



FINAL REPORT 2014

For Public Release

Part 1 - Summary Details

Please use your TAB key to complete Parts 1 & 2.

CRDC Project Number: CA1201

Project Title: Biosecurity Training for growers & agronomists

Project Commencement Date: 18/07/2011 Project Completion Date: 30/06/2013

CRDC Research Program: 2 Industry

Part 2 – Contact Details

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Supervisor: (Name & position of senior scientist overseeing the project.)
Organisation:
Postal Address:
Ph: **Fax:** **E-mail:**

Signature of Research Provider Representative:

Date Submitted:

10/09/2014

Part 3 – Final Report

(The points below are to be used as a guideline when completing your final report.)

Background

1. Outline the background to the project.

Within the national framework for biosecurity, all commonwealth and state governments and plant industries who are signatories to the Emergency Plant Pest Response Deed (EPPRD) formally commit to preparations that include; surveillance for key biosecurity risks, a chain of command for reporting suspected incursions, decision making processes for responding to confirmed incursions and industry recovery from confirmed incursions.

Cotton Australia is the cotton industry member of Plant Health Australia Ltd. and signatory to the Emergency Plant Pest Response Deed. The EPPRD specifically requires signatories to undertake information and awareness of EPPRD requirements with their members to demonstrate response preparedness. This can be reported in the signatory annual Biosecurity Statement (Schedule 15).

During the 2008-13 CRDC Strategic Plan, CRDC worked with industry and state governments to implement routine surveillance for exotic diseases and commence the development of contingency planning for specific, high risk exotic incursions for industry to implement if the situations eventuate. State governments have instigated 'biosecurity training' for their research staff to increase researcher awareness of processes for reporting and responding to suspected and confirmed incursions.

The industry needed to do the same, creating a network of human capacity at the grass roots of the industry - growers and their RDOs, consultants and Cotton Australia Regional Managers - that are aware of the role they may play in an incursion event. The thinking and decisions taken in the early stages of an incursion may be critical in determining the feasibility of an eradication response.

This project undertook to raise grower and consultant awareness and knowledge of the processes that will occur in the event that a cotton biosecurity incursion is confirmed. A training workshop to achieve this was developed by Cotton Australia, Plant Health Australia, NSW DPI, DAFF QLD, Australian Department of Agriculture and CRDC program management.

The training workshop was then piloted with Cotton Australia staff and Board, modified and refined, and subsequently delivered to the CottonInfo team Regional Development Officers and an invited group of cotton growers and consultants.

Objectives

2. List the project objectives and the extent to which these have been achieved.

Plant Health Australia (PHA) conducts a National Emergency Plant Pest (EPP) Training Program on behalf of its Members. The aim of the program is to familiarise industry and government personnel with key elements of the Emergency Plant Pest Response Deed (EPPRD) and PLANTPLAN, to ensure that if an incursion occurs, all responsible Parties are familiar with their roles and responsibilities. In addition, all signatories to the EPPRD are required, where possible, to use trained and accredited personnel in an Emergency Plant Pest incursion response.

The training sessions focused on the following topics;

- The Biosecurity Awareness session (overview of the EPPRD and PLANTPLAN)
- Role of industry and local decision makers
- On-farm general biosecurity awareness (myBMP module and Cotton Farm Biosecurity Manual)
- Industry Liaison Coordinator and Officer training (formal roles under the EPPR Deed)

The aim of the workshops was for participants to be able to express;

- Awareness of the Emergency Plant Pest Response Deed (EPPRD) and the related roles and responsibilities of all signatories
- Knowledge of high priority pests of cotton
- Knowledge of best management practice for farm biosecurity and location of cotton biosecurity information and resources
- Understanding of key contacts and reporting commitments under the EPPR Deed

Initial workshop participants were selected for current roles in CottonInfo, Cotton Australia and CCA.

- Cotton Australia directors, policy and regional staff
- CottonInfo team Regional Development Officers
- Growers and Consultants (TIMS Committee representatives)

The workshop format also formed the basis of an active engagement session at the July 2012 Crop Consultants Australia Cropping Solutions Seminar and a Central Highlands regional biosecurity workshop in Emerald (July 2014).

Methods

3. Detail the methodology and justify the methodology used. Include any discoveries in methods that may benefit other related research.

