

Department of Agriculture and Water Resources

The National Biosecurity Committee presents the 2017 National Biosecurity Forum

Welcome

#natbioforum2017

Josephine Laduzko

2 November 2017





Department of Agriculture and Water Resources

Commonwealth Government Update

#natbioforum2017

Daryl Quinlivan 2 November 2017



Department of Agriculture and Water Resources

National Biosecurity Committee update



#natbioforum2017

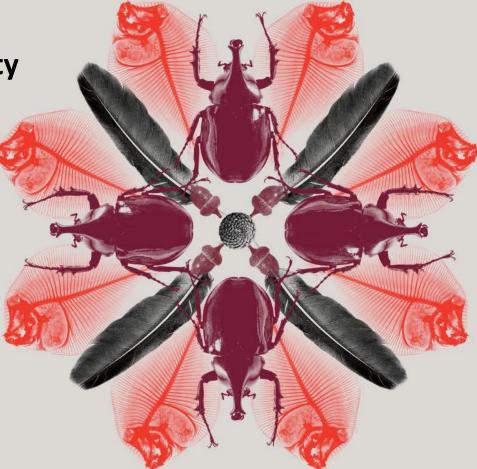
Lyn O'Connell 2 November 2017



Department of Agriculture and Water Resources

Intergovernmental Agreement on Biosecurity update





Will Zacharin

2 November 2017

Priorities for Australia's biosecurity system

- An independent review of the capacity of the of the National Biosecurity System and underpinning Intergovernmental Agreement
- The final report was presented to the Agriculture Ministers' Forum on 26 July 2017
- Agriculture Ministers agreed that they would agree to a consolidated national response and revised IGAB in mid-2018

Department of Agriculture and Water Resources

2 November 2017

Poll everywhere

Text:

BIOSECURITY

To:

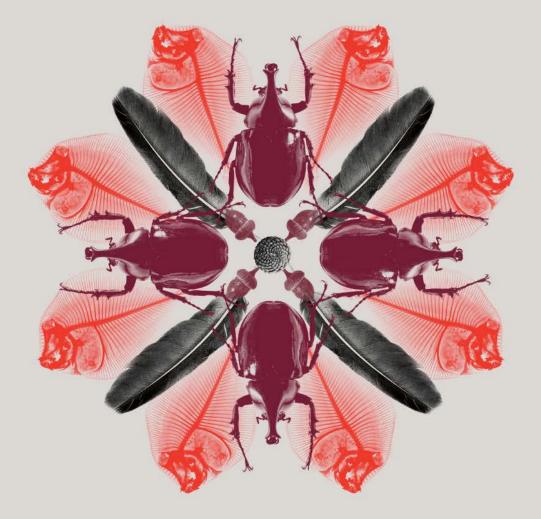
0427 541 357

Department of Agriculture and Water Resources



Department of Agriculture and Water Resources

NATIONAL BIOSECURITY STATEMENT



Tom Krijnen

2 November 2017

Priorities for Australia's Biosecurity System report

Recommendation 2:

The NBC and the Industry and Community Biosecurity Committee should, through an open, transparent and collaborative process, lead national consultation on a draft National Biosecurity Statement, such as that proposed by this review.

The consultation process should involve all levels of government (including local government), industry and the community, with the statement finalised and launched within eighteen months of the IGAB review report.



Priorities for Australia's biosecurity system AN INDEPENDENT REVIEW OF THE CAPACITY OF THE

AN INDEPENDENT REVIEW OF THE CAPACITY OF THE NATIONAL BIOSECURITY SYSTEM AND ITS UNDERPINNING INTERGOVERNMENTAL AGREEMENT

8

What is a National Biosecurity Statement?

- A single shared vision for the biosecurity system, including:
 - national biosecurity goals
 - clarity on participant roles, responsibilities and accountabilities
 - national priorities and principles for managing biosecurity.
- Drafted collaboratively with all system participants (government, industry and the community).
- Periodically redrafted, both to keep it current and to engage with new participants.

What do we want from this session?

We are seeking your feedback on:

- 1. The process and the timeframe for developing the national biosecurity statement
- 2. The purpose and scope of this statement

1. Process for developing the national biosecurity statement

INDICATIVE TIMING	OPTION 1	OPTION 2
2 November 2017	National Biosecurity Forum	
16 November 2017	Environmental biosecurity roundtable	
15 February 2018	National Biosecurity Committee meeting	
March 2018	Biosecurity Roundtables and other	Biosecurity Roundtable workshop
	stakeholder fora	Agree to a statement for public consultation
	Consultation	Agree to a release strategy
April 2018		Open public consultation on draft statement
May 2018		
June 2018		NBC endorsement of strategy and release strategy
July/August 2018	Enactment of refreshed IGAB	
September 2018	Biosecurity Roundtables and other identified	
	stakeholder fora	
	Consultation	
October 2018	Open public consultation on draft statement	
November 2018		
December 2018	National Biosecurity Forum	
	Stakeholder endorsement of the statement	
	Agree release strategy	

2. Purpose, scope and content

Short answer

- 1. In 2-3 words, please describe the benefit of a national biosecurity statement for you or your organisation?
- 2. Would you like to see the roles and responsibilities table as part of the statement yes or no?

Discussion

1. Is there any other information you would like to see in the statement?

2. Is there any information in there that you think does not belong there?

3. How would you/your organisation use a statement?

Next steps

If you have any further questions on the national biosecurity statement, please email

biosecurityroundtable@agriculture.gov.au

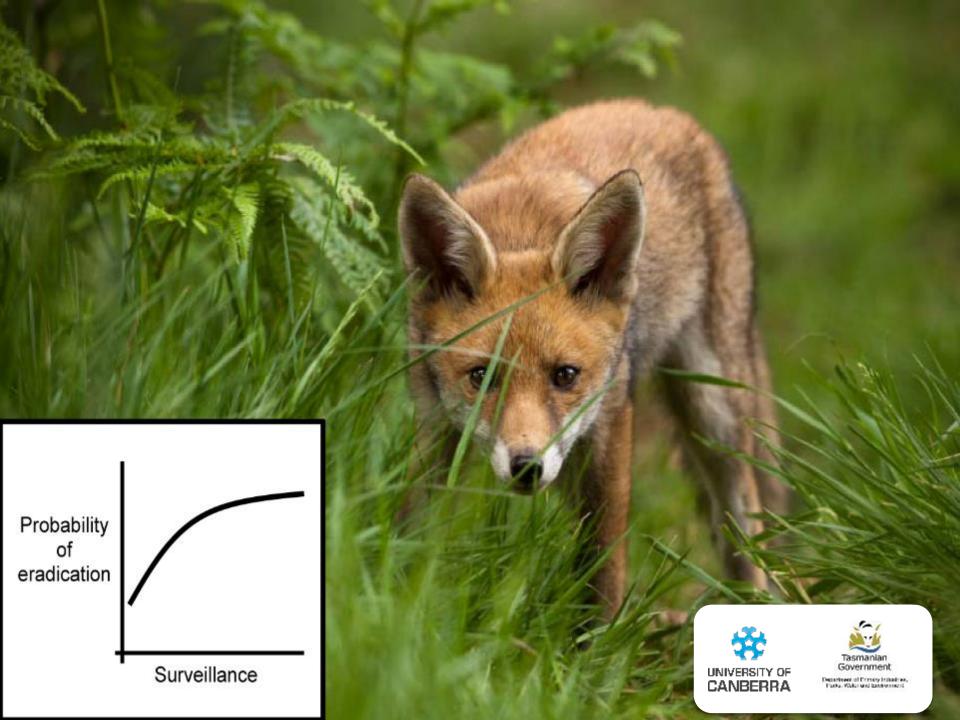
Thanks!



