



Three Decades of Debris Data:

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

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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



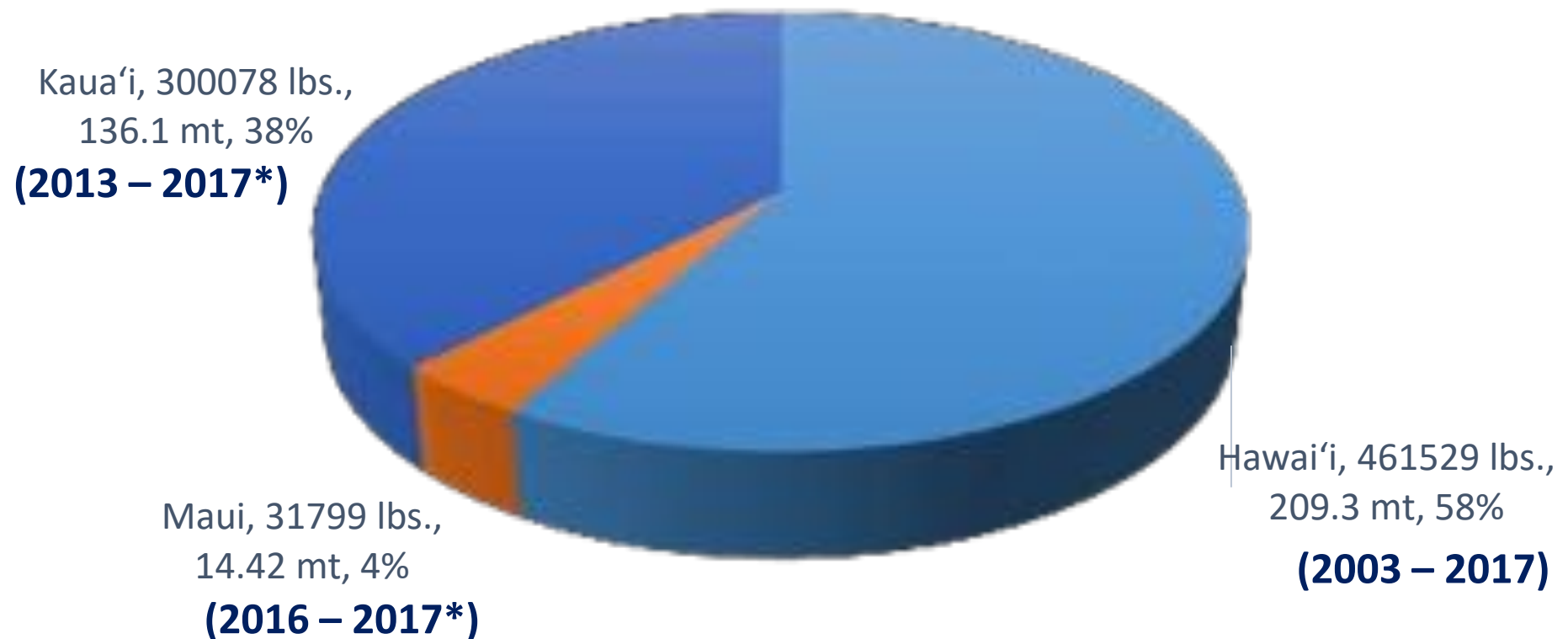
US FWS



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

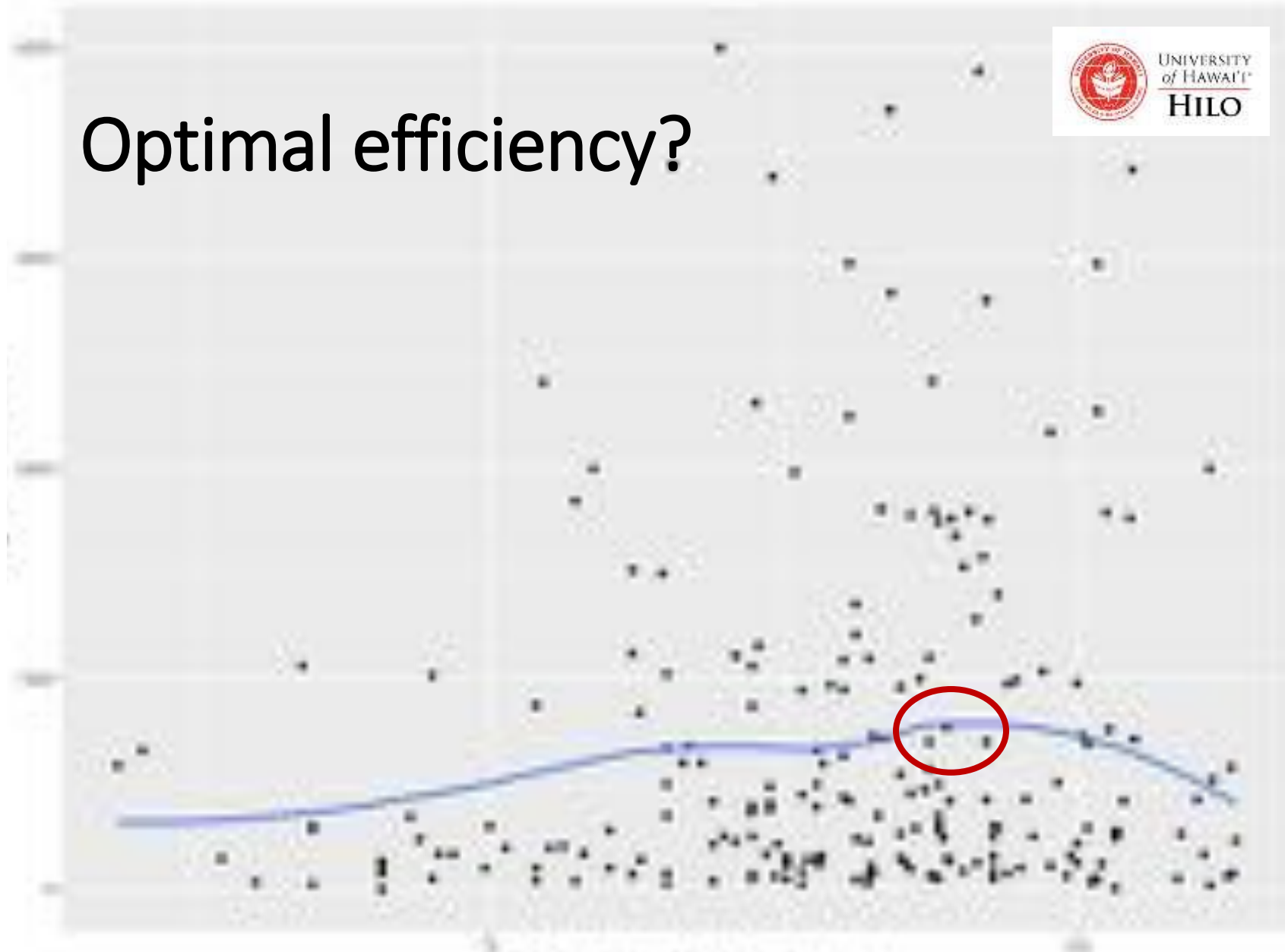
Hawai'i Wildlife Fund & Surfrider Foundation Kaua'i



Optimal efficiency?

