

HAWAIIAN HOMES COMMISSION , DEPARTMENT OF HAWAIIAN HOME LANDS

## **G-5**

#### Update on Climate Change Impacts Affecting Hawaiian Home Lands, Statewide

March 20-21, 2023

DEPARTMENT OF HAWAIIAN HOME LANDS – PLANNING OFFICE

#### Update by DHHL staff on

- Molokai climate change vulnerabilities
- Current DHHL climate change-related projects
- Presentation by Amy Wirts, Coastal Lands Program Coordinator at University of Hawaii Sea Grant College Program
  - Climate Change & SLR update, anticipated impacts to Hawai'i and mitigation and adaptation measures

# Molokai Climate Change Vulnerabilities

- Sea Level Rise-related impacts
  - Accelerated/Episodic
    Shoreline Erosion
  - Groundwater upwelling/reemergent springs & wetlands
- Heavy rain events/more frequent and worse flooding of low-lying areas
- Prolonged Drought/Wildfire/ Extreme Heat

Ten Highest Priority Road Sections for Sea Level Rise

		Name	Island	Mileposts	CRESI Values	Remediation Alternatives
	1	Hauula	Oahu	22, 22.45	29, 34	Harden
	2	Мориа	Maui	14.3, 14.32, 14.43, 14.49	16, 22, 44, 22	Harden, Relocate
	3	Kaawa South	Oahu	28.38, 28.82	29, 25	Harden
	4	Waikoko	Kauai	4.11, 4.25, 4.39, 4.51	26, 30, 22, 24	Harden, Relocate
	5	Waimanalo	Oahu	5.93, 6, 6.19	30, 28, 26	Relocation, Harden
TA	6	Kaluaaha	Molokai	14.7	37	Relocate, Elevate
	7	Pukoo	Molokai	16.27	37	Relocate, Elevate
	8	Kaawa to Kahana	Oahu	27.25, 27.79	29, 21	Harden
	9	Kualoa	Oahu	30.54	28	Harden, Relocate
	10	Kualoa to Kaawa	Oahu	29.71	26	Harden, Relocate



## **Molokai Climate Change Vulnerabilities**



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by mapping participants. Regular, ongoing maintenance of vegetation is critical to effectively

reduce wildfire hazard

hawaiiwildfire.org

## **DHHL Climate Change-Related Projects**

#### What We Can Do -- Ho'omākaukau

- Begin Implementation of SM-SEMP (PLO & LDD)
- Begin Community Outreach for DHHL Community Resilience Plan (PLO)
- Coordinate with County of Maui on implementation of Molokai Climate Change and Sea Level Adaptation and Resiliency plan (CCSLAR)
- Molokai Drainage Study (LDD)
- Employ Land Management BMP's to reduce wildfire hazard (HSD, LMD, Co. of Maui)

# Links to More Info on Climate Change

- NOAA State Climate Summary 2022 for Hawai'i: statesummaries.ncics.org/chapter/hi/
- Civil Beat's Hawai'i Climate Change 2040 Series: <u>www.civilbeat.org/hawaii-2040</u>
- Hawai'i Wildfire and Drought Info: <a href="http://www.hawaiiwildfire.org">www.hawaiiwildfire.org</a>
- State of Hawai'i Climate Change Portal: <u>climate.hawaii.gov</u>
- County of Maui's Office of Climate Change, Resiliency and Sustainability (CCRS): <u>www.mauicounty.gov/142/Office-of-</u> <u>Climate-Change-Resiliency-and-</u>

Presentation by Amy Wirts, Coastal Lands Program Coordinator at University of Hawaii Sea Grant College Program

- Amy serves as the Coastal Lands Program Coordinator with Hawai'i Sea Grant and the Department of Land and Natural Resources (DLNR), Office of Conservation and Coastal Lands (OCCL).
- Her role as a Sea Grant Extension Agent is to provide scientific and policy support and program coordination support to the OCCL on issues including improved understanding of coastal processes, mitigation of coastal erosion and other coastal hazards, beach conservation and restoration, appropriate coastal land use, environmental document and regulatory permit reviews, and coastal management policy compliance and development, including interagency and public engagement.





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