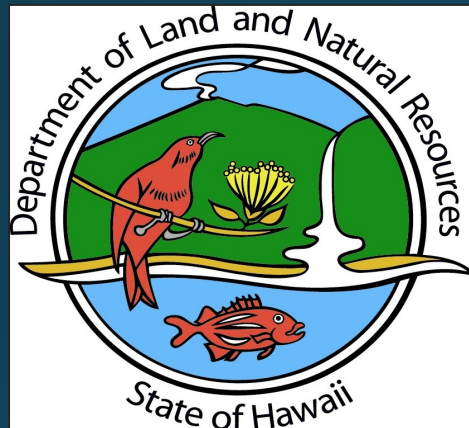# Oahu Native Ecosystem Protection and Management Section Hub Users

Jenna Masters

Oahu Natural Area reserve Specialist

Department of Land and Natural Resources

Division of Forestry and Wildlife

Native Ecosystems Protection and Management Section

About the NEPM Program

- Preserve unique ecosystem types and geological features

- Predominately work in the Natural Area Reserves Systems

- Mission also encompasses working in ecosystems with high conservation value

  - Presence of rare and endangered species

  - Unique ecosystems

  - Native habitat/ communities

Larva of Kamehameha butterfly *Vanessa tameamea*

Boardwalk on Kaala NAR

Volunteers outplant endangered *Lobelia hypoleuca* in the Kaala NAR

Angiopteris evecta (AngEve)

- Species of concern for high priority conservation areas

- Massive staff and collaborative effort in Kaluanui NAR and Poamoho

- Populations on Oahu's state managed land have not been mapped.

- Minimal management across priority areas because lack of staff or lower priority on task list

NEPM staff showcasing AngEve along Poamoho Road

AngEve Specialized Volunteer Project

- Train volunteers to do specialized resource management work

- Allow them to track and record data for our program
  - Herbicide used or treated plants
  - Population information
    - Mature vs Immature
  - GIS Point location

Kits provided for specialized volunteers
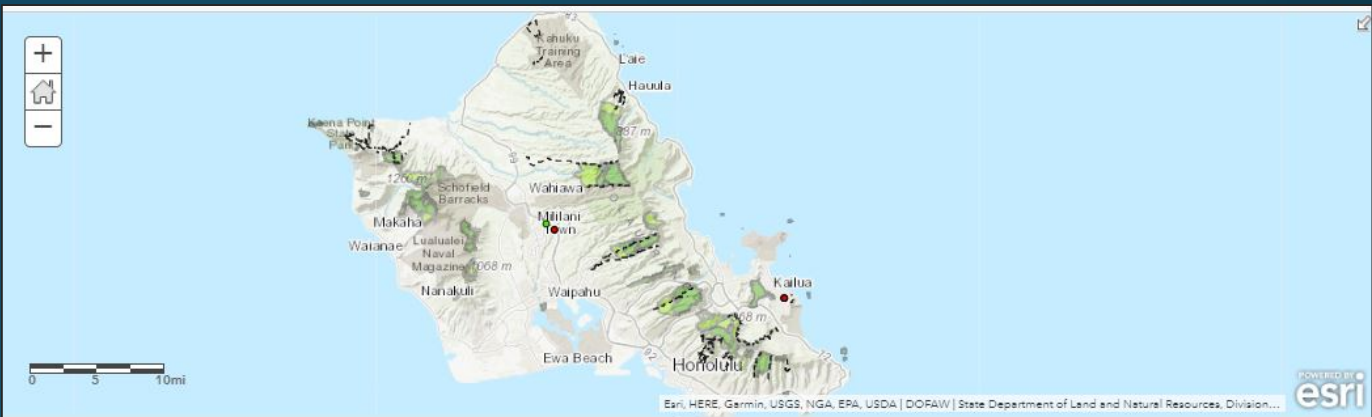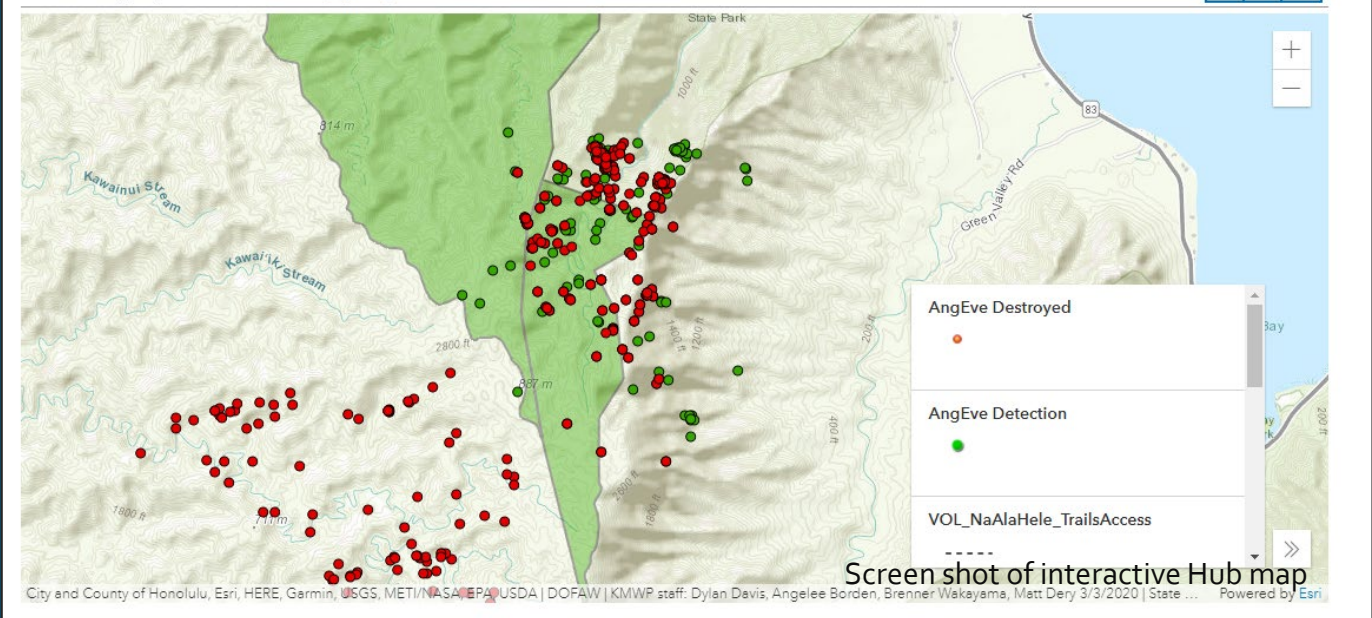

