DAVID Y. IGE GOVERNOR

EMPLOYEES' RETIREMENT SYSTEM HAWAI'I EMPLOYER-UNION HEALTH BENEFITS TRUST FUND

OFFICE OF THE PUBLIC DEFENDER



CRAIG K. HIRAI DIRECTOR

GLORIA CHANG DEPUTY DIRECTOR

STATE OF HAWAI'I DEPARTMENT OF BUDGET AND FINANCE P.O. BOX 150 HONOLULU, HAWAI'I 96810-0150

ADMINISTRATIVE AND RESEARCH OFFICE BUDGET, PROGRAM PLANNING AND MANAGEMENT DIVISION FINANCIAL ADMINISTRATION DIVISION OFFICE OF FEDERAL AWARDS MANAGEMENT (OFAM)

## WRITTEN ONLY TESTIMONY BY CRAIG K. HIRAI DIRECTOR, DEPARTMENT OF BUDGET AND FINANCE TO THE SENATE COMMITTEES ON AGRICULTURE AND ENVIRONMENT AND HAWAIIAN AFFAIRS ON HOUSE BILL NO. 1179, H.D. 1

March 21, 2022 1:30 p.m. Room 224 and Videoconference

## RELATING TO INVASIVE SPECIES

The Department of Budget and Finance (B&F) offers comments on this bill.

House Bill No. 1179, H.D. 1: establishes a pilot program within the Aina Mauna Legacy Program of the Department of Hawaiian Home Lands (DHHL) to remove and harvest gorse from Mauna Kea and develop it as a marketable product to expand economic opportunities for native Hawaiians; requires DHHL to submit reports to the Legislature; and appropriates an unspecified amount of general funds for FY 23 for the pilot program.

B&F notes that, with respect to the general fund appropriation in this bill, the federal Coronavirus Response and Relief Supplemental Appropriations Act requires that states receiving Elementary and Secondary School Emergency Relief (ESSER) II funds and Governor's Emergency Education Relief II funds must maintain state support for:

 Elementary and secondary education in FY 22 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and  Higher education in FY 22 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

Further, the federal American Rescue Plan (ARP) Act requires that states receiving ARP ESSER funds must maintain state support for:

- Elementary and secondary education in FY 22 and FY 23 at least at the proportional level of the state's support for elementary and secondary education relative to the state's overall spending, averaged over FYs 17, 18 and 19; and
- Higher education in FY 22 and FY 23 at least at the proportional level of the state's support for higher education relative to the state's overall spending, averaged over FYs 17, 18 and 19.

The U.S. Department of Education has issued rules governing how these maintenance of effort (MOE) requirements are to be administered. B&F will be working with the money committees of the Legislature to ensure that the State of Hawai'i complies with these ESSER MOE requirements.

Thank you for your consideration of our comments.

DAVID Y. IGE GOVERNOR STATE OF HAWAII

JOSH GREEN LT. GOVERNOR STATE OF HAWAII



WILLIAM J. AILA, JR CHAIRMAN HAWAIIAN HOMES COMMISSION

TYLER I. GOMES DEPUTY TO THE CHAIRMAN

#### STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

P. O. BOX 1879 HONOLULU, HAWAII 96805

## TESTIMONY OF WILLIAM J. AILA, JR, CHAIRMAN HAWAIIAN HOMES COMMISSION BEFORE THE SENATE COMMITTEES ON AGRICULTURE AND ENVIRONMENT & HAWAIIAN AFFAIRS HEARING ON MARCH 21, 2022 AT 1:30PM VIA VIDEOCONFERENCE

## HB 1179, HD1, RELATING TO INVASIVE SPECIES

March 21, 2022

Aloha Chair Gabbard, Chair Shimabukuro, and members of the Committee:

Thank you for the opportunity to testify on House Bill 1179, HD1. This bill establishes a pilot program within the Aina Mauna legacy program of the Department of Hawaiian Home Lands (DHHL) to remove and harvest gorse from Mauna Kea and develop it as a marketable product to expand economic opportunities for native Hawaiians. The Department supports the intent of this measure as long as it doesn't affect the priorities identified in the Governor's Supplemental Budget request.

