# COMMUNITY BASED PARTICIPATION AND PROCESS

Sara Peck, UH SeaGrant College Program Coastal Resources Extension Agent

August 27, 2008

Coral Reef Task Force Special Session Managed Areas



What Does It Take To Change a Resource Management Paradigm?

# More Than a Village

#### University of Hawaii Sea Grant College Program

#### **GOAL**

To raise the knowledge and understanding of how land and ocean uses impact all of the island's natural resources including land flora and fauna and marine and coastal ecosystems.



#### Link Mauka to Makai Coastal and Ocean Literacy

NOAA and Sea Grant National/Hawaii Initiatives

#### Engage the Public in Outreach/Education

- Partners NGOs, Agencies, Policy Makers
- Interest Groups
- Communities
- Free Public Education Presentations
- Volunteer Programs
- Invited Presentation
- Major Community Events



#### **ENGAGE**

Youth
School Groups
Scouts

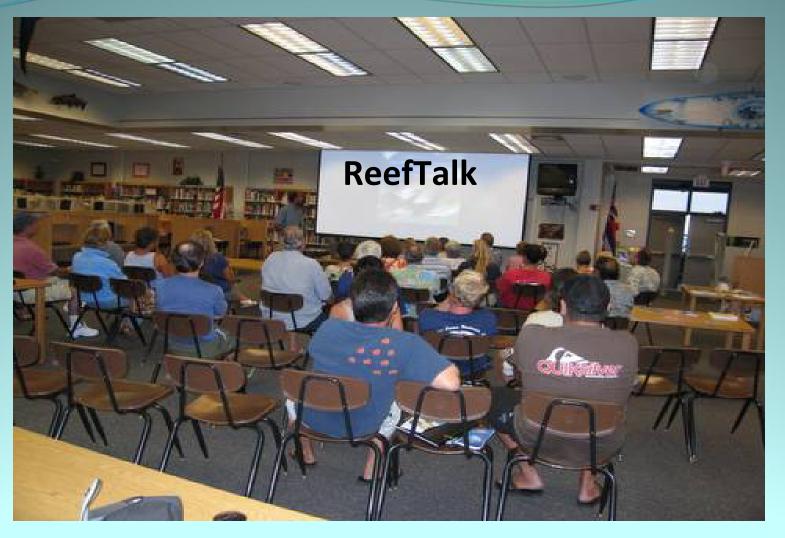
**Adults** 

Interest Groups Communities Businesses

**COLLABORATE** 



#### ReefTalks Est. 1994



11/yr, 25-120 attend per talk
Taped & Edited - Public TV 4,000x6= 24,000/Talk

#### Alien: Gracilaria salicornia



Found on 3 islands

Reproduction: vegetative

Fish don't prefer to eat it

Moderate response to nitrogen

Once established—very competitive-3-d growth form, not space limited

Pristine reefs may be at risk

Very abundant in some areas—

most dominant species in

Waikiki & south Kane'ohe Bay

Out-competes native species

Overgrows coral

Eradication???

THE SHOCKING
FACT IS WE HAVE
75 TO 80% FEWER
FISH THAN WE DID
100 YEARS AGO!

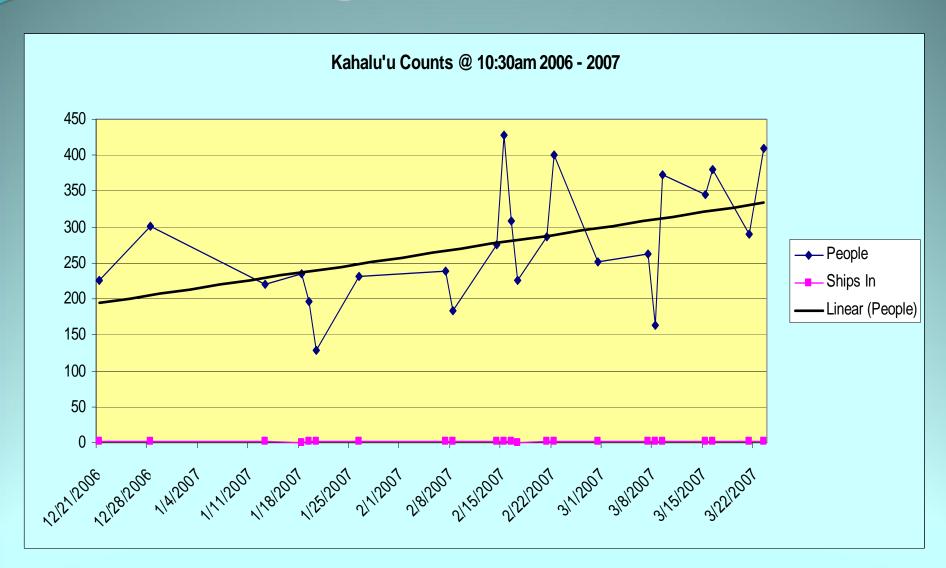


1900

2001

Figure 13-The stocks of Hawaiian coral reef fish in the MHI are at most 20 to 25% of what they were 100 years ago.

