





Hobbits caught possessing an evil weed

DAVE HANSFORD

AS PETER Jackson's epic film The Lord of the Rings screens around the world. thousands of people are being treated to a glimpse of New Zealand's natural beauty.

But for one filmgoer, the vision was spoilt by the appearance of a pest more villainous than Gollum

Conservation Department diversity officer John Sawyer noticed the opening scenes, Frodo sat amid an h tation of tradescantia fluminensis, or wandering willie, a serious pest plant in Wellington, and apparently, Hobbiton.

"I was shocked to see that Middle Earth has weeds just like everywhere

"I spent the rest of the film trying to spot weeds as well as follow the story." he said.

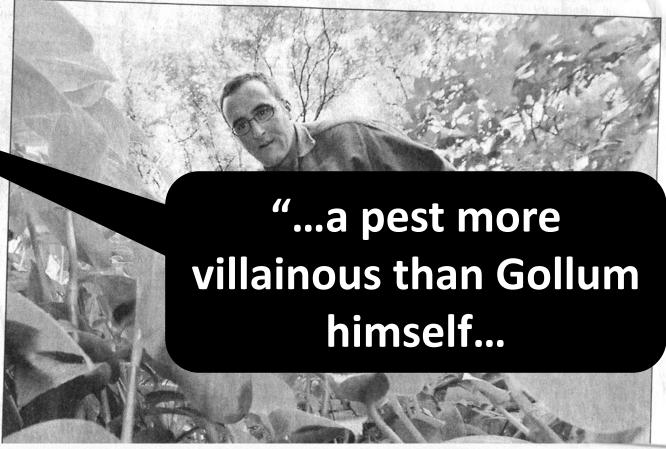
Mr Sawyer said tradescantia had been brought to New Zealand from Brazil in 1916 as an ornamental plant.

"It's quite pretty in its rightful place and it's easy to grow, but it is almost too easy.

"The weed is now common throughout most of the country, and it is threatening native forests and reserves."

He said fragments of the plant broke off and could spread quickly.

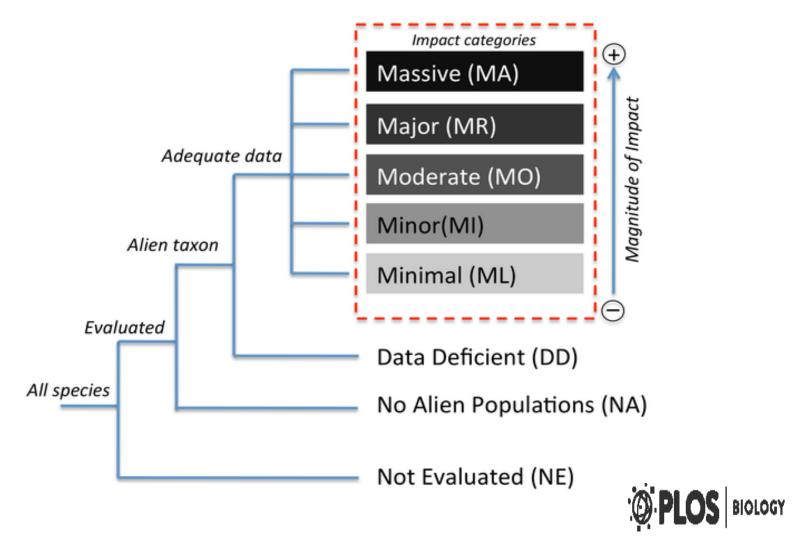
"That's why when people try to got mid



DOC officer hopping mad over Hobbiton The first shot of Hobbiton in the Lord of the By Lindsay James Feb 19 2002

