

DAVID Y. IGE  
Governor

SHAN S. TSUTSUI  
Lt. Governor



State of Hawaii  
**DEPARTMENT OF AGRICULTURE**  
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SCOTT E. ENRIGHT  
Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER  
Deputy to the Chairperson

**TESTIMONY OF SCOTT E. ENRIGHT  
CHAIRPERSON, BOARD OF AGRICULTURE**

**BEFORE THE HOUSE COMMITTEE ON FINANCE**

February 26, 2016  
1:00 P.M.  
CONFERENCE ROOM 308

**HOUSE BILL NO. 1597 HD1  
RELATING TO ENVIRONMENTAL PROTECTION**

Chairperson Luke and Members of the Committees:

Thank you for the opportunity to testify on House Bill 1597 HD1. This bill appropriates general funds to 1) research methods to prevent and treat rapid ohia death and 2) control and contain damage caused by rapid ohia death. The Department supports this bill provided that it does not impact the priorities submitted in the department's executive budget and offers comments.

Rapid Ohia Death (ROD) is known to have infested at least 35,000 acres on the Big Island and continues to spread throughout that island and has not been found on other islands. It has left a devastating impact to the forests killing 50-90% of the trees in infested areas. The Department of Agriculture (HDOA) established a quarantine on August 25, 2015 to prevent its spread from the Big Island to the other islands. This is under our authority which enables us to create an interim rule to govern the transport of flora and fauna into and within the State to protect agriculture and the environment.

ROD is a serious disease of Hawaii's ohia forests and the loss of these trees would have a devastating impact on our forest lands and natural resources. The purpose of this bill is to fund research for the treatment and prevention of ROD and control and contain damage caused by ROD. It is the department's view that it would be more advantageous to have these funds go to the Department of Land and Natural Resources which, unlike HDOA, have the mandate and authorities to carry out the purpose of this bill.

Thank you for the opportunity to present testimony.



DAVID Y. IGE  
GOVERNOR OF  
HAWAII



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

POST OFFICE BOX 621  
HONOLULU, HAWAII 96809

**Testimony of  
SUZANNE D. CASE  
Chairperson**

**Before the House Committee on  
FINANCE**

**Friday, February 26, 2016  
1:00 PM  
State Capitol, Conference Room 308**

**In consideration of  
HOUSE BILL 1597, HOUSE DRAFT 1  
RELATING TO ENVIRONMENTAL PROTECTION**

House Bill 1597, House Draft 1 proposes to require the Department of Agriculture (DOA) to submit a report to the legislature on the status of Rapid Ohia Death and appropriate funds to DOA for research and control/containment. **The Department of Land and Natural Resources (Department) supports this measure provided that this appropriation does not adversely impact appropriations for other priorities in the Executive Supplemental Budget request or any existing funding to the Department's programs.**

The recent spread of Rapid Ohia Death (ROD) on Hawaii Island threatens the State's most important forest species and requires urgent action. Recent surveys conducted by the Department found 34,000 acres of ohia forest potentially killed by this disease, which is more than double the area mapped in 2014. The Department is working closely with DOA, United States Department of Agriculture (USDA) Forest Service and Agriculture Research Service, University of Hawaii College of Tropical Agriculture, and others to understand ROD and mitigate its spread where possible. Due to the lack of knowledge about this disease, many questions need to be answered before effectively managing the outbreak, as well as providing information or suggestions to the public.

This bill designates funding for 1) research for prevention and treatment; and 2) control and containment. We do not currently have treatments available to contain outbreaks in the forest, and funds are needed for researchers to develop such treatments. The Department supports funding research through DOA, but other activities might be more appropriately funded through different agencies. For example, control and containment activities, if research leads to effective

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

**KEKOA KALUHIWA**  
FIRST DEPUTY

**JEFFREY T. PEARSON, P.E.**  
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

techniques, would be more effectively handled by the Department and other land management agencies.

The level of resources needed to answer important questions will need to be sustained over several years. Currently staff working on the project are managing multiple projects and need to hire qualified individuals to work full time on the issue. Initial funds have been secured, but will need to be sustained. The Department estimates that \$600,000 would be needed, in combination with federal and private foundation funds, to support positions and operations at the University of Hawaii, USDA, and the Department's Division of Forestry and Wildlife in pathological research, survey and monitoring, and outreach and education.

