in Calgary and Edmonton, Sunterra Farms produces and markets meat and other

produce, locally and to the world.

I visited the meat processing plant at Innisfail and spoke with the plant manager Miles Kliner.

Sunterra Farms set up the "Canada's Freshest" brand in the early 1990s, with 98% of lamb

processed and sold in eastern Canada under that brand. The group kills about 1500 lambs per

week, with short periods filled with lambs from their own feedlot (10,000 head capacity).

Miles suggested that supply and carcase consistency were major problems, partly caused by

90% of ewes lambing in the spring resulting in tight supply from February to April. Sunterra

Farms also offers a feed on contract, where producers are guaranteed a price to have their

stock fed through Sunterra's feedlot while paying for the feeding to help secure lambs.

The major control Sunterra has over supply and demand is that it only ever sells product pre-

slaughter so that all processed produce has a home to go to. This means that marketing drives

the business, and also helps to maintain good prices.

A premium grid pricing structure is used to purchase lambs. This grid is based on the

parameters of Sunterra Farms pork grid, and uses three elements to calculate the final price.

1/ Fat cover:

The GR (Grade Rule) measurement is the total fat tissue depth of the

site over the 12<sup>th</sup> rib, 11 centimetres from the backbone.

2/ Muscle Score: The average of three subjective muscle grades (leg, back and shoulder)

out of a score of 1-5 with 5 being the best.

3/ Weight: Target weight 45- 56 pounds with premiums to 60 pound.

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The payment calculation is then: Base Price x Grade Index x Weight Index, with the Grade

Index weighted toward highly-muscled, leaner carcases.

Sunterra Farms, in conjunction with Alberta Sheep and Wool Council has invested in a Sire

referencing scheme that has been running for two years to identify best genetics. It has

involved producers following lambs through the works and also trains producers with best

practice production methods to get the most out of their enterprise.

**Industry Background USA** 

The lamb industry in the US has shrunk to a level where most producers still involved are

committed to the industry. It is hard to believe that after World War II, there were 56 million

head of sheep in the USA. The emphasis then was on wool production with lamb as a by-

product to wool. With the downturn of the wool industry since the mid 1960s the flock

numbers have also dipped despite government intervention. The demise of the wool tariff

scheme in the early 1990s, where tariffs on imported wools were passed back to US growers,

led to producer returns plummeting and sheep numbers falling rapidly. The decline in wool

mirrored the decline in lamb and mutton consumption with a drop from 4.5 pounds per capita

in 1960 to 1.1 pounds at present.

As the consumer is perceived to like big servings, the carcass weight on lambs killed is indeed

heavier than we see here in Australia. A lightweight lamb is 25 kilograms dressed and a

heavyweight 38 kilograms. Raising the carcase weight was also seen as a way to increase

production from the falling number of ewes. Not all consumers or meat fabricators like the

big cuts, the long legs are hard to sell but of course racks and loins are easy. The larger

carcase weights have also added to the problems of lambs being over-fat at slaughter with

little genetic gain made since weights were increased.

There are only five major slaughter houses left in the US with the possibility of more

rationalisation in future if the flock continues to decline. Lamb is defined in the US by the

break joint in the front leg, for example if the joint comes away as a clean break it is defined

as a lamb, if the joint breaks it is a hogget. This roughly lines up with dentition and cutting

teeth but tends to let them get to heavier weights.

In the eastern states, lambs tend to be killed at lighter weights. Nearly all lambs are finished

on grain some in custom feedlots and some by the owners.

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The oversupply in kill space as numbers have declined has made it easier to set up co-ops as

they have strong bargaining power.

There is no national Quality Assurance scheme in the US. Producers in the mountain states

have major problems with predation, as bears, mountain lions, wolves and coyotes often

attack and kill sheep. The poison 1080 was banned in the US in the early 1980s and since that

time wolves and especially coyotes have increased in numbers and become a huge problem.

Some restitution can be sought through the government agencies if a kill can be proved and

the animal inspected. A mountain lion kill returns at 3 to 1 and a bear at 1 to 1. No payments

are made for coyote kills, for example a sheep killed by a mountain lion would have the

owner compensated for three sheep.

Anecdotal evidence puts the sheep and lamb losses to predation as high as 10% in some areas.

**Case Studies** 

Mountain States Lamb - Wyoming USA

History

This is a producer Co-operative founded in 2001 consisting of 129 members, and based in

Douglas, in the heart of Wyoming. Mountain States Lamb was originally set up out of

frustration from lack of marketing opportunities and uneven consistency of product, coupled

with low prices. It drew members from numerous states in the USA. The Co-op gained

momentum with the purchase of a 50% stake in B Rosen and Son, a meat fabricator (packing)

and Distribution Company in the north eastern states, based in New York.

Structure

Mountain States Rosen markets 20-30% through put of all lamb produced in the USA.