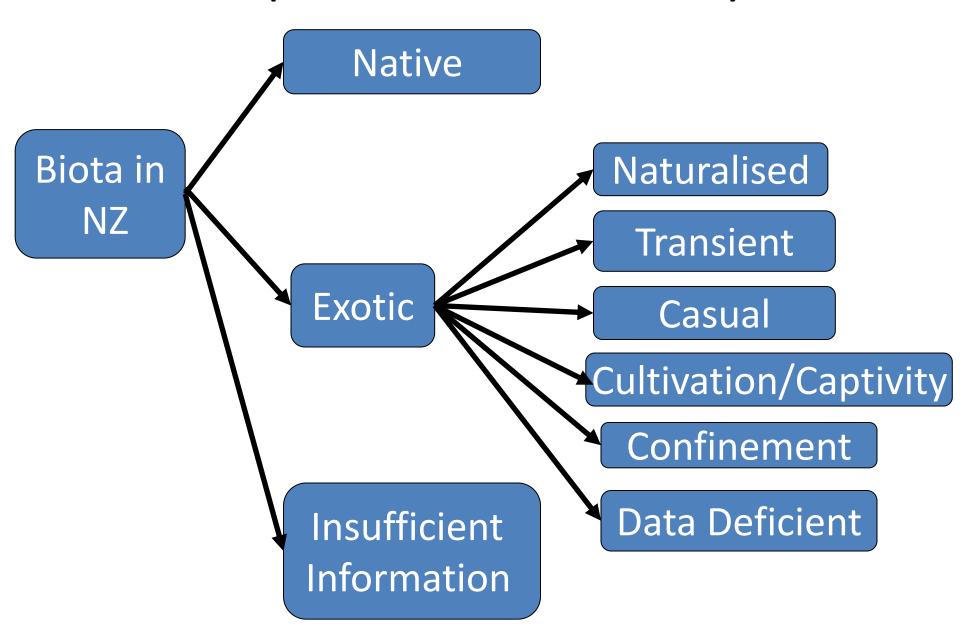


Classification: Alien species impact scheme

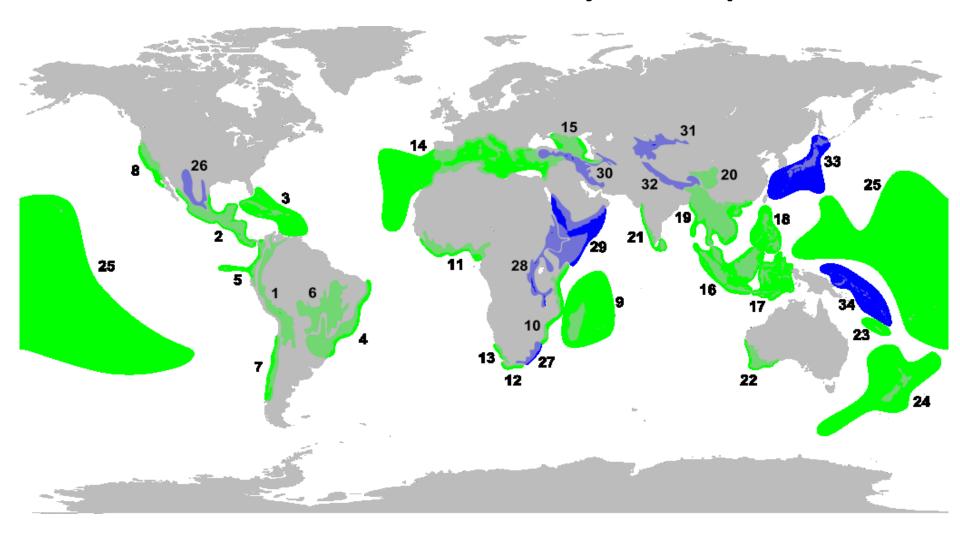


Blackburn TM, Essl F, Evans T, Hulme PE, et al. (2014) A Unified Classification of Alien Species Based on the Magnitude of their Environmental Impacts. PLoS Biol 12(5): e1001850. doi:10.1371/journal.pbio.1001850

Exotic species classification system



Global biodiversity hotspots



Myers, N., R. A. Mittermeier, C. G. Mittermeier, G. A. B. da Fonseca, and J. Kent. 2000. Biodiversity hotspots for conservation priorities. <u>Nature 403:853-858</u>