Gorse is a highly invasive thorny shrub that creates impenetrable thickets which can be over 12 feet tall. DHHL Aina Mauna lands contain Hawaii's largest infestation of gorse, covering over 10,000 acres which prohibits homesteading and other land uses. The ecology and characteristics of this invasive species, which include abundant and early seed production, is easily spread and an over 30-year seedbank life, make containment, removal and long-term control of gorse very difficult and costly. The importance of eliminating this plant cannot be overstated. DHHL spends a great amount of time, effort and resources to control gorse annually and continues to look for the most feasible, efficient and effective long term solution to the gorse infestation on the Aina Mauna lands of Humuula and Piihonua. Any assistance in this effort is greatly appreciated.

The Hawaii Gorse Task Force Report prepared for the 31<sup>st</sup> Legislature 2021 Regular Session by DHHL in response to Senate Resolution 69, Senate Draft 1 identifies Short Term and Long Term Gorse Solutions, Proposed Legislation, and Additional Recommendations that can be viewed here: <u>https://dhhl.hawaii.gov/wp-</u> content/uploads/2021/01/Hawaii-Gorse-Task-Force-Report-to-the-2021-Leg.pdf.

Thank you for your consideration of our testimony.

DAVID Y. IGE GOVERNOR STATE OF HAWAII

JOSH GREEN LT. GOVERNOR STATE OF HAWAII



WILLIAM J. AILA, JR CHAIRMAN HAWAIIAN HOMES COMMISSION

TYLER I. GOMES DEPUTY TO THE CHAIRMAN

## STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

P. O. BOX 1879 Honolulu, Hawaii 96805

January 20, 2021

The Honorable Ronald D. Kouchi, President and Members of the Senate 31<sup>st</sup> State Legislature State Capitol, Room 409 Honolulu, HI 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives 31<sup>st</sup> State Legislature State Capitol, Room 431 Honolulu, HI 96813

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

For your information and consideration, I am transmitting a copy of the Hawai'i Gorse Task Force Report to the 2021 Legislature as required by SR69, SD1 (2020). In accordance with Section 93-16, Hawaii Revised Statutes, I am also informing you that the report may be viewed electronically at https://dhhl.hawaii.gov/reports/.

Sincerely,

William J. Ailā, Ír., Chairman Hawaiian Homes Commission

Report to the 31<sup>st</sup> Legislature 2021 Regular Session

# HAWAI'I GORSE TASK FORCE



Prepared by the

State of Hawai'i Department of Hawaiian Home Lands

In response to Senate Resolution 69, Senate Draft 1

January 2021

# GORSE TASK FORCE REPORT TO THE LEGISLATURE

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## I. PURPOSE

The purpose of Senate Resolution 69, Senate Draft 1 of Hawai'i's 2020 Legislative Session (SR 69, SD1) was to request the Department of Hawaiian Home Lands to convene a task force to create a comprehensive mitigation plan with short and long term solutions to address the spread and eradication of gorse on Hawai'i island. Gorse is a very aggressive invasive species whose specific ecology and traits make it very difficult and costly to control. Coordination and sharing of knowledge and experience between agencies, landowners and communities, as well as long term support and funding are needed to control and effectively eradicate gorse from Hawai'i.

## II. RESOLUTION REQUIREMENTS

SR 69, SD1 requests that the Department of Hawaiian Home Lands (DHHL) convene a Gorse Task Force (task force) to develop a comprehensive mitigation plan with short and long term solutions to address the spread and eradication of gorse on Hawai'i Island composed of the following members:

- 1. The Department of Land and Natural Resources (DLNR)
- 2. The Department of Agriculture (HDOA)
- 3. Hawai'i Invasive Species Council (HISC)
- 4. Other Interested Parties

The Task Force is also requested to:

- 1. Leverage all County, State and Federal agencies to address the problem
- 2. Explore potential commercial opportunities such as the use in biofuel, feedstock, and oils that would help address the issue.