Mountain States Lamb supplies about 40% of this quantity, sourcing up to 5000 lambs per

week from members.

Share ownership entitles members to deliver one lamb for every share over a 12-month

period. If under delivery takes place, a penalty is applied.

Graham Clothier

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Mountain States Rosen is developing new markets in pre-packaged and food industry

products. It is also focusing on cultural markets Halal (Muslim) and Kosher (Jewish). The

Kosher market is especially treasured as its focus is on the whole fore-quarter, a cut which is

sometimes more difficult to trade.

Markets for all natural lamb (antibiotic and hormone free) are growing and currently make up

20% of the co-operative's kill. Producers gain a 3cent per pound premium for natural lamb

and sign a declaration stating that no antibiotics or hormones have been used. The remainder

comprises regular lamb.

Lambs are purchased by Mountain States Lamb on a grid system which offers premiums and

discounts. A variety of weights are desirable for fabrication to supply the needs of numerous

customers. Mountain States Lamb producers acquire an offal credit of about 75 cents per head

and are paid for the pelt. Producers pay Mountain States Lamb a \$1US marketing levy, freight

to the fabricating plant and a kill fee of \$8.40 US.

Conclusions

Mountain States Lamb Co-operative has been very successful

1/- Producers have a consistent sale avenue

2/- Producer returns have increased via direct vertical integration as they receive a

dividend from Mountain States Rosen via the co-op.

3/- Due to the existence of co-ops such as Mountain States Lamb there has been

stabilisation of the US flock.

4/- Australia has lifted exports to the USA through the decline in the US industry.

With only 3-4 million lambs killed in the USA per year, this represents an ideal opportunity

for Australian lamb to boost consumption in the US.

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**Prairie Lamb Co-op** 

Prairie Lamb Co-op was established in 1994 by seven Minnesota lamb producing families. In

the face of a rapidly expanding lamb import market, these producers could see a bleak future

in the lamb industry unless they tried something different. They decided to try to market

differentiated and creative lamb products as a Co-op.

The goal was to bring to the retail market a range of lamb products that had never been

available to mainstream American consumers.

The Co-op spent time over a period of five years undertaking surveys, taste tests in

restaurants, and visiting processors of frozen oven ready meals, to come up with five new pre

packed meals including 1/ Lamb Rogan Josh

2/ Lamb and Apricot Tagine

3/ Chicken Lajawab

As above, not all were lamb meals. The Co-op wanted to create a brand that would be

recognisable and entice new lamb consumers to try lamb and other meats under their brand,

which provided "authentic, exotic, ethnic meat dishes".

The Co-op aimed to start at 350 lambs per month growing to 1000 per month over time with

their target markets being hot food counters in supermarkets, delicatessens, malls and airline

catering services.

With a lot of hard work and thought put into this venture the final stage came to undertake an

equity drive among Minnesota lamb producers. The drive failed due to producer apathy and

the Co-op was disbanded.

**Conclusions** 

1/ Most farmers are reluctant to be involved in group marketing as they are fiercely

independent.

2/ Basing a venture on new consumers with new products can be very challenging.

**Graham Clothier** 

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**Industry Background - New Zealand** 

The sheep industry in New Zealand has undergone major change in the past 20 years coming

from an era of industry subsidies and many different industry bodies, to being directed by just

two groups with no subsidies. Meat and Wool New Zealand collects all levies from sheep,

wool, beef and goats, and runs on an operating expenditure of \$37.3 million. The Meat Board

oversees the quotas to the European Union.

With 90% of sheep and lamb meat exported, NZ is extremely focussed on exports. Because of

New Zealand's clean and green image producers do not grain finish their lambs. With higher

returns on exports to the UK and France, a larger emphasis is put on these markets than the

US. New Zealand has a quota of lamb and sheep meat into the EU of 226,000 tonnes

compared with Australia at 18,650 tonnes. (Argentina has a quota of 23,000 tonnes). The

distance to the EU markets is seen as a positive, as eating quality improves while the fresh

product matures on route.

The climate and conditions in NZ are very good for sheep, with the high country suiting fine

wool Merinos and the lower country better for crossbreds and lamb production. Lamb turn-off

is reasonably stable on the North Island all year with the South Island having a huge turn-off

spike at the end of spring. Grazing systems are intense with many sheep through winter creep

grazed with electric fencing on crop (Kale or green feed oats) or pasture to maintain

bodyweight through winter enabling large mobs of sheep to be run on small areas. Monitoring

of pastures and inputs is more intense than in Australia. Many sheep pastures are run as

efficiently as dairies.

With the wet winters, lambs to be slaughtered are high pressure washed to remove mud, and

stood to dry. All lamb abattoirs in New Zealand are fitted with electrical stimulators to ensure

consistency of eating quality.

