

What species are present?

Essential information for management Mice can be undetectable in presence of rats







I know mice are there, has anything else turned up?

e.g. Tawharanui

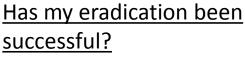
Possibly future for all of NZ

Predator Free NZ



RODENT SURVEILLANCE - WHY?





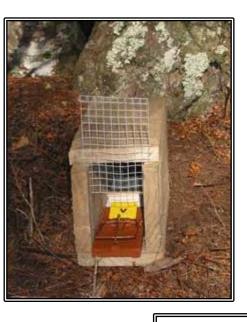
Post eradication monitoring or wait 2 years and see?



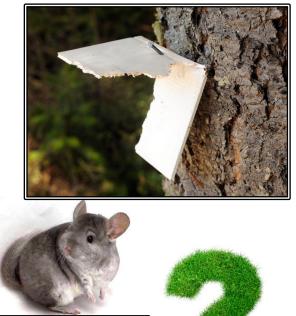
Food industry

Rat in jar of marmite = national catastrophe

Can ecologists learn from other industries?



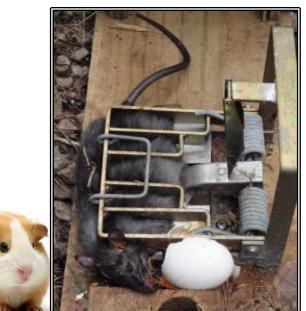




RODENT SURVEILLANCE - HOW?

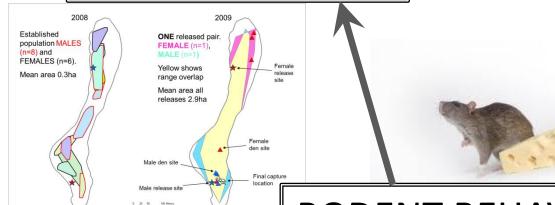


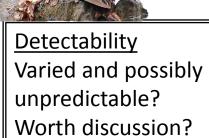




Invasion behaviour
Broadly similar in three main species

All eventually range widely





RODENT BEHAVIOUR

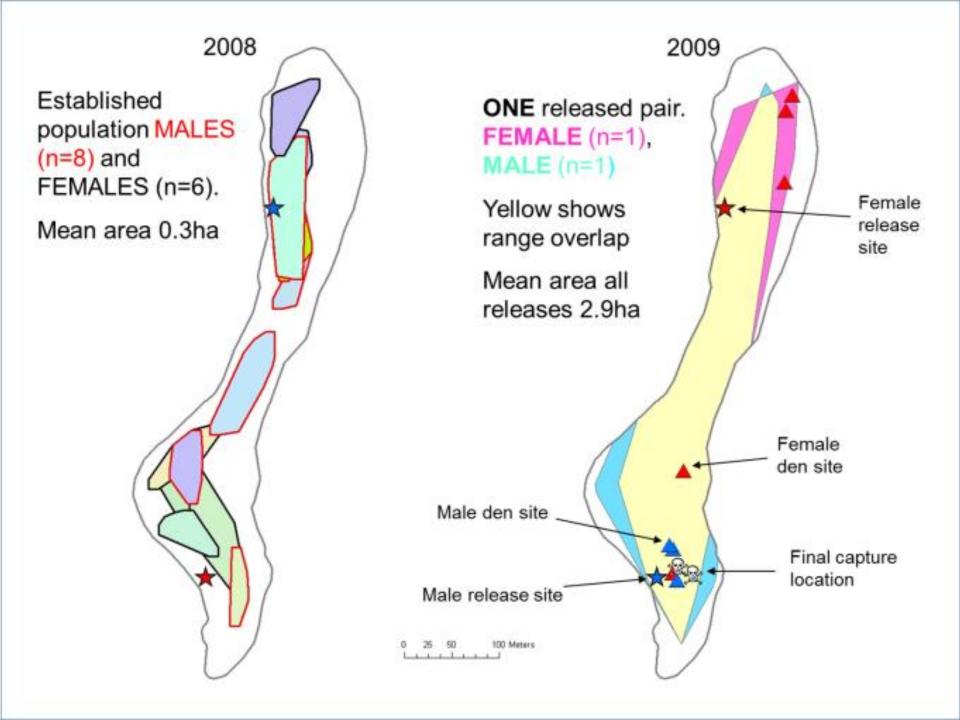


Survivor behaviour Crucial for eradications Is it different to invasion behaviour? Induced neophobia?



<u>Lures</u>

What works? Sex? Food? Combination? Does this change with density? Age? Gender?



Pest free islands

Permanent monitoring needed Detection device with incursion alarm? Smart tools that recognise species and respond accordingly?

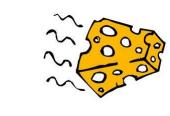
Predator-free New Zealand

Mice not specifically targeted How to detect other species when mouse numbers high?



RODENT SURVEILLANCE – WHERE TO NEXT?







Long-life lures
Important for
surveillance devices in
pest free areas



Behaviour

Invasion well studied, what about eradication survivors? Are current surveillance tools behaviourally robust?