

Rural and Remote Area Recycling

The Challenges of
Recycling in Hawaii



Hawaii



Hawaii - Basic Facts

- 8 Major Islands: Hawaii, Maui, Molokai, Lanai, Kahoolawe, Oahu, Kauai, Niihau
- 6,400 Square Miles
- Resident population: 1,285,000 (2005)
 - 70% - Oahu
 - 13% - Hawaii
 - 11% - Maui County
 - 5% - Kauai County
- Visitor Count: 7,825,109 (2005)
 - Average Daily Census: 185,445

Hawaii Solid Waste Disposal

- 10 MSW Landfills
Largest: 326,000 tons per year
- 2 C&D Landfills
Largest: 210,000 tons per year
- 1 WTE Incinerator
600,000 tons per year

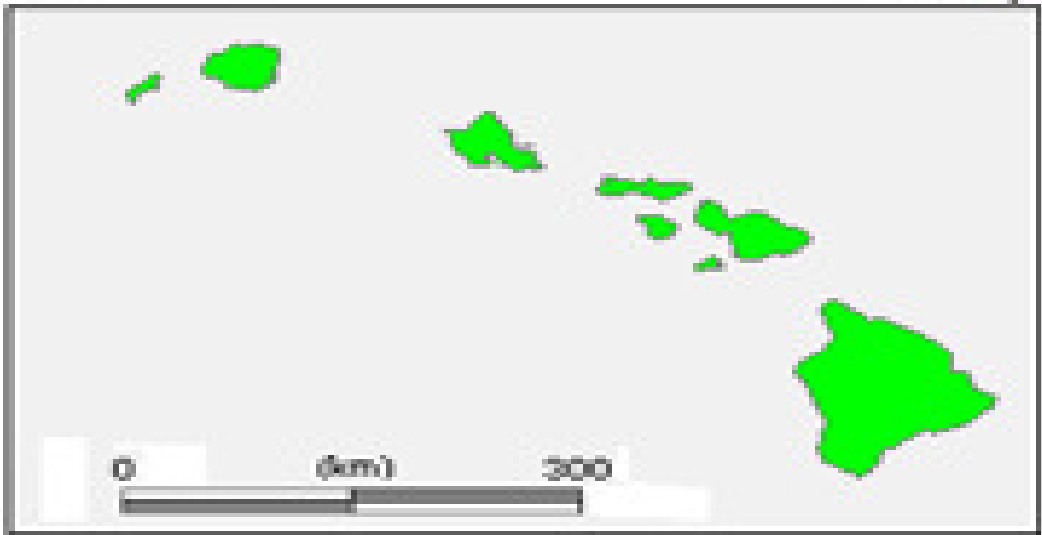
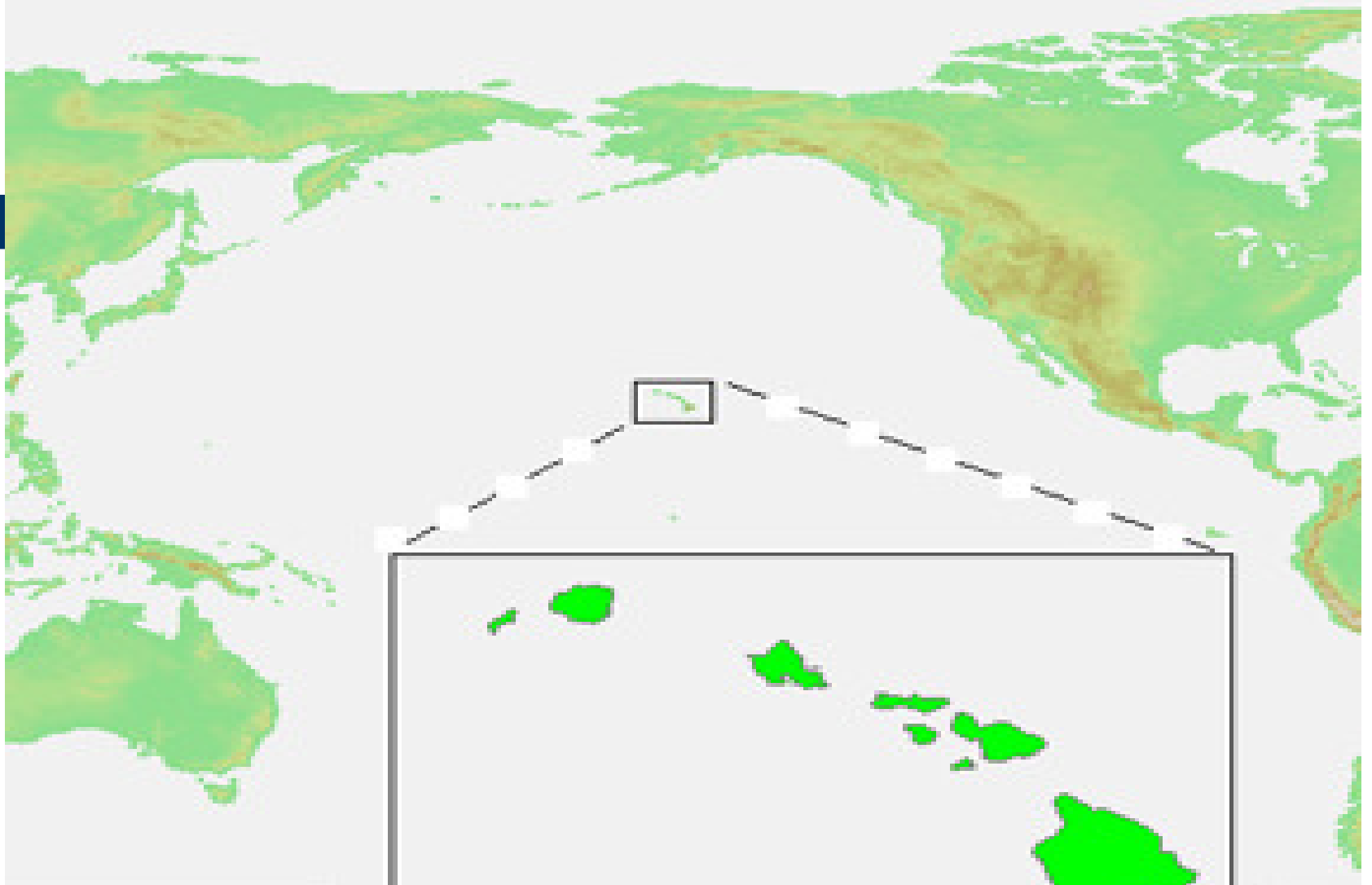
Recycling Activity