There are several large meat companies in New Zealand with two groups- Primary Producers

Cooperative Society (PPCS/Richmond) and Alliance group-processing about 15 million of the

24 million lambs killed each year. The largest works capable of 32,000 lambs/day at peak.

Sheep numbers in New Zealand have declined from a peak of 70 million in the early 1980s to

36 million at present, with productivity improvements in the past 20 years proving beneficial

to the industry.

**Graham Clothier** 

Lamb Production Marketing and Quality Assurance Sponsored by: Meat and Livestock Australia

	1990-1991	2004-2005
Lambing %	101.6	123.2
Ave lamb wt in kg	14.35	17.14
Lamb sold kg/ewe	9.76	15.8

Source: Meat and Wool New Zealand

\*This equates to 12% more lambs from 31% fewer ewes

Current returns for producers are profitable and the industry appears strong and viable. The only negative element I found was the shortage of labour, both on-farm and for the abattoirs. New Zealand has done a superb job of creating a clean and green image in the UK and Canada through industry marketing campaigns.

### Case Studies- New Zealand Producer Co-operatives

Co-operatives have been a successful tool for New Zealand producers. Many younger producers do not appreciate their situation having strong processing and marketing institutions owned by producers.

#### **Alliance Group**

In the early 1960s a group of farmers applied to the New Zealand Meat Board for a licence to build an abattoir because they were frustrated at the lack of available marketing opportunities. They built the Lornville Plant with a full capacity of 32,000 head/day. They now run seven works which are all on the South Island. Alliance has Co-op members from whom it sources stock. Payment for lambs is made in several different ways

- Pool- 90% up front, then delayed distribution payment
- Per kilo
- Per head (This method is used the least)

Alliance has in place its own Quality Assurance scheme (similar to Flockcare) which is audited by drafters. The Quality Assurance program started in October 1997 and has four main focuses:

1. Animal welfare- five freedoms

2. Food Safety- health, hygiene, residues

3. Management recording systems

4. Audits

It also has sheep presentation standards and will only accept lambs of A or B presentation (clean or crutched) following major issues with stock not crutched and presented in dirty condition. Each lot of stock must present with a declaration form and no grain fed lambs are accepted.

The Co-op has markets throughout the world from Marks and Spencer in the UK to varied markets in Europe and USA.

Murray Taggart, Director on the board of Alliance Group stated that

1. "The meat industry is one of the few industries where you need to compete in two markets - procurement and sales"

2. "Tension for procurement is high as two more killing works have been added and the number of lambs and stock available has fallen"

#### PPCS/Richmond

Slogan – "Suppliers of quality to the world"

PPCS/Richmond is New Zealand's largest meat marketing company, exporting to more than 60 countries. It is involved in sheep meat, lamb, venison and beef turning over \$2 billion annually including about 37% of New Zealand sheep meat exports. The company is owned by 9000 farmer members, with 26 processing plants employing 8000 staff during peak season. Farmer representatives are elected to the board of directors, with the board made up of 12 directors – two independent and 10 shareholder representatives, with a rotating two year term.

Farm assurance programs, of which 70% of suppliers are involved, are the platform which provides full traceability on carcases and batch traceability on meat cuts. These schemes, again, are very similar to Flockcare and encompass fencing, yarding, livestock handling processes and record keeping. PPCS has been working on a DNA traceback scheme for six years and is nearly at their target point of being able to test 10 lambs/minute at a cost of 10cents/lamb. A shortage of boning staff has intensified the development of robotic boning, and PPCS is currently at the level of 20 legs per minute with minimal labour input.

The Co-op runs pools and pays 90% in three days, the balance paid within three months. It

then also returns a dividend, one third of which can go to purchase more shares and two thirds

returned as cash. The cap on share ownership currently sits at 17,500 shares, and with a profit

of \$60 million last financial year, \$40 million was returned to members.

Regular communication from the board to members is achieved using roadshows up to three

times per year. Loyal members are rewarded with kill space at difficult times especially with

deer, as deer kills are currently at record levels with most producers reducing their herd

numbers.

The Co-op is throughput driven, employing 100 company field representatives to source

livestock all over New Zealand. A weekly price schedule is produced with suppliers having

the choice of schedule, schedule plus rebate, per kilogram, per head or contracts, giving the

producer a wide range of choice.

Both entities, even though in competition for procurement of stock and market share, have

been great vehicles for New Zealand producers to be a part of putting competition, reliability

of market options, and pricing into the industry.

**Conclusions** 

1. Co-operatives have serviced the New Zealand sheep industry well, and have been set

up in tough times making it appealing for producers to join.

2. Co-operatives in the current economic climate are more difficult to setup.

3. Quality Assurance underpins both Co-ops philosophies.

4. Long-term marketing push by industry of "clean and green" image has worked very

well.