## **III. TASK FORCE FORMATION**

To address the growing issue of the invasive shrub Gorse in Hawai'i, the Hawai'i Gorse Task Force has been formed and is made up of representatives from the agencies identified in section II as well as representatives from The County of Hawai'i (COH), University of Hawai'i at Hilo (UH HILO), UH College of Tropical Agriculture and Human Resources (CTAHR) and the United States Fish and Wildlife Service (USFWS) and with recommended representatives by the United States Forest Service (USFS). DHHL was requested to convene the Task Force as the DHHL Aina Mauna Lands contain the largest infestation of gorse in Hawai'i. DHHL reached out to each agency administrator through a letter of invitation requesting an appropriate representative knowledgeable in gorse from their agency to serve on the task force. After invitations were accepted and delegated, the Hawai'i Gorse Task Force consisted of the following:

- 1. Joseph Kualii Camara, Property Development Agent, DHHL
- 2. Andrew Choy, Planning Administrator, DHHL
- 3. Lehua Kinilau-Cano, Legislative Analyst, DHHL
- 4. Robert Hauff, Forest Health Coordinator, DLNR, Division of Forestry and Wildlife (DOFAW),
- 5. Tom Dement, Natural Area Reserve Specialist DLNR, DOFAW
- 6. Springer Kaye, Manager, HISC, Big Island Invasive Species Council (BIISC)
- 7. Darcy Oishi, State Entomologist, HDOA
- 8. Kamran Fujimoto, Noxious weed species Specialist, HDOA
- 9. Yiqing Li, Professor of Forestry, UH Hilo
- 10. JB Friday, Extension Forester, CTAHR
- 11. Glenn Sako, Economic Development Specialist, COH, Department of Research and Development
- 12. Ryan Pea, Wildlife Biologist, USFWS
- 13. Eldridge Naboa, Wildlife Biologist, USFWS
- 14. Cheyenne Hiapo Perry, Coordinator, Mauna Kea Watershed Alliance (MKWA)

Task Force virtual meetings were held to share the expertise on management of gorse, develop potential short and long-term solutions for gorse, and discuss the long-term goal and strategy for gorse control and eradication in Hawai'i. Task Force members were requested to attend meetings, complete surveys as needed, share potential partners, and evaluate and rank policy recommendations.

The following report outlines the Task Force's finding and recommendations, including proposed legislation, and will be shared with The Hawaiian Homes Commission, Chairperson of the Board of Land and Natural Resources, Chairperson of the Board of Agriculture, Hawai'i Invasive Species Council Program Supervisor, Hawai'i State Legislature, and the Mayors of each county. This report includes:

- 1. A summary of the Gorse situation in Hawai'i, past and current control methods
- 2. Summary of Meetings and discussions of the Hawai'i Gorse Task Force
- 3. A list of high-ranked potential short and long-term solutions for gorse control in Hawai'i
- 4. A summary of proposed legislation for gorse control in Hawai'i
- 5. A list of additional recommendations for consideration

## IV. GORSE SITUATION IN HAWAI'I

Gorse (*Ulex europaeus*) is a woody, leguminous shrub that is covered in spines that commonly grows to over 10 feet tall and can live up to 30 years. It is fast growing, and individual bushes grow together to form dense impenetrable thickets. Live plant material has a high flammable oil content and dead plant material hangs within plants, making gorse an extreme fire hazard to forests, agricultural land and even certain urban areas.

Gorse is a major problem in areas where it is considered invasive and causes significant production losses in agriculture and forestry worldwide. It invades rangeland, displacing forage species and physically excludes grazing animals from infested pastures. Gorse seedlings hinder plantation forestry by outgrowing and shading out tree seedlings. In native habitats it can shade out regenerating seedlings and change ecosystem processes. Gorse has outstanding ability to reinvade sites from which it has been cleared. This is directly related to a large and persistent seed bank. Its ability to colonize new sites is related to the large amount of seed produced and dispersed annually.