Photo: jidanchaomian, via Flickr. Distributed under a CC BY-SA 2.0 license



1,984

Species of native vascular plant not found anywhere else in the world

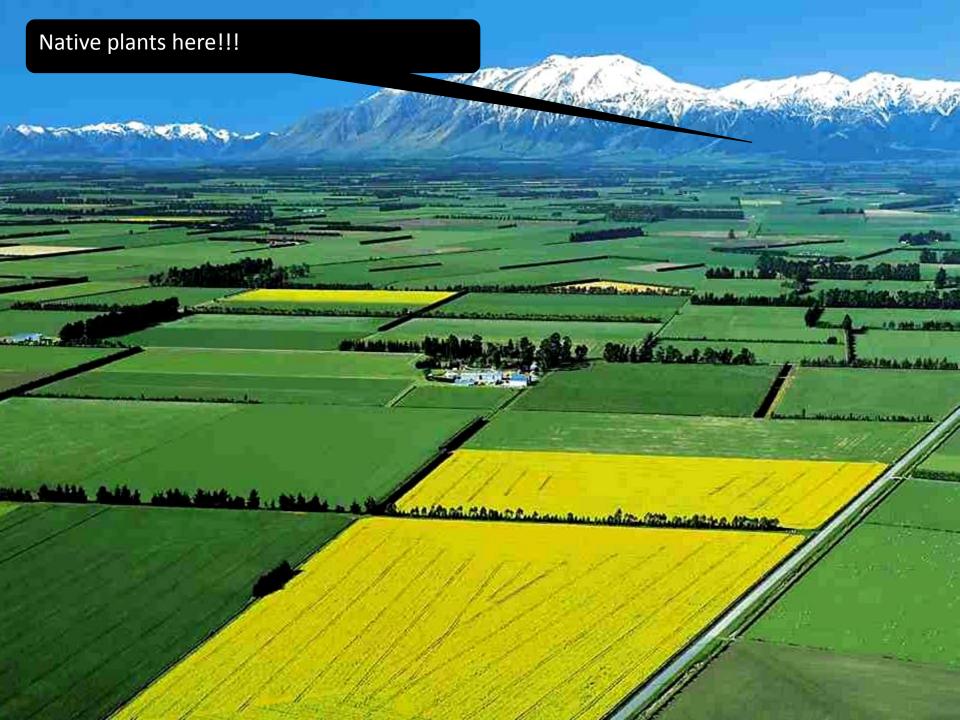




"New Zealand is as close as we will get to the opportunity to study life on another planet"

Jared Diamond, 1990

New Zealand's invasive species problem



Creating a "Britain of the South by transplanting everything of England, in short, but the soil" – New Zealand Company Advertising 1847

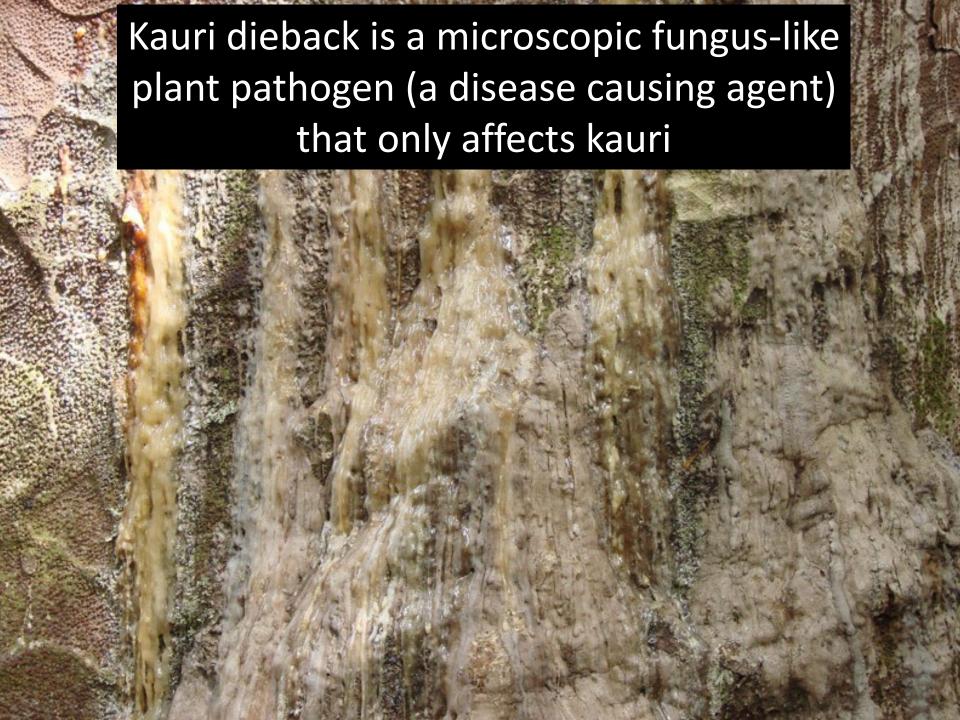


The endemic products of New Zealand...are perfect one compared with another; but they are now rapidly yielding before the advancing legions of plants and animals introduced from Europe.

