

# The PCE's call to action on native ecosystem weeds

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#### A tremendous investigation

- A personal introduction
- An overview
- 9 chapters
  - 7 recommendations
- 233 pages
- >25,000 exotic plants introduced
  - ca. 3,000 growing wild
  - ca. 1,800 naturalised
  - 334 regulated pests
  - 380 environmental weeds

#### Space invaders:

A review of how New Zealand manages weeds that threaten native ecosystems







## Touching on the breadth of the report

- 1. <u>Introduction scope</u>
- 2. Plant invasion ecology current state
- 3. Future threats
- 4. What do we know?
- 5. Prioritising which weeds to manage, where & how
- 6. Regulations for exotic plants
- 7. What happens in practice who's involved
- 8. Local communities in action
- 9. <u>Recommendations</u>

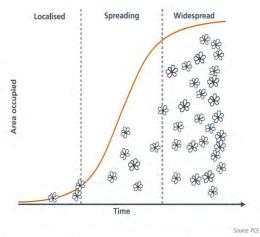
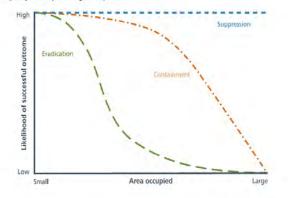


Figure 2.5: The area occupied by a naturalised plant species invading a new region can be small at first but then grows quickly as the species begins to spread.



Source: PCE

Figure 5.2: Area occupied by a weed has a major bearing on the choice of management options. For instance, successful eradication is more likely for weeds only occupying small areas but may still be justified for a more widespread weed if it is known to be causing considerable harm.



# Aim to answer these questions:

- Are the ecological risks posed by exotic plants to the integrity of NZ's native ecosystems adequately known?
- Are these ecological risks then adequately understood by the organisations and individuals charged with managing exotic plants in native ecosystems?
- Do the organisations and individuals charged with management have the information, skills and resources necessary to do a good job?
- Are they making sensible strategic choices about where resources get spent given the nature of emerging and future challenges?
- Is the regulatory system fit for purpose in light of the above?
- Are all organisations, groups and individuals coordinated (and incentivised) in their efforts to manage the right exotic plants?



#### Recommendations

- Clearer direction from Ministers
- 2. Joint leadership from MPI & DOC
- Joint National Policy Direction (NPD) focused on native ecosystem weeds
- 4. Joint NPD could form part of current NPD or stand on its own

- 5. Policy requires iwi & hapū engagement and minimum content
  - National priority weeds expert input, coordinated management & surveillance
  - Manage emerging weeds surveillance
  - Coordinate national & regional efforts
- Single, authoritative, publicly accessible database
- 7. 'Emerging risks' team to scan for & coordinate management of new weeds

## What role can we play?

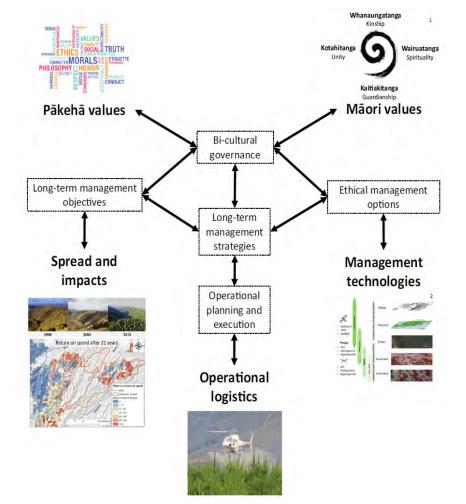
- Can we fill gaps where risks aren't known?
- Can we communicate risks better?
- Can we make information, skills and resources more available?
- Can we better enable good strategic choices?
- Can we inform changes to the regulatory system?
- Can we build more effective partnerships and networks?

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What can we do to help make these recommendations become reality?

#### **Working collectively**

- National Biocontrol Collective
- National Wilding Conifer Control Programme
- Questions about weeds in Survey of Rural Decision Makers



# **Strategies for management**

- Risk assessment
- Detection methods
- Control techniques

• What if ...?



Pip and Mawhai, scent detection dogs being trained to sniff out

Phytophthora agathidicida

Pūtaiao Issue 10







#### **Getting the best use out of information**











#### **Future focus**

- Where are known weeds going to pop up next?
- Is the job done after we've controlled a weed population?

Wilding conifer population (black) and impact (red)

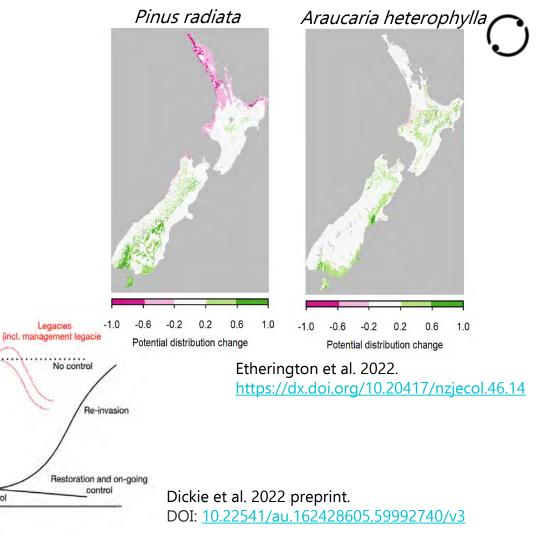
Tipping

Tipping

(delayed impacts)

Time

Control







Thank you Tēnā koutou katoa

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#### **Additional information**

Testimony to Environment and Primary Production Select Committees (10 March 2022) https://www.facebook.com/environmentSCNZ/videos/661932801723434/



Weed Biocontrol: What's new? Issue 100

Submissions to these select committees from DOC & MPI (2 June 2022)

https://www.facebook.com/environmentSCNZ/videos/706334123969101/