

DAVID Y. IGE
GOVERNOR OF
HAWAII



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES**

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**Testimony of
SUZANNE D. CASE
Chairperson**

**Before the Senate Committee on
WATER AND LAND**

**Wednesday, March 24, 2021
1:00 PM**

State Capitol, Via Videoconference, Conference Room 229

**In consideration of
HOUSE BILL 863, HOUSE DRAFT 2
RELATING TO FORESTRY**

House Bill 863, House Draft 2 proposes to authorize general obligation bonds for the Forest Stewardship Program of the Department of Land and Natural Resources to increase plant stock, invest in public outreach, and renovate the equipment and facilities of the state tree nurseries. **The Department of Land and Natural Resources (Department) supports this measure provided that its passage does not replace or adversely impact priorities indicated in the Executive Biennium Budget request.**

The Department is committed to helping Hawai'i meet its sustainability and carbon neutrality goals through landscape-scale tree planting. To meet these goals, we need clean and reliable planting stock. The Department operates a state tree nursery and multiple district nurseries servicing both public and private forestry, agriculture, and restoration projects. These nurseries specialize in plants that are difficult to find in private nurseries, are rare or endangered, and/or that need to be grown in large quantity, such as for restoration projects.

The Department's existing plant nurseries are aging and need major structural upgrades, including several completely new structures. Most are open-air, with limited enclosed greenhouse space, making it difficult to maintain sanitation (i.e., keeping the planting pots clear of weed seeds, pests and diseases). Some of our nurseries are temporary pole-tent structures, easily damaged by strong winds. Recent vandalism at one rare plant nursery demonstrates the need for security improvements.

The new plant nursery infrastructure will increase capacity for landscape-scale tree planting and carbon sequestration projects and increase program efficiency within nursery operations. The

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

M. KALEO MANUEL
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

nursery improvements will allow the Department to improve quality and output, and to scale up production so that we can continue to contribute towards the State's sustainability, agriculture, watershed, and carbon neutrality goals. The Department notes that general obligation bonds can support the planning, design and construction needs of the planned new infrastructure and related improvements to support the new nursery structures.

Thank you for the opportunity to comment on this measure.



UNIVERSITY OF HAWAII SYSTEM

Legislative Testimony

Testimony Presented Before the
Senate Committee on Water and Land
Wednesday, March 24, 2021 at 1:00 p.m.

By
Nicholas Comerford, Dean
College of Tropical Agriculture and Human Resources
University of Hawai'i at Mānoa

HB 863 HD2 – RELATING TO FORESTRY

Chair Inouye, Vice Chair Keith-Agaran, and members of the Senate Committee on Water and Land:

Thank you for the opportunity to provide testimony in support of HB 863 HD2 as it relates to the College of Tropical Agriculture and Human Resources (CTAHR).

CTAHR's Natural Resources and Environmental Management Department and the Tropical Plant and Soil Sciences Department are engaged in education, research and extension that addresses all the benefits of trees in building healthy soils; and the role of forests in maintaining and enhancing environmental quality.

We acknowledge the need for repair and upgrading of tree nurseries in the state; and the need for research and continued education about the role that individual trees and forests play in climate change and environmental quality.

This bill requires the Department of Land and Natural Resources (DNLR) to:

1. Work in collaboration with the greenhouse gas sequestration task force. CTAHR is represented on this task force and we support this approach.
2. Work in collaboration with researchers from CTAHR. CTAHR has ongoing research in the areas outlined in this bill. In fact, CTAHR acquires funding from DLNR to engage in research in a variety of relevant areas. We support the continued and fruitful collaboration that exists and look to enhancement that collaboration. We understand the value of agroforestry systems and support the approach expressed in this bill.
3. There is a clear need for continued education. CTAHR is the home of the Cooperative Extension Service and looks forward to any and all collaborations with DLNR to extend education in Extension settings.

We support this bill in its intent and in those aspects that pertain to CTAHR. However, we are aware of the current financial climate of the State of Hawai'i and realizes that state funding is reduced. For the next fiscal biennium, the University of Hawai'i Board of Regents approved a budget request for the University that was flat, and did not seek any increased funding to the University. UH defers to DLNR on their priorities.