Gorse is native to Italy, Corsica, Spain, Portugal, France, Switzerland, Germany, Great Britain, Ireland, and The Netherlands. Gorse has naturalized in many temperate areas of the world and has become a serious alien invasive weed in New Zealand, Australia, USA, Canada, Chile, and several Indian Ocean Islands. It is New Zealand's most damaging weed, and it is defined as a weed of national significance in Australia. On the Continental US, gorse is regarded as a serious weed in Oregon, Washington State, northern California and British Columbia

Gorse was probably introduced to Hawai'i around 1900 and was considered an invasive weed by 1925. The shift from sheep- to cattle-grazing in high elevation grasslands on Hawai'i Island likely made the problem worse as cattle do not significantly graze gorse.

Gorse is a very difficult weed to control and manage due to a number of factors. Gorse matures early and can produce seeds before it is 2 years old. Gorse produces abundant and long-lived seeds creating a replenishing seed bank in which seeds can survive for over 30 years, necessitating long-term, consistent management and maintenance to control and ultimately eradicate gorse. Gorse efforts and resources for gorse removal are ineffective and wasted if long-term maintenance is not planned and implemented. Gorse seed can be transported to new areas by vehicles and in the fur and hooves of livestock and feral animals. Gorse thrives in full sun, poor soils and drought conditions, these conditions are present in many of the high elevation pasture and former pasture areas on Hawai'i Island and Maui.

Gorse occupies at least 10,000 acres of former pasture at an elevation of 5,000 to 8,000 ft in Humuula and Piihonua on Mauna Kea on the Island of Hawai'i. The infestation is not effectively contained and could potentially spread around the island and become established between 3,300 - 8,000 ft elevations. Areas within this elevation range with suitable soils and conditions for gorse could include up to 500,000 acres on Hawai'i Island alone.

There is also at least 1,000 acres of gorse known along the slopes of Haleakala on Maui. The potential for spread on this island is also immense. Gorse is known historically from Molokai, but there are no plants present at this time. A risk assessment for gorse in Hawai'i can be found at:

http://www.hear.org/pier/wra/pacific/ulex\_europaeus\_htmlwra.htm

## V. GORSE CONTROL EFFORTS

Since its introduction in around 1900, many efforts have been taken to try and control gorse in Hawai'i. In Humuula, gorse was initially present only at Puu Oo. Its movement and establishment may have been aided by moving cattle and sheep herds, contaminated machinery and vehicles and attempts to control gorse with fire.

Starting in the 1920's there were efforts to use biocontrol agents for the control of gorse. From 1985-2000, 7 biological control agents were introduced on Hawai'i Island, of which 5 have become established. Initial effectiveness of certain agents were promising, although large fires and other factors including possible arrival of predators of agents reduced numbers and their impact. Studies from New Zealand have identified other potential agent(s) for introduction that could affect the health of gorse and reduce annual gorse seed production and deplete the seedbanks in Hawai'i. Much of the research and groundwork for a potential agent has already been completed.

In 2001, large scale ranch leases ended on DHHL lands in Humuula and Piihonua and DHHL took over management of its Mauna Kea lands. By this time, gorse was well established and spreading. Efforts by ranchers to eliminate gorse using fire and herbicide prior to the expiration of ranch leases were not successful.

Since 2002, DHHL has worked to create buffers around the core population of gorse to contain it, and developed the Aina Mauna Legacy Program which outlined solutions for gorse control including large scale commercial forestry to shade gorse, and has spent significant resources to contain and control gorse on the Aina Mauna. The scale of the gorse infestation and finite resources of DHHL has resulted in a situation where gorse is present and spreading outside of the core containment area.

Efforts on Maui to shade and control gorse with slash and loblolly pines have proven effective on a small scale. Ranchers on Maui are currently managing gorse with an integrated approach and able to deal with the current level of infestation and maintain agricultural productivity. Smaller satellite populations on DHHL lands in Kahikinui are mapped and treated annually by Watershed Partners.