This project undertook to raise grower and consultant awareness and knowledge of the processes that will occur in the event that a cotton biosecurity incursion is confirmed.

A training workshop to achieve this was developed by Cotton Australia, Plant Health Australia, NSW DPI, Australian Department of Agriculture and CRDC program management.

The training workshop was then piloted with Cotton Australia staff and Board, modified and refined, based on provider and participant feedback. The provider group developed a practical session based on an emergency plant pest incursion that was well received by participants in the longer workshop format.

Sydney metropolitan workshops incorporated a site visit to the Australia Department of Agriculture, Central-East Region quarantine and inspection facility, Roseberry NSW (formally AQIS). Operational science, laboratory and inspection activities demonstrated Commonwealth biosecurity services in practice.

There were a total of 22 presenters in 3 training activities over three years. Presenters were from eight key stakeholder organisations in biosecurity; Australian Department of Agriculture, Plant Health Australia, NSW DPI, QLD DAFF, CRDC, CSIRO, Cotton Australia and a Grains Biosecurity Officer.

The in-kind participation of a range of stakeholder personnel and provision of meeting and inspection facilities by the Australian Department of Agriculture and Cotton Australia was a significant contribution to the project.

The revised format was subsequently delivered to the CottonInfo team Regional Development Officers and an invited group of cotton growers and consultants.

This format also formed the basis of an active engagement session at the July 2012 Crop Consultants Australia Cropping Solutions Seminar and a Central Highlands regional biosecurity workshop in Emerald (July 2014).

Results

4. Detail and discuss the results for each objective including the statistical analysis of results.

Biosecurity awareness training was delivered to 30 participants from key industry groups over three years. Participants included growers, consultants, CottonInfo RDOs, Cotton Australia Regional Managers and CRDC and Cotton Australia Program Managers.

Participant evaluation and feedback has consistently shown that our training has;

- met participant expectations,
- set the content at the right level,
- achieved a balance of presentation, discussion and activities,
- provided clarity through a range of stakeholder presenters (DA, PHA, States, CRDC & CA) and
- increased awareness of industry and governments' roles in an emergency response situation.

Participants have also consistently indicated at the end of the training activities that they would participate in more advanced training delivered through PHA and including the Department of Agriculture and State agencies, and that more awareness training be provided to cotton industry participants, particularly growers and consulting agronomists.

Every training activity evaluation resulted in some comments indicating more time was needed for discussion and detailed understanding of issues and processes for biosecurity at the industry, state and Commonwealth level. However, this is a difficult requirement to incorporate into an agenda when time is limited.

It was also apparent from participant feedback that participants became more interested in biosecurity matters as training activities progressed and that active involvement, either through Department of Agriculture laboratory and inspection facilities, role-playing suspected biosecurity incursions and/or demonstration and discussion of machinery importation procedures, stimulated interest, involvement and personal investment in increasing biosecurity knowledge and awareness.

The more farm orientated active-learning style presentations and activities were highly valued in participant evaluations.

Outcomes

5. Describe how the project's outputs will contribute to the planned outcomes identified in the project application. Describe the planned outcomes achieved to date.

Participants in the initial round of Cotton Biosecurity Awareness Training included TIMS Committee representative growers and consultants, CottonInfo Regional Development Officers, Cotton Australia Regional Managers and CRDC and Cotton Australia Program Managers.

These industry groups were targeted to leverage their existing understanding and influence of industry processes of research development and delivery and for informed evaluation and feedback on the training format.

The training has increased awareness and knowledge of plant biosecurity in key influential groups within the cotton industry.

Participants also consistently indicated at the end of the training activities that they would participate in more advanced training delivered through PHA and including the Department of Agriculture and State agencies. Currently the only additional training offered by Plant Health Australia is in implementation of the Emergency Plant Pest Response Deed and specifically in designated roles for industry representatives in an Emergency Response. The industry needs to do more to facilitate this level of preparedness at the industry leadership level and creating a mechanism to prioritise this type of training would be of assistance e.g. new industry Board members each year.

Participant feedback was also that more awareness training be provided to cotton growers and consulting agronomists. The metropolitan training format provides an intense on-site experience and access to a range of experienced biosecurity practitioners, however, travel and time commitments can result in timing and commitment difficulties.

