

2019 MI and QA Conference

EMERGENCY ANIMAL DISEASE (EAD)

PROJECT FOR DOMESTIC ABATTOIRS AND KNACKERIES

Lynne Crawford
Project Officer

EAD Domestic Project

Background

- Project funded by DAWR
- White Paper – Stronger Farmers, Stronger Economy
- Increase EAD preparedness

Objectives

- Engage
- Develop materials
- Increase information

Domestic Red Meat Industry

At a glance

\$11.3 billion in domestic sales

Beef: 8.8 billion (2018-2019)

Lamb: 2.5 billion (2018-2019)

Australians in 2018-19 ate (per person)

- 26kg of beef
- 8kg of lamb
- 0.3kg of mutton
- 24.2kg of pork



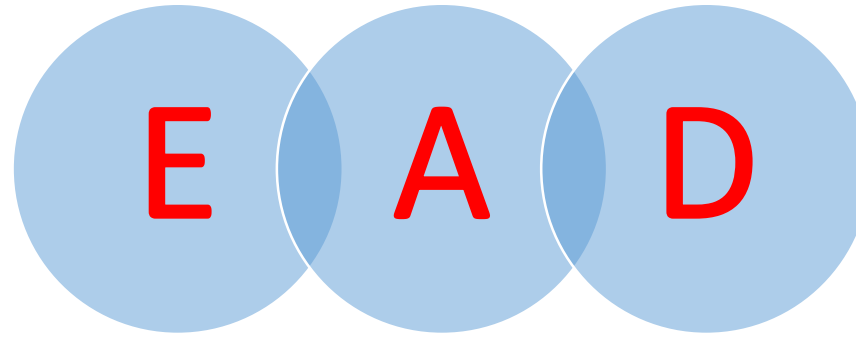
Domestic Premises In Australia

Main differences

- Number of premises
- Regulators - licencing
- Staff skillset
- Number of staff
- Number processed
- EAD preparedness



What is an Emergency Animal Disease (EAD)?



Note the E in EAD = Emergency (not Exotic)

Exotic Emergency Diseases = Not present in Australia

Endemic Emergency Diseases = Those present in Australia

Variation

Unknown/New

Serious Zoonotic Diseases



Image Credit: dermnetnz.org



Image Credit: thinglink.com

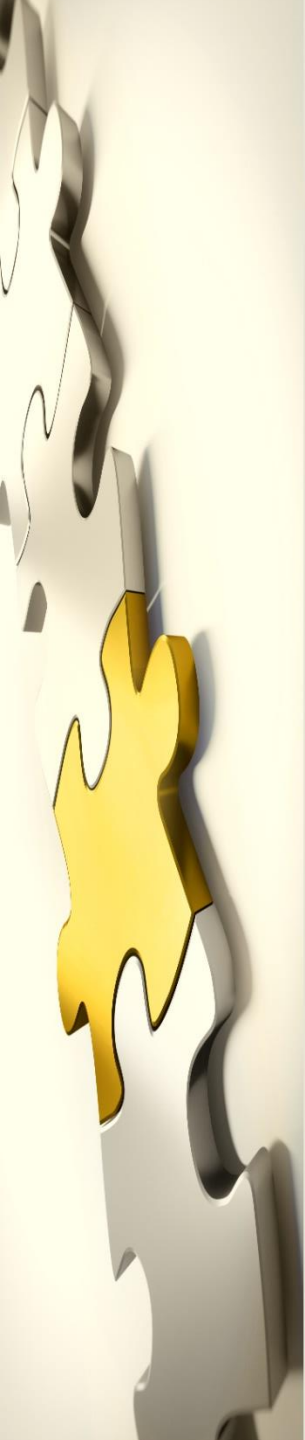


Image Credit: MJA



Zoonotic Diseases





EADs do happen in Australia!

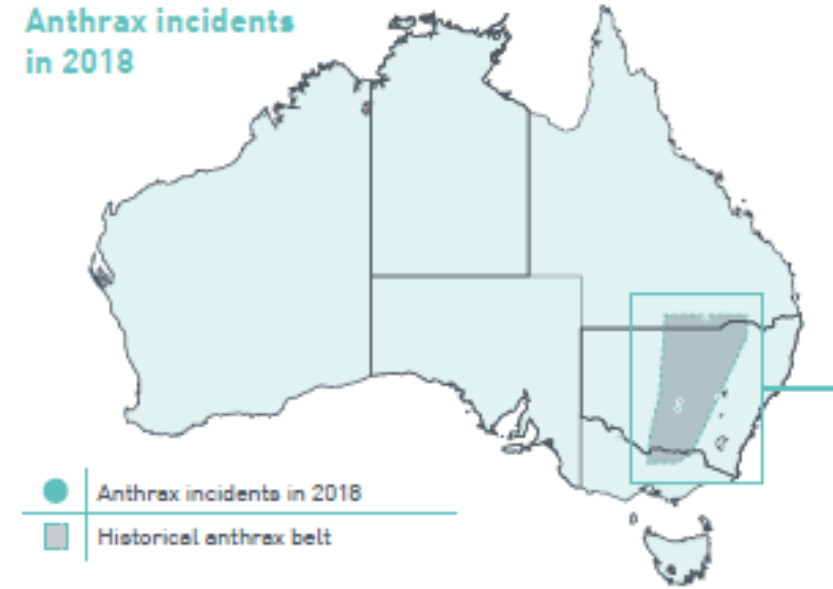
Emergency (Endemic) Diseases

- Anthrax (NSW, VIC Anthrax belt)
- Hendra virus (Qld, NSW)
- Bluetongue (WA, NT, QLD, NSW)

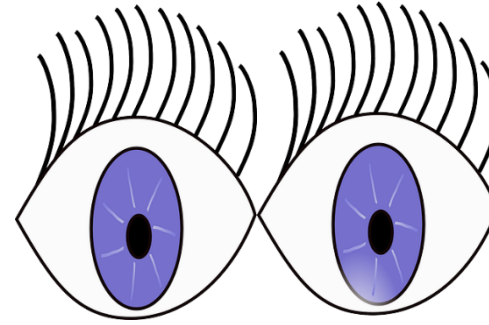
Emergency (Exotic) Diseases

- Equine Influenza (2007-08)
- Foot and Mouth Disease (1872)
- Rabies (1867)
- Scrapie (1952)