## VI. GORSE TASK FORCE MEETINGS AND OUTCOMES

#### Task Force Meeting #1 Summary:

In the first Gorse Task Force Meeting, participants were asked to share their experiences with gorse and invasive species management. A brief history of gorse in Hawai'i including its known extent, ecology, currently used best management practices, and challenges were shared to provide context of where gorse management in Hawai'i is currently. Prior to the meeting, members were asked to have solutions and recommendations prepared for discussion. Discussions identified deficiencies and areas for improvement in Hawai'i's gorse control efforts and identified standard and novel approaches to expand on and or further investigate for implementation in Hawai'i. Common short and long-term goals for the Task Force were discussed and included providing feasible effective solutions to gorse control moving forward, increase in public and stakeholder awareness, securing long term support and funding for control efforts, and working cooperatively on a comprehensive management plan. Solutions provided by Task Force Members were compiled for review and ranking.

#### Task Force Meeting #2 Summary:

The Second Gorse Task Force Meeting focused on reviewing and prioritizing the proposed solutions identified by task force members and stakeholders. Between meetings 1 and 2, task force members were asked to consider proposed solutions and to provide shared information resources to assist in prioritizing which solutions were the most feasible to pursue for the successful control of gorse in Hawai'i. Areas like New Zealand, Australia and Oregon have been dealing with large scale gorse infestations for decades and have organized agencies and stakeholders and created cooperative entities similar to the Hawai'i Gorse Task Force to coordinate efforts to control gorse. Valuable literature and information from other areas dealing with gorse were made available for review and included cooperative management plans, gorse control handbooks on best management practices and studies on potential uses of gorse. Resources available on the feasibility of potential gorse uses in Hawai'i and elsewhere are limited.

In meeting 2, each proposed solution was discussed and considered, and each Task Force member provided recommendations for the most feasible solutions to pursue. The top three short term and the top three long term solutions were identified for this report, as well as proposed legislation.

#### VII. TASK FORCE IDENTIFIED SOLUTIONS

The Hawai'i Gorse Task Force has prioritized and recommended 3 short-term solutions, to be implemented within the next 5 years, and 3 long term solutions for the control of gorse in Hawai'i. The recommendations are made in consideration of the most effective and efficient use of limited resources for the control of gorse in Hawai'i.

#### **Short Term Gorse Solutions:**

- 1. Establish Integrated Best Management Procedures for Gorse Control. Gorse is a very difficult invasive shrub to control. An effective gorse control program requires a long-term commitment strategy and capacity and would include gorse removal, follow up treatments to control seedlings and resprouts for 5-25 years, effective seedbank depletion and establishing a land use that is resistant to gorse re-establishment. Best management procedures have been developed as a result of other cooperative efforts to control gorse in areas like Oregon and Australia. Integrated best management procedures can build off of knowledge from other areas as well as techniques developed in and for Hawai'i.
- 2. Identify, Map, Contain and Control Satellite Populations. Once a gorse seedbank is established in a new area, it necessitates years of follow up monitoring and treatment to effectively eradicate. Identifying and killing gorse plants and patches before they are 2 years old is the most effective means of controlling gorse spread and most efficient use of resources. Reaching out to Landowners and stakeholders within gorse's potential range to educate and survey for gorse will be vital to stop the spread of gorse into new areas. New technology in UAV(drone), GIS and GPS technology should be used to map, monitor and document gorse control efforts. Funding and resources need to be secured, prioritized and made available to agencies and stakeholders for the immediate response and control of newly identified populations of gorse.
- **3.** Implement Gorse grazing test plot using goats. DHHL has a draft plan for a 30-acre test plot in Humuula for establishing gorse grazing protocols using goats. Goats have been proven effective

for control of gorse under specific conditions in New Zealand. A gorse grazing test plot would test different combinations of conditions to identify the prescribed grazing practices that are most effective and feasible for long term gorse control. Factors to be tested would be initial gorse clearing method, livestock density, grazing interval, forage and ground cover species, integration of sheep and other livestock and years of grazing needed for effective control. There are many concerns that need to be addressed before large scale goat grazing can be implemented, but if effective and feasible, goat grazing is an organic, scalable long-term maintenance tool that could reduce dependence on herbicides and mechanical control methods and provide income and or a food resource during the long-term gorse control process.

