



PLANT PASS DOC #04

# Plant Pass Hazard Management Checklists

V1.4 – 7 October 2022

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BIOSECURITY 2025

# Plant Pass Hazard Management Checklists

7 October 2022

### Plant Pass Scheme

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## Updates

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The Plant Pass Scheme is a science-based framework to help producers identify, control, manage and avoid biosecurity risk. The Scheme and standards are based on work undertaken early in 2018 following experience early in the myrtle rust response that underscored the crucial role that plant producers play in early detection of pests, their containment and slowing their spread following a pest incursion. Subsequent discussions identified the opportunity to develop a systematic approach to plant production industry biosecurity risk management.

Revisions will be ongoing as the Scheme's experience and/or new science inform the need for change. Revisions published on the Scheme's website [[plantpass.org.nz](http://plantpass.org.nz)] and participants advised of the changes and new documents, so they can ensure that they are referring to the most recent documents.

Those wishing to provide recommendations for change should send these in writing to The Scheme Manager or by email to [office@plantpass.org.nz](mailto:office@plantpass.org.nz).

## Acknowledgements

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Plant Pass acknowledges and is appreciative of the support of many industry members and stakeholders who assisted in the development of the Scheme; funding from the Ministry for Primary Industry, Department of Conservation, Auckland Council and forestry and horticultural industry bodies, the guidance of project Steering and Working Groups, feedback and advice from industry members and stakeholders, and Kiwifruit Vine Health's generously allowing the Scheme to extract from and draw heavily upon their work and the Kiwifruit Plant Certification Scheme.

## Disclaimer

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While the Scheme's objective is to allow certification of plant producers and confidence that plants they produce have been grown under conditions of high biosecurity risk and hazard management, there remains the possibility a proportion of plants may contain biosecurity pests. Plant Pass and its partners accept no liability for claims regarding the presence of pests in any plants produced by registered and/or certified producers. While the objective of the Scheme's standards and guidance is to minimise the potential risk pest, no party can guarantee that adherence to these standards and guidance will reduce such risk to zero.

## Revisions

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V1.0 – February 2020

V1.1 – 10 September 2020

- Add 2 new checklist items to address weed management (8.35, 8.36), incrementing following item numbers.
- Amend checklist items 7.26, 20.6 and 20.10.

V1.2 – 10 June 2021

- Rebranding as Plant Pass.
- Minor typos corrected.

V1.3 – 1 August 2022

- Updated Myrtle Rust references to reflect latest NZPPI Myrtle Rust Management Protocols – section 20
- Amend Myrtle Rust crop monitoring and protection to reflect a risk-based approach with new checklist item 20.16 incrementing following checklist list item numbers.
- Removed prescriptive 14-day interval from monitoring checklist item 20.17.
- Removed requirement for Myrtle Rust Plant Dispatch Declaration – checklist item 20.14 and former 20.19 and 20.20.

V1.4 – 7 October 2022

- **Updates to Section 22** – renamed the **Kauri Schedule**, formerly the *Phytophthora agathidicida* Schedule, to align with the National *Phytophthora agathidicida* Pest Management Plan 2022 (PaNPMP).
  - References updated linking to both the Plant Pass Kauri Schedule and the PaNPMP.
  - Some criteria renumbered/reordered.
  - Criteria 22.5 updated to reflect requirement for weekly monitoring rather than monthly.
  - New Criteria 22.11 to reflect Plant Pass Kauri Schedule section 5/8 and PaNPMP Rule 3.3d
  - Deleted Criteria referring to exclusion of wild animals.

# Plant Pass Hazard Management Checklists

### Core Standard Checklist (Sections 6 – 11)

This checklist is divided into three parts:

- **Part A – Nursery Essentials – Section 6**  
This section describes the nursery and general operating practices. It is applicable to all plant producers.
- **Part B – Biosecurity Fundamentals – Section 7**  
This section identifies key components of a biosecurity risk management system. It is applicable to all plant producers.
- **Part C – Hazard Management**  
This section identifies specific hazards and measures nurseries shall implement to mitigate the risk that these hazards present.

