

Animal Disease Feedback –

The next big opportunity for the supply chain

1. Is it an opportunity?
2. What are the challenges?
3. How to make it happen?



1. Is it an opportunity?

- 1.1 Hydatids case study
- 1.2 Liver fluke case study
- 1.3 SA sheep industry

1. One establishment, one condition

Processor \$450,000

Offal condemnation

Producers \$1,200,000

Reduced body weight
(16.8kg/head)

Hydatids - \$1.7
million/year for one
processor



This is a big opportunity for the supply chain

1. Different condition, different establishment

Grain	Grass	Total
\$204,482.20	\$244,826.40	\$449,308.60

Cost of offal condemnation to
processor for 3 month
\$649,840.33

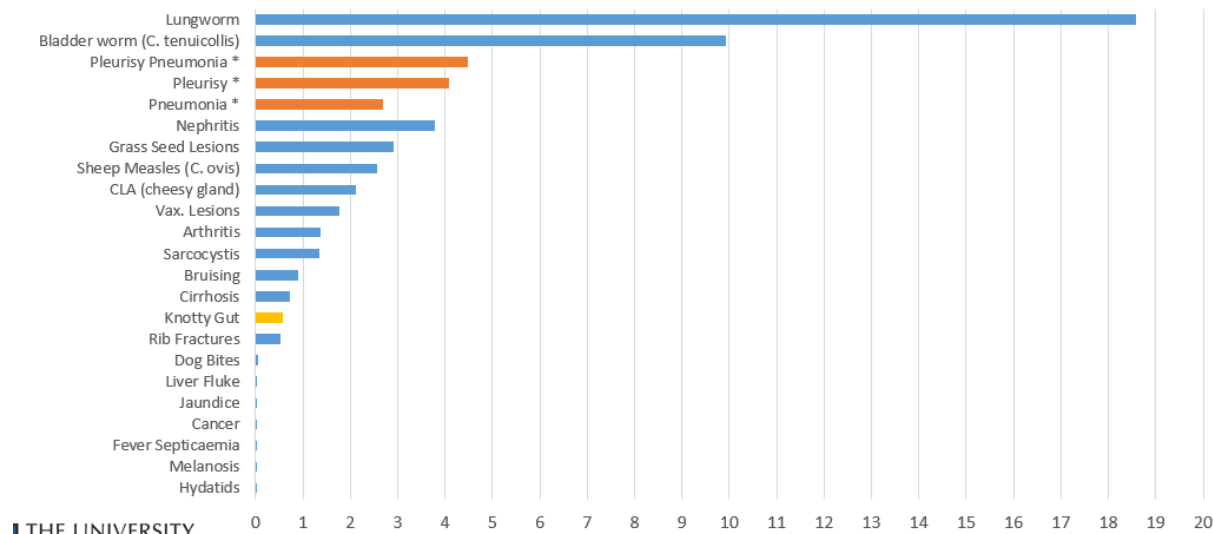
Cost to
producers
supplying to
one processor
over 3 month
due to liver
fluke



This is a big opportunity for the supply chain

1. What's happening in Sheep

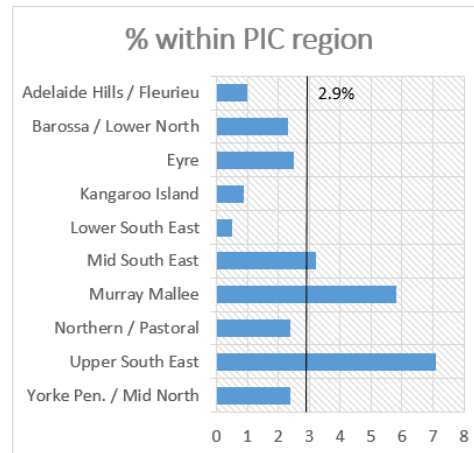
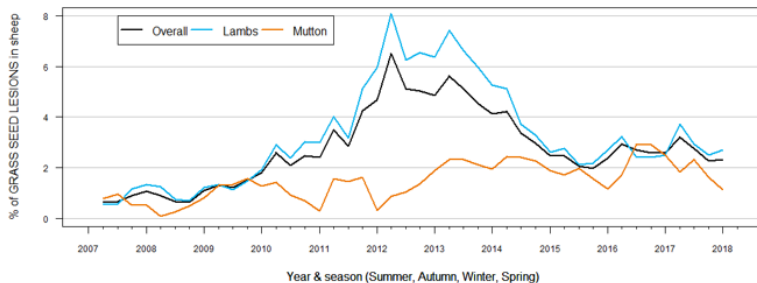
Prevalence of diseases and conditions in sheep, 2007 to 2018



