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GOVERNOR OF
HAWAII



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

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FIRST DEPUTY

M. KALEO MANUEL
DEPUTY DIRECTOR - WATER

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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

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 Committees on
WATER, LAND, & HAWAIIAN AFFAIRS
and
ENERGY & ENVIRONMENTAL PROTECTION

Wednesday, February 6, 2019
10:30 A.M.
State Capitol, Conference Room 325

In consideration of
HOUSE BILL 451
RELATING TO THE HAWAII ASSOCIATION OF CONSERVATION DISTRICTS

House Bill 451 proposes to appropriate \$500,000 from the Special Land and Development Fund to the Department of Land and Natural Resources (Department) for the operational expenses and staffing costs of the Hawaii Association of Conservation Districts (HACD). **While the Department acknowledges the overall concept of this bill as it proposes funding for the Soil and Water Conservation District Program, the Department opposes this measure due the use of the Special Land and Development Fund. The Department offers the following comments.**

The purpose of the Soil and Water Conservation District (SWCD) Program is to educate, construct, maintain, and assist in the development of conservation plans to protect soil and water resources statewide. Each SWCD is operated by a five-member volunteer board. HACD is an umbrella organization formed by the 16 SWCDs under Chapters 180 and 180C, Hawaii Revised Statutes, and administratively attached to the Department. The Department notes that the SWCD Program has historically been general funded, and it does not have a base budget appropriation, therefore funding would be required for the continuance of their activities.

The SWCD Program primarily supports private agricultural enterprises conducted on lands outside the management of the Board of Land and Natural Resources (Board). The Department has concerns about this bill because the designated funding source, the Special Land and Development Fund (SLDF), is limited to the management and maintenance of lands under

the management and control of the Board. Monies in the SLDF are needed to provide the much-needed funding to the various conservation and natural resource programs of the Department and the proposed appropriation could compromise the Department's ability to fund such programs and activities more focused on its core mission of natural, recreational, cultural and historical resource management.

Pursuant to Act 90, Session Laws of Hawaii 2003, the Department has been transferring its agricultural leases to the Department of Agriculture (DOA) via Governor's Executive Order. Upon the set aside, the lands are under the management jurisdiction of the Board of Agriculture, which has the sole authority to lease those lands for agricultural purposes. All revenues from transferred leases are paid to DOA. The Department does not believe it is appropriate to expend monies from the SLDF to support private farming operations on private lands or lands leased from DOA.

Considering these concerns, the Department respectfully requests that identified source of funding be changed to the general fund.

Thank you for the opportunity to comment on this measure.

DAVID Y. IGE
Governor

JOSH GREEN
Lt. Governor



PHYLLIS SHIMABUKURO-GEISER
Acting Chairperson
Board of Agriculture

State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 South King Street
Honolulu, Hawaii 96814-2512
Phone: (808) 973-9600 FAX: (808) 973-9613

TESTIMONY OF THE DEPARTMENT OF AGRICULTURE

BEFORE THE HOUSE COMMITTEES ON WATER, LAND, & HAWAIIAN AFFAIRS
AND ENERGY & ENVIRONMENTAL PROTECTION

FEBRUARY 6, 2019
10:30 A.M.
CONFERENCE ROOM 325

HOUSE BILL NO. 451
RELATING TO THE HAWAII ASSOCIATION OF CONSERVATION DISTRICTS

Chairpersons Yamane and Lowen and Members of the Committees:

Thank you for the opportunity to testify on House Bill 451. This bill appropriates funds to the Hawaii Association of Conservation Districts (HACD) to assist with its staffing and operating costs. The Department of Agriculture supports this bill, but ultimately defers to the Department of Land and Natural Resources regarding the funding.

Proper conservation practices are essential to a farmer's success, and conservation plans are an important tool for farmers to use in order to maximize soil retention by implementing erosion and sediment control best management practices. HACD can provide farmers with the technical expertise needed to create their own conservation plans. With an approved conservation plan, farmers will be able to attain necessary permissions prior to clearing and grading their land to prepare it for planting and to put new lands into production. HACD provides an important service for the State of Hawaii and deserves consistent funding moving forward.

Thank you for the opportunity to testify on this measure.





Hawaii Floriculture and Nursery Association

HOUSE OF REPRESENTATIVES
THE THIRTIETH LEGISLATURE
REGULAR SESSION OF 2019

COMMITTEE ON WATER, LAND, & HAWAIIAN AFFAIRS

Rep. Ryan I. Yamane, Chair
Rep. Chris Todd, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Nicole E. Lowen, Chair
Rep. Tina Wildberger, Vice Chair

NOTICE OF HEARING

Wednesday, February 6, 2019
Conference Room 325
State Capitol
415 South Beretania Street

HB451 RELATING TO THE HAWAII ASSOCIATION OF CONSERVATION DISTRICTS: Makes an appropriation from the special land and development fund to the Department of Land and Natural Resources for the operational expenses and staffing costs of the Hawaii Association of Conservation Districts.


My name is Eric S. Tanouye and I am the President for the Hawaii Floriculture and Nursery Association. HFNA is a statewide umbrella organization with approximately 300 members. Our membership is made up with breeders, hybridizers, propagators, growers, shippers, wholesalers, retailers, educators, and the allied industry, which supports our efforts in agriculture.

The Hawaii Floriculture and Nursery Association (HFNA) **SUPPORTS House Bill 451**

The Hawaii Association of Conservation Districts plays an important role in helping to maintain Hawaii's environment. Hawaii's Nurserymen and women understand the importance of being good stewards of the land and support funding the Hawaii Association of Conservation Districts.

If you have any questions at this time, I would be happy to discuss them and can be reached by phone at 808-959-3535 ext 22, cell 960-1433 and email eric@greenpointnursery.com.

Supporting Agriculture and Hawaii,


Eric S. Tanouye
President
Hawaii Floriculture and Nursery Association

TESTIMONY

HB 451: Relating to Soil and Water Conservation Districts

House Committee on Water, Land and Hawaiian Affairs
House Committee on Energy and Environmental Protection

Room 325
10:30 AM

February 6, 2019

Chair Yamane, Chair Lowen and Members of the Committees:

The Maui Soil and Water Conservation Districts are in **strong support, with amendments to HB451**, funding the Soil and Water Conservation Districts.

