HOW THE U.S. SHEEP INDUSTRY CAN USE EID IN THE NATIONAL SCRAPIE ERADICATION PROGRAM

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Minnesota
To determine how EID will be used

- Define
  - WHEN
  - WHERE
  - BY WHOM
  - WHAT DATA WILL BE CAPTURED
  - WHAT DATA WILL BE SENT
  - HOW WILL THIS DATA BE SENT
  - Industry-Regulatory Partnership

- The Answers will drive the development of technology
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- **Answers**
  - Sheep move
  - Xc state lines, shows, sales
  - Producer, staff
  - Premises/ID/owner/seller/buyer
  - The Cloud
  - Smart phone, tablet
  - Need $ to further develop practical ways
Most Common LOCATIONS

On farm
On ranch
On leased land, both public and private
Market place—whoa there are lots of scenarios here
In transit to harvest site
At harvest site
At Veterinary Diagnostic Lab
During veterinary visit- CVI, disease investigation, traceback, outbreak
At Exhibitions
At Sales
Markets

Collaborate with Cattle Industry

- Auction market
- Breeding stock sales-private & public
- Internet sales, primarily breeding and club lamb/kid sales & ‘pets’
- On farm, ethnic butcher market
- Harvest facility via contract
- Harvest Facility via open bidding purchases
- State-exempt harvest facility
USDA approves Shearwell SET tag!

The USDA has approved the Shearwell SET tag for its National Scrapie Eradication Program. This tag, with its 99.5% retention rate, is now approved as an official tag for use with sheep, goats, deer, elk, alpacas and llamas.

Now farmers in the US can also benefit from our SET tags, the best-selling sheep tags in Britain and Canada.

Available as official USDA tags in yellow, white, green, spearmint, orange, pink, purple, brown, grey, black and red. Management tags can be any of these colors with the additional option of blue.

1. Not all are currently approved as official USDA tags, yet.
2. Competition is good for improving technology and prices.
Benefits of EID

- Accurate identification of sheep
- Individual animal management
- Improve Productivity, meat, wool or milk
- Improve Reproduction
- Improve selection for parasite resistant sheep
- Realtime inventory
- Increased Efficiency at the farm, markets and packers incl more information back to producers
- Lower labor costs
In the UK, there are slaughter-only tags & breeding sheep tags & Red replacement tags (pink in AU)
Learning from other countries
There are producer-friendly tags and stick reader choices here and overseas

- Roxan strip tags applied more quickly because only have to reload every 10-20 tags
- Shearwell-may have larger market share, has a contract to develop better database with DEFRA (our USDA), sheep and people-friendly high performing tag
- PHASE IN PERIOD was helpful, how did they make the transition to EID mandatory via 1000 £ fines for non-compliance i.e. ENFORCEMENT
- Allflex wand reader works with both apple and android smart phone operating systems unlike some other manufacturers
- CANADA – tagging of sheep is good
- AUSTRALIA-EID tag subsidies, testimonials, stakeholder commitments but its an export based country regarding ovine products

Systems have phone/tablet apps to generate lists of scanned animals
In US we can scan as sheep leave the farm & make a list and email to where sheep are going
In Australia

- Breeder tags are applied on the property of birth before sheep or goats move to another property.

- Tags can be colour-coded by year of birth, in a rotating 8-year cycle, to enable visual age identification of animals at a distance. The colour for year of birth is not mandatory, but is strongly recommended.