#### Long Term Gorse Solutions:

- 1. Identify and Involve Long Term Stakeholders. Gorse, like many other invasive species, does not recognize land ownership boundaries. The potential range of gorse needs to be identified. Ranchers, landowners and agencies within this potential range need to be aware of the risk of gorse and encouraged to be proactively involved and educated in gorse issues. This will help to build understanding of gorse issues, create a network for early detection and control, and create a larger voice to advocate for actions and resources for the long-term control of gorse in Hawaii.
- 2. Secure Long-Term Funding for Gorse Control. Gorse control is a long-term commitment. Clearing areas of gorse without follow up maintenance is a waste of limited funds. A common recommendation of gorse management plans is not to start a gorse control program unless long term planning and resources are in place to control gorse until the risk of reestablishment is gone. If we are serious about the threat of gorse in Hawaii and the loss of productivity of our high elevation lands, we need to commit to long term funding of control efforts.
- **3.** Reintroduction of Livestock and Integrated Gorse Management. DHHL lands in Humuula and Piihonua contain limited active livestock operations. Although livestock can contribute to gorse spread and proliferation if not managed in a way that considers and mitigates for gorse, livestock and associated pasture and ground cover management can be used as a tool for the long term maintenance and control of gorse toward the goal of seed bank depletion. Also, having an active presence on the land increases awareness of gorse locations, maintains access ways through pastures and livestock production can provide income for invasive species management. There are also numerous funding opportunities available for agricultural producers for responsible resource management.

### VIII. PROPOSED LEGISLATION

1. Request Legislative Funding and Support for a Hawai'i Gorse Management Plan There has not been a comprehensive gorse management plan for Hawai'i created thus far. There have been many efforts to control gorse in Hawai'i with varying success. A gorse management plan for Hawai'i would benefit all stakeholders by providing a template and resources for effective gorse control that builds on past experiences. A gorse management plan would be a means of implementing many of the proposed solutions in this report and create a document to provide information to stakeholders, partners and potential funding sources. Legislative funding and support of a comprehensive gorse management would be an appropriate use of public funds as it would support all stakeholders in Hawai'i affected by gorse.

## **IX. ADDITIONAL RECOMMENDATIONS**

Additional recommendations identified by the Hawai'i Gorse Task Force, but not prioritized as the top 3 short or long-term solutions to pursue include:

### Short Term Additional Recommendations:

- 1. Development of a Hawai'i Island and or Statewide Hawai'i Gorse Management Plan
- 2. Establishment of Protocols for the Use of Prescribed Fire for Gorse Control
- 3. Continued Feral Cattle Removal

## Long Term Additional Recommendations

- 1. Hire a Coordinator Level Gorse Management Position Devoted to Gorse Control
- 2. Reforest Areas to Shade Out Gorse
- 3. Introduction of Gorse Pod Moth and Other Possible Gorse Biocontrol Agents





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

> Testimony of Hawaii State Aha Moku

Before the Senate Committees on Agriculture and Environment Hawaiian Affairs

Monday, March 21, 2022 1:30 P.M. State Capitol, Conference Room 224 & Videoconference

# In **SUPPORT** of

#### House Bill 1179 HD 1 Relating to Invasive Species

House Bill 1179 HD1 establishes a pilot program within the Aina Mauna legacy program of the department of Hawaiian home lands (DHHL) to remove and harvest gorse from Mauna Kea and develop it as a marketable product to expand economic opportunities for native Hawaiians. It requires reports to the legislature and appropriates funds with a sunset date of June 20, 2025.

