

SB-833-SD-2

Submitted on: 3/13/2023 8:04:43 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Russell Tsuji	DLNR	Comments	Remotely Via Zoom

Comments:

Request for zoom link to testify on behalf of DLNR. Written testimony will be submitted on DLNR's Testimony account and additional staff will be present at the hearing. Thank you!

JOSH GREEN, M.D.
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAII'
DEPARTMENT OF LAND AND NATURAL RESOURCES
KA 'OIHANA KUMUWAIWAI 'ĀINA

P.O. BOX 621
HONOLULU, HAWAII 96809

DAWN N.S. CHANG
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE
MANAGEMENT

LAURA H.E. KAAKUA
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

Testimony of
DAWN N. S. CHANG
Chairperson

Before the House Committee on
WATER & LAND

Tuesday, March 14, 2023
9:30 AM

State Capitol, Conference Room 430, Via Videoconference

In consideration of
SENATE BILL 833, SENATE DRAFT 2
RELATING TO THE WAHIAWA IRRIGATION SYSTEM

Senate Bill 833, Senate Draft 2 proposes to: 1) require the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa Irrigation System on Oahu, which includes the Wahiawa Reservoir, Wahiawa Dam, and Ditch System; 2) authorize and appropriate moneys for the Department of Land and Natural Resources (Department), the Department of Agriculture (DOA), and the Agribusiness Development Corporation (ADC), (collectively, "Departments"), to purchase, repair and maintain the Wahiawa Irrigation System and associated spillway; and 3) appropriate funds four full time equivalent (4.0) FTE positions for the Department. **The Department offers the following comments on this measure, and proposes amendments.**

The Department appreciates the importance of Wahiawa Irrigation System to agriculture irrigation, flood control, wastewater management, and public recreation in central O'ahu. However, the Department does not support the inclusion of additional parcels for potential acquisition by the Department in Senate Draft 2 of the measure.¹ The Department is agreeable to including the parcels identified in Senate Draft 1 of the measure, which have been identified by the Department as relevant to public recreation. However, the Department does not believe that the additional parcels serve that objective, and the Department does not intend to acquire them. If those parcels serve other objectives of this measure, they should be acquired and owned by either DOA or ADC. As some of the additional parcels appear to have irrigation system infrastructure located on them, the Department does not have the resources to operate and maintain such

¹ The Department notes that ADC requested the inclusion of the additional parcels in their testimony to the Senate Committee on Ways and Means for Senate Draft 1.

infrastructure, nor would that be consistent with the Department's mission. The additional parcels at issue are identified as follows:

1. TMK (1) 7-3-005-005
2. TMK (1) 7-3-013-003
3. TMK (1) 7-1-001-013
4. TMK (1) 7-1-001-017
5. TMK (1) 7-1-012-003
6. TMK (1) 7-1-012-004
7. TMK (1) 7-1-012-007

The Department requests that these parcels be transferred to either sections 2(c) or 2(d) to be acquired by the DOA or ADC respectively.

The Department is grateful to the Senate Committee on Water and Land for including an appropriation to the Department to manage and maintain its portion of the irrigation system, i.e. the reservoir lands, including creating 4 FTE positions. As the amount was left blank, the Department respectfully requests that the appropriation ultimately provides the Department with an amount of \$500,000.00 to cover the expenses described above. Without this funding, the Department cannot proceed with its part of the acquisition as it simply does not have the resources to manage this area.

The Department further notes that there will be significant ongoing challenges to manage this area and that future recurring funding will be required. Given the significant management responsibilities that will involve multiple Department divisions, even 4 FTE positions may not be sufficient staff resources to adequately manage this area. Specifically, additional officers from the Department's Division of Conservation and Resources Enforcement (DOCARE) will be required to respond to homeless and other enforcement issues.

- a. The Department estimates that it would be responsible for managing approximately 206.5 additional acres resulting from this acquisition.
- b. The Department understands that as many as 50 homeless people or more occupy various areas of the parcels and a commitment of substantial resources will be required to manage the area to provide clean, safe recreational opportunities to the public.²
- c. In addition to addressing the homeless issue, the Department will need to manage the submerged land areas and approximately 20 miles of shoreline for public use by regularly removing trash, debris and other hazards, including aging Eucalyptus trees that abut the adjacent residential properties.
- d. To be effective, DOCARE may need to establish an office in the area to ensure 24/7 operations.

DOA and ADC request the appropriation of sufficient funds to ensure that ongoing maintenance, repairs, and operations can be performed during, and subsequent to, the performance of the mitigation, repair, and construction work required to bring the dam and spillway into compliance with the Department's Dam Safety Program.

² The Department also understands that there are more homeless in the general vicinity that may migrate to the subject parcels once they become publicly accessible.

For background, Wahiawa Dam was constructed in 1905 to create a great reservoir basin to capture waters in Kaukonahua Stream from the Koolau Mountains for a massive irrigation system for Central O‘ahu farming that continues to this day. The System generated hydroelectric energy and has received R2 wastewater from the nearby treatment plant of the City and County of Honolulu. Since 1957, through a cooperative agreement with Castle & Cooke, Inc., the Department has managed a public fishing area on Wahiawa reservoir and constructed and manages a boat ramp at the 66-acre Wahiawa State Freshwater Park.

The Wahiawa Irrigation System, which includes Lake Wilson, has a critical role in the economy of Hawai‘i by providing an essential input for agricultural production in the Wahiawa-Waiialua-Hale‘iwa area. Like for many other types of infrastructure such as roads, airports, harbors and power grid, the economic impact of an irrigation system is most crucial in the service it provides that makes possible for other economic activities to take place and thrive.

The Dam Safety Program regulates dams in Hawai‘i to ensure landowner compliance with dam safety laws and regulations. The Wahiawa Dam does not meet current dam safety standards and needs significant repairs to bring it into compliance. These deficiencies were first identified in the 1978 United States Army Corps of Engineers dam safety report. The current landowner was notified by the Dam Safety Program to remedy these issues in 2009 and has not taken all necessary actions to remediate the dam and bring it into compliance.

