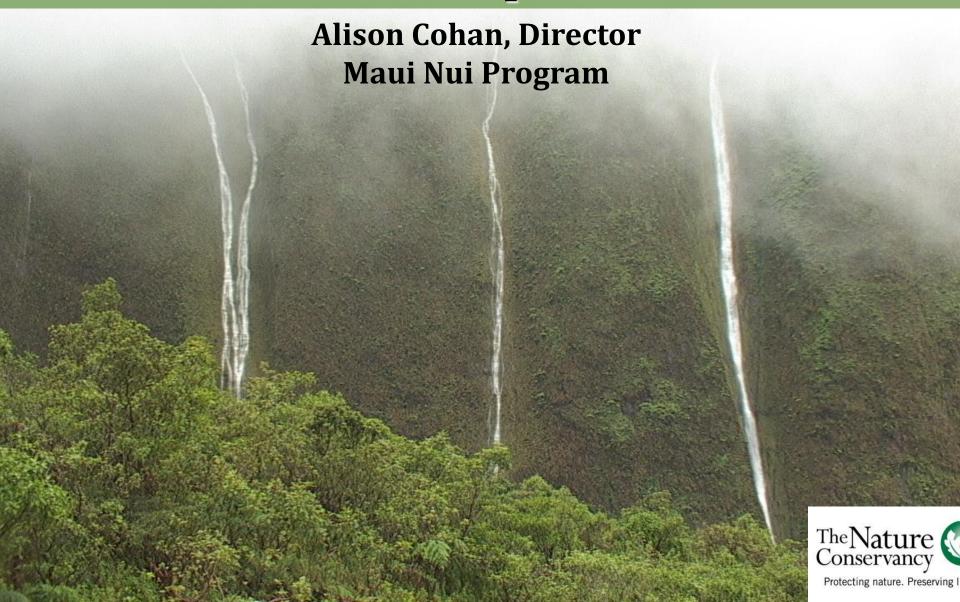
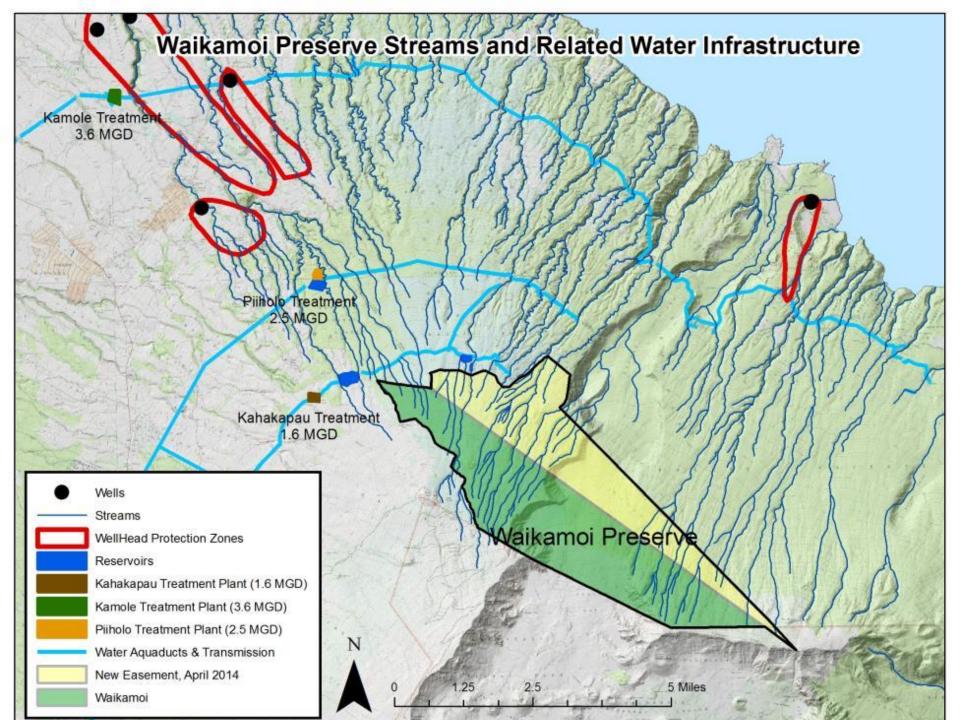
## Watershed Protection Grants TNC's Waikamoi & Kapunakea Preserves