Anthrax incidents
in 2018



WAKE UP CALLS



- FMD in UK 2001
- Equine Influenza 2007/08

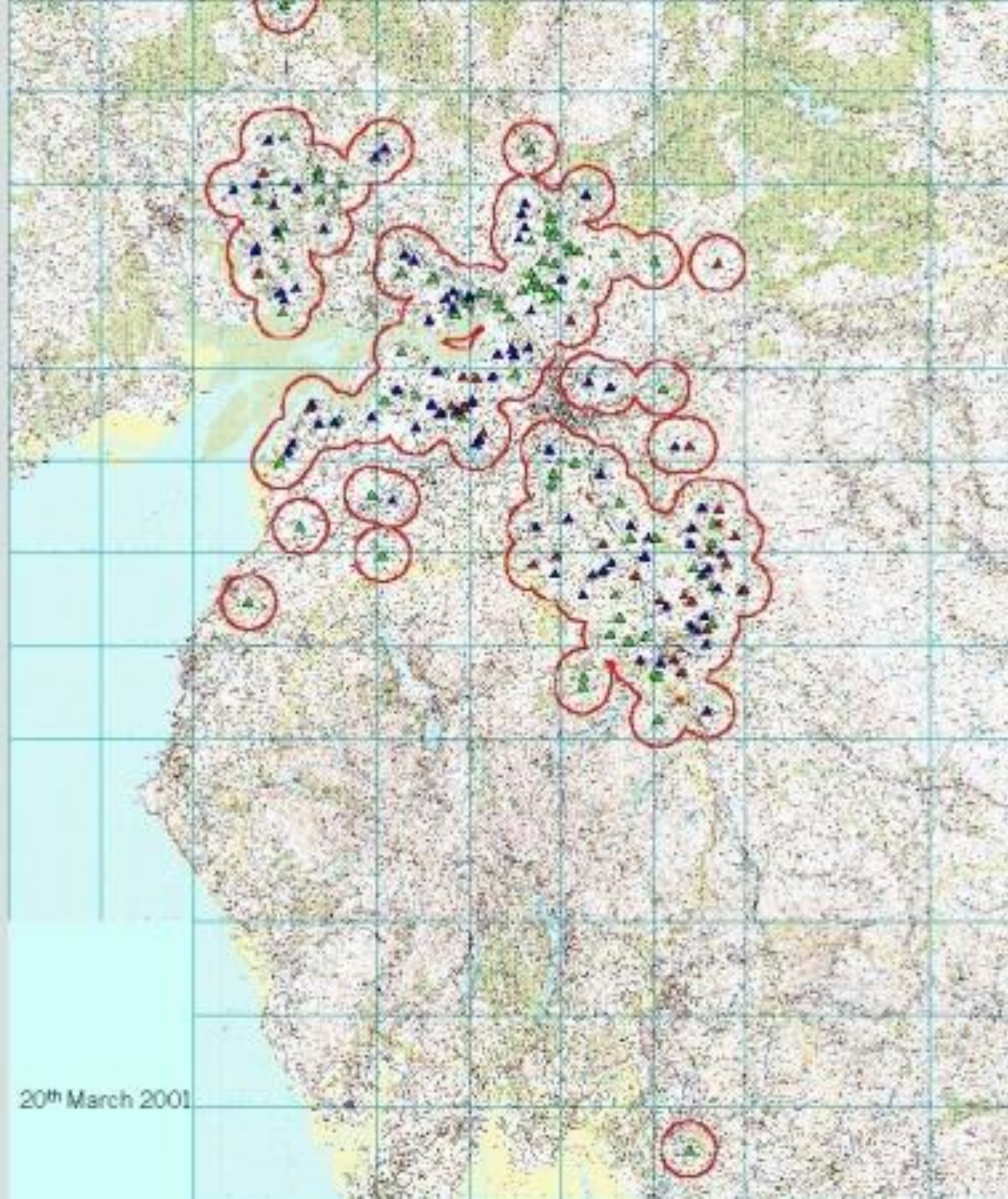


Feb

28th February 2001



March



April



May



June



Stock Movement 27th August 2013

Head	Movements	Stocktype
4152	154	Cattle
70376	560	Sheep or Goats

Legend

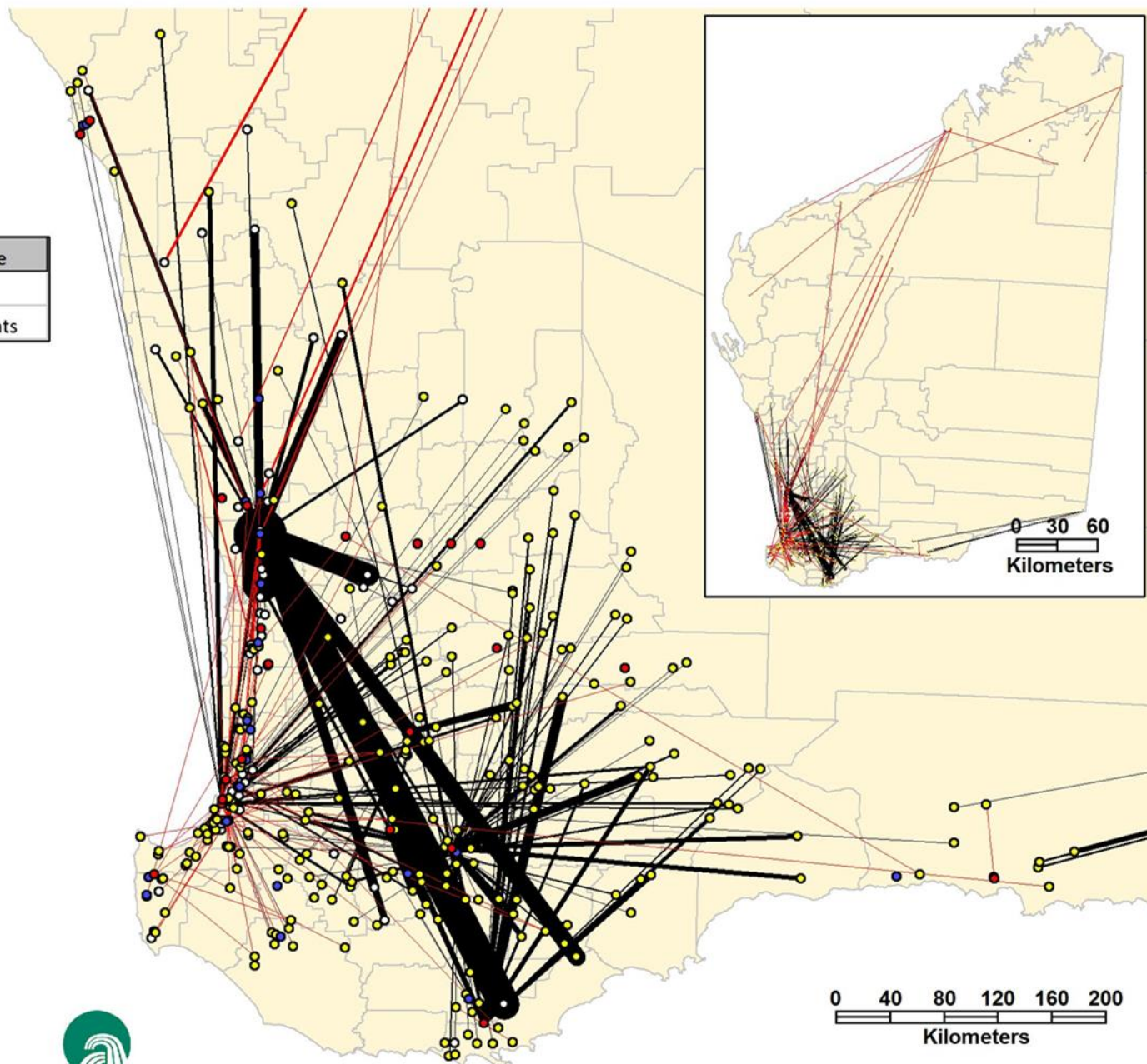
- Abattoir
- Saleyard
- Source Property
- Destination Property
- Cattle
- Sheep or Goats

Compiled by: DAFWA - Geospatial Information Services Group
 Date: January 2014 Job N#2014009
 Projection: Universal Transverse Mercator, Zone 50
 Horizontal Datum: Geocentric Datum of Australia 1994
 Vertical Datum: Australian Height Datum 1971

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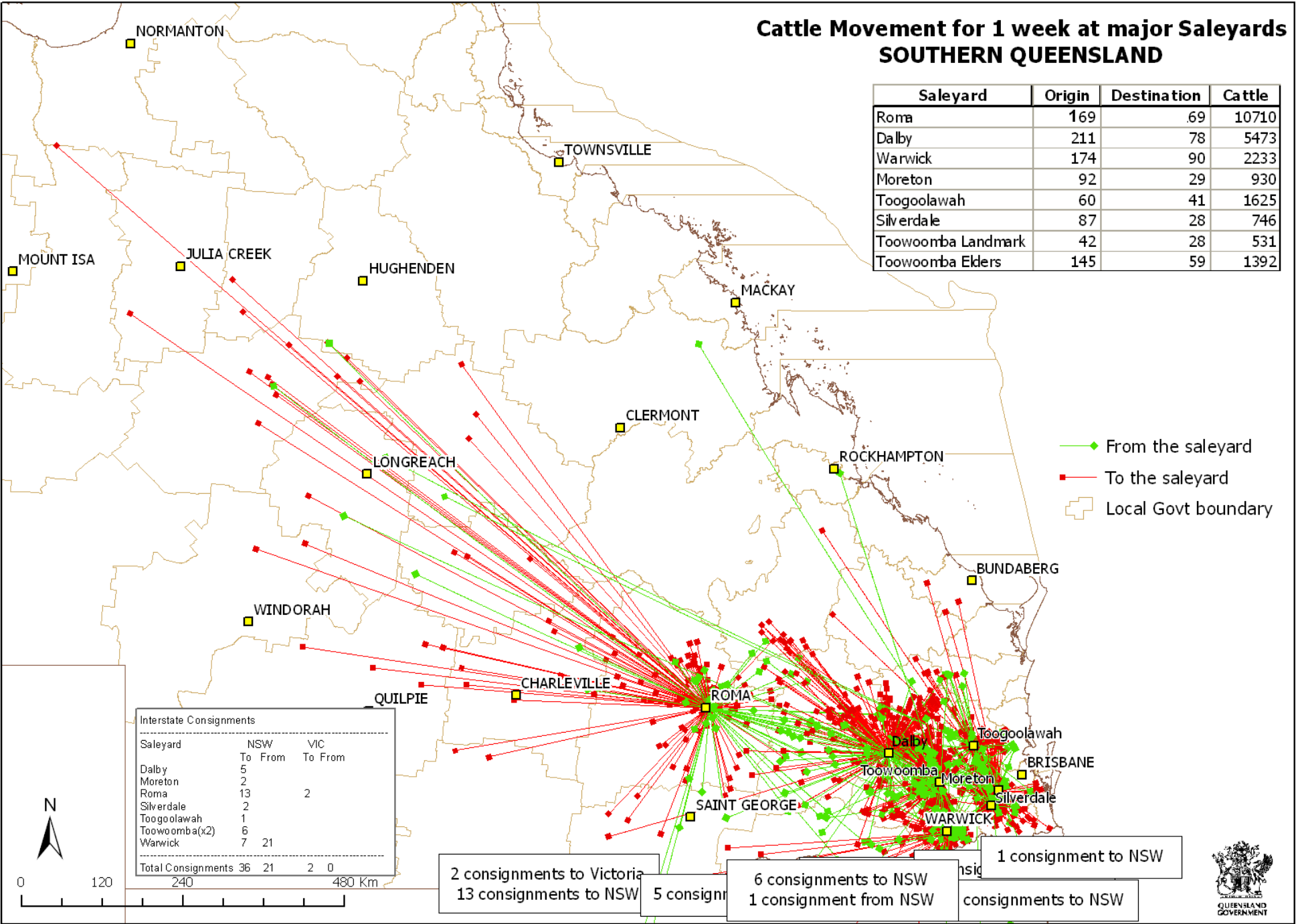


Department of
Agriculture and Food



Cattle Movement for 1 week at major Saleyards
SOUTHERN QUEENSLAND

Saleyard	Origin	Destination	Cattle
Roma	169	69	10710
Dalby	211	78	5473
Warwick	174	90	2233
Moreton	92	29	930
Toogoolawah	60	41	1625
Silverdale	87	28	746
Toowoomba Landmark	42	28	531
Toowoomba Elders	145	59	1392



WAKE UP CALLS



Australia bans Vietnam traveller over suitcase stuffed with food, including pork

[CANBERRA] Australia banned a traveller from visiting for three years after she failed to declare her suitcase was loaded with food, including products that risk introducing a pig-killing virus....

