



Three Decades of Debris Data:

What regular cleanup activities reveal about marine debris recovery efforts in Hawai'i

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HAWAIIAN ISLANDS

HAWAII



Efficient

Definition per Dictionary.com (adjective)

- 1. performing or functioning in the **best possible manner with the least waste of time and effort**; having and using requisite knowledge, skill, and industry; competent; capable:
a reliable, efficient assistant.



J. Viezbicke / NOAA



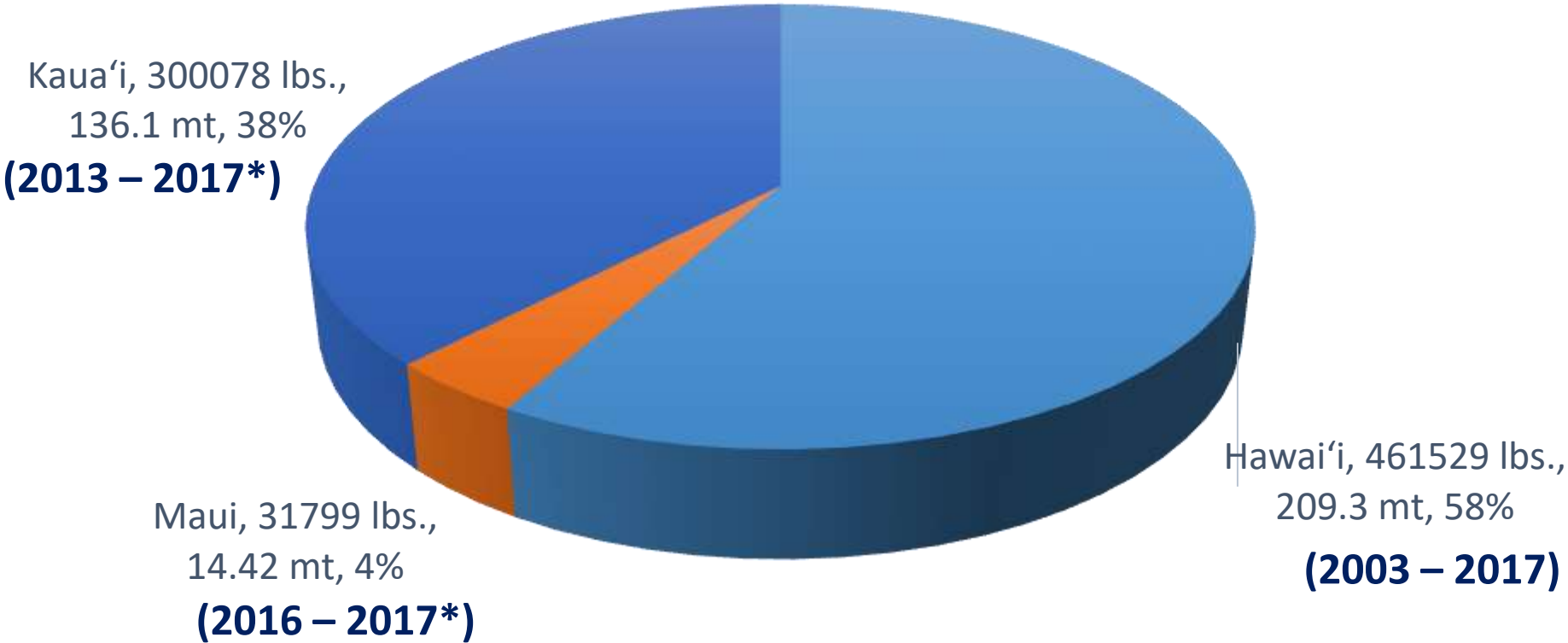
US FWS



Collectively from 2003 - 2017, HWF and SRK have removed **>793,406 lbs. of debris (359.8 Mt)** from the shores of Hawai'i Island (15 yrs.), Kaua'i (11 yrs.) and Maui (4 yrs.).

