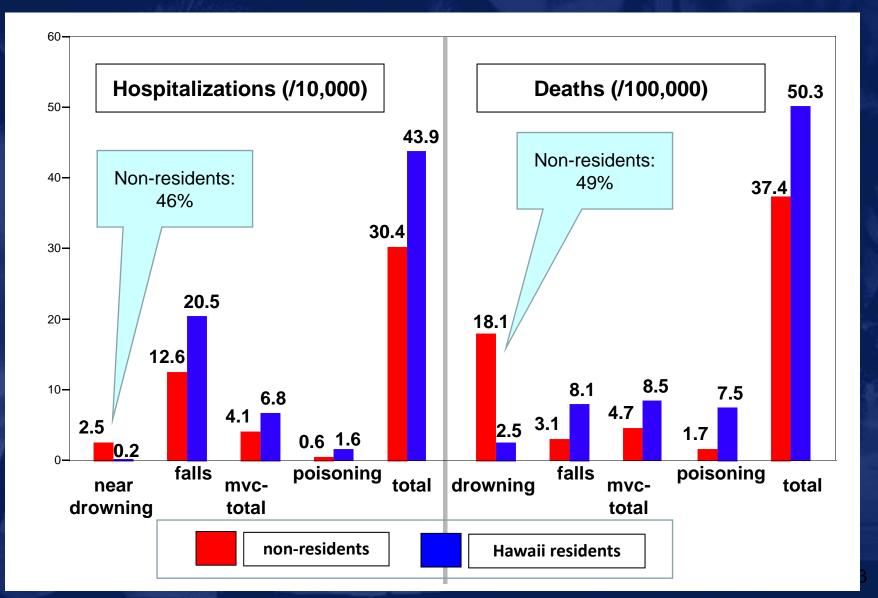
Visitor Safety: How Are We Doing?

Dan Galanis
Injury Prevention and Control Section,
EMS & Injury Prevention Systems Branch,
Hawaii Department of Health

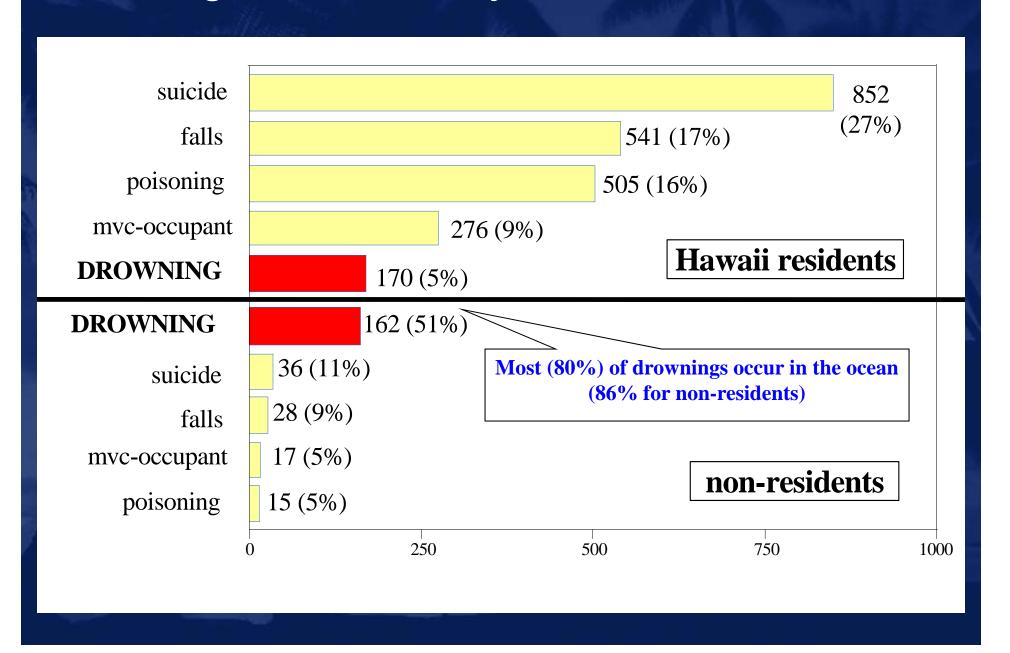
Overview of presentation

- Part I: Visitor Safety: How are we doing?
 - Statewide data, 2003-2012
 - Injury rates: residents compared to visitors
 - Fatal and non-fatal injuries
- Part 2: County descriptions
 - Rate comparisons
 - County specific trends, data, and maps
 - Locations, victim residence, and seasonality (October-March vs. April-September)

Annual rates of injury-related hospitalizations and deaths, by residence status, 2008-2012