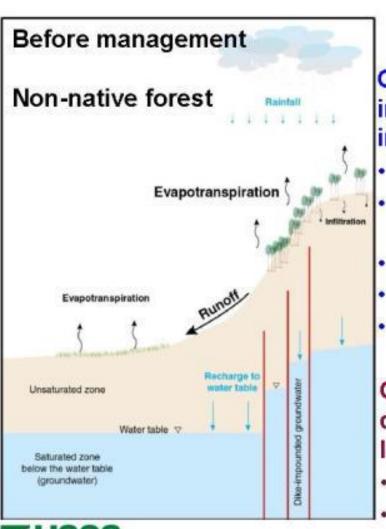








# Watershed Management & Restoration Projects May Affect Several Hydrologic Processes

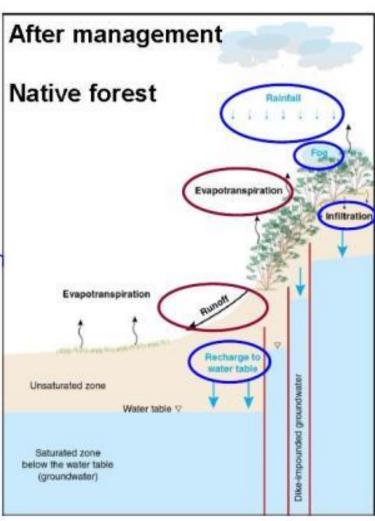


Goal is to increase or improve:

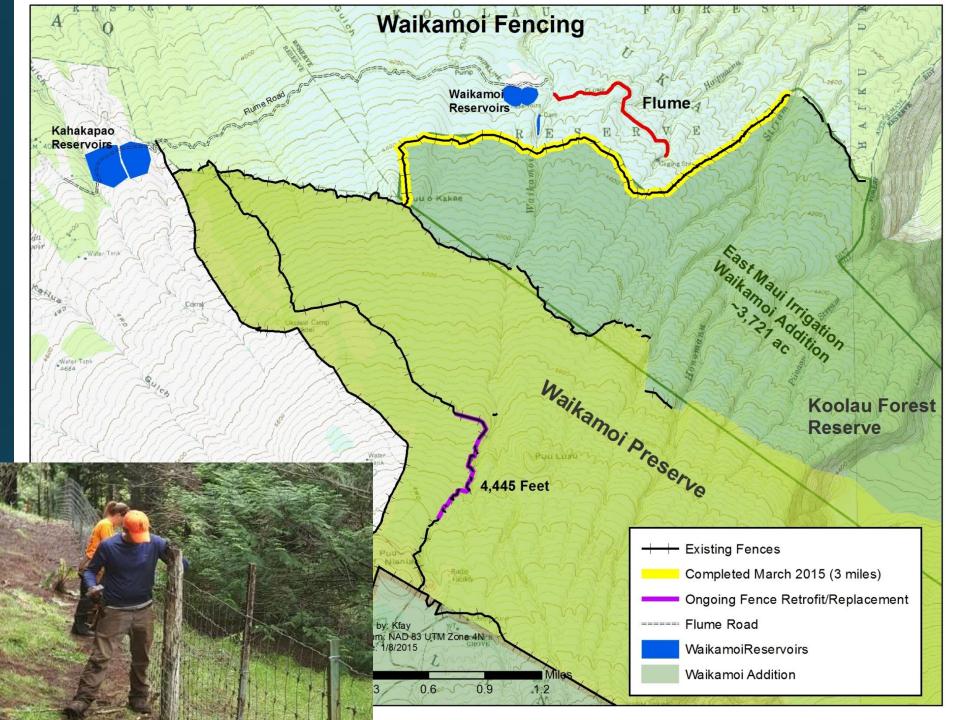
- Rainfall
- Cloud-water interception
- Net precipitation
- Infiltration
- Groundwater recharge