Charles Darwin 1859: On the Origin of Species













Kopuatai Swamp Japanese honeysuckle Image © 2007 DigitalGlobe •2007Google" Image © 2007 TerraMetrics Eye alt Pointer 37°28'49.44" S 175°33'08.58" E elev 2 m Streaming ||||||| 100% 85 m

NZ Biosecurity Legislation

- NZ Biosecurity Act 1993
 - Power to make unwanted species illegal (nationally and regionally)
 - an offence to sell, propagate, breed, release or display an unwanted organism or pest
 - Provides for a National and Regional Pest
 Management Strategies
- Biosecurity implied in other Acts:
 - Reserves Act
 - Conservation Act
 - Resource Management Act

Challenges for biosecurity in New Zealand

Awareness

Demonising pests to gain public support

Economic importance of some pests

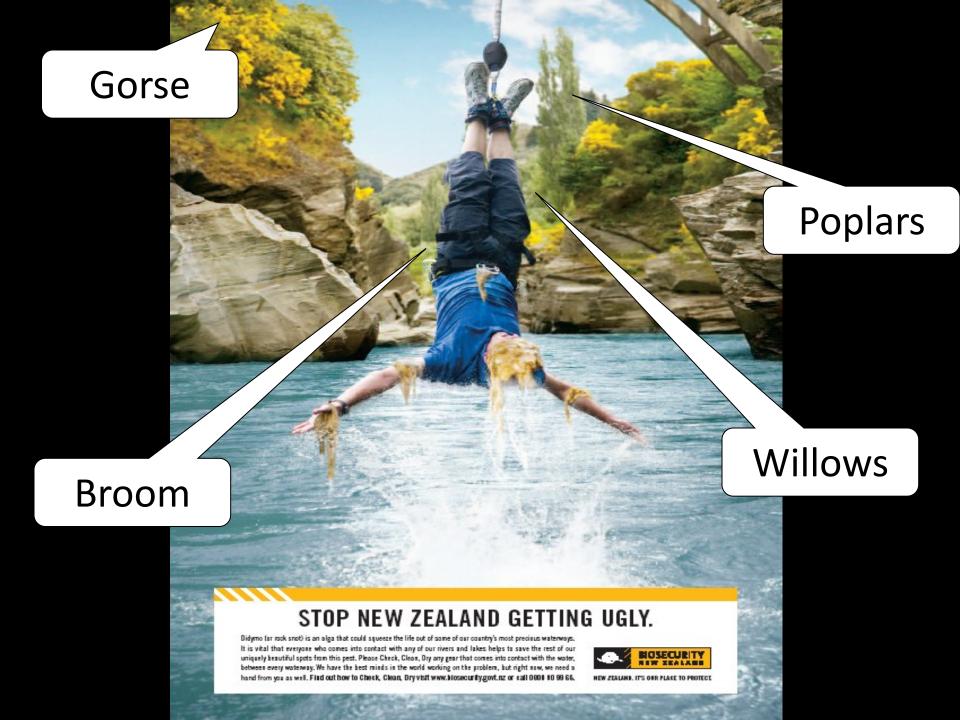
 New types of pest and disease (e.g., phytopthera)