AGRIBUSINESS

African Swine Fever found in pork products at Australian airports and in mail

PETER SOMERVILLE, The Weekly Times
January 17, 2019 2:29pm



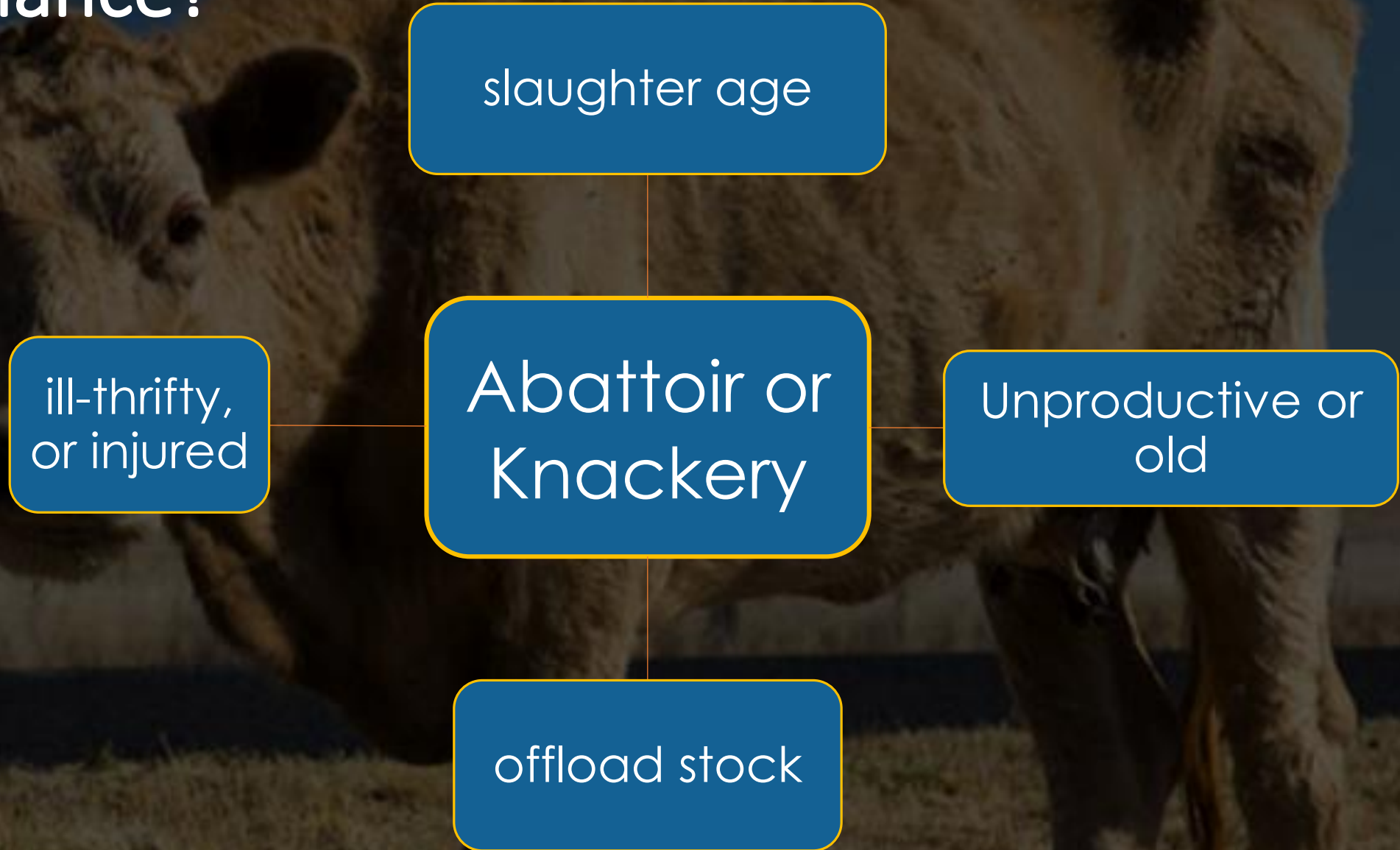
AUTHORITIES have identified the contagious African Swine Fever in samples of six pork products seized at Australian airports and mail processing centres.

'No way to stop it': millions of pigs culled across Asia as swine fever spreads

Experts say region is losing the battle to stop the biggest animal disease outbreak the planet has ever faced



Why are domestic sites important to EAD surveillance?



Why have an EAD Response?

- legal obligation
- aid early detection & reporting
- limit the disease spread
- key to surveillance
- build relationships with DPI



WORK SMARTER TOGETHER

Key Outcomes from project

- Increase surveillance and early reporting
- Give staff the tools, information and training

- awareness of 'abnormal'
- develop an EAD Response Plan
- how to report
- remove the fear



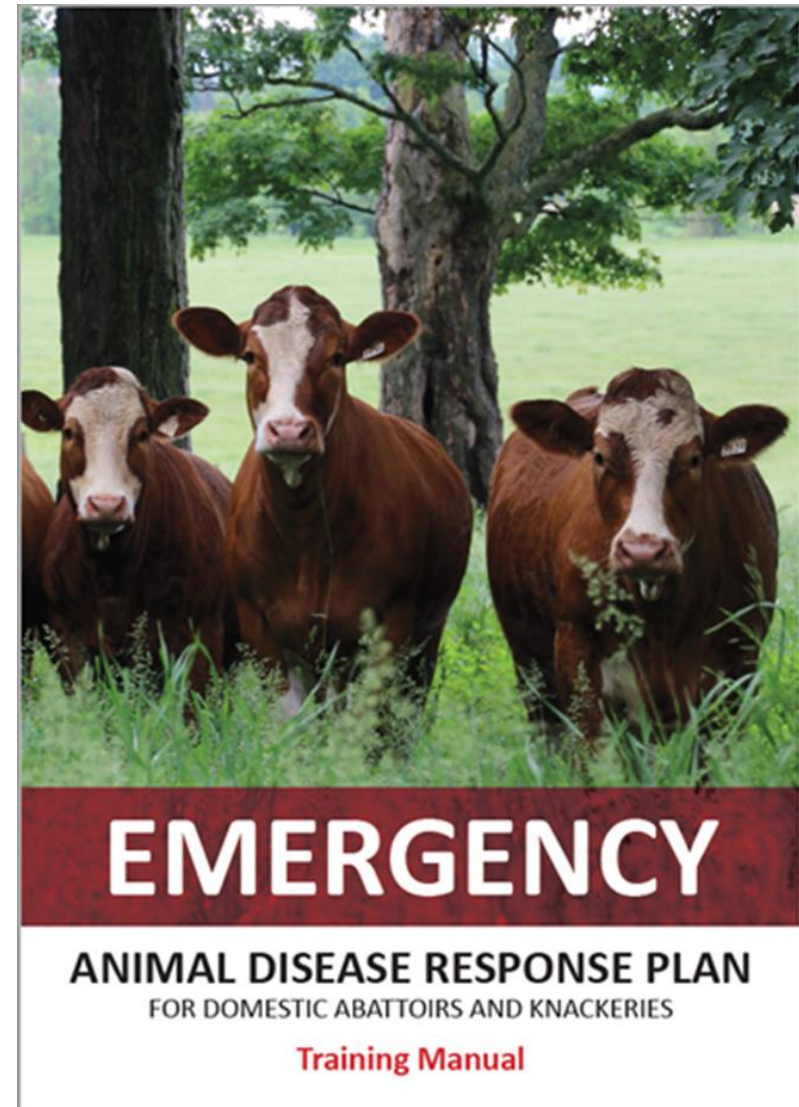
Project Materials



MINTRAC

The EAD Training Manual

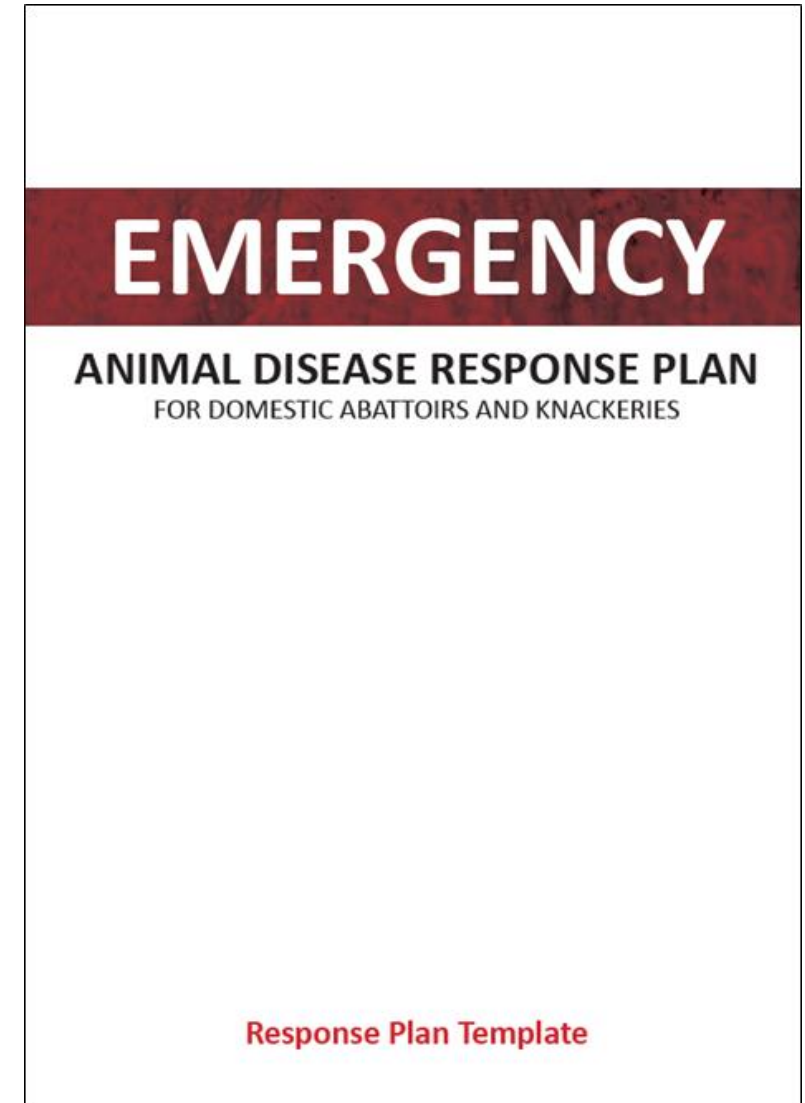
- learning tool
- signs and behaviours
- awareness of how diseases can spread
- operational protocols
- disease snapshots



The EAD Response Plan

A site-specific template to:

- ✓ help prepare the business for a potential outbreak
- ✓ detail staff responsibilities
- ✓ details important information required by DPI
- ✓ prevent additional spread
- ✓ negative environmental, animal or human impact