This part is split into three sections:

- **Part C1 - All Plant Production (Section 8)** - issues that relate to all plant producers and their nursery(s)
- **Part C2 - Container Production (Section 9)** – issues that relate only where production steps include the use of containers (pots, bags, trays ...).
- **Part C3 - Bare Root and Field Production (Section 10)** – issues that relate only where production steps include growing plants in the field, that is, part of the production cycle includes plants being grown directly in soil.

These sections should be considered in association with the Plant Pass Core Standard, and for ease of reference section header numbering intentionally begins at 6 to align with the Core Standard.

### Myrtle Rust Specific Module Checklist (Section 20)

Criteria that apply only to producers who grow plants from the *Myrtaceae* family. They should be considered in association with the Plant Pass Myrtle Rust Specific Module.

### Kauri Schedule Checklist (Section 21)

Criteria that apply only to producers who grow *Agathis australis* (Kauri) and other identified alternate hosts of the pathogen *Phytophthora agathidicida* (kauri dieback)<sup>1</sup>. They should be considered in association with the Plant Pass Phytophthora Specific Module and the Kauri Schedule.

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<sup>1</sup> Alternate hosts – at date of writing (October) no alternate hosts have been identified.

6. NURSERY ESSENTIALS						
SEQ	Issue	Y	N	NA	Level	Reference <sup>2</sup> / Notes
<b>Nursery details</b>						6.1
6.1.	Are nursery details recorded to enable rapid identification?				Major	
6.2.	Does the nursery description provide an overview of the operation?				Minor	
6.3.	Are all water sources used by the nursery identified?				Major	
6.4.	Is a list of all nursery sites recorded?				Minor	
6.5.	Do nursery maps show location of key areas?				Minor	
<b>Management responsibility</b>						6.2
6.6.	Is there a designated person responsible for implementing this Scheme?				Major	
6.7.	Does this function have a role description?				Minor	
6.8.	Can this person demonstrate an understanding of biosecurity risk management practice?				Major	
6.9.	Is a register of authorised persons maintained?				Minor	
<b>Worker Training</b>						6.3
6.10.	Are procedures in place to ensure appropriate training in biosecurity risk management?				Major	
6.11.	Are records of worker training and competency maintained and up to date?				Minor	
<b>Signage</b>						6.4
6.12.	Are appropriate signs posted at nursery entrances?				Major	
<b>Visitors</b>						6.5
6.13.	Are visitors made aware of biosecurity requirements?				Major	
6.14.	Does the nursery have procedures to manage risks posed by visitors?				Major	
6.15.	Is a visitor register maintained?				Minor	

<sup>2</sup> References in section 6-11 refer to sections in the Plant Pass Core Standard and Plant Pass Guidance documents.

7. BIOSECURITY MANAGEMENT FUNDAMENTALS						
SEQ	Issue	Y	N	NA	Level	Reference / Notes
	<b>Systems Approach</b>					7.1
7.1.	Has the nursery implemented a systematic approach biosecurity risk management?				Major	
7.2.	Does the nursery have an up-to-date and active Nursery Manual and/or body of evidence to support biosecurity risk management?				Major	
7.3.	Has the nursery completed at least one internal Scheme self-assessment in the past 12 months and documented any non-conformances and actions for improvement?				Major	
7.4.	Is an internal biosecurity risk assessment undertaken annually?				Minor	
7.5.	Are biosecurity risk management records maintained as required by the Standard? (That is, traceability records for 7 years, other records for 3 years)				Major	See also Appendix 1
	<b>Hygiene</b>					7.2
7.6.	Does the nursery have documented hygiene procedures and evidence to show they are used?				Critical	
	<b>Nursery site</b>					
7.7.	Are growing areas adequately managed to mitigate the risk of weeds and weed seeds being transferred through the nursery and with dispatched plants?				Critical	
	<b>Access</b>					
7.8.	Is access to work and growing areas appropriately managed?				Major	
7.9.	Are vehicles that enter work and growing areas monitored for pests, soil or plant debris?				Major	
	<b>Personnel</b>					
7.10.	Is there adequate supervision of nursery hygiene practices?				Major	
7.11.	Are instructions provided for hygiene requirements - written notices, signs and/or pictures that are displayed in the appropriate areas?				Minor	