A key outcome of the initial industry training project may be the development of a regional engagement session format similar to at the Crop Consultants Australia Cropping Solutions Seminar (July 2012) and a Central Highlands regional biosecurity workshop in Emerald (July 2014).

6. Please describe any:-

- a) technical advances achieved (eg commercially significant developments, patents applied for or granted licenses, etc.);**
- b) other information developed from research (eg discoveries in methodology, equipment design, etc.); and**
- c) required changes to the Intellectual Property register.**

The training presenters piloted a role-play based a suspected biosecurity scenario for incorporation into the training. This resonated with participants as a practical way to consider the more theoretical presentations of elements of the Australian biosecurity continuum and was highly regarded in participant feedback.

Development of biosecurity awareness training appropriate for regional delivery would enable greater participation by growers and crop consultants due to reduced travel and time commitments.

The Grains industry has funded Biosecurity Officers for each bio-region and officers based in Toowoomba QLD and Orange NSW will assist in planned farm based training activities.

The CottonInfo team could be utilised to assist in the facilitation of regional awareness training.

Conclusion

7. Provide an assessment of the likely impact of the results and conclusions of the research project for the cotton industry. What are the take home messages?

Training participants generally rated their pre-training knowledge of biosecurity as moderate but the importance of biosecurity to the industry (and their businesses) as high. Undertaking one or two day awareness training didn't result in sufficient preparedness for an emergency plant pest response as ranked by participants, however, it did increase anticipated farm hygiene, vigilance and prompt reaction to unusual symptoms.

A greater understanding of the Australian biosecurity continuum can highlight the relative strengths and weaknesses of the national risk assessment based approach to biosecurity. However, it also emphasises that on-farm biosecurity is a critical safety-net for the national approach. Training participants are now aware that post-quarantine measures can be implemented effectively if irregularities are observed and correctly reported in a timely manner.

Information and activities that demonstrate the role of the Commonwealth and State Government agencies' can highlight the opportunities for effective industry participation in the national biosecurity framework. This is an advantage of involving small focused cotton industry groups through metropolitan training opportunities. However, regional training formats and resources need to be developed to leverage the training for larger numbers of growers and crop consultants.

Extension Opportunities

8. Detail a plan for the activities or other steps that may be taken:

- (a) to further develop or to exploit the project technology.**
- (b) for the future presentation and dissemination of the project outcomes.**
- (c) for future research.**

Formal development and documentation of the suspected biosecurity incursion scenario approach, utilising various High Priority Plant Pests of cotton would assist future delivery of biosecurity awareness training.

The Australian Department of Agriculture presentation on new and used machinery imports was the most consistently rated element of all training activities. Although aspects of policy and procedure in this area may be amended, it would be highly valuable to professionally capture a general audio/video presentation of the experiences of machinery importation personnel for regional training activities.

Examples of the leverage opportunity provided from developing the biosecurity training were evident in an active biosecurity engagement session at the Crop Consultants Australia Cropping Solutions Seminar (July 2012) and a Central Highlands regional biosecurity workshop in Emerald (July 2014).

A key element of cotton biosecurity is whole farm biosecurity and the involvement of State agency personnel and the Grains industry biosecurity officers adds to the importance of an integrated approach to biosecurity at the farm level.

In addition cotton consultants are on farm on a regular basis and are highly likely to be first identifiers of any unusual pest of cotton. The strong individual relationships between consultants and researchers in cotton may result in an informal reporting pathway that could result in a loss of valuable response time. Building knowledge of a purposeful identification and reporting procedure in the agronomy and crop consultant sector is an important biosecurity risk mitigation strategy for the cotton industry.

9. A. List the publications arising from the research project and/or a publication plan.

(NB: Where possible, please provide a copy of any publication/s)

B. Have you developed any online resources and what is the website address?

Part 4 – Final Report Executive Summary

Provide a one page Summary of your research that is not commercial in confidence, and that can be published on the World Wide Web. Explain the main outcomes of the research and provide contact details for more information. It is important that the Executive Summary highlights concisely the key outputs from the project and, when they are adopted, what this will mean to the cotton industry.

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During the 2008-13 CRDC Strategic Plan, CRDC worked with industry and state governments to implement routine surveillance for exotic diseases and commence the development of contingency planning for specific, high risk exotic incursions for industry to implement if the situations eventuate.

