

Urban & Community Forestry Program









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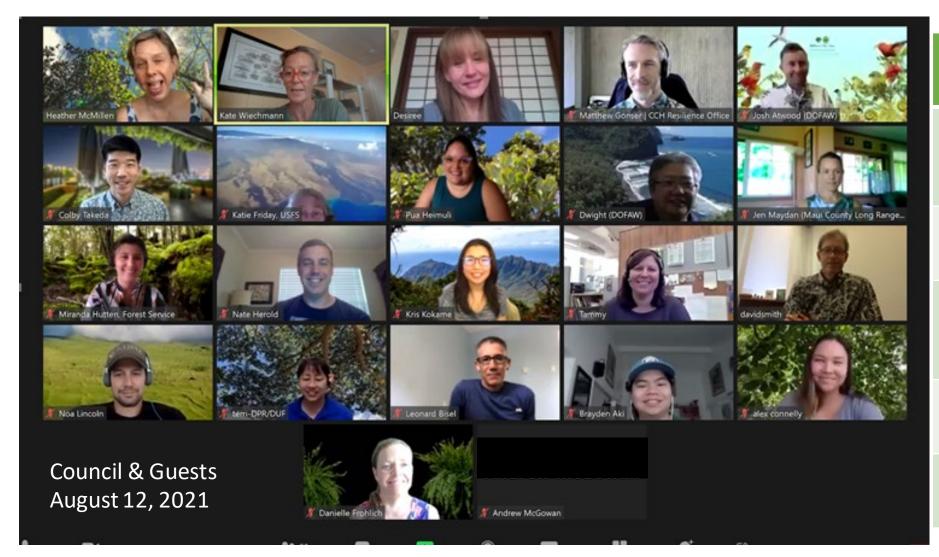
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Kaulunani Advisory Council



Committees

Policy & Ordinances

Grants & Awards

Outreach & Education

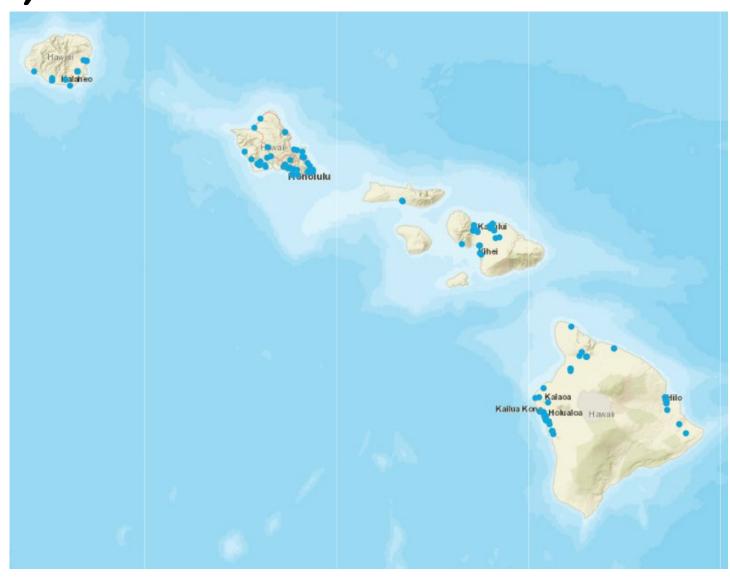
Invasive Species

Diversity & Equity

Trees Planted: 11,164

149 Projects





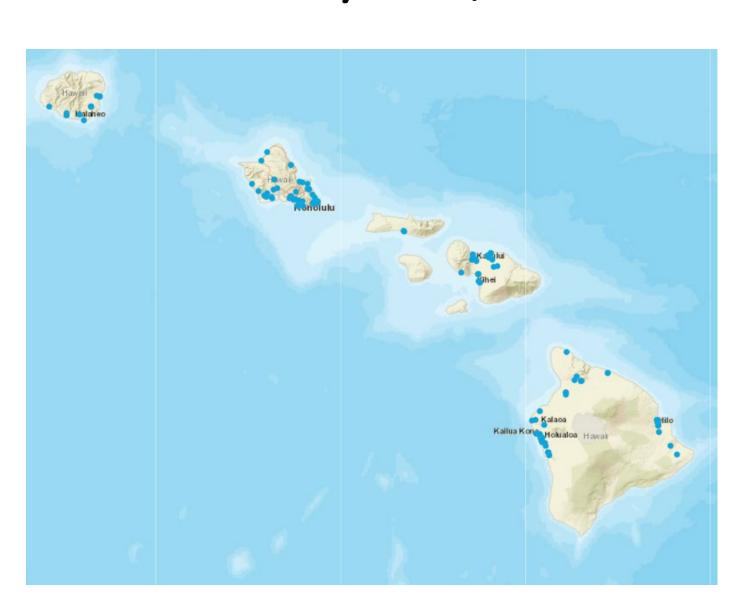
Healthy Climate Communities, Kailua, Oʻahu