#### Human Use @ Kahalu'u Beach Park



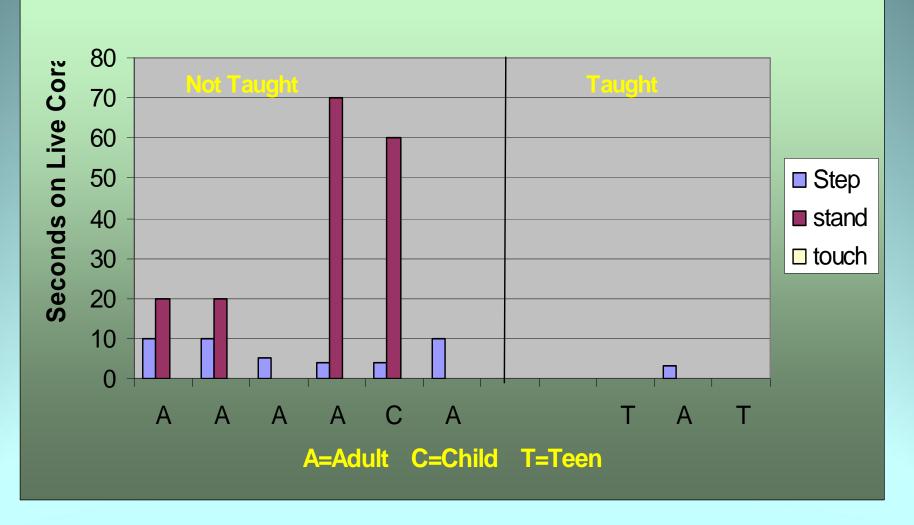


ReefTeachers at Kahalu'u

Est. 2000

Sea Grant & Kolaha Center Partnered to Expand the Reef Teacher Program 2007.

#### ReefTeacher Effectiveness Not Taught vs Taught April 07



#### ReefWatcher Program

- Identify data needs
- Community members are trained to develop and carry out survey protocols to meet those needs
- Provide ongoing education opportunities