The Biosecurity Awareness Training project undertook to raise grower and consultant awareness and knowledge of the processes that will occur in the event that a cotton biosecurity incursion is confirmed. A training workshop to achieve this was developed by Cotton Australia, Plant Health Australia, NSW DPI, QLD DAFF, Australian Department of Agriculture and CRDC program management.

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These industry groups were targeted to leverage their existing understanding and influence of industry processes of research development and delivery and for informed evaluation and feedback on the training format. The training has increased awareness and knowledge of plant biosecurity in key influential groups within the cotton industry.

Training participants generally rated their pre-training knowledge of biosecurity as moderate but the importance of biosecurity to the industry (and their businesses) as high. Undertaking one or two day awareness training didn't result in sufficient preparedness for an emergency plant pest response as ranked by participants, however, it did increase anticipated farm hygiene, vigilance and prompt reaction to unusual symptoms.

Participants also consistently indicated at the end of the training activities that they would participate in more advanced training delivered through PHA and including the Department of Agriculture and State agencies. Participant feedback was also that more awareness training be provided to cotton growers and consulting agronomists as the most likely first identifiers of suspect or unusual pests. Building knowledge of a purposeful identification and reporting procedure in the agronomy and crop consultant sector is an important biosecurity risk mitigation strategy for the cotton industry.



Biosecurity Awareness & Training

Thursday 15th September 2011
Cotton Australia Boardroom,
Suite 4.01, 247 Coward St. Mascot
Commencing at 8am

TIME	TOPIC / SESSION
	Thursday 15th September
8.00am	Introduction: Cotton Industry Biosecurity – awareness & training day <i>Greg Kauter, Research Direction & Stewardship Manager, Cotton Australia</i>
8.15am	Background: Australian biosecurity system & Plant Health Australia <i>Stephen Dibley, Program Manager (Training & Biosecurity Preparedness) Plant Health Australia.</i>
8.45 am	EPPRD background (includes categorisation and ORCs) – 75 mins <i>Stephen Dibley, PHA</i>
10.00 am	Morning Tea
10.30am	Industry roles in an emergency response <i>Stephen Dibley, PHA</i>
11.00am	Cherie Gambley, Plant Virologist QDEEDI, Cotton Leaf Curl Disease
11.30am	Scenario discussion Including Chris Anderson, Plant Biosecurity Officer Plant Biosecurity Unit, NSW DPI
	Debrief and feedback
12.30pm	Lunch – Bezzini Café (please advise any dietary requirements prior)
1.30pm	Australia Quarantine & Inspection Service (AQIS) Regional Office site visit (Rosebery) – Dr David Nehl, Regional Program Manager, Operational Science, Central East Region AQIS. Overview of the laboratories and diagnostic processes
2.30pm	AQIS Operational procedures and new developments Australian Government Biosecurity Reform & biosecurity arrangements Function and scope of AQIS Post-Quarantine Detection (incl. second-hand picker imports)
3.30pm	Discussion & Feedback
4.00pm	<i>Close: Biosecurity – awareness & training day</i>

PARTICIPANTS

Presenters:

Stephen Dibley, Program Manager (Training and Biosecurity Preparedness) Plant Health Australia
 Cherie Gambley, Plant Virologist, Queensland DEEDI, Ecosciences
 Chris Anderson, Plant Biosecurity Officer, Plant Biosecurity Unit, NSW DPI
 Rick Hawe, Regional Manager, Central East Region AQIS
 David Nehl, Regional Program Manager, Operational Science, Central East Region AQIS

Directors: TBA

Staff: Adam Kay, Michael Murray, Angela Bradburn, James Houlahan, Renee Anderson, James Hill, Sally Ceeney, David Bone and Greg Kauter.

Workshop evaluation

8 Cotton Australia participants

Cotton Industry Biosecurity Training Mascot, 15th September 2011

Now that you have completed the pilot cotton industry biosecurity training session, could you please reflect on the effectiveness of the training. This was the first training session between Cotton Australia and Plant Health Australia in three years so your honest feedback would be appreciated. Thank you.