Goal is to decrease or lessen:

- Storm runoff
- Evapotranspiration





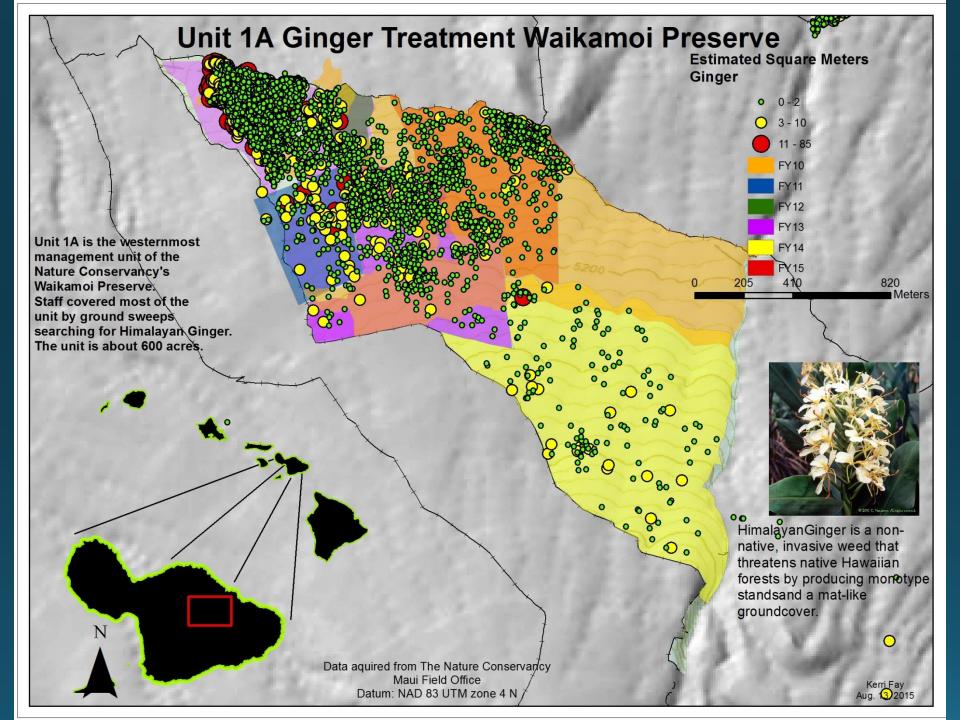






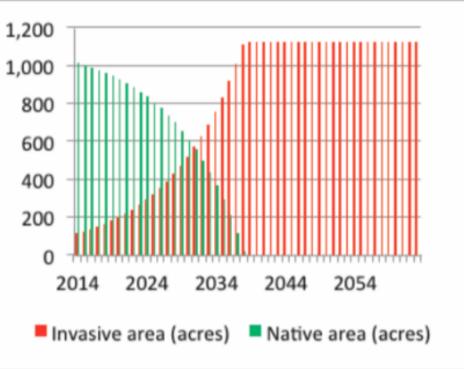


Himalayan ginger (Hedychium gardernerium)





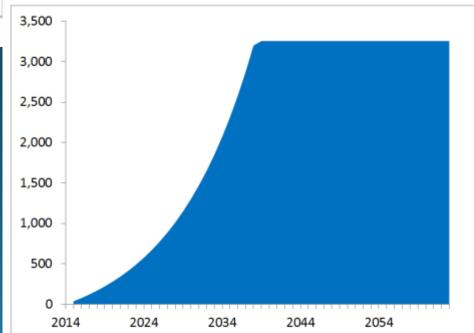




Kaiholena (Ka'ū)

Projected changes in landcover over time in Kaiholena, Hawaii island if current watershed conservation activities ceased. From Burnett et al. 2014 (UHERO).