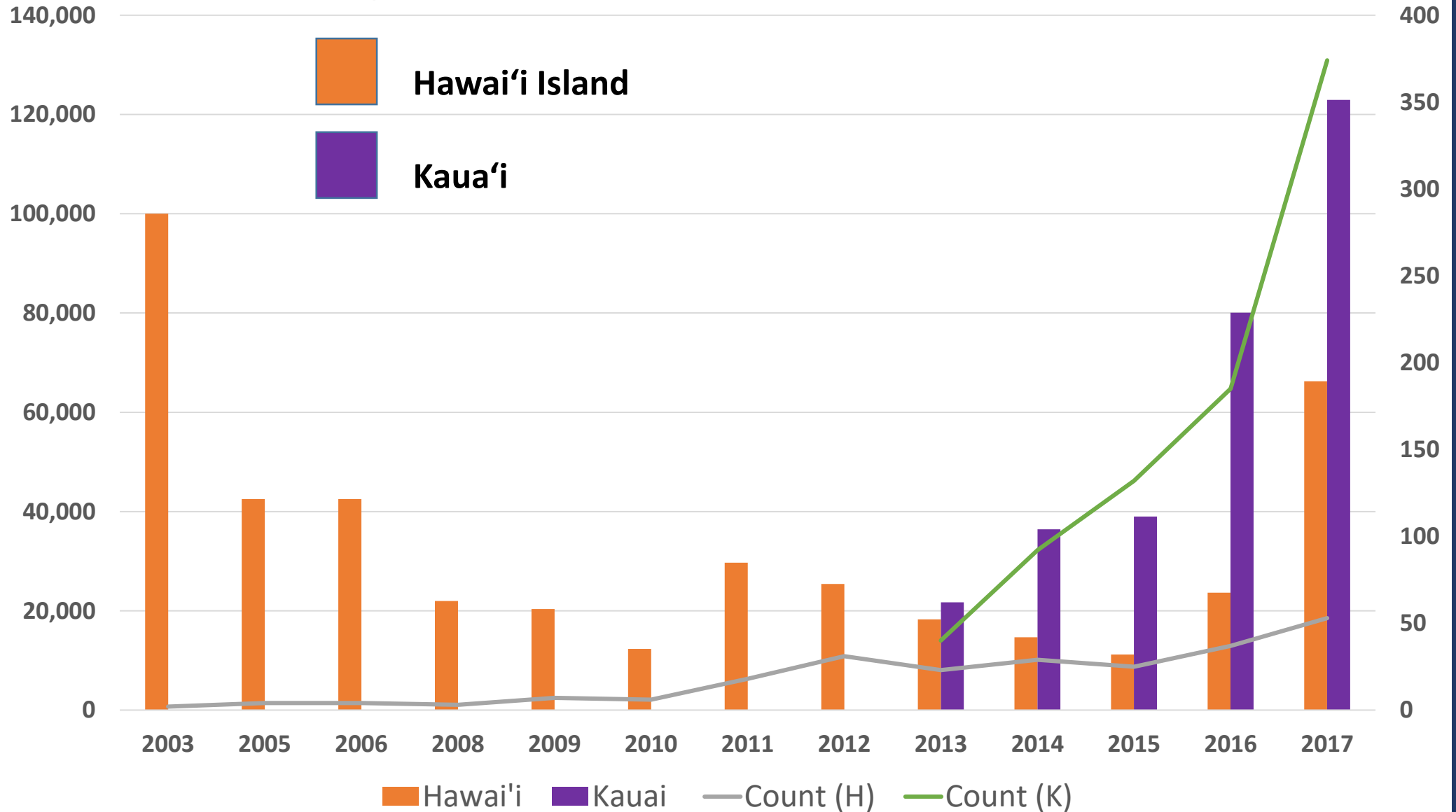


Weight of non-net debris (lbs.)