Genetic surveillance: emerging technology opportunities

ANDREAS GLANZNIG, CEO ASSOC. PROF DIANNE GLEESON, UNIVERSITY OF CANBERRA NATIONAL BIOSECURITY FORUM 2017, CANBERRA 2 NOVEMBER 2017













CENTRE FOR INVASIVE SPECIES SOLUTIONS



biomeme@biomeme.com







CENTRE FOR INVASIVE SPECIES SOLUTIONS

(A) Automated sampler and sequencing

Schematic of the key elements of an automated sampler and sequencer to be distributed across a global array of sample points

Sample mechanism

DNA extractor and reagents pack

Sequencer and communication pack

Battery/solar pack and processor

(B) Global array of samplers and in-cloud network reconstruction

Sequences in all uploaded samples are identified and the implicit interactions reconstructed into networks using machine learning in the cloud

LoRa

(C) Analysis across highlyreplicated networks

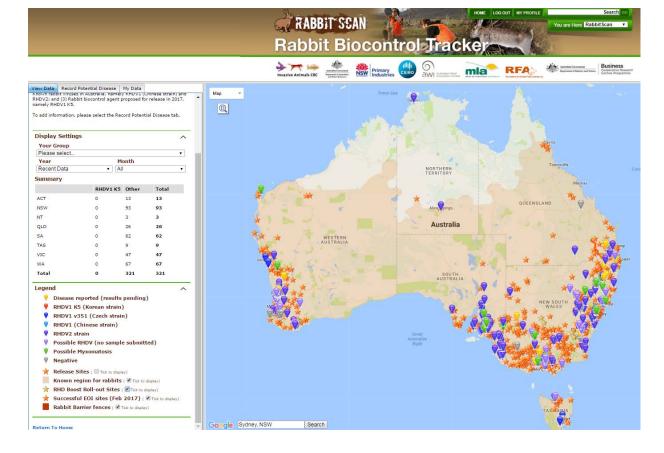
Detection of change in network structure, from analysis of variation between networks, across the sample array



Integrate with community-led surveillance platform



CENTRE FOR INVASIVE SPECIES SOLUTIONS











INVASIVE SPECIES SOLUTIONS

Thank you.

Questions



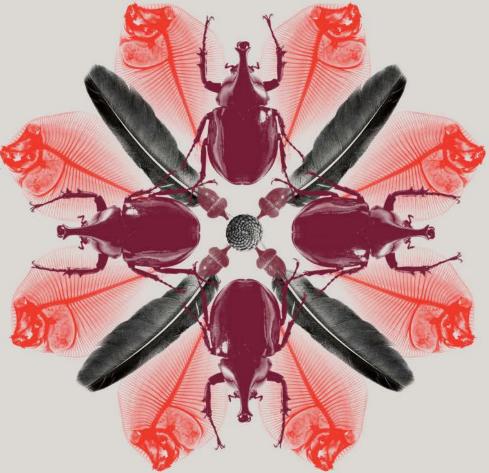


and Water Resources

Workshop

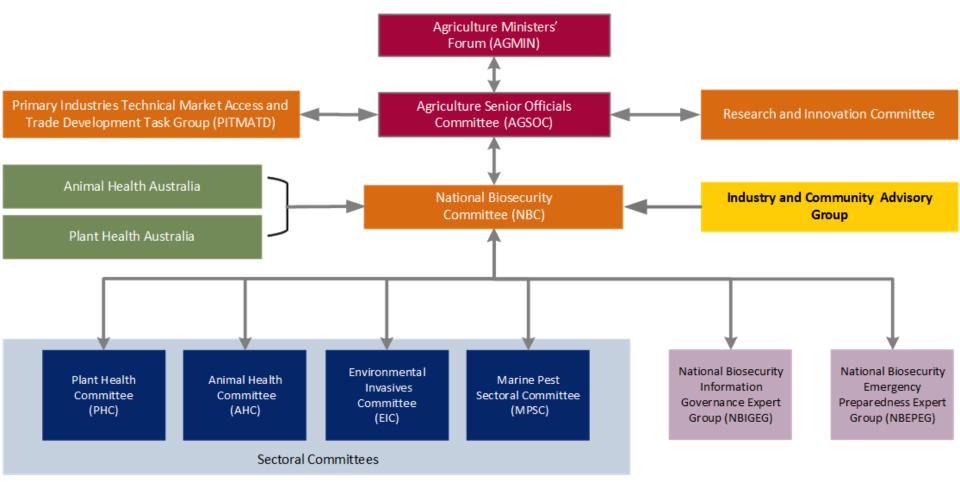
Developing an industry and community advisory group

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2 November 2017

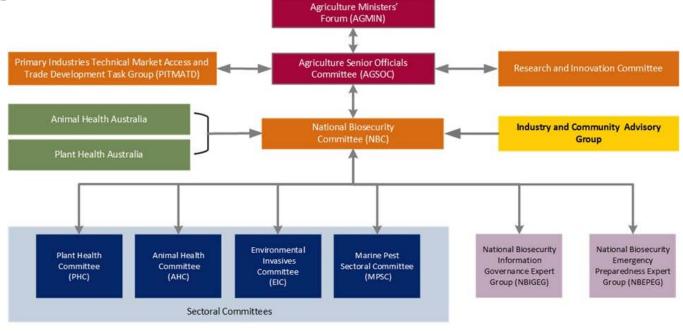
Structure of committees



Roles of the advisory committee

What roles do you think the advisory group should have?

Thinking about the structure of existing committees, advisory vehicles and your knowledge of the needs in your industry and community areas – please discuss as a table.



Poll everywhere

Text:

BIOSECURITY

To:

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Department of Agriculture and Water Resources

What sort of structure would you like to see the advisory group have?

A. Big group open to everyone

- B. Group made up of representatives from environmental, community and industry groups
- C. Depending on the topics being discussed, only representatives with an interest in the topic

How would you prefer the Group to meet?

A. Face to face

B. Teleconference

C. Face to face and teleconference

D. Online – using 'Have your Say' or another online group forum

Do you want to be consulted on specific topics?

Please text no more than **three** suggestions.

If you are representing an industry body or community group, you may not be able to consult with your members prior to the Advisory Group meeting – would this affect your involvement in any of the following ways?

A. No

- B. Yes negatively
- C. Depends on the issue being discussed
- D. Yes delay decisions

If there were no payment, travel allowance or fees paid to members of the Advisory Group, would this affect your involvement?

A. No

B. Yes

Thank you

We welcome your feedback on this session.

Please email <u>biosecurityroundtable@agriculture.gov.au</u>

Or visit agriculture.gov.au



Morning tea

Please return to your seats by 11:30am

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Department of Agriculture and Water Resources

Industry Representation

Year in Review

#natbioforum2017

Doug Phillips – Australian Banana Growers Council

2 November 2017



National Biosecurity Forum Bananas TR4 Experiences



Doug Phillips for Australian Banana Growers' Council

Australia's banana industry



15-2

- Australia's largest single horticulture industry
- \$600 million annual farm gate value
- Contributes more than \$1billion annually to national economy



AUSTRALIAN BANANA INDUSTRY CONGRESS 2015 Change. Challenge. Opportunity.