Despite a lack of full understanding about this disease, all of the activities mentioned are vital to an effective response; therefore funding needs will be ongoing. The Department will continue to work closely with DOA and other partners to share knowledge and coordinate actions so resources are used efficiently.



**Department of Land and Natural Resources  
Aha Moku Advisory Committee  
State of Hawaii  
Post Office Box 621  
Honolulu, Hawaii 96809**

Testimony of  
Piilani Kaawaloa  
Aha Moku Advisory Committee – Moku O Keawe (Hawaii)

Before the House Committee on  
Finance

Friday, February 26, 2016  
1:00 P.M.  
State Capitol, Conference Room 308

**In Consideration of  
HOUSE BILL 1597 HD 1  
RELATING TO ENVIRONMENTAL PROTECTION**

House Bill 1597 HD 1 appropriates funds to the Department of Agriculture for research and mitigation efforts relating to the rapid ohia death disease in the State. It requires the Department to submit a report to the legislature and makes appropriations. **The Aha Moku SUPPORTS this measure.**

The Aha Moku encompasses the eight main Hawaiian Islands, which in turn is comprised of 47 moku and 607 ahupua'a, each one of which is individual and unique with its own natural resources. The commonality among all of them is that the ohia tree is unique and sacred to the Hawaiian culture as a whole and with the exception of Kahoolawe and Niihau; the other islands have them where the people have used the ohia in their traditional practices for generations.

The focus of the Aha Moku System, as stated by this Legislature is to assist the State in the protection and sustainability of its distinctive natural and cultural resources by bringing forward Native Hawaiian empirical resource methodology that together with scientific expertise may further protect our natural assets. However, in the case of the ohia, we do not know where the disease came from. We do support every effort to find this out, and find a cure for this as soon as possible.

Today, it is often difficult to protect these resources because of the influx of invasive species which, because they are not native to Hawaii, often causes irreparable harm to our endemic and indigenous flora and fauna. This in turn does great harm to our cultural resources. We believe this measure is greatly needed. On our island, Moku O Keawe (Hawaii), alone, we currently have to deal with the rapid demise of our sacred ohia trees. In time, if a cure is not found, this will eventually spread to all islands. All of this directly impacts our native Hawaiian resource practices. We need to find a way together, to find a cure for this deadly disease.

Thank you for the opportunity to offer testimony and we urge this committee pass this measure.



# UNIVERSITY OF HAWAII SYSTEM

## Legislative Testimony

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Written Testimony Presented Before the  
House Committee on Finance  
Friday, February 26, 2016 at 1:00 p.m.

By

Robert Bley-Vroman, Chancellor

And

Maria Gallo, Dean

And

J. Kenneth Grace, Associate Dean

College of Tropical Agriculture and Human Resources  
University of Hawai'i at Mānoa

### HB 1597 HD1 – RELATING TO ENVIRONMENTAL PROTECTION

Chair Luke, Vice Chair Nishimoto, and members of the House Committee on Finance, thank you for this opportunity to testify in support of HB 1597 HD1, which appropriates funds to the Department of Agriculture for research and mitigation efforts relating to the rapid ohia death disease in the State.

Rapid ohia death, caused by a fungal pathogen first identified in 2014, has spread extremely rapidly on the Big Island, from 15,000 acres of ohia forest infected by the disease in 2014, to 34,000 in 2016. Ohia makes up half the acreage, and half the woody biomass, of all the forests in Hawai'i. Loss of ohia across the state will severely impact our endangered forest birds that depend on the trees for nesting sites, and will intensify invasion of the forest by invasive plant species such as strawberry guava that use more water than ohia, with negative impacts on the watershed. From a cultural standpoint, it is difficult to imagine Hawai'i without ohia and the lehua flowers. Further, forests of dead trees will greatly damage tourism, particularly on the Big Island, and greatly increase fire hazards.

The nursery industry in Hawai'i has also been impacted by rapid ohia death, since it has been necessary to impose a quarantine on soil movement from the Big Island to prevent possible spread of the disease.

Researchers from state and federal agencies and the College of Tropical Agriculture and Human Resources (CTAHR) are working to address the spread and management of this severe plant disease, but their efforts are limited by resources and by the absence of prior information on this devastating and very rapidly spreading forest disease. HB 1597 HD1 would appropriate the funds necessary to increase these research and management efforts before the disease devastates Big Island forests, and spreads across the state.