Shifting baselines and acceptance









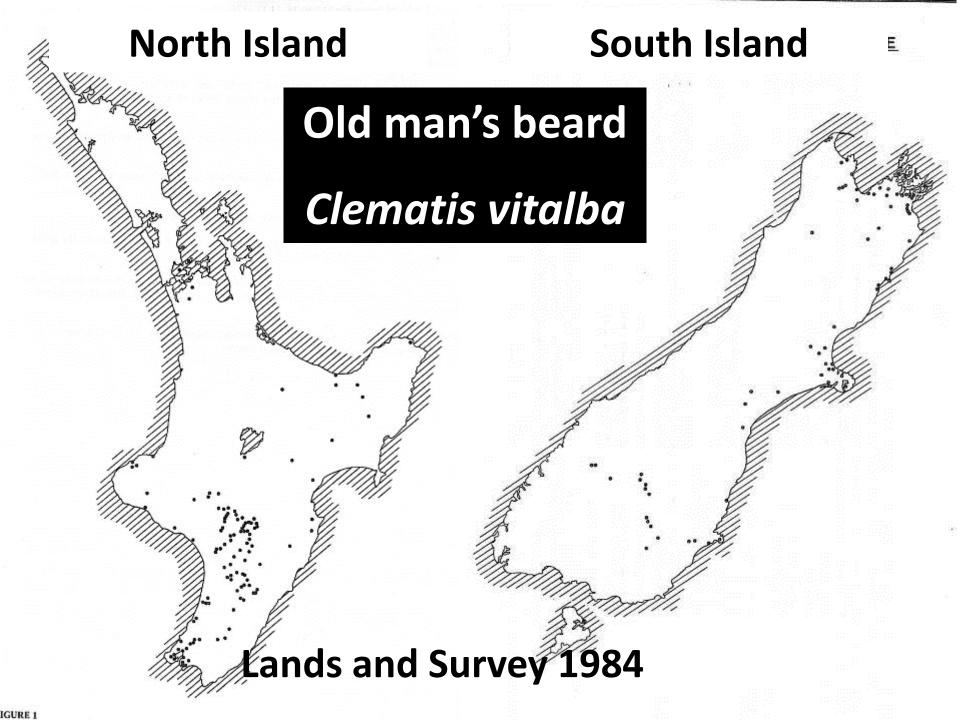
Control and Data

Control

- Need for urgent response
- Overstated risk and misapplied effort
- Fragmentation of effort
- Limited efficacy of eradication
- Lack of skills and funding

Data

- Mobilising existing data
- Speed of data flow to people that kill pests
- Identification skills



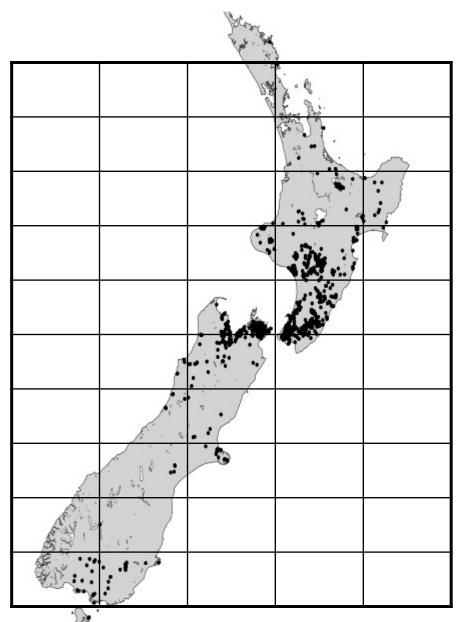
Old man's beard

1984

26.4% of grid squares occupied

2007

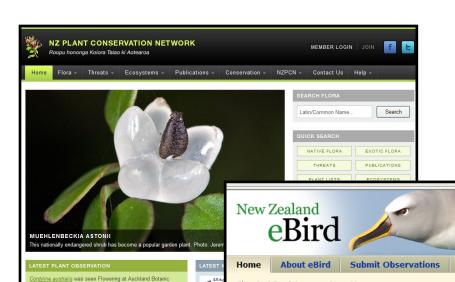
40.6% of grid squares occupied



BIOWEB 2007



Recording pests in NZ







Where are the birds?





Welcome to FORMAK - The Forest Monito

FORMAK Forest Monitoring Manual

Contains all the explanations and instructions y

FORMAK Field Kit

Find out about the field kit and how to purchas

Data Entry

Gardens by Bec Stanley on 20/11/2012.

IND OUT HOW TO RECORD YOUR OWN OBSERVATIONS.

This is where you log in to enter your FORMAK data

Reports

Generate tables and charts from your data

Training

Find out about the training courses available

This web site forms part of a monitoring kit designed for immediate use by land owners, landcare grounds.