The Department, ADC and DOA agree that subject to the appropriation of sufficient funding and negotiations with the current owners of the pertinent lands covered by this measure, that: the Department may acquire and manage the parcels identified by the measure excluding the parcels on which the dam facility including the spillway are situated and the irrigation system infrastructure that serves to deliver water (dam, spillway, outlet works, ditches, etc.); ADC may acquire and manage the irrigation system infrastructure needed for water delivery; and DOA may acquire and manage the dam and spillway and the parcels on which the dam, spillway and appurtenant features are situated. The three Departments acknowledge that acquisition and control of the Wahiawa Irrigation System by the State serves critically important public purposes for the State. The Wahiawa State Freshwater Park is adjacent to the subject parcels and the Department’s Division of Aquatic Resources uses the reservoir for recreational fishing programs that serve about 1,500 fishers annually. The irrigation system provides essential water infrastructure for agricultural users in the region who are engaged in activities that support local food production and is a key component in achieving the State’s food sustainability goals.

The three Departments note that the State must perform its due diligence for the acquisition. Some of the items required would be a survey map and description, title reports for all the parcels, and a Phase I Environmental Site Assessment (ESA) to determine whether any hazardous materials or other contaminants are present of the parcels, and a Phase II ESA if necessary. The three Departments also note that Parcel (1) 7-3-007:001 which consists largely of the Lake Wilson submerged lands, also appears to have portions of the irrigation system infrastructure, such as a portion of the dam and the outlet works located on it. As the measure contemplates the fee simple acquisition of these improvements by DOA, subdivision of this parcel may be required to achieve the intent of this measure.

Finally, the three Departments note that the final land acquisitions will be determined during negotiations and are subject to review and approval by the boards of the respective agencies.

Mahalo for the opportunity to comment on this measure.

JOSH GREEN, M.D.
Governor

SYLVIA LUKE
Lt. Governor



JAMES J. NAKATANI
Executive Director

STATE OF HAWAII
AGRIBUSINESS DEVELOPMENT CORPORATION

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TESTIMONY OF JAMES J. NAKATANI
EXECUTIVE DIRECTOR
AGRIBUSINESS DEVELOPMENT CORPORATION

BEFORE THE COMMITTEE ON WATER & LAND

Tuesday, March 14, 2023

9:30 a.m.

Conference Room 430

Videoconference

SENATE BILL NO. 833 S.D. 2
RELATING TO WAHIAWA IRRIGATION SYSTEM

Chair Ichiyama, Vice Chair Poepoe and Members of the Committee:

Thank you for the opportunity to testify on Senate Bill No. 833 S.D. 2. The Agribusiness Development Corporation (ADC) supports this measure, which requires the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa irrigation system on the island of Oahu. The measure also authorizes and appropriates funds for the Department of Agriculture, Agribusiness Development Corporation, and Department of Land and Natural Resources to purchase, repair, and maintain the Wahiawa irrigation system and the associated spillway.

There are other stakeholders besides agriculture that have a vested interest in the Wahiawa Irrigation System known as Lake Wilson. Though the intent of this measure is to preserve the Wahiawa Irrigation System, the lake

currently serves as a state freshwater recreational resource and there is the substantial matter of health and safety to the community as the dam has functioned as flood mitigation for residents and businesses downstream. The dam and spillway are facing ongoing regulatory and legal challenges, which has been confirmed in discussions with the State Attorney General's Office. We strongly believe the acquisition of Lake Wilson and the irrigation system should be a policy decision made and coordinated by the Office of the Governor to address and resolve any long-standing issues collectively. We support appropriating funds to repair and expand the spillway associated with the Wahiwawa irrigation system and to bring the spillway into compliance with all relevant dam safety requirements. These are critical safety issues that need to be addressed immediately.

We would also like to note that we support this bill provided that its passage does not replace or adversely impact priorities indicated in our Executive Budget. Thank you for your consideration of our testimony.

JOSH GREEN, M.D.
Governor

SYLVIA LUKE
Lt. Governor



SHARON HURD
Chairperson, Board of Agriculture

MORRIS M. ATTA
Deputy to the Chairperson

State of Hawai'i
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TESTIMONY OF SHARON HURD
CHAIRPERSON, BOARD OF AGRICULTURE

BEFORE THE HOUSE COMMITTEE ON
WATER AND LAND

MARCH 14, 2023
9:30 AM
CONFERENCE ROOM 430

SENATE BILL NO. 833 SD2
RELATING TO THE WAHIAWA IRRIGATION SYSTEM

Chairperson Ichiyama and Members of the Committee:

Senate Bill 833 SD2 proposes to require the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa Irrigation System ("WIS") on the island of Oahu, which includes the Wahiawa reservoir, Wahiawa dam, and ditch system; and authorize and appropriate moneys for the Department of Agriculture (DOA), Agribusiness Development Corporation (ADC), and the Department of Land and Natural Resources (DLNR) (collectively, "Departments") to purchase, repair and maintain the Wahiawa Irrigation System and associated spillway. **DOA SUPPORTS this measure and offers clarifying comments.**

DOA appreciates the importance of the Wahiawa Irrigation System, Wahiawa Dam and Lake Wilson Reservoir to agriculture irrigation, flood control, wastewater management, and public recreation. DOA shall acquire the dam and spillway and the parcel on which the spillway is situated, until the appropriate and necessary repairs and rehabilitation are completed, at which time, those assets and other responsibilities will be transferred to ADC.

Clarifying previous testimony, the Department understands that the bill includes language in Section 5 that ADC will manage and maintain its acquired portion of the WIS. Clarifying previous testimony, DOA understands there will be sufficient funds to perform the upgrading of the dam and spillway and is retracting the request for \$1.5 million in each of the upcoming biennium years to perform ongoing operations and maintenance while the dam and spillway are being rehabilitated.

Thank you for the opportunity to comment on this measure.