EMERGENCY

ANIMAL DISEASE RESPONSE PLAN

FOR DOMESTIC ABATTOIRS AND KNACKERIES

Section 1

Enterprise
information

Section 2

Site map and
diagrams

Section 3

Notifications and
responsibilities

Section 4

Staff training

Section 5

Biosecurity and
Disinfection

Section 6

Document
control

Section 1 – Enterprise Information

Premises details

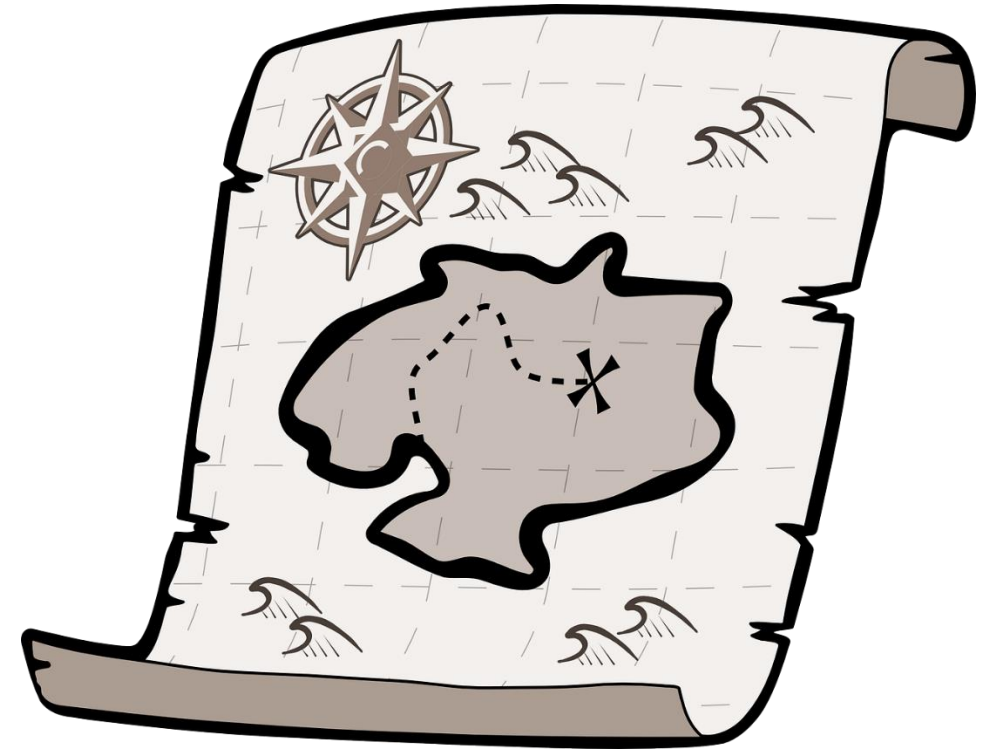
- address
- species processed
- number of staff
- lairage/chiller capacity
- average daily/weekly stock processed
- main/source of stock
- site security

Emergency Contact Details

EMERGENCY CONTACT DETAILS		
EMERGENCY ANIMAL DISEASE WATCH HOTLINE		1800 675 888
Name	Position	Phone number(s)
INSERT NAME	Business owner/site manager	INSERT MOBILE/PHONE
INSERT NAME	Meat safety inspector(s)	INSERT MOBILE/PHONE
INSERT NAME	Stockyard manager	INSERT MOBILE/PHONE
INSERT NAME	Local, state or territory veterinarian	INSERT MOBILE/PHONE
INSERT NAME	Department of agriculture	INSERT MOBILE/PHONE
INSERT NAME	Police	INSERT MOBILE/PHONE
INSERT NAME	INSERT POSITION	INSERT MOBILE/PHONE
INSERT NAME	INSERT POSITION	INSERT MOBILE/PHONE
INSERT NAME	INSERT POSITION	INSERT MOBILE/PHONE

Section 2 – Site Maps & Diagrams

- perimeter fence
- parking facilities; indicate types of surfaces
- drainage plan
- adjoining premises with susceptible stock
- suggested quarantine pens?