Birding News and Features

200 Countries, 8665 Species, and Counting!

November 02, 2010

Sign In | Register as a New User

When Chet Ogan submitted a checklist on the 22nd of October for Bangladesh, he probably didn't realize that this was our first checklist for the country. More than that, this checklist represented the 200th country* where eBird now has at least one checklist. This includes 8665 species contributed by over 45,000 people. We would like to thank our passionate eBirders for contributing their observations to eBird where they can help research and conservation efforts, not just in North America, but around the world. There are still many countries that lack eBird checklists, and many species have yet to be reported. Read on to find out which ones.



Add Observations!

Welcome!

you can record what you see in nature, meet other nature lovers, and learn about the natural world.

Learn More » Sign Up!













www.nzpcn.org.nz





try flora quiz

LATEST PLANT OBSERVATION

<u>Cordyline australis</u> was seen Flowering at Auckland Botanic Gardens by Bec Stanley on 20/11/2012.

FIND OUT HOW TO RECORD YOUR OWN OBSERVATIONS ...

LATEST NEWS



NETWORK CONFERENCE 2013 - ANNOUNCEMENT

The Network will be holding its next plant conservation conference in Auckland from 23 - 26 May 2013. Read more...

Action on invasive pests in NZ

50 years of rat eradications

1964 - 0.5% of NZ's islands predator-free

 Maria (Ruapuke) Island - £5 grant to the Forest and Bird Protection Society and Don Merton

2014 – 10% of NZ's islands predator-free



Dr Jan Wright
Parliamentary
Commissioner for the
Environment

Unless 1080 is used over larger areas of the mainland, kiwi could vanish from unprotected areas within a generation and native birds could disappear from New Zealand's forests



Plant me instead

Plants to use in place of common and invasive environmental weeds in the lower North Island

JULY 2005



Promoting 'friendly' alternatives to exotic weeds









Home

About Us

Groups

Resource Centre

Community Notices

Add My Group

Contact Us



Welcome

Nature Space is a website for groups, individuals and landowners undertaking ecological restoration in New Zealand. The conservation work carried out by these communities is vital not only for the intrinsic value of our biodiversity, but also for the health and prosperity of New Zealand.

There are hundreds of community restoration groups and individual landowners in New Zealand dedicating time

and affort to ractors our native accountance

You can search for a restoration group using the search field, clicking on the map, or by selecting 'view all groups' on this page.

Register your New Zealand restoration group (or yourself if you are an individual landowner) by clicking on the Add My Group tab and adding information about who you are, and what you are doing. You can include news items, documents, images and