Trees Distributed for Arbor Day: 90,606

85 Projects



Maui Nui Botanical Gardens



Capacity Building

Education & Outreach 104 Projects

Technical Tools 12 Projects





Forest Bathing / Green Walks

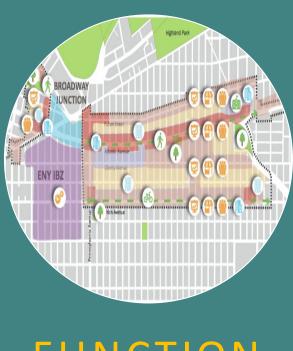
Chainsaw Safety Training



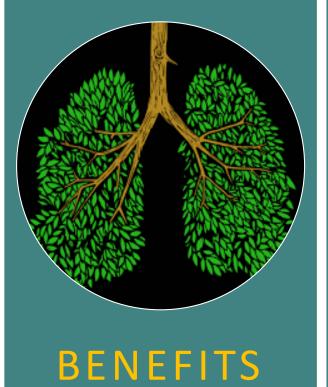




STRUCTURE



FUNCTION





VALUE

Citizen Forester Report

Kailua Eco-Benefits



5,548,210 Gallons Runoff Prevention



6,721 lbs Pollutants removed



1,116,250 lbs Carbon Stored



596,462 lbs Carbon Sequestered



589,003 lbs Carbon Avoided



3,155 Therms Heat Prevention

Now we know there are 5,664 Kailua city trees.





Urban Tree Inventory

Creating Hawaii's first urban tree inventory

Sense of Community

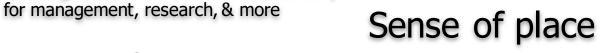
Allowing like-minded individuals to form a community, all working towards a common goal.

Growing Trees

Allowing for new programs that will start planting and maintaining more trees in our communities.

Increasing Knowledge

Volunteers are being formally trained and certified as citizen foresters. Community members are seeking opportunities to gain environmental knowledge.



Allowing citizens to gain a sense of place in their community. People become familiar with their environment.

Growing Awareness

Creating advocates that speak on behalf of our trees and beyond. The larger community is becoming aware of the importance of our urban forests.

Increasing Stewardship

This program, focused on urban trees, is a gateway to holistic environmental stewardship and careers.









TREES PROVIDE WILDLIFE HABITAT.



TREES REDUCE URBAN HEAT.





TREES CREATE
SHADE & LESSEN
COOLING COSTS.



TREES HELP SLOW TRAFFIC.



TREES
INCREASE
BUSINESS
TRAFFIC
& INCOME

TREES HELP REDUCE CRIME.

REES TREES INCREASE PROPERTY VALUES

REDUCE SOIL EROSION.

TREES OFFER PROTECTION FROM RAIN.



TREES
HELP
US FEEL
STRONGER

& LIVE Longer.

Images by California ReLeaf

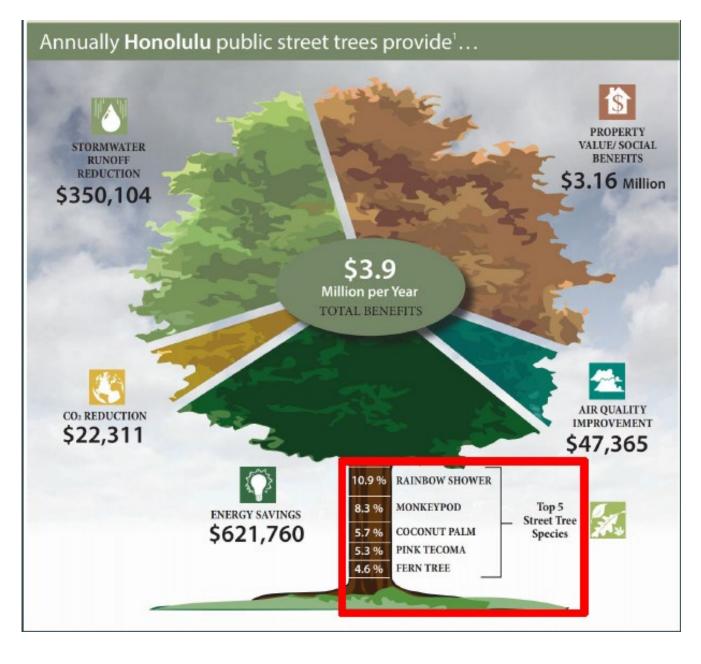
TREES PROVIDE WIND BREAKS.