Marine Debris Removal – Summary Stats

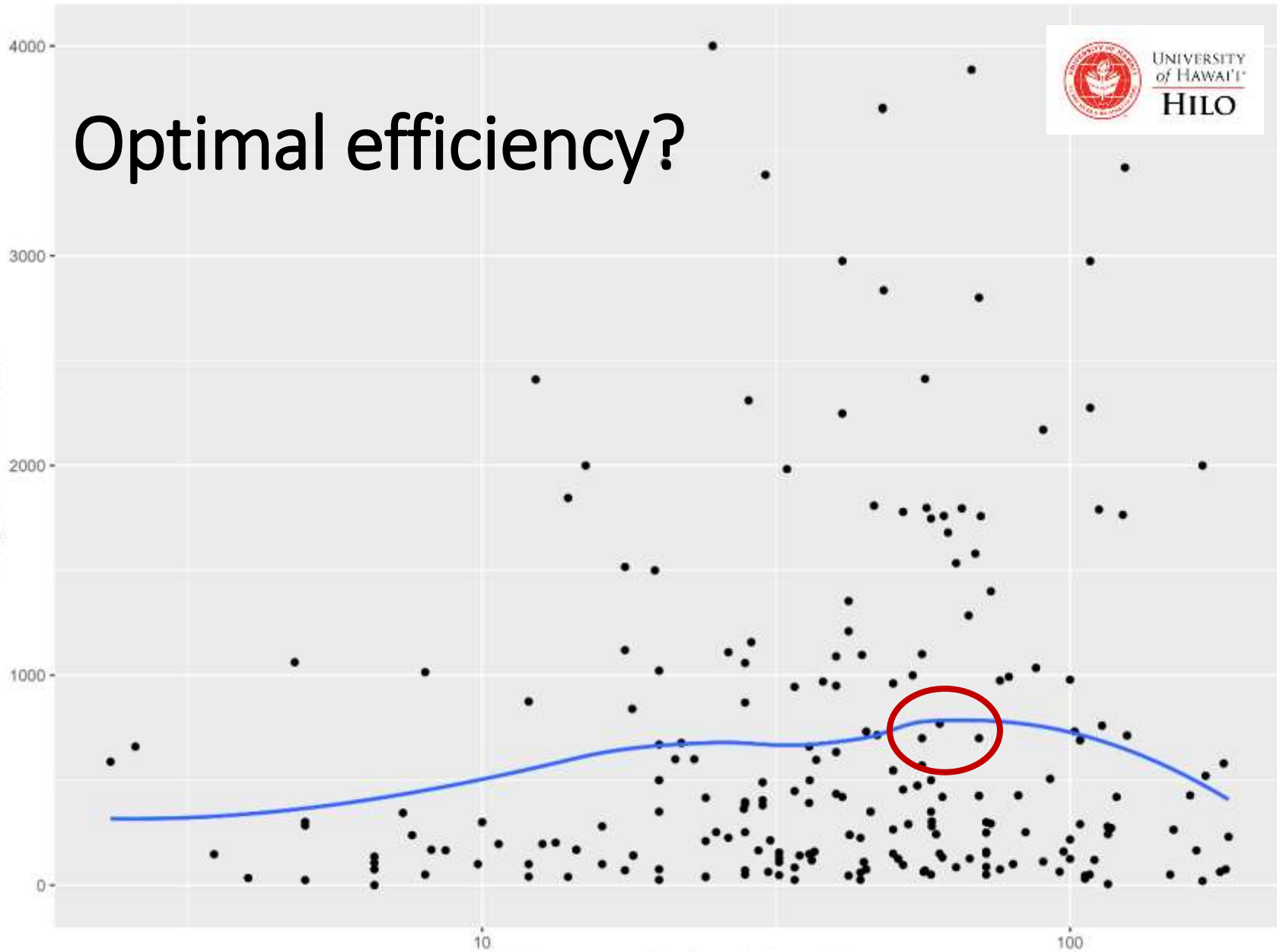
Hawai'i Wildlife Fund & Surfrider Foundation Kaua'i



Optimal efficiency?

