

# 2011 ACTION PLAN

- What kind of Hawaii i do we want to leave to our children?
- It takes a community/island to eradicate a weed/pest: building bridges and opening eyes and ears across the island
- Cost of inaction: extinction



from left to right  
Kauai O'O Extinct, Kauai Akialoa Extinct, O'u Extinct,  
Kauai Nukupu'u Extinct, Puaiohi less than 200 remain, Kamao Extinct



# MISSION



- **Current Mission:** to prevent new invasive pest infestations on the island of Hawaii, to stop newly established pests from spreading and to provide local control of established pest species
- **2011 New Mission** to include:
  - 1) focus on preventing further extinctions
  - 2) research and monitoring
  - 3) Interactive biome approach (terrestrial, freshwater and marine not independent)



# 2011 Annual Plan

**Operations:** ensure that the organizational infrastructure of BIISC is effective, responsible and adaptable

- Build and maintain an effective workplace
- Strengthen the BIISC network and partnerships
- Strengthen the BIISC Committee
- Expand the budget
- Establish management reporting systems
- Optimize compliance and procedures
- Monitoring





# 2011 Annual Plan

- **Conservation:** build partnerships to strengthen conservation efforts and make best use of limited resources
- Hierarchy of established pest and rapid response targets (priority setting)
  - Integrate species based and area based strategies at the island scale
  - Further the science of invasive species management
  - Develop new and innovative tools to increase effectiveness and decrease collateral damages (spatial decision support tools)

# 2011 Established Pest Targets

- Most established pests are beyond the scope and resources available to BIISC, however we will build opportunistic partnerships, inform legislature and work to improve outreach for some.
  - Include: albizia, gorse, strawberry guava, fire weed, feral cats, mongoose, rats...

# 2011 Established Pest Targets

- **Poisons Devils Pepper** – containment with intent to eradicate from North Kohala
  - Strengthen partnership to include restoration of landscape following eradication
  - Collaborate research to find safest and most effective treatment methods
  - In 2011-2012: Containment to core (1,000 acres)
  - In 2013-2015: Eradicate
  - 2015 onward
    - restoration & monitoring

# 2011 Established Pest Targets

- **Coqui** – focus on coqui control around critical habitat for T/E species and build capacity at the community scale (2010-2011)
  - Volcano – work with Coquistadors
  - Kohala – work with Waimea Community Association and Hawi control group
  - UH – work with UH staff and students to further state of knowledge
  - Prevent coqui infestation from spread to high value conservation lands
  - Increase public awareness and ability to “treat it yourself”

# 2011 Established Pest Targets

- **Miconia** – contain Miconia to current range whilst biocontrol is established
  - High elevations – prevent from spreading upwards to native forests
  - Northern limits – prevent from spreading to the Kohala Mountains
  - Leeward – work to contain populations on leeward/dry side
  - Increase public awareness and ability to “treat it yourself”

# 2011 Established Pest Targets

- **Bocconia** (Plume Poppy) - exclusion of populations from high conservation value lands in Ka'u
  - Work towards exclusion Manuka, Honomalino and Ka'u Forest Reserve.
  - Strengthen regional partnerships

# 2011 Established Pest Targets

- **Cryptostegia** (Rubber vine) – containment and possible eradication from Ka'u region
  - Complete regional surveys and complete island inventory
  - Develop containment goals
  - Strengthen regional partnership

# 2011 Established Pest Targets

- **Buddleja** (Smoke bush) - containment and eradication from Volcano region, Hamakua and Waimea.
  - 2011: Waimea/Volcano
  - 2012: Volcano/Hamakua
  - 2013+ Monitor

# 2011 Established Pest Targets

- **Cortaderia** (Pampas grass) – monitor and control target in Waimea and Kona
  - Monitor controlled sites
  - Survey for new populations/sites
  - Incorporate outreach component in communities

# 2011 Established Pest Targets

- **Rhizophora** (Red mangrove) – eradication target for this Island of Hawai'i, outreach to coastal communities and monitoring of species recovery
  - 2010: begin non invasive (manual) removal in Alula Bay with Malama O Puna
  - 2011: manual removal of Windward treated sites (dead wood) and monitoring of efficacy
  - 2012+ monitoring, outreach and treatment of remaining populations

# 2011 Established Pest Targets

- **Rosa** (Cherokee Rose) – eradicate from Volcano and Hamakua
  - Continue surveys
  - Containment and eradication
- **Little Fire Ants** – support HDOA efforts to control and focus efforts on outreach

# Early Detection Surveys

- 2010 – Major transportation corridors (Complete **FIRST** lap of island)
- 2011 – Complete all major and secondary roads
- 2012 – Complete all major subdivisions
- 2013 – Complete remaining subdivisions, roads and major trails
- 2014 – monitoring and resurvey major transportation corridors

# Rapid Response Targets

- 2010: Develop state wide systematic selection criteria together with neighboring island ISC's
- 2011: Develop and implement an island wide rapid response criteria and list of priority species for 1) containment, 2) eradication and 3) exclusion.
- 2012 +: Refine list and more knowledge and information become available

# Recovery Target



- **Hawaiian Coot** (**Endangered**) – build an agency and community based partnership to increase juvenile survivorship by excluding target invasive species from breeding grounds
  - Lokoaka Fish Pond – establish partnership with land owners and agencies
  - Scoping exercise to establish methods, protocol and measures of success
  - 2010: populations surveys/research
  - 2011: implement control program
  - 2012+ exclusion zones, monitoring

# Area targets



- **Protected Area: Wao Kele O Puna**
  - 2010: treat remaining Miconia and Albizia, build partnership with surrounding communities
  - 2011: monitor Miconia and Albizia, outreach, ED survey of access roads
    - work with manager to develop a comprehensive weed management plan
    - Regional weed surveys

# Area targets



- **Eyes and Ears Networks (Outreach)**
  - 2010 **Volcano** and **Waimea**
  - 2011 **Laupahoehoe**, **Naalehu** and **Kona**
    - 2012+ build a representative network of concerned communities to build local capacity to treat regional problem species with BIISC support.

# Thematic Targets



- **Freshwater**: explore issues and build partnerships where recovery of T/E species possible
  - “No river left behind”: taking the “fresh” out of water
- **Marine**: explore issues and build partnerships, feasibility analysis
  - Roi Roundup (2011?)
  - Fisherman eyes and ears network?
- **Sustainability**: incorporate invasive species and weed management into sustainability dialogue.