Australia's banana industry

30 - 2 3



 Approx. 95% of Australian bananas grown in North Queensland



AUSTRALIAN BANANA INDUSTRY CONGRESS 2015 Change. Challenge. Opportunity.

Australia's banana industry



- Approx. 95% of production are the Cavendish variety
- Lady Finger next most significant variety



AUSTRALIAN BANANA INDUSTRY CONGRESS 2015 Change. Challenge. Opportunity.



- Caused by the soil-borne fungal pathogen *Fusarium oxysporum* f. sp. cubense or Foc
- Also known as Fusarium wilt of banana or Panama disease
- Regarded as the world's worst banana plant disease



- Four races of Panama disease
 - Race 1 Ladyfinger, Ducasse, Gros Michel & Sugar
 - Race 2 Cooking bananas
 - Race 3 Heliconia species and not bananas
 - Race 4 Cavendish and all other commercial varieties
- Tropical vs Sub-tropical Race 4



What does it do?

• Affects the vascular tissue of the plant preventing the movement of water.





Panama disease is spread by:

- Plant material
- Soil
- Water





Panama disease particularly difficult

- Cannot be controlled / destroyed in field
- Relatively long time between infection and expression of symptoms
- Can survive for decades even without the presence of bananas
- Taking away the host does not remove the biosecurity risk
- What are the alternative uses for land known to be infected



- TR4 detected in the Northern Territory in 1997
- Believed to have been present for 3 – 5 years before identified
- Approx 6-8 commercial growers at time of detection
- Reduced to 1 in about 5 years



Timeline of key events in QLD incursion:

- 10 Feb 2015 Tully farm owner reports odd plant to ABGC Field Officer
- 4 March 2015 announcement of 1st suspect detection in Qld (PCR +ve), farms (1IP and 2SP) quarantined
- 9 April 2015 2nd Detection announced on Mareeba farm and farm quarantined
- 26th & 27th April Harvest of fruit recommences
 under interim protocol



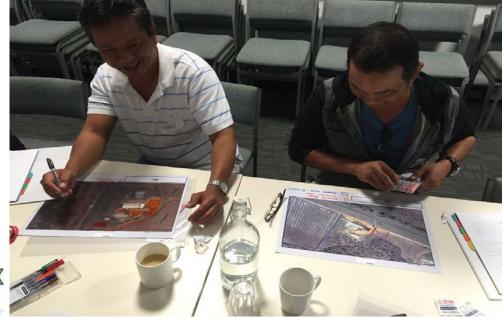
19 May 2015 – TR4 diagnosis for Mareeba farm announced as false positive, quarantine on it revoked

Banana

Timeline continued:

 May '15 to Nov' 16 - ABGC runs a national TR4 biosecurity training

program





Timeline continued:

- 24 Oct 2016 ABGC eventually succeeds in buying infected farm, with a loan and grant from Aus Govt and grower support via national ballot for a new levy to repay it.
- Growers agree to ABGC strategy: contain disease to buy time for research results
- ABGC then destroyed all 170 ha of bananas, erected pig proof fencing and security cameras, with a grant from Qld Govt



205-22



Timeline continued:

- 4 July 2017- Another Tully farm owner reports suspect plants to BQ
- 11 July 2017 BQ announce this as suspect TR4 (PCR +ve)
 - it is largest banana farm in Aust
 - 3K west of 1IP
 - notice of "TR4 affected land" issued
 - industry nervous but happy: 28 months between the 2 detections, so less spread than in other countries
- 24 July 2017 TR4 confirmed on second property

Queensland TR4 response



Discussion / Issues

- 1. Why successful containment to date:
 - i) ABGC and both Governments working together:
 - ii) Focus on containment
 - iii) Early reporting/detection
- 2. Eradication not technically feasible and containment critical
- 3. EPPR Deed not triggered, therefore no formal compensation mechanism
- 4. Adoption of on-farm biosecurity critical

CONGRESS 2015 Change. Challenge. Opportunity.

Queensland TR4 response

Discussion / Issues continued

- 5. Currently no real alternative use for infected land
- 6. Industry is continuing to learn and adapt as part of this response
- 7. Government support is critical to the successful containment of TR4
- 8. Community issue not just a banana industry issue
- 9. Need to make decisions without all the information



Thoughts for other industries



- Good biosecurity is a foundation of sustainable production
- On-farm biosecurity needs to be adopted, not just promoted
- Think now about your industry's biosecurity risks and potential responses
- Conduct training



Future of the banana industry



- There is a future for the Australian banana industry
- We're part of a global effort to address TR4







Australian Government

Department of Agriculture and Water Resources

Industry Representation

Year in Review

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John McDonald – Nursery and Garden Industry Australia

2 November 2017



Biosecurity Overview

Nursery Production

2017



National Biosecurity Roundtable

02 November 2017





John McDonald National Biosecurity Manager





NGIA-

Nursery Production Supply Chains

Nursery Production in Australia

- Located in every state & territory a broadly dispersed industry, underpinning most horticulture plant industries (urban & regional), propagating 10 000+ cultivars across all cropping systems.
- A national annual value of approximately \$3 billion. Tracking along the same trajectory as agriculture, in general, with businesses increasing in size and capacity supplying high volume national markets.
- Multiple supply chains:
 - Urban retail e.g. Bunnings, retailers, etc.
 - Landscape greenlife e.g. Urban development.
 - Fruit & Vegetable e.g. Citrus, tomato, capsicum, etc.
 - Forestry e.g. Pine or eucalypt timber plantations.
 - Revegetation e.g. Riparian zones & mine sites.



Nursery Production – Supply Chains Value

National value of horticultural sectors supplied by

Production Nursery	Horticultural markets	Economic value		
Container stock ¹	Ornamental/urban horticulture	\$2 billion retail value		
Foliage plants ¹	Indoor display/hire	\$87 million industry		
Seedling stock ²	Vegetable growers	\$3.3 billion industry		
Native and exotic forestry stock ³	Plantation timber	\$1.7 billion industry		
Fruit and nut tree stock ²	Orchardists (citrus, mango, etc)	\$5.2 billion industry		
Landscape stock ¹	Domestic & commercial projects	\$2 billion industry		
Plug and tube stock ²	Cut flower growers	\$700 million industry		
Revegetation stock ¹	Farmers, Government, Landcare	\$109 million industry		
Mine site revegetation	Mine site rehabilitation	Value unknown		
	Total Horticultural Market Value	\$15.0 billion		

¹ Freshlogic (2008) Australian Garden Market Monitor for the Year Ending 30 June 2008

² Horticulture Australia Limited (2004) Australian Horticultural Statistics Handbook

³ Australian Bureau of Agricultural and Resource Economics (2008). Australian Forest and Wood Products Statistics



Industry Biosecurity Initiatives

• BioSecure HACCP

- National agreement by jurisdictions to recognise BioSecure HACCP
- First non-government legal market access program for plant products
- NGIA approved for a <u>3 year National</u> trial (2016 2019)
- Legal Authorities in place: QLD, NSW, VIC, TAS, SA with NT & WA progressing
- Qld Biosecurity Act 2014 amended to allow third party programs to operate.