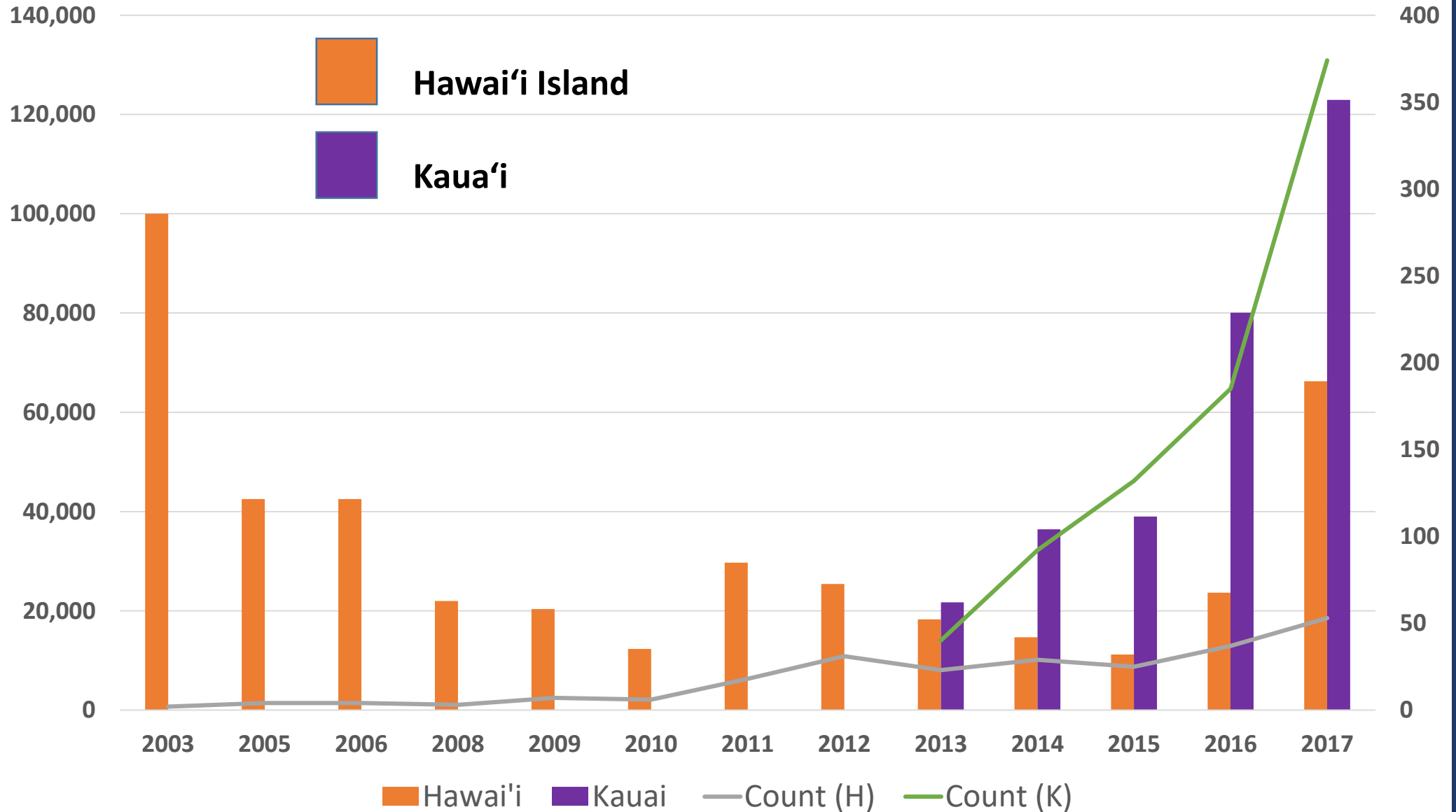


Weight of non-net debris (lbs.)