Group Search

Search

view all groups >

Group Map



Group Data

577,230 plants in the ground

2,702 possums killed

026

GROUP DATA

1,415,918 plants in the ground

16,578 possums killed

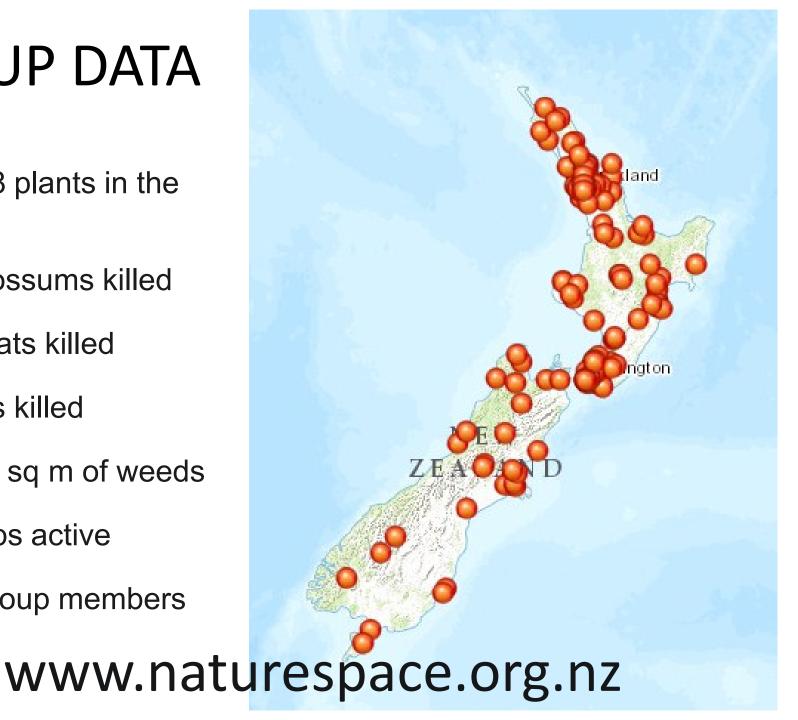
3,984 stoats killed

4,923 rats killed

28 million sq m of weeds

240 groups active

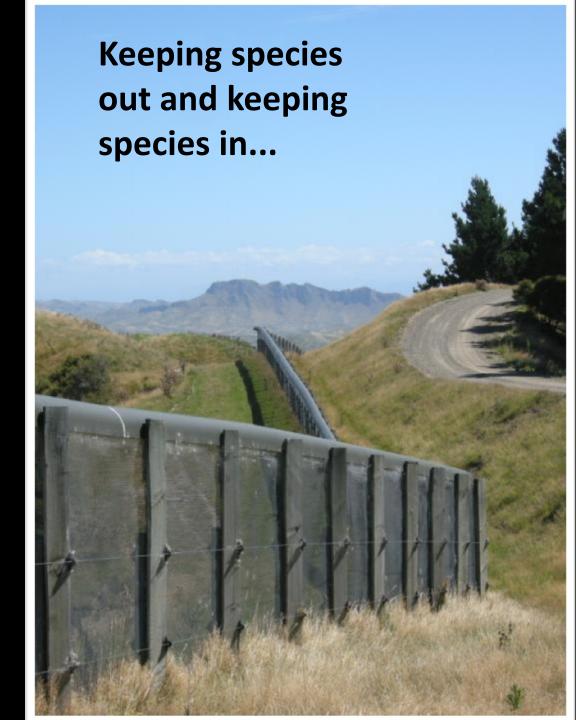
28,433 group members



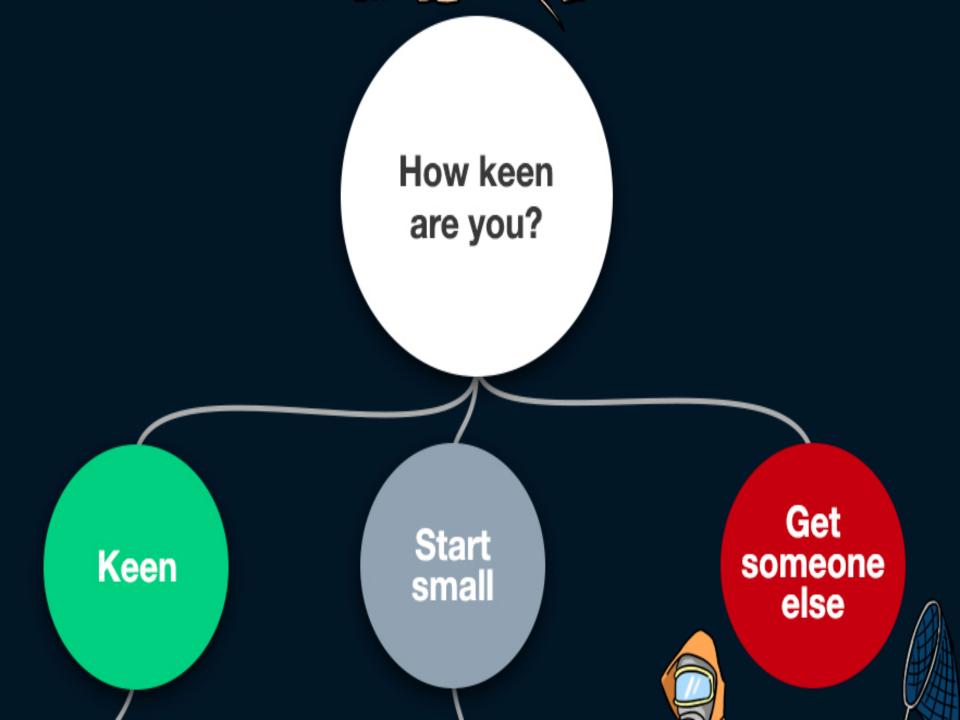
Biodiversity fences

Exclude animal pests (rats, possum, stoats, cats etc

To provide sanctuaries for endangered biota









Cats to go



Home

Why not to have a cat

Your cat is not innocent

NZ Without cats

The SPCA catastrophe

Report a wandering cat

That little ball of fluff you own is a natural born killer

Every year cats in New Zealand destroy our native wildlife. The fact is that cats have to go if we really care about our environment.

