Chestnut Blight Biosecurity update February 2024 Field Day Trevor Ranford and Elke Jasper

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summary

- People need to regularly survey their own property and look for changes and symptoms of blight. Send their own surveillance data to IBO.
- Surveying future properties.
 - Last opportunity to learn about Blight and hygiene measures -to be trained in the field
- Remove infections as soon as possible, that means remove entire tree and burn
- Maintain hygiene practices to prevent disease spread ٠ throughout your orchards

Through surveillance, engagement, support & education we hope to manage the blight threat to our chestnut orchards

Guide to managing chestnur

Introduction

Update on surveys - July 21

- 151,000 trees have been surveyed
- Delineate areas :-present/absent

Smoko, Freeburg, Germantown, Buckland, Porepunkah, Buckland Valley, Havilah, Rosewhite, Stanley, Beechworth, Murmungee and Gapsted and Batlow.

- Working toward completing Myrtleford, Buffalo River and Tawonga
- Working on regular surveys for new IPS and annually older IPS





Infected properties

- Only Wandiligong, Eurobin and Buffalo River have infected properties
 - -15 samples were positive for Chestnut Blight (*Cryphonectria parasitica*).
 - -13 properties infected, some with multiple infections over time within the orchard areas
- Recently infected property in Buffalo River old infections.





Time of the year



SELF SURVEY:

- Essentially growers undertake their own inspections. CAI can only do a certain amount of orchard inspections.
- The focus of self surveys should be continuous throughout the year.
- On completion of self surveys return your form to the Chestnut IBO (the information will be kept confidential)





The more spore load.....



We have surveyed high and low through, thick and thin to find Chestnut blight !



Blight – Recap close up how different it can look. As you remember!





SYMPTOMS- what to look for!

INFECTED TREE

MYCELIUM FANS



STROMA & LESIONS



Cryphonectria parasitica (Murrill) Barr

Taxonomic position: Fungi: Ascomycetes: Diaporthales
Disease common names: Chestnut blight or canker



Super spreader event – sexual phase





ADDRESS TORN

healthy tissue below cankers.





Hygiene on farm- tree removal

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- Survey trees regularly for any changes Remove dead dying limbs/trees Suspect tree infection- sample Inform pruners and employees Wrapped/cover tree or pruning's. Remove infected tree and roots as soon as possible- to reduce spore load.
- Hygiene kit equipment use- methylated spirits/water solution & you wash clothing, boots and anything you carry.

Chestnut Blight

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Hygiene in the orchard – checking wood heaps, removal of dead and dying trees



Infected Wood pile







Infected treebranches on ground owner unaware



BURN



Removal of infected Chestnut trees

- CAI is working with property owners to remove blight-infected trees,
- 7 IPs are cleared at the moment, while the remainder progressing toward removal.
- Pulling up entire infected chestnut tree.
- Growers need to assist with the process.



Trees uprooted and burnt insitu



Ready to burn









Problem - the big wood and stumps did not burn

Subject to high heat until complete burning is possible







Clean up as soon as possible and burn, if not possible cover.





Older stumps - infected



- Best ways to control blight is to be proactive -
 - * inspect,
 - * sample,
 - * remove,
 - * burn.
- Through early and complete removal of infected trees you can prevent spread.

Infected propertiesvery steep terrain unable to remove entire trees owner has burnt to ground level all plant material raked and burnt inset tree roots remain – monitor 2 years

In this case!













Plastic sheet

WASH CLOTHES & HATS

CLEAN VEHICLES & EQUIPMENT

ASK FOR HELP

Chestnut Blight

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- Surveys have and will delineate blight infected areas
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Questions



