



Biosecurity New Zealand

Ministry for Primary Industries
Manatū Ahu Matua

Collated Presentations from MPI/FOA Joint Forum

4 June 2020





JOINT BIOSECURITY FORUM

DATE:	4 June 2020									
VENUE:	Zoom, Meeting ID: 502 658 344, Password: 009540 https://zoom.us/j/502658344?pwd=Ym9Lb3NCT0xHbGk1cWdROW1VNUxEdz09									
TIME:	2:00pm – 4:30pm.									
Sneaker sessi	ons are scheduled 10-15min plus time for initial questi	ions								
TIME:	AGENDA ITEM:	SPEAKERS:								
INTRODUCTION	:									
2:00pm	Welcome by Chair Session overview	Angela Brownie Acting Director Readiness & Response Services								
PRE-BORDER/BO	ORDER:									
2:05pm	2. Timber Import Health Standard Review	Gillian Stone Plant Product Imports								
2:25pm	3. Update on Methyl Bromide	Ken Glassey Treatments & Inanimate Pathways								
		Emmanuel Yamoah Plant Exports								
2:45pm	4. Pathway Research and Emerging Risks	Michael Ormsby Science and Risk Assessment								
POST-BORDER:										
3:05pm	5. Update from Incursion Investigation on E- commerce	Laura Goudie Biosecurity Surveillance & Incursion Investigation (Plant Health)								





3:25pm	6. Readiness Group update	Angela Brownie Acting Director Readiness & Response Services
3:45pm	7. Response Group update	John Brightwell & Priscila Freitas Biosecurity Response
WRAP-UP:		
4:05pm	8. Additional time for questions <i>To be submitted through the chat function.</i>	All
4:25pm	9. Meeting close by Chair	Angela Brownie Acting Director Readiness & Response Services

CLOSE OF MEETING SCHEDULED FOR 4:30PM

How to join a Zoom meeting from your web browser

Please see the below link for instructions on how to join the meeting from your web browser (for those who do not have the Zoom application installed on their device). You do not need to have a Zoom account to join.

https://support.zoom.us/hc/en-us/articles/201362593-Launching-Zoom-from-a-web-browser

Joint Biosecurity Forum

The MPI/FOA joint biosecurity forum is an interactive session that aims to promote discussion and debate on issues across the biosecurity system. It is an opportunity for both organisations to share what they been working on in the past 12 months, and to plan future collaborations.

Ministry for Primary Industries Manatū Ahu Matua



Joint Biosecurity Forum

4th June 2020, Rotorua



Gillian Stone, Adviser Plants and Pathways

Forest Products Review

MPI is reviewing the biosecurity requirements for seven forest product import health standards.

Combine seven standards into one standard.

Review why treatment requirements are limited to only certain products.



Seven into One

- Bamboo, cane, rattan and willow from all countries
- Bark from all countries
- Poles, piles, rounds and sleepers from all countries
- Sawdust, shavings, wood chips and wool from all countries
- Sawn wood from all countries
- Wooden panels from all countries
- Woodware from all countries

Shared Requirements

Requirement	Bamboo	Bark	Poles	Sawdust	Sawn Wood	Wooden Panels	Wood ware
Freedom from live pests	✓	✓	✓	✓	√	√	✓
Packed / shipped to prevent contamination	✓	✓	✓	✓	✓	✓	✓
Treatment pre- export or on arrival	✓	✓	✓	√	√	√	✓
Verification of treatment options undertaken	✓	✓	✓	✓	✓	✓	✓
Treatment certificate OR	✓	✓	√	✓	√	✓	√
Phytosanitary certificate with treatment details	✓	✓	✓	✓	✓	✓	✓
Filleted	✓		√			√	√

Shared Treatments

Requirement	Bamboo	Bark	Poles	Sawdust	Sawn Wood	Wooden Panels	Wood ware
Fumigation	✓	✓	✓	✓	✓	✓	✓
Heat	✓	✓	✓	✓	✓	✓	✓
Vacuum fumigation						✓	✓
Chemical preservation	✓		✓	✓	✓	✓	

- Vacuum fumigation treatment is limited to wooden panels and woodware
- Chemical preservation treatment is offered to all products but not bark or woodware

Questions?