Email: communications@ulupono.com

HOUSE COMMITTEE ON WATER & LAND
Tuesday, March 14, 2023 — 9:30 a.m.

Ulupono Initiative supports SB 833 SD2, Relating to the Wahiawa Irrigation System.

Dear Chair Ichiyama and Members of the Committee:

My name is Micah Munekata, and I am the Director of Government Affairs at Ulupono Initiative. We are a Hawai'i-focused impact investment firm that strives to improve quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food; renewable energy and clean transportation; and better management of freshwater and waste.

Ulupono supports SB 833 SD2, which requires the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa Irrigation System on the island of Oahu; authorizes and appropriates funds for the Department of Agriculture, Agribusiness Development Corporation, and Department of Land and Natural Resources to purchase, repair, and maintain the Wahiawa Irrigation System and the associated spillway; and, appropriates funds for four full-time equivalent (4.0 FTE) positions for the Department of Land and Natural Resources.

Ulupono supports funding for critical agricultural infrastructure across the State. The Wahiawa Irrigation System provides critical water access to local producers in the region. The system also provides recreation to the local community under the jurisdiction of the Department of Land and Natural Resources. It is prudent for the State to acquire the Wahiawa Irrigation System to support both recreation and production agriculture, therefore some sort of collaborative agreement across multiple state departments may be necessary. Having such an important system abandoned, or sold to a private entity, may have drastic ripple effects to local agriculture and communities alike. We support keeping this water resource within the purview of the State and maintaining affordable water access island-wide.

It is important to note that there are other maintenance and repair projects proposed in the Hawai'i Department of Agriculture's CIP Budget that also merit strong consideration by the Legislature. Agricultural water system infrastructure (irrigation systems) is an essential component of our state's efforts to achieve its goals of increasing local food production and food security. This is affirmed in the DOA's 2019 Agricultural Water Use and Development Plan (AWUDP), which documents how Hawai'i's agricultural industry relies on these water systems to deliver inexpensive water to meet and expand agricultural production even during times of drought. The DOA has identified agricultural water systems as the most important infrastructural requirement needed to expand Hawai'i's diversified agriculture industry. However, most of the large-scale irrigation systems in the state are or will soon be more than 100 years old.

Investing in a Sustainable Hawai'i

Additionally, according to the Association of State Dam Safety Officials' latest Dam Safety Performance Report, more than a third of Hawai'i's dams are rated either in poor or unsatisfactory condition.

In the AWUDP, the DOA estimates the five-year cost of repairs and maintenance for Hawai'i's most critical agricultural water systems at approximately \$168 million - of that amount, about \$90 million is needed specifically for DOA-managed agricultural water systems over that same period. This is substantial for our small state, requiring an average of more than \$33 million per year for five years. While the price tag to repair and maintain these systems may seem high, the cost to replace these plantation-era water systems would be in the billions of dollars. More importantly, continuing to let these systems fall into disrepair puts Hawai'i's food security at risk, particularly the food security of the next generation who will be forced to adapt to a hotter and dryer planet.

Climate Change in Hawai'i

The importance of well-maintained agricultural water systems becomes even greater when the impacts of climate change on Hawai'i's food security are considered. In April 2021, Hawai'i became the first state to declare a climate emergency, when the State Legislature passed [Senate Concurrent Resolution 44 SD1 HD1](#), which also requested "statewide collaboration toward an immediate just transition and emergency mobilization effort to restore a safe climate."

The people of Hawai'i are seeing first-hand local impacts consistent with the effects of climate change: rising air temperatures; decreased rainfall and stream flow; increased rain intensity; increased frequency of drought; and increased frequency of powerful storms. For example:

- Since 1950, temperatures across the Hawaiian Islands have been on the rise, ranging from increases of 0.2 to 0.4 degrees Fahrenheit per decade;
- The annual total precipitation measured at Hilo International Airport decreased by nearly 20 inches since 1950—the most among Hawai'i's four major airports;
- Rain intensity is becoming as much a destructive factor as drought, with the amount of rain falling in the very heaviest downpours from 1958 to 2007 increasing by approximately 12%;
- The area in Hawai'i burned annually by wildfires has increased four-fold in recent decades, according to University of Hawai'i wildland fire researcher Clay Trauernicht; and
- Powerful storms are anticipated to become more frequent, as warmer climates tend to amplify existing weather patterns and variability, according to Hawai'i's state climatologist, Pao-Shin Chu.

These are each detrimental to local food production on their own; and yet, as an isolated island state we are also susceptible to climate change impacts far from our shores due to Hawai'i's continuing over-reliance on food from imports.

Irrigation Infrastructure IS Part of Climate Change Adaptation

For international and domestic food producers, meeting the global demand of a projected 10 billion people by 2050—an increase of 2.3 billion people over just a quarter of a century—will become increasingly challenging as the Earth's climate continues to warm. Some estimate this will require an increase in global food production of 60%, if we are to ensure enough food for all.



In the Biden Administration’s fact sheet outlining the Infrastructure Investment and Jobs Act, the White House highlighted investments in **infrastructure to make communities more resilient to the impacts of climate change, including** “funds to protect against droughts and floods...”

Irrigation plays an essential role in increasing food production and is an effective method of climate change adaptation. Globally, irrigated land represents only 16% of arable land, but produces 44% of total crop production. For most crops, irrigation can double or triple crop yields. For example, irrigated crop yields for corn, soybean, and wheat are 165%, 75%, and 140% higher than rain-fed yields. In regards to climate change adaptation, irrigation systems mitigate the impact of decreasing rainfall, increasing frequency of drought, and increasing temperatures; and irrigation can help capture more rainfall during storm events, so that water can be used in the future.

According to research by The Nature Conservancy, climate change will bring increased moisture deficits across the United States. Nationally, the total area irrigated will need to increase by 11-54 million acres (an increase of 19-94%) by 2090 in order to maintain food production.