Prior to the Aina Mauna legacy program of the DHHL when most of the lands now in Hawaiian home lands jurisdiction was part of the Parker Ranch, the gorse was introduced to Hawaii as a living cattleguard from Scotland. The lands were conducive to this invasive plant and flourished. With no natural enemy, the gorse has proven almost impossible to eradicate.

Aha Moku participants, many who are Hawaiian Homes beneficiaries have found, much to their dismay, invasive species are multiplying on Hawaii, Maui, Oahu, Kauai, and Moloka'i. This is particularly menacing on Hawaii Island.

House Bill 1179 HD1 provides the means for DHHL to begin the extermination of the invasive species. The bonus to this is that it can provide economic opportunities for native Hawaiians.

We <u>SUPPORT</u> the passage of House Bill 1179 HD1 and ask that this measure be adopted. We are grateful for the opportunity to testify on this measure.

Leimana DaMate, Luna Alaka'i/Executive Director Hawaii State Aha Moku 808-640-1214 Leimana.k.damate@hawaii.gov Rocky Kaluhiwa, Kahu Nui O Kakuhihewa Hawaii State Aha Moku 808-286-7955 rockykaluhiwa1122@gmail.com



HAWAI'I FOREST INDUSTRY ASSOCIATION (HFIA)

P. O. Box 66 ♦ 'O'ōkala, HI 96774 Phone: 808-933-9411 Email: hfia@hawaiiforest.org Website: www.hawaiiforest.org

#### Date: 3/18/22

**TO:** AEN Chair Mike Gabbard, AEN Vice Chair Clarence K. Nishihara, HWN Chair Maile L. Shimabukuro, HWN Vice Chair Jarrett Keohokalole, AEN & HWN Senators Laura Acasio, Kurt Fevella, AEN Senator Karl Rhoads and HWN Senator Les Ihara Jr.

FROM: Hawai'i Forest Industry Association (HFIA)

SUBJECT: Testimony in Support of HB1179 HD1 Relating to Invasive Species

Dear Senators,

On behalf of the Directors of the Hawai'i Forest Industry Association (HFIA), this testimony is in support of HB1179 HD1.

HFIA recognizes the environmental and economic threat that is the invasive species Ulex europaeus, commonly known as Gorse. While the plant may have been brought here with good intentions, its aggressive behavior and resilient seed bank have exemplified the havoc it can wreak on our native forests as well as our grasslands/pasturelands. Funding a pilot program within the Aina Mauna legacy program of the department of Hawaiian home lands to remove and harvest gorse from Mauna Kea and develop it as a marketable product is exactly the type of reactive action we need at this time. Our window to be proactive in regards to Gorse on Mauna Kea has closed, however if we can establish methods to harvest Gorse from Mauna Kea, and uses for it, we can hypothetically apply such methods to managing Gorse on other islands as well.

Utilizing Gorse to create marketable products and develop a unique economic niche has been done in other parts of the world to which the species is not native, so why not here? If given the opportunity Gorse could go from being a problematic invasive species, eating up space on our mauna and outcompeting native species, to being a resource, bringing new economic opportunity to the Hawaiian people and the larger economy, all while doing right by our native forests.

We hope that you will support this measure.

Mahalo,

Don Bryan

Don Bryan, President Hawai'i Forest Industry Association

Established in 1989, HFIA's is a nonprofit organization founded by people committed to sustainable forest management. HFIA's mission is to promote healthy and productive forests and a sustainable forest industry through management, education, planning, information exchange, and advocacy. HFIA has over 100 members including woodworkers, landowners, sawyers, foundations, foresters, growers, educators, environmentalists, architects, millers, ranchers, and others interested in HFIA's mission and goals.