SEQ	Issue	Y	N	NA	Level	Reference / Notes
7.12.	Do workers undertake appropriate hygiene management between batches, meal breaks, and start and end of days?				Minor	
	<b>Equip cleaning</b>					
7.13.	Are cutting and pruning tools and equipment cleaned and sanitised appropriately?				Major	
7.14.	Are tools and equipment used in the collection of propagation materials cleaned and sanitised appropriately?				Major	
7.15.	Are vehicles, equipment, machinery and tools cleaned appropriately?				Major	
7.16.	Are vehicles, equipment and machinery inspected appropriately upon arrival and prior to moving into or between work and/or growing areas?				Major	
	<b>Waste</b>					
7.17.	Is plant and other organic waste disposed of and/or treated adequately?				Major	
	<b>Work areas</b>					
7.18.	Are propagation work areas and surfaces kept clean and tidy, and sanitised where appropriate?				Major	
7.19.	Are other work areas and surfaces kept clean and tidy, and sanitised where appropriate?				Major	
	<b>Multiple sites</b>					
7.20.	Are measures in place to manage transfer risk between multiple sites?				Major	
	<b>Crop Monitoring</b>					7.3
7.21.	Does the nursery have documented crop monitoring procedures and evidence to show they are used?				Critical	
7.22.	Are records kept of crop monitoring activities, outcomes and corrective actions?				Major	
7.23.	Are records maintained of any pests and symptoms that were not able to be identified, subsequently sent for diagnostics and any resulting corrective action?				Major	
7.24.	Where practicable, are infested plants isolated until the detected pests are identified and corrective action undertaken?				Minor	

SEQ	Issue	Y	N	NA	Level	Reference / Notes
7.25.	Are records maintained of biosecurity issues raised by workers, customers and/or others and subsequent investigation and corrective action?				Minor	
7.26.	Is the producer aware of, and has a procedure to ensure compliance with, the National Pest Plant Accord and relevant Regional Pest Management Plans?				Major	
	<b>Traceability</b>					7.4
7.27.	Are records maintained to identify the source of all plant materials?				Critical	
7.28.	Are records maintained to identify the immediate source of other production inputs?				Major	
7.29.	Are records maintained to trace production batches through the production process?				Major	
7.30.	Are dispatch records maintained to identify the immediate distribution of all nursery outputs? (Noting that where a producer sells plants directly to the public, names and addresses of purchasers are not required to be recorded)				Critical	
7.31.	Is there a procedure in place in case of the need to react to a biosecurity crisis?				Minor	
	<b>Trusted Suppliers &amp; Inwards Supplies</b>					7.5
7.32.	Are trusted suppliers established for all production inputs?				Major	
7.33.	Are appropriate visual inspections in place to mitigate the risk of pests being introduced on inwards production supplies, their packaging and/or their transport upon arrival and prior to use?				Major	
7.34.	Are inspection records kept for incoming shipments of nursery production materials?				Minor	
7.35.	Are nursery production materials stored off the ground, free of pests and protected from plant debris and run-off water?				Minor	
7.36.	Does the nursery manage the risk from returned stock appropriately?				Major	