My name is Jason Hew, Maui SWCD Conservation Specialist. I am an example of the leveraging of funds that occurs to carry out the mission of HRS Chapter 180, protecting our soil and water resources. My salary is paid for by the County. Together with a specialist paid for by State funds and in cooperation with NRCS personnel, we help producers adopt conservation plans to keep them compliant with County ordinances. The plans I prepare, qualify the producer for Federal Cost Share Programs that can be up to 90% of the cost to implement a practice. Without State funding we could not complete the number of plans needed. And as a result, producers would not be able to avail themselves to Federal funds.

Agriculture is changing and we have immigrant farmers. Many do not understand the importance of conservation practices and I need to explain why it is necessary. I believe our services are important not just to protect the soils that producers depend on but to prevent runoff that can have a negative impact on our reefs and streams.

Maui SWCDs respectfully requests your support of this measure, **replacing General Funds as the source of funding**, to help the districts continue and expand our services for the welfare of our natural resources.

Thank you very much for this opportunity to provide testimony.

HB-451

Submitted on: 2/5/2019 10:49:27 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Karen Winslow	Hawaii Farmers Union	Support	No

Comments:

TESTIMONY

HB 451: Relating to Soil and Water Conservation Districts

House Committee on Water, Land and Hawaiian Affairs
House Committee on Energy and Environmental Protection

Room 325
10:30 AM

February 6, 2019

Chair Yamane, Chair Lowen and Members of the Committees:

Hawaii Association of Conservation Districts strongly supports HB451, appropriating operating funds for the districts, with a change in the source of funding from Special Land Development Funds (SLDF) to General Funds.

Hawaii's Soil and Water Conservation Districts (HACD) and the 16 Hawaii Soil & Water Conservation Districts (SWCDs) appreciate your history of commitment to investing in us. Your commitment has made it possible to provide services that protect Hawaii's Land and Water resources from a multitude of threats, including erosion. In addition, the Conservation Plans developed by Conservation Specialists funded by these funds and leveraged with County and Federal funds, have provided cost share opportunities for farmers and ranchers, annually averaging \$800 million. These are Federal funds provided to offset costs by farmers and ranchers to increase the viability of their operations while protecting the lands from erosion, and waters from pollution. Conservation is good business for the islands, as well as its people.

Our mission is required by law in HRS Ch. 180 that was put into place by Federal legislation requiring States to develop programs to address soil conservation. The State of Hawaii adopted the requirement to have a soil and water conservation program and required the Counties to adopt ordinances to carry out the intent. As a result, all counties have ordinances and the 16 SWCDs were created across the State. This program is an excellent example of how programs that benefit Hawaii can be implemented. It is a shared responsibility between Federal, State and County governments leveraged by local on the ground volunteers that carry out the program. There is consistency as Conservation Plans are developed and approved using USDA-NRCS guidelines and approved by NRCS conservationists.

While HACD funding has not been in the base budget of DLNR, HACD is required to submit its' budget to the agency by statute. This requirement would appear to result in the inclusion of HACD funding needs in the agency's budget. In the past, funding was for HACD and the SWCDs were partially covered by Title 319 funds from the Department of Health, Clean Water Branch. These 319 monies specifically covered the Conservation Specialists until 2011. The agency felt, it was not an appropriate use of funds and for a year, until Hawaii Farm Bureau assisted the Districts with legislation, the Department of Agriculture provided interim funding. While farmers and ranchers are major beneficiaries of our programs, we serve the entire State.

Many CIP funding such as flood control projects assisting communities across the State are sponsored by the Soil and Water Conservation Districts for federal funding. Examples include:

- Watershed Protection Planning and Projects
- Conservation Planning
- Education and Community Outreach

These projects provide examples of why we are assigned as part of the DLNR.

We respectfully request your support of this measure, **replacing General Funds as the source of funding**, to help the districts expand our services for the welfare of Hawaii's natural resources. We appreciate this opportunity to provide our opinion on this matter. If there are questions, please contact Michelle Watkins at 808-230-4228.



Email: communications@ulupono.com

HOUSE COMMITTEES ON WATER, LAND, & HAWAIIAN AFFAIRS AND ENERGY &
ENVIRONMENTAL PROTECTION

Wednesday, February 6, 2019 — 10:30 a.m. — Room 325

Ulupono Initiative Strongly Supports HB 451, Relating to the Hawai'i Association of Conservation Districts

Dear Chair Yamane, Vice Chair Todd, Chair Lowen, Vice Chair Wildberger, and Members of the Committees:

My name is Murray Clay and I am Managing Partner of Ulupono Initiative, a Hawai'i-based impact investment firm that strives to improve the quality of life for the people of Hawai'i by working toward solutions that create more locally produced food; increase affordable, clean, renewable energy; and better manage waste and fresh water resources. Ulupono believes that self-sufficiency is essential to our future prosperity and will help shape a future where economic progress and mission-focused impact can work hand in hand.

Ulupono strongly supports HB 451, which provides funding to the Hawai'i Association of Conservation Districts (HACD), because it aligns with our goal to increase local food production.

The O'ahu chapter of HACD, the O'ahu Resource Conservation and Development Council, developed the 808 Planner tool via funding from Ulupono. This tool helps farmers and ranchers by creating customized online conservation plans with expedited approval. The conservation plans are designed to improve farming techniques and minimize environmental damage. HACD plays an integral part in keeping Hawai'i's agriculture land in a quality state.

As Hawai'i's local food issues become increasingly complex and challenging, organizations need additional resources and support to address and overcome them. We appreciate these committees' efforts to look at policies that support local food production.

We believe that through collaboration, we can help produce more local food and support an economically robust homegrown agriculture industry, which strengthens our community with fresh, healthy food. Thank you for this opportunity to testify.

Respectfully,

Murray Clay
Managing Partner

Investing in a Sustainable Hawai'i

HB-451

Submitted on: 2/4/2019 5:57:55 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Chris Manfredi	Hawaii Coffee Association	Support	No

Comments:

HB-451

Submitted on: 2/4/2019 6:49:56 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Warren Watanabe	Maui County Farm Bureau	Support	No

Comments:

We request support of the HACD position on this measure. Thank you.