• National Nursery Industry Biosecurity Program

- Levy funded to 2020
- 4 Themes:
 - On-farm Biosecurity BioSecure HACCP
 - Biosecurity Preparedness EPPRD
 - Biosecurity Awareness Communication and R&D
 - Minor Use Pesticide Program pesticide approvals
- Additional component for WA TPP T2M plus biosecurity program activities.

• Building Resilience & On-farm Biosecurity Capacity in the Australian Production Nursery Industry

• DAFQ project across diagnostics, pest fact sheets & management plans, contingency plans & workshops.



Plant Biosecurity – 2017 National Exposure

- On average Australia records between 30 40 plant pest incursions <u>each</u> year. _{source: Plant Biosecurity CRC}
- Current ongoing responses of note to nursery production include:
- Red imported fire ant (QLD Eradication plan)
- Chestnut blight (Vic Response Plan)
- Banana freckle (NT Response Plan)

- Electric ant (Qld Eradication plan)
- Giant pine scale (Vic & SA Response Plan)
- Tomato potato psyllid (WA Response Plan)







NGIA - EPP Incidents 2017 (1 January to 31 October)

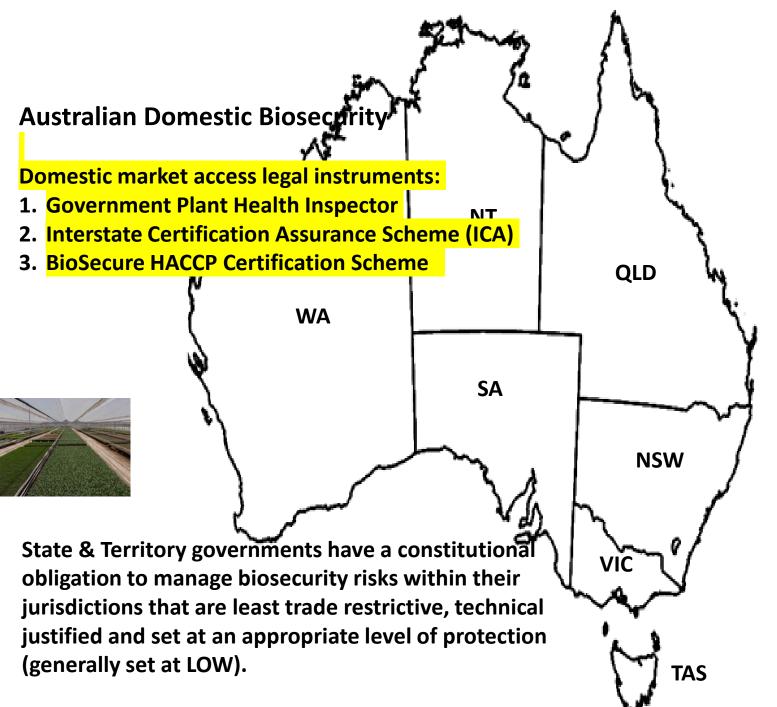
Scientific name (common name)	Lead Agency
1. Austropuccinia psidii (Myrtle rust)	Cwlth (Norfolk Is)
2. Bactericera cockerelli (Tomato potato psyllid)	WA
3. Candidatus Liberibacter solanacearum (Vegetative disorder)	NSW
4. Collophora rubra	VIC
5. Dickeya dianthicola (Black leg of potato)	WA
6. Enterobacter cowanii	QLD
7. Eriophyes cf. exilis	TAS
8. Kilifia acuminata (Acuminate scale)	QLD
9. Lasiodiplodia citricola	SA
10. Liothula omnivora (Common bag moth)	NSW
11. Papaya meleira virus	QLD
12. Perenospora belbahrii (Downy mildew of basil)	QLD
13. Puccinia striiformis f. sp. tritici, pathotype 64E64A	VIC
14. Trionymus sp. (root mealybug)	TAS
15. Wahlgreniella nervata (Strawberry tree aphid)	WA

NGIA - EPP Incidents carried over & actioned during 2017

Scientific name (common name)	Lead Agency
1. Anoplophora glabripennis (Asian longhorn beetle)	WA
2. Aphis forbesi (Strawberry root aphid)	WA
3. Colletotrichum brevisporum	QLD
4. Colletotrichum ocimi	QLD
5. Corynespora smithii	VIC
6. Dickeya zeae	NT / QLD
7. Grapevine pinot gris virus	NSW/SA
8. Lasiodiplodia brasiliensis (Grape dieback)	QLD
9. Melon Necrotic Spot Virus	NSW/VIC
10. Pantoea stewartii subsp.nov of papaya	WA
11. Papilio demoleus malayanus (Lime swallowtail)	QLD
12. Pepper vein yellows virus	WA
13. Phoma bellidis	VIC
14. Phyllotreta chotanica (Radish flea beetle)	WA
15. Pseudoplagiostoma sp. nov	QLD
16. Ramularia collo-cygni	TAS
17. Rugonectria castaneicola	NSW
18. Trichoferus campestris (Velvet longicorn beetle)	QLD

Tomato Potato Psyllid (TTP)

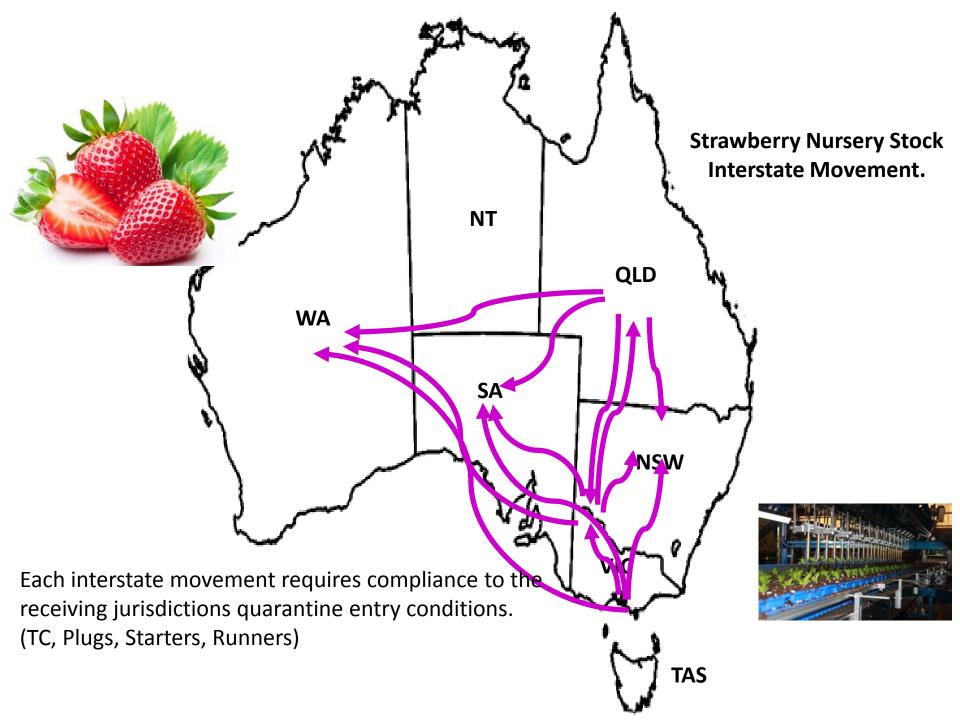
- WA reported detection to OCPPO on 3 Feb 2017 ☑
- OCPPO convened CCEPP 6 Feb 2017 ☑
- NGIA noted a clear collective purpose from all parties $\ensuremath{\overline{\mathsf{M}}}$
 - Offers of assistance provided by parties \mathbf{V}
- The decision regarding EPP status of TPP was made promptly ${ar {\it v}}$
- Agreement on dealing with a potential complex (TPP + Clso) ✓
 - Double edged sword rapid EPP determination/Clso emphasis around trade
- Surveillance in WA was implemented \mathbf{V}
- Timely implementation of a Response Plan in the initial stages $\overline{\mathbf{M}}$
 - Parties met in Melbourne to develop a framework collaborative
- Completion of a Response Plan problematic 🗵
- Establishment of market access problematic
- Transition to Management positive collaborative planning (Melb Workshop) ✓
- Completing and instigating T2M − problematic
- 🖾 NGIA considers these areas are a reflection of under resourcing in plant health



21/03/202

National Structure IGAB NBC PHC SDQMA Working Groups





A harmomised domestic biosecurity system!

