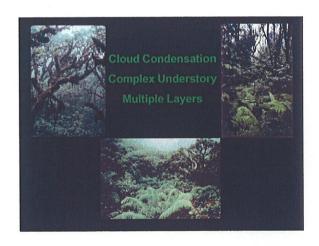
### APPENDIX K

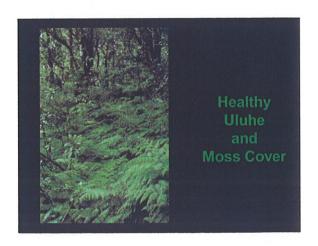
## Presentation Made at Public Fence Meeting 04/11/2000



Introduction
Watersheds & Water
Advisory Committee Priorities
Lanai Species
Protective Measures
Peer Review Committee Advice
Deer & Deer Damage

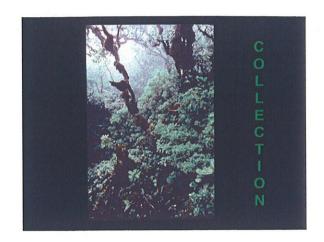
Cloud Forest

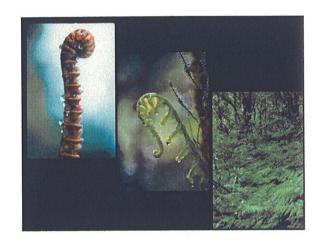




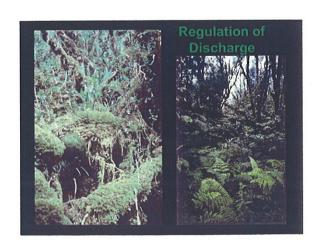


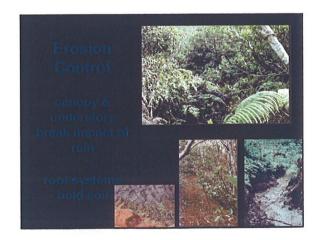






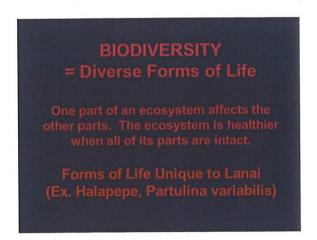






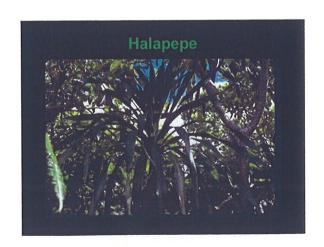


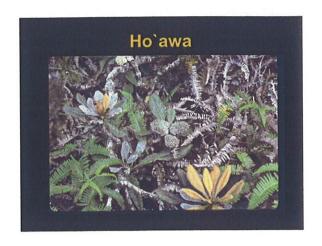










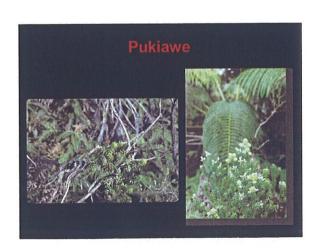






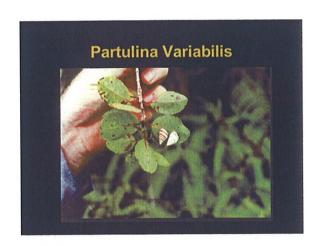










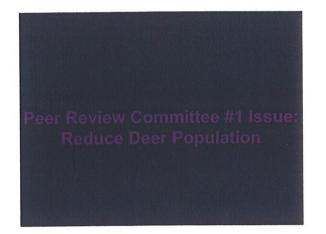


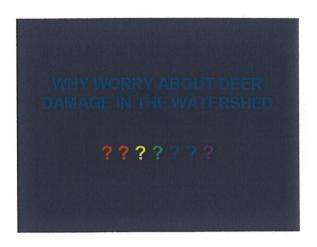


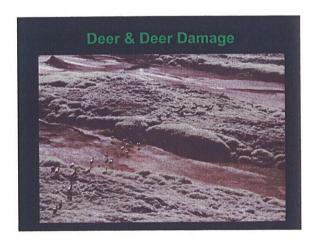
## WORKING GROUP PRIORITIES Protect Watershed Protect Native Ecosystems Consistent with Community Values

### **Protective Measures**

- Control deer, sheep and rodents
- Control invasive plant species
- Prevent introduction of invasive plant and animal species (including insects)
- · Provide fire protection
- · Selective re-planting
- Collection, storage and maintenance of plant genetic material
- Protection from human disturbance
- Monitoring
- Public Education