#### Kaiholena Avoided ET Loss/Recharge Gain (thousands of gallons)

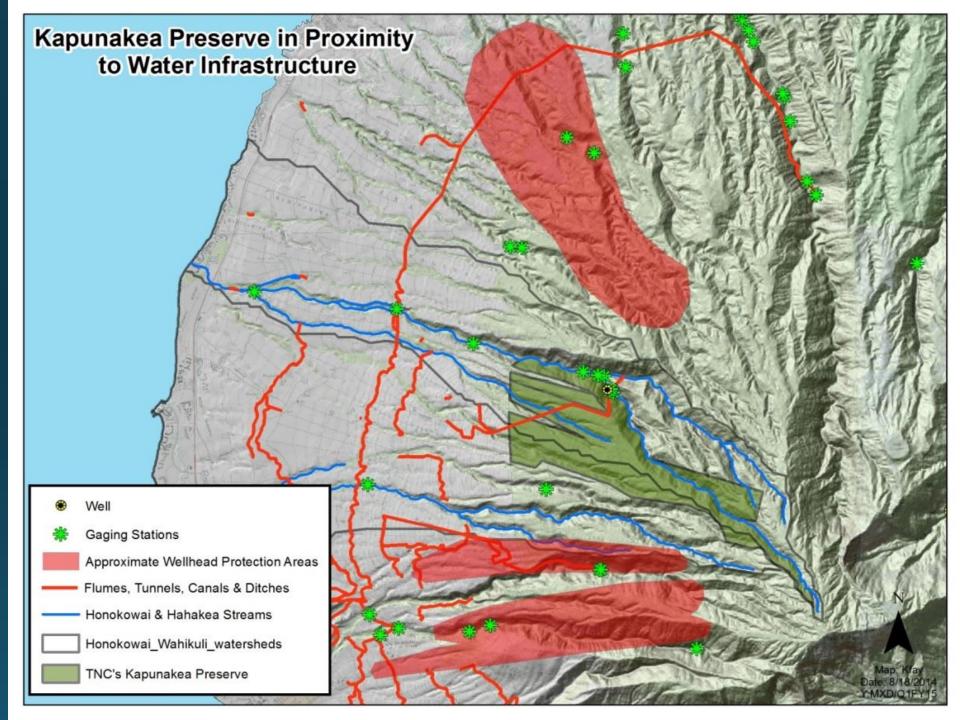


Watershed conservation return on investment analysis, depicting groundwater recharge benefits (freshwater volume) generated from conservation activities at Kaiholena, Hawaii Island. From Burnett and Wada 2015 (UHERO).



# Kapunakea Preserve





Major stream headwaters protected Improved groundwater recharge ability **Endangered species recovery Climate change adaptation Community engagement & awareness Leveraged funds** Quantifiable return on investment of watershed management

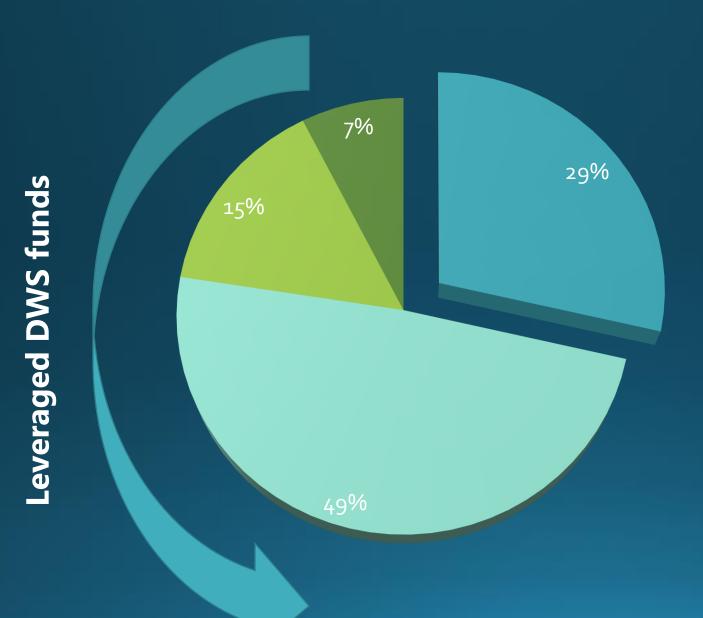
# ~~ Mahalo ~~





### **Questions?**

Come join us on a hike into Waikamoi!