The DOA’s AWUDP plan concludes: “The investment into these agricultural water systems is the key to provide adequate water to continue to grow diversified agriculture. As the saying goes, ...without water there is no agriculture..., which is the reason these agricultural water systems were originally constructed—and why they need to be maintained for another 100 years.”

We strongly agree. For generations to come, local food production will depend on these systems and their ability to provide water for local farmers and ranchers. This represents a singular opportunity to make Hawai‘i more self-sufficient and resilient.

Thank you for this opportunity to testify.

Respectfully,

Micah Munekata
Director of Government Affairs



March 10, 2023

Representative Linda Ichiyama, Chair
Representative Mahina Poepoe, Vice Chair
House Committee on Water & Land

Comments in Support of SB 833, S.D. 2 Relating to Wahiawa Irrigation System (Requires the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa irrigation system on the island of Oahu. Authorizes and appropriates funds for the Department of Agriculture [DOA], Agribusiness Development Corporation [ADC], and Department of Land and Natural Resources [DLNR] to purchase, repair, and maintain the Wahiawa irrigation system and the associated spillway. Appropriates funds for the DLNR to manage and maintain its acquired portion of the irrigation system and to establish four full-time equivalent [4.0 FTE] positions for the DLNR. Effective 7/1/2050.)

**Tuesday, March 14, 2023, 9:30 a.m.
State Capitol, Conference Room 430, Via Videoconference**

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 utility companies. 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 express its **support of SB 833, S.D. 2**, and of the various agricultural stakeholder groups who defend the goals of viable agricultural operations and the conservation and protection of agriculture, including important agricultural lands (IAL) in Hawaii.

SB 833, S.D. 2. This bill proposes to authorize the DOA, DLNR, and ADC to acquire the Wahiawa irrigation system, on terms negotiated and agreed upon by the office of the governor, and to purchase, repair, and maintain the associated spillway; and to appropriate funds for the DLNR to manage and maintain its acquired portion of the irrigation system, and establish 4.0 FTE positions for the DLNR to effectuate these purposes.

LURF's Position. Well-functioning irrigation systems are vital to Hawaii's agricultural industry to ensure that the State's agricultural crops receive a reliable and consistent supply of water to support and maintain productivity. LURF understands that the Wahiawa irrigation system, which was originally built by the Wahiawa Sugar Company, was created with a dam and freshwater reservoir, and that the dam is essential to agriculture since water in the reservoir provides irrigation to farmers in Wahiawa, Waialua, and Haleiwa. In order to ensure that these local farmers may continue to receive a dependable supply of water for crops, funding is necessary to improve, repair and maintain the Wahiawa irrigation system.

Local farmers and ranchers who rely on irrigation systems to service their agricultural lands consider such resources critical to conduct their agricultural operations and to sustain their businesses. These agricultural stakeholders believe measures such as SB 833, S.D. 2 will greatly assist by providing funding and support necessary to make improvements to irrigation systems for the long-term betterment of the State's agricultural industry and are relying on legislation such as this to help them work toward the expansion of diversified agriculture; promote the agricultural self-sufficiency of the State; and to protect water as a valuable and significant resource.

For the above reasons, LURF **supports SB 833, S.D. 2**, and respectfully urges your favorable consideration.

Thank you for the opportunity to provide comments in support of this matter.



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March 14, 2023

HEARING BEFORE THE
HOUSE COMMITTEE ON WATER & LAND

TESTIMONY ON SB 833, SD2
RELATING TO THE WAHIAWA IRRIGATION SYSTEM

Conference Room 430 & Via Videoconference
9:30 AM

Aloha Chair Ichiyama, Vice Chair Poepoe, and Members of the Committee:

I am Brian Miyamoto, Executive Director of the Hawai'i Farm Bureau (HFB). Organized since 1948, the HFB is comprised of 1,800 farm family members statewide and serves as Hawai'i's voice of agriculture to protect, advocate and advance the social, economic, and educational interests of our diverse agricultural community.

The Hawai'i Farm Bureau supports SB 833, SD2, which requires the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa irrigation system on the island of Oahu and authorizes and appropriates moneys for the Department of Agriculture, Agribusiness Development Corporation, and Department of Land and Natural Resources to purchase, repair, and maintain the Wahiawa irrigation system and the associated spillway and appropriates funds four full-time equivalent (4.0 FTE) positions for the Department of Land and Natural Resources.

The Wahiawa Irrigation System is critical for Oahu farmers and ranchers that depend on it for their operations. Water availability is a basic necessity for farmers and ranchers to maintain and expand their production, particularly in times of drought manifested on many islands as a result of a changing climate. Moreover, a reliable water supply is a key factor when Hawai'i's farmers and ranchers are making decisions to start new or to expand existing operations.

The Dole Food Company has listed the Wahiawa Irrigation System for sale. We can't afford to lose this critical agricultural water source. No farming entity can afford the \$20,000,000 listed price. We are concerned about the potential impact on farmers if a private individual or entity purchases the system. They may raise water rates or even discontinue supplying water to farmers.

Oahu growers, especially those in Waialua and Haleiwa, need the reliable source of water that the Wahiawa Irrigation System provides, to continue to produce cabbage, bell pepper, tomato, cucumber, taro, eggplant, okra, papaya, citrus, avocado, banana, dragon fruit, watermelon, and green onion, and to expand production to better serve our communities.

Thank you for the opportunity to testify in support of this measure.



INTERNATIONAL LONGSHORE & WAREHOUSE UNION

LOCAL OFFICE • 451 ATKINSON DRIVE • HONOLULU, HAWAII 96814 • PHONE 949-4161

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MAUI COUNTY DIVISION: 896 Lower Main Street, Wailuku, Hawaii 96793 • KAUAI DIVISION: 4154 Hardy Street, Lihue, Hawaii 96766
HAWAII LONGSHORE DIVISION: 451 Atkinson Drive, Honolulu, Hawaii 96814

LOCAL 142

March 13, 2023

The Thirty-Second Legislature
Regular Session of 2023

THE HOUSE OF REPRESENTATIVES

Committee on Water & Land

Rep. Linda Ichiyama, Chair

Rep. Mahina Poepoe, Vice Chair

State Capitol, Conference Room 430 & Videoconference

Tuesday, March 13, 2023; 9:30 A.M.