Courtesy of the University of Adelaide , generated using data collected under SA's Enhanced Abattoir Surveillance Program

1. What's happening in Sheep

Grass seed lesions



Courtesy of the University of Adelaide, generated using data collected under SA's Enhanced Abattoir Surveillance Program

This is a huge opportunity

- Animal disease conditions are costing processors and producers significant amounts. Providing feedback to producers improves herd health.

2. What are the challenges?

2.1 Accurate data and
validation

2.2 Standardisation

2.3 Meaningful reports

2. Issues for data accuracy

- 'If in doubt throw it out'
- Diagnostic inaccuracy
- Operating environment
- Chain speed



Wrong data is worse than no data

2. Standardization is critical



We have a draft recoding standard available now

2. Meaningful reporting



- What does the data actually tell you?
- What is a good result?
- When should action be taken?



Feedback needs to be provided in a way that it can be used.

There are challenges to be overcome

- Data must be collected against a standard, be validated as being accurate and be reported in a way that is meaningful

3. How to make it happen?

3.1 The right messages

3.2 What's available now?

3.3. What's coming?

3. Getting the messaging right

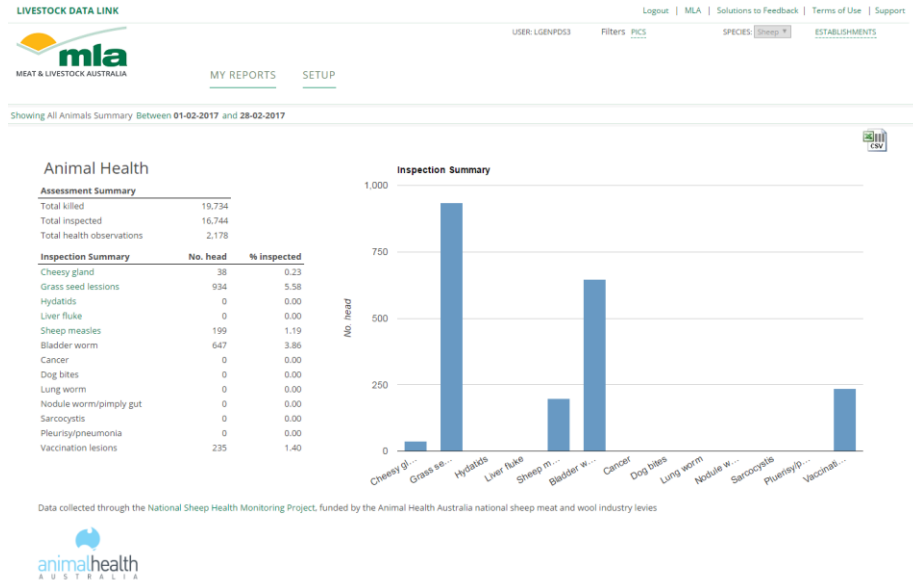
'Liver disease was found in 25% of your consignment.
Most producers like you have < 10%.