	Agree	Undecided	Disagree	Not applicable
The content was relevant to me	8			
The content was at the right level for me	7	1		
There was too much content delivered for the length of the training	1		7	
Having both PHA, Researchers, DAFF and State DPI presenting was confusing and key messages were lost		2	6	
The balance of presentation, discussion and activities was about right	6		2	
The presenters responded well to participants needs	7	1		
I feel confident that I could apply the information presented in the course in an emergency response situation	4	4		
I would recommend this training to others	8			
I would participate in other training delivered through PHA	4			

What would you change or add for this program attended by CGA and CA representatives?

Or any other comments?

- *Excellent. The level of interaction, and informal approach with lots of opportunity to answer questions was great plus / especially the case-study scenario was a really useful learning technique.*
- *I would like to have heard more from Chris Anderson (NSW DPI). The PowerPoint from PHA was great. I was relieved to hear the information from AQIS. The tour to their facilities was good. I would have liked to watch them go over a truck full of fruit etc.*
- *Just a bit more time in the AQIS inspection and the lab facilities → maybe a morning visit when they are busier. The group responded really well to the practical scenario session in the training.*
- *The invited PHA, AQIS DPI and other special technical guests need to be given time and opportunity to present information and respond to questions/issues from their organisations perspective.*
- *Could have been better planned, structured (including providing some pre-workshop background information reading i.e. The CA Biosecurity guide, something on PHA, AQIS etc.*
- *From my perspective only this course would be not sufficient training for an emergency. Our CA Board Chair seemed to have reservations about the amount of documentation on the issue from industry's perspective. Probably (no definitely) would benefit from an industry/grower pre-course survey to help structure the course.*
- *It was an important and very interesting workshop, but it didn't sufficiently give enough information and guidance to allow CA to confirm its own protocols.*
- *Well Done! This is an important issue for the Australian Cotton Industry and a Pre-emptive proactive approach is needed.*



Advancing Australian Cotton

Biosecurity Awareness & Training

27th – 28th June 2013

**Cotton Australia Boardroom,
Suite 4.01, 247 Coward St. Mascot
Commencing at 10 for 10.30am start**

TIME	TOPIC/SESSION
Thursday 27th June	
10.00 am	Morning Tea – Cotton Australia, Level 4, 247 Coward St. Mascot
10.30 am	Introduction: Cotton Industry Biosecurity – awareness & training day <i>Greg Kauter, Research Direction & Stewardship, Cotton Australia</i>
10.45 am	Background: Australian biosecurity system & Plant Health Australia <i>Stephen Dibley, Program Manager (Training & Biosecurity Preparedness) Plant Health Australia.</i>
11.15 am	EPPRD background (includes categorisation and ORCs) – 75 mins <i>Stephen Dibley, PHA</i>
12.15 am	Industry roles in an emergency response <i>Stephen Dibley, PHA</i>
12.30pm	Lunch – Bezzini Café (<i>please advise any dietary requirements prior</i>)
1.30 pm	Scenario discussion Including; Lewis Wilson CSIRO, Chris Anderson Plant Biosecurity Unit, NSW DPI, Susan Mass CRDC and Stephen Dibley PHA.
3.00pm	Debrief and feedback
3.30 pm	Afternoon Tea
4 pm	Chris Anderson, Manager Plant Product Integrity and Standards, Biosecurity NSW – Texas Root Rot is an EPP. What is an EPP?
4.30 pm	Susan Mass, CRDC – Biosecurity Research
6.30 pm	Dinner: Graphic Arts Club, Mascot
Friday 28th June	
9.00 am	DAFF Regional Office site visit (Rosebery) David Nehl, Regional Program Manager, Australian Government Biosecurity Reform & new biosecurity arrangements
9.30 am	Iype Rajan, Assistant Director for plant exports – exports; phytosanitary certificates
10.00 am	Morning Tea
10.15 am	Geoff Popple/Simon Anderson - scope of DAFF Post-Quarantine Detection (incl. second-hand picker imports)
10.45 am	David Nehl, Operational Science Program, Central East Region DAFF
11.30 am	Overview of the laboratories, diagnostic processes & inspection facilities
12.00 pm	Depart for Cotton Australia
From 1 pm	Airport - check-in for departures etc.