23km to town

Main access
road

3km to nearest
stock farm

Perimeter fence

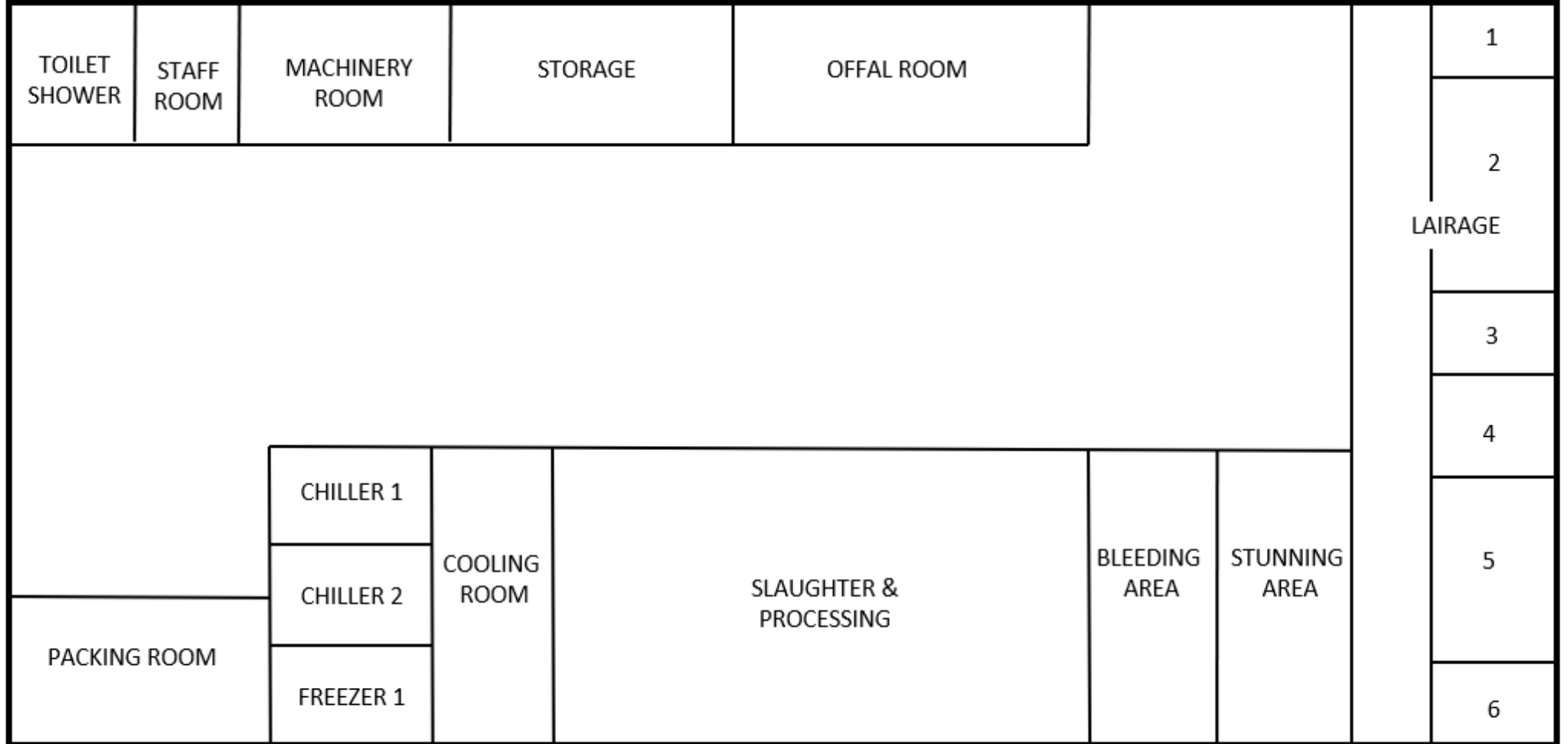


EXAMPLE OF FLOOR PLAN OF ABATTOIR

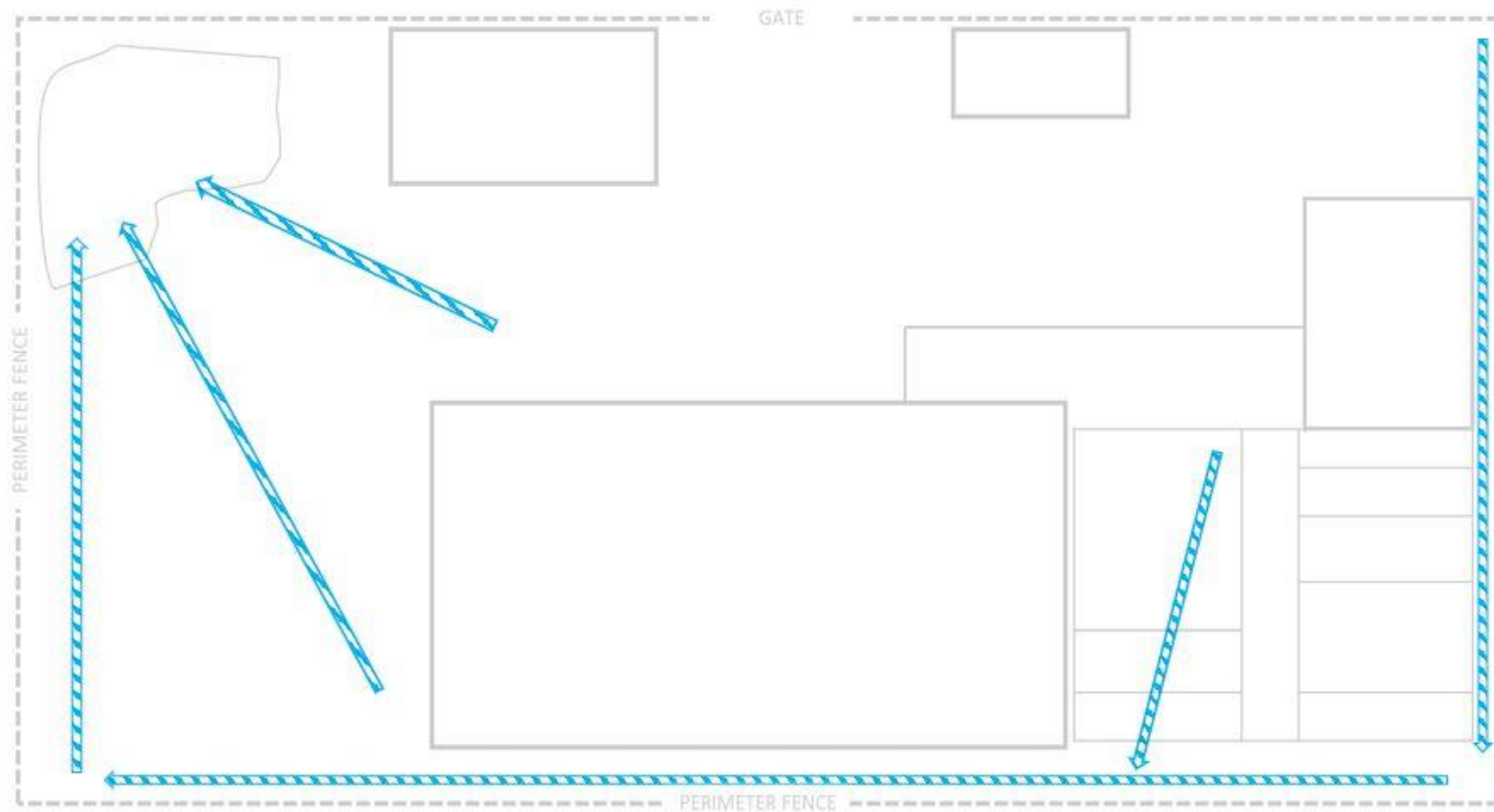
STOCK ENTRY



DISPATCH/LOADING
AREA

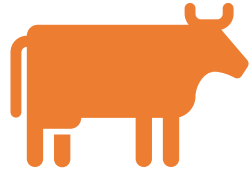


EXAMPLE OF DRAINAGE PLAN



Section 3 – Staff Responsibilities

5 Simple steps



Segregate



Advise



Good biosecurity



Gather information



Display signage

Section 4 – Staff Training

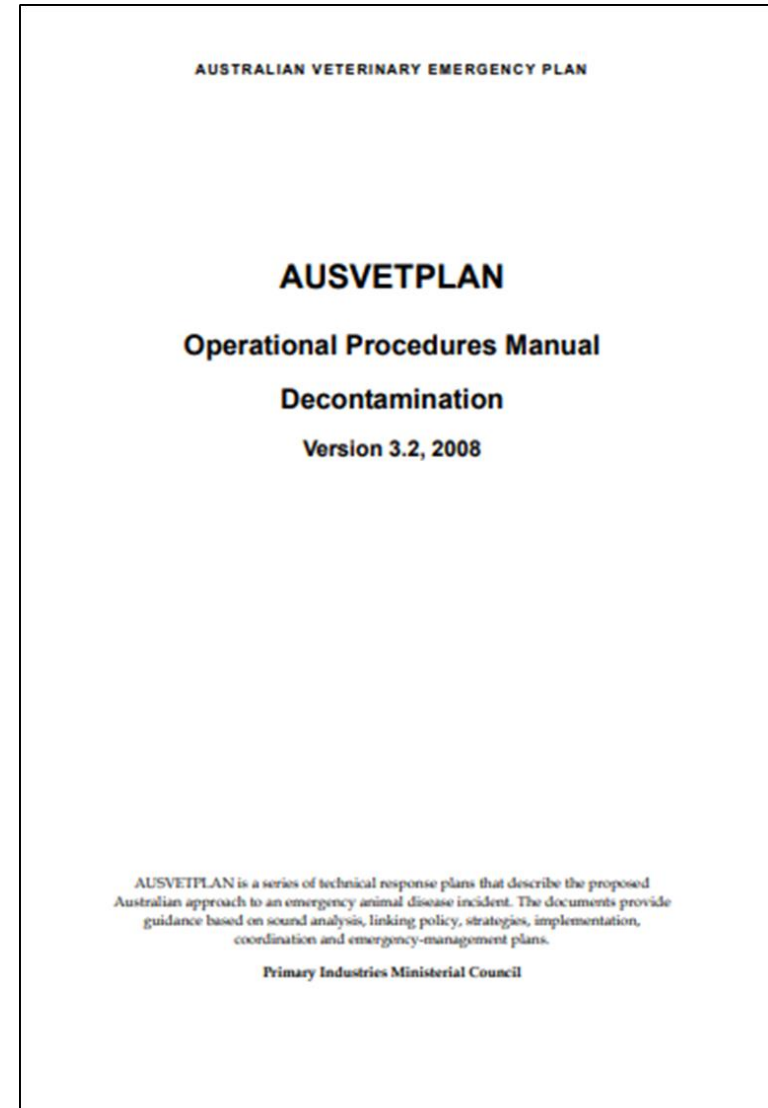
Staff Declaration		
Name	Position	Signature
INSERT STAFF NAME <input type="text"/>	INSERT POSITION <input type="text"/>	<input type="text"/>
INSERT STAFF NAME <input type="text"/>	INSERT POSITION <input type="text"/>	<input type="text"/>
INSERT STAFF NAME <input type="text"/>	INSERT POSITION <input type="text"/>	<input type="text"/>

Section 5 – Disinfectants & response resources

- On confirmation of an outbreak DPI will issue advice.

Recommendation

- to identify what they hold on site and the volume
- have a response resource kit on site

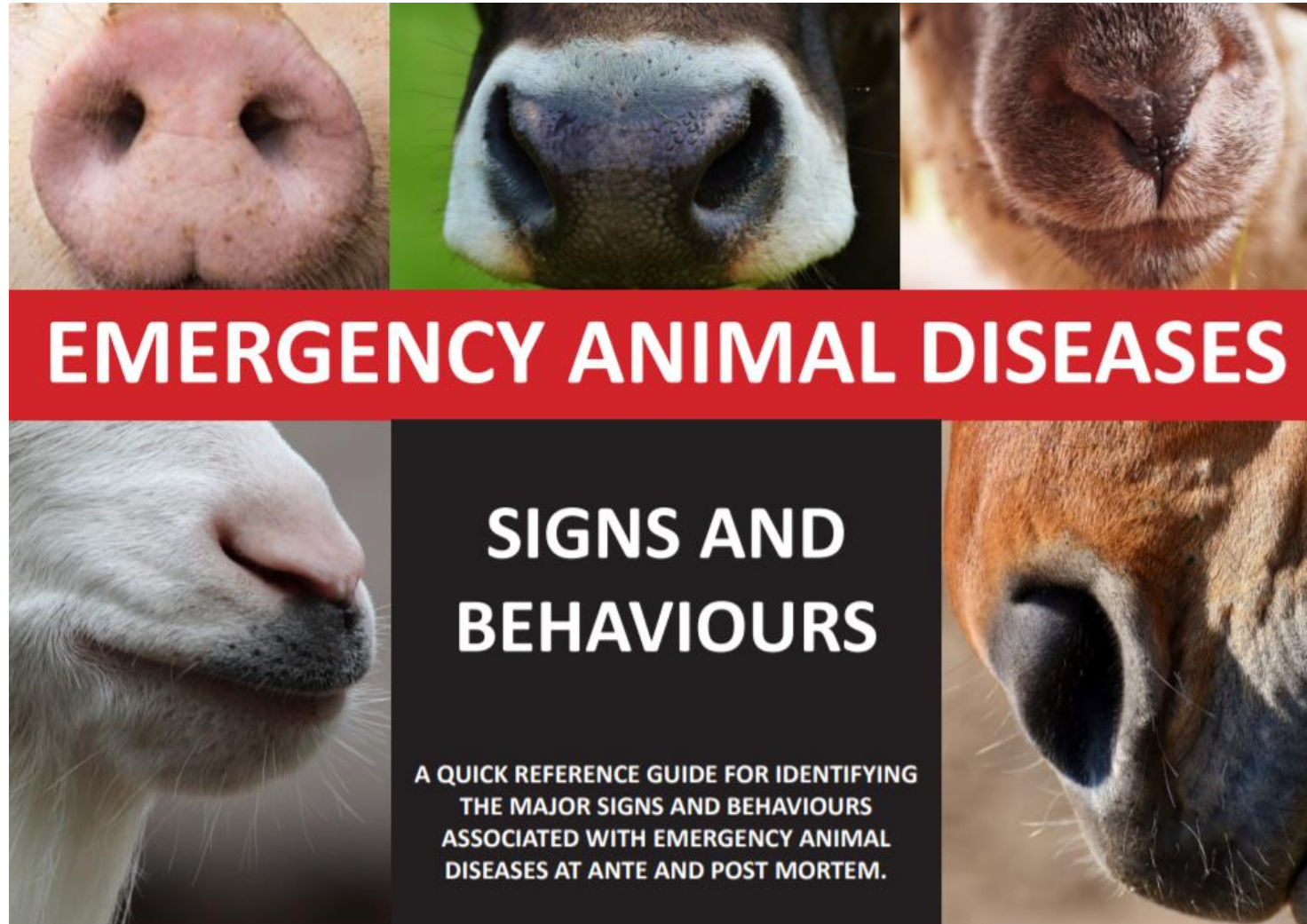


Section 6 – Document Control

- Provide evidence
- Plan is maintained
- Up-to-date

Document control	Details	Approval/ review	Details
Version	<small>INSERT VERSION NUMBER</small> <input type="text"/>	Approved by	<small>INSERT NAME AND POSITION</small> <input type="text"/>
Status	<small>APPROVED/DRAFT</small> <input type="text"/>	Date approved	<small>INSERT DATE</small> <input type="text"/>
Contact	<small>INSERT NAME AND POSITION</small> <input type="text"/>	Next review date	<small>INSERT DATE (SHOULD NOT EXCEED 12 MONTHS)</small> <input type="text"/>

Quick Reference Flip Book



Quick Reference Reference Book

**EMERGENCY ANIMAL
DISEASES**

ANTE MORTEM

- Blisters & lesions
- Bodily excretions
- Abnormal posture
- Abnormalities of the skin
- Abnormal swelling
- Abnormal behaviour

BLISTERS AND LESIONS

ON LIPS, MUZZLE AND/OR TONGUE



Cow: Unruptured blister on dental pad.



Cow: Unruptured blister on tongue.



Sheep: Lesion on dental pad.



Cow: Lesion on tongue.