You MAY have a problem in your herd. CONSIDER investigating this further
with your vet'



Its critical to get the wording right

3. LDL – an example of what's available now



The National Sheep Health Monitoring Data is already available

3. LDL – links through to solutions to feedback

WEIGHT AND FAT
AGE/DENTITION
LEAN MEAT YIELD
HEALTH CONDITIONS
■ ARTHRITIS / POLYARTHRITIS
■ CHEESY GLAND (CLA - CASEOUS LYMPHADENTITIS)
■ GRASS SEED LESIONS
■ HYDATIDS
■ LIVER FLUKE
■ SHEEP MEASLES

Cheesy Gland (CLA - Caseous lymphadenitis)

General description

Cheesy Gland (also known as CLA) is a contagious bacterial disease causing lymph node abscesses in sheep and goats. It can have significant economic impact at slaughter through trimming of carcasses and carcass contamination. Where multiple abscesses are present, carcasses will be condemned.

On farm impacts can include reduced wool production and weight loss or reduced growth rates.

Cause

- A bacterial (*Corynebacterium pseudotuberculosis*) infection of sheep that causes abscesses in the lymph nodes and lungs.

Clinical signs

- Most sheep with cheesy gland will show no obvious signs but it is readily detected in the carcass after slaughter.
- Recently formed abscesses contain thick yellow-green pus.
- With time the pus dries out and the abscess looks like an onion with concentric layers of solid pus.
- The most common sites for abscesses are in the lymph nodes on the point of the shoulder, in the groin and in the lungs.

Diagnosis



Its important to show the producer what to do about a condition

3. Animal disease pilot studies

- 8 Health for Wealth pilot studies are shortly to commence

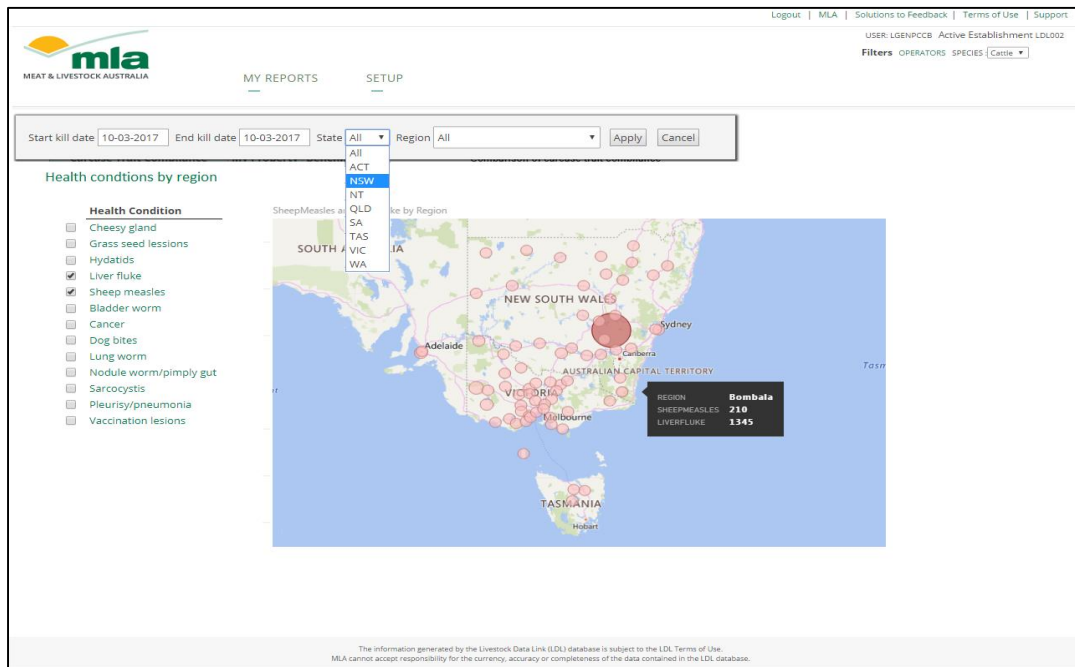


- LDL will have sheep and beef conditions flowing through by the end of the year
- Reports are currently being develop



Animal disease feedback is rapidly ramping up

3. More than just for individual producers



There is the opportunity to make the data relevant over and above when animals are consigned.

Making it happen

- The producer messaging is critical and there are systems rapidly ramping up

Animal Disease Feedback

It's a huge opportunity for the supply chain

The challenges are being overcome

There are systems coming soon for you

Improving supply chain profitability