STATEMENT OF THE ILWU LOCAL 142 ON S.B. 833 – RELATING TO THE WAHIAWA IRRIGATION SYSTEM

The ILWU Local 142 strongly **supports** S.B. 833, SD2 which requires the Office of the Governor to negotiate the State's fee simple acquisition of Wahiawa Irrigation System (WIS), otherwise known as Lake Wilson. The measure allows the Department of Agriculture, Agribusiness Development Corporation and the Department of Land and Natural Resources to authorize and appropriate funds to purchase, repair and maintain the Wahiawa Irrigation System and associated spillway.

WIS serves as an important freshwater resource for local agriculture. The dam and spillway are critical structures that prevent flooding for residential and business areas. The condition of the WIS has been rapidly deteriorating and has fallen out of compliance with safety requirements. We believe that the State should take control of the WIS as it would protect local agriculture and make the necessary improvements to make the area safe for residents and businesses.

Thank you for the opportunity to testify on this matter.

Respectfully,

Christian West
President



**TESTIMONY IN SUPPORT WITH AMENDMENTS OF SENATE BILL 833
RELATED TO THE WAHIAWA IRRIGATION SYSTEM**

HOUSE COMMITTEE ON WATER AND LAND
FEBRUARY 14, 2023
9:30 AM

On behalf of Dole Food Company Hawaii, a division of Dole Food Company, Inc., we are submitting testimony in support of Senate Bill 833 SD2.

The Wahiawa Irrigation System (WIS) is essential to continued agricultural production in Central and North Oahu. Dole has offered the system to the State. The funding in this bill is essential to making required upgrades to the system. Without this bill, the system will be decommissioned.

We are grateful to the State for stepping in to avoid this situation and are in strong support of this measure.

The decommissioning of this system would be catastrophic to agriculture and food production in Central Oahu. It would also mean the loss of the flood control and recreational assets that the State and the community now enjoy and the loss of irrigation water for a major portion of agricultural production on Oahu. It is economically unfeasible for Dole to pay for the state-mandated upgrades to the system, which is why Dole would decommission if forced to keep the system. This would in turn require Dole to close its farming operations. We do not want to do either.

It is for this reason that Dole is prepared to gift the system for no cost in exchange for delivery of a maximum 6 MGD of irrigation water at no cost, which is the necessary amount to keep its agricultural operations going in Central Oahu. Dole will only draw what is needed each day. The system currently delivers about 4 MGD to other users for a total of 10 MGD on average. Currently the maximum daily outflow is 20 MGD. This can be increased with future improvements. The reservoir holds 3 billion gallons, water is abundant for future use opportunities. To fund the cost to expand the spillway the State will be able to access federal infrastructure funds that a private owner cannot access.

This system currently serves fifty farmers with over 500 farm jobs and will serve more in the future once the State of Hawaii Agribusiness Corporation lands are fully leased out in Central and North Oahu. For food security it is essential that Hawaii expands agricultural production, and this is an opportunity for the State to do just that.

Over the last few months, Dole has conducted extensive outreach to the Central and North Oahu communities regarding the WIS and proposal to transfer the system to the State. Both the Wahiawa Neighborhood Board and North Shore Neighborhood Board



voted in support of this proposal. We have obtained over 1,000 signatures in support of the proposal (a full copy of the petition and its signatures is available upon request). We have also collected numerous letters of support from nonprofits, farmers, and other stakeholder groups. A sample was included in our previous testimony to WTL/AEN.

In addition to the current uses of this system the future uses could include hydroelectricity to meet State of Hawaii renewable energy goals and possibly power a water purification system that can provide potable water security to the island of Oahu as our aquifers face threats from contamination and saltwater intrusion from over pumping.

WIS is a historically important asset for Oahu and the State of Hawaii and this opportunity for the State to own, manage, and improve the system is critical to agriculture, flood control, energy security, and water security. The WIS is a public good and should be owned by the public. I urge you to pass this bill and capitalize on this opportunity.

Thank you for your consideration.
Dan Nellis
General Manager



INTERNATIONAL LONGSHORE & WAREHOUSE UNION

LOCAL OFFICE • 451 ATKINSON DRIVE • HONOLULU, HAWAII 96814 • PHONE 949-4161

HAWAII DIVISION: 100 West Lanikoula Street, Hilo, Hawaii 96720 • OAHU DIVISION: 451 Atkinson Drive, Honolulu, Hawaii 96814
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HAWAII LONGSHORE DIVISION: 451 Atkinson Drive, Honolulu, Hawaii 96814

LOCAL 142

THE CITY AND COUNTY OF HONOLULU

NEIGHBORHOOD COMMISSION OFFICE

North Shore Neighborhood Board No. 27

Kathleen M. Pahinui, Chair
925 Dillingham Blvd. Suite 160
Honolulu, Hawaii 96817
Kcalohalani1111@gmail.com

North Shore Neighborhood Board Regular Meeting
Tuesday, November 22, 2022; 7:00 p.m.

Dear Ms. Pahinui:

The ILWU Local 142 **supports** the transfer of Wahiawa Reservoir and the Wahiawa Irrigation System (WIS) to the State of Hawaii.

Thank you for the opportunity to share our view on this matter.

Christian West
President, ILWU Local 142

/sai
howu





LULUKU

FARMERS' ASSOCIATION

TO:

Governor Josh Green

DATE:

December 10, 2022

Dear Governor Green,

I am writing to support the transfer of the Wahiawa Irrigation System to the state. As a farmer on the windward side of Oahu, I know how important water is to a thriving farm. We are fortunate on the windward side that we have streams and water sources that naturally feed our crops. Central Oahu and the North Shore do not all enjoy this same benefit.