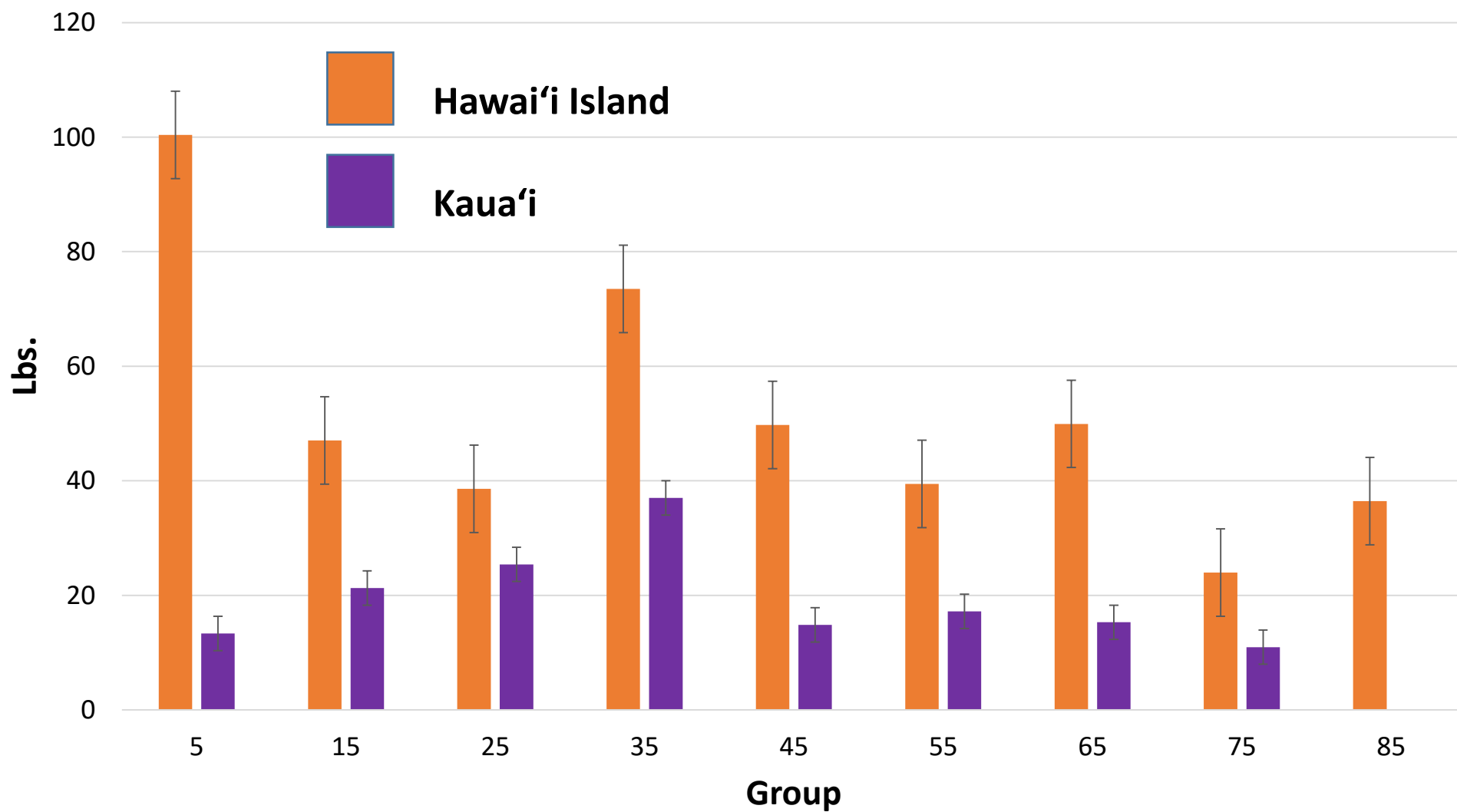


Participants per mile of beach (log scale)

Total Weight Removed by Year vs Cleanup Count (Lbs.)