Gillian.stone@mpi.govt.nz



Biosecurity New Zealand

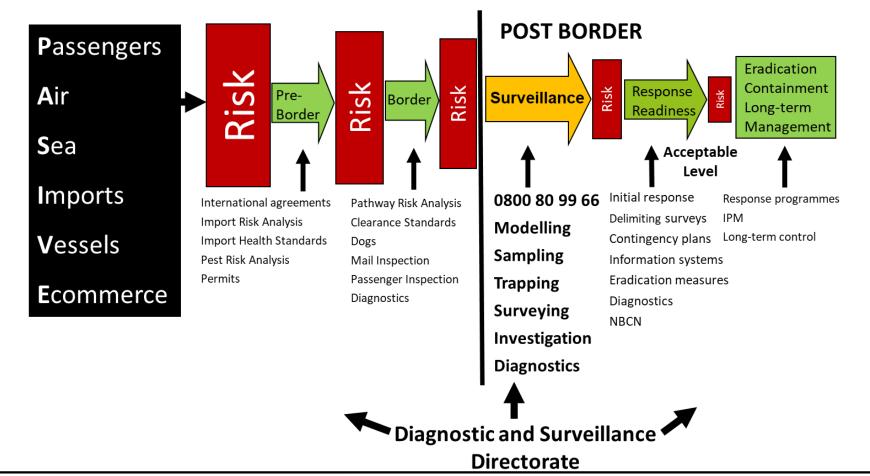
Tiakitanga Pūtaiao Aotearoa

Incursion Investigation update on E-commerce

Laura Goudie - Plant Health Incursion Investigator

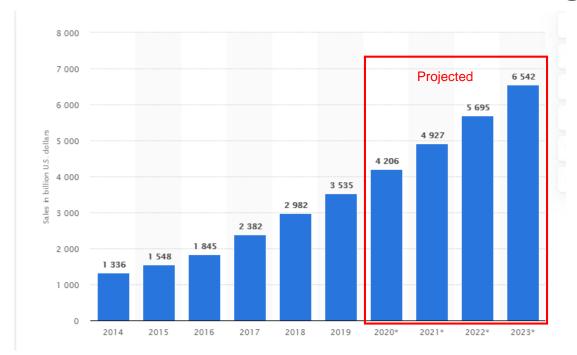








E-commerce on the rise: the global picture



Source: Clement, J. 2019. Retail e-commerce sales worldwide from 2014 to 2023



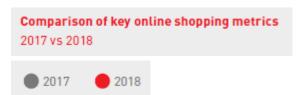
E-commerce on the rise: 2018 - the NZ picture

- 1.8 million kiwis shopped online
- 8.9% of retail spend
- Growth in online spend 16% > offline spend only 2%
- Growth largely driven by increased shopping frequency and basket size