HB-451

Submitted on: 2/4/2019 7:44:28 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Alan Takemoto	Bayer	Support	Yes

Comments:

On behalf of Dan Clegg, Bayer Hawaii Business Operations Lead, we support HB 451, which provides funding for staff and operations of the Hawaii Association of Conservation Districts (HACD).

HACD was created by farmers who saw the value in implementing conservation practices. They saw the importance of protecting resources, which provides nutrients for crops and livestock.

While the conservation districts are most often associated with the preparation and approval of conservation plans, the scope of their activities is much broader. Their activities include education and outreach to farmers and ranchers. By funding the Districts, you contribute to their capacity to carry out these tasks.

Thank you for the opportunity to testify on this measure.

Testimony in support of HB 451.

As the staff for the Kona Soil and Water Conservation District (KSWCD) let me tell you what I have on my schedule for the balance of this month.

- Conservation plan for a local coffee farmer
- Maps for four producers
- Site visits with two producers. Each receive a set of maps and a folder of general information pertaining to soils and natural resources as well as site specific information
- Field training for Soils. Required to reach Certified Planner Status. Fifteen hours of interactive web-based training has been completed this month.
- Start on next newsletter (scheduled for release at the end of March) including an article on the Two-Line Spittle Bug (TLSB). Attached is copy of our last newsletter.
 - TLSB affected 2,000 acres of pasture land in 2016, in 2018 is was over 125,000 acres which represents over 20% of pasture land on the Big Island, and it is all in N and S Kona.
 - TLSB destroys at least two species of pasture grass, Kikuyu and Pangola. This pest kills the entire plant, including the root system.
 - Without the grass cover's root system, the opportunities for catastrophic erosion are numerous. Every flash flood could do huge swaths of significant damage
 - Any remaining soil on the land would then support Christmas berry, African Tulip trees among other invasive plants.
 - What happened to the cattle industry while this disaster was playing out?
 - There is a new Scale species in the state, first identified in January. This is a problem but relative to the TLSB, using a medical metaphor, Scale is a mosquito and TLSB is a heart attack requiring by-pass surgery.
- Treasury Report
- Agenda
- Monthly meeting
- Minutes
- I have family visiting and will take some time off and spend it with them.
- I have the receptionist role for the Kealahou USDA/NRCS Field Office and brings with it all the traditional aspects of a receptionist position which generally make for a huge number of interruptions each day. This can be challenging for activities that require in-depth thinking, like conservation planning.
 - Yesterday, typical day, a random person dropped in at a random time. They were provided a soils folder and the two booklets the Kona SWCD has published, one on the state of our natural resources and the other on Kona's native plants which everyone loves due to our highly diverse climate zones. They were also made aware of our Tropic lalo patch. This is where one of the needs for mapping and a site visit appointment originated.
- Some maintenance on our Tropic lalo patch and other plantings, we produce native pili grass seed too. Also, vetiver grass which is excellent at slowing down water and capturing erosion. It has been used on denuded mountain sides as a first step in successful reforestation projects on other islands around the Pacific. We have a local producer who has had great success using this...it is where we received our slips from.
- Other tasks not yet known

A well-staffed SWCD office is out of the purview of this bill, that would require hydrologists and engineers, but if enough additional funding could be provided so that I have a coworker one of us could focus on the admin work and really dig into community outreach and education, the other focus on planning with farmers and ranchers. It would be cool because we would still be a very small staff so skill sets in both areas would be required

I believe if people knew the steps to protect the land they would take them, but many simply do not know.

I hope you can see your way to vote for this bill. The people in N. and S. Kona deserve more than just 1 person helping them because one person cannot do it all.

Thank you,

Mary Robblee, Conservation Assistant, Kona Soil and Water Conservation District.

Resource Kona

RESOURCE KONA

Fall/Winter 2018

KONA SOIL AND WATER CONSERVATION DISTRICT

Kamehameha Schools Wins the State Conservation Awareness Contest...on to Nationals!

Each fall the 16 Soil and Water Conservation Districts (SWCDs) across the state work together organizing County Conservation Awareness Contests. One district from each county (Hawaii County has 6) hosts the contest and the other districts help out. After the county level contests come the state level event followed by a national competition in Oklahoma.

This year the Kona SWCD hosted the state level contest and welcomed Molokai High School, St. Anthony's High School, Maui, and Kamehameha School Hawaii from Hawaii as the competitors. The competition was held at Home O Kahalu'u Farm, Kamehameha land leased to Richard and Roswitha Fowler. It is managed by their daughter Angelica and her husband Steven and was awarded the 2014 Cooperator of the Year in Agroforestry. It has a wide variety of plants, both native and non-native plants and unique soils.

Three sites on the farm were chosen for soil pit sites. One site represented a home site, the other two represented agriculture. All the sites provided a diversity of soil from shallow to moderately deep, and different categories of soil texture, slope and erosion. All the students had the opportunity to apply their knowledge to judge the soil and the land based on the conservation awareness contest guide.



From the left: Coach Lorinda Forster; with the 3rd place high score, Alexis Hata; Kauila Thomas who had the 2nd place high score; D-Jay Gangano and then Luke Kaniho on the far right.



Individual High Scorer, from St. Anthony's High School on Maui, Daniel Tongson.

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Special points of interest:

- Kona SWCD meetings take place the Third Thursday of the month from 8am-10am and you are invited.
- This newsletter is produced with funding from the Hawaii County Department of Research and Development

Chicken Tractors, why you want one

There are so many good reasons to have and maintain a chicken tractor. A chicken tractor can provide you food, fertilizer and a way to manage many pest species on your farm. How many other things can do all that?

Things all chicken tractors need to have:

Chicken run Roosting area Egg laying area Frame Water Wheels/Runners

The chicken run is where the birds will spend the day. The run is bottomless, so the chickens get to pick at your weeds and insects keeping a variety of pests controlled.

The roosting area is where they will sleep at night. Remember, chickens like to sleep in trees so you have to mimic that.

The egg laying area can be a simply plastic storage container like you would find at many stores like Target, Walmart or even Ace Hardware. Cut a hole in the side put a some grass clippings in and you have an egg laying box.