Average Weight Collected Per Person by Group Size (Lbs.)



Beach cleanups



Artists Cleanup @ Kamilo
MONDAY Oct. 30th, 2017

#makeARTnotplastic



The poster features a background image of a beach heavily littered with plastic waste and driftwood. The text is overlaid on this image. At the bottom, there are four logos: the Hawaii Wildlife Fund logo, a Kombucha logo, an Upcycler Hawaii logo, and a Festival Kona Brewers logo.



HAWAII WILDLIFE FUND
DIVISION OF FORESTRY AND WILDLIFE
NATURAL AREA RESERVES SYSTEM

JOIN US FOR A FUN
DAY AT THE BEACH!

MANUKĀ
NATURAL AREA RESERVE
BEACH CLEAN UP
SATURDAY APRIL 21, 2018
8:30AM – 3:30PM

HAWAII WILDLIFE FUND
HAWAII ISLAND
NATURAL AREA RESERVE SYSTEM

TO SIGN UP PLEASE EMAIL
HAWAII WILDLIFE FUND
BY APRIL 15TH, 2018
kahakai.cleanups@gmail.com

Join us, the Hawaii Wildlife Fund and the Natural Area Reserve System on an adventure to remove drift trash from Manukā Natural Area Reserve coastline. Trash removal helps keep our coasts clean and safe for marine life!

The poster has a teal header with white text. The main image shows a group of people walking on a dark, rocky beach towards the ocean. The text is arranged in a clean, modern layout with a mix of teal, white, and black colors.



