Takahē Sanctuary Sites

Maximising the value of the takahē metapopulation – how 17 Sanctuary Sites are underpinning the recovery of takahē in the wild.









TAKAHĒ MANAGEMENT TEAM

- Share same upper management as kākāpō (Ops Manager/scientist)
- > 6.5 fulltime equivalent takahē staff
- Takahē are a taonga species of Ngāi Tahu and decisions are made together
- Fulton Hogan has been sponsor of the programme since 2016



RECOVERY GOALS

- > Restoration of wild takahē populations within their historic range.
- Creating sustainable recovery, both in terms of natural population stability and energy/resource requirements
- > Building awareness of the species and their contribution to functioning grassland ecosystems
- Entire Recovery Programme is designed to enable safe and robust testing of available systems, tools, and processes.
- I.e., finding that 'goldilocks zone' where quality takahē habitat overlaps areas where pests can be managed below set thresholds.



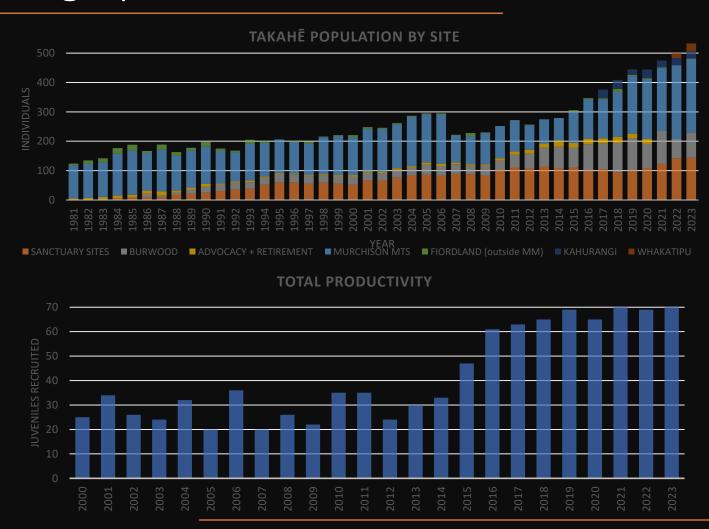
WHERE ARE ALL THE TAKAHĒ?

- Three 'Recovery Sites'
 - Murchison Mountains site of rediscovery and largest population (~250)
 - Kahurangi (Gouland Downs)
 - Whakatipu (Greenstone Valley)
- Seventeen Sanctuary Sites (metapopulation)
 - Insurance (genetic bank and ~40 breeding pairs)
 - Productive 20+ birds growth p.a. for wild release
 - Advocacy
- Burwood Takahē Centre
 - Largest managed population (~100)
 - Intensive nest and pair management
 - Genetic bank
 - Training for the wild



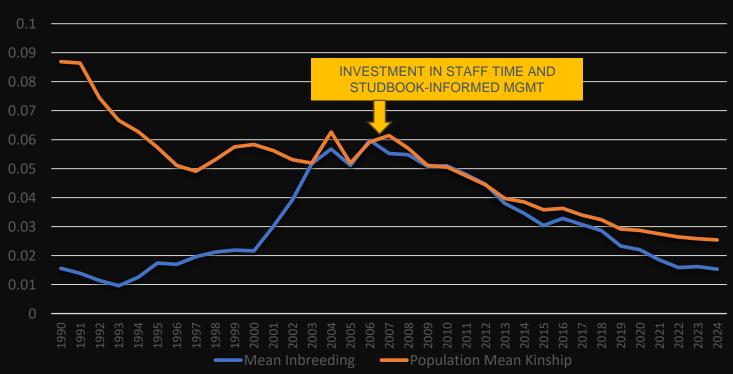


Demographic Performance



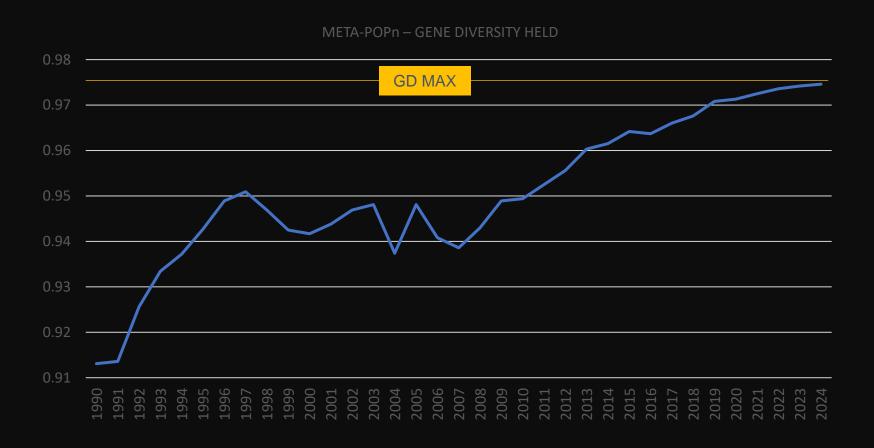
Genetic Performance





- Reliance on ZIMs Studbook, PMx informed transfers and pair/nest management
- Five-yearly review of population and genetic health targets undertaken by CPSG

Genetic Performance



TAKAHĒ MOVEMENTS

~70 – 80 transfers per year



PRIORITIES:

- ✓ >40 to the wild (new and existing sites) all via Burwood
- ✓ Genetic management (maintain 65 highest value pairings at Sanctuaries)
- ✓ Maximise site performance (carrying capacity and sex ratios)

TAKAHĒ SANCTUARY SITES History and role

 First sites established in early 1980's (Maud, Kapiti, Tiritiri Matangi, Islands

After 2011 review and genetic + population modelling, saw opportunity to increase size of sanctuary population (current target 65 pair spaces across 17 sites).

Managed as a metapopulation, with all genetic diversity well represented.

 Annual growth exceeding 20 takahē – contributing to the growth of wild populations.

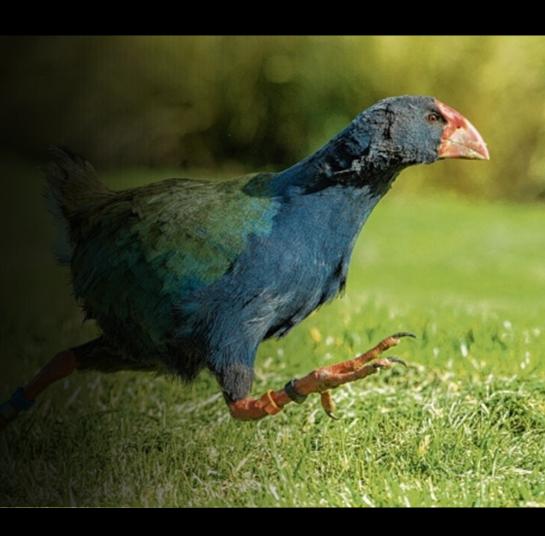
Critical role in takahē advocacy



CHALLENGES

Building a sustainable future for takahē

- Sanctuary meta-population requires ongoing intensive management (e.g tussock training)
- Sanctuary Sites reforestation closing out takahē habitat.
- > Financial challenges faced by Sanctuary Sites
- > Need to solve the bottleneck at Burwood
- > Pest control compatibility is our biggest barrier
- Critical that we continue to:
 - test sites seeking a more suitable combination of ecological dynamics
 - Work with others to develop effective pest control tools
- > Impact of climate change?
- > Impact of disease?





Thank you!