The frame holds the whole thing together. In this model of chicken tractor part of the frame is covered with chicken wire and part with tarps. The tarps ensure the birds have shade no matter where on the farm the tractor is located.

Water, the birds need water to be available throughout the day.

Instead of wheels, Earthly Delights Farm has determined that “runners” are better and if they could get real sled runners (flexible flyer snow sled type runners) it would be even better than the PVC pipe runners they now use.

Earthly Delights Farm has five chicken tractors they move around throughout the day. In return for a safe place to live with plenty of food and water the chicken lay eggs and do pest control.



All the chicken tractors at Earthly Delights Farm look like the one on the left. This is a 4th generation design for Earthly Delights and they think they have come a long way since their first one. In the photo, below left, we can see the egg laying box (1), the feed trough (2) which is a piece of roof gutter, and the roosting poles (3), of the three roosting poles two are PVC pipes and the third is the wooden handle that sticks out on each end. The handle sticks out on each end so that you can move it in both directions. All of the parts to build this can be found at a Lowes, Home Depot or Ace Hardware. Four to five chickens will make this tractor home. If your land is such that you can run a mower over it



White paint bucket

The nipple the birds drink from.

Rapid Ohia Death Updates

There is a ROD newsletter available for the community if you want to stay up to date on the latest findings. Contact ambyr@hawaii.edu and ask to be added to the distribution list. All of the information (except the photos) on this page came from that newsletter.

Covering downed ohia trees known to have the fungus is one method of managing the spread of the disease. Some ohia logs, cut down and covered four years ago, tested positive for the fungus. If you want to safely move ohia logs they will need to be dried. Researchers are experimenting with lumber kilns to dry ohia posts and hope to have recommendations soon.

Enter the Ohia Challenge and win \$70,000. Anyone can submit a project that provides solutions that identify infected trees early, minimize the spread, and eliminate the pathogens, with the goal of saving Hawai'i's iconic 'ōhi'a tree. According to Cindy Orlando, Superintendent for Hawai'i Volcanoes National Park: "If 'ōhi'a is lost, the countless native species that grow in the shade of the 'ōhi'a will never be, the native birds that rest in the boughs of the 'ōhi'a and koa trees will have no roost, and rain that falls in Hawai'i's old growth forests will merely rush away, taking delicate island soils with it. Even the cycle of creation after a lava flow would be disrupted when there is no 'ōhi'a to help bring life back to the land.

Two related fungus cause ROD, one is more aggressive than the other. The least aggressive of the two have been identified on Kauai. Also this year, ROD was found in Kalōpā State Park a short distance from Honoka`a but this one is the more aggressive fungus.

The 2019 ROD Symposium has been scheduled:

ROD Symposium -East Hawai'i Island
 March 3, 2019, 9AM-12PM
 University of Hawai'i at Hilo, Hilo, HI

ROD Symposium -West Hawai'i Island
 March 30, 2019, 9AM-12PM
 West Hawai'i Civic Center, Kailua-Kona, HI

Help prevent spreading Rapid 'Ōhi'a Death by practicing these five things:

1. **Avoid injuring 'ōhi'a.**
2. **Don't move 'ōhi'a wood or 'ōhi'a parts.**
3. **Don't transport 'ōhi'a inter-island.**
4. **Clean gear and tools, including shoes and clothes, before and after entering forests.**
5. **Wash the tires and undercarriage of your vehicle to remove all soil or mud.**



Lehua blossoms: Credit Kona SWCD for photo on left and NPS for center and right photos.

Good Agricultural Practices (GAP) Audit - Obtain one with Federal Financial Assistance

The U.S. Department of Agriculture announced it will provide \$3.7 million of assistance to fruit and vegetable growers through the Good Agricultural Practices Assistance Program.

The Good Agricultural Practices or GAP are, “voluntary audits that verify fruits and vegetables are produced, packaged, handled and stored as safely as possible to minimize risks of microbial food safety hazards,” according to the USDA.

The program will begin in January and will cover up to 100% of the cost of GAP audit and GAP Plus+ audits for farmers, according to a news release. These two audits are the most comprehensive the USDA offers and they are aligned with the regulations on the Food and Drug Administration’s Food Safety Modernization Act.

The millions in assistance to growers in 16 states will improve market access by helping to cover the costs of undergoing voluntary USDA Harmonized Good Agricultural Practices audits.

In order to qualify for this assistance program, producers must be located in an AMA-eligible states (as determined by Congress): Connecticut, Delaware, Hawaii, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Utah, Vermont, West Virginia and Wyoming. If any of these states are already utilizing a Specialty Crop Block Grant those funds may need to be re-allocated to other eligible expenditures.

The program allows growers to produce safe food and for suppliers helps ensure their produce meets the standards set by the FDA and USDA.

This article was copied from www.packer.com, the fresh fruit and vegetable industry's leading source for news, information and analysis.

The contact at AMS for this is Albert M. Louie:

Phone: 808-832-0714

Fax: 808-832-0683

Albert.M.Louie@hawaii.gov

For more information on GAP and Good Handling Practices (GHP) as well as the audits check out this link: <https://www.ams.usda.gov/services/auditing/gap-ghp>

Soil Temperatures, Why It Is Important?