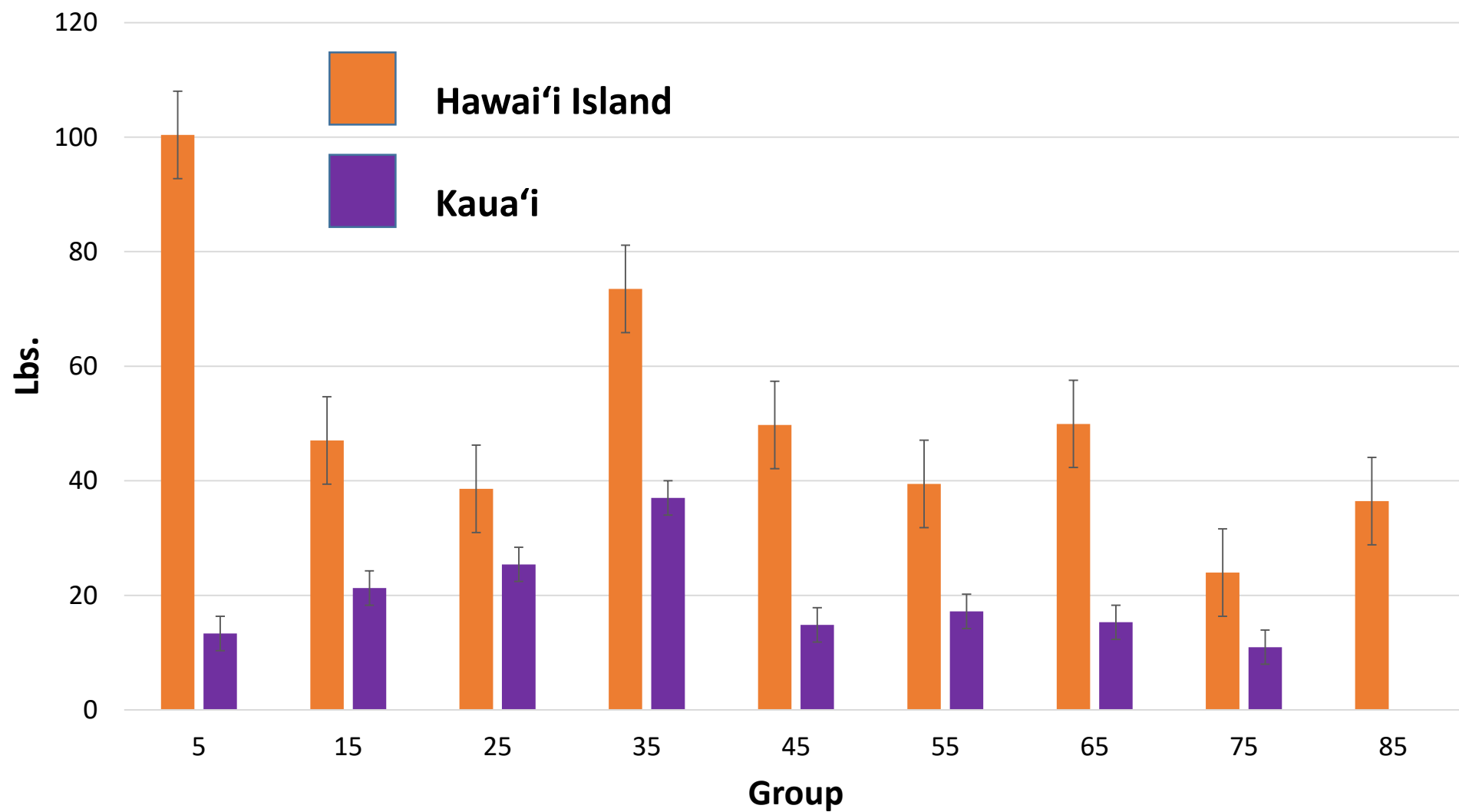


Participants per mile of beach (log scale)