TREES PROVIDE PRIVACY.

Trees are Infrastructure

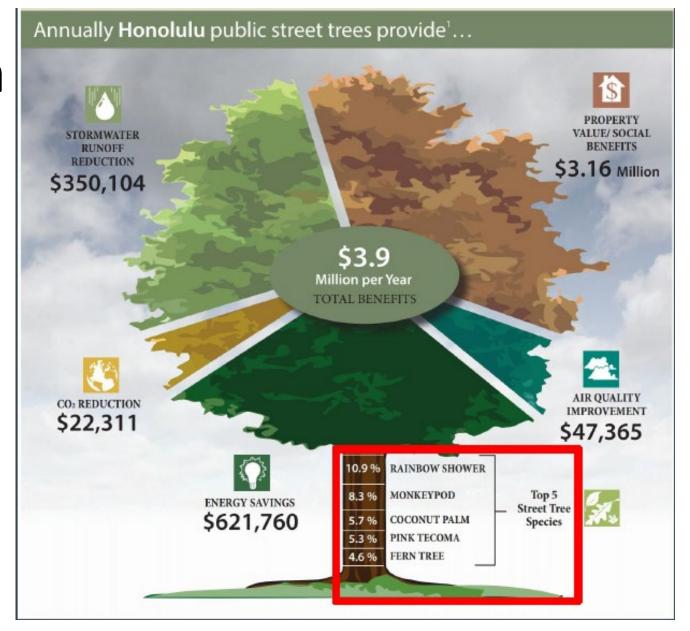
\$1 paid to maintain trees

\$3 return on investment



Policy Recommendation

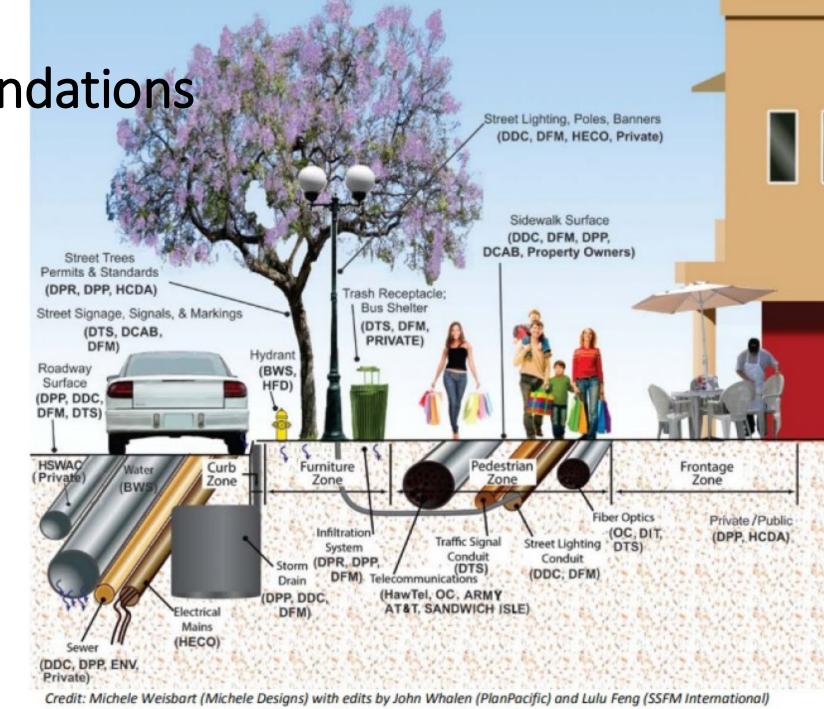
Recognize Trees as Infrastructure



Policy Recommendations

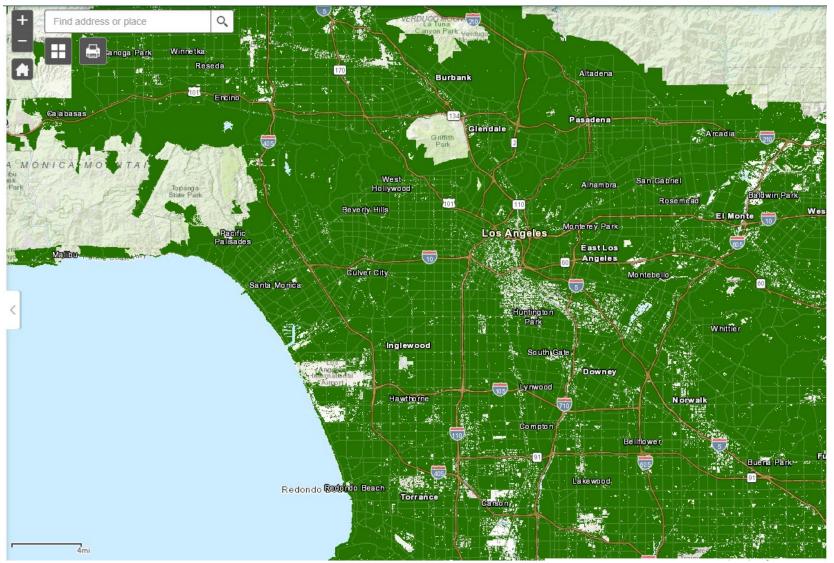
- Consolidated tree ordinance
- Enforce existing ordinances
- Update specs for tree planting

For More Info See: https://dlnr.hawaii.gov/forestry/lap/kaulunani/resources/



Tree Canopy Viewer

California Urban
Tree Canopy cover



See: https://www.fs.usda.gov/detailfull/r5/communityforests/?cid=fseprd647442&width=full