Presenters:

Stephen Dibley, Program Manager (Training and Biosecurity Preparedness) PHA
Chris Anderson, Manager Plant Product Integrity and Standards, Biosecurity NSW
Lewis Wilson, Research Program Leader 'Cotton Management and Improvement' Senior Principal Research Scientist - Integrated Pest Management, CSIRO Plant Industry
Susan Mass, Research & Development Specialist (Biosecurity, Disease, IPM), CRDC

DAFF

Iype Rajan, Assistant Director for plant exports
David Nehl, Regional Program Manager, Operational Science, Central East Region
Geoff Popple, DAFF machinery inspection specialist



Advancing Australian Cotton

Biosecurity Awareness & Training

27th – 28th June 2013

**Cotton Australia Boardroom,
Suite 4.01, 247 Coward St. Mascot
Commencing at 10 for 10.30am start**

PARTICIPANTS

Thursday and Friday

John Smith, Regional Development Officer, Darling Downs
Alice Devlin, Regional Development Officer, Gwydir
Geoff Hunter, Regional Development Officer, Namoi/Bourke/Central Queensland
Amanda Thomas, Regional Development Officer, Macquarie
Kieran O'Keeffe, Regional Development Officer, Southern NSW
Sally Dickinson, Regional Development Officer, Border Rivers
Kerrily Blomfield, Regional Development Officer, Upper Namoi
Sandy Young, Regional Manager Cotton Australia, Narrabri
Alexandra Dalton, 2nd year undergraduate in B. commerce at Sydney Uni (Work Experience)
Susan Mass, Research & Development Specialist (Biosecurity, Disease, IPM), CRDC
Ian Taylor, Development & Delivery Program Manager, CRDC
Greg Kauter, Research Direction & Stewardship Manager, Cotton Australia
Susan Mass, Research & Development Specialist (Biosecurity, Disease, IPM), CRDC

Thursday only

Stephen Dibley, Program Manager (Training and Biosecurity Preparedness) PHA
Chris Anderson, Manager Plant Product Integrity and Standards, Biosecurity NSW
Lewis Wilson, Research Program Leader & Senior Principal Research Scientist CSIRO

Friday only

Kim McIntyre - Grains Biosecurity Officer, DAFF QLD, Toowoomba

Workshop evaluation form

10 RDOs & CA RMs (plus 5 presenters)

Cotton Industry Biosecurity Training - Mascot, 27- 28 July 2013

Now that you have completed the pilot cotton industry biosecurity training session, could you please reflect on the relevance of the training. In your comments on the issues covered think about your role in the industry and your expectations of Cotton Australia and Plant Health Australia. Thank you.

	Agree	Undecided	Disagree	Not applicable
The content was relevant to me	3			
The content was at the right level for me	3			
There was too much content delivered for the length of the training			3	
Having both PHA, Researchers, DAFF and State DPI presenting was confusing and key messages were lost	1		2	
The balance of presentation, discussion and activities was about right	3			
The presenters responded well to participants needs	3			
I feel confident that I could apply the information presented in the course in an emergency response situation	2	1		
I would recommend this training to others	2	1		
I would participate in other training delivered through PHA	2	1		

What would you change or add for this program attended by cotton industry representatives?
Or any other comments?

- *I found the scenario helpful.*
- *Really useful and well delivered.*
- *There could have been more time in the application of the presentations eg. In a "scenario".*
- *Scenario on Day 1 good.*
- *More on site visits or time good.*
- *Good training.*



Biosecurity Awareness & Training

27th August 2014
Department Agriculture
1 Crew Place, Roseberry

TIME	TOPIC/SESSION
8.00am	<i>Depart Hotel by Taxis - Dept. Agriculture 1 Crew Place, Roseberry</i>
8.15am	Welcome: Cotton industry biosecurity awareness & training day <i>Greg Kauter, Cotton Australia</i>
8.30am	Tour DA laboratories, diagnostic processes & inspection facilities David Nehl, Director, Operational Science Support, Central East Region, Department Agriculture
9.30am	<i>Morning Tea available</i>
9.45am	Overview; Agenda; - Why are we here? What do you want to get out of today? Why biosecurity matters? Cotton industry HPPs <i>Susan Mass, R&D Specialist (Biosecurity, Disease, IPM), CRDC</i>
10.00am	Australian Government biosecurity arrangements Wayne Burcher – Regional Manager Department Agriculture
10.30am	Background: Australian biosecurity system & Plant Health Australia <i>Stephen Dibley, Program Manager (Training & Biosecurity Preparedness) Plant Health Australia.</i>
11.00am	EPFRD background (categorisation and ORCs) <i>Stephen Dibley</i>
11.45am	EPFR - What an incursion looks like? Examples of response; scale; costs; how you might be affected on farm? Role of State Governments. <i>Louise Rossiter, Leader, Plant Pest Surveillance, Biosecurity NSW</i>
12.15am	Farm biosecurity – role of growers & consultants <i>Susan Mass</i>
12.30pm	Working Lunch
12.40pm	Iype Rajan - Exports & Imports; phytosanitary certificates, quarantine, etc.
1.10pm	Jordan James – Machinery imports
From 2pm	Airport - check-in for departures etc.