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



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



Beach cleanups



Net Patrols

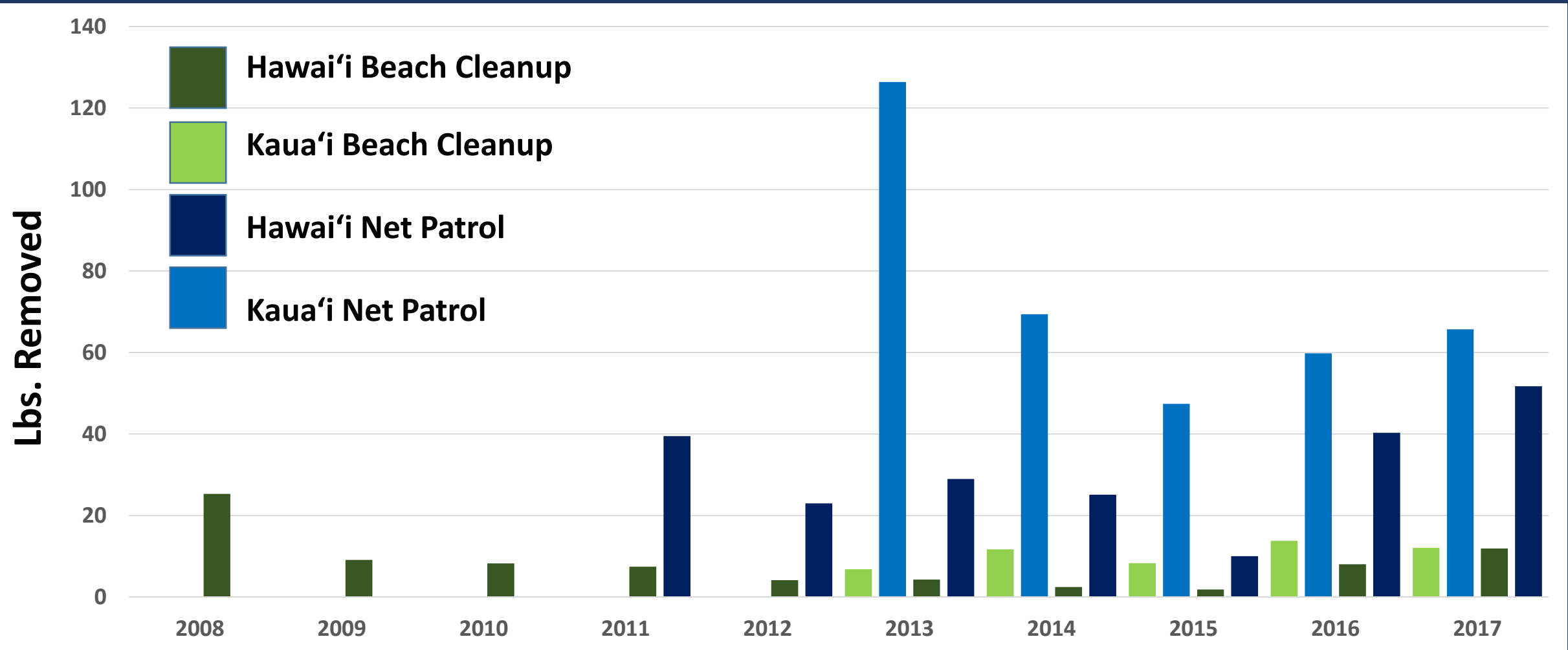