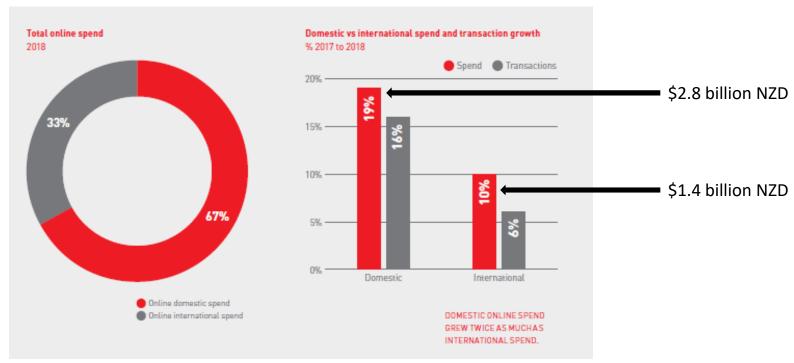
E-commerce on the rise: the NZ picture





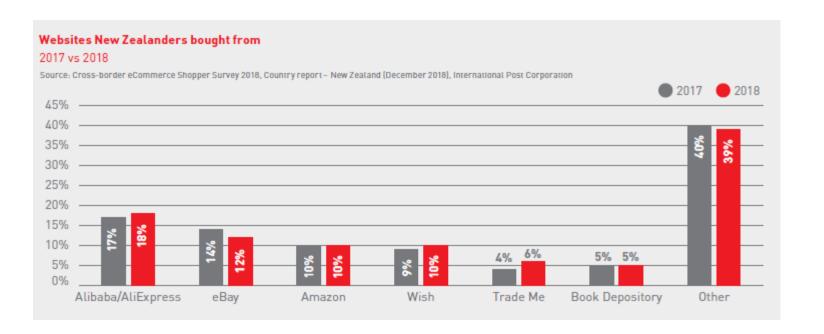


E-commerce on the rise: the NZ picture





E-commerce on the rise: the NZ picture





E-commerce on the rise: marketplaces

- 7% growth in domestic and international basket size
- Global marketplace revenues are expected to double by 2022











E-commerce on the rise: a pathway risk





Disregard for MPI's Import Health Standards

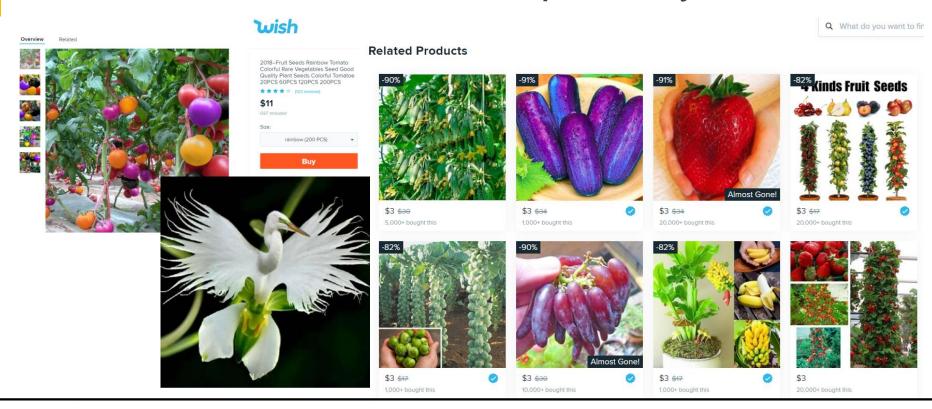




Hitchhiker pests

Misdeclared risk goods

E-commerce on the rise: a pathway risk





Illegal moss balls brought into NZ by artist 'have potential to ruin' lakes and rivers - judge

Miranda said she bought the moss balls through the Chinese online retail site AliExpress and sold them on Trade Me and through stalls at the Sumner Summer Market and Riccarton Market.

Miranda said she had studied horticulture at university and had been in New Zealand nine years where she worked as a botanic artist.

"I didn't know they were prohibited. Because other things I bought [online from overseas] came through, I didn't really think about it," she said in her recorded DVD interview, which was played in court.

She said she did not make any checks on whether the moss balls were legal to bring in.