Graham Clothier

Lamb Production Marketing and Quality Assurance Sponsored by: Meat and Livestock Australia

**Industry Background Western Australia** 

Western Australia was very different to any other sheep production area I visited it has an

undersupply of kill space. Lambs have to be booked in 12 months ahead with 3 to 5 million

being shipped off in the live sheep trade when operating.

Merinos are commonly used for meat and especially as lamb, with most farms that run sheep

also finishing some lambs through a feedlot system. This helps continuity of supply

throughout the year and makes marketing a lot easier and prices more even, instead of a huge

spring glut and associated low prices.

There are six main abattoirs in Western Australia, all south of the latitude of Narrogin in

southern WA.

The Western Australian Meat Marketing Commission used to have the power of acquisition

on every lamb slaughtered and exported in WA. For this, the processor paid a levy to the WA

Government run Commission anywhere between \$6 and \$14 which was designed to return a

payment to producers. This commission has now been abandoned

Case Study

WA Q Lamb- Western Australia

**History** 

Q Lamb was established in September 1995 at Narrogin Western Australia, by Alan Jarman

former Lambplan consultant for WA. He and a group of producers, including Hillside Meats

owner, Peter Treford, started an alliance to reduce the spring glut/ low price, late winter/high

price regime.

Annual throughput started at 4500 lambs in 1996-1997 to 178,000 lambs in 2003-2004.

Currently lambs are booked in for kill space before the start of the lamb year (August 30<sup>th</sup> /

September 1<sup>st</sup>) with bookings completed by the August 1st for the full 12 months ahead.

**Graham Clothier** 

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#### Structure

Q Lamb is managed as an incorporated body and is a non profit organisation with a 215 closed member base.

The alliance WA Q Lamb owns the trade-mark as Q lamb, and has registered its trademark (logo) in five countries. All lambs are processed at Hillside Meats with Action Supermarkets being the sole WA supermarket retail outlet. Their aim is to put through 25% of total lamb throughput into Action Supermarkets. Hillside, through Q Lamb, also has overseas markets in Singapore, Japan, Mauritius, Thailand, Hong Kong, Mexico, Sri Lanka and Vietnam. Thai Air also serves WA Q Lamb.

To keep Q Lamb operational for each member's slaughtered lamb, 50 cents is collected from both the producer and processor which funds the office and salaries.

Communication with members is maintained via a monthly newsletter which reports on current issues.

In 2004 a 10c/kg premium was instigated for any producer who was Flockcare accredited with 45% of members now in the scheme, delivering 70% of total production. The aim is to have all members accredited by October 2007.

Each individual lamb is weighed and fat scored before slaughter, with both first cross and Merino lambs accepted. All Merino lambs must be finished on a hard ration (pellets or grain) for at least 24 days.

Q Lamb has developed a tight specification grid resulting in 97% of lambs now reaching the target. These lambs have 6-15millimetres of fat at the GR site and in the 17–24 kilograms dressed weight range. This has been achieved through education and field days to teach growers the type of lambs consumers want and, more importantly, how to select them.

On viewing the quality of product in three major supermarkets it was evident that the tight specifications set enabled the end product viewed in the Action Supermarkets to be very even and well presented. The wide choice in competing meat products does not allow any room for poor quality lamb to be sold. As Q Lambs procurement officer Reg Crabb says "you can only trim off so much fat and maintain integrity of the product".

#### Conclusions

- 1/- Selecting the appropriate partners is crucial to success in a branded product.
- 2/- Tight specifications ensure a consistent, marketable and saleable product
- 3/- Quality Assurance is vital to have a stand alone, successful branded product
- 4/- Year round supply is the key to success of branded products.

**Summary** 

From my travels I conclude that the sheep industries in the countries I visited share many

similar issues. Uptake of breeding for performance to enhance the whole industry using

Estimated Breeding Values (EBV's) is slow to take hold. Producers tend to look at the short-

term view instead of long-term for industry benefit. We must remember that the Australian

industry is small in global terms, so any tools that can increase productivity must be used to

ensure the survival of sheep farming. Fat is a major issue to processors and end users. It

amazed me that the British could still afford to eat lamb.

Consumers do not owe lamb producers a living. We must produce a product that is affordable

and of high quality (more meat, less fat) with confidence from the consumer in food safety,

therefore involving Quality Assurance.

In closing I also found that:

1. Any lamb producer can value add to their bottom line by being a member of a group or

organisation that holds ownership further down the marketing chain.

2. To be successful, this group or organisation must:

a. Have year-round supply.

b. Deliver quality with integrity.

c. Have the ability to adapt and change.

d. Use continuous innovation and improvement.

e. Target niche, not commodity, markets.

f. Establish full Quality Assurance over time.

g. Ensure the business grows.

h. Ensure the producers have a sense of ownership

3. Quality is defined as 6-15millimetres of fat at the GR site.

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