Legend

Percent canopy cover 2018

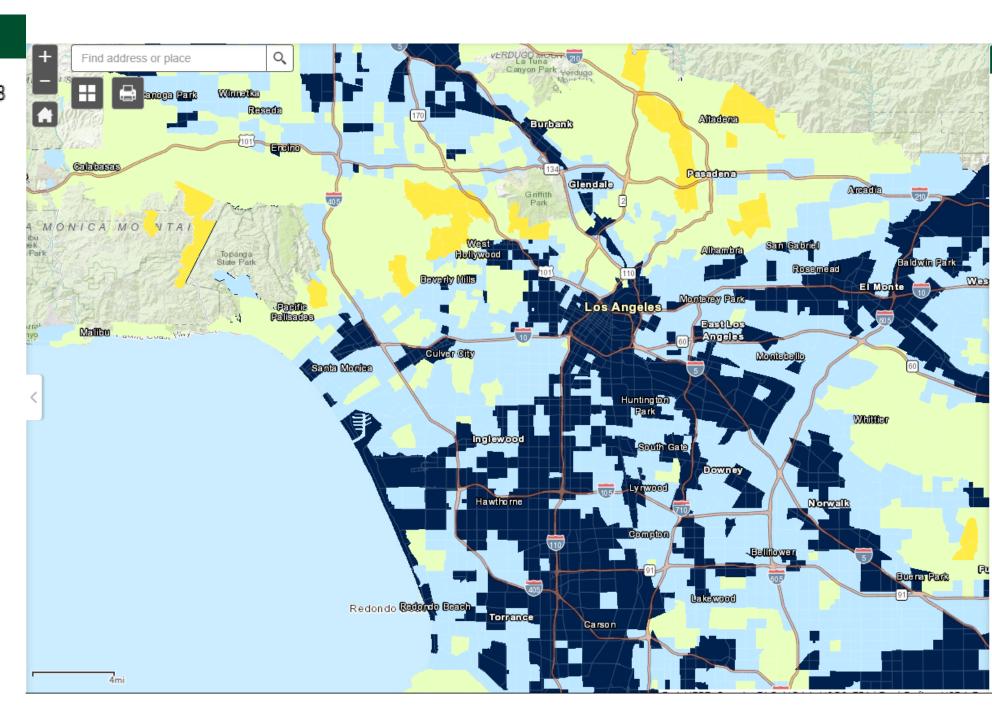
Percent canopy cover

42-86

25-41

15-24

0-14



Legend

Percent canopy cover 2018

Percent canopy cover

25-41

15-24

42-86

Layers

Neighborhoods and roads

▶ Urban area boundaries

CA census tracts

▶ ✓ Percent canopy cover 2018

▶ Urban canopy 2018

Population size 2010

▼ ✓ Poverty incidence

Percentile of poverty incidence among census

Asthma incidence

Percentile of asthma incidence among census

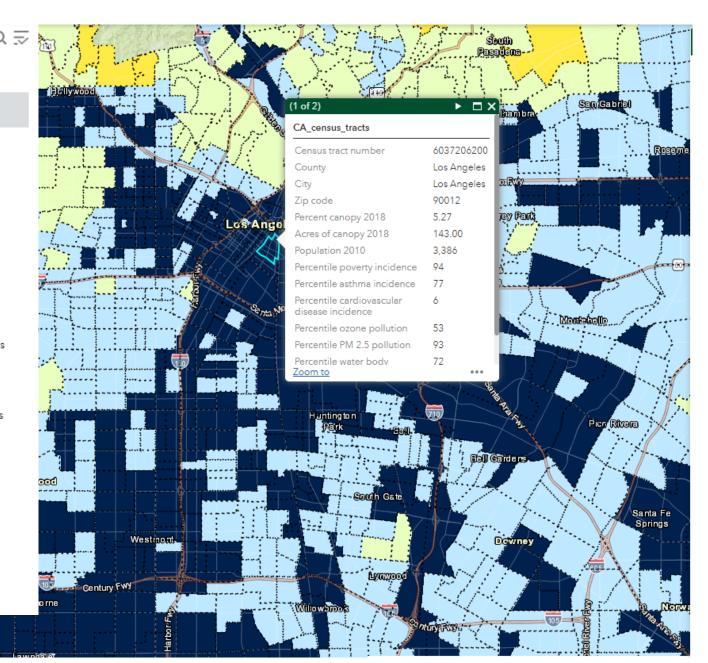
▶ ✓ Cardiovascular disease incidence