As a lifelong farmer and the father to nine children who were all born raised on our farm, I can assure you that farming is truly endangered in Hawaii. Without the support of the state and nonprofits who have helped to keep our farming efforts going, I don't know that I'd still be able to farm today.

Other Oahu communities are also deserving of the state's support. We work very hard to feed our families and our communities. We don't mind long hours and hard work, we only ask that the state support our farming efforts so we can increase food security in our islands.

Hawaii's farming community is a small but proud one. We all know each other and support each other. This is a wonderful community that helps to preserve our local culture and country communities. I urge you to act to protect our farming communities.

Mahalo,

Mark Stride

Farmer, Luluku Farmers' Association



mpaikulstride@gmail.com



NORTH SHORE NEIGHBORHOOD BOARD NO. 27

c/o NEIGHBORHOOD COMMISSION • 925 DILLINGHAM BOULEVARD SUITE 105 • HONOLULU, HAWAII, 96817
TELEPHONE: (808) 768-3710 • FAX: (808) 768-3711 • INTERNET: <http://www.honolulu.gov/nco>

December 23, 2022

Daniel X. Nellis
General Manager
Dole Food Co. Hawaii
1116 Whitmore Ave.
Wahiawa, HI, 96786

Re: Letter Regarding Support for Transferring the Wahiawa Reservoir and Irrigation System to the State of Hawaii

Aloha Mr. Nellis:

Mahalo for your presentation to the North Shore Neighborhood Board #27 at our November 22, 2022 meeting. Per the board, we support your request to have the reservoir and irrigation system transferred / sold to the State of Hawaii.

Per comments from the board and community, will an Environmental Assessment or Impact Study be needed for the purchase? We are concerned about legacy chemicals from pineapple that would be in the sediment at the bottom of the dam. In addition, we want to ensure that all users of the irrigation water are kept informed about the status of the dam, transfer and any other potential impacts that could affect their farms and use of the water.

Please keep us posted on your progress and the outcome of any decisions.

Mālama 'āina


Kathleen M. Pāhinui
Chair, North Shore NB #27



Save O'ahu Agriculture

by: [Save O'ahu Ag](#)

recipient: Governor Josh Green

1,046 SUPPORTERS

2,000 GOAL

Ola i ka Wai. Water is life.

The State of Hawaii is poised to acquire the Wahiaiwā Irrigation System (WIS), which is main water source for central and north O'ahu. This system is also essential to protecting the livelihoods of the many farmers who keep agriculture alive in this region.

The aging system needs to be upgraded. Dole Foods Hawaii, the current owner of the system, has offered the irrigation system to the state for free, as long as the state takes on the responsibility of making the necessary upgrades.

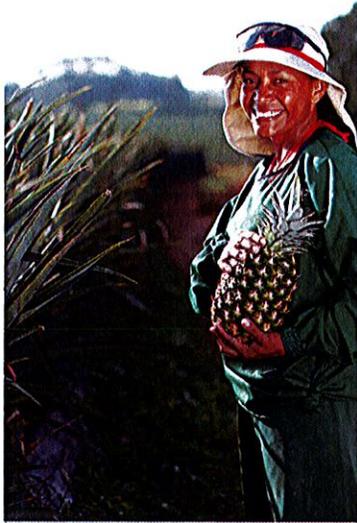
Fresh water is a public trust resource. This water rightfully belongs with the state and under state management. Should the state fail to accept the donated irrigation system, the alternative is for the system to be decommissioned, which would effectively close Dole Food Hawaii operations and agriculture water distribution to farmers in central and north O'ahu. The loss of agricultural activity in this region would be devastating to Hawaii's local food industry and sustainability goals.

Please help inspire our new Governor Josh Green to become a champion for local agriculture and food security in Hawai'i by saving the Wahiaiwā Irrigation System and agriculture in central and north O'ahu.

URGENT ACTION NEEDED!

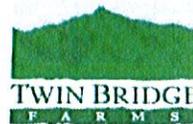
About History How to Help **Supporters** Contact

[Sign our petition today!](#)



Meet our Farmers and Supporters

The Wahiawā Irrigation System supports a thriving community of farmers. The historic agricultural communities in central and north O’ahu are defined by their charm and rural nature. Agriculture is critical to these small communities, which serve as an important hub for Hawaii’s food security and local food production.