Net Patrols

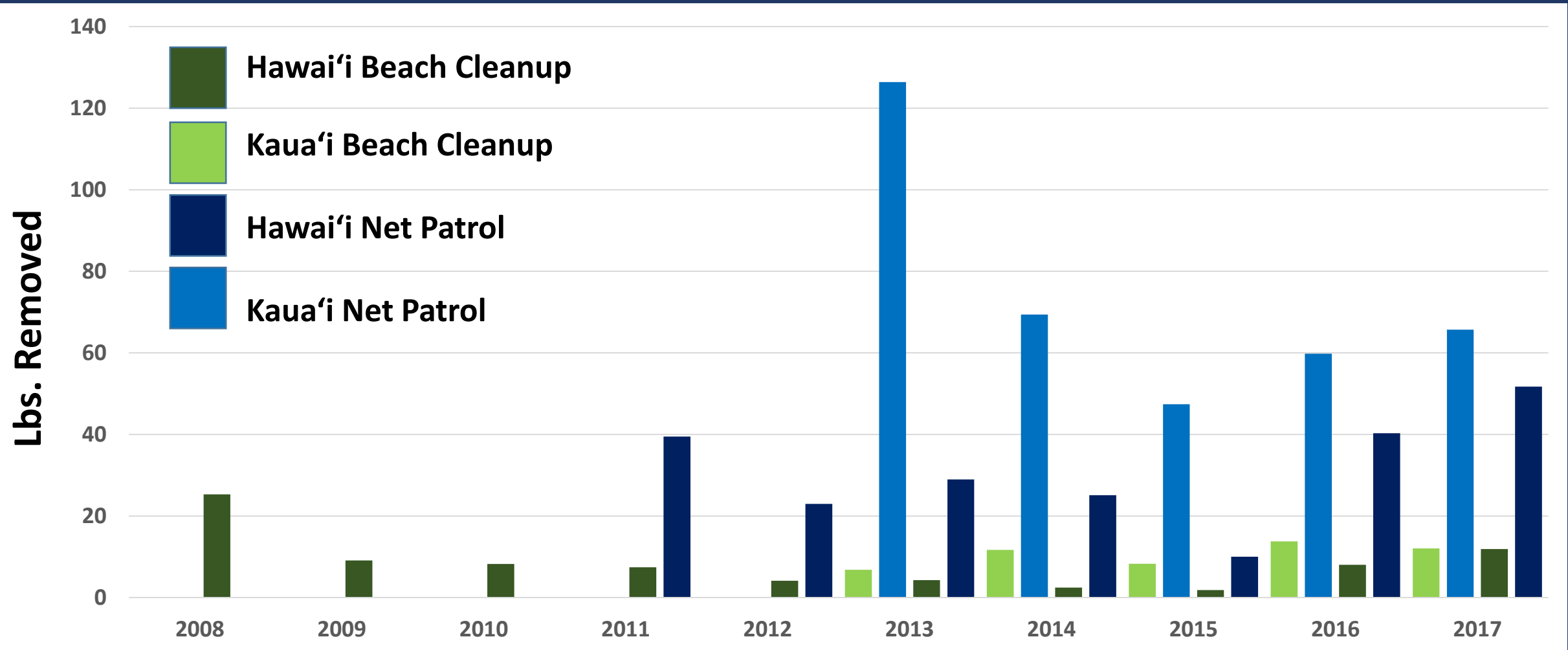


M. Connolly / UHH MOP

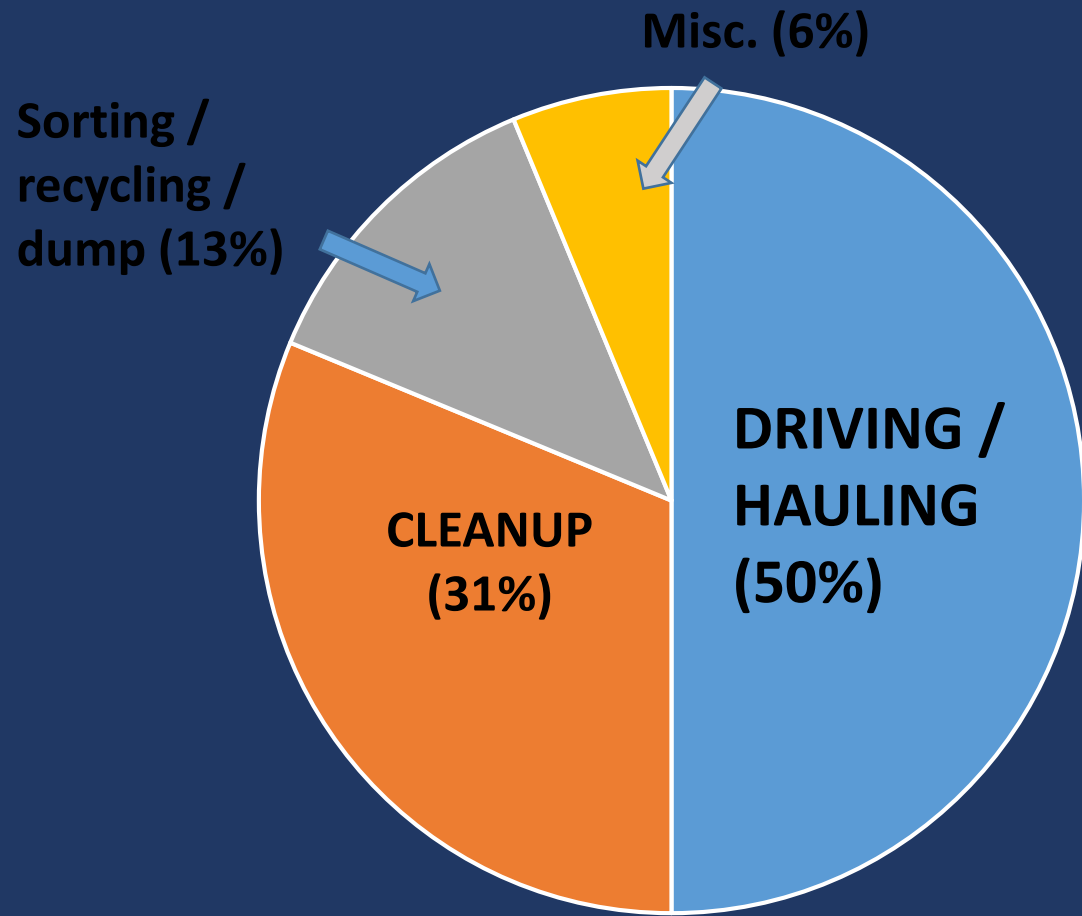




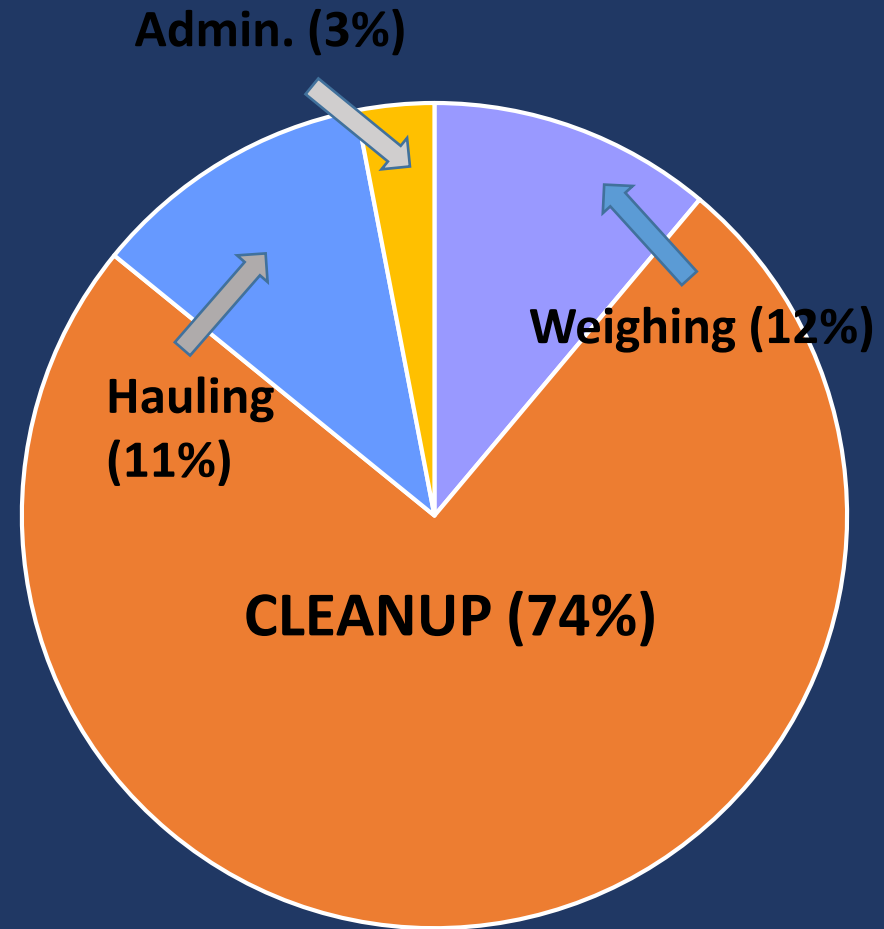
Average Weight Collected by (wo)Man-Hour



Volunteer Effort (% Time Spent on Debris Activities)



Hawai'i Island (BC)



Kaua'i (NP)

