Nest site limitation in the Puaiohi (*Myadestes palmeri*): Using nest boxes to expand the range and improve nest success of an endangered species







Barbara Heindl¹, Lisa Crampton¹, Eric Vanderwerf²

¹Kaua'i Forest Bird Recovery Project, Hanapepe, HI ²Pacific Rim Conservation, Honolulu HI, USA













Puaiohi (Small Kaua'i Thrush)

- Kaua'i Endemic
- Endangered
- Population Estimate
 - ~500 individuals
- Current Habitat
 - Streams in high elevation rain forests
- Nest Substrate
 - Cliff walls along streams
- Frugivorous



Nesting specialist

 Nest along deeply incised stream corridors, mainly on recessed ledges on cliffs

Use other substrate types

occasionally, but rarely







Threats

Habitat loss and destruction

Non-native plants/ animals

Introduced diseases- range contraction

Introduced Predators- Rats, Cats

→ Safe nest site limitation?





History- 2002

- Telfer boxes:
- 33 put up along 2 different streams in 2002
- Used a flower pot and mounted to trees/ cliff walls
- One nest box used once and was successful
- Not tested for rat resistance





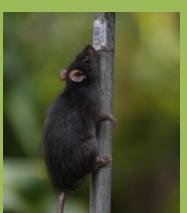
2011 – Year of the Nestbox

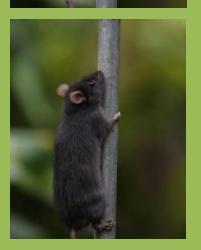
- Sign of use/ investigation in 5 boxes
- Two monitored nests in boxes











Rats - Crafty











2 new roof and 3 base designs

Metal stop plates and mesh



2012 breeding season

- 32 boxes in Kawaikoi drainage
 - Cluster of 3
- Motion-sensor camera
- Ibuttons
- Checked once a week
- One new box used by a WRTSH



The Future

 Further rat trials/ bird preference trials – Winter
2012

Ibuttons

Nickels/ track plates

 Put up boxes in new locations

- Early 2013

Social attraction



- Numerous KFBRP Staff and Technicians
- Dr. David and Lida Burney & Makawehi Reserve
- Will Pitt, USDA
- Pauline Roberts
- KISC, & Volunteers
- ABC
- Tom Telfer, Al Silva, Tom Savre
- Kaua'i Conservation Alliance