- Post-breeder property tags are applied to sheep or goats no longer on their property of birth, or to introduced animals that have lost their original tag. Post-breeder property tags are always pink.
Electronic NLIS (Sheep & Goats)
Investing now, protecting tomorrow

- Victoria has valuable livestock industries, exporting products worth $6.7 billion per year, including sheep meat and wool products worth more than $2.5 billion.
- These industries are essential to our rural and regional communities. Their ongoing prosperity relies on effective traceability systems to underpin confidence in our products and maintain access to local and international markets.
- Victoria is the first state in Australia to introduce a mandatory electronic National Livestock Identification System (NLIS) across the sheep and goat supply chain.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
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<td>01 January 2022</td>
<td>All sheep leaving a Victorian property must be tagged.</td>
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Benefits of EID (from AU NLIS)

Accurate identification of sheep
Individual animal management
Wool flock
Meat flock
Optimizing meat and wool
Reproduction
Parasite control
Simple stocktake (realtime inventory)
Record anything
What EID isn't.
**Electronic NLIS (Sheep & Goats)**

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**Engagement**

- Victoria’s sheep and goat industries have played a significant and valuable role in shaping the electronic NLIS through extensive engagement and consultation along the entire supply chain.

**Achievements**

- New generation electronic identification technology is now commercially available, enabling industry to leverage the many productivity benefits of the system.

- All Victorian sheep processors now have infrastructure to meet mandatory requirements and from 31 December 2017 have been scanning electronically tagged sheep.

- All Victorian saleyards selling sheep have new infrastructure to meet mandatory requirements and since 31 March 2018 have been scanning electronically tagged sheep.

![Image of sheep being scanned](image-url)

- Over 5,600 have attended 124 workshops and information sessions.
Innovation
Investment in research and development and collaboration between industry, third party providers and government has resulted in the development of new and innovative software and equipment.

Saleyard Equipment
‘Next generation’ high flow readers are now available, leading to better scanning outcomes in saleyards. Saleyards and agents have been integral to the development of the “Hamilton” 3 way draft reader. These readers have been placed in all the major saleyards across Victoria.

Processor Technology
Research and development into noise mitigating readers continues to address the challenges of scanning in noisy environments.

Saleyard Software

Wireless Synchronisation
Multiple readers in yards can now operate in parallel without the need to be hard wired together, reducing installation costs and potential interference during scanning.

Saleyard/Agent Software Packages
Software packages have digitised the world of the stock agent, resulting in time savings in saleyards, back office efficiencies and the reduction in errors associated with paper based systems.

Processors
Processors now have the opportunity to provide producers with information on the quality of product and end users with information about the origin of their food.

Producers
Producers are using the technology to record and access detailed information about individual animals to improve flock management decisions.
How many subsidised tags can I buy?

Producers can buy up to 110 per cent of electronic tags purchased through Agriculture Victoria in 2018, to identify 2019 born lambs and kids.

The allocation to each producer will be based on the number of electronic tags purchased for a particular Property Identification Code (PIC) between 1 January 2018 and 31 December 2018, plus up to an additional 10 per cent. Orders will be automatically rounded up to the nearest 20.

As an example, a producer who purchased 500 electronic tags for 2018 born lambs and kids will be able to buy 560 electronic tags at the subsidised price.

To find out how many subsidised tags you can buy, log on to www.tags.agriculture.vic.gov.au.
Goats

Preserve currently approved methods during a transition period such as registered tattoos & microchips as without industry buy-in, there will be no useable traceability.
UK Goat Dairy 2019

Learn from others

(many goats can wear tags)
In Canada
Datamars HDX Legband
How to achieve Compliance

■ User friendly
■ Business benefits
■ Animal friendly
■ Flexible choices as not a one shoe fits all situations
■ Design for main scenarios
■ Tweak later
Challenges travelling along a road under construction

- Adoption—probably going to get one best chance to do it ‘right’
- Price—devices, applicator, reader, docking, interface with android & apple operating systems
- Equipment operating at speed of commerce reliably and affordably
- User friendly scanning and data transmission
- New regulations will be needed—how to make them the same for all states to avoid confusion
- Question for the State Veterinarians—what does getting a permit number achieve in your world, does it enhance the efficiency and accuracy of traceability?
Learning from other countries

https://www.youtube.com/watch?v=6BRCHZQTE38

https://www.youtube.com/watch?v=a4xP46b_-QA
Thanks