M. Connolly / UHH MOP

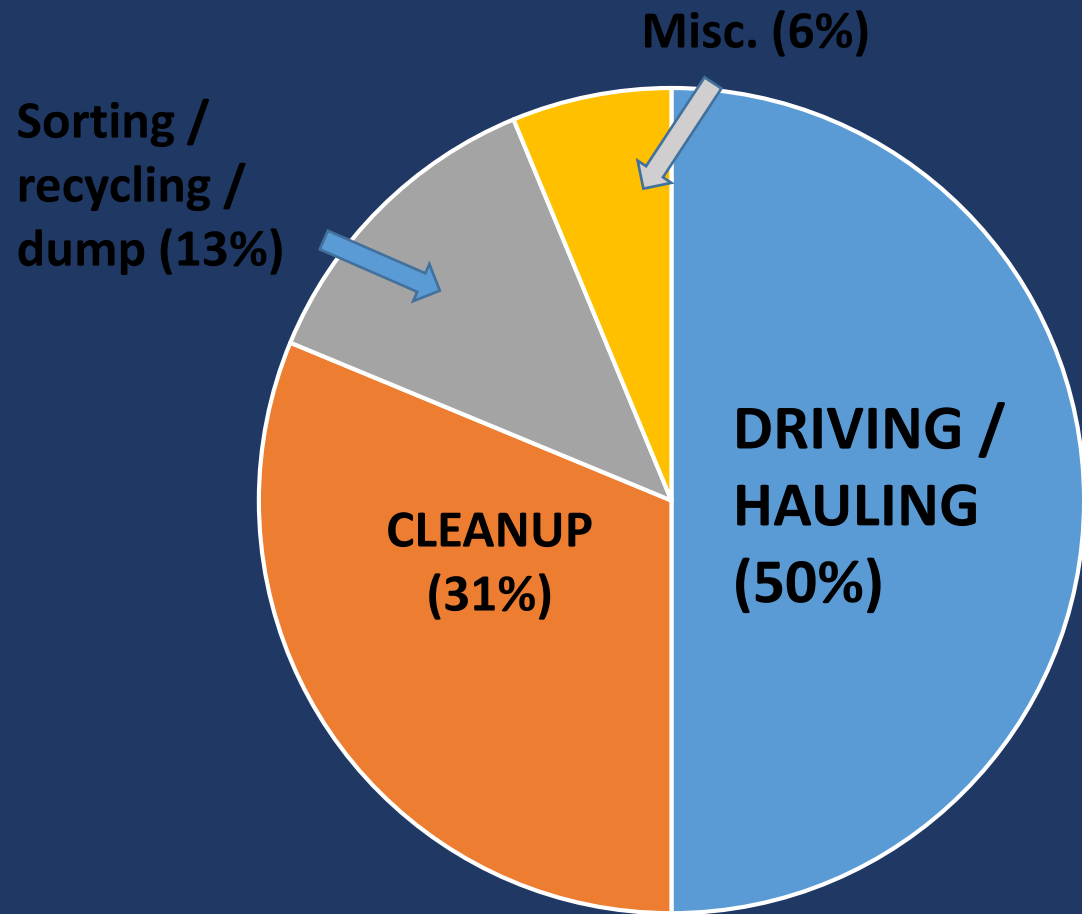




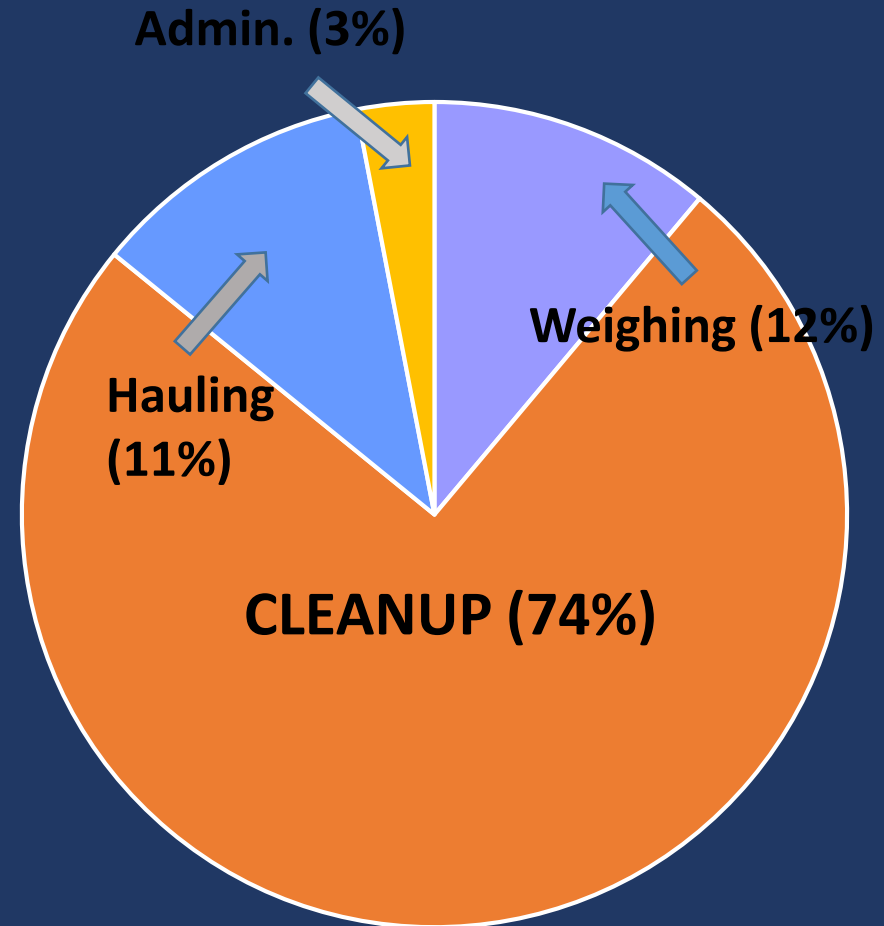
Average Weight Collected by (wo)Man-Hour