19:59, Mar 26 2018







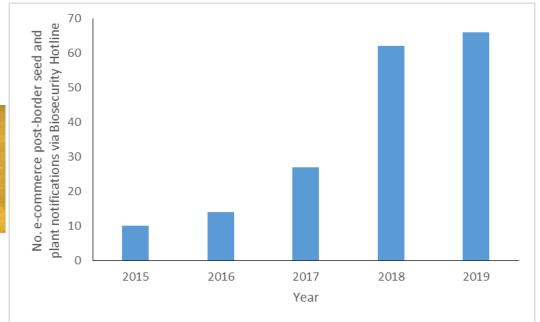






E-commerce on the rise: a pathway risk







Source: Data extracted from MPI's Surveillance Information Management System

E-commerce on the rise: a pathway risk

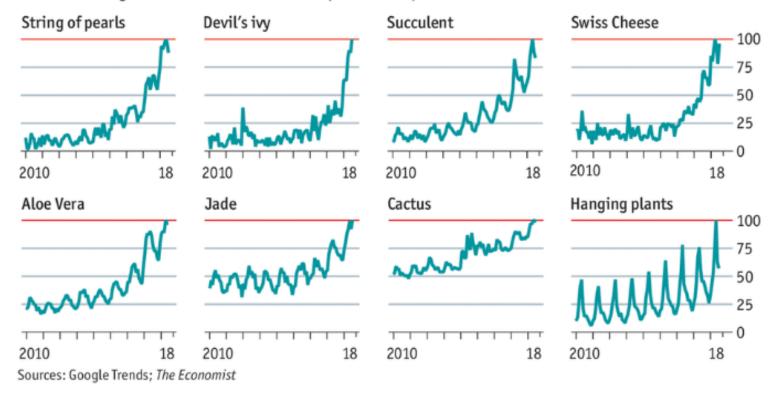
Vast majority of nursery stock intercepted at International Mail Centre is non-compliant, seized and destroyed

Qmail Nursery Stock lines 01/7/19 -03/08/19								
Week		2	3	4	5	6	7	
Budwood/cuttings (stems only)		2		1	1			4
Dormant bulbs/corms/tubers/rhizomes		1		1	1	1		5
Other nursery stock		1	1		3			6
Plants (including rooted cuttings in leaf)		8	4	3	7	3	2	33
Grand Total		12	5	5	12	4	2	48



Growing interest

Worldwide Google searches for selected house plants, 100=peak





stuff ≡

This is an example of the popularity of houseplants in New Zealand!







As her collection has grown, she's increasingly looking for rarer and more unusual treasures.

ALDEN WILLIAMS/STUFF

November mainly sources plants online from Trade Me and Facebook's Marketplace, or from another member in any one of the myriad social media plant groups to which she belongs. She's part of a few Christchurch groups, as well as nationwide ones, and also in specialist hoya, cacti and carnivorous plants online societies.





ESPINOFF

HOME

MONEY .

NEW ZEAL AND

WORLD

POLITICS

SPORT

ENTERTAINMENT

TRAVEL

Interest in monstera plants reaches new heights online

why we go crazy for indoor plants

Priscilla Dickinson

grows it nice.

Following the sale of this one-meter-tall variegated monstera for \$4930 in January, searches for monstera have surged Photo credit: TradeMe

"The prices these kinds of listings will go for is crazy, it's like the Auckland housing market!" says Goh, who experiences the demand first-hand when he sells spare cuttings online via his Mr Homebody account on Instagram. "At the moment I think New Zealanders are so crazy about it and they're willing to pay quite a lot of money, especially for rare varieties."

Monstera madness and fiddle-leaf frenzy:

"At the moment, plants are playing a huge part in interior design. People want them pre-grown [which is why] plant prices keep going up. But it doesn't happen straight away, and not everyone

> Blue strawberries seeds auction pulled by Trade Me, leaving grower forlorn



E-commerce on the rise: what is being done?

- Plant Health Team investigate seed and plant imports to determine biosecurity issue
- Deliberate and serious breaches referred for prosecution consideration
- TradeMe contacted to remove and trace illegal listings
- Ongoing work with Alibaba/AliExpress
- MPI Import Health Standards reviewed
- International collaboration with NZ representation QUADS ecommerce group, IPPC e-commerce network

E-commerce on the rise: what is being done?

- General Surveillance Engagement Project underway to improve public awareness of biosecurity regulations
- Other communications:
 - -contact with <u>www.flowerseeds.co.nz</u>
 - -magazine article in development for raising awareness





To report a suspected exotic pest or disease call

0800 80 99 66

Ministry for Primary Industries Manatū Ahu Matua



Biosecurity New Zealand

Tiakitanga Pūtaiao Aotearoa

Methyl bromide situation update

Emmanuel Yamoah Ken Glassey

Ministry for Primary Industries Manatū Ahu Matua



NZ methyl bromide use

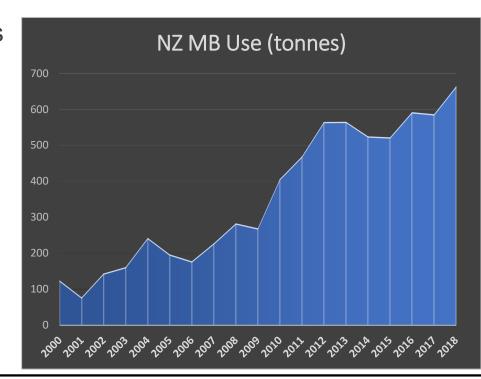
Increase in New Zealand's MB use is due to increased log exports.