Leading causes of fatal injuries in Hawaii, 2008-2012



"Injury Pyramid" for injuries among non-residents in Hawaii

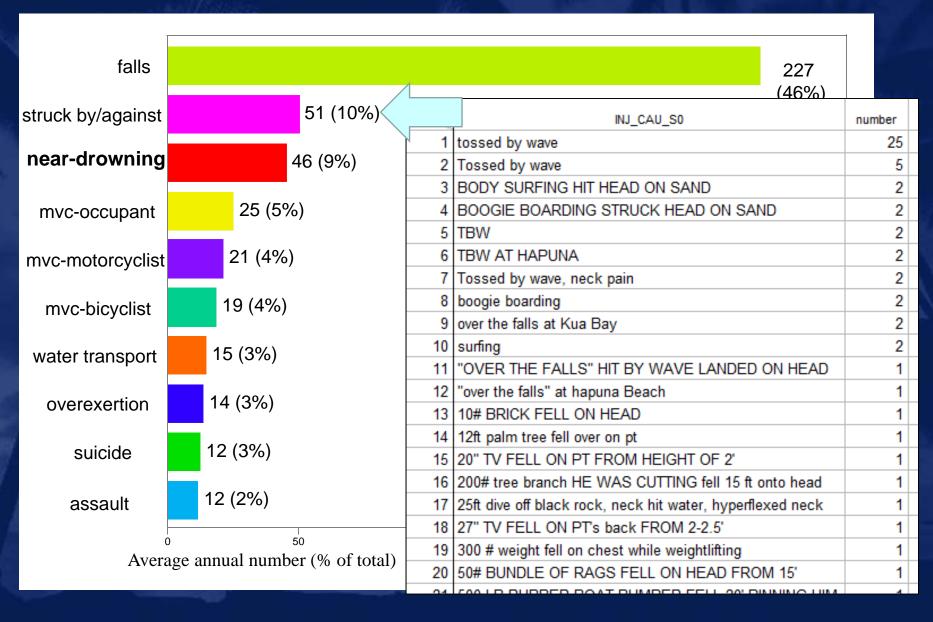
Deaths 68/year

Hospitalizations ~550/year

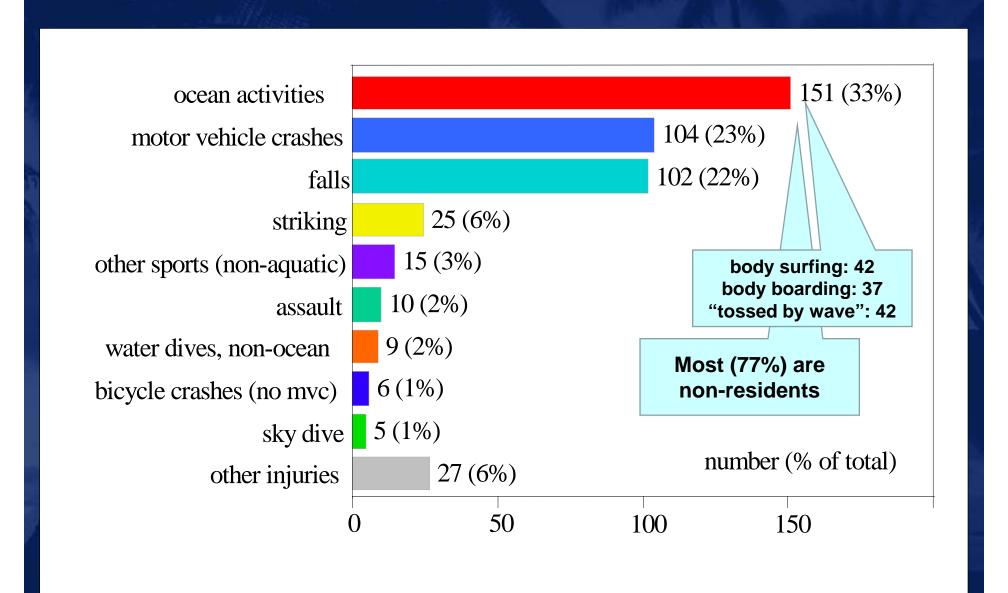
Nonfatal injuries

Emergency department visits ~7,730/year

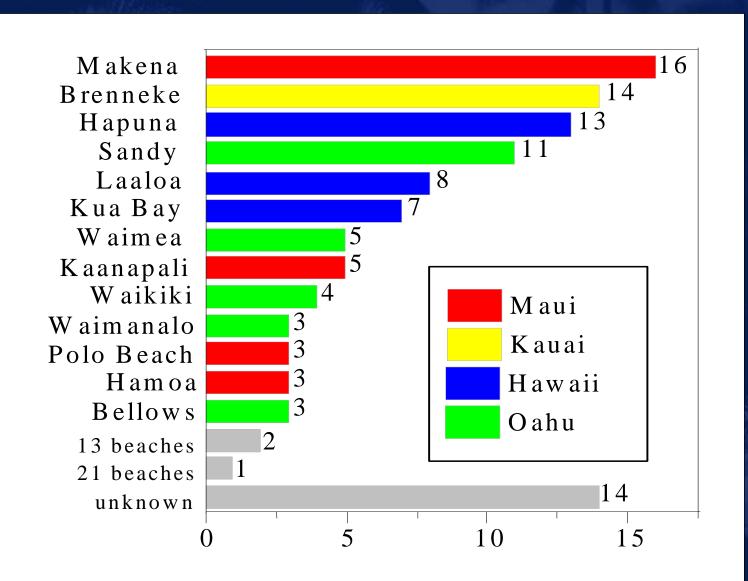
Leading causes of hospitalizations for non-fatal injuries among non-residents in Hawaii, 2008-2012



Leading causes of spinal cord injuries in Hawaii, 2009-2012

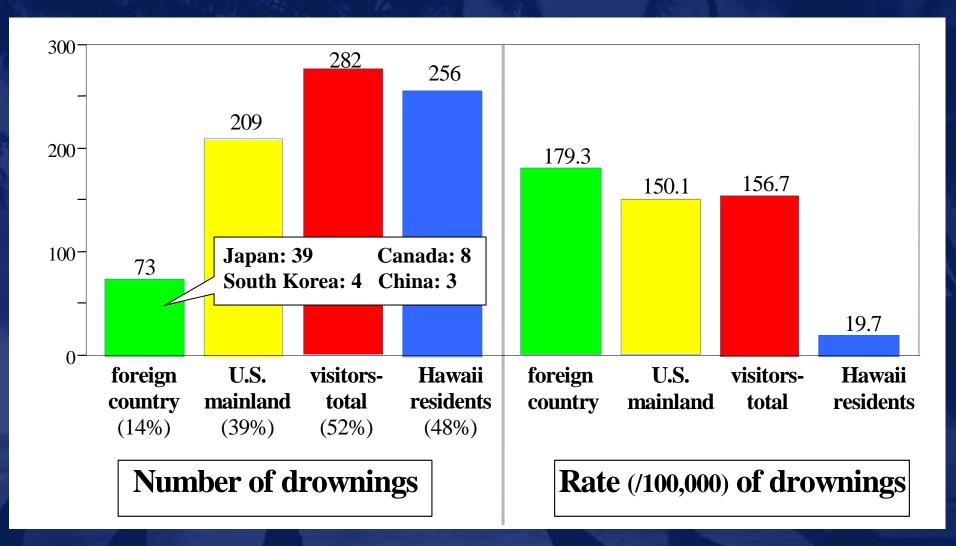


Location (beach) of spinal cord injuries from ocean activities in Hawaii, 2009-2012