8. HAZARD MANAGEMENT - PART C1: ALL PRODUCTION TYPES/PROCESSES						
Section 8 criteria apply to all plant producers and their nursery(s) irrespective of the methods they use to grow their plants.						
SEQ	Issue	Y	N	NA	Level	Reference / Notes
	<b>Transplant</b>					8.1
	<b>Plant Stock for Planting</b>					8.1.1
8.1.	Are plant materials sourced from off-site isolated and inspected prior to introduction to nursery stock areas?				Critical	
8.2.	Are bought-in plant materials sourced from trusted suppliers?				Major	
8.3.	Are plant materials sourced off-site isolated for a period to ensure freedom from pests?				Minor	
8.4.	Are inspection records maintained for plant materials sourced from off-site?				Major	
8.5.	Are corrective action records are maintained?				Minor	
8.6.	Does the nursery have a procedure to manage risks associated with the collection of plant propagation materials?				Major	
8.7.	Does the nursery have accurate records of mother stock plant location to the extent that it could be relocated if need be?				Critical	
8.8.	Does the nursery have procedures to inspect mother stock plants prior to taking propagation material?				Critical	
8.9.	Are records maintained of mother stock plant inspections and any corrective action outcomes?				Major	
	<b>Growing media</b>					8.1.2
8.10.	Does the nursery have records of where growing media and/or its components come from?				Critical	
8.11.	Are growing media and/or component materials are sourced from trusted suppliers?				Major	
8.12.	Are inspection records are maintained of incoming shipments?				Major	
8.13.	Are growing media preparation processes, equipment and areas constructed to prevent contamination?				Major	

SEQ	Issue	Y	N	NA	Level	Reference / Notes
8.14.	Are growing media storage areas constructed to avoid contact with soil, and exclude ingress of plant debris, weeds and run-off water?				Major	
8.15.	If soilless growing media or components are recycled, are measures in place to manage pest contamination risk?				Major	
	<b>Fertilisers</b>					8.1.3
8.16.	If organic manures are used, has a risk analysis been undertaken, and any necessary measures put in place to manage any identified risk?				Major	
	<b>Containers (pots, bag, trays ...)</b>					8.1.4
8.17.	If containers are reused, does the nursery have documented hygiene procedures to address contamination risk and evidence to show they are used?				Critical	
	<b>Propagation</b>					8.1.5
8.18.	Does the nursery have documented hygiene procedures to manage contamination risk at propagation and evidence to show they are used?				Critical	
8.19.	Are tools and work surfaces cleaned and sanitised at the start and end of each day, and between batches?				Major	
8.20.	Are spilled growing media and waste organic materials collected and disposed of an appropriate fashion?				Major	
	<b>Potting and re-potting</b>					8.1.6
8.21.	Does the nursery have measures in place to avoid contamination during potting?				Major	
	<b>Growing</b>					8.2
	<b>Growing areas – all types</b>					8.2.1
8.22.	Are growing areas constructed to prevent contamination?				Critical	
8.23.	Does the nursery have measures in place to avoid contamination during transport to and between growing areas?				Major	
8.24.	Are greenhouse facilities cleaned and disinfected as appropriate?				Major	
8.25.	Are boundary risks well managed through a mix of controls and boundary zone monitoring?				Minor	

SEQ	Issue	Y	N	NA	Level	Reference / Notes
8.26.	Do growing areas drain well?				Minor	
8.27.	Is run-off and wastewater deflected from work and growing areas?				Minor	
8.28.	Are growing areas and paths constructed to prevent the build-up of standing water?				Minor	
	<b>Nutrition Amendment</b>					8.2.2
8.29.	Does the nursery have measures in place to avoid contamination while top dressing or fertigating?				Minor	
	<b>Crop protection</b>					8.2.3
8.30.	Does the nursery have a crop protection management programme describing pests of concern and management actions?				Critical	
8.31.	Does the nursery have a person designated to manage crop protection and prepare crop protection plans?				Major	
8.32.	If agrichemicals are used, are procedures in place to minimise the risk of resistance build-up using effective agrichemicals and appropriate product rotation?				Major	
8.33.	Do all agrichemical users hold appropriate certification?				Minor	
8.34.	Is an agrichemical usage diary maintained?				Minor	
8.35.	Does the crop protection management programme describe measures for managing weed hazards?				Critical	
8.36.	Is the nursery free of flowering weeds where there is a likelihood of weeds being distributed with nursery stock?				Critical	
	<b>Dispatch</b>					8.3
8.37.	Is the dispatch area kept clean and tidy and waste material collected and disposed of in a timely and safe fashion?				Major	
8.38.	Does the nursery have a procedure for dispatch inspection and management of any potentially contaminated plants?				Major	
8.39.	Are records maintained of pre-dispatch plant inspection, any pests detected and corrective action?				Minor	