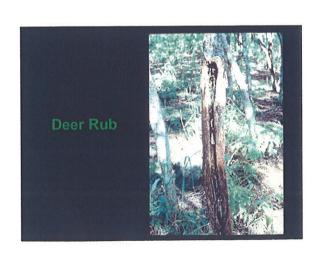
































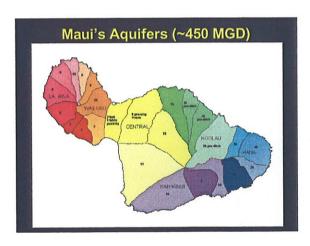




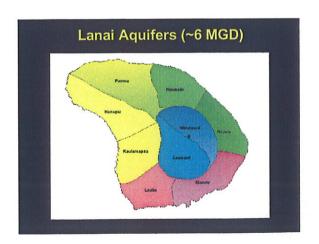












### Control of Deer and Sheep

- hunting or other removal
- catch and transport
- · fencing and other obstruction
- repellants, sterilizers
- · habitat alteration
- introduced predators

### Why Select Fencing?

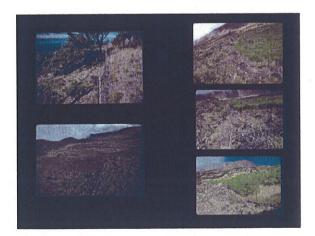
- Capture & Transport very expensive, may not be places to send the deer, deer may die in transport
- Sterilization or reproductive intervention administered either by darting or orally with bait. Vaccines still under development. Must be approved by FDA because deer is seen as "food animal", darting vaccine needs to be repeated annually, difficulty getting all deer reliably..OR, if animals are captured and surgically altered..difficulty getting all deer, very expensive may not help situation in time to save watershed.

### Why Select Fencing? (continued)

- Repellants garlic oil, putrid egg solids, predator odor oils, sulphated cod liver oil have been tried. Putrid egg solids had some success in reducing browsing. But no information on how this impacts plants, insects, birds, pollination cycles, etc. Also will not address population problem.
- Habitat Alteration planting desirable forage plants outside watershed, providing water outside watershed, surrounding watershed with thorny plants, etc. Such measures alone will not control population, may risk introduction of species, provision of water could lead to population increase.

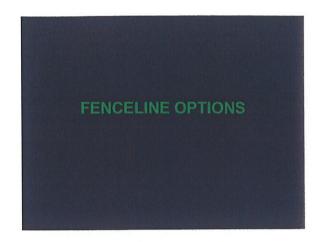
### Why Select Fencing? (continued)

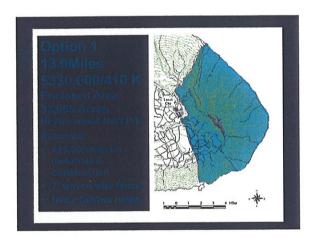
- Physical Barriers fence, canal, cattle guard, etc. can help keep deer out of desired exclosure or in desired area - not foolproof, but good in concert with other control measures.
- Hunting animals may be able to be eradicated with one huge hunt, or numbers managed with on-going hunting. However steep grades, access problems and other issues mean that if this measure is used it would be more successful concert with other measures, and with some ongoing management
- Release of Predators introduction of new species poses multiple risks to already threatened watershed.



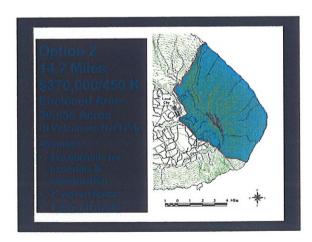




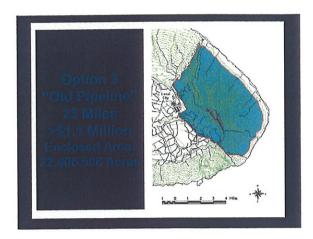




# Option 1 • ADVANTAGES - Protects large area - Maintenance & monitoring easier near road - Per mile costs lower - Protects secondary recharge area (windward below cloud forest) as well as upper reaches - Requires tie-off in the ocean • DISADVANTAGES - Prone to vandalism - More fence to maintain - Needs more coordination to mitigate hunter impacts



## Option 2 • ADVANTAGES — Protects large area — Maintenance & monitoring easier near road — Per mile costs lower — Protects secondary recharge area (windward below cloud forest) as well as upper reaches — Second fence could be added in future to create different control level exclosures — Requires Tie-off in the ocean • DISADVANTAGES — Prone to vandalism — More fence to maintain — Needs more coordination to mitigate hunter impacts



## • ADVANTAGES

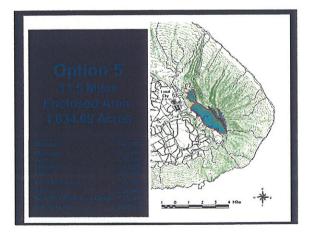
### DISADVANTAGES

- Most expensive option
- Prone to vandalism
- More fence to maintain old pipeline route is not road - not efficient use of fence
- Needs more coordination to mitigate hunter



### Option 4

- DISADVANTAGES
  - More difficult terrain for maintenance &
  - May be more expensive to repair



### Option 5

- DISADVANTAGES
  - Leaves out portion of most critical recharge
  - monitoring
  - May be more expensive to repair