Labelling (specifically stated in movement control regulations – other than ICA)								
Item	QLD	NSW	VIC	SA	NT	WA	TAS	
Botanical name	X	×	×	X	×	\checkmark	\checkmark	
Description of consignment	X	×	×	×	\checkmark	×	×	
Producer name	×	\checkmark	×	×	\checkmark	\checkmark	\checkmark	
Producer address	X	\checkmark	×	X	\checkmark	\checkmark	\checkmark	
Packer name	×	\checkmark	×	×	\checkmark	\checkmark	\checkmark	
Packer address	X	\checkmark	X	×	\checkmark	\checkmark	\checkmark	
Locality/district of production	×	\checkmark	×	×	×	\checkmark	×	
Consignee name	X	×	×	×	\checkmark	×	×	
Consignee address	×	×	×	×	\checkmark	×	×	
5mm lettering	X	X	X	\checkmark	\checkmark	\checkmark	×	

A harmomised domestic biosecurity system!

Inspection rates (generally)								
Item	QLD	NSW	VIC	SA	NT	WA	TAS	
600 only	\checkmark	×	\checkmark	×	X	\checkmark	×	
2% only	×	×	×	×	X	\checkmark	×	
600 or 2%	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	×	\checkmark	
600 or 2 % whichever is >	\checkmark	\checkmark	×	\checkmark	X	X	\checkmark	
Other rates	X	×	×	×	X	\checkmark	×	

Importer requirements for certified commodities								
Item	QLD	NSW	VIC	SA	NT	WA	TAS	
Registration /accreditation	×	×	☑ (RIFA)	\checkmark	×	\checkmark	\checkmark	
Inspection	X	×	☑ (RIFA)	\checkmark	May	\checkmark	\checkmark	
					require			
Notification	×	×	☑ (RIFA)	\checkmark	May	\checkmark	\checkmark	
					require			

A harmomised domestic biosecurity system!

Harmonised Movement Conditions (excluding ICA's)								
Item (Pest)	QLD	NSW	VIC	SA	NT	WA	TAS	
Tomato Yellow Leaf Curl Virus	N/A	\checkmark	\checkmark	N/A	N/A	×	\checkmark	
Spiraling whitefly	N/A	×	×	?	N/A	×	×	
Green snail	N/A	\checkmark	\checkmark	×	×	N/A	\checkmark	
Citrus red mite	N/A	\checkmark	×	\checkmark	N/A	×	×	
Potato cyst nematode	\checkmark	×	N/A	\checkmark	N/A	×	×	
Myrtle rust	N/A	N/A	N/A	×	N/A	×	×	
Red imported fire ant	N/A	×	×	\checkmark	\checkmark	×	×	
Blue berry rust	N/A	N/A	N/A	X	×	×	×	
Silver leaf whitefly	N/A	N/A	×	X	N/A	N/A	×	
Melon thrips	N/A	X	×	X	N/A	X	×	
Tomato potato psyllid	×	×	×	×	×	N/A	×	

Risks & Impacts on the Biosecurity System

• The economic cost to industry of a failure to harmonise is increasing

- · Losing or cancelling markets impacts on business profitability
- Inability to access new genetic material limits production and reduces efficiencies
- Labour costs in managing compliance are increasing
- Compliance costs in all jurisdictions for plant producers are increasing

• Considerable industry confusion in interpreting legal obligations

- Plant Health Inspectors can vary in their interpretation adding to the confusion
- Difficult for industry to access information on entry conditions

• Non-compliance due to complexity and loss of faith in the system

- Non-reporting of potential EPP's by industry a real emerging concern
- Producers failure to comply due to complexity and cost system at risk.

• Undermining of system creditability due to inconsistency across jurisdictions

- Industry belief and support of the biosecurity system is being eroded
- Lack of participation by industry in national initiatives e.g. surveillance

• Reduced access to new and improved plant products

- International licensing of varieties limits access points for growers domestically
- New genetic material not traded across all jurisdictions due to entry conditions/cost

Harmonising the domestic biosecurity system:

- National domestic pest risk analysis framework
- Guidelines for drafting domestic entry conditions
- Harmonised entry conditions for pests of quarantine concern
- Uniform administrative requirements e.g. labelling, packing, consignment info
- Agreed definitions for all movement control terminology
- Standardised Plant Quarantine Manual format and storage site
- Standardised documents e.g. plant health certificate/biosecurity certificate
- Remove import inspections for consignments meeting a specific entry condition
- Adoption of electronic certification system/data management







Thank You











Australian Government

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Industry Representation

Year in Review

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Rob Kerin – South Australia Oyster Growers Association ^{2 November 2017}



SOUTH AUSTRALIAN OYSTER INDUSTRY

State of Play

>1st February 2016 POMS discovered in Tasmania

- Borders immediately closed to spat deliveries
- Industry initiated stock standstill
- All Tasmanian spat deliveries in the previous 7 days to be reported
- > All bays tested & results negative for POMS
- >16 farms received spat from Tasmania, results negative for POMS

NSAOGA mot regularly with Department of

- SAOGA met regularly with Department of Primary Industries & Regions (PIRSA)
 - Manage the current situation
 - Determine future actions to assist the industry
- >An assistance package developed
 - Emergency funding provided to ramp up the production of the 2 SA hatcheries
 - SA Research & Development Institute (SARDI) requested to produce spat for the industry
 - Biosecurity increased

- SAOGA managed allocation of spat to industry
 - Sustainable Aquatic Industries & Kellidie Bay Hatchery
 - > 2mm spat commenced delivery September 2016
 - > 74m delivered between September 2016 July 2017
 - > SARDI
 - > 2mm spat commenced delivery November 2016
 - > 30m delivered between Nov 2016 June 2017
- Cameron of Tasmania
 - Joint venture with SAM Abalone Port Lincoln
 - > 30m delivered since May 2017
- Eyre Shellfish
 - New hatchery opened Cowell July 2017
 - On track to deliver 5mm spat from November 2017

Major mortalities with 2mm spat – average 50%Why?