BLISTERS AND LESIONS

ABOVE OR BETWEEN HOOF CLAWS



1
Cow: Ruptured blister in between claws of hoof.



2
Pig: Ruptured blister on foot.



1
Sheep: Ruptured blister in between claws of hoof.



3
Pig: Ruptured blister on foot.

ABNORMALITIES OF THE SKIN

HAIR LOSS, LUMPS AND/OR MAGGOT INFESTED WOUNDS



Cow: Weeping ulcerated lumps on the skin.



Cow: Numerous lumps on the skin.



Cow: Broken skin infected with visible maggots. May be foul smelling.



Sheep: Excessive wool loss.



Sheep: Reddened skin lumps, filled with fluid.

ABNORMAL BEHAVIOUR

DEPRESSION, DISORIENTATION, HYPERSENSITIVITY, RELUCTANCE TO MOVE, SENSORY CHANGES



Calf: Depressed state, poor health with signs of pneumonia.



Cow: Front feet spread, reluctant to move.



Cow: Bellowing, salivating with paralysis of legs.



Pig: Reluctance to stand/lameness, reddened skin.



Sheep: Hunched back, depressed, isolated from flock.

Quick Reference Reference Book

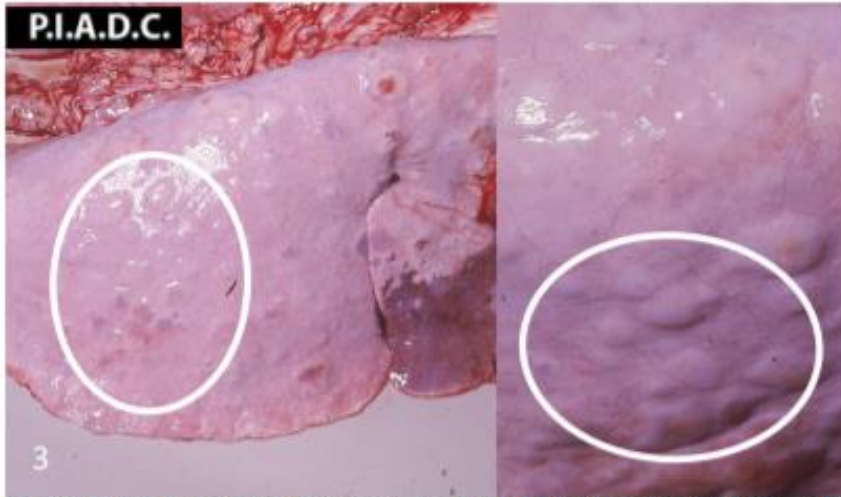
**EMERGENCY ANIMAL
DISEASES**

POST MORTEM

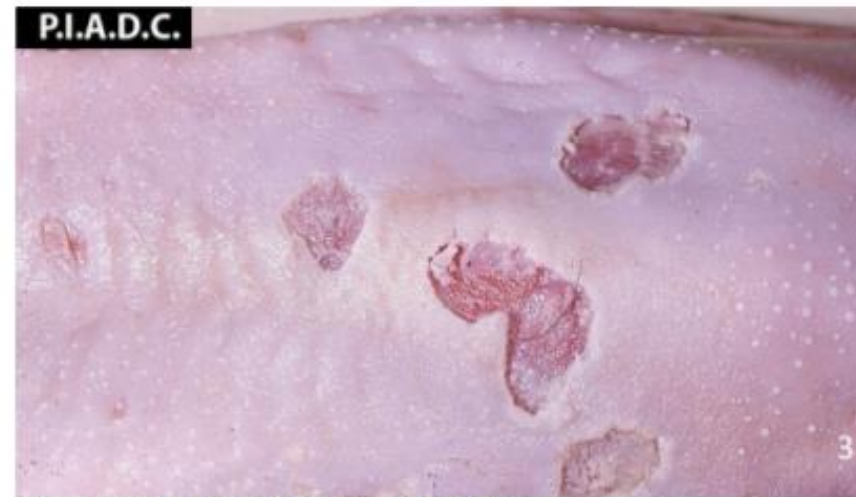
- Blisters & lesions
- Swelling
- Congestion
- Haemorrhaging
- Abnormal bodily fluids

BLISTERS AND/OR LESIONS

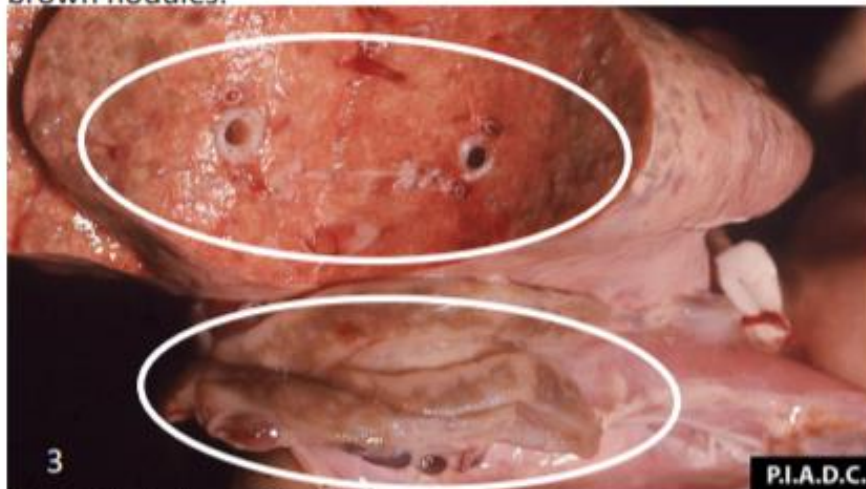
OF INTERNAL ORGANS



Sheep: Lung with numerous, slightly raised, pale tan to red-brown nodules.



Cow: Burst blisters/ulcers on tongue.



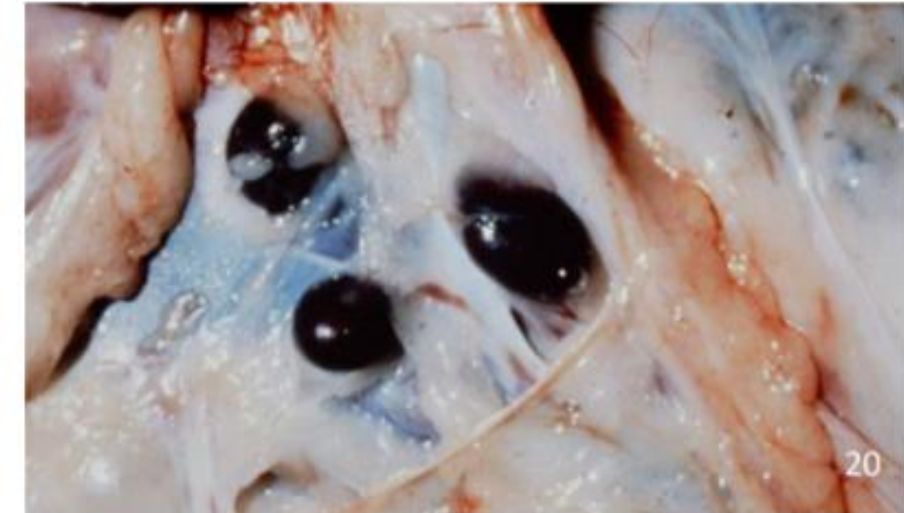
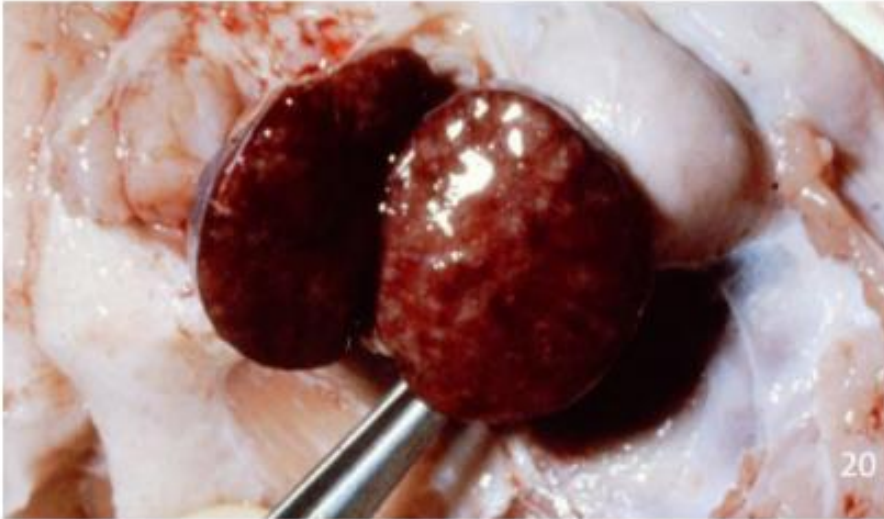
Goat: Nodules and lesions on lung.
Note: The adjacent lymph node is markedly enlarged.



Sheep: Lesions and necrotic areas in the trachea.

