Aquatic Invasive Species in Hawai`i





Brian Neilson Aquatic Biologist

Dept. of Land and Natural Resources Hawaii Division of Aquatic Resources



Marine







Anchialine Pools



Streams, Rivers, and Lakes



Established Aquatic Invasive Species

- **Fish**: 20 marine species,41 freshwater
- Invertebrates: > 200 species
- Aquatic Plants: 28 species
- Seaweed (Algae): 14 species
 TOTAL= 300+



Why should we be concerned?

- Economic
- Ecosystem Health
- Resilience
- Food Security
- Social and Cultural



How Do Introduced Species Get Here?

www.allfishes.ne

- Intentional Introductions
- Shipping
- Aquaculture escape

Aquanum release

• Live bait

Aquatic Invasive Species Program DLNR-DAR

GOAL: Minimize Adverse Impacts from Aquatic Invasive Species

Prevention

Rapid Response

Management and Control

Super Sucker and Sea Urchin Hatchery

Progress:100 acres of reef cleared

Produced and outplanted over 280,000 urchins









Hull Fouling and In-Water Cleaning

- **Biofouling Study:** 78% of introduced aquatic species
- In-water cleaning Study: In progress



Ballast Water

• Ballast water rule amendment



Program Needs

- Ballast water administrative rule amendment
- Biofouling rule
- In-Water Cleaning policy development
- Long-term capacity for coordinator
- Cost-recovery program





Program Needs

- Continued Support for HISC and DLNR-DAR Aquatic Invasive Species Program
- Increased capacity for work on outer islands
- Support of Policy

 Regulating sale and distribution of invasive species



