

Biosecurity-Everyone's Responsibility

MINTRAC

Paddock to Plate

National Training Conference

25th-26th March 2015

Dr. Pat Mitchell

**R & I Manager – Industry
Stewardship**

What is “biosecurity”?

Protection of the population against harmful biological or biochemical substances



Why??

A long time ago

In a galaxy not too

Far far away

There was an

Epidemic

Called

Foot & Mouth...

International sow herd size

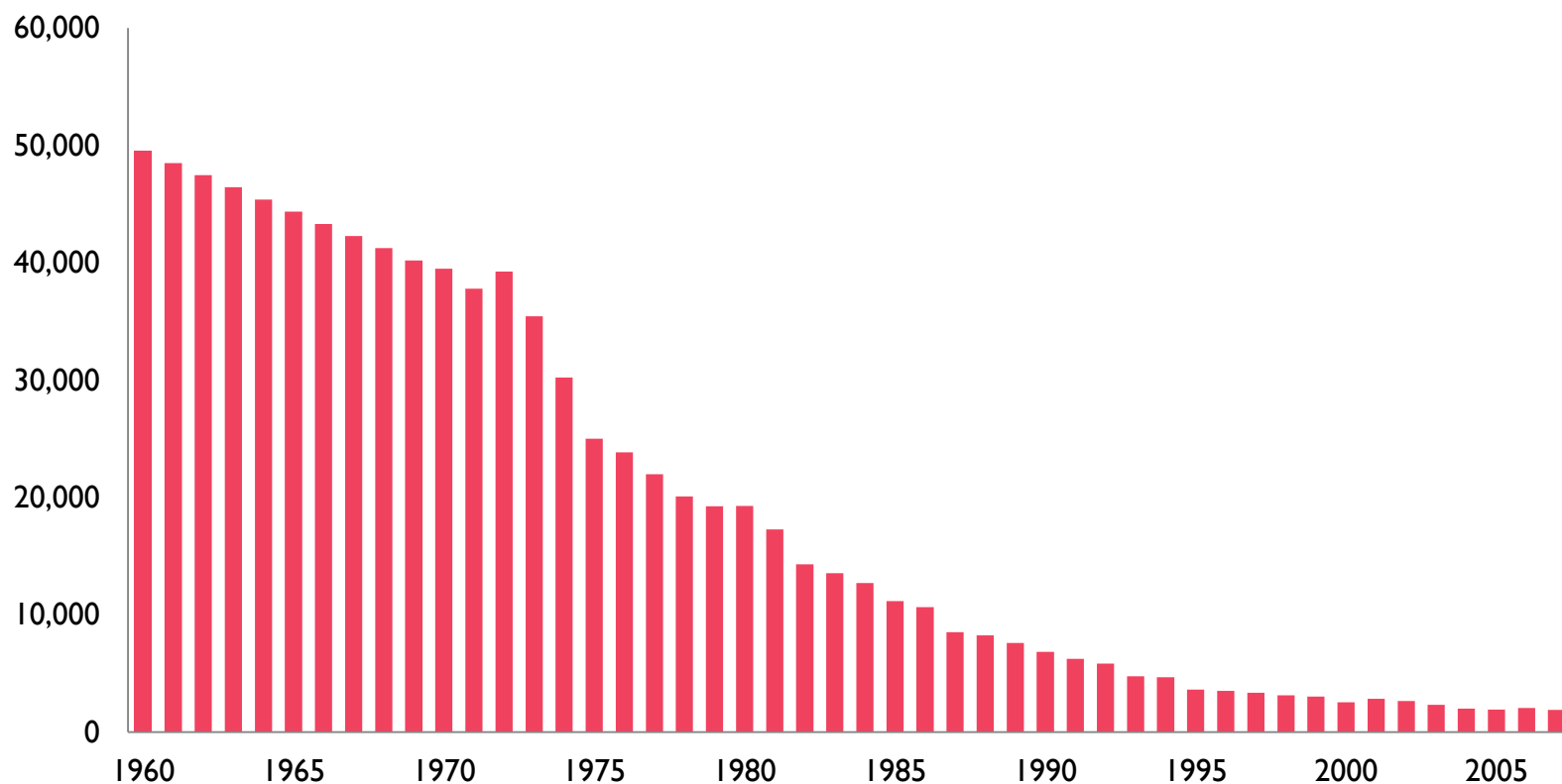
- China
 - 50 million sows
- USA
 - 6 million sows,
 - Iowa ~1 million,
 - North Carolina ~ 840,000
- Canada
 - 1.3 million
- Denmark
 - 1.03 million