SWELLING, CONGESTION, HAEMORRHAGING

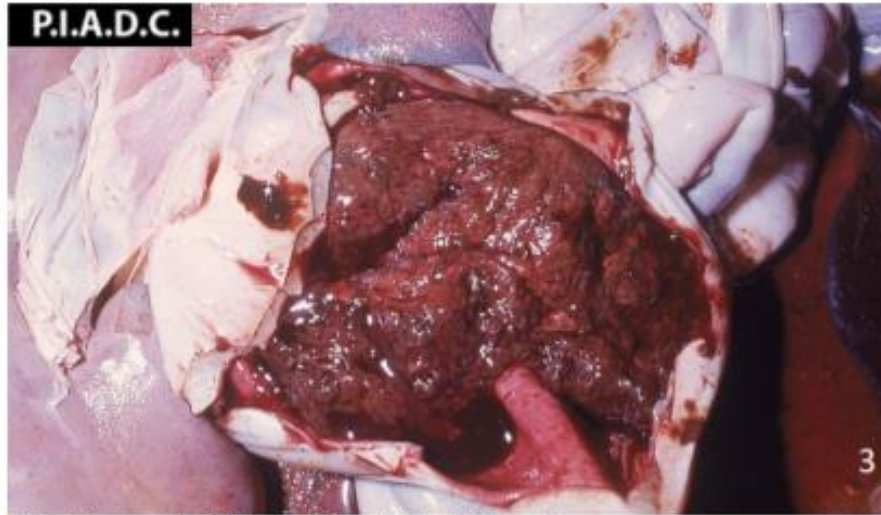
OF LYMPH NODES



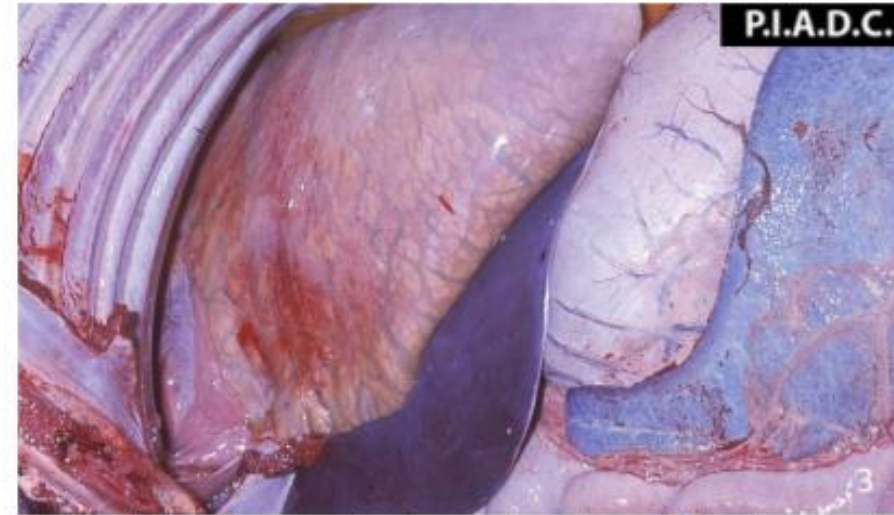
Lymph nodes: Swollen and engorged with blood.

SWELLING, CONGESTION, HAEMORRHAGING

OF INTERNAL ORGANS



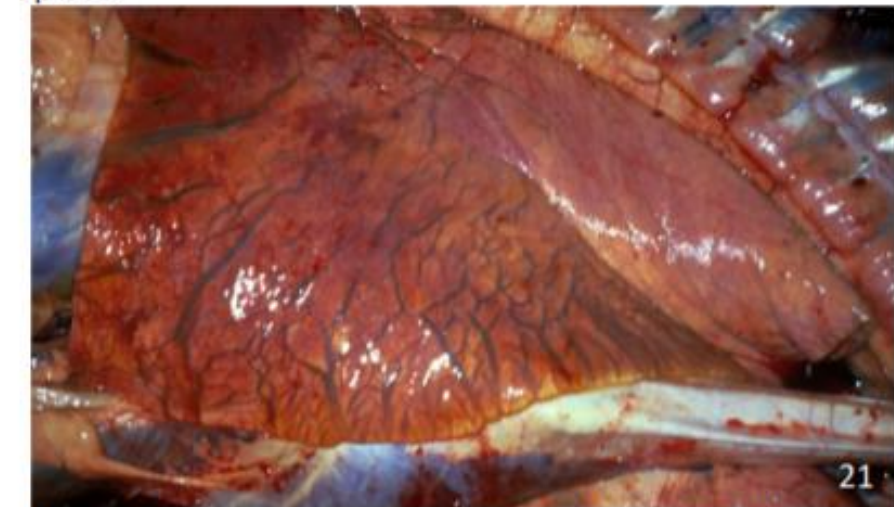
Pig: Stomach filled with clotted blood.



Horse: Severe haemorrhaging and oedema of the lung and spleen.



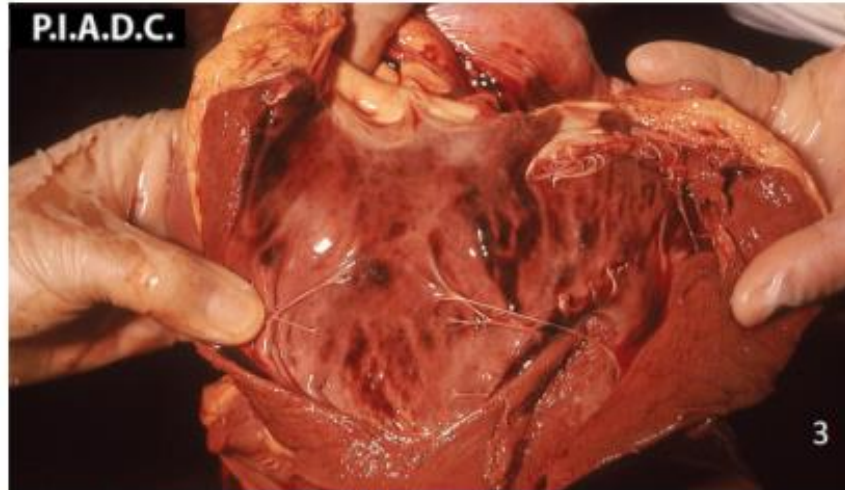
Pig: Severe haemorrhaging and congestion of the kidney.



Horse: Severe congestion and haemorrhaging of the lung.

SWELLING, CONGESTION, HAEMORRHAGING

OF INTERNAL ORGANS



Horse: Haemorrhaging of the heart.



Pig: Haemorrhaging and abnormal discoloration of the kidney.



Pig: Severe haemorrhaging and congestion of the kidney.



Sheep: Raised nodules, haemorrhaging and congestion of the lungs.