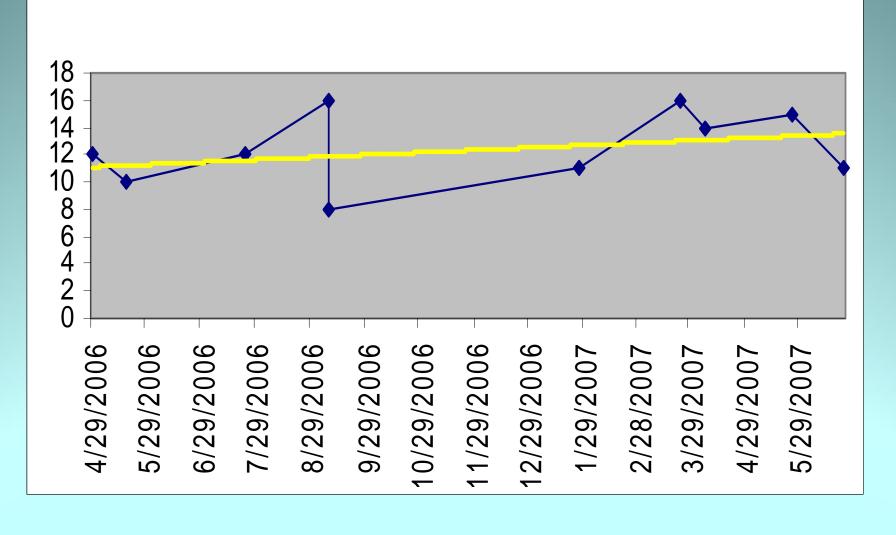


#### HUMAN IMPACT SURVEY RESULTS

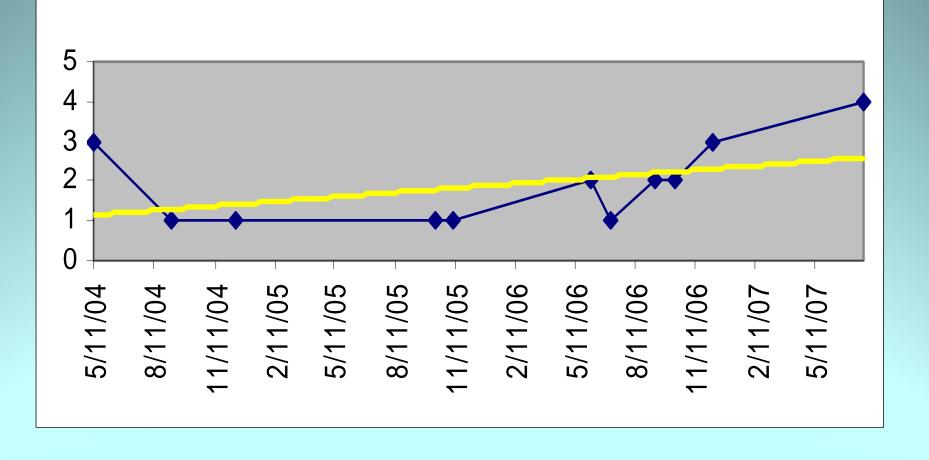
- Human Impact on Substrate SCUBA
  - Impacts per diver = 3.1 (233 divers observed)
  - Impact categories and location use analyzed
  - Ecological briefings rated



## Yellow Tang Population Observed by Barbara Kuehner at Kailua Bay (Swim Lane)



# Orangespine Surgeon Population Observed by George Wilson at 4 Mile



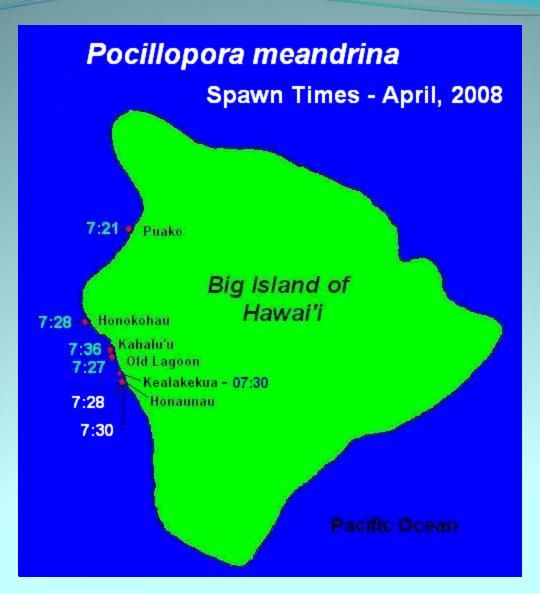
# High School Students Urchin Surveys

- Contribute to the existing database
- Learn why we use databases
- Learn scientific methods
- Manage marine resources



#### **Coral Spawning Events 2008**





ReefWatcher
Spawning
Observed

April May June



#### Family Event = 8th Annual Coral Reef Awareness Day



## Aloha Kai Teens Teach Elementary Students to Understand the Importance of Our Ocean





#### What Conditions Produce Action?

Attract
Broad Community and
Influence Political Will

West Hawai`i Regional Fisheries Management Area

West Hawaii Today, Thursday, July 21, 1988 There's not much left at Mahukona

> Tropical fish collecting Must be banned now

Fish Coalition threatens collectors with total ban

The onus is on fish collectors to Police themselves - or else...

Limits being set

Divers, collectors at odds over

Decline in K CONFLICT!!

Fishes disappearing around pier

The war isn't over

ow developing awaii fishery

Management area

Collectors, fishermen At odds over harvest

Work begins on aquarium fish collection ban

...Fishing restrictions still to be decided

"EXTINCTION-YEAR 2000"

Study finds fewer fish at collection sites

#### Dead Aquarium Fish in Dumpster



#### **The Lost Fish Coalition**

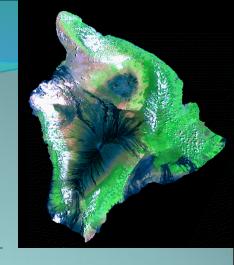


Within 6 Months Over 4,0000 Signatures to BAN Aquarium Fish Collection

#### Act 306 (1998)

## **Established the West Hawaii Fishery Management Area**





- Establish No Aquarium Fish Collecting Areas <30%</p>
- Establish No Gill Netting Areas
- Establish a Mooring Buoy System
- Establish No Take Areas

Ensure substantial <u>involvement of the community</u> in resource management decisions



April 28, 1999 Kailua-Kona

The Last Piece in the Puzzle!
Enforcement to Protect Our Reef Fish!
Come to the

### Public Hearing

to Support the Enforcement Package for Our Fish Replenishment Areas!