- ► Size
- Environmental factors
- Currently approx. 70m spat in the water since Feb 2016
- Normal yearly spat purchases in excess 200m
- Shortage of oysters will start prior to Xmas 2017

Industry 'State of Play' paper being developed

- Numbers being collected on projected sales through 2018/19
 - Preliminary numbers indicate sales will be approx. 30% of normal sales
 - More than 80 FTE lost so far.
- > PIRSA/SAOGA developing forecasts
- SAOGA consulting with local, state & federal governments
- Identifying what assistance is available
 - Rural Business Support Services
- Paper to be used to work with all relevant bodies to provide assistance

Looking Ahead

- Adequate spat provided by mid 2018
- Normal supply expected to return mid 2019
- Marketing strategy required to let retailers/consumers know when oysters are back!
 - Initial discussions with FRDC already occurred
 - SA & Tassie need to work together to get funding
- Long term SA industry will be stronger & more resilient



Australian Government

Department of Agriculture and Water Resources

Bringing community, industry and environment together

#natbioforum2017

Magali Wright

2 November 2017





Building a culture of good biosecurity practices

Magali Wright, NRM South mwright@nrmsouth.org.au









Biosecurity Network:

Building a culture of good biosecurity practice

- Vision That Check, Clean, Disinfect, Dry becomes universal practice in Tasmania
- Delivering a shared communication action plan including consistent, layered messages tailored for direct engagement of different user groups



Our approach:

- Focus on prevention rather than the problem species
- Tailor messages for high risk activities
- How: Hygiene protocols (CCDD) and other biosecurity controls
- Who: everyone moving around Tasmania's natural and productive landscapes
- When: with every visit



What we do

- Biosecurity Network coordination of member biosecurity activities and communications to share effort and resources
- NRM South supports on-ground community projects, direct engagement, tailored support, provision of biosecurity kits and products





Biosecurity Network projects

- Shared communications plan
- Shared displays at key events
- How to videos
- Signage
- Biosecurity training for hobby farmers
- Biosecurity survey





www.nrmsouth.org.au/biosecurity



1:40

Direct engagement and tailored support

- Biosecurity planning for specific community events and activities
- Community groups, tourism operators, farmers and event organisers



On-ground community projects and biosecurity kits

Two models for on-ground community projects

- Specific Biosecurity EOI
- Biosecurity funding incorporated into NRM South grants



Supporting people to work together



www.nrmsouth.org.au/biosecurity

ACTIVITY RESOURCES

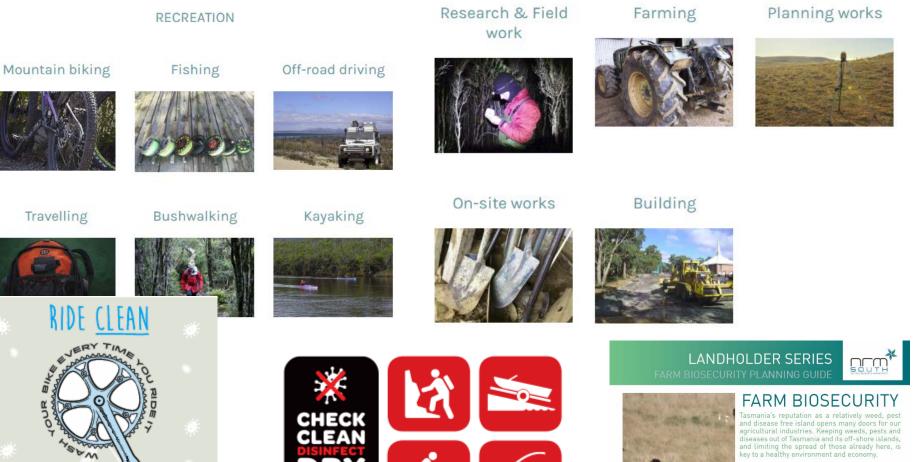
WORK

Click on the resource links below for how-to information on Check, Clean, Disinfect, Dry practices for your activities.

ENVIRONMENTAL NASTIES

FROM SPREADING THROUGH TASMANIA

nrmsouth.org.au/rideclean



It hosecurity risks are not mutipated. Farm biosecurity is a set of measures human health can be impacted and put in place to protect a farm from a whole industry closed overnight. the entry and spread of weeds, pests. Public proception of risks can be as and densess. It can be any activity damaging to an industry as real. that reduces the likelihood of the risks. The government, industry and introduction and spread of unwanted community all have a role to play organisms. Orderstaing large in activities that help to maintain biosecurity activities can benefit fasmania's ensuble reputation. Term protibability uniproving the

Resources

NRM South

- Website www.nrmsouth.org.au/biosecurity
- Videos for fishers, bushwalkers, kayakers, researchers and more
- Keeping it Clean manual
- Hygiene kits
- Demonstration bootwash down

Biosecurity Tasmania

• On-line resources on pests, weeds and pathogens

Livestock Biosecurity Network

- Farm-based Biosecurity Action Planning
- On-line checklist

Parks and Wildlife

- Bootwash down stations
- Discovery Rangers
- Mobile hygiene units

NRM North

Mountain bike washdown unit





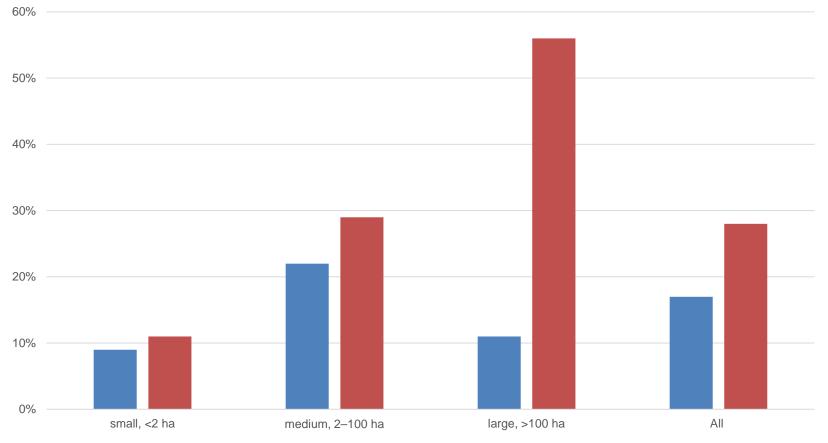


What we have learned

- Coordination and facilitation is key to projects highlighting agricultural and environmental biosecurity
- Identifying buy-in for each partner
- Maintain contact and work on practical solution over time
- Highlight the shared cost and impact of poor biosecurity practices
- Annual survey to aim program design acts as engagement tool