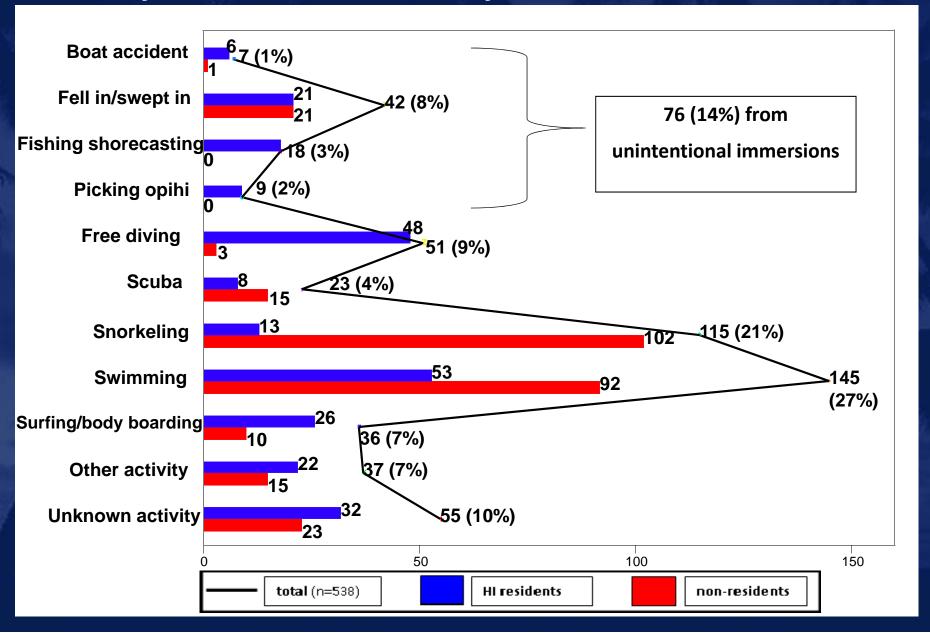


Ocean drownings, 2003-2012

Number and ten-year rate of ocean drownings in Hawaii, by residence of victim, 2003-2012

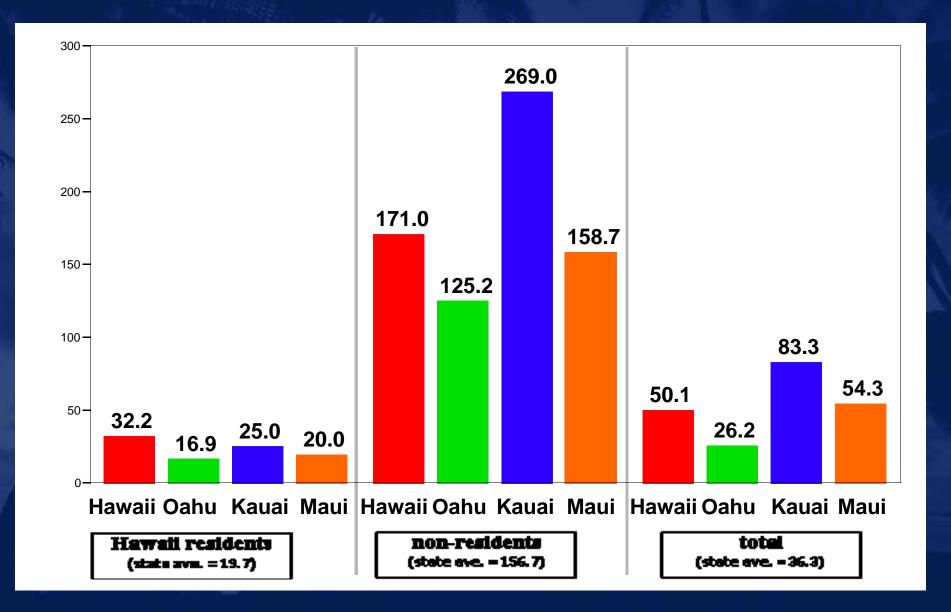


Ocean drownings in Hawaii, by residence and activity of victim, 2003-2012



County-specific data

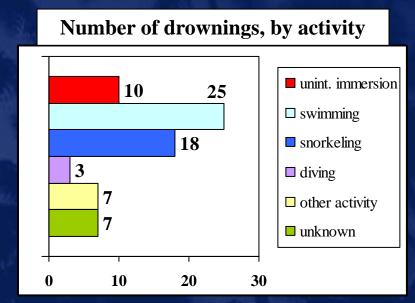
Ten-year rate (/100,000) of ocean drownings in Hawaii, by residence status and county, 2003-2012