Volunteer Effort (% Time Spent on Debris Activities)



Hawai'i Island (BC)



Kaua'i (NP)

Net Patrols vs. Beach Cleanups

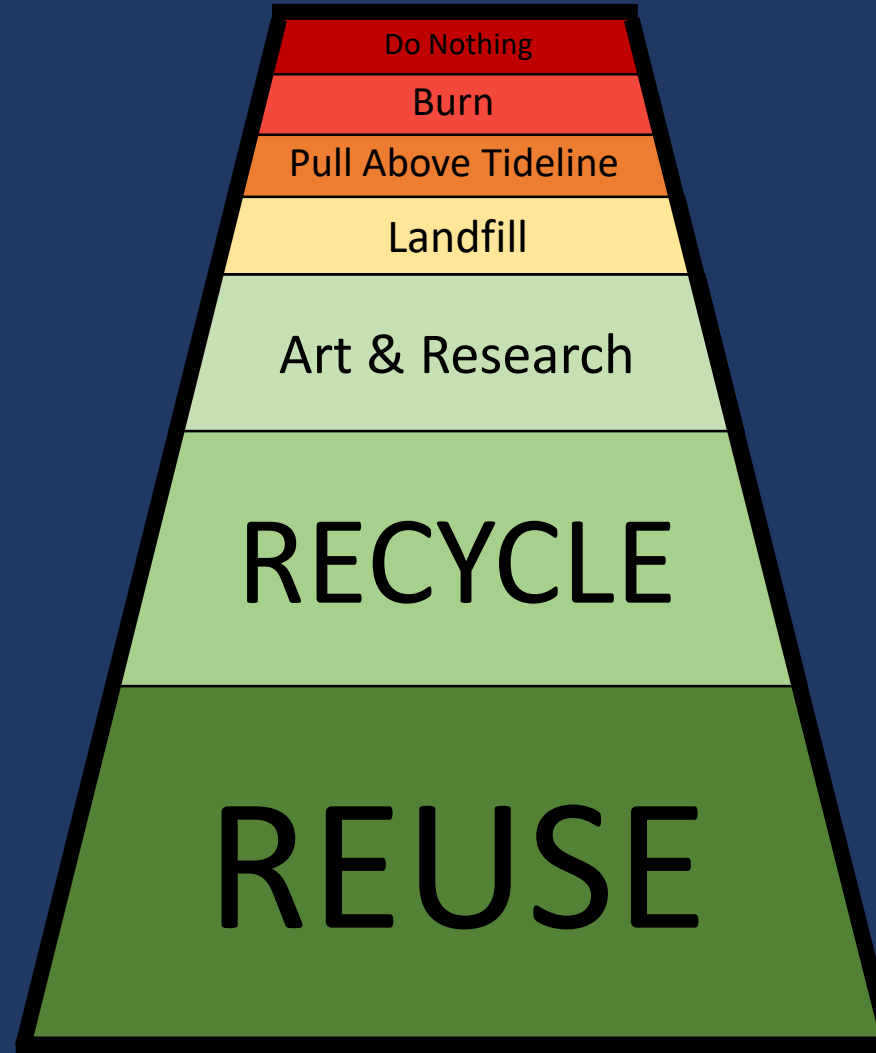
	Participants	Lbs. / Event	Lbs. / Man Hour
HWF Beach Cleanups	28	1122.8	7.2
HWF Net Patrols	4	735.4	32.4
SRK Beach Cleanups	33	764.7	11.3
SRK Net Patrols	4	403.3	64.8

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



Above photo from James King-Holmes / Science Source



ByFusion / Inhabit.com

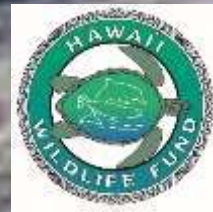


Mahalo / acknowledgements





Photo by Noni Sanford



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