Australian herd 262,000 SOWS



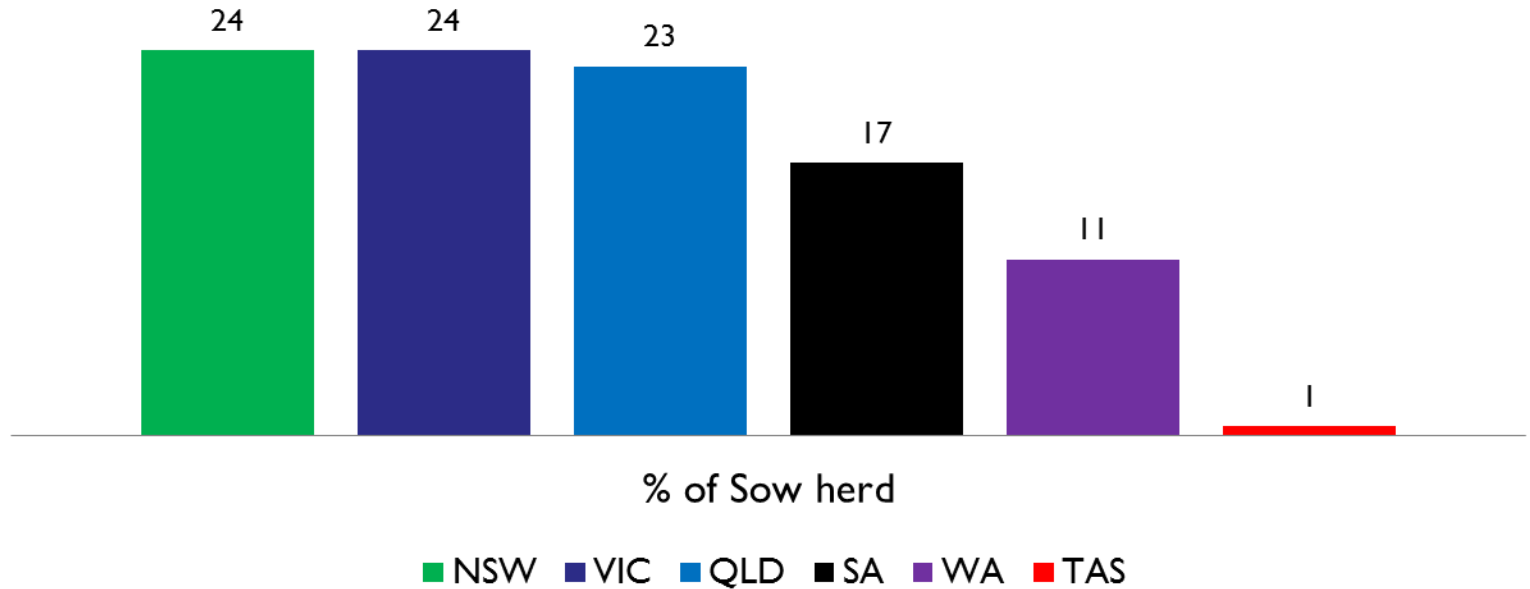
Pig producers



2013/14:

- ~1,400 Producers
- 400 producers ~ 92% production

Industry overview



- Roughly 20 abattoirs that slaughter pigs
- Only seven are pig specific export abattoirs-require APIQ[✓]® Certification



Industry Characteristics.....