Fumigation of forest products for export accounts for 94% of MB use.

Fumigation of other export goods & imported goods to manage biosecurity risks account for 6%.

NZ is the worlds 6th biggest user

Source: UNEP Ozone Secretariat 2018 data.





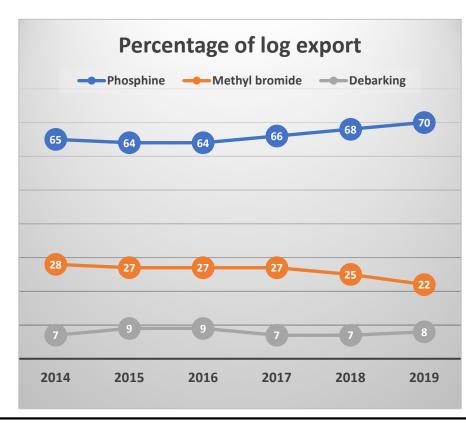
NZ Methyl bromide use

The percentage of logs fumigated with MB has decreased from 28 to 22%.

Due to increase in phosphine use.

Have fumigated some ship holds with 50% less MB using new monitoring

2018 - \$905 million of export products and \$1,650 million imports treated with MB. *Added after presenting





EPA Regulation on MB

- From 28 October 2020, all MB fumigations must use recapture technology.
- Export of logs to markets like China & India would be affected without an efficient recapture process or a substitute treatment available that is accepted by trading partners.



Work progress: EDN and reduced MB

- Research into an effective alternative, ethanedinitrile (EDN) and reduced MB rates has been completed by STIMBR.
- Results show that EDN is effective against common pests associated with NZ logs, and the current MB application rates can be reduced.
- MPI has submitted the research results to China & India for assessment & negotiation.

Work progress:

- A New Zealand delegation visited China for discussion on EDN and reduced rates of MB in Dec 2019.
- Meeting with India has been delayed by Covid-19.
- An application to register EDN for use on logs is being progressed with the EPA since 2017. Does not cover ship hold or container fumigation.
- A draft Safe Work Instrument for the use of EDN was released for public consultation early this year. Recapture is not required.



Work progress

- MPI is investigating and supporting work into alternative fumigants to control pests associated with import goods such as BMSB and to respond to biosecurity incursions.
- MPI has initiated research into verifying available MB recapture technology on various commodities (logs, timber, fresh produce, equipment, etc.), results late 2020.
- The EPA MB recapture target cannot be achieved for logs.

Reassessment of MB controls

- EPA is reassessing the controls around the use of MB, including the recapture requirement following STIMBR application.
- A hearing will begin on 27 July 2020
- Only 4 more months to the Oct 2020 deadline
- Fumigators need at least 3 months to prepare
- STIMBER has submitted an application for a waiver of the time frame for recapture by 6 months in order for a decision on the reassessment to be reached



MB availability post 2020: scenarios

EDN NOT APPROVED (either TP or EPA)

- 1. Worst case: Stop MB use; no effective recapture technology.
- 2. BAU: Continue to use MB with effective recapture technology.

EDN APPROVED (both TP & EPA)

- 3. Replace MB fumigation of undercover logs with EDN; no effective MB recapture technology for many other uses.
- 4. Best case: Continue to use MB with effective recapture; plus EDN on logs.



Scenario 1: No MB, No EDN

- Our ability to manage pests detected at the border in imported goods and to respond to biosecurity incursions could be significantly affected.
- Log trade to China & India and horticultural exports, will be significantly affected. MPI has estimated the value of this trade (fumigated with MB) at NZ\$905 million, \$1,650 million imports* treated with MB in 2018. *Added after presenting

Scenario 2: MB only

 MB use continues with added costs of recapture with current equipment with revised EPA requirements.

Scenario 3: EDN only

- Our ability to treat imports, some exports and to respond to biosecurity incursions could be significantly affected.
- Log trade to China continues, except for containerised cargo.
- Log trade to India continues, except for containerised & ship hold cargo.