Control of AngEve with handsaw

Staff demonstrating Personal Protective Equipment for herbicide application

Goals for Project

- Keep all relevant information in the same place

- Enable volunteer to record data needed

- Decrease time for staff data entry

- Empower people to help mange resources in their area.

- Engage in landscape level efforts

Screen shot of interactive Hub map

Screen shot of attribute table for AngEve detection layer

Why the Hub?

- Already using many ESRI products
  - Arc Collector
  - Survey 123
  - Arc GIS online and desktop versions
  - Story Maps
  - Dashboards
- The hub compatible with this products and many more
  - PDFs
  - Image files
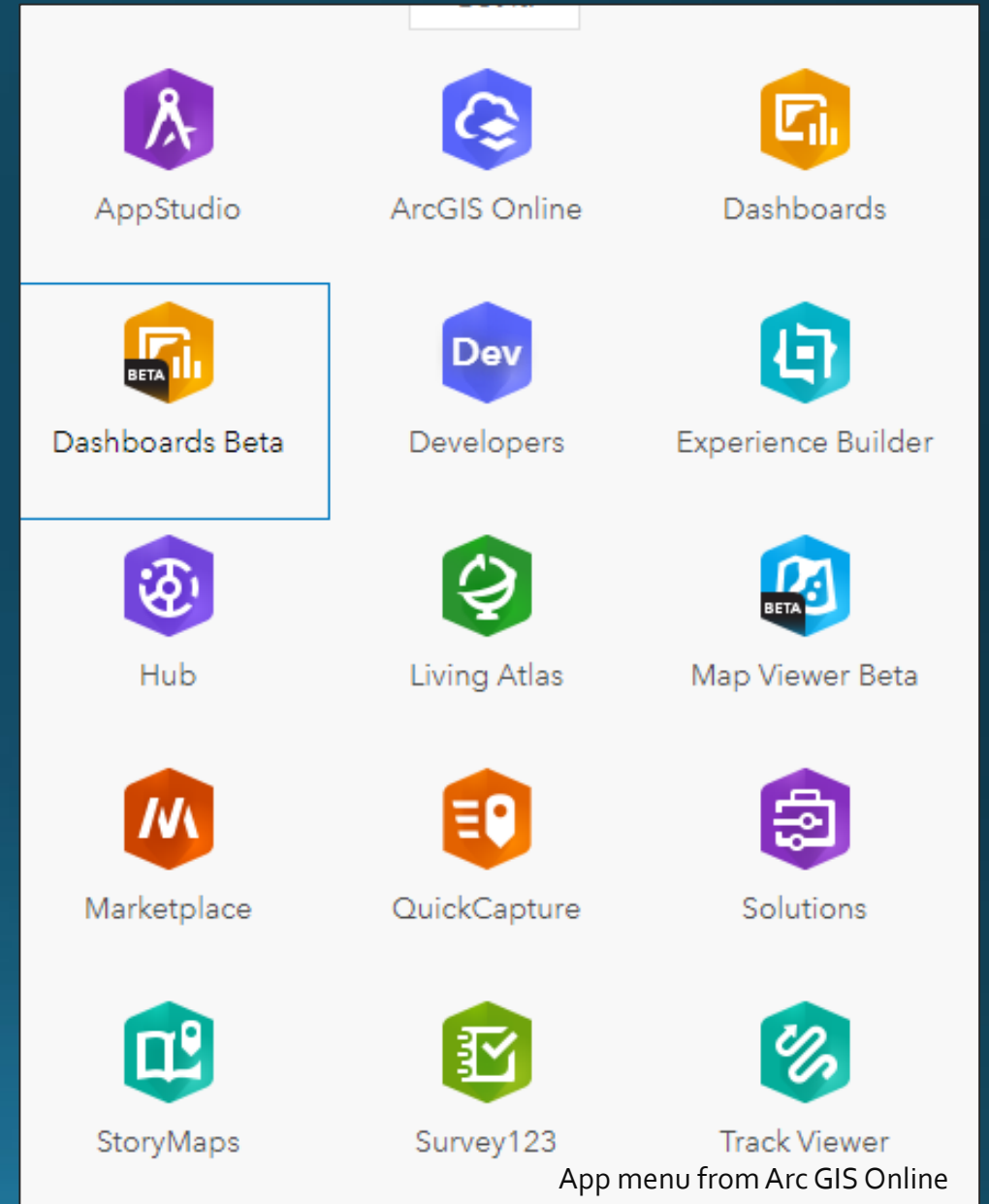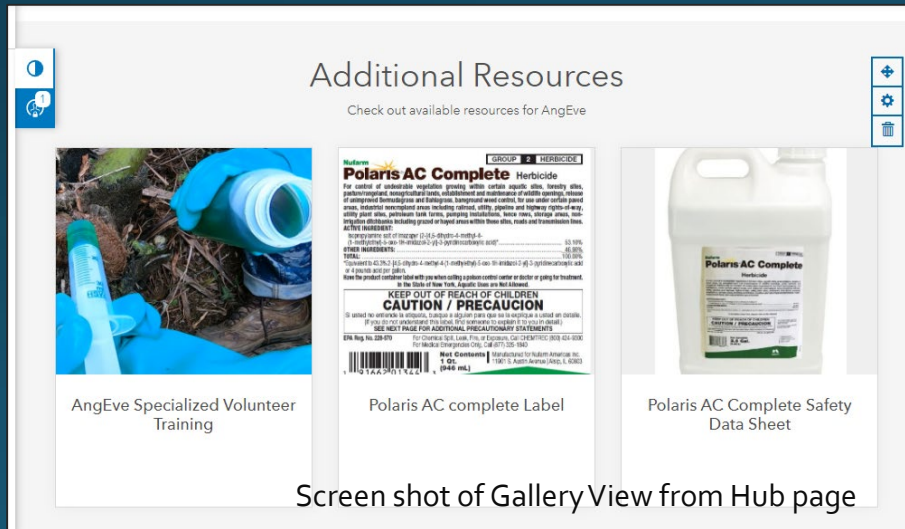
Screen shot of Gallery View from Hub page

App menu from Arc GIS Online

How the Hub is different from other technologies

- Ability to use crowd sourcing
- Unique user Identity for tracking
- Can house all information in one location

Screen shot of user profile

Why The Hub vs Other Technologies?

- We are just learning basic
- Can expand to other initiative and use additional features like
    - Newsletters
    - Updates
    - Buttons and widgets

Other Projects on the Horizon

- More initiatives linked to central NEPM hub page

- Information sharing and collaboration with partner organizations

- More specialized volunteer projects
  - Adopt a Forest
  - Volunteer trip leaders

NEPM staff in Kaala NAR