

The background of the slide is a close-up photograph of several green leaves. The leaves show significant damage from insects, with numerous small, dark, irregular holes and larger, irregular brown spots scattered across their surfaces. The leaf veins are clearly visible. A thin red horizontal line is visible near the top of the image.

Taskforce Green Update

Grant Eynon/Michael Franks



The outbreak continue to get worse



> Continuing infection at a time when we thought we might get some respite.



A working partnership created

TASKFORCEGREEN NETWORK





External Network Members

- > Professor Iain Lamont
 - » Otago University
- > Associate Professor Russell Poulter
 - » Otago University
- > Dr John Aitken
 - » Christchurch
- > Dr Dave Ackerley
 - » Victoria University
- > Dr Terry Cooney
 - » Hamilton
- > Dr Jerome Demmer
 - » Auckland
- > Dr John MacKay
 - » Gisborne

Group has been advised by

- > Sir Ray Avery



Objectives

- > A small number of novel research themes targeted at short term and long term solutions
 - » Lifting our capability
 - » Understanding PSA
 - » Protective strategies
 - » Systemic solutions
 - » Plant responses
 - » Resistance

Lifting our capability - VLS laboratory



- > Rapid detection test
 - » Independently validated and robust
 - » Detects Psa-V and differentiates all known PSA strains
 - » Same day results
 - » 250 tests a day
 - » Leaves, canes, vines, roots
- > PC2 laboratory
 - » Physical Containment status
 - > MAF certified
 - > Approved culture unwanted organisms
 - » Testing effectiveness of treatments

Understanding PSA an example

- > Airborne detection trial detected PSA V in a net above the orchard !
- > New field based trial swabbing artificial shelters.
- > We have “caught PSA V in the atmosphere”
- > When is it prevalent ?





Antibiotic Trial

- > Antibiotics shown to have good lab efficacy
- > Applications made and approved by EPA (ERMA) and AVCM (MAF) for field trials.
- > Detailed research project plan developed and approved
- > Secure location obtained for trials.
- > Trials have been deployed



Orchard trials detail

- > Significant lab work undertaken to work out the efficacy of the antibiotics and resistance
- > Four product combinations being trialled
- > Directly injected into the vines and locked into vines
- > 160 vines
- > Testing regime in place.

Antibiotics testing example



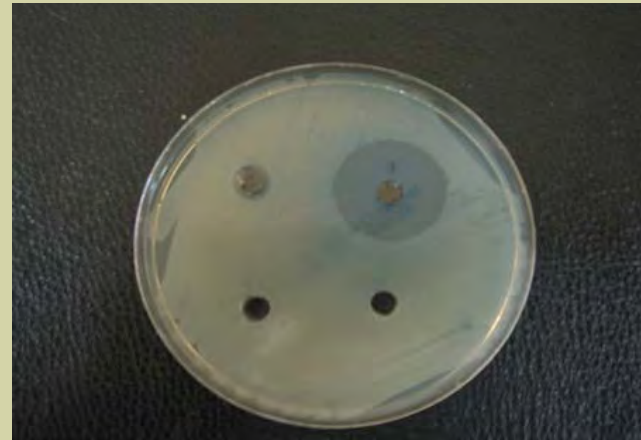
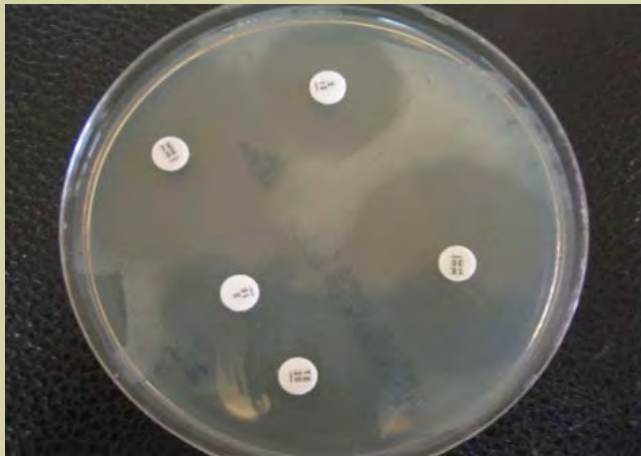
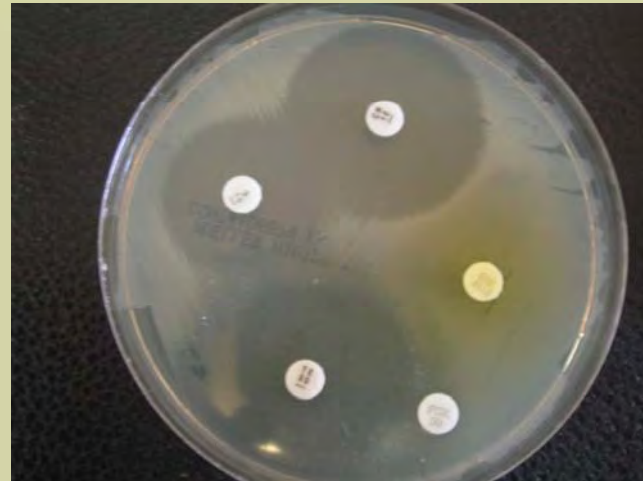
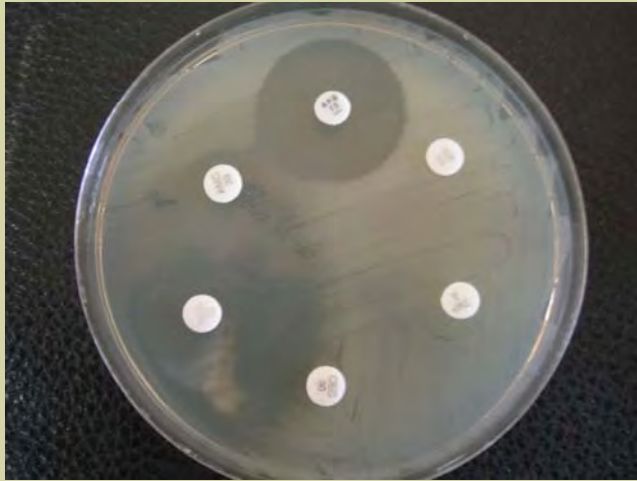
Other product trials example



Figure 1

Figure 1 – Jeyes disinfectant fluid compared to a combination of novel products.

Other examples



Various antibiotic formulations and other product trials – extensive lab work since performed (29/6)
www.seeka.co.nz



Forward focus

- > Antibiotic trials – then registration and deployment if successful
- > Genomic sequencing – an important foundation to our program
- > Resistance testing
- > Novel products



Taskforce Green Network

- > Commercially funded by EastPack and Seeka
- > Is a network of leading scientists and consultants from across New Zealand
- > It is active and working well
- > Both Seeka and EastPack and our growers are grateful for the significant commitment made by the team.



END





***TASKFORCEGREEN
NETWORK***

Psa Injection Trials

25 July 2011