We appreciate the opportunity to testify in support of HB 1597 HD1.

Testimony of The Nature Conservancy of Hawai'i  
Supporting H.B. 1597 HD1 Relating to Environmental Protection  
House Committee on Finance  
Friday, February 26, 2016, 1:00PM, Room 308

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*The Nature Conservancy of Hawai'i is a private non-profit conservation organization dedicated to the preservation of the lands and waters upon which life depends. The Conservancy has helped to protect nearly 200,000 acres of natural lands in Hawai'i. We manage 40,000 acres in 14 preserves and work in 19 coastal communities to help protect the near-shore reefs and waters of the main Hawaiian Islands. We forge partnerships with government, private parties and communities to protect Hawai'i's important watershed forests and coral reefs.*

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The Nature Conservancy supports H.B. 1597 HD1. We appreciate the crisis situation that exists with respect to Rapid 'Ōhi'a Death (ROD) and the acute circumstances on Hawai'i island with this disease and other pests of the environment, agriculture, and human health and well-being. We support a strong and coordinated response to ROD that is threatening the dominant native tree species in the Hawaiian forest—a tree that is central to the forests' ecological, cultural and watershed values statewide.

We also hope that providing the necessary and critical support for Rapid 'Ōhi'a Death will be additive and not prevent the Legislature, the Administration and partners from also devoting appropriate attention and funding to the full range of pest issues across the islands. We are concerned about unintended financial impacts of a piecemeal approach to invasive species funding. For example, in Fiscal Year 2007 the Legislature's provision of specific funding for coqui frog control was really a shifting of existing funds from other important invasive species programs, which then caused layoffs in the Island Invasive Species Committees and a hiatus in the Hawai'i Invasive Species Council's research grant program.

Therefore, we respectfully ask that the Committee and the Legislature also take a comprehensive approach of providing significant and consistent funding to address invasive species prevention, early detection, rapid response, control, research, and outreach priorities across the state. The Hawai'i Invasive Species Council—or the proposed Hawai'i Invasive Species Authority ([HB2270/SB2799](#))—is the appropriate multi-agency venue for this broader effort. This approach necessarily results in prioritization based on a variety of issues including human health, safety and well-being, economic harm, and the threat to the health and function of the environment.

Thank you for the opportunity to testify on this bill.

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February 26, 2016

HEARING BEFORE THE  
HOUSE COMMITTEE ON FINANCE

TESTIMONY ON HB 1597, HD1  
RELATING TO ENVIRONMENTAL PROTECTION

Room 308  
1:00 PM

Aloha Chair Luke, Vice Chair Nishimoto, and Members of the Committee:

I am Randy Cabral, President of the Hawaii Farm Bureau (HFB). Organized since 1948, the HFB is comprised of 1,900 farm family members statewide, and serves as Hawaii's voice of agriculture to protect, advocate and advance the social, economic and educational interest of our diverse agricultural community.

**HFB strongly supports HB 1597, HD1**, which appropriates funds to the Department of Agriculture for research and mitigation efforts relating to the rapid ohia death disease in the State.

Watersheds are the lifeblood of our communities. It is important not just to agriculture but to our social and environmental health. The spread of Ohia Wilt has been alarming and its' management before spreading to other islands is very critical. Many of the other islands depend on surface water for their drinking and irrigation needs. Loss of trees will severely impact watersheds.

HFB respectfully requests your support of HB 1597, HD1.

Thank you for this opportunity to provide our opinion on this important matter.



Testimony of the O'ahu Invasive Species Committee  
Supporting H.B. 1597 Relating to Environmental Protection  
House Committee on Finance  
Friday, February 26, 2016 1:00 PM Room 308

The O'ahu Invasive Species Committee supports H.B. 1597 which would provide funding to research questions surrounding the *Ceratomyx* pathogen that causes Rapid 'Ōhi'a Death. We are grateful to the Legislature for recognizing the seriousness of this situation and acting quickly to address it. OISC is currently assisting with outreach and early detection on O'ahu for this disease.

There are so many questions around this disease and this bill would support research to answer them. We would ask however, that this funding be additive and not in place of regular invasive species funding so that if we are able to contain this disease, we will not have to play catch up with invasive species projects that we had to drop.