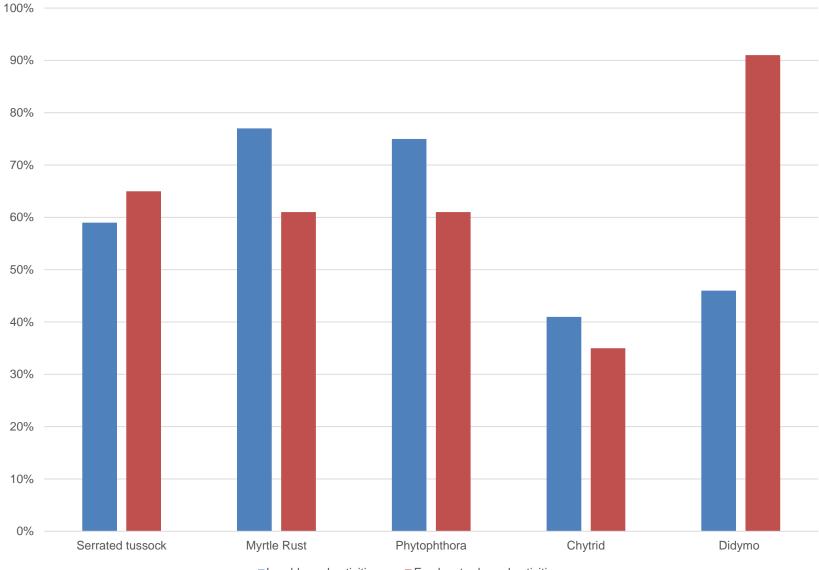
Farm Biosecurity planning



2016 2017



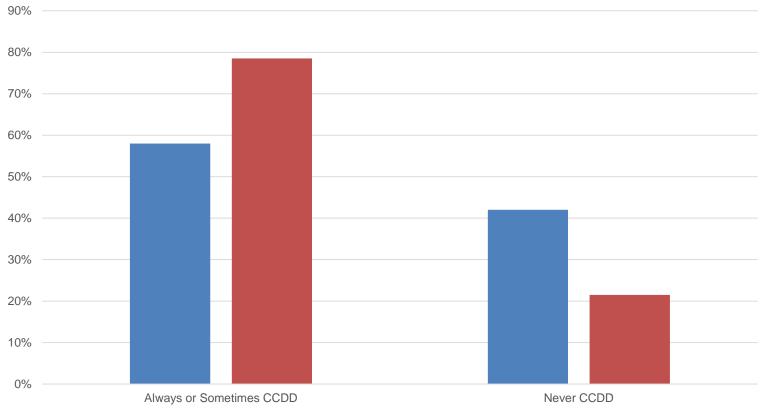
Awareness of biosecurity threats



Land-based activities

Freshwater-based activities

Are people using CCDD?



Discovery Ranger surveys
Winter surveys



Moving forward

- Under NLPP2 there is a separation of funding for agricultural and environmental biosecurity
- Environmental biosecurity only linked to nationally significant assets
- Momentum and partner involvement in our coordinated approach
- Replicable model



Lunch

Please return to your seats by 2:00pm

#natbioforum2017

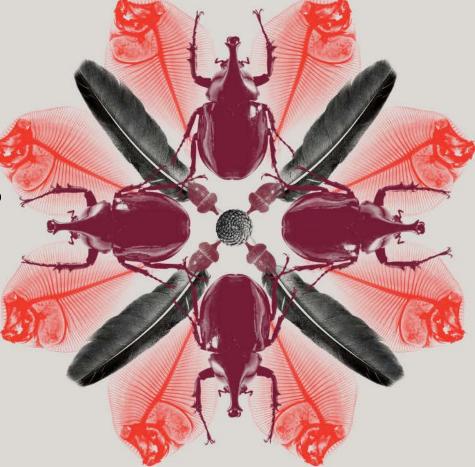


Australian Government

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Barriers to reporting – what are they and how do we break them down?



Karina Keast

2 November 2017

Early reporting is important

- We have systems in place to respond quickly to the detection of pests and diseases
- Rapid intervention and response can potentially minimise the spread and impact of a pest or disease.
- Industry surveillance remains an important source of information
- Reluctance to report is regularly identified in literature reviews and surveys
- What does our biosecurity community think?

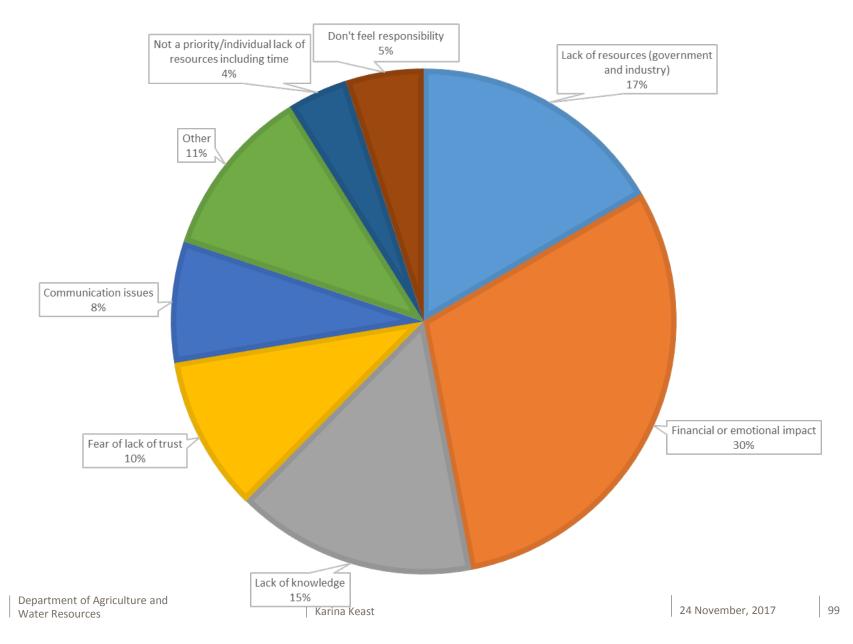
Our biosecurity community



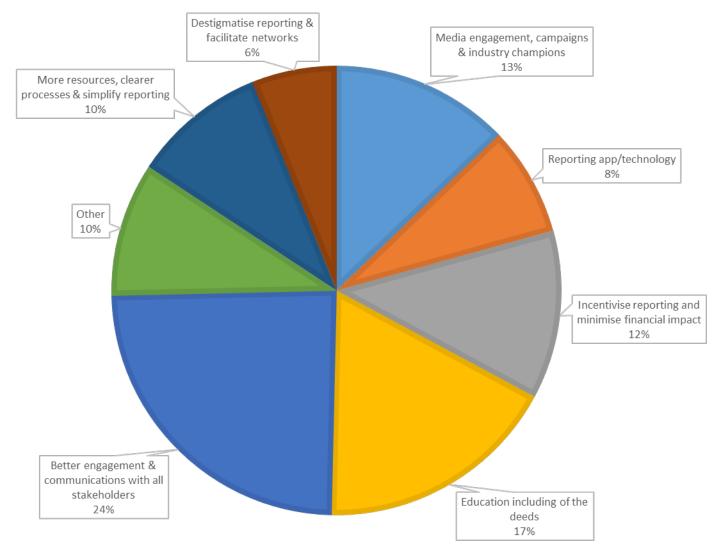
Why don't people report pests or diseases?

- Biosecurity does not relate to daily life not front and centre, don't actively look for information
- People don't realise how an incursion could affect their lifestyle
- Fear of the marketplace and being 'made an example'
- Fear of the response "the government will come and kill everything"
- Cultural attitude "she'll be right mate", "don't want to dob in the neighbour"
- "I don't have the resources" or "I don't know how to report"
- "I don't know what I'm looking for what if I'm wrong?"
- "It's not my job that's what government does"

WHY DON'T PEOPLE REPORT PESTS AND DISEASES?



HOW CAN BARRIERS BE ELIMINATED? HOW CAN WE ENCOURAGE REPORTING?



Breaking down the barriers...

- The information needs to come from the right person, the person I trust
- We should promote good news stories recovery, successful eradication not just the bad
- Why don't we celebrate and promote successful reporting by citizen scientists?
- Make better use of horticultural and agricultural media
- Make reporting easing make an app! and remove the stigma
- Make finding biosecurity information easy
- Teach 'em young biosecurity in schools

Government led actions

- A: Review existing and proposed material (websites, fact sheets etc) to ensure language is easy to understand and messages are consistent
- B: Scope the development of a national 1800 biosecurity hotline
- C: Broaden biosecurity engagement to include schools, retailers, zoos, museums
- D: Promote and/or develop biosecurity reporting apps
- E: Use and promote different forms of communication in different languages (eg Social media, YouTube, 'have your say', Public forums, mail outs, community leaders, trusted advisors)

Industry led actions

- A: Appoint industry biosecurity champions to deliver biosecurity messages
- B: Develop and actively promote real life stories/case studies from affected producers, especially good news stories
- C: Promote and/or develop reporting apps
- D: Education campaign focused on "it's ok to report" to reduce the stigma and fear associated with reporting
- E: Industry led, targeted biosecurity training

Where to from here?