Dzone pollution

▶ PM 2.5 pollution

▶ Water body impairment

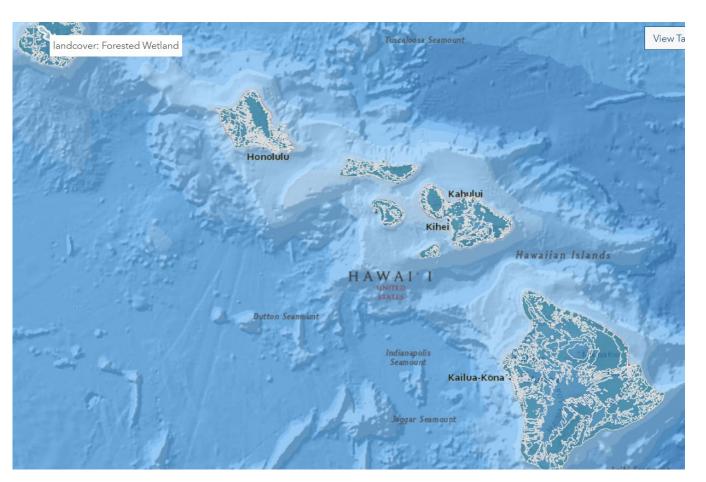
Urban Heat Island Index



Hawai'i Tree Canopy Viewer - Coming 2022!

- Canopy cover
- Impervious surfaces
- Sociodemographic data
- Environmental justice indicators

THEN we can assess:
Ecosystem Services
Carbon Sequestration,
etc



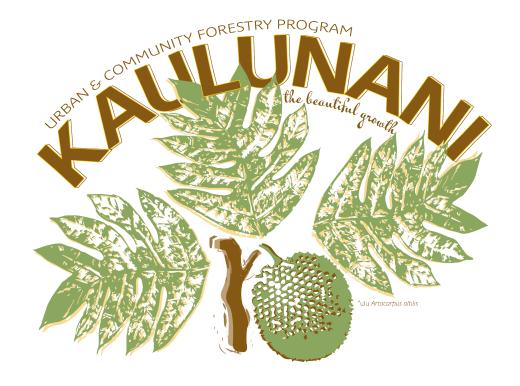






Mahalo

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Irene Sprecher, Forest Solutions
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