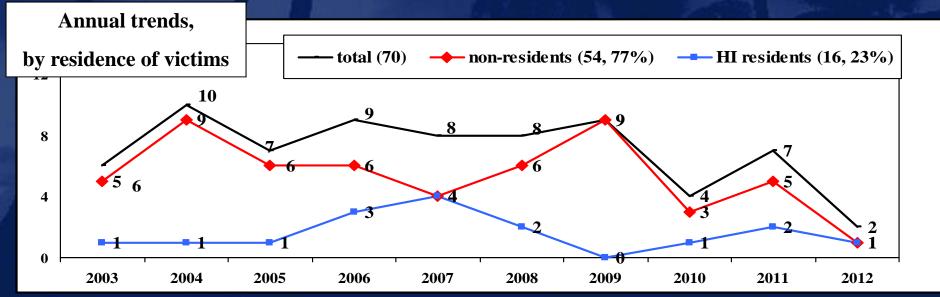


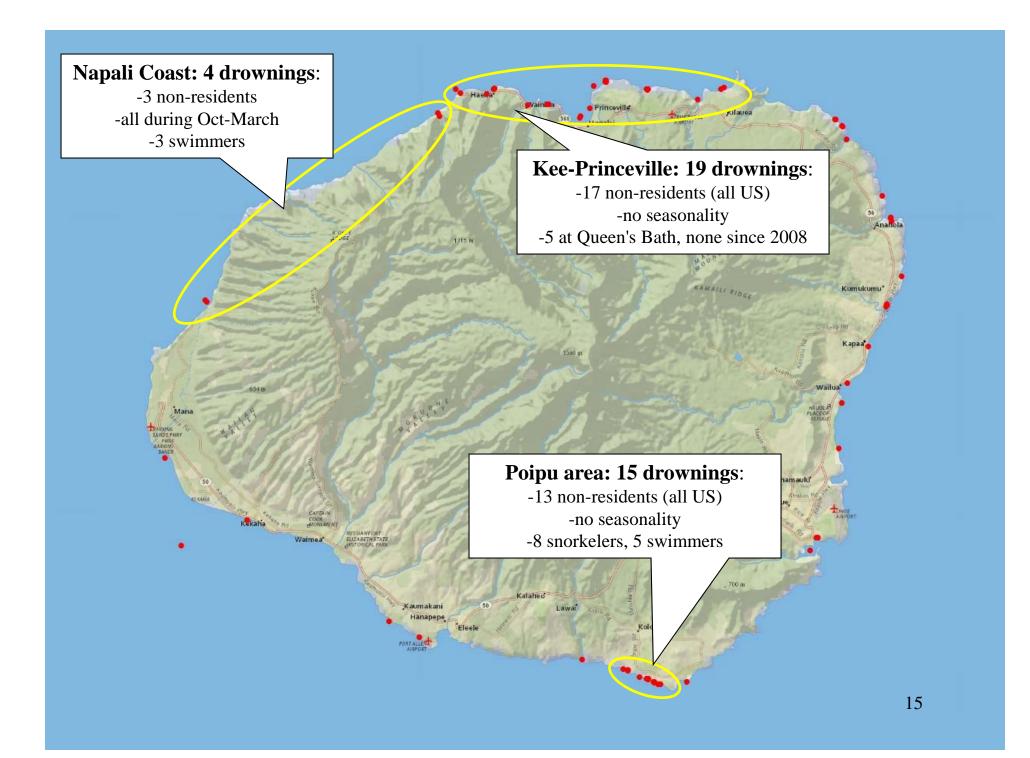
Ocean drownings on Kauai, 2003-2012

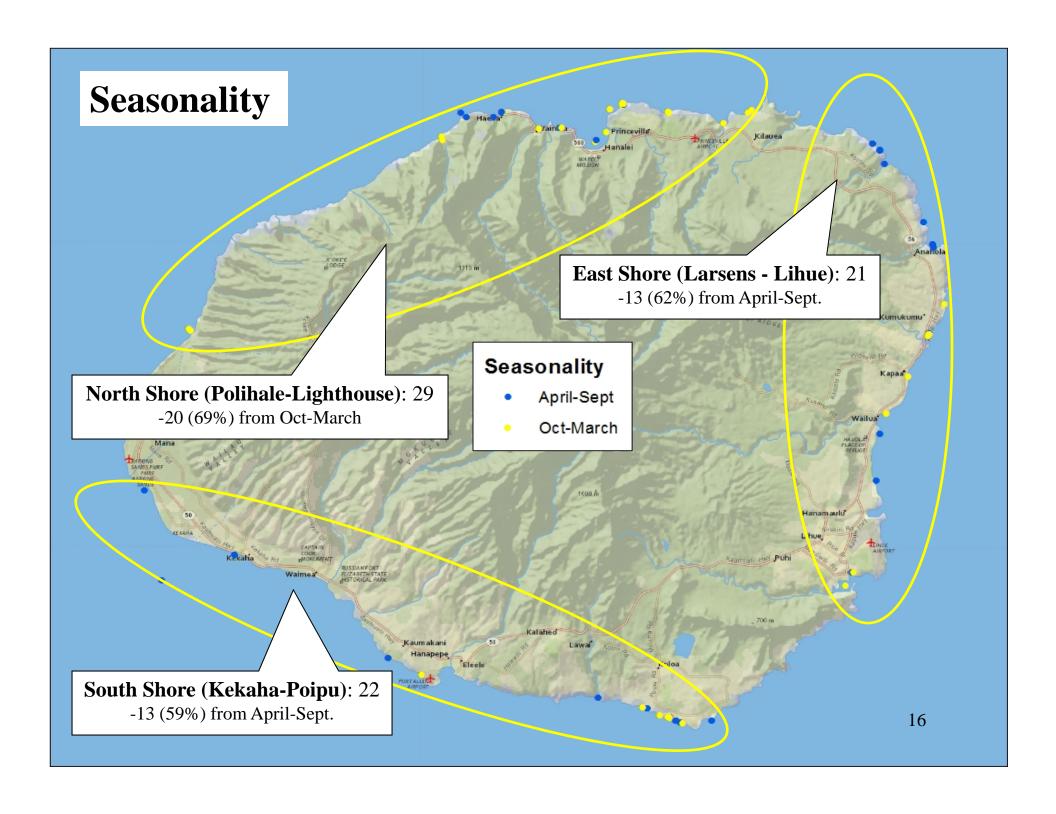
• **Summary**

- 70 total, 2 to 10 per year
- Somewhat decreasing trend
- Mostly (77%) non-residents
- Activity: Swimming (36%) and snorkeling (26%)