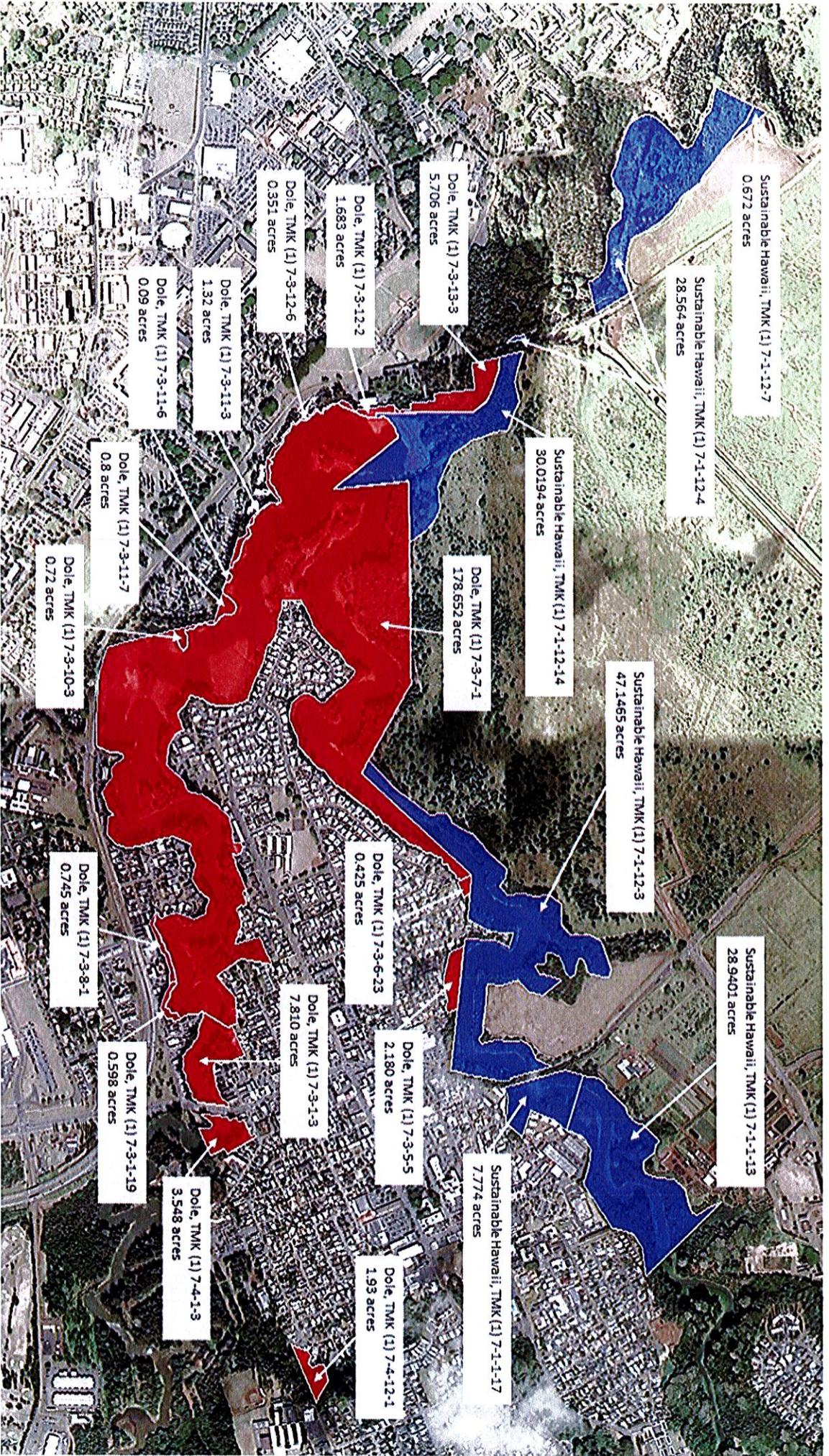


MOHALA MO' BETTAI



North Shore EVP
A Community Economic Vitality Partnership

Mokuleia Farms
Lovan Taro Company
Nine Fine Mynahs Cacao
Sustainable Hawaii



SB-833-SD-2

Submitted on: 3/12/2023 6:11:00 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Collin Mansanas	Individual	Support	Written Testimony Only

Comments:

In strong support of SB833

SB-833-SD-2

Submitted on: 3/12/2023 7:16:29 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Dane Kaluhiwa	Individual	Support	Written Testimony Only

Comments:

Support

SB-833-SD-2

Submitted on: 3/12/2023 7:17:29 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
DANIEL ORTIZ	Individual	Support	Written Testimony Only

Comments:

I support bill SB833

SB-833-SD-2

Submitted on: 3/12/2023 7:17:30 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Keoni Mendiola	Individual	Support	Written Testimony Only

Comments:

I Keoni Mendiola, is in full Support of Bill SB833.

SB-833-SD-2

Submitted on: 3/12/2023 7:17:55 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Montgomery Meyer	Individual	Support	Written Testimony Only

Comments:

I support.

SB-833-SD-2

Submitted on: 3/12/2023 7:20:18 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kelsey Beck	Individual	Support	Written Testimony Only

Comments:

I SUPPORT

SB-833-SD-2

Submitted on: 3/12/2023 7:21:52 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Zorich Palimoo	Individual	Support	Written Testimony Only

Comments:

I strongly support SB833

SB-833-SD-2

Submitted on: 3/12/2023 7:23:42 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Robert Enriquez	Individual	Support	Written Testimony Only

Comments:

Strongly support!!! SB833

SB-833-SD-2

Submitted on: 3/12/2023 7:25:34 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
B. Hansen	Individual	Support	Written Testimony Only

Comments:

I support SB833.

SB-833-SD-2

Submitted on: 3/12/2023 7:31:45 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Blair Nahale	Individual	Support	Written Testimony Only

Comments:

I support sb 833

SB-833-SD-2

Submitted on: 3/12/2023 7:43:45 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Alfred Horner	Individual	Support	Written Testimony Only

Comments:

I Alfred Horner support the SB833

SB-833-SD-2

Submitted on: 3/12/2023 7:59:10 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
zachary matsunaga	Individual	Support	In Person

Comments:

i support!

SB-833-SD-2

Submitted on: 3/12/2023 8:11:14 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Aaron Miyashiro	Individual	Support	Written Testimony Only

Comments:

Support SB833

SB-833-SD-2

Submitted on: 3/12/2023 8:14:15 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Sierra Revilla	Individual	Support	Written Testimony Only

Comments:

I support this bill

SB-833-SD-2

Submitted on: 3/12/2023 8:17:47 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Wade Terlep	Individual	Support	Written Testimony Only

Comments:

Strongly support

SB-833-SD-2

Submitted on: 3/12/2023 8:31:05 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
anthony padilla	Individual	Support	Written Testimony Only

Comments:

In support sb833

SB-833-SD-2

Submitted on: 3/12/2023 8:37:02 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Jonovan Tuinei	Individual	Support	Written Testimony Only

Comments:

I support sb833.

SB-833-SD-2

Submitted on: 3/12/2023 8:39:55 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Stephen Paling IV	Individual	Support	Written Testimony Only

Comments:

I support SB833

SB-833-SD-2

Submitted on: 3/12/2023 9:09:47 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Lawrence DeCosta III	Individual	Support	Written Testimony Only

Comments:

I am in support

thank you

SB-833-SD-2

Submitted on: 3/12/2023 9:29:11 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Sam	Individual	Support	Written Testimony Only

Comments:

In support of this bill

SB-833-SD-2

Submitted on: 3/12/2023 9:31:49 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Matthew Coleman	Individual	Support	Written Testimony Only

Comments:

Vital

SB-833-SD-2

Submitted on: 3/12/2023 9:46:50 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Jay Amina III	Individual	Support	Written Testimony Only

Comments:

I support SB833.