8.40.	Are packaging materials (pallets, crates, trolleys, cartons ...) free from contamination and risk materials?				Minor	
	<b>Plant Distribution and Transport</b>					8.4
8.41.	Is contamination risk during transport appropriately managed?				Minor	
<b>9.</b>	<b>HAZARD MANAGEMENT - PART C2: CONTAINER PRODUCTION PROCESSES</b>					
	<b>Section 9 criteria apply only to plant producers who undertake all or part of their production using containers (pots, bags, trays ...)</b>					
<b>SEQ</b>	<b>Issue</b>	<b>Y</b>	<b>N</b>	<b>NA</b>	<b>Level</b>	<b>Reference / Notes</b>
	<b>Transport – Container Production</b>					9.1.1
9.1.	Does the nursery have measures in place to avoid contamination during transport to and placement in the growing area?				Major	
	<b>Growing areas – Container Production</b>					9.2.1
9.2.	Are ground level growing areas suitably surfaced to aid drainage and prevent container contact with soil?				Major	
9.3.	Is the growing area cleaned and sanitised between batches?				Major	
	<b>Plant Handling – Container Production</b>					9.2.2
9.4.	Does the nursery have measures in place to avoid contamination while handling plants in the growing area?				Major	
	<b>Irrigation – Container Production</b>					9.2.3
9.5.	If water is sourced from at-risk supplies (example: surface features including rivers, ponds, dams), is it tested at least annually for pathogens, and if needed, treated appropriately?				Major	
9.6.	If water recycled, is it tested for pathogens at least annually and treated prior to reuse?				Major	
	<b>Waste – Container Production</b>					
9.7.	Are waste storage areas isolated from work and growing areas and managed to prevent pest spread?				Major	

10. HAZARD MANAGEMENT - PART C3: BARE ROOT / FIELD PRODUCTION PROCESSES						
Section 10 criteria apply only to plant producers who undertake production steps that include growing plants in the field. That is, part of the production cycle includes plants being grown directly in soil.						
SEQ	Issue	Y	N	NA	Level	Reference / Notes
<b>Transport to and planting in field</b>						
10.1.	Is the growing area cleaned and treated appropriately between crops?				Major	10.1.1
10.2.	Are pathways and roads adjacent to growing areas constructed to reduce contamination from water splash?				Minor	
<b>Growing areas – Bare Root / Field Production</b>						
10.3.	Is appropriate testing undertaken for soil and water borne pathogens?				Major	10.2.1
10.4.	Where fields are used repeatedly for cropping is appropriate soil disinfestation undertaken and records kept?				Major	
<b>Waste – Bare Root / Field Production</b>						
10.5.	Is the risk of pest contamination arising from organic waste managed appropriately?				Major	10.2.2
<b>Harvest from field</b>						
10.6.	Are appropriate measures in place to prevent pest contamination through handling and evidence to show they are used?				Critical	
10.7.	Are appropriate measures in place to prevent pest contamination through transport to store and evidence to show they are used?				Major	
<b>Storage Prior to Processing – Bare Root / Field Production</b>						
10.8.	Are appropriate measures in place to prevent pest contamination through transport to processing and evidence to show they are used?				Major	10.3.1
10.9.	Are appropriate measures in place to prevent contamination during receipt and storage prior to processing? (For within the unprocessed product, and prevention of cross contamination to other product in store)				Critical	