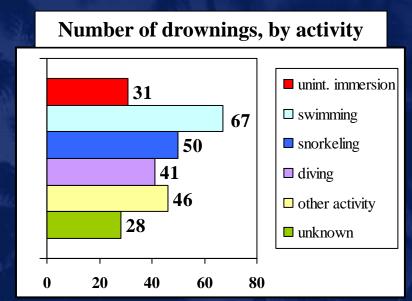
Ocean drownings on Oahu, 2003-2013

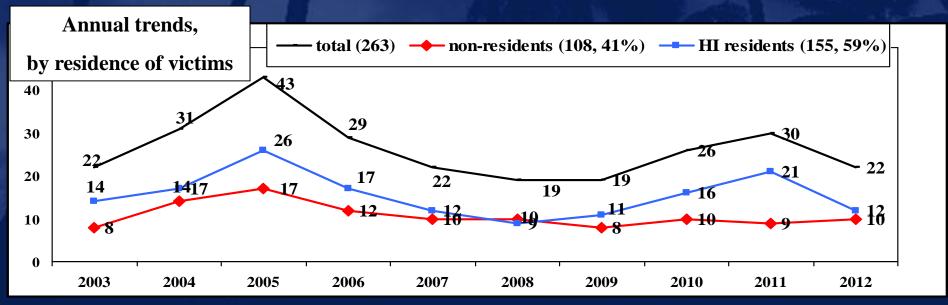
Summary

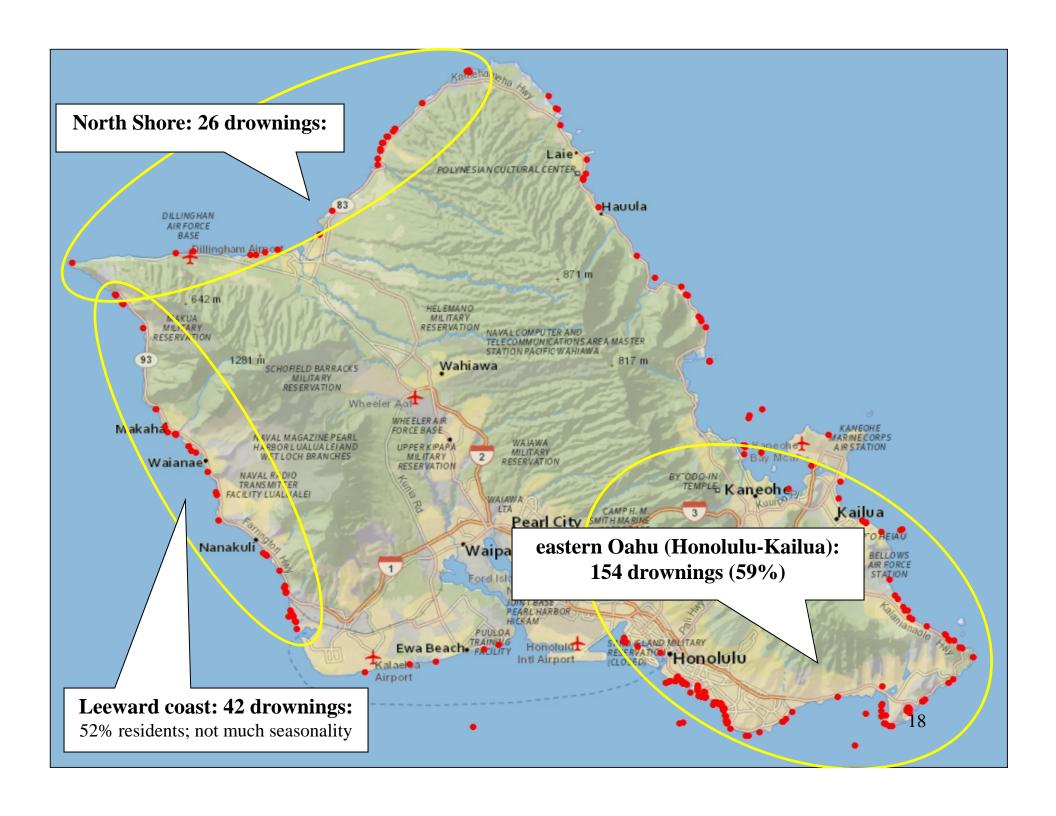
- 263 total, 19 to 43 per year
- No consistent trend
- Slightly more residents (59%)