- “Long tail”
- Lifestyle & “sea-change” farmers increasing
- 10% of production outdoors
- Pork imports de-boned, frozen and cooked upon crossing the border-No fresh pork imports.....
- Increasing number of 457 & similar visas-stock-people
- Large, variable, mobile feral pig population

**THE
PIG
IDEA**



Industry Considerations.....

- Exotic and common diseases
- Contamination
- Food safety
- AMR
- Need flexible “one size fits all”
 - All farm sizes & production types
 - Keeps up with science
 - Training



Industry Considerations.....

- Preparedness
 - Must be proactive
 - Prioritizing, analyzing & predicting the risks of an exotic disease or pest incursion
 - Planning, training with producers & staff
 - Engaging stakeholders
 - Extension up and down the chain



Small Holders & Large Holders

Small Holders

- Sow herd of 50 or less sows;AND/OR
- Produces, trades or sells live, or to slaughter, up to 1000 pigs

Large Holders

- Sow herd of 51 or more sows;AND/OR
- Produces, trades or sells live, or to slaughter, 1001 pigs or more

Five Key Areas of Focus

- 1. Management**
- 2. Food safety**
- 3. Biosecurity**
- 4. Animal Welfare**
- 5. Traceability**

Biosecurity

APIQ✓® STANDARDS – MODULE 4:

BIOSECURITY STANDARDS – SUMMARY TABLE

No.	Standard	
4.1	On-farm Systems are in Place to Minimise the Risk of Contamination or Disease Spread	Risks to pigs from disease or contamination brought into the piggery by people, vehicles or animal movements are minimised.
4.2	The Risk of Disease Introduction from New Stock and Semen is Controlled	New diseases or disease-causing agents of significant importance are prevented from establishing in the herd through the introduction of new stock or semen.
4.3	Staff are Trained in Emergency Disease Awareness and Follow Biosecurity Procedures	Staff are aware of the procedures to identify, manage and report exotic and endemic diseases.
4.4	Pest Control Procedures are in Place	The risk of disease spread through pests is minimised.

4.1 On-farm Systems are in Place to Minimise the Risk of Contamination or Disease Spread

- Don't feed swill
- Controlled entrance/secure fence
- Visitor / transport records
- Protective clothing
- Showering & clothes washing facilities
- Protocol for vehicles
 - non-farm vehicles
 - Farm vehicles
 - Equipment



▲ BROADACRES PIAVELLA PTY LTD

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BROAD ACRES BACON FEED ORDER REGISTER



Date ordered	Feed Type	Medication & rate	WHP	Tonnage Ordered	Date picked up	Actual Tonnage	Destination Silo	Date dispensed to silo	Signed
3/01/2012	Lac Gilt	N/A	N/A	14T	5/01/2012	14.16	Lac sow 1 & 2	5/01/2012	
3/01/2012	Grower	N/A	N/A	24T	6/01/2012	24.66	Grower	6/01/2012	
3/01/2012	Finisher	N/A	N/A	12T	6/01/2012	12.20	Finisher	6/01/2012	
3/01/2012	Gilt Developer	N/A	N/A	10T	6/01/2012	10.48	Mating shed	6/01/2012	

4.2 The Risk of Disease Introduction from New Stock and Semen is Controlled

- Incoming stock numbers limited
- Introduced stock
 - Same biosecurity reqs
 - Checked on arrival
 - Quarantined
 - Health status is known
- Recommendation-one genetics supplier
- Commercial semen suppliers
 - Strict health controls
 - QA program



4.3 Staff are Trained in Emergency Disease Awareness & Follow Biosecurity Procedures

- Staff training
 - Exotic and common diseases,
 - Are able to recognise the signs of ill-health in pigs
 - Are aware of the procedures to follow when such signs are seen