To: The Senate Committee on Water and Land
From: Sherry Pollack, 350Hawaii.org
Date: Wednesday, March 24, 2021, 1pm

In support of HB863 HD2

Aloha Chair Inouye, Vice Chair Keith-Agaran, and members of the Water and Land Committee,

I am Co-Founder of the Hawaii chapter of 350.org, the largest international organization dedicated to fighting climate change. 350Hawaii's 6,000 members **support HB863 HD2** which would authorize the issuance of general obligation bonds for the forest stewardship program of the department of land and natural resources to build and expand facilities of the state tree nurseries.

Yet there is a need to update and expand the resources available to the state tree nurseries, including by increasing the available selections of trees and plants that provide beneficial functions in agricultural production. Therefore, we respectfully request that the original language in this measure regarding *"increase the existing plant stocks, invest in public outreach and education, along with collaboration with appropriate stakeholders to expand and increase the existing plant stocks of the state tree nurseries to include a wider range of native trees and plant species to be beneficial in agricultural settings for improving agricultural productivity and improving soil health"* be restored to this measure.

Growing trees that sequester greenhouse gases is an important strategy in our efforts to mitigate climate destabilization. We must do all we can to reduce our carbon footprint and become carbon negative as soon as possible. The planet faces an existential climate crisis. The UN IPCC report says we have less than 10 years for worldwide climate action to avoid climate catastrophe. We no longer have the luxury of taking baby-steps. If we are to solve the climate crisis, it will require all of us working together to save our precious planet.

Mahalo for the opportunity to testify in **support with the suggestion to restore the original HB863 language** to the very important legislation.

Sherry Pollack
Co-Founder, 350Hawaii.org

HB-863-HD-2

Submitted on: 3/22/2021 11:35:49 PM

Testimony for WTL on 3/24/2021 1:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ted Bohlen	Testifying for Climate Protectors Hawai'i	Support	No

Comments:

To: The Honorable Lorraine Inouye, Chair, the Honorable Senator Gilbert Keith-Agaran, Vice Chair, and Members of the Senate Committee on Water and Land.

From: CLIMATE PROTECTORS HAWAI'I (by Ted Bohlen)

Re: Hearing **HB863 HD2– RELATING TO FORESTRY**

Hearing: Wednesday March 24, 2021, 1:00 p.m., by videoconference

Aloha Chair Inouye, Vice Chair Keith-Agaran, and Water and Land Committee Members:

The Climate Protectors Hawai'i is a group focused on reversing the climate crisis and encouraging Hawai'i to lead the world towards a safe and sustainable climate and future. The Climate Protectors Hawai'i **STRONGLY SUPPORTS HB863 HD2!**

As a tropical island State, Hawai'i will be among the first places harmed by the global climate crisis, with more intense storms, loss of protective coral reefs, food insecurity, and rising sea levels destroying our shorelines. We must do all we can to reduce our carbon footprint and become carbon negative as soon as possible. The planet faces an existential climate crisis and we must act now! The IPCC (Intergovernmental Panel on Climate Change) says we have less than 10 years for worldwide climate action to avoid climate catastrophe. If we are to solve the climate crisis, it will require all of us working together. Hawai'i can and should be a leader in showing the world the way forward towards a safe and sustainable climate and future. The sooner we inspire others to take action and lead by example, the better off the future will be for our children.

Trees, plants and soil are part of the solution to heal what ails our planet. They help sequester greenhouse gases, they improve our air quality, they preserve water, and they have an important function in improving soil health and building climate resiliency for Hawaii's environment, including its agricultural landscapes. The Natural Resources Conservation Service, a division of the United States Department of Agriculture, has identified agroforestry as a unique land management approach that intentionally blends

agriculture and forestry to enhance productivity, profitability, and environmental stewardship.

In the past Hawai'i protected trees, but our forests and facilities have fallen into disrepair. Bringing together stakeholders from the greenhouse gas sequestration task force, researchers from the UH College of Tropical Agriculture and Human Resources (CTAHR) and the US Dept of Agriculture National Resource Conservation Service can maximize the positive effects trees can have on Hawaii's climate and environment.

HB863 HD2 would authorize the issuance of general obligation bonds for the forest stewardship program to build and expand facilities of the state tree nurseries. The various tree nurseries across the State are in need of facilities and improvements that include greenhouses, irrigation, water catchment, and other infrastructure. The authorization and appropriation of general obligation bond funds for the Forest Stewardship Program will support stewardship, enhancement, conservation, and restoration of Hawaii's forests.