HFIA Board of Directors

Officers: President Don Bryan, Vice-President Guy Cellier, Secretary Peter D. Simmons, Treasurer Wade Lee Directors: Thomas Calhoun, Jeremy Campbell, Aaron Hammer, Nickolas Koch, Tai Lake, Gilles Lebbe, Michael Sowards, Irene Sprecher, Michael Tam, Jorma Winkler, Ron Wolfe, Aileen Yeh

HB-1179-HD-1 Submitted on: 3/16/2022 1:49:32 PM Testimony for HWN on 3/21/2022 1:30:00 PM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Camile Cleveland	Individual	Support	Written Testimony Only

Comments:

I strongly support this bill. Mahalo for the opportunity to testify

#### <u>HB-1179-HD-1</u> Submitted on: 3/16/2022 2:34:35 PM Testimony for HWN on 3/21/2022 1:30:00 PM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Robert Shook	Individual	Oppose	Written Testimony Only

#### Comments:

My name is Pati, I s'pose your method of gorse removal, 1) you referring to the same method that was previously practiced. Turning gorse into feed the problem is the seed. All animals eat the young shots and seed deficate and the problem continues. You are filling a failed method. 2) the gorse must be denied certain elements to survive sunlight water. So seeds go dormant than you harvest ensuring 90% less re growth, what is harvested must be burnt destroyed. There is no other way feed will spread the problem. 3) The science of Reed Shook, Graduate of UH Hilo, if you cover this species where their is no light, the plant will go dormant also the seeds will not germinate. See the cure is in front of you it's the future talking. 4) Using inmate work power does more than assist and employ but give Rehabilitation and actual THING, for the first time investing in your communities, cheaper job get done work for inmates upon release, Superviser position for Public Win Win. 5) Cost much less than is proposed, paying every Inmate minimum wage employing 30 or more with the proper material they can fence areas to house invasive animals, grow trees, remove invasive trees, faster cheaper more efficacy than what is on the table. This efficiency also extends to shoreline, and removal of dead animals roadside and trapping and removing evasive animals. If you choose to know more even to getting money to fund this you can call Robert Shook 808 785-4713 or robertbshook@gmail com

HB-1179-HD-1 Submitted on: 3/16/2022 3:29:39 PM Testimony for HWN on 3/21/2022 1:30:00 PM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Dana Keawe	Individual	Support	Written Testimony Only

Comments:

Support HB1179 HD1

#### HB-1179-HD-1

### Submitted on: 3/17/2022 8:08:48 AM Testimony for HWN on 3/21/2022 1:30:00 PM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Jennifer Azuma Chrupalyk	Individual	Oppose	Written Testimony Only

#### Comments:

This bill needs to have a public interaction with OHA to gather the Voice of Kanaka Maoli first. The biggest problem with the State of Hawai'i, the American people vs Kanaka Maoli, is your school of thought. You can check this information with any psychology instructor at UH. The Hawaiian and all Pacific cultures are collective societies and Americans have an individualistic heuristics. Pacific cultures think about cohesiveness with one another, Americans think that everything belongs to capitalism. While the State has good intentions with this bill for economic empowerment, Americans are the only people who wake up and go to sleep everyday worrying about how much money they can make from everything. At least half of the Hawaiian people disagrees with this mindset - altogether. Psychologically speaking, the dominant culture - American, is trying to use any means to dominate over Pacific cultures by eradicating the traditional lifestyles that we are accustomed to, and basically telling us that we will have to live the way you have put into legislature. Perhaps all legislature should be taking a Hawai'i 107 course at the college to learn about cultural context, and a Psychology 101 course to learn how to be ethical in thought. You cannot empower Hawaiian people with American thinking. We do not think the same. We do not choose the same. Lastly, when it comes to natural resources, if you really want to empower Kanaka Maoli, you would put more effort into protecting our natural resources, than micromanaging what you think would sell for capitalist profits. I'm sure that some Hawaiian-wannabe (you know, people who are Hawaiian at-heart and think that they are more Hawaiian than Kanaka Maoli) will be glad to see this bill pass, so that they can *individualistically profit from the sales of Hawaiian goods*. Money doesn't make the world go round; honesty, morals, and cultural respect make the world go round.