Gate Sign

RESTRICTED ACCESS



PLEASE RESPECT
THE PREMISES

**BIOSECURITY
MEASURES**

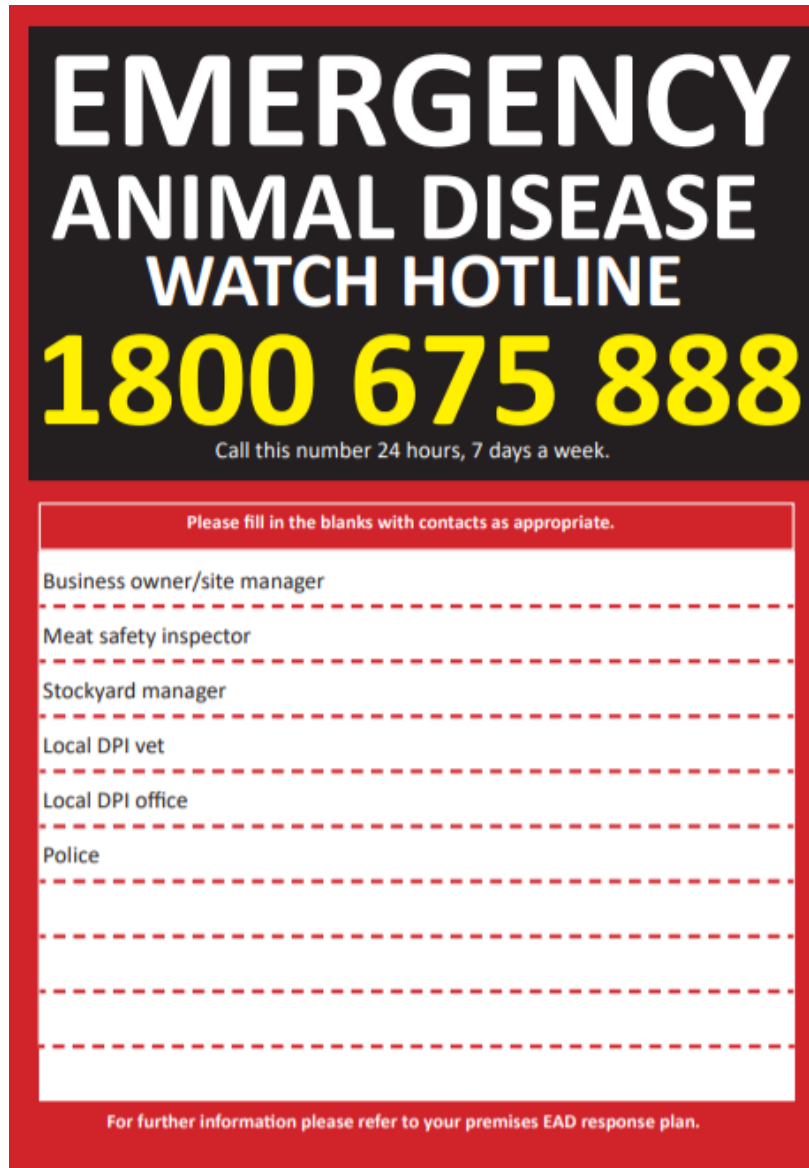
PLEASE CONTACT THE MANAGER
DO NOT ENTER PROPERTY
WITHOUT PRIOR APPROVAL



Australian Government Biosecurity Act 2015

Contact Card

2019 MI and QA Conference



**EMERGENCY
ANIMAL DISEASE
WATCH HOTLINE**
1800 675 888
Call this number 24 hours, 7 days a week.

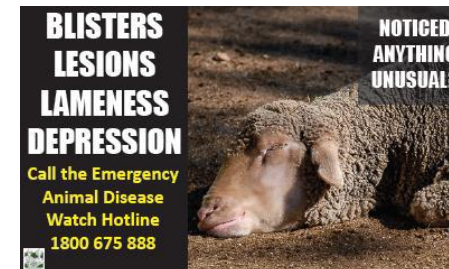
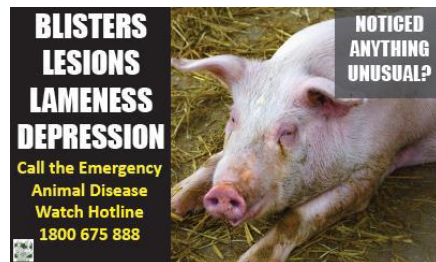
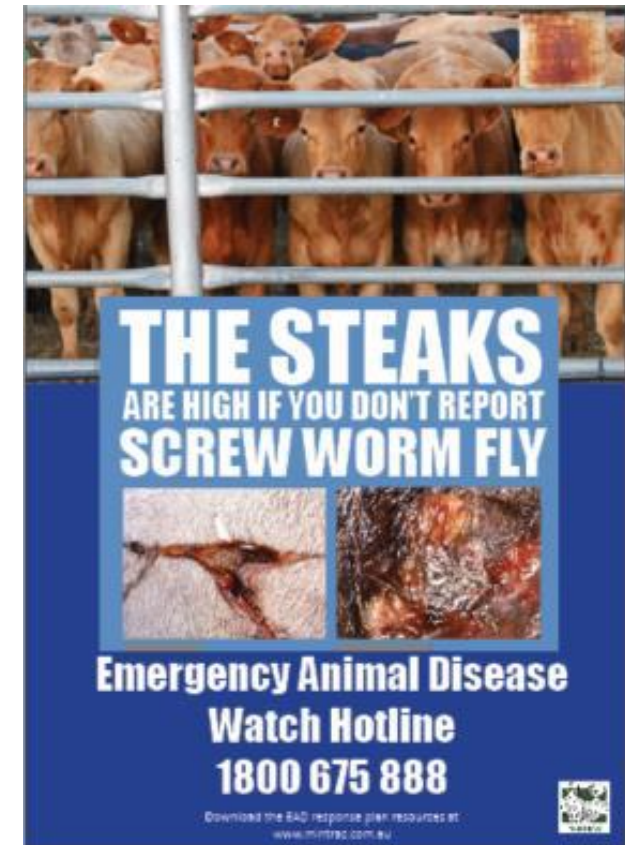
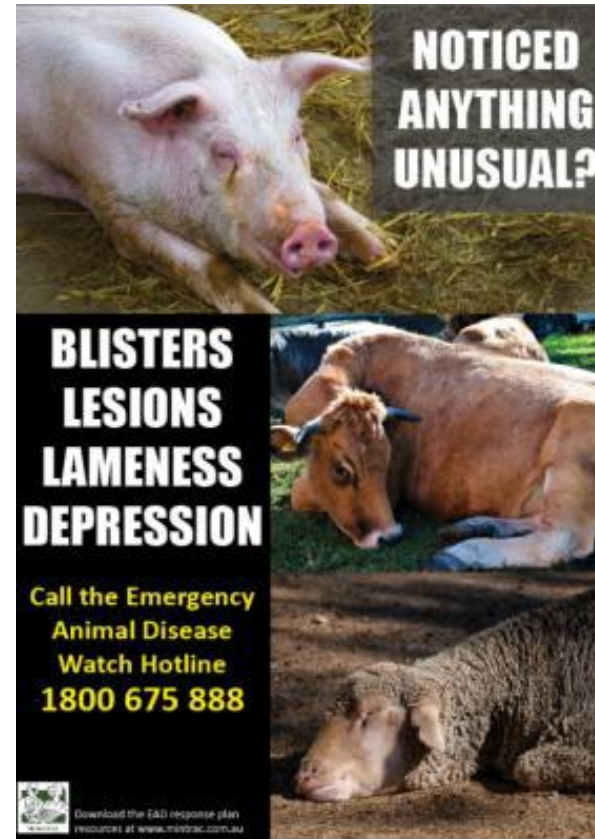
Please fill in the blanks with contacts as appropriate.

Business owner/site manager
Meat safety inspector
Stockyard manager
Local DPI vet
Local DPI office
Police

For further information please refer to your premises EAD response plan.

- Business owner
- Meat safety inspector
- Stockyard manager
- Local DPI vet
- Local DPI office
- Police

Posters/Magnets



E-Learning

- Training tool
- Short and informative
- Flexibility
- Different platforms
- Fun and interactive
- Certificate

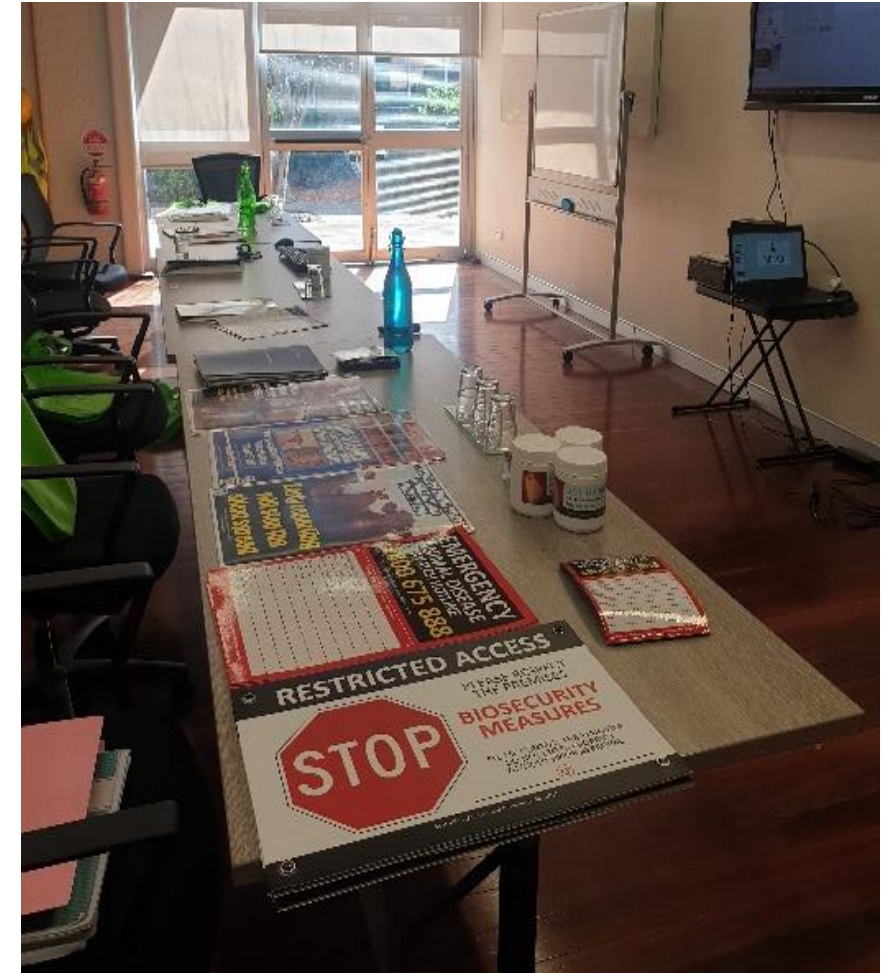


Workshop Training

Workshops cover

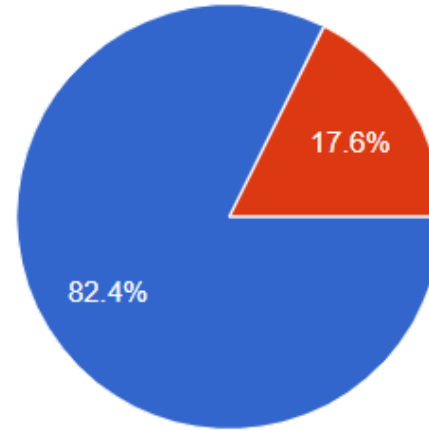
- The project and why
- EAD Awareness and spread
- Signs and behaviours
- Responsibilities and Response
- The EAD Response Plan

Training Workshop WA



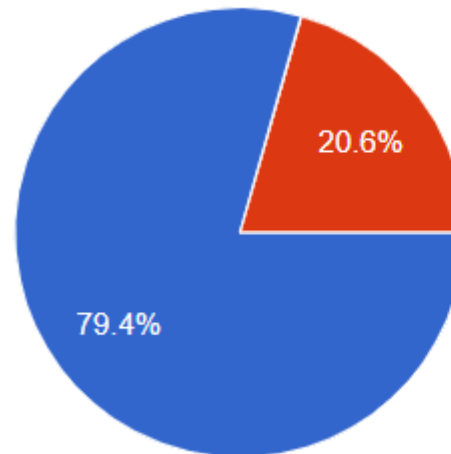
Workshop Feedback

This workshop achieved its purpose?



- Strongly agree
- Agree
- No opinion
- Disagree
- Strongly Disagree

How useful will what you have learned during this workshop be when you return to work?



- Very useful
- useful
- No opinion
- Not useful
- Not relevant at all

What did you find best about the workshop?

“Presentations and handouts”

“Practical examples of requirements (template etc)”

“Clear and concise delivery of the program. All presenters extremely knowledgeable and delivered the presentation in a user-friendly manner”

“Useful information to utilise in the future”

“Very informative of the importance to manage EAD, how to manage it and how to identify any potential issues”

“The EAD pack and particularly the EAD plan template will be most beneficial to build a EAD plan on site”

Additional feedback?

“Presenters spoke very well and explained information to suit all attendees. It is great to see such collaboration between state gov, LG and industry”

“photos and videos of EADs helpful “

“please continue to run courses like this for relevant topics of interest to meat industry QA”

“Really good, informative. Information WE needed “

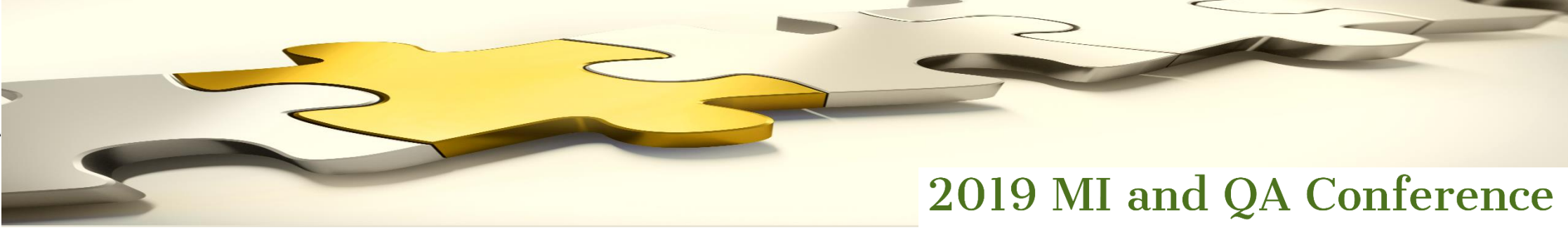
“Fantastic resources, great help having materials developed specifically for us“

WHO IS RESPONSIBLE FOR EAD PREVENTION AND CONTROL?

Everybody !







2019 MI and QA Conference

Thank you

Any questions?

Please contact MINTRAC to receive any hard copies of the resources developed or download on the website

Lynne Crawford
Project Officer