At the big hearing we had in 1998, the package of enforcement measures got left out of the rules. Now we can put them back in! Come to the public hearing and strengthen the FRAs by ensuring enforcement. Support the amendments to Ch. 13-60.3!

Thursday, Dec. 9, 2004 6:00 PM Kealakehe High School Cafeteria

(mauka of Honokohau Harbor)

For more information, go to www.lostfishcoalition.org

# Missed the Public Hearing? You Can Still Support Us!

The DLNR Will Accept Public Testimony Until Dec. 24! You will help the reefs by writing testimony in support of:

All the enforcement measures and amendments to be added to Ch. 13-60.3,

Adjusting the seaward boundaries of all protected areas so they are uniform (Ch. 13-58), and

Allowing Hawaiian Kupuna access to the Old Kona Airport MLCD for subsistence harvest of wana (Ch. 13-37).

#### **SEND YOUR SIGNED AND DATED TESTIMONY TO:**

Department of Land and Natural Resources
Division of Aquatic Resources
1151 Punchbowl St., Rm. 330
Honolulu, HI 96813

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OR FAX TO: 808-587-0115

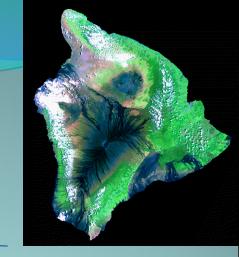
Mail Early to Avoid Xmas Rush!

FOR MORE INFORMATION GO TO WWW.LOSTFISHCOALITION.ORG

Act 306 (1998)

**Established the West Hawaii Fishery Management Area** 





HOW WERE WE GOING TO DO THIS?

- Establish No Aquarium Fish Collecting Areas <30%
- Establish No Gill Netting Areas
- Establish a Mooring Buoy System
- Establish No Take Areas

Ensure substantial <u>involvement of the community</u> in resource management decisions

#### UH Sea Grant and DAR Tasks

- Develop PR and Membership Strategy
- Provide a Compiled WHFC Resource Background Manual
- Ensure WHFC has latest Information

- Provide Facilitated Leadership Training
- Dev. Effective Cross-Cultural Method for Conflict Resolution and Decision Making
- EDUCATE everyone with scientific and anecdotal information



**Balanced Interest Groups And Resource Users** 

#### Council Membership



#### Criteria

- Stakeholder
- Geographic
- Ability to work with a group
- Commitment

Teresa Nakama
Glennon Gingo

Glennon Gingo

Matthias Kusch

Lisa Choquette

**Bob Owens** 

Jim Medeiros

Stan Lavine

Richard Prohoroff

Wayne Leslie

Jim Passon

Ed Aupuna

Andrew West

Fred Duerr

William Talley III

Hanna Springer

Dickie Nelson

Rick Gaffney

Mike Nakachi

Doug Robbins

Luna Haniao

Al Escention

Pete Basabe

Tony Nahaky

**Damien Kennison** 

Dave Hoopaugh

Ernest Kanehaieu

Josephine Komoku

David Dart Neil Dart Ted Hardie Junior Kanuha Kalini Forcum St. Joseph Stewart George Paleudis Bob Hajek **Zachary Caldwell** Kalani Forcum Sr. Gill Kahele Jeffrey Lorance Donna Goodale

Doug Herkes
Kai Hoover
Kavika Leicher
Dale Sarver
Mike Henshaw
Nick Craig

Steven Meyer Pau;1 Warren Ernest Kanehailua Mike Nakachi Hannah Springer Dickie Nelson Rick Gaffney Steven Meyer Paul Masterjohn Leonard Torricer Bill Stockley Rob Shallenburger Vern Yamakaka Pedro Padillio

Tina Owens Scott Brien William Rickarts JT Rosario **Duane Erway** John Kellum Charlie Young **Ex-officio:** Dr. Bill Walsh DAR Sara Peck UH Sea Grant Scott Shero-Amba DOCARE Brent Carmen DAR Dan Mersburg DOBOR Justin Viezbekie, NOAA Jan Marsh DAR Laura Livnant DAR

Kater Bourdon UH Sea Grant



### **Decision Making Process Includes**

- 1. Define the issue(s).
- 2. Educate ourselves: gather information.
- 3. Hear all sides: area meetings, identify and invite stakeholders to WHFC meetings.
- 4. Develop consensus.
- 5. Include DOCARE in the conceptual phase and the writing/wording of the recommendation.
- 6. Communicate to all interested persons, circulate the final recommendation..