- Report back to next year's national forum on actions taken to reduce barriers
- Use the state/territory roundtables to share messages, highlight solutions, build networks, launch resources...
- Can you share your experiences with another industry?

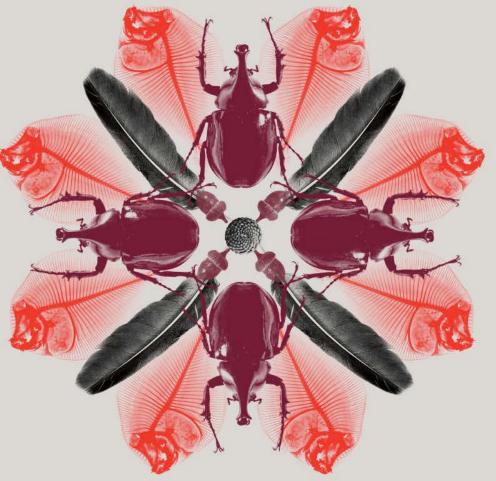
Thank you



Department of Agriculture and Water Resources

Workshop

Industry and community roles in biosecurity



Jo Laduzko

2 November 2017

Social Attitudes and Understanding of Biosecurity

The survey explored how biosecurity is understood within the broader community, the farming sector and producers who export their product.

Key findings from the survey:

- The general public has a very low understanding of biosecurity
- Shared responsibility is not readily understood by the community
- Biosecurity is seen as a word without a narrative
- Biosecurity plans are not a first priority for many
- Producers who export are more likely to understand biosecurity, shared responsibility and market access requirements



Community Perspectives

- 57% believe they know what biosecurity means but 28% of those people cant say what it means
- 87% had heard of quarantine, with 67% believing they know enough to determine the risk of thinks coming into the country
- 58% believe its government's responsibility to tell them the rules
- 53% believe the system is working because there has been no major outbreaks and 45% think it unlikely there will be an outbreak in the next 12 months

Understanding of the term biosecurity	%
Stopping pests and diseases	37
Protecting the environment	12
Bringing things into the country	4
Keeping areas safe from biological hazards	3
Making sure human diseases don't enter Australia	3
Keeping farms free of pests and diseases	3
Chemicals	2
Biology/Science Related	2
Germ/Chemical Warfare	1
Quarantine	1
Sustainability of Native Plants (i.e. a seed bank)	1
Keeping animals and plants healthy	1
Identity checks – fingerprints, eye scans	1
Genetically Modified Foods	1
Unsure	23
Don't know/ Refused	5

Community Perspectives

81% agree pests or diseases coming into the country could cause damage

79% agree that it is everyone's responsibility to stop this happening

66% were interested in which pests and diseases were of concern and what they should look out for

Few people have ever reported anything suspicious

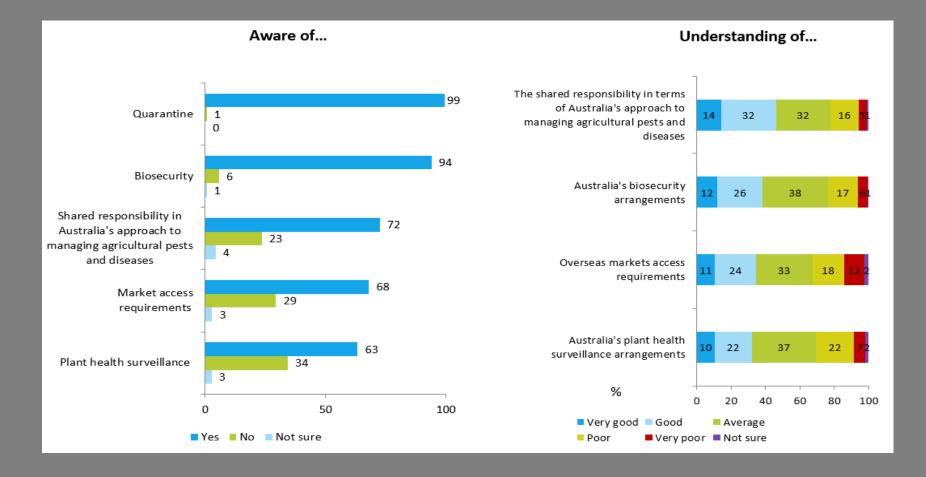
Most people don't know what sort of things they should report and don't know where to report



52% are interested in being involved in a community activity

A further 29% are ambivalent (but open to being persuaded)

Producer awareness and understanding of biosecurity



Producer awareness and understanding of biosecurity



describe biosecurity as



53%

but

biosecurity as controlling pests

22% don't know what

67%

of plant farmers

health surveillance

describe plant

checking their

88%

35%

knowledge of export

market access good

support Australia's



56%

biosecurity than they did 3 years

or very good. and

22% see biosecurity measures as securing or

implementing biosecurity

biosecurity plans

Experience-based (i.e. what they do on the farm) and not knowledge-based. They do what is required of them to meet market access certification.

32% don't know if their industry has a plan 59% don't have a biosecurity plan for their farm and 71% don't have a surveillance plan (within their biosecurity plan or separate) 36% don't keep monitoring or surveillance records (unless required)

shared responsibility

identifying and reporting

it costs farmers more. Not necessarily shared understanding. Want to see a plan to achieve its objectives

Agree in principle but when resources are cut

96% would report anything they couldn't identify

More would report IF they knew what to look for (had an easy reference guide), who to report to, and knew losing their product and/or market would be a last option

Responses to 'What stops you or your members from having a biosecurity plan?'

Not seen as relevant – never had an issue

Didn't know we needed one

Costs too high

Not valued

'Visitors' don't respect to rules anyway

No point as others don't have plans

No information or support

Too many other priorities

Responses to 'What might encourage the uptake of biosecurity plans?'

- Education around the advantages
- Readily accessible information and assistance, including industry mentoring
- Financial support
- Greater incorporation of plans into accreditation schemes, farm finance or government requirements

- Governments should enforce the laws
- Greater focus on industry/supply chain, region plans
- Increase community awareness to help manage risk
- Reduce complexity

What can we do to improve biosecurity planning outcomes?

Discuss what government, industry and community can do in this space – individually and together — to help.

Record as a group on the A3 paper on your table

Poll Everywhere

Question 1: What are the 1-3 things that would help your biosecurity planning?

Poll Everywhere

Question 2: In 2018, do you think you will:

- a. attend relevant state roundtables
- b. nominate a sister organisation to attend state roundtables
- c. attend only national forums
- d. attend both your state and national roundtables and forums
- e. encourage your state branches to attend state roundtables
- f. forward invites to other participants
- g. not attend any further meetings
- h. receive updates or available newsletters

Thank you



Australian Government

Department of Agriculture and Water Resources

Closing remarks



#natbioforum2017

Josephine Laduzko

2 November 2017

Afternoon tea

Thank you for attending the 2017 Biosecurity National Forum.

<u>Roundtable secretariat</u> 1800 068 468 Biosecurityroundtable@agriculture.gov.au

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