Take a look at where colonies of roaming cats are located in New Zealand



Would you make this cat your last to help save NZ's wildlife? of Kiwi's said they would Data sourced from Campbell Live and Catstogo surveys **80%** of people surveyed DO NOT

Home The Plan The Pests Threatened Species Resources About Us



Kea. Photo: Herb Christophers

To protect our endangered native species by eliminating the threat of predators.



Role of the National Biodiversity Network



Mission:

We are an ever-growing network of individuals and organisations, recording and caring for the UK's wildlife data and making it universally accessible to everyone



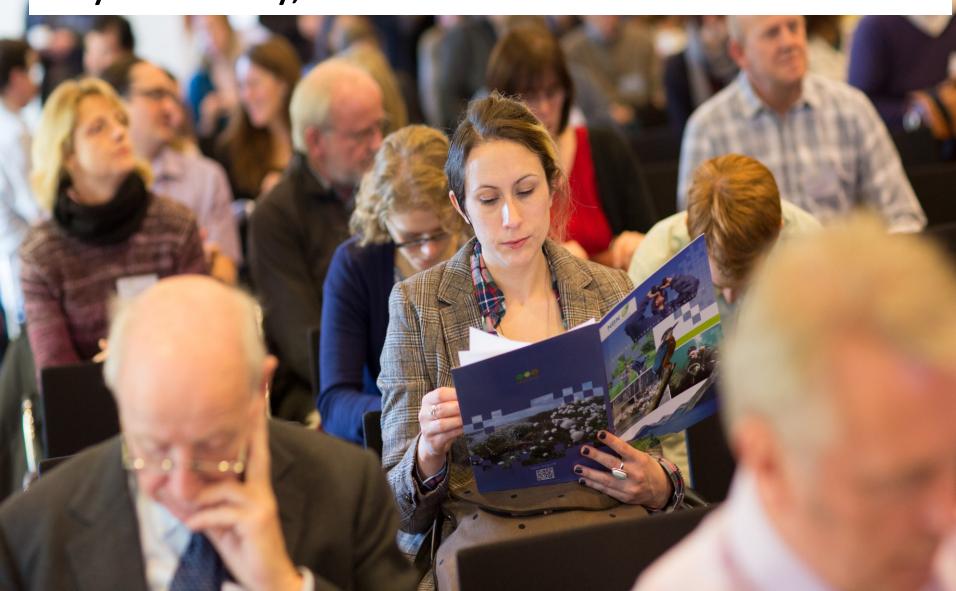
Sharing information about wildlife

101 million records (and counting)
827 species datasets
Hub for 150+ wildlife organisations
A family of people and projects
100 NBN members – close to 6 million people

Role of NBN?

- Central, national view of pest status
 - document changes over time
 - connectivity to existing resources
 - risk assessments, status and priorities (UKSI)
 - mobilise more open data
 - promote greater activity on priority species and sites
- Enhanced information
 - faster data flow
 - more complete coverage
 - set minimum standards for data publishing
 - natural language generation to motivate and inform

NBN conference: Friday 21 November Royal Society, London



Final invasive thoughts

- What would we do if we were starting from scratch?
- Invasives cause irreversible loss, change can be fast
- Vital to raise awareness and make people care
- Data flow and data access are important:
 - Improve time to market
 - Complete and open
 - Show progress, regular reporting of change

Final invasive thoughts

- Less about the data but what you do with it
- Less about the threat but whether anything can be done
- Prevention is best, fast response essential
- UK needs to take biosecurity seriously
 - National AND Regional biosecurity borders
 - Need for UK Biosecurity Act?
- NBN can support capture, curation reporting, and promoting invasive species information

Final invasive thoughts

- Empowering "Citizen-action" can make a huge difference (but community cannot do it all):
 - Nature Space UK
 - Pest Free UK
 - Connecting GB non-native projects to more detailed action planning and reporting
 - iSpot as the basis for learning about pests
- Supportive legislation helps but big goals make for bigger outcomes
- Invasive species is about action not atlases!