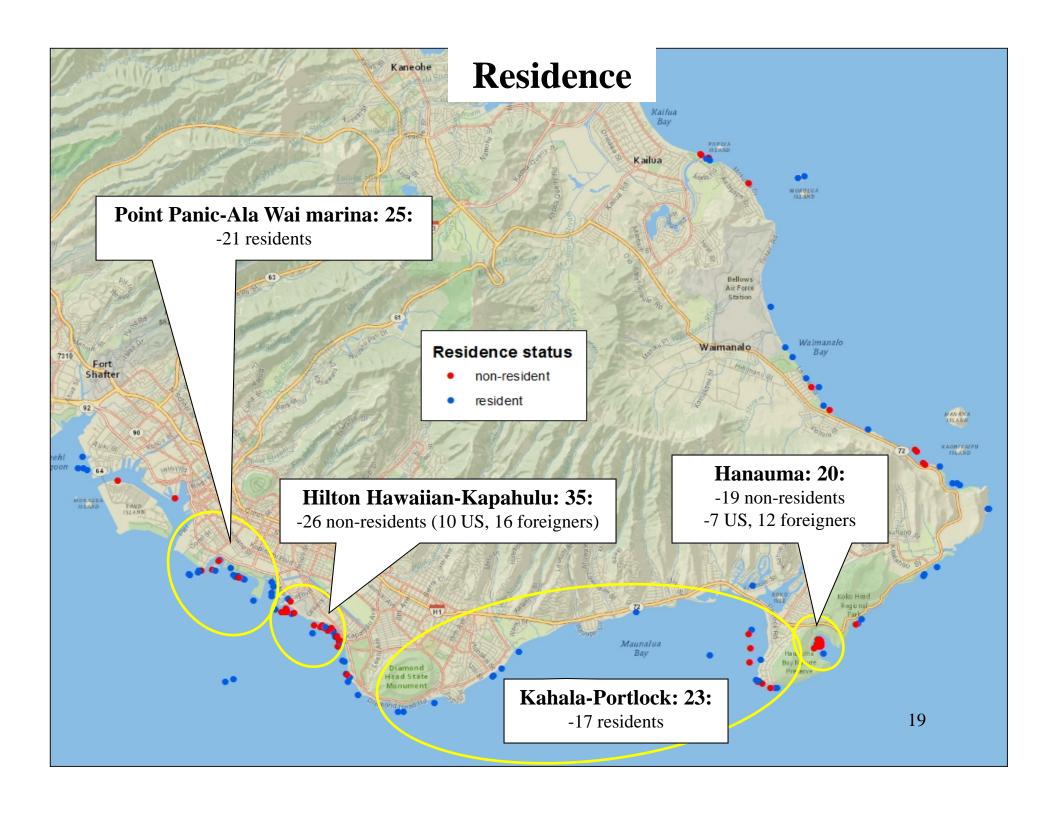
•

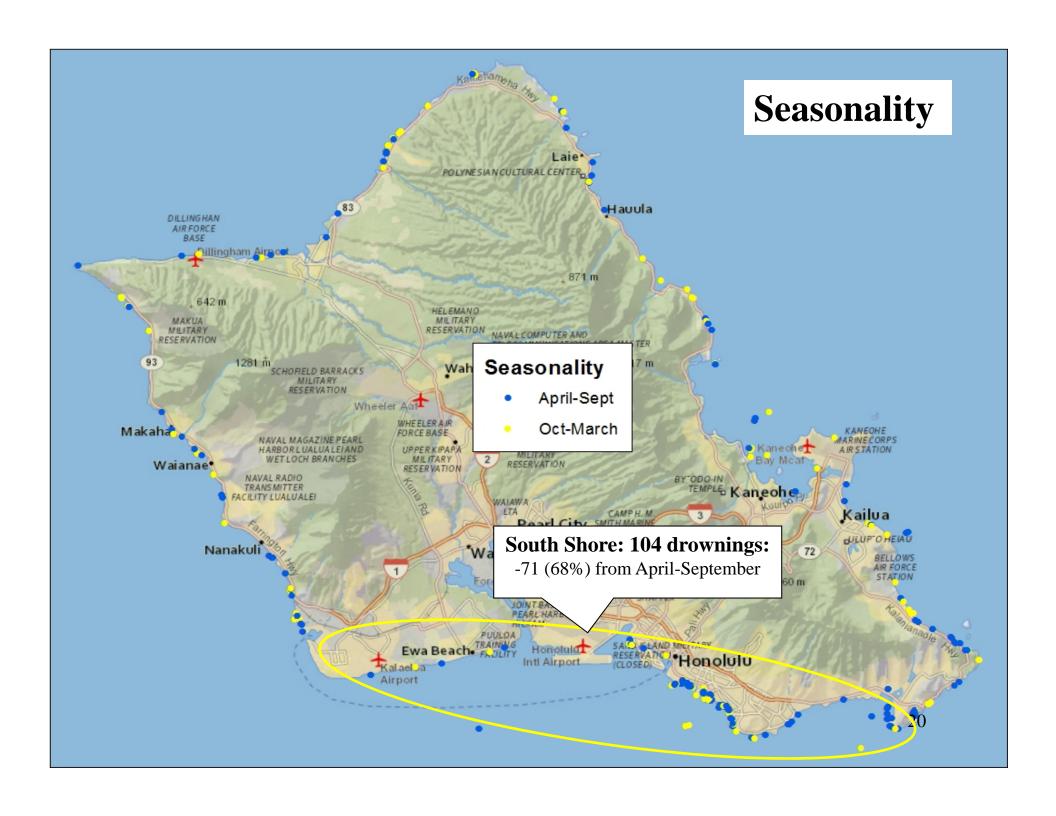
Activity: wide distribution









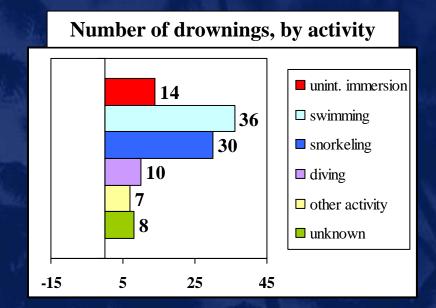


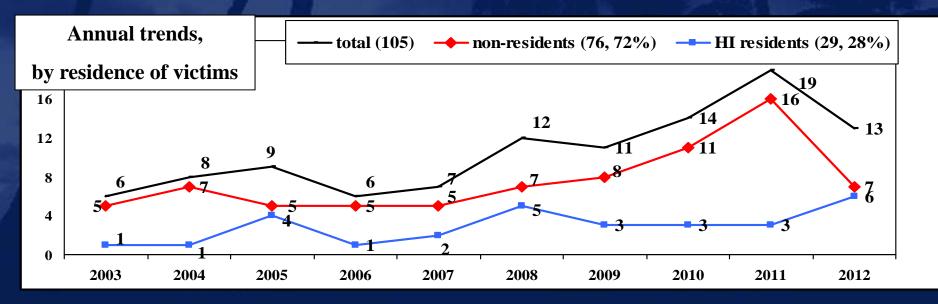
Ocean drownings on Maui County, 2003-2013