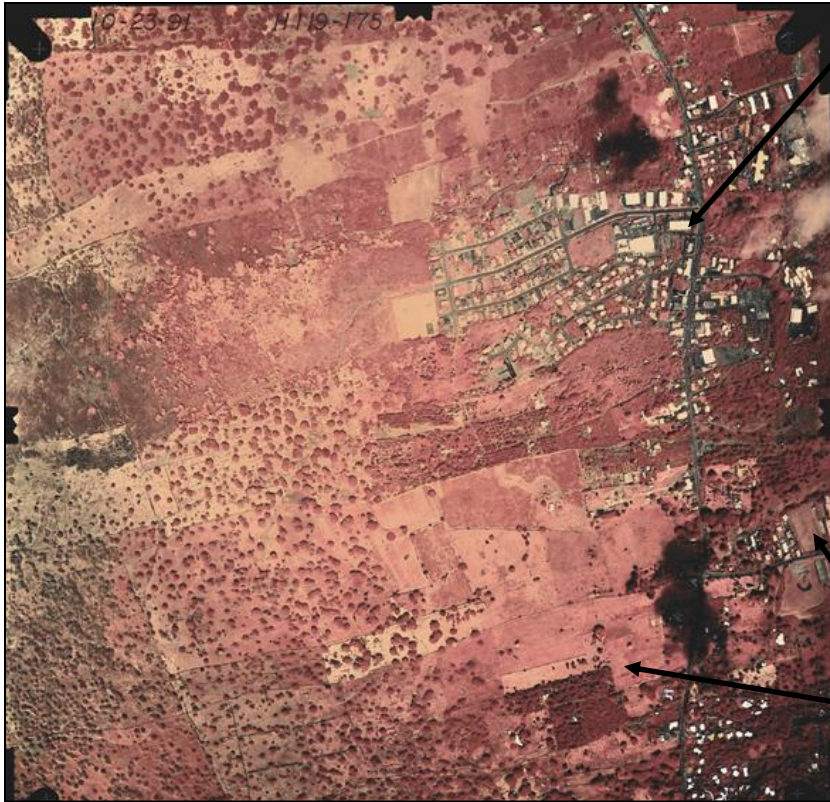
Soil temperature impacts seed germination, the growth of plants, nutrient uptake, many of nature’s cycles as well as the formation of soil itself.

Some plants prefer cooler climates. Cooler climates naturally have cooler temperature soils. Some plants that do well in the tropics will not survive outdoors where the soil is frozen for part of the year. Also, some plants need a “chill” time. They need to have a period of cold or frozen soil. Even in the tropics you can get tulips to grow, you “force” them. Forcing tulips, or any bulb plant, means putting it in the freezer for some length of time to mimic the freezing of the plant bulb in its natural outdoor setting.

Soil that gets too warm can have a very negative impact on moisture content. Soil directly exposed to the sun’s rays can dry out causing vegetation to be wilted and look tired earlier in the day. It is a stress on the vegetation and causes it to be susceptible to disease and pests.

You can moderate soil temperature and moisture fluctuations with mulch and conservation cover, like To a lesser degree, the shade of plants can also be a moderating influence on soil temperatures and moisture loss.

History's Corner



US Post Office, Kealakekua

Here in the USDA office we have some older aerial photographs of the area. It can be interesting to see the changes in the last 27 years of development. The photos on this page are of the area around the USDA office in Kealakekua. The older photo was taken on October 23, 1991. The other was clipped from Google on 1/10/2019. There have been lots of changes...the Konawaena High School track is not in the older photo, though the area for it appears to have been cleared.

Area for high school track

This is where the elementary school will go.



US Post Office, Kealakekua

The high school track

Konawaena Elementary School did not exist in 1991

Soil Facts...What is New in Soil (Michael Kolman and Jacky Vega)

Soil Scientists in the Kealahou USDA Field Office have been working on the National Ecological Observatory Network (NEON) project. The NEON project is sponsored by the National Science Foundation in collaboration with the USDA.

The objective of the NEON project is to understand and predict the impacts of climate change, land use, impacts of invasive species on ecology, and to provide infrastructure and consistent methodologies to support research and education. It is a large-scale, multifaceted, long-term research project that encompasses a network of terrestrial and aquatic field sites across the United States including Alaska, Hawaii, and Puerto Rico. The soil data collected during initial sampling is crucial for interpreting ecosystem responses to disturbances such as fires, floods, species invasions/ losses, and long-term environmental change. The data will provide baseline information about the soil environment that will improve our understanding of soil biodiversity, nutrient cycling, and carbon stocks in the near-term and long-term.

The site for the soil sampling associated with the NEON project is on the eastern slope of Mauna Loa, it is located at approximately 5,500 feet in elevation and within the Puu Makaala Natural Area Reserve (PUUM). PUUM is managed by the Department of Land and Natural Resources through the Division of Forestry and Wildlife. This natural area was established in 1981 to protect unique native rainforest, geologic features, and cultural resources for current and future generations. The rainforest of this reserve is important habitat for some of Hawaii's rarest birds and several rare plants.



Soil sampling crew at the PUUM site included L to R: Ed Tallyn, NRCS- Region 2 SDQS.

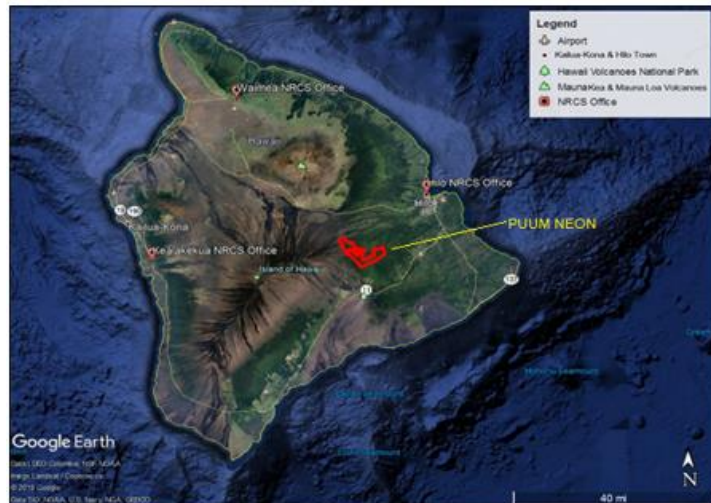
Top row: Jacqueline Vega, NRCS soil scientist; Francisco Calderon, ARS soil scientist; Omar, NEON.

Bottom row: Jacqueline Vega; Shane Vehana, NEON; Nanea Babila, NRCS- Pathways student.

Michael Kolman, NRCS MLRA SSO leader is missing from the photos.

Below left, view of the native rainforest and mega pit at the PUUM sampling site.

Below right, a map depicting the location of the PUUM site..





For more information, or to apply for any USDA Farm Service Agency program, please call your local USDA Service Center. NOTE: Fees, eligibility requirements, income and payment limitations may apply with any of the programs listed below. Please check with the nearest FSA office for specific rules. The FSA office shares a phone line with Rural Development (RD). Both are in Hilo and can be reached at 933-8381, FSA is ext 2.

USDA Market Facilitation Program

USDA launched the trade mitigation package aimed at assisting farmers suffering from damage due to unjustified trade retaliation by foreign nations. Producers of certain commodities can now sign up for the Market Facilitation Program (MFP).