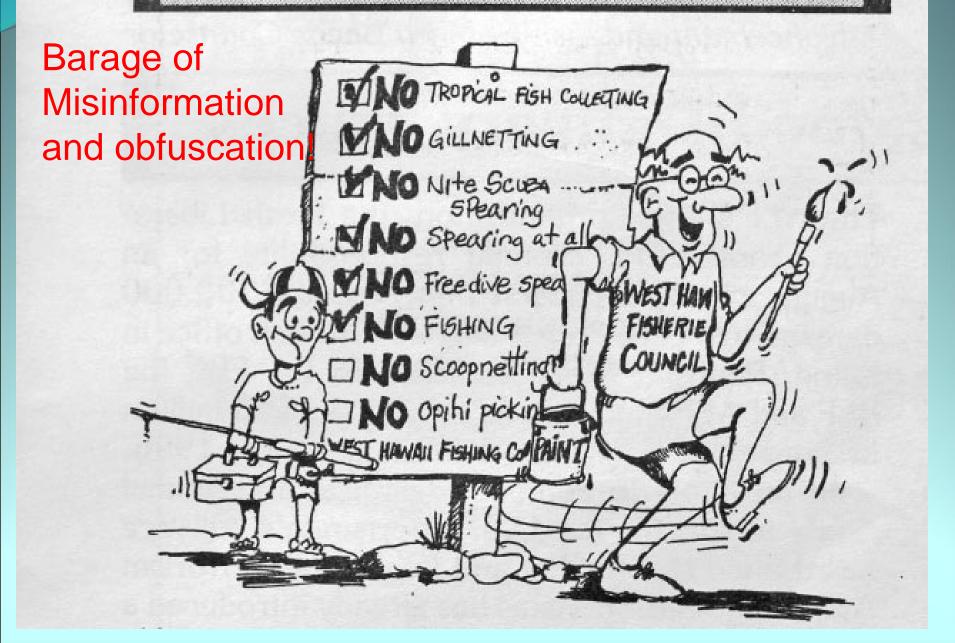
## West Hawaii Fishery Council

### Community Based Marine Resource Management Volunteer Advisory

- FIRST & ONLY Fish Replenishment Areas (FRAs)
- First Gill Net Rule
- First Spearfishing with SCUBA Ban Proposed
- Conflict Resolution
- Working on Limited Entry (AQ Fish Licenses)



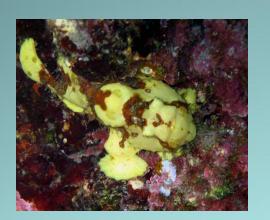
### WHFC-Solution or Problem ...continued