Scenario 4: MB & EDN

- Our ability to treat imports, exports and to respond to biosecurity incursions continues with some added costs.
- Log trade to China and India continues
- NZ use of MB is reduced significantly.



Biosecurity New Zealand

Tiakitanga Pūtaiao Aotearoa

Forestry Industry Update

Science and Risk Assessment Update on Emerging Risks, Research, and Risk Assessment Work Program

Dr Mike Ormsby

Ministry for Primary Industries Manatū Ahu Matua

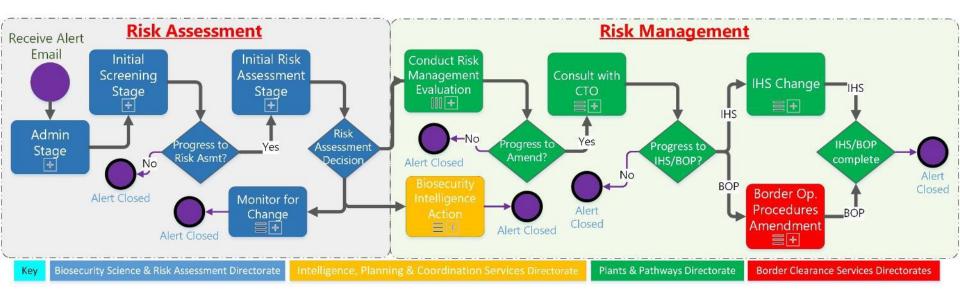


Biosecurity Emerging Risks System Overview

MPI's Biosecurity Emerging Risks System (ERS) is designed to proactively identify potential and emerging biosecurity risks to New Zealand, and to track their assessment and management through MPI's biosecurity system. The ERS focusses on plant and animal hazards and other invasive species in the terrestrial and aquatic environments. The current priorities of the ERS are newly described species of pest or pathogen, newly reported host or commodity associations and significant changes in the distribution of species of potential biosecurity concern to New Zealand. Alerts are progressed into the ERS for assessment if they contain new information about such biosecurity risks. Outcomes of these assessments include sharing information for increased vigilance, changes to import health standards or border operational procedures.



Biosecurity Emerging Risks System Overview





Biosecurity Emerging Risks System Overview

Since the inception of the ERS on 31st August 2012, the system has received a total of:

16,565 alerts, or which;

2,083 required risk assessing (~13%) and;

212 did or will result in changes to import health standards (~1.3%).



Emerging Risks 2018-20: Pathogens on *Pinus* spp.

Phacidium lacerum - newly reported fungal pathogen in USA

Lecanosticta acicola (brown needle spot) – Review for pathway risk

Dothistroma pini (Dothistroma needle blight) - First report in Germany, Georgia and the Ukraine.





Emerging Risks 2018-20: Arthropods on *Pinus* spp.

Dendroctonus valens (red turpentine beetle) - added to EPPO alert list

Toumeyella parvicornis (pine tortoise scale) -Newly invasive in Europe (Southern Italy)

Cyrtogenius luteus - First report of the bark beetle in Brazil







Emerging Risks 2018-20: Pathogens on Eucalyptus

Celoporthe cerciana - newly reported fungal pathogen in China

Apoharknessia eucalyptorum - First report of fungal pathogen in Brazil

Lasiodiplodia brasiliensis - First report of fungal pathogen in China and Malaysia

Teratosphaeria gauchensis & *T. zuluensis* – Pathogen profile on Eucalyptus





Emerging Risks 2018-20: Pathogens on Eucalyptus cont.

Neopestalotiopsis protearum - First report of fungal pathogen causing dieback, leaf and stem lesions on *Eucalyptus* sp. seedlings from Brazil

Calonectria metrosideri - First report of fungal pathogen causing leaf blight and crown defoliation on Eucalyptus sp. in Brazil

Myrtoporthe bodenii - New fungus species described from Malaysia

Xanthomonas perforans - First report of bacteria causing leaf blight on Eucalyptus in Indonesia





Emerging Risks 2018-20: Arthropods on Cypress or Douglas fir

Cyphostethus tristriatus (juniper shield bug) - First report in Canada (on many species).