USDA's Farm Service Agency (FSA) will administer MFP to provide payments to corn, cotton, dairy, hog, sorghum, soybean, wheat, shelled almond, and fresh sweet cherry producers. An announcement about further payments will be made in the coming months, if warranted.

The sign-up period for MFP runs through Jan. 15, 2019, with information and instructions provided at www.farmers.gov/mfp. MFP provides payments to producers of eligible commodities who have been significantly impacted by actions of foreign governments resulting in the loss of traditional exports. Eligible producers should apply after harvest is complete, as payments will only be issued once production is reported.

A payment will be issued on 50 percent of the producer's total production, multiplied by the MFP rate for a specific commodity. A second payment period, if warranted, will be determined by the USDA.

For a list of initial MFP payments rates, view the MFP Fact Sheet.

MFP payments are capped per person or legal entity as follows:

- A combined \$125,000 for eligible crop commodities
- A combined \$125,000 for dairy production and hogs
- A combined \$125,000 for fresh sweet cherries and almonds

Applicants must also have an average adjusted gross income for tax years 2014, 2015, and 2016 of less than \$900,000. Applicants must also comply with the provisions of the Highly Erodible Land and Wetland Conservation regulations.

Expanded Hog Timeline :

USDA has expanded the timeline for producers with whom the Aug. 1, 2018, date does not accurately represent the number of head of live hogs they own. Producers may now choose any date between July 15 to Aug. 15, 2018 that correctly reflects their actual operation.

MFP applications are available online at www.farmers.gov/mfp. Applications can be completed at a local FSA office or submitted electronically either by scanning, emailing, or faxing. To locate or contact your local FSA office, visit www.farmers.gov.

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81-948 Waena'Oihana Loop
Kealahou, HI 96750
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Monthly meetings are held on the 3rd Thursday of the month from 8am-10am at the USDA Kealahou Service Center below the post office. All are welcome and the facility is ADA accessible.

Organization: The Kona Soil and Water Conservation District (KSWCD) is a government subdivision of the State of Hawaii organized under Hawaii State Law, HRS Chapter 180

Function: To utilize available technical, financial and educational resources to focus or coordinate them so that they meet the needs of the local land users with regards to conservation of soil, water, and natural resources.

Service: The District serves the communities and land users within North and South Kona

Why: The District is committed to the promotion of wise land use and resource stewardship.



Additional Views of a Chicken Tractor



Above, you see the elbow piece of PVC piping? This is the end of the sled runner and makes it easier to move the tractor around the farm. Wheels were on the first model of chicken tractor Earthly Delights Farm developed but they easily get stuck behind rocks and in small depressions in the ground.



Above, a close up of the egg box. This egg box is just a plastic storage box with a hole cut out of it to give chickens access to the inside of it. You can see there are some grass clippings in there. That is to make the chickens more comfortable and feeling at home.



To the left: another view of the "sled runner". According to Earthly Delights Farm, using the sled runner method is far superior to wheels.



To the left, happy chickens at Earthly Delights Farm. Build yourself a chicken tractor and receive all the benefits like pest management and eggs for you and your family.



February 4, 2019

Representative Ryan I. Yamane, Chair
Representative Chris Todd, Vice Chair
House Committee on Water, Land & Hawaiian Affairs

Representative Nicole E. Lowen, Chair
Representative Tina Wildberger, Vice Chair
House Committee on Energy & Environmental Protection

Comments and Recommended Amendment to HB 451, Relating to the Hawaii Association of Conservation Districts (Appropriates funds from the special land and development fund to the Department of Land and Natural Resources [DLNR] for the operational expenses and staffing costs of the Hawaii Association of Conservation Districts [HACD]).

Wednesday, February 6, 2019, 10:30 a.m., in Conf Rm 325

The Land Use Research Foundation of Hawaii (LURF) is a private, non-profit research and trade association whose members include major Hawaii landowners, developers and a utility company. LURF's mission is to advocate for reasonable, rational and equitable land use planning, legislation and regulations that encourage well-planned economic growth and development, while safeguarding Hawaii's significant natural and cultural resources, and public health and safety.

LURF appreciates the opportunity to submit comments regarding, and a recommended amendment to **HB 451**.

HB 451. This bill proposes to appropriate funds from the special land and development fund to the DLNR for the operational expenses and staffing costs of the HACD.

LURF's Position. Members of LURF are participants of HACD, which is comprised of sixteen districts representing each community on all major islands of Hawaii. Testimony has been presented to the Legislature confirming that the HACDs are authorized by law to operate as government subdivisions to educate the public and construct and maintain conservation projects and programs in Hawaii, and that the HACDs have worked to improve Hawaii's environment and economy through collaborative efforts with partners and government agencies that have brought millions of dollars to the State to improve farm practices, reduce erosion, improve ocean and drinking water quality, fight invasive species, improve public safety, protect property,

conserve water, and strengthen the economy. The HACDs reportedly also provide educational and community support for conservation awareness, participate in resource conservation and development projects with high school programs statewide, and also introduce conservation principles in elementary schools.

LURF understands, however, that the HACDs unfortunately do not have a base budget appropriation under DLNR's budget, and that an appropriation is necessary to provide necessary funding in order that the HACDs may continue their important activities. While the source of the appropriation in this measure is stated to be the "special land and development fund," it is LURF's further understanding that on February 1, 2019, the House Committee on Water, Land & Hawaiian Affairs deferred HB 886 (2019) which had proposed to establish said special fund, thereby eliminating the identified source of funding. Due to the importance of continuing the HACD's activities, LURF respectfully recommends that these Committees amend this bill by changing the source of the proposed appropriation from the "special land and development fund" to the **"general revenues of the State of Hawaii."**

For the above reasons, LURF **supports HB 451** with amendments as proposed, and respectfully urges your favorable consideration.

Thank you for the opportunity to present testimony regarding this matter.

HB-451

Submitted on: 2/5/2019 9:23:11 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Yoshito L'Hote	Aina Ho'okupu o Kilauea	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 4:54:42 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jean Brokish	Oahu Resource Conservation & Development Council	Support	No

Comments:

Local Soil and Water Conservation Districts are an essential piece of sustainable agriculture in Hawaii.