### Smoking Ban at Kahalu'u Beach Park



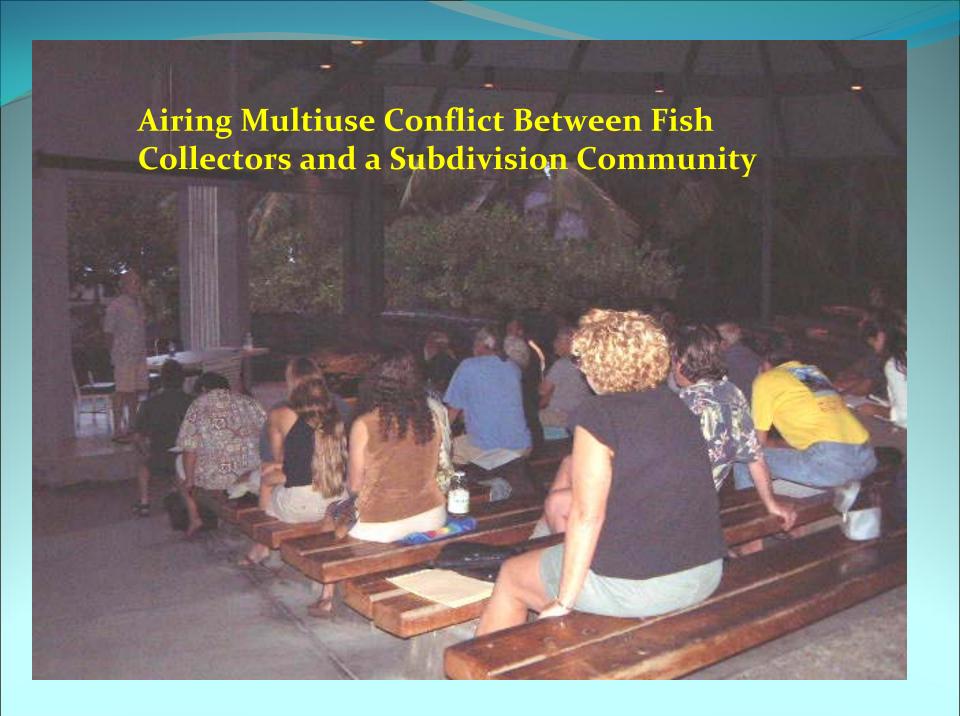
### **Species of Special Concern**

















#### Ours ...

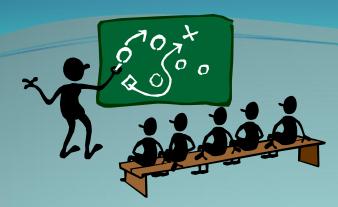


... To Malama

Mahalo to: Harold K.L.Castle Foundation, Hawaii Community Foundation, Malama Kai Foundation, The Fish and Wildlife Foundation, Hawaii County, The Kohala Center, CZM, HCRI, Bishop Holdings, DLNR, Atherton Foundation, UH Sea Grant College Program, SOEST, CCN, TNC



## END



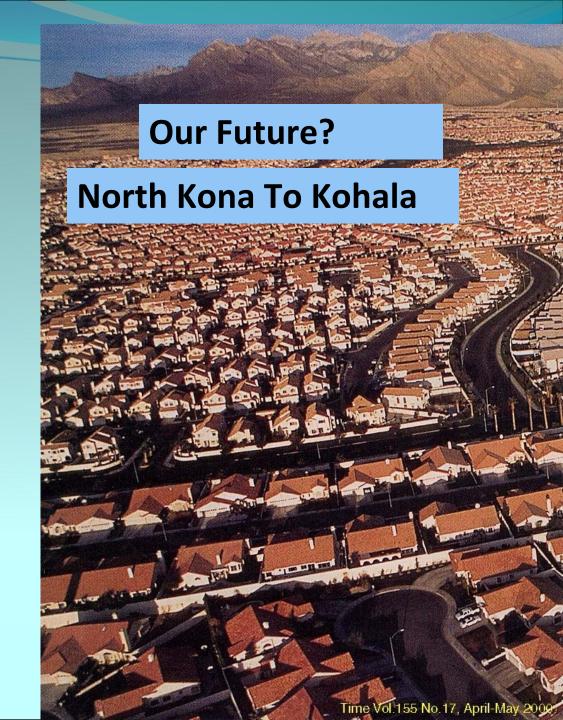
**Objective 1:** Throughout the year, six or more free, educational public information events on topics relating to the Coastal Communities and Economies theme will be scheduled.

Hawaii Island residents will also be informed on priority topics identified by Hawaii County by providing resources, workshops and informational meetings as defined by the HCRC which generally include: community disaster preparedness, leadership development, identifying community needs and building community capacity

- NEED
- Title
- ReefWatcher Data
- More Pics of WHFC
- More Pics of ReefTeach

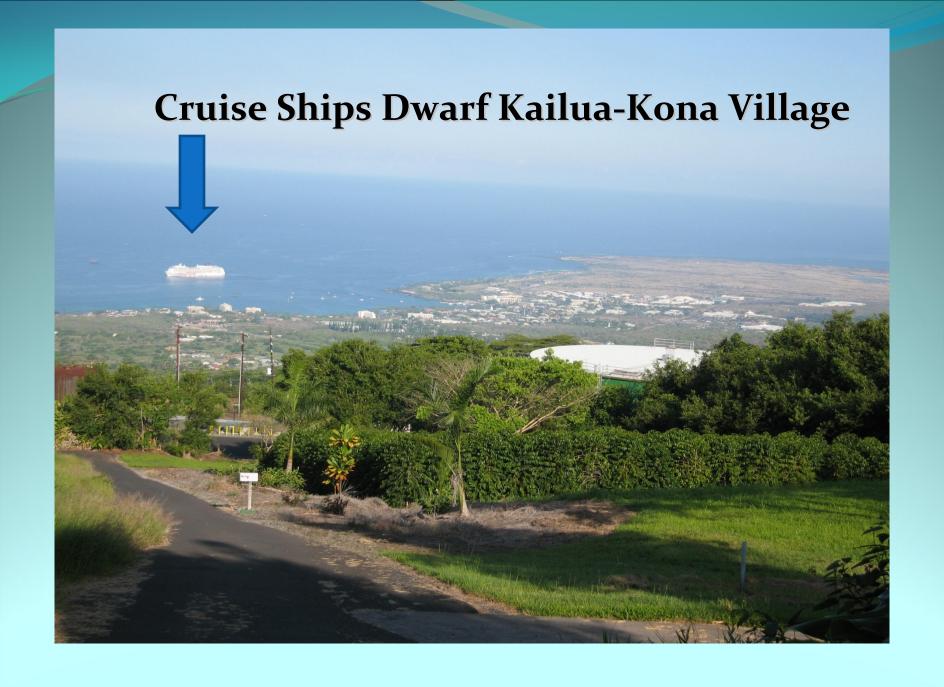
# Address Land Use Issues SPRAWL Rural & Urban

