



# **On-orchard Biosecurity**

## ***“Breaking the Psa Paradigm”***

**Matt Dyck**  
**August 2017**



# Over 90 threats to kiwifruit...so far



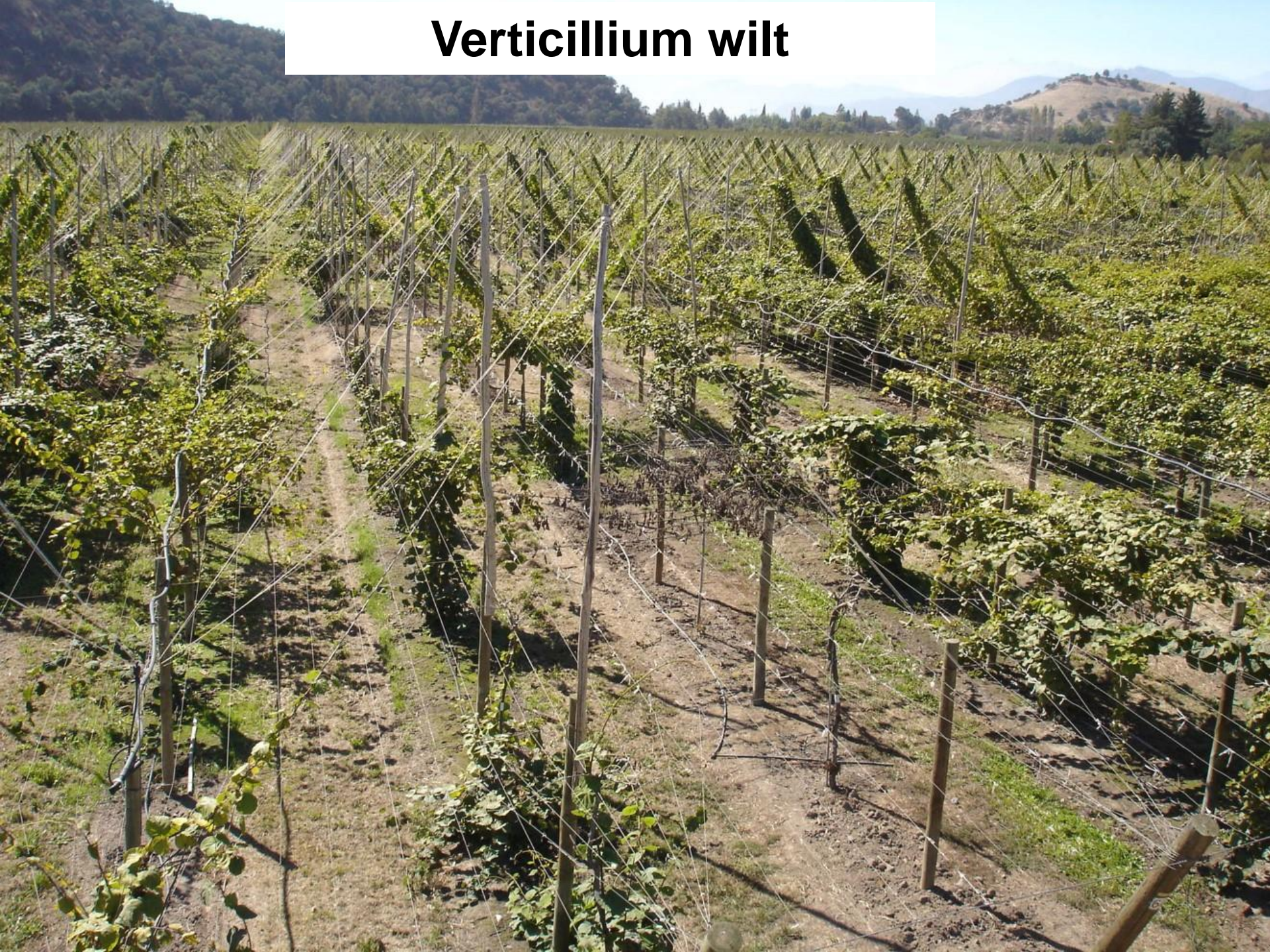




  
CUIDA TU SEGURIDAD  
USAR EL CASCO  
RESPONSABLE CON  
HERRAMIENTAS DE TRABAJO



# Verticillium wilt





# *Incursions are not detected on day 1*

The New York Times

EUROPE

## *Fear of Ruin as Disease Takes Hold of Italy's Olive Trees*

By JIM YARDLEY MAY 11, 2015



# *Ceratocystis fimbriata* - means of spread

## Natural spread is limited:

- » Soilborne fungus
- » Root grafts
- » Potentially some movement by wood-boring beetles
- » Wind-blown sawdust and frass from borers

## Human-assisted spread:

- » Propagative material (e.g. cuttings)
- » Pruning tools, packing material
- » Other equipment



# Why do we need on-orchard biosecurity practices

1. Number of significant risks offshore
2. Preventing spread prior to detection gives us the best shot at eradication or containment
3. Key component in our wider efforts for better biosecurity protection





# YOUR LIVELIHOOD IS AT CONSTANT RISK

## KIWIFRUIT BIOSECURITY THREATS COULD AFFECT:

- ORCHARD GATE RETURN
- JOBS
- COMMUNITY

THE NEXT  
BIG THREAT  
COULD BE HERE,  
UNDETECTED AND  
SPREADING.

IT MIGHT ALREADY  
BE ON YOUR  
DOORSTEP.

YOU HAVE  
THE POWER TO  
PROTECT YOUR  
LIVELIHOOD.

## PROTECT YOUR INVESTMENT



### UNDERSTAND YOUR RISKS

- What pests and diseases could arrive from offshore?
- What is happening in my local area?
- How might these enter my orchard? (Who and what enters my orchard that might bring these in?)



### AGREE WHAT MUST HAPPEN ON SITE

- Share knowledge with staff and contractors.
- Agree requirements and ensure that they are met.



### SOURCE CLEAN PLANT MATERIAL

- Rootstock, budwood, pollen, shelter and compost.
- Kiwifruit Plant Certification Scheme (KPCS) certification is mandatory for sourcing rootstock.



### CHECK AND CLEAN

- Consider the risk from: tools, vehicles and machinery, harvest bins, people, clothing.
- Ensure everything coming across your boundary is free from soil and plant material.
- Sanitise highest-risk items.
- Clean tools at least between rows.

## REPORT THE UNUSUAL



CATCH IT SNAP IT REPORT IT

CALL KVH 0800 665 825





# KVH Grower Survey

- Survey has been out for 3 weeks on KVH website
- Still looking for more participation
- Survey looking to
  - understand the current level of knowledge around biosecurity risks
  - What barriers maybe preventing the adoption of biosecurity best practices





# KVH Grower Survey

- Feedback will be valuable in helping us develop a roll out plan that reduces as many barriers as possible.
- Will develop next steps once we have analysed the research data
- Key to success in changing grower behaviours is understanding the barriers to change







**CATCH IT**



**SNAP IT**



**REPORT IT**

**REPORT THE UNUSUAL**

CALL KVH **0800 665 825**