Pig Post-Mortem Information

Date Pig Found	
Identification and age of pig (Litter no., birth date, birth week etc.)	
Weight of pig (Approximate weight)	
Body Condition (Thin, fat, bloated, good)	
Previous health problems (Clinical signs observed)	
Period of ill-health (Date pig first noted sick or off feed)	



4.4 Pest Control Procedures are in Place

- Fence around the farm
 - Feral pigs
 - Domestic animals
 - Two-legged varmints
- Doors on sheds
- Screens on shed “window”
- Staff training
 - Rodent & pest control
 - Record keeping



AUSTRALIAN

Pork

ICU MONITORING RECORD



Broadacres Bacon

ANIMAL ID

Date Entered to Hospital Pen:-

SOW STATUS:- WEAN / STALE / MATED / RETURN / UNMATED GILT
(circle choice)

Previous location:-

Shed:-

Pen:-

Shed:-

Pen:-

Illness / Injury

Condition

Body score on arrival:- 1 2 3
(circle choice)

(refer to body condition chart)

Treatment:-

Medications administered & WHP:-

Date Clear

*animal to be checked in the AM and PM

Day 1



Day 2



Day 3



BROAD-ACRES-BACON-PORK-SHED-TREATMENTS

RECORD 11

DATE	PEN- No.	PIG- No.	PIG- WEIGHT	PRODUCT-USED- &WHP	DOSAGE	DAY- 1	DAY- 2	DAY- 3	DAY-CLEAR	COMMENTS-(INCLUDE REASON-FOR-TREATMENT)



Approved Medication List for:
(Prepared by Chris Richards and Associates)

Staph hyicus autogenous vaccine

(Inactivated Staph hyicus)

Dose: 1 ml per gilt

Intramuscular

Give: G

Vaccination - Gilts

Gilt Vaccination

Dose: 1 ml per sow

Intramuscular

Give: G

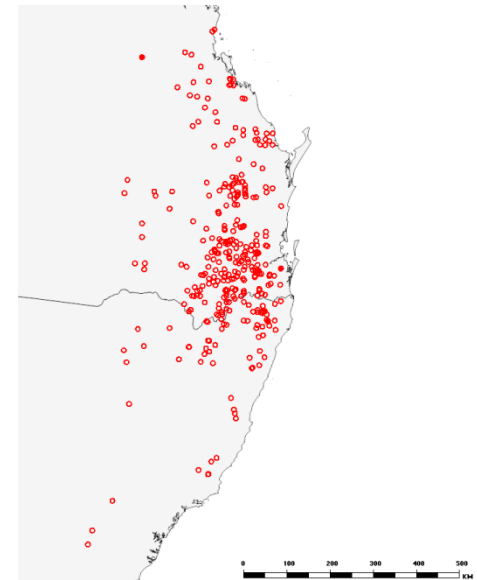
Vaccination - Sows

Sow Vaccination



Industry Considerations.....

- Preparedness
 - \$1.3m over last 5-6 years
 - Disease modelling
 - Feral pig knowledge
 - FMD preparedness
 - Zoonotics
 - Strategic Biosecurity Review Panel
 - Industry Enterprise Manual
- Doesn't include
 - AUSVET Plans reviews
 - Extension activities
 - Time commitments
 - Training



Biosecurity Concerns

- Level of Biosecurity knowledge in “tail”
- Lack of contact with smaller pig keepers
- Incursions of devastating pig diseases
- Zoonoses-two way
 - Influenza
 - MRSA
 - C. difficile
 - S.suis
 - Brucella suis
 - AMR
- Overseas travel by staff
- Feral pig population



Conclusion

- Biosecurity impacts all of us
 - We're all in this together
- Heightened" Biosecurity – rubbish!
- If you have to "heighten" it, you're not doing it properly
- Biosecurity needs to be part of Agr production culture
 - Risk management
 - Preparedness
 - Vigilance





Questions??