- Obesity
- Diabetes
- Heart Disease
- Asthma
- Depression
- Childhood obesity
- Diabetes
- Bicycle accidents
- Isolation
- Overall productivity
- Quality of Life





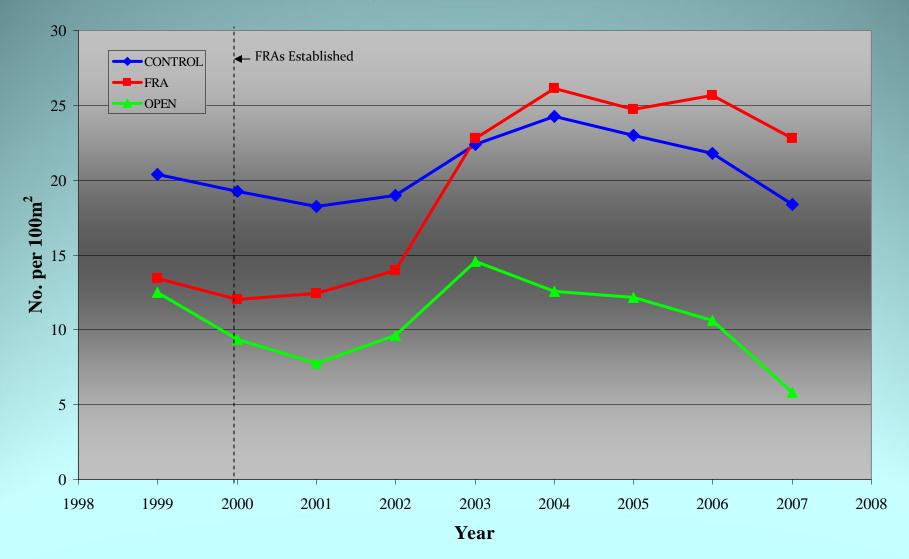




### Management of the West Hawai'i Aquarium Fisher



### Yellow Tang (excl YOY) Annual Totals



WHAP - DAR/UH



Created
Local
Resource
Councils

Miloli`i Hawaiian Fishing Village

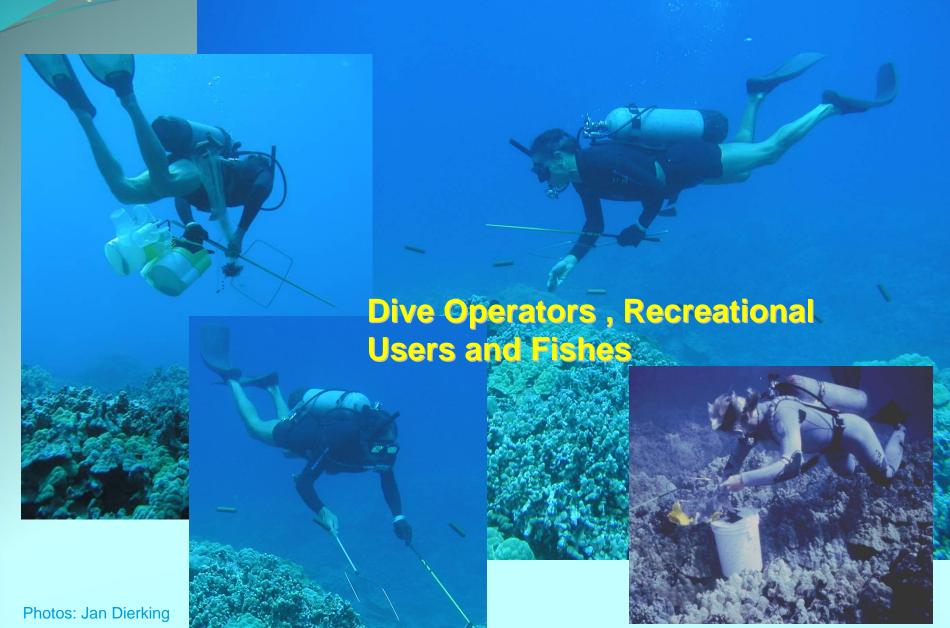


