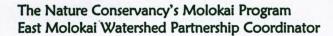
DWS Watershed Grants Program, March 20, 2018





Project Goals: To sustain healthy native forest in fenced units, while enhance or improve native vegetation levels in unfenced units.

## **Project Objectives:**

- 1. Remove all ungulates from fenced units and sustain ungulate free status.
- 2. Control populations of feral ungulates in unfenced units to reduce erosion and increase vegetation cover.
- 3. Continue to reduce priority weed populations from all forest systems through coordinated weed removal sweeps.
- 4. Assist with the detection and response to the introduction of new invasive species.
- 5. Foster partner and community engagement through outreach programs like: Molokai Fire Task Force; Molokai Earth Day planning and event; Mana'e Mauka Working Group; MoMISC, MoPEP, EMoWP etc.
- 6. Document management activities through monitoring and GIS summary mapping.
- 7. Complete annual contract with USGS for the Kawela Stream Gauging Station to measure stream flow and water quality.
- 8. Support research projects like USGS Ridge to Reef Kawela Reseach project that documents vegetation changes, hydrological recharge, and erosion/sedimentation levels in response to EMoWP management strategies.

## Benefits:

- a. Sustaining or improving "intact" native montane forest systems with the potential recovery of listed endangered plant and animal species.
- b. Sustaining or improving watershed capacity by increasing infiltration of rain water into aquifers by sustaining and or increasing vegetation recovery or enhancement.
- c. Reducing erosion (non-point source pollution) and sedimentation onto the adjacent fringing reef.
- d. Reducing sedimentation of the coastal highway which reduces cost of maintaining the highway and also reducing dangerous highway conditions.
- e. Preventing or reducing wildland fires that impact vegetation levels and erosion rates.
- f. Conservation awareness, engagement and collaboration of the local community.
- g. Documentation of conservation successes which may lead to "Best Practices."
- h. Leveraging funds and conservation actions.

## **DWS/OED Funds**

- DWS/OED funds from 2002-12
- DWS funds only 2013-Present, current funding level sine 2016 \$250,000
- FY19 request \$250,000
  - o \$75,000 Personnel/Benefits
  - o \$142,391 Management, Helicopter and USGS Kawela Stream Gauge Contracts
  - \$32,609 Overhead (15% allowed by County of Maui)

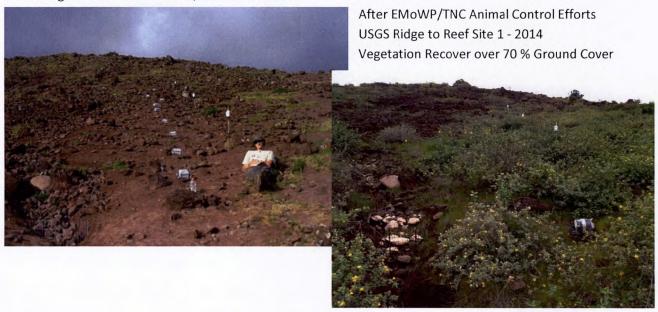
DWS annually leverages over \$400,000 in State and Private funds.

Attachments: USGS Veg Recovery Pics; State DOT Overtime Graph; EMoWP Land and Sea Scape View

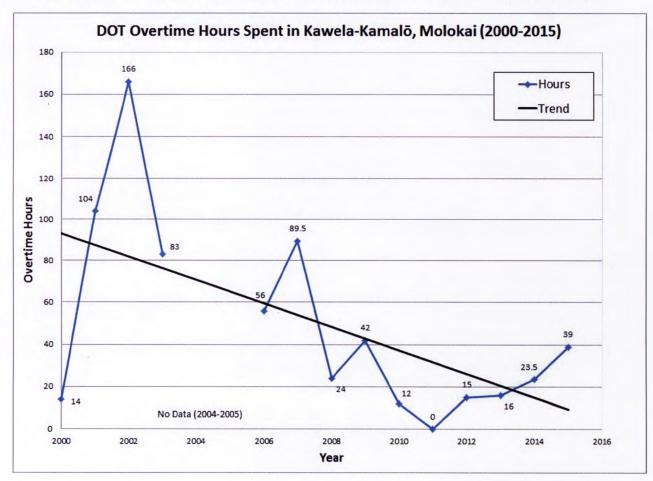
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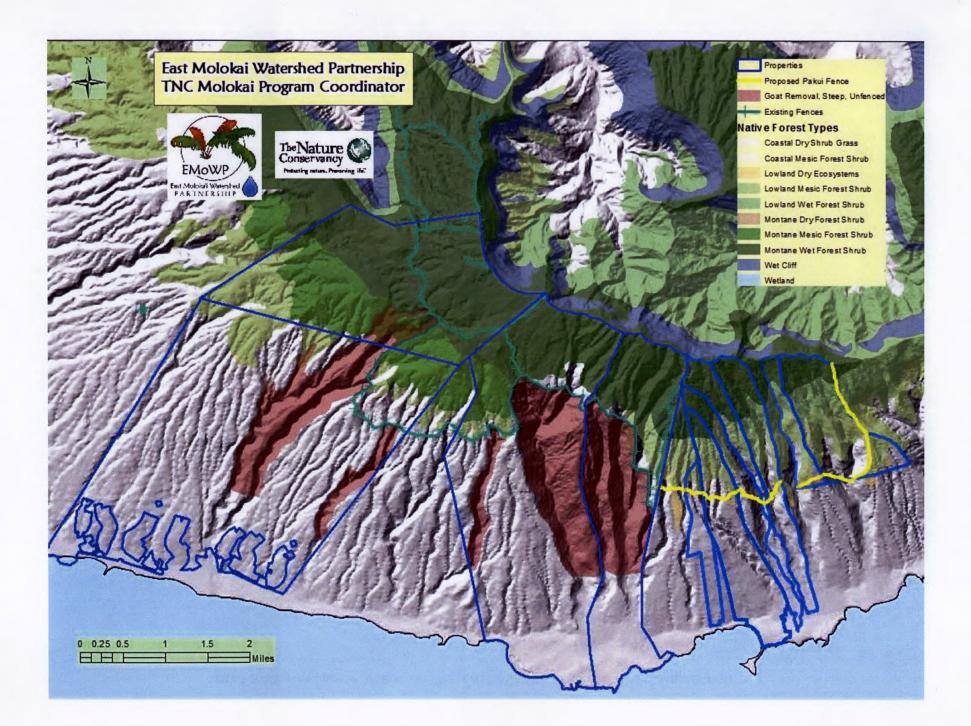
Ed Misaki

USGS Ridge to Reef Site 1 -- 2007, 1% Ground Cover



Public Safety and Economic Benefits – DOT Overtime keeping roads safe after winter storm event.





Land and Sea Scape View of the East Molokai Watershed Parternship Fringing Reef System – Longest, Continuous in Hawaii and the US Recovering Denuded middle zone **Intact Upper Native Forests Systems**