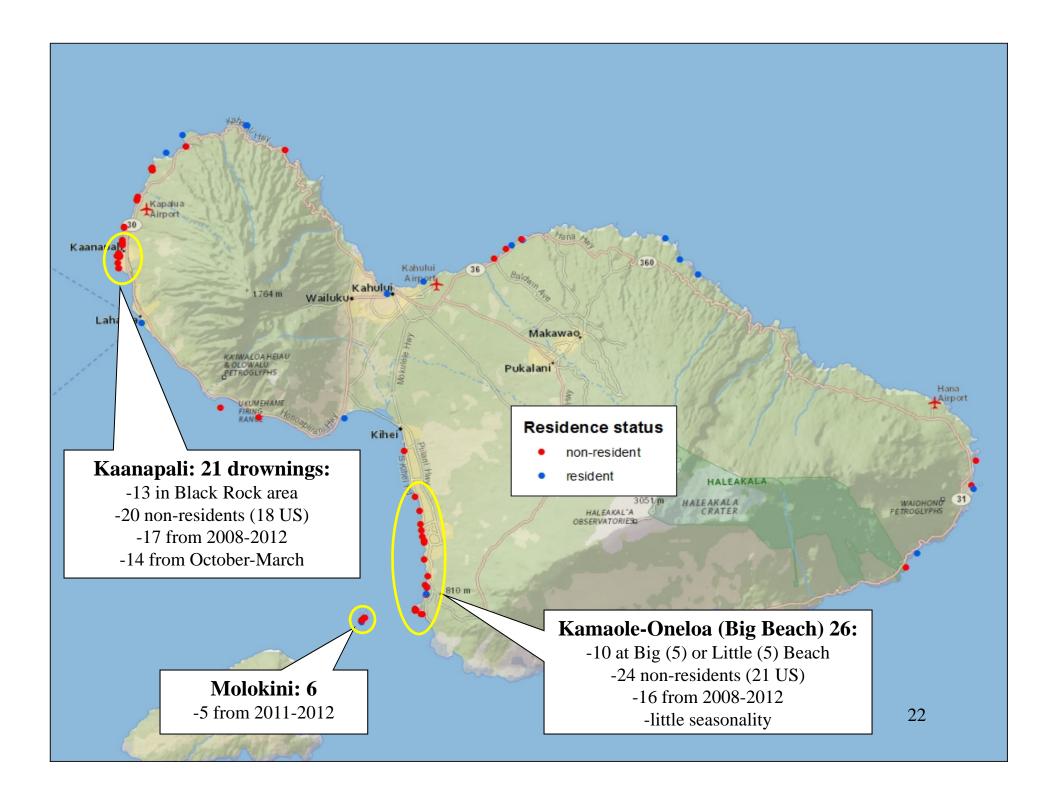
Summary

- 105 total, 6 to 19 per year

 (95 on Maui, 8 Molokai, 2 on Lanai)
- Increasing trend
- Mostly (72%) non-residents
- Activity: Swimming (34%), snorkeling (29%), and unintentional immersions (13%)