3620 Waiālae Ave Suite 203  
Honolulu, HI 96816-3253

February 24, 2016

**TESTIMONY IN SUPPORT OF HOUSE BILL 1597**

**HOUSE COMMITTEE ON FINANCE**

The Aloha Arborist Association (AAA) supports HB 1597 relating to environmental protection for appropriating funds to the Department of Agriculture for research and mitigation efforts relating to the Rapid Ohia Death disease in Hawaii.

Rapid Ohia Death has killed over 100,000 ohia trees and spread to 34,000 acres on Hawaii Island. Ohia comprises over fifty percent of our native forests state wide and is critical to our watersheds and to numerous native fauna, many of which are endangered. This disease has the potential to devastate to our State's economy and environment, as well as adversely impact Native Hawaiian cultural practices. As such, we strongly support funding accelerated research to find a way to stop this disease.

Mahalo for considering our testimony.

Respectfully submitted,

J. Zambo  
President

Aloha Arborist Association is an organization of 79 individuals and companies who work in the tree care industry.

**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Wednesday, February 24, 2016 11:18 PM  
**To:** FINTestimony  
**Cc:** james.b.friday@gmail.com  
**Subject:** Submitted testimony for HB1597 on Feb 26, 2016 13:00PM

**HB1597**

Submitted on: 2/24/2016

Testimony for FIN on Feb 26, 2016 13:00PM in Conference Room 308

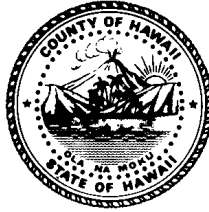
Submitted By	Organization	Testifier Position	Present at Hearing
James B Friday	Individual	Support	No

Comments: I am writing to testify in favor of House Bill 1597 appropriating funds to develop ways to control Rapid Ohia Death. I am the extension specialist in forestry with the University of Hawaii Cooperative Extension Service in Hilo, although this testimony is my personal opinion and not the University's. I have been working on Rapid Ohia Death since 2013 and have seen the devastation it is causing to the Big Island's forests. For someone who loves the native forest, such as myself, it is heartbreaking to see thousands of acres of dead trees spreading across the landscape. Since we identified the pathogen in 2014, we have assembled team of pathologists, entomologists, ecologists, and foresters to understand the disease, how it moves, and how we can manage it to protect our remaining forests on Hawaii Island and stop the movement of the fungus to other island. Further appropriations will help sustain these efforts and be much appreciated. Mahalo for your care for our forests and our islands.

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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DRU MAMO KANUHA  
Council Chair  
District 7 – Central Kona



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## HAWAII COUNTY COUNCIL

West Hawai'i Civic Center, Bldg. A, 74-5044 Ane Keohokālole Highway, Kailua-Kona, Hawai'i 96740

February 25, 2016

TO: The Honorable Sylvia Luke, Chair  
House Committee on Finance

FROM: Dru Mamo Kanuha, Council Chair

SUBJECT: **HEARING OF FEBRUARY 26, 2015; TESTIMONY IN STRONG  
SUPPORT OF HB 1597 H.D.1, RELATING TO ENVIRONMENTAL  
PROTECTION**

Thank you for the opportunity to testify in **strong support** of this important measure. The purpose of this bill is to appropriate funds for research and mitigation efforts to address rapid 'Ōhi'a death disease in the State.

Rapid 'Ōhi'a death is a newly identified fungal disease that has killed thousands of acres of mature 'Ōhi'a trees on Hawai'i Island,

The loss of these 'Ōhi'a trees greatly affects our forest's native species canopy and is a tremendous threat to the biodiversity of our fragile island ecosystem. It is critical that we put a plan in place to eliminate, control, and prevent the rapid 'Ōhi'a death from spreading throughout the islands.

I strongly encourage passing of this bill.



From: mailinglist@capitol.hawaii.gov  
Sent: Thursday, February 25, 2016 5:25 PM  
To: FINTestimony  
Cc: christym@rocketmail.com  
Subject: \*Submitted testimony for HB1597 on Feb 26, 2016 13:00PM\*

**LATE**

**HB1597**

Submitted on: 2/25/2016

Testimony for FIN on Feb 26, 2016 13:00PM in Conference Room 308

Submitted By	Organization	Testifier Position	Present at Hearing
Christy Martin	Coordinating Group on Alien Pest Species (CGAPS)	Support	Yes

Comments:

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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