Presenters:

Stephen Dibley, Program Manager (Training and Biosecurity Preparedness) PHA
 Louise Rossiter, Manager Plant Product Integrity and Standards, Biosecurity NSW
 Susan Mass, Research & Development Specialist (Biosecurity, Disease, IPM), CRDC

DA

Wayne Burcher – Regional Manager, Department Agriculture
 David Nehl, Regional Program Manager, Operational Science, Central East Region
 Iype Rajan - DA Imports – plants etc.
 Jordan James - DA machinery inspection specialist

PARTICIPANTS

Damien Erbacher	Jamie Street
New Walton	Jamie Iker
Tony Taylor	Richard Malone
Hamish McIntyre	Steve Madden
Andrew Greste	Robert Mensah
Honi Anderson	Paul Sloman

Training Evaluation Feedback

Cotton Industry Biosecurity Training - Mascot, 27 August 2014

Participants: 3 x Growers, 4 x Consultants & 1 Cotton Australia Regional Manager & 1 Cotton Australia Director

Presenters: PHA, NSW DPI, CRDC, CA & 4 x Dept. Agriculture

PRIOR TO TRAINING - What is the one thing you really want to get out of attending this training?

- *Become aware of the process and risks of biosecurity*
- *Cotton biosecurity risks and diagnostics*
- *Better understanding of role of growers & consultants in biosecurity*
- *More knowledge, awareness*
- *Broader understanding of import protocols, testing/sampling and action plans for positive IDs*

Please circle the appropriate answer 1 is the lowest score and 5 is the highest score	1	2	3	4	5
How would you rate your knowledge of biosecurity?		1	4	4	
How important is biosecurity to your business?				1	8

ON COMPLETION OF TRAINING

	Agree	Undecided	Disagree	Not applicable
The workshop met my expectations	9			
The content was at the right level for me	9			
There was too much content delivered for the length of the training	2	1	6	
The balance of presentation, discussion and activities was about right	9			
I feel confident that I could apply the information presented in the course in an emergency response situation	6	3		
I would recommend this training to others	9			
I would participate in other training delivered through PHA	9			

Please circle the appropriate answer 1 is the lowest score and 5 is the highest score	1	2	3	4	5
How would you rate your knowledge of biosecurity?			3	6	
How important is biosecurity to your business?				1	8

What will you do differently as a result of participation in this training?

- *Think about new finds in field in a more Biosecurity manner.*
- *Vigilant about Biosecurity threats in the Cotton Industry.*
- *Be more aware & look for problems in field; extend information to growers.*
- *Dial 1800 084 881 if you see something that I think is highly suspect.*
- *Knowing this number and remembering this number will help no end.*
- *Better Farm Hygiene. I got good awareness from the training day.*
- *Act vigilantly around uncertainty of a new pest or disease in the area.*
- *React in a prompt manner contacting appropriate authorities & government bodies.*
- *More observant.*

Do you have any suggestions for improving this program or any other comments?

- *Would have been good to do the whole 2 day course*
- *Course time should be increased (Full Day Course)*
- *Two day training with greater representation from various industry players e.g. CSD & CSIRO> Biosecurity practices in cotton breeding.*
- *Appoint a Specific Biosecurity Officer for the Cotton Industry.*
- *More training days/workshops for growers and consultants*
- *A little more onsite visits/tours*
- *No suggestions at this stage. The Course was excellent in highlighting that if a suspected pest or disease was found that individual growers were not liable unless deemed deliberately negligent.*

10 September, 2014

Mr Greg Fraser
CEO
Plant Health Australia Ltd.
Level 1, 1 Phipps Close,
Deakin ACT 2600

Re: Cotton industry biosecurity awareness training

Dear Greg,

Cotton Australia has recently completed three years facilitation of cotton industry biosecurity training. The annual awareness training activities totalled 30 participants including; cotton growers, consulting agronomists, CottonInfo Regional Development Officers, Cotton Australia Regional Managers, Cotton Australia Directors and CRDC and Cotton Australia Program Managers.