The Climate Protectors Hawai'i strongly support this bill because improving State nurseries will help grow trees that sequester greenhouse gases.

Please pass this bill! Mahalo!

Climate Protectors Hawai'i (by Ted Bohlen)



Environmental Caucus of The Democratic Party of Hawai‘i

Wednesday, March 24 2021, 1:00 pm

Senate Committee on Water and Land

HOUSE BILL 863 – RELATING TO RELATING TO FORESTRY: General Obligation Bonds for Forest Stewardship

Position: Strong Support

Me ke Aloha, Chair Lorraine Inouye, Vice-Chair Gilbert Keith-Agaran, and Members of the Committee on Water and Land:

The two paramount features of State policy regarding climate change are the elimination of greenhouse gas emissions and the sequestration of greenhouse gases through regenerative forestry, agriculture, and pasturage. Both of these require lengthy periods of implementation to see results, but even as climate change creeps up gradually until it is suddenly overwhelming, so the results of our adaptation and mitigation policies must proceed immediately, surely, and with all deliberate speed.

HB863 acknowledges the crucial role of healthy soil in reaching State carbon-neutral goals, and the significant role played by forestry and agroforestry in optimizing the regenerative capacities of good forest stewardship. The purpose of the bill is to fortify the State’s plant nursery capacity, renovating , modernizing, and expanding existing nurseries, in collaboration with the large community of scientists and practitioners in State and federal agencies.

While General Obligation Bonds are not the preferred means of financing, draining significant dollars out of the State, Hawaii does not yet have its own public bank, which could create this wealth from its own resources.

Nonetheless, the time is upon us to take action to improve capacity in this and other fields to withstand the hardships to come as the result of climate destabilization. The impressive collaboration and expertise of the forest stewardship community will get a boost from this initiative. The Environmental Caucus of the Democratic Party is in strong support of HB863, thanking this committee for the opportunity to address the issue.

/s/ Charley Ice, Co-Chair, Energy & Climate Action Committee, Environmental Caucus of the Democratic Party of Hawaii.

HB-863-HD-2

Submitted on: 3/22/2021 8:05:25 PM

Testimony for WTL on 3/24/2021 1:00:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Quinn	Individual	Support	No

Comments:

Dear Honorable Committee Members,

Please support HB863.

Thank you,

Andrea Quinn



LATE

Written Testimony before the

SENATE COMMITTEE ON WATER & LAND
Wednesday, March 24, 2021 (1:00 pm)

RE: HB863 HD2 RELATING TO FORESTRY

Chair Inouye, Vice Chair Keith-Agaran, Members of the Committee on Water and Land:

Trees for Honolulu's Future (TFHF) is a non-profit organization with a vision for a tree-filled island that preserves and enhances our quality of life, especially in the face of climate change.

We support the above-referenced bill, which authorizes general obligation bonds to DLNR to increase plant stocks, invest in public outreach, and renovate the equipment and facilities of the state tree nurseries. To state the obvious, to increase the tree canopy, as TFHF work towards, adequate, and appropriate, nursery stock is critical. Think of it as part of the supply chain the same way Covid-19 testing required going all the way back to the source ingredients to "ramp up". The constraint on tree plantings is adequate, ready, suitable, nursery stock.

Furthermore, TFHF likes how this bill's preamble stresses how trees create multiple benefits well documented by research. Trees create shade and use evapotranspiration to lower temperature. Trees also recharge groundwater and decrease surface runoff protecting our reefs. Trees trap pollutants and store CO2. Trees calm traffic. Sadly though, Honolulu has been losing urban tree canopy over the past years so increasing the availability of quality nursery stock is essential for all our partners.

Former Vice President Al Gore said it best when he wrote in the September 20, 2019, New York Times: *"And so far, the best available technology for pulling carbon dioxide from the air is something called a tree."* We are running out of time to address climate change. Trees will help and so will this bill and the associated investment into building our tree nursery capacity.

We ask that this bill be passed to the Committee on Finance. Thank you for caring for and working toward a better future.

Mahalo,

Daniel Dinell, President

HONOLULU is HOT TREES are COOL

Visit us: www.TreesForHonolulu.org Contact us: info@TreesForHonolulu.org Voice/Fax/Text: 808-707-6353
P.O. Box 12051, Honolulu, Hawaii 96828