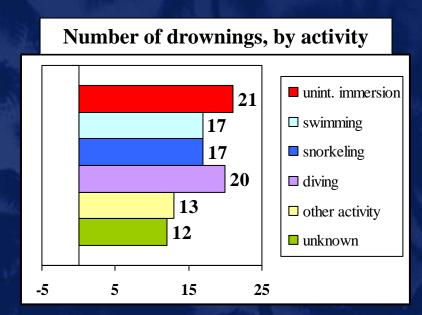


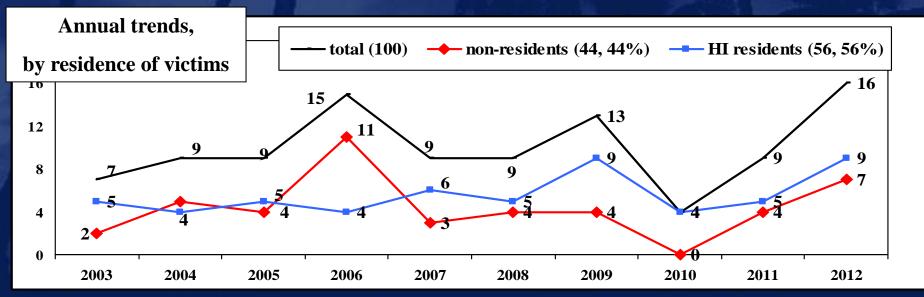


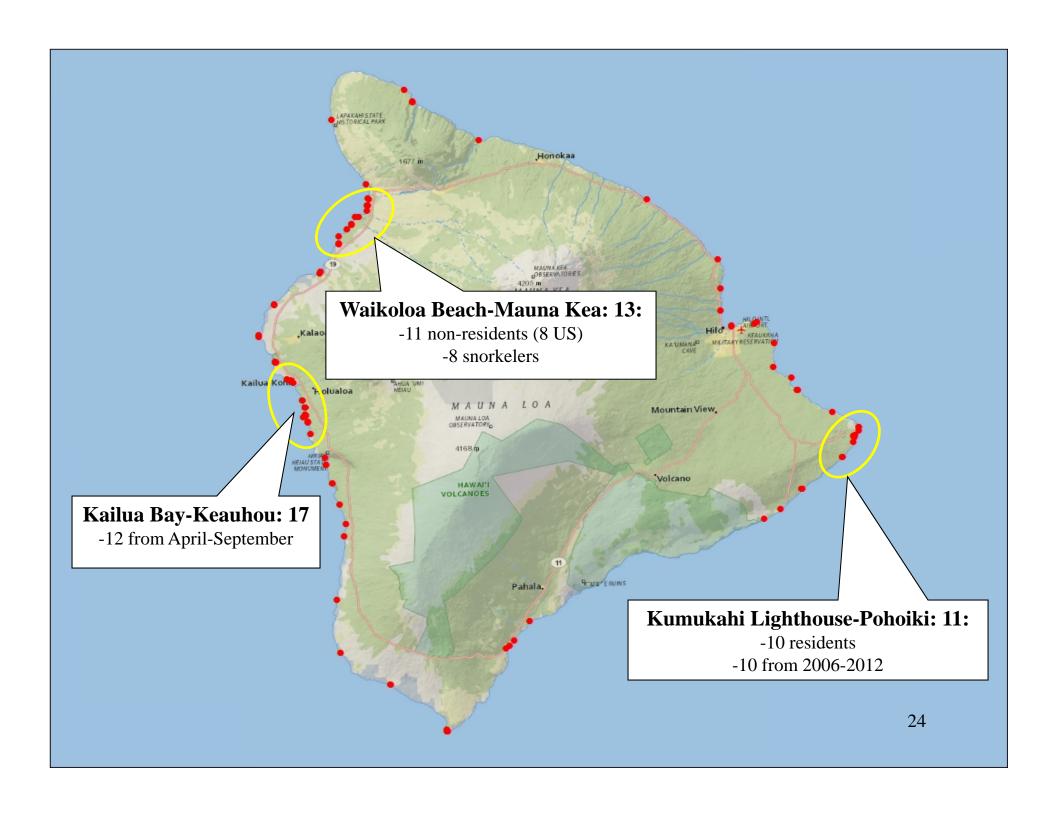
Ocean drownings on Hawaii County, 2003-2012

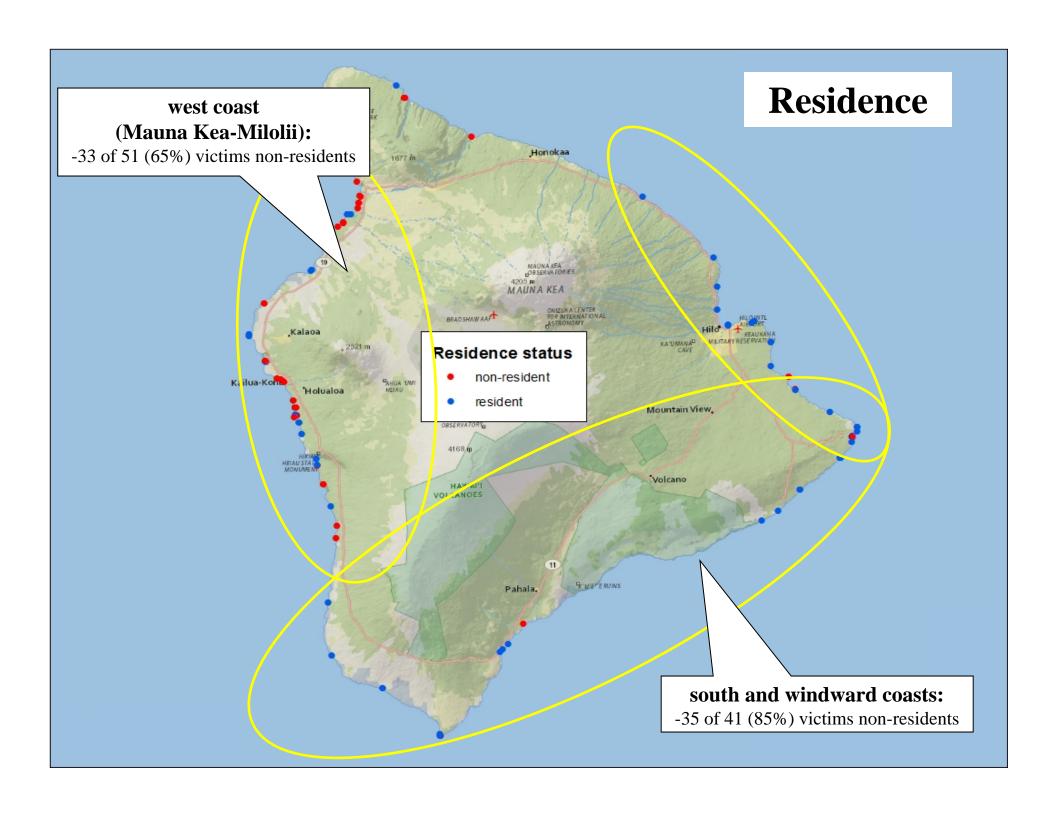
Summary

- 100 total, 4 to 16 per year
- No consistent trend
- Slightly more residents (56%)
- Activity: wide distribution









Summary

- Visitors have low risks (rates) of injury, with the exception of drowning, near-drowning and spinal cord injury
 - Comprise nearly half the drowning victims/patients
 - Mortality rates ~7 times higher, morbidity ~10 times higher
 - Comprise 77% of ocean-related SCI
 - Specific beaches on each island
- County data
 - Hawaii County highest drowning rate among residents
 - Kauai highest rate among non-residents and total
 - Descriptions (victim residence, activity, seasonality, trends) available for each county