Biosecurity Emerging Risks

EmergingRisks@mpi.govt.nz



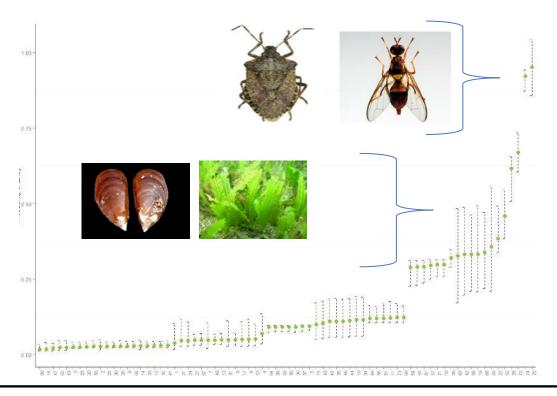




Biosecurity New Zealand's:

- Lists of priority exotic pests and diseases of highest biosecurity threat in New Zealand to:
 - plant health;
 - aquatic health
- An initial set of risk management actions for Biosecurity New Zealand

Using a systematic, evidence based approach to comparing the **relative likelihood** of pests and diseases **to enter and cause significant impact** to New Zealand.



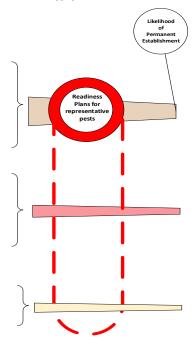
Risk Return **Analysis Approach**:

Maximising risk reduction across pathways, pests, sectors

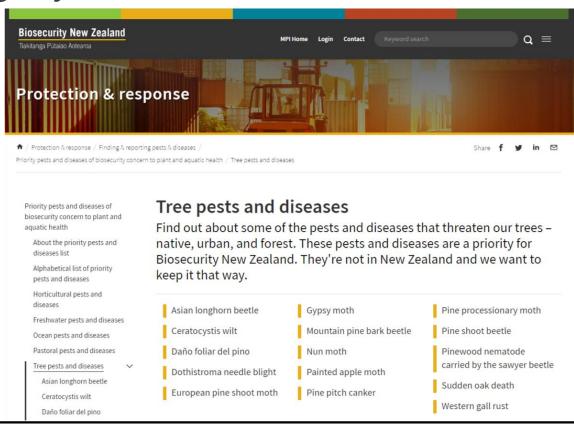
Developing generic capability

Also enhance the management of other pests eg Spotted lanternfly and Asian Gypsy Moth, AGM Significant Likelihood Likelihood of Entry Establishment Significant Entry Pathways Sea Containers Plans for **BMSB** Heat & Vehicle & Fumigation Machinery for Cargo from Sea Containers Spotted CARGO Lantern Vehicle & Machinery Goods Gypsy Moth Sea Containers (AGM) Vehicle &

Risk Management Interventions - Example Brown Mamorated Stink Bug (BMSB)



https://www.biosecurity.govt. nz/protection-andresponse/finding-andreporting-pests-anddiseases/priority-pests-plantaquatic/tree-forestry-pests/





Research Projects: Pest risk model - AGM

IBRAM: A quantitative risk assessment and risk mapping system to identify risk pathways, periods and areas for pests of concern to New Zealand.









Biosecurity New Zealand

Tiakitanga Pūtaiao Aotearoa

The Biosecurity Response System

Priscila Freitas & John Brightwell

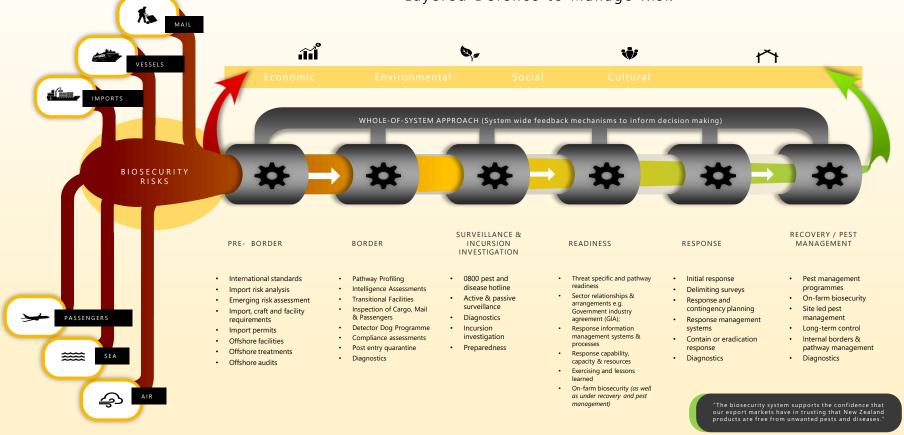
Team Response Manager

Ministry for Primary Industries Manatū Ahu Matua

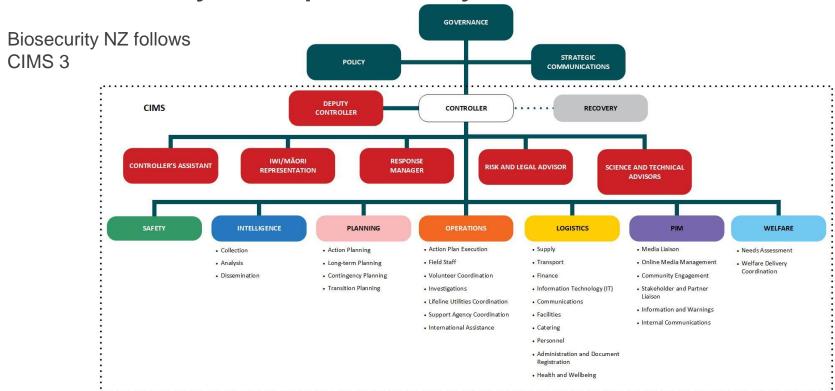


The Biosecurity System

Layered Defence to Manage Risk

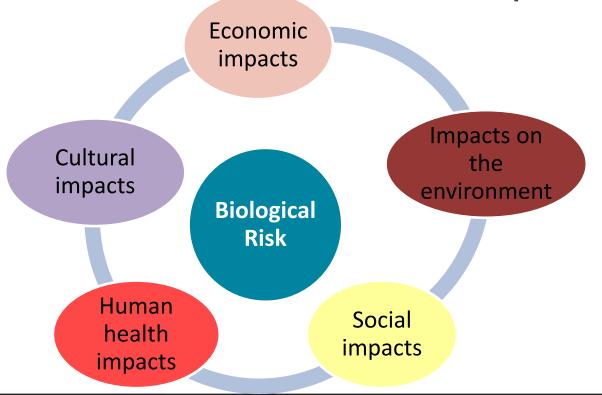


Biosecurity Response System



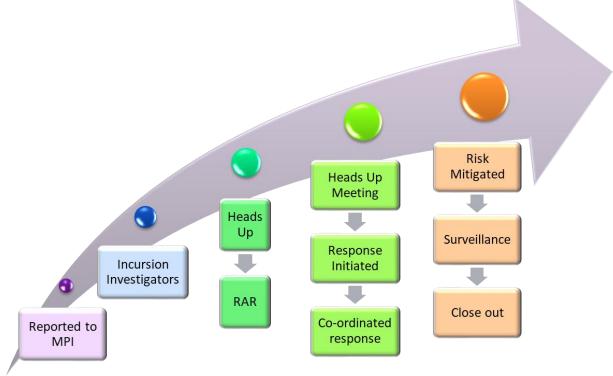


What factors do we consider in a response





Basic process of a response





Role of Response Governance

- maintain a strategic overview of the response
- ensure risks are identified and mitigated through operational planning
- delegate authority and operational control to the Controller and give the Controller ongoing high level support, advice and direction
- Sets response objectives and is ultimately responsible for the outcome of the response
- ensure response has access to resources needed

Responses of note 2019/20 and achievements

Nothing has significantly touched the Forestry Industry



Poplar sawfly 2019



Granulated Ambrosia Beetle 2019

Photo credits: MPI PHL



Response achievements



Queensland Fruit Fly 2019



Pea Weevil Wairarapa

- Nelson Fires
- COVID-19 and Drought transitioning to BAU



Photo credits: MPI PHL