Net Patrols vs. Beach Cleanups

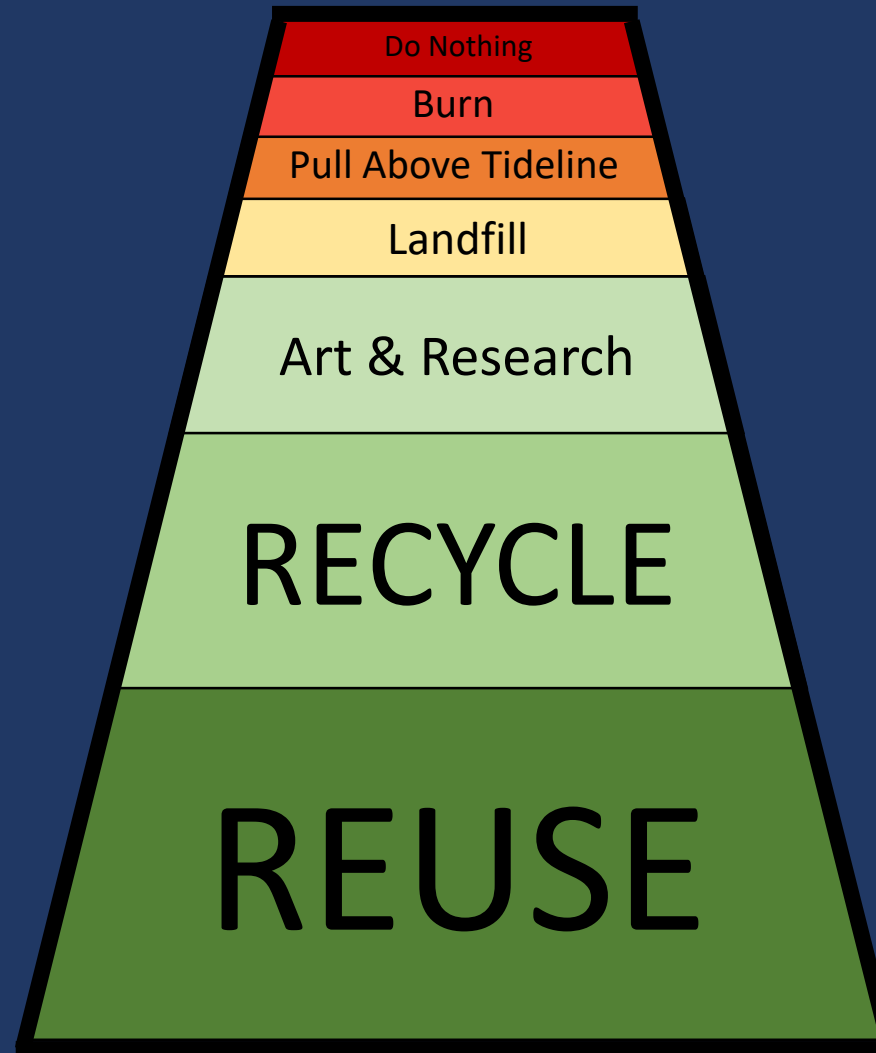
	Participants	Lbs. / Event	Lbs. / Man Hour
HWF Beach Cleanups	28	1122.8	7.2
HWF Net Patrols	4	735.4	32.4
SRK Beach Cleanups	33	764.7	11.3
SRK Net Patrols	4	403.3	64.8

Outreach





Preferred Disposal Hierarchy



Recycling Options – Hawai‘i



(2014 - 2015)



(2017 – 2018?)



(... 2018?)

Reuse / Debris Art Projects



Studio KCA



Pam Longobardi

Future Projects



UNIVERSITÉ DE
SHERBROOKE

HOOLA
ONE



Above photo from James King-Holmes / Science Source



ByFusion / Inhabit.com



Mahalo / acknowledgements

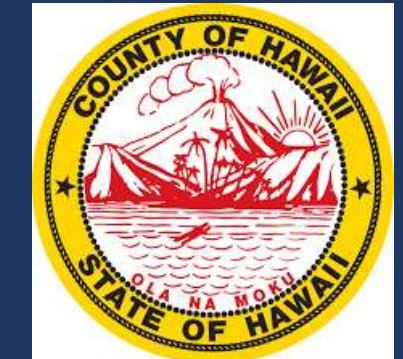




Photo by Noni Sanford



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HWF Debris Hotline 808-769-7629
surfriderkauai@gmail.com
Surfrider Hotline 808-635-2593