SB-833-SD-2

Submitted on: 3/12/2023 9:47:50 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kawika Kekuawela	Individual	Support	Written Testimony Only

Comments:

I fully support this bill

SB-833-SD-2

Submitted on: 3/12/2023 9:48:32 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Nathan Dudoit	Individual	Support	Written Testimony Only

Comments:

I strongly support SB 833 and urge the committee to vote in favor of its passing. Thank you

SB-833-SD-2

Submitted on: 3/12/2023 9:57:17 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kaipo Sarkissian Jr	Individual	Support	Written Testimony Only

Comments:

I am in strong support of this bill

SB-833-SD-2

Submitted on: 3/12/2023 10:04:09 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kale Ornellas	Individual	Support	Written Testimony Only

Comments:

I am in strong support of the irrigation u see control of the state.

SB-833-SD-2

Submitted on: 3/12/2023 10:11:01 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Lybrina Kealoha	Individual	Support	Written Testimony Only

Comments:

I fully support this bill

SB-833-SD-2

Submitted on: 3/12/2023 10:11:20 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Brandon Parker	Individual	Support	Written Testimony Only

Comments:

I support this bill

SB-833-SD-2

Submitted on: 3/12/2023 10:22:32 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
David Maeva	Individual	Support	Written Testimony Only

Comments:

I strongly support this bill

SB-833-SD-2

Submitted on: 3/12/2023 10:43:02 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Falaniko Vitale	Individual	Support	Written Testimony Only

Comments:

I'm in support for SB833!

SB-833-SD-2

Submitted on: 3/12/2023 11:18:34 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Tyler Yuu	Individual	Support	Written Testimony Only

Comments:

Support

SB-833-SD-2

Submitted on: 3/12/2023 11:39:16 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Pita Hiko	Individual	Support	Written Testimony Only

Comments:

I fully support SB833

SB-833-SD-2

Submitted on: 3/12/2023 11:42:13 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Pomai Kalama	Individual	Support	Written Testimony Only

Comments:

I support SB833 !

SB-833-SD-2

Submitted on: 3/12/2023 12:18:28 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Seth Holck	Individual	Support	Written Testimony Only

Comments:

In support of sb833

SB-833-SD-2

Submitted on: 3/12/2023 12:53:00 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Hopena Pokipala	Individual	Support	Written Testimony Only

Comments:

I strongly support SB833

SB-833-SD-2

Submitted on: 3/12/2023 1:08:52 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ashkhon Kuhaulua	Individual	Support	Written Testimony Only

Comments:

I support SB833

SB-833-SD-2

Submitted on: 3/12/2023 1:49:17 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Kaleo Buck	Individual	Support	Written Testimony Only

Comments:

I support SB833

SB-833-SD-2

Submitted on: 3/12/2023 2:58:55 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
David Chew	Individual	Support	Written Testimony Only

Comments:

Chair Ichiyama and members of the committee,

I strongly support SB833 SD2 which would require the Office of the Governor to negotiate the State's fee simple acquisition of the Wahiawa irrigation system on the island of Oahu.

Thank you for the opportunity to provide testimony.

SB-833-SD-2

Submitted on: 3/12/2023 4:23:48 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Micah Kahumoku	Individual	Support	Written Testimony Only

Comments:

I support SB833

SB-833-SD-2

Submitted on: 3/12/2023 4:32:47 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ian Peiler	Individual	Support	Written Testimony Only

Comments:

I support

SB-833-SD-2

Submitted on: 3/12/2023 5:46:40 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Jacob Ramos	Individual	Support	Written Testimony Only

Comments:

I strongly support Bill SB833

SB-833-SD-2

Submitted on: 3/12/2023 6:25:48 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Robert Like	Individual	Support	Written Testimony Only

Comments:

I, Robert Like, support SB 833.

SB-833-SD-2

Submitted on: 3/12/2023 11:23:02 PM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Daniel Tangonan	Individual	Support	Written Testimony Only

Comments:

I am in support of this bill. Mahalo

SB-833-SD-2

Submitted on: 3/13/2023 6:15:59 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Robert Decker	Individual	Support	Written Testimony Only

Comments:

In SUPPORT of the bill

SB-833-SD-2

Submitted on: 3/13/2023 6:24:55 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Ikaika	Individual	Support	Written Testimony Only

Comments:

In support of SB833

SB-833-SD-2

Submitted on: 3/13/2023 6:32:16 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Daylan Saniatan	Individual	Support	Written Testimony Only

Comments:

In support of this bill.

SB-833-SD-2

Submitted on: 3/13/2023 8:31:07 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
ROYALE KOMOMUA	Individual	Support	Written Testimony Only

Comments:

I'm in support of SB833 Wahiawa Irrigation because it will service the community well.

SB-833-SD-2

Submitted on: 3/13/2023 8:59:31 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Roman Masaki	Individual	Support	Written Testimony Only

Comments:

I support this bill

SB-833-SD-2

Submitted on: 3/13/2023 9:26:11 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
RENEE ARITA	Individual	Support	Written Testimony Only

Comments:

I'm in support of SB833 Wahiawa irrigation because it will service the community well.

SB-833-SD-2

Submitted on: 3/14/2023 9:38:07 AM

Testimony for WAL on 3/14/2023 9:30:00 AM

Submitted By	Organization	Testifier Position	Testify
Howard Green	Individual	Support	Written Testimony Only

Comments:

Sustainable Hawaii LLC supports this bill because it is the only economic way the Wahiawa Dam and Reservoir can fulfill their appropriate community role providing (1) 18,000 acre feet annually of agricultural water for farms on the North slope of Oahu, (2) a location where the Wahiawa Sewage Plant can safely deposit its effluent; (3) a recreational facility including not only fishing and canoeing, but also a camping location on Boy Scout Island; (4) critical flood control for the Waialua community.

Respectfully submitted/ Howard Green