- Metals: 120,000 tons (U.S. Mainland, Far East)
- Organics: 230,000 tons (Local)
- Paper: 91,000 tons (Far East)
- Glass: 19,000 tons (Local, U.S. Mainland)
- Plastic: 700 tons (Far East)

- Overall Recycling Rate: 32% (2005)

Recycling Programs

- State is generally a regulator
- State programs include:
 - Glass Advance Disposal Fee (ADF) Program
 - Deposit Beverage Container (DBC) Program
 - Landfill bans
- County programs
 - Landfill bans on recyclable materials
 - Commercial recycling mandates in local law
 - Residential Recycling Drop-offs bins
 - C&C of Honolulu working to implement curbside recycling
- Private recyclers – including some small scale curbside recycling services



Recycling Challenges – Isolation and Island Geography

- Isolation

 - Hawaii to U.S. West Coast: 2,500 miles

 - Hawaii to Far East: 4,500 to 5,000 miles

- Island Geography

 - Water separating each of the main islands – adds to shipping costs

 - Limited land – 6,400 square miles

 - Much of it protected or unsuitable for development
 - Translates to high land costs
 - Hawaii housing costs consistently among the highest in the nation

Recycling Challenges – Jones Act

- Island Geography (cont.)

 - Relatively small population base

 - Limits economies of scale

- Jones Act

 - Portion of the Merchant Marine Act of 1920

 - Intent is to protect U.S. shipping interests

 - Prevents foreign vessels from making two stops at U.S. ports

 - Effect is to increase the cost of shipping to/from Hawaii

Recycling Challenges – Shipping Rates

- Mainland/Far-East Shipping

West Coast U.S. to China:	\$180-\$200/container
West Coast U.S. to Korea:	\$300-\$400/container
Honolulu to China:	\$1,345/container
Honolulu to Korea:	\$1,280/container
Honolulu to West Coast U.S.:	\$ 1,900/container

- Inter-Island Shipping

All incoming/outgoing cargo goes through Honolulu
\$465/container

Recycling Challenges – Other

- Low unemployment rate
Lowest in the nation at 2.4%
- Government funding
State program funded through tip fee surcharge
The lowest in the nation at \$0.35/ton

Thank You

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