SEQ	Issue	Y	N	NA	Level	Reference / Notes
	<b>Processing – Bare Root / Field Production</b>					10.3.2
10.10.	Does the nursery have systems in place to avoid contamination during processing?				Critical	
10.11.	Are processing facilities and equipment cleaned and sanitised on a regular basis?				Major	
10.12.	Is the processing area kept clean and tidy and waste material collected and disposed of in a timely and safe fashion?				Minor	
10.13.	Are tools and surfaces sanitised at the start and end of each day, and between batches?				Major	
10.14.	Are checks in place during processing to monitor for pests and diseases?				Major	
10.15.	Is there clear separation between unprocessed and processed product to avoid cross contamination?				Major	
10.16.	Is the product protected from risk of contamination post processing?				Critical	
10.17.	Are appropriate measures in place to prevent pest contamination through transport to dispatch store and evidence to show they are used?				Major	
	<b>Storage – Bare Root / Field Production</b>					10.3.3
10.18.	Are appropriate measures in place to prevent contamination during storage and is there evidence to show they are effective				Critical	
10.19.	Are checks in place during cool storage to monitor pests and diseases?				Critical	
<b>11.</b>	<b>DOCUMENTS AND CLAIMS</b>					
11.1.	Are Scheme identification requirements being adhered to? (Nursery ID, printed material claims)				Minor	11

20. MYRTLE RUST SPECIFIC MODULE							
	The following criteria apply only to producers who grow plants from the <i>Myrtaceae</i> family. They should be considered in association with the Plant Pass Myrtle Rust Specific Module.						Most References are to materials on NZPPI Myrtle Rust Production Management System: <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
SEQ	Issue	Y	N	NA	Level	Reference / Notes	
<b>Management and workers</b>							
20.1.	Are workers aware of any MPI mandated or other regulatory requirements?				Critical		
20.2.	Are workers aware of what signs and symptoms of myrtle rust and what to do if they find anything suspicious?				Critical		
20.3.	Is this document and the Myrtle Rust identification guide made available to workers?				Major	MR ID guide <a href="http://www.myrtlerust.org.nz/recognise/">www.myrtlerust.org.nz/recognise/</a>	
20.4.	Does the workers training programme adequately cover myrtle rust risk management?				Major	NZPPI Myrtle Rust Production Management System: <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>	
20.5.	Has the nursery got a documented myrtle rust corrective action and response procedures?				Major		
<b>Site Management</b>							
20.6.	Are myrtaceous species aggregated within a defined area of the nursery?				Minor		
20.7.	Are growing areas treated with an appropriate disinfectant upon the completion of the crop growing cycle and before placing a new crop down on growing beds or benches?				Minor		
20.8.	If it is practicable, have myrtle rust host species been removed from boundary and nearby plantings?				Minor		
<b>Hygiene</b>							
20.9.	Are workers aware that spores can be carried on clothing. Contaminated clothing is a considerable risk - are measures in place to manage this?				Minor		

SEQ	Issue	Y	N	NA	Level	Reference / Notes
20.10.	Is machinery moved into the nursery production area from off-site inspected and appropriately cleaned and washed?				Minor	
20.11.	Is all nursery waste, including sweepings from trucks, disposed of an appropriate manner – example, bag and dispose of via bulk waste, (thorough) composting or deep burial?				Minor	
<b>Sourcing plants and plant materials</b>						
20.12.	Are stock plants rigorously inspected for the presence of myrtle rust before cuttings are taken or seed collected?				Critical	MR Survey Protocol at <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
20.13.	Is all myrtaceous plant stock sourced from off-site isolated upon arrival and inspected before transferring it into the nursery production area?				Critical	MR Plant Production Management Protocol at <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
20.14.	Is all myrtaceous plant stock sourced from other nurseries inspected on arrival for symptoms of myrtle rust?				Major	
20.15.	Are stringent hygiene measures applied by workers, and to machinery, vehicles and packaging when they return from collecting myrtaceous plant material (cuttings or seed) from off-site?				Major	
<b>Monitoring and Crop Protection</b>						
20.16.	Does the producer implement a risk-based approach to crop monitoring and protection activities?				Critical	MR Plant Disease Management Platform at <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
20.17.	Are surveys conducted of all myrtaceous species on-site - this includes production stock and plants along boundaries and roadways?				Critical	MR Survey protocol at <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
20.18.	Are appropriate myrtle rust fungicide treatments undertaken?				Critical	NZPPI MR Prevention with Fungicides Protocol at <a href="http://www.nzppi.co.nz/MYRTLE-RUST/29561/">www.nzppi.co.nz/MYRTLE-RUST/29561/</a>
<b>Plant dispatch</b>						
20.19.	Has the producer a documented pre-dispatch crop inspection?				Major	