HAWAII CROP IMPROVEMENT ASSOCIATION

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TESTIMONY FROM BENNETTE MISALUCHA, EXECUTIVE DIRECTOR

In Support of HB451

Relating to the Hawaii Association of Conservation Districts

HOUSE COMMITTEE ON WATER, LAND & HAWAIIAN AFFAIRS AND
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
February 6, 2019, 10:30 a.m.
Conference Room 325

Chairs Yamane and Lowen and members of the committees:

The Hawaii Crop Improvement Association (HCIA) strongly supports HB451, which makes an appropriation from the special land and development fund to the Department of Land and Natural Resources for the operational expenses and staffing costs of the Hawaii Association of Conservation Districts (HACD).

Funding of HACD is critical to the viability of the 16 Soil and Water Conservation Districts across the State. In the past, collaborative efforts with partners have helped to improve farm practices, reduce erosion, fight invasive species, protect property and conserve water. However, a lack of funding has limited HACD's services to priority watershed areas that have approved watershed plans. Efforts need to be expanded to educate all farmers and ranchers on the value of implementing conservation practices to protect resources. Additional funding will allow for this.

Please vote yes on HB451. Mahalo for your time and consideration.

Respectfully submitted,

Bennette Misalucha
Executive Director, Hawaii Crop Improvement Association

The Hawaii Crop Improvement Association is a Hawaii-based non-profit organization that promotes modern agriculture to help farmers and communities succeed. Through education, collaboration, and advocacy, we work to ensure a safe and sustainable food supply, support responsible farming practices, and build a healthy economy.

HB-451

Submitted on: 2/5/2019 10:05:41 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Leonard J. Vierra	East Kauai Soil & Water Conservation District	Support	No

Comments:

HB-451

Submitted on: 2/4/2019 4:33:00 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Karen Ah Mai/HACD	HACD	Support	No

Comments:

We support the funding of HACD, which provides needed state-supported technical assistance to farmers in all counties, but as a general fund program, not a special fund program. This funding is leveraged to at least 3 times through federal and other sources. Please save the agricultural and food safety net for the state by supporting this bill. Mahalo.



P.O. Box 253, Kunia, Hawai'i 96759
Phone: (808) 848-2074; Fax: (808) 848-1921
e-mail info@hfbf.org; www.hfbf.org

February 6, 2019

HEARING BEFORE THE
HOUSE COMMITTEE ON WATER, LAND & HAWAIIAN AFFAIRS
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

TESTIMONY ON HB 451
RELATING TO THE HAWAII ASSOCIATION OF CONSERVATION DISTRICTS

Room 325
10:30 AM

Aloha Chairs Yamane and Lowen, Vices Chair Todd and Wildberger, and Members of the Committees:

I am Brian Miyamoto, Executive Director 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 interests of our diverse agricultural community.

The Hawaii Farm Bureau strongly supports HB 451, which provides funding for the staffing and operations of the Hawaii Association of Conservation Districts (HACD).

HFB appreciates the support provided by the legislature to the Hawaii Association of Conservation Districts. This program is an excellent example of successful public-private partnerships that bring benefit not just to farmers and ranchers, but to everyone in the State of Hawaii. We support the position of HACD.

The Soil and Water Conservation Districts were founded by farmers who saw the value in implementing conservation practices. It was natural for them to protect the resources that provided nutrients for the growth of their crops and raising livestock.

Over the years, the Districts have also originated major water projects across the State bringing in Federal dollars to be matched by State resources. Today, we have two projects remaining and HACD continues to work with our Congressional Delegation to complete the Upcountry Dual line and the Lahaina Flood Control Projects. Drought mitigation is a major concern for farmers and ranchers. We are constantly looking for ways in which we can partner with USDA NRCS to implement programs in Hawaii.

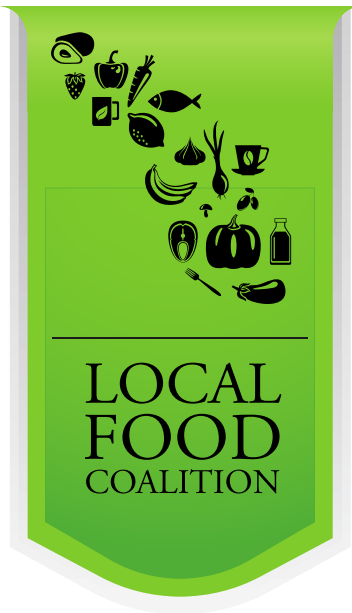
While the conservation districts are most often associated with the preparation and approval of conservation plans, the scope of their activities is much broader. As part of the National Association of Conservation Districts, we have access to material that can

help state agencies meet regulatory requirements. For example, those Counties involved in MS4 or Municipal Stormwater requirements by EPA, have education requirements. Each year, there is a focus area across the country. In 2017 topic was "Where does your Watershed?". The purpose of this outreach program was to educate children about where water comes from and the need to be cognizant about practices, such as oil discharges from your cars that may end up in the storm drain or dumping hazardous wastes where it can end up in streams. Programs like these are adopted by each district as part of their outreach. By funding the Districts, you contribute to their capacity to carry out these tasks.

Another example is Soil Judging. Each year, students across the state enter a contest to test their abilities to correctly identify, evaluate, classify, and describe soil profiles and their applicability for various uses including housing. Did you know that Hawaii students have consistently placed in National competitions that take place in Oklahoma each year? Through these experiences, students have developed an interest in pursuing careers in agriculture.

HFB strongly supports the position as stated by HACD. We agree that placing this funding as a line item in the DLNR budget is prudent. We respectfully request your strong support of funding the Hawaii Association of Conservation Districts and placing them as a line item in the DLNR budget under LNR 141.

Thank you for the opportunity to testify on this measure.