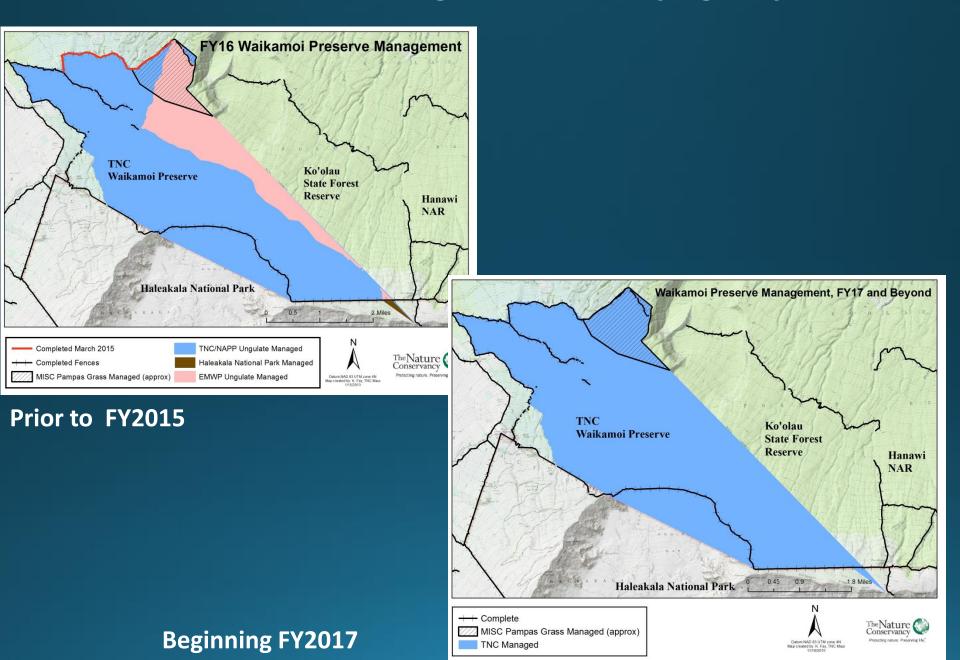
DWS

■ State

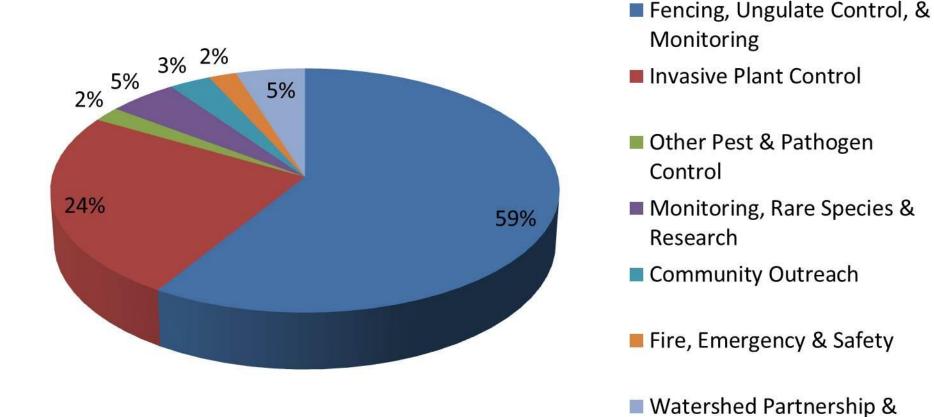
■ Federal

Private

#### Historical vs. FY2017 management lead by agency and area



#### Waikamoi Preserve Approximate Budget Allocations



**Invasive Species Committee**