22. KAURI SCHEDULE						
	<p>The following criteria apply only to producers who grow <i>Agathis australis</i> (Kauri) and other identified alternate hosts of the pathogen <i>Phytophthora agathidicida</i> (kauri dieback)<sup>3</sup>. They should be considered in association with the Plant Pass Phytophthora Specific Module and the <i>Phytophthora agathidicida</i> Schedule.</p>					References are made to the Kauri Schedule and in brackets the PA National Pest Management Plan <sup>4</sup>
SEQ	Issue	Y	N	NA	Level	Reference / Notes
22.1.	<p><b>Unwanted Organism:</b> Is management aware that <i>Phytophthora agathidicida</i> is an unwanted organism under the Biosecurity Act and that it is an offence to sell or propagate plants that one suspects contain an unwanted organism?</p>				Critical	
22.2.	<p><b>Management policy:</b> Has the nursery a documented <i>Phytophthora agathidicida</i> management plan?</p>				Critical	5.1 (Rule 3.3a)
22.3.	<p><b>Worker awareness:</b> Are workers aware of signs and symptoms of <i>Phytophthora agathidicida</i> and what to do if they find anything suspicious?</p>				Critical	5.1 (Rule 3.1)
22.4.	<p><b>Forest risk management:</b> Has the nursery documented procedures to manage the risk associated with visiting kauri forests?</p>				Critical	5.2 (Rule 8)
22.5.	<p><b>Crop Monitoring:</b> Has the nursery documented procedures for weekly kauri crop monitoring and evidence to show they are used?</p>				Critical	5.3 (Rule 3.3f)
22.6.	<p><b>Traceability:</b> Are batches established for kauri production and able to be followed through the production cycle?</p>				Critical	5.4 (Rule 3.3e)
22.7.	<p><b>Crisis readiness:</b> Has the nursery a documented response procedure in case of signs and symptoms of <i>Phytophthora agathidicida</i> being suspected, plant decline or a positive diagnostic test result?</p>				Critical	5.4 (Rule 3.3i)
22.8.	<p><b>Seed collection:</b> Has the nursery documented procedures to manage the risk associated with collecting seed?</p>				Critical	5.5 (Rule 3.3b)
22.9.	<p><b>Growing Media:</b> Has the nursery documented procedures to manage the risk associated with growing media?</p>				Critical	5.6 (Rule 3.3c)

<sup>3</sup> Alternate hosts – at date of writing (9 October 2019) no alternate hosts have been identified.

<sup>4</sup> <https://www.kauriprotection.co.nz/national-plan/about-the-plan/>

SEQ	Issue	Y	N	NA	Level	Reference / Notes
22.10.	<b>Containers (pots, bags, trays ...):</b> If reused, are containers first cleaned and then sanitised?				Critical	5.7 (Rule 3.3d)
22.11.	<b>Growing</b> Has the nursery documented procedures to manage the risk associated with activities through the growing cycle?				Critical	5.8 (Rule 3.3d)
22.12.	<b>Crop Protection:</b> Is the use of fungicides for the control of <i>Phytophthora</i> avoided?				Critical	Refer Plant Pass Phytophthora Specific Module (Doc 21)
22.13.	<b>Holding Period:</b> Has the nursery a documented pre-dispatch holding and monitoring procedure and evidence to show it is used?				Critical	5.9 (Rules 3.3g and 3.3h)