There were a total of 22 presenters in 3 training activities over three years. Presenters were from eight key stakeholder organisations in biosecurity; Australian Department of Agriculture, Plant Health Australia, NSW DPI, QLD DAFF, CRDC, CSIRO, Cotton Australia and a Grains Biosecurity Officer.

The in-kind participation of a range of stakeholder personnel in presentation of information and provision of meeting and inspection facilities by the Australian Department of Agriculture (Roseberry) and Cotton Australia was a significant contribution to the project.

Cotton Australia would like to acknowledge the contribution of Plant Health Australia through Stephen Dibley, Program Manager (Training and Biosecurity Preparedness) who was a key presenter that all of our training activities over the last three years. Stephen's involvement in our industry training is greatly appreciated.

Participant evaluation and feedback has consistently shown that our training has;

- met participant expectations,
- set the content at the right level,
- achieved a balance of presentation, discussion and activities,
- provided clarity through a range of stakeholder presenters (PHA, DA, States, CRDC & CA) and
- increased awareness of industry and governments' roles in an emergency response situation.

Participants have also consistently indicated at the end of the training activities that they would participate in more advanced training delivered through PHA and that more awareness training is provided to cotton industry participants, particularly growers and consulting agronomists.

Cotton Australia will endeavour to collaborate with Plant Health Australia and the Cotton Research and Development Corporation to provide biosecurity awareness training in the future.

Yours sincerely,

Lyndon Mulligan
Chairman

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10 September, 2014

Greg Williamson
First Assistant Secretary Service Delivery
Australian Department of Agriculture
GPO Box 858
Canberra ACT 2601

Re: Cotton industry biosecurity awareness training

Dear Greg,

Cotton Australia has recently completed three years facilitation of cotton industry biosecurity training. The annual awareness training activities totalled 30 participants including; cotton growers, consulting agronomists, CottonInfo Regional Development Officers, Cotton Australia Regional Managers, Cotton Australia Directors and CRDC and Cotton Australia Program Managers.

There were a total of 22 presenters in 3 training activities over three years. Presenters were from eight key stakeholder organisations in biosecurity; Australian Department of Agriculture, Plant Health Australia, NSW DPI, QLD DAFF, CRDC, CSIRO, Cotton Australia and a Grains Biosecurity Officer.

The in-kind participation of a range of stakeholder personnel in presentation of information and provision of meeting and inspection facilities by the Australian Department of Agriculture (Roseberry, NSW) and Cotton Australia was a significant contribution to the project.

Cotton Australia would like to acknowledge the contribution of Australian Department of Agriculture through Dr David Nehl, Director Operational Science Support, Central East Region who was a key presenter that all of our training activities over the last three years. David also involved a number of colleagues in our industry training to discuss plant exports, plant and machinery imports and Australian Government biosecurity arrangements and this is greatly appreciated.

Participant evaluation and feedback has consistently shown that our training has;

- met participant expectations,
- set the content at the right level,
- achieved a balance of presentation, discussion and activities,
- provided clarity through a range of stakeholder presenters (DA, PHA, States, CRDC & CA) and
- increased awareness of industry and governments' roles in an emergency response situation.

Participants have also consistently indicated at the end of the training activities that they would participate in more advanced training delivered through PHA and including the Department of Agriculture and State agencies, and that more awareness training be provided to cotton industry participants, particularly growers and consulting agronomists.

Cotton Australia will endeavour to collaborate with Plant Health Australia, the Cotton Research and Development Corporation and the Department to provide biosecurity training in the future.

Yours sincerely,

Lyndon Mulligan
Chairman

cc Rick Hawe, Manager Regional Service Delivery South-East Region, Gertraud Norton, Director of Operational Science Support and Louise van Meurs, First Assistant Secretary Plant Biosecurity.