Hawai'i Aquaculture & Aquaponics Association

Hawai'i Cattlemen's Council

Hawai'i Farm Bureau Federation

Hawai'i Farmers' Union United

Hawai'i Food Industry Association

Hawai'i Food Manufacturers Association

Kohala Center

Land Use Research Foundation of Hawai'i

Malama Kaua'i

Maui School Garden Network

Ulupono Initiative

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

COMMITTEE ON WATER, LAND, & HAWAIIAN AFFAIRS AND
COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
Wednesday, February 6, 2019 – 10:30 AM - Room 325

**RE: HB 451 - Relating to The Hawaii Association of
Conservation Districts – In Support**

Aloha Chairs Yamane & Lowen, Vice Chairs Todd & Wildberger and members of the committees:

The Local Food Coalition **strongly supports HB 451**, which makes an appropriation from the special land and development fund to the Department of Land and Natural Resources for the operational expenses and staffing costs of the Hawaii Association of Conservation Districts.

The Local Food Coalition is an organization comprising of farmers, ranchers, livestock producers, investors and other organizations working to provide Hawaii's food supply.

The Hawaii Association of Conservation Districts (HACD) and the 16 Hawaii Soil and Water Conservations Districts (SWCD) play an important role in improving farm practices and ensuring the protection of Hawaii's environment. They assist farmers and ranchers with technical support, development and implementation of conservation plans, outreach and education. All of the SWCD Directors are volunteers. The demands of the HACD have increased and legislature's support of this \$500,000 request is vital to enable the HACD to continue its programs.

We respectfully request your support of HB 451. Thank you for the opportunity to submit testimony.

John Garibaldi
808-544-8319
jgaribaldi@wik.com

HB-451

Submitted on: 2/5/2019 8:30:56 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Rebekah	East and West Kauai Soil and Water Conservation Districts	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 8:32:52 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
J Ashman	Individual	Support	No

Comments:

HB-451

Submitted on: 2/4/2019 8:53:14 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Amos Meyers	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 8:38:09 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Reba O'Day	Individual	Support	No

Comments:

I support HB451, as a small family farmer in Haiku, Maui Hawaii and I would appreciate support from the state legislature.

HB-451

Submitted on: 2/5/2019 8:46:27 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jeff McConnel	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 8:50:52 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Keith Ranney	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 9:02:41 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Franz Weber	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 9:40:06 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jacqueline S. Ambrose	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 9:41:57 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Hannah Lutgen	Individual	Support	No

Comments:

Aloha,

As a state employee of the Hawaii Association of Conservation Districts I strongly support the HB451 bill with State General Funds as source of funding. HACD employees strive to uphold non-biased technical and financial services to all land-owners, farmers, ranchers and foresters. We work dilligently to encourage sustainable agricultural practices, assist with watershed protection projects and provide educational outreach to the community. Please acknowledge the continous work that HACD does to promote local food production and natural resource conservation by requesting that State General Funds provides ongoing funding for HACD staff.

Mahalo,

Hannah

HB-451

Submitted on: 2/5/2019 9:43:23 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Deborah Vial	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 9:44:15 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Christina Pegg	Individual	Support	No

Comments:

Aloha,

My name is Christina Pegg. I am a Farmer and Researcher on the Island of Maui. Thank you for the opportunity to provide testimony.

I am writing in support HB451 which states that HACD should continue to be funded by the state and not private entities. As HACD is a lobbying entity working to bring conservation programs to the legislature-- it is imperative that they not be funded by the private interest which would necessarily shift the dynamic of lobbying from the State's best interest (i.e. the people) to the a private entities' best interest (i.e. the company). It is imperative to uphold this relationship in order to uphold the integrity of our resources and research to watershed conservation, coral reef protection, and educational programs that help everyone and the AINA. HACD is currently funded by the State to carry out this role: connecting farmers, conservationist, etc. to government and government funds. Please support HB451 to assure that they can continue to do this necessary work of protecting our natural resources.

Christina Pegg
Researcher/Farmer
Graze & Sprout Farm

HB-451

Submitted on: 2/5/2019 9:58:13 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Michele Notestone	Individual	Support	No

Comments:

I am in support of Bill 451. It is of utmost importance to protect Hawaii's soil and water. My husband I have a small farm in the Hana area on Maui and have been working with NRCS in learning about the importance of soil and water conservation through their education with farmers. We are currently working to improve the farm (which is located on sloped land) with erosion control, identification and protection from invasive species, soil improvement, planting of natives and sustainable Agroforestry. Please consider how critical Bill 451 is to preserving and continuing to protect Hawaii's land and water.

Thank you,

Michele Notestone

HB-451

Submitted on: 2/5/2019 10:35:30 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
naomi	Individual	Support	No

Comments:

I am writing in Support of Bill 451 as I believe it is very important for all of these environmental programs and services to have stable funding that isnt influenced by private corporations or entities. I am happy if the government and my tax dollars supports and funds measured to protect our environment.

HB-451

Submitted on: 2/5/2019 10:48:03 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Gwen Morinaga-Kama	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 11:02:33 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Leslie Takayama	Individual	Support	No

Comments:

The activities of the sixteen Soil and Water Conservation Districts of Hawaii benefit all the people of Hawaii through planning and programs that reduce soil erosion and keep our water resources clean. This requires a consistent source of funding that this bill supports. Thank you

HB-451

Submitted on: 2/5/2019 12:41:33 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Maureen Datta	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 1:15:24 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jo Kimm	Individual	Support	No

Comments:

HB-451

Submitted on: 2/5/2019 2:31:54 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Eloise Engman	Individual	Support	No

Comments:

LATE

HB-451

Submitted on: 2/5/2019 4:14:35 PM
Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sunny Savage-Luskin	Individual	Support	No

Comments:

LATE

HB-451

Submitted on: 2/5/2019 6:52:01 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
irene plunkett	Individual	Support	No

Comments:

ALoha Legislatures..I am asking your support for HB451. Education on soil and water conservation is a core value, that affects everyone. We must fund these very importants conservation districts before its too late, and the damage that can occur will be irreversible.

Mahalo, Irene Plunkett-Mina

LATE

HB-451

Submitted on: 2/5/2019 7:52:41 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dennis F Lokmer	Individual	Support	No

Comments:

LATE

HB-451

Submitted on: 2/5/2019 9:30:34 PM

Testimony for WLH on 2/6/2019 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dale Sandlin	Hawaii Cattlemens Council	Support	No

Comments:

HB-451

Submitted on: 2/6/2019 3:44:08 AM

Testimony for WLH on 2/6/2019 10:30:00 AM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Suellen Barton	Maui Farmers Union United	Support	No

Comments: