

PHA BIOSECURITY UPDATE

Rod Turner PHA

Improving national biosecurity outcomes through partnerships



PHA and the biosecurity partnership

- Not for profit, **public company**, formed in 2000
- PHA is the national coordinator of the **government-industry partnership** for plant biosecurity in Australia
- Custodians of the **Emergency Plant Pest Response Deed**
- Work with members to improve plant biosecurity outcomes
- **Member-based** company



PHA members

Government



Industry

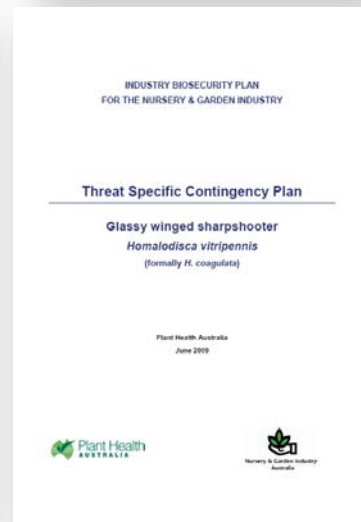
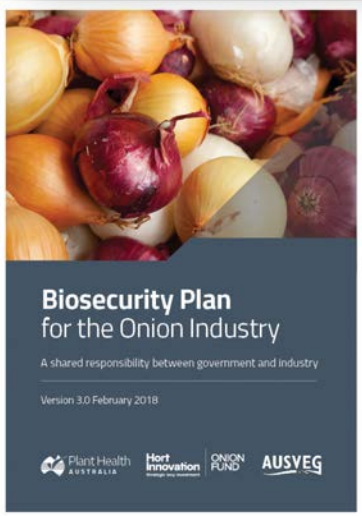


Associate



August 2019

PHA's program of work



What is biosecurity?

Biosecurity is **protection** of farms, industries and the natural environment that could be harmed by the entry and establishment **of exotic pests**



Aspects that contribute to good biosecurity are:

Preventing entry of exotic pests & diseases

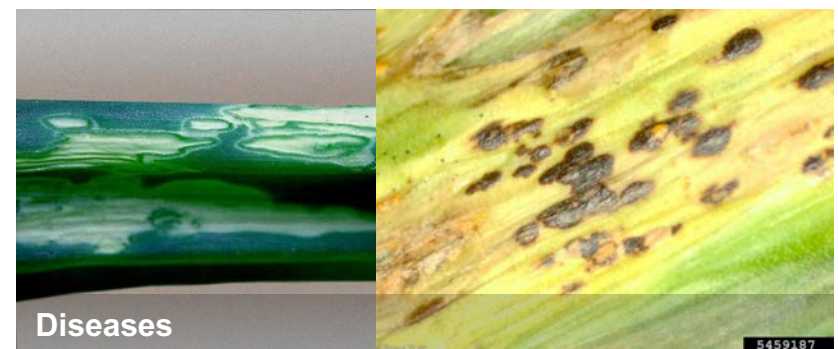
Early detection of exotic pests & diseases

Preventing establishment of exotic pests & diseases

Preventing spread of pests into new areas & diseases

Why is biosecurity important?

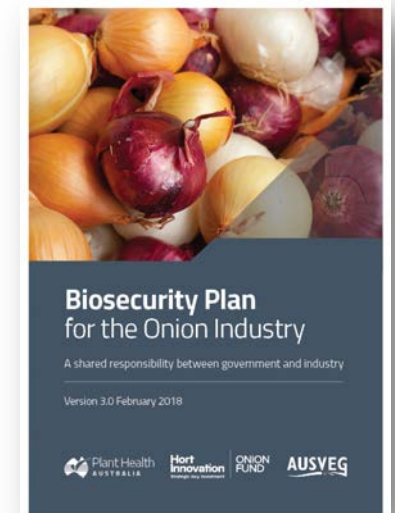
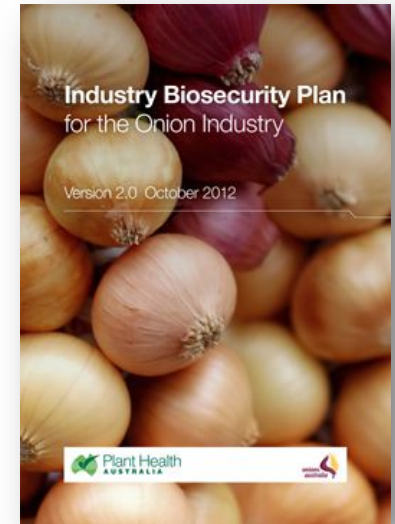
- Reduces the **impact** of exotic pest threats
- Provides **real trade benefits - Market access** (WTO/SPS framework)
- Reduces potential **pest management costs**
- Competitive and sustainable production
- Protecting livelihoods and lifestyles
- Constant and increased threat of pest incursions



Biosecurity Planning

High level document providing a **framework** for biosecurity activities in the industry.

- Biosecurity planning is an obligation under the EPPRD
- Biosecurity Plans have been a mechanism to demonstrate commitment to biosecurity planning
- Reviewed every 4-5 years
- Endorsed by peak industry body
- Endorsed by state, territory and commonwealth governments



Biosecurity plans- a new model

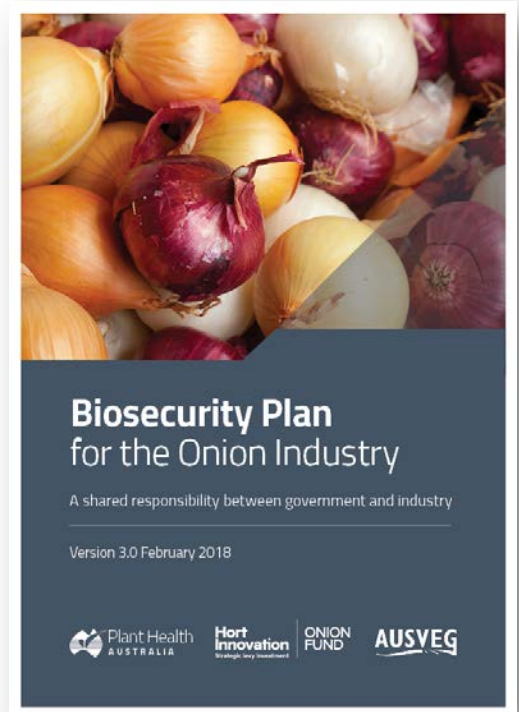
- To better reflect partnerships, the way we develop biosecurity plans has changed
- Biosecurity Plans (BPs) for each industry
 - Increased emphasis on identifying specific biosecurity actions through Biosecurity Implementation Tables
 - Increased emphasis on delivery and on-going monitoring through the Biosecurity Reference Panel



What is a Biosecurity Plan & what does it involve?

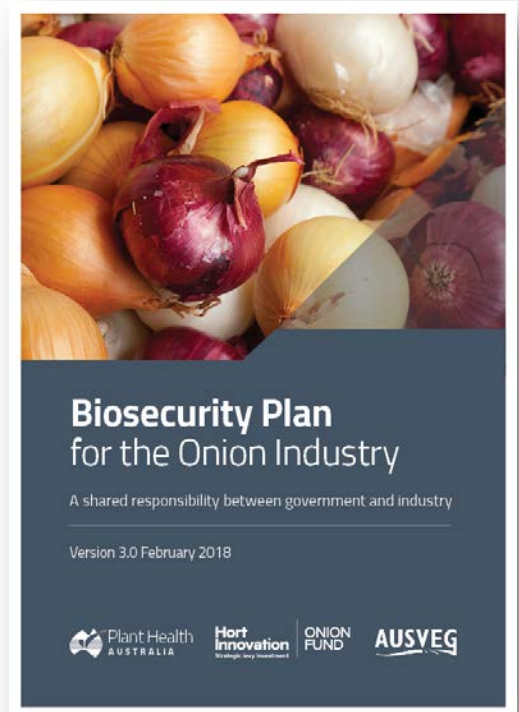
Developing a biosecurity plan involves:

- Prioritising exotic pests & diseases to form High Priority Pest (HPP) list
- Gap analysis of HPPs
- Forming a biosecurity implementation table
- Identifying established pests, disease & weed list
- Industry & government endorsement



Onion Biosecurity Plan

- The Onion Biosecurity Plan has been reviewed
- 11 High Priority Exotic Pests and Diseases identified
- Implementation actions identified and endorsed by industry and government
- Next steps
 - Biosecurity Reference Panels annually until 2021



High Priority Pest List

Common name	Scientific name	Affected plant part
FLIES AND LEAFMINERS (Diptera)		
Onion fly	<i>Delia antiqua</i>	Bulb, foliage, roots, seedlings
Bean fly	<i>Delia florilega</i>	Bulbs, seedlings
Vegetable leafminer	<i>Liriomyza sativae</i>	Leaves
THRIPS (Thysanoptera)		
Onion thrips	<i>Thrips tabaci</i> (exotic strains/biotypes)	Foliage, bulbs, flowers
BACTERIA		
Xanthomonas leaf blight	<i>Xanthomonas axonopodis</i> pv. <i>allii</i>	Foliage
FUNGI		
Leaf rot and neck rot of onion	<i>Botrytis squamosa</i>	Foliage
Leaf blotch	<i>Cladosporium allii</i>	Foliage
Rust of garlic and chives	<i>Puccinia allii</i> ("Koike's race")	Foliage
Rust of chives	<i>Puccinia mixta</i>	Foliage
Rust of leek	<i>Puccinia porri</i>	Foliage
Onion smut	<i>Urocystis cepulae</i>	Whole plant

Xanthomonas leaf blight

- *Xanthomonas axonopodis* pv. *allii*
- Found in South Africa, North and South America and Japan
- Infects Alliums including onion & garlic
- Causes lesions on leaves & scapes
- Yield losses of 10 to 50% have been reported overseas



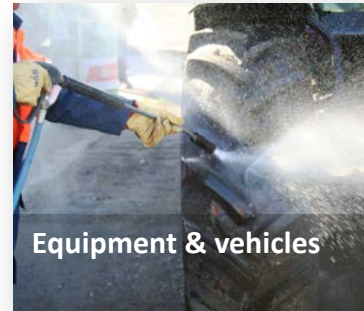
IF YOU SEE ANYTHING UNUSUAL,
CALL THE EXOTIC PLANT PEST HOTLINE

1800 084 881



What can you do for your farm?

- Planning
- Farm biosecurity videos
- Go to farmbiosecurity.com.au
- Focus on the 6 biosecurity essentials
 - Farm inputs
 - Farm outputs
 - Ferals and weeds
 - People, vehicles and equipment
 - Production practices
 - Train, plan and record
- Report anything unusual
- planthealthaustralia.com.au/bolt/

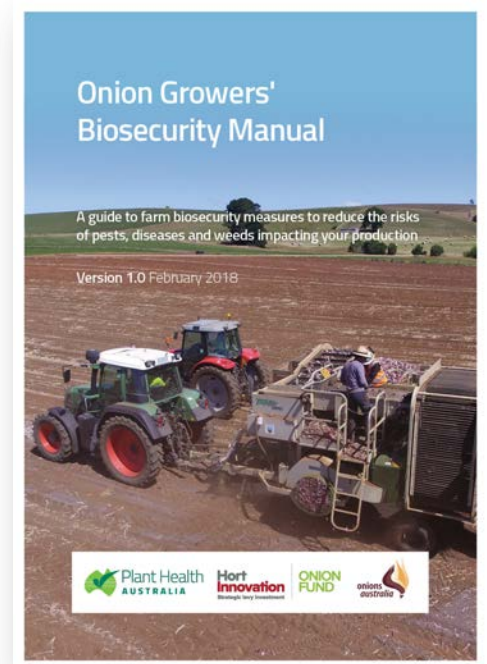


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What is the Onion Growers' Biosecurity Manual?

- A document for growers
- Contains:
 - suggestions on things you can implement on farm to decrease the risk of introducing or spreading a new pest
 - a checklist which you might use to look at areas where you are vulnerable
 - images and descriptions of pests which are not in Australia or not in your region
 - mostly recommendations, not obligations, which need to be considered in the context of production decisions



What's in the manual?

Three sections

- General information about biosecurity practice on onion farms
- Grower checklist



People,
vehicles and
equipment



Farm inputs



Production
practices



Farm
outputs



Feral animals
and weeds



Train, plan and
record

- Pest information