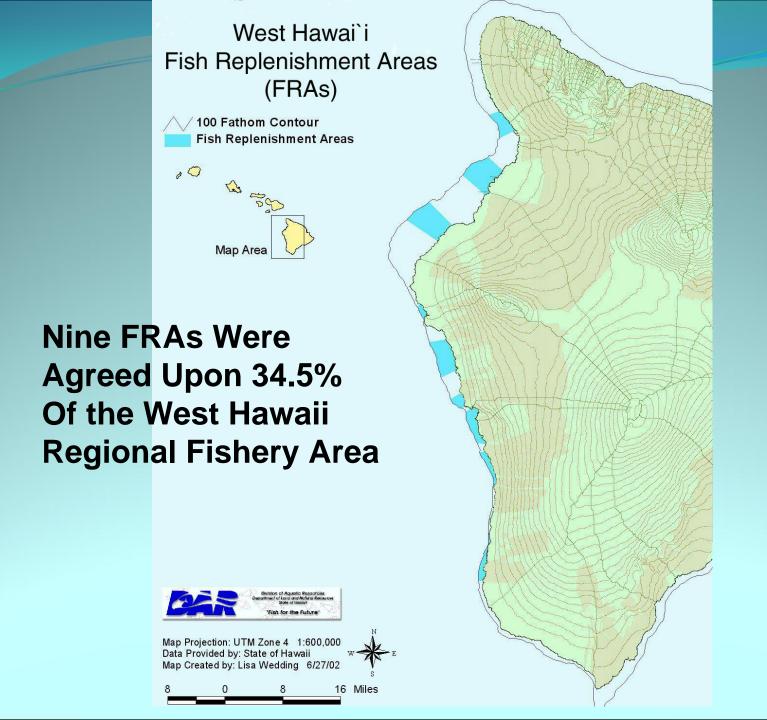
Kohala & Kawaihae

### Kawaihae Local Resource Council



### **Aquarium Fish Collectors**





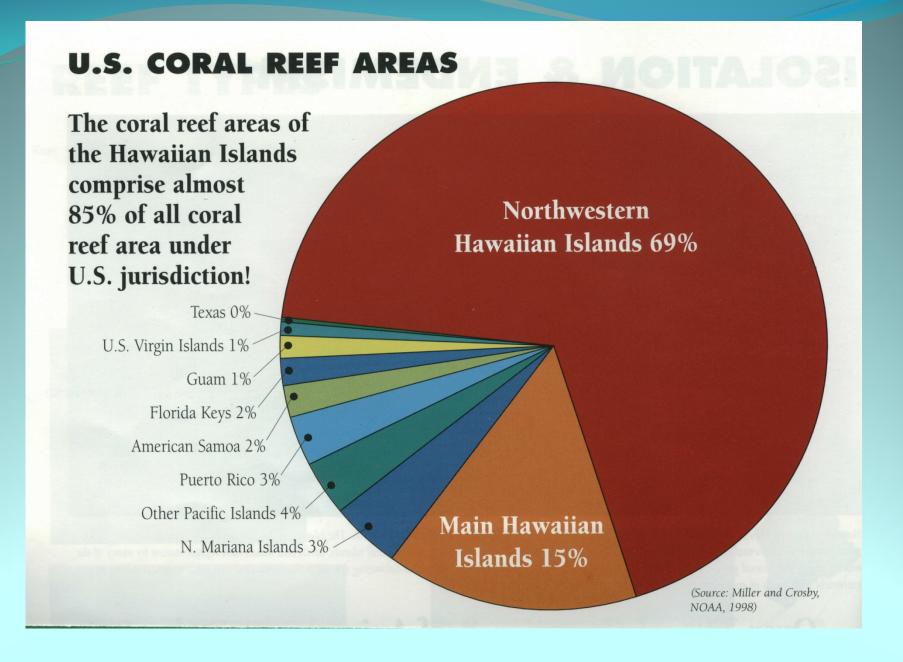


### No Aquarium Collecting

No Fish Feeding















Northwestern Hawaiian Islands

Main Hawaiian Islands

## Our Aim as Reef Teachers...





Educate the public about the reef environment so they can enjoy it without damaging it!