HB508 PROPOSED SD1

RELATING TO AGRICULTURE.

Establishes within the livestock revitalization program a grant program for qualifies feed developers. Appropriates funds for the feed developer grant program, reimbursements to feed developers for feed costs, assistance to feed developers in the planning and construction of feed mills, and a survey of local feed ingredient sources. Authorizes the growing of industrial hemp for certain purposes under specified conditions. Appropriates funds for Department of Agriculture staff to assist in registration of industrial hemp growers and seed testing (proposed SD1) SHAN S. TSUTSUI Lt. Governor



SCOTT E. ENRIGHT Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER Deputy to the Chairperson

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

TESTIMONY OF SCOTT E. ENRIGHT CHAIRPERSON, BOARD OF AGRICULTURE

BEFORE THE SENATE COMMITTEE ON AGRICULTURE

March 24, 2015 2:45 P.M. CONFERENCE ROOM 414

HOUSE BILL NO. 508 HD 1 PROPOSED SD 1 RELATING TO AGRICULTURE

Chairperson Ruderman and Members of the Committee:

Thank you for the opportunity to testify on House Bill No. 508, HD 1 Proposed SD 1. The bill has 2 parts. Part I proposes to establish a grant program for qualified feed developers within the Livestock Revitalization Program and Part II authorizes the growing of industrial hemp for certain purposes under specified conditions. The department supports this bill provided it does not adversely impact the priorities in the Administration's budget and has some proposed amendments for Part II.

In regards to Part I of the bill, the Department has initiated a feed development process to identify, assess, and validate available local feed ingredients. The goal of the department is to reduce the cost of production for our local livestock and aquaculture industries through lowering the cost of feed. A portion of the appropriation will allow the department to continue with the feed development identification, assessment and validation process.

In regards to Part II of the bill the Department would recommend the following amendments:



Page 11, lines 9-11 to read as follows: "The approved seed cultivar to be grown and whether the seed cultivar will be grown for its grain or fiber, or as a dual purpose crop a seed development plan with a detailed description of the proposed research to be conducted". This amendment is meant to allow for greater flexibility in the research applications for growing hemp.

Page 13, lines 12 – 15 to read as follows: "The board may contract with private growers to conduct research <u>under agricultural and</u> pilot programs as allowed under section 7606 of the Farm Bill of 2014". This amendment is meant to better align with the definitions in the Farm Bill.

Finally, adding a definition and amending a definition in the definition section as follows:

Adding a definition for "variety" to read as follows: " 'Variety' means a group or individual plants that exhibit the same observable physical characteristics or have the same genetic composition."

Amend the definition of "seed development" on page 10, line 2 – 4 to read as follows: " 'Seed development plan' means a strategy devised by a registered seed breeder, or applicant seed breeder, detailing the breeder's planned <u>research</u> approach <u>and expected results</u> to growing and developing a-new seed cultivars for industrial hemp."

Thank you for the opportunity to testify on this measure.



March 20, 2015

Senator Russell E. Ruderman, Chair Senator Gil Riviere, Vice Chair Senate Committee on Agriculture

Testimony in Support of Part I of HB 508, HD1, Proposed SD1, Relating to Agriculture (Establishes Within the Livestock Revitalization Program, a Grant Program for Qualified Feed Developers.)

Tuesday, March 24, 2015, 2:45 p.m., in Conference Room 414

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. One of LURF's missions is to advocate for reasonable, rational and equitable land use planning, legislation and regulations that encourage wellplanned economic growth and development, while safeguarding Hawaii's significant natural and cultural resources and public health and safety.

LURF appreciates the opportunity to provide testimony **in support of Part I of HB 508, HD1, Proposed SD1**, and to offer comments.

HB 508, HD1, Proposed SD1. As an advocate for the various agricultural stakeholder groups who defend the goals of viable agricultural operations and the conservation and protection of agriculture, including important agricultural lands in Hawaii, LURF supports Part I of this measure which seeks to help revitalize the State's livestock industries by establishing, within the Livestock Revitalization Program, a program to provide grants to qualified feed developers.

LURF's Position. LURF members include private property owners, farmers and ranchers who own, maintain, and engage in agricultural enterprises, and who consider such measures critical to the conduct of their operations and to help sustain their businesses. These land owners and agricultural stakeholders believe HB 508, HD1, Proposed SD1, and the ensuing establishment of such a grant program will greatly assist with feed costs which have been a contributing factor to the decline of the State's livestock industry.

As this Committee may already be aware, Hawaii's livestock industry faces numerous challenges, one if not the greatest being the unsustainable availability and cost of feed for livestock production. Most local dairies and egg and poultry Senate Committee on Agriculture March 20, 2015 Page 2

farms have already gone out of business or are currently threatened with closure due to rising production (mainly feed) costs. This measure will assist in continuing to make locally produced milk, eggs, beef, pork, poultry and other products available to Hawaii residents, and will help revitalize the State's declining livestock industry.

Decreased or limited livestock production increases the State's reliance on the importation of food and threatens the State's food security. As potential issues relating to public health, and food safety and security continue to be a significant concern, LURF and its members appreciate this measure being taken to assist agricultural stakeholders.

For the reasons stated above, LURF is **in support of Part I of HB 508, HD1**, **Proposed SD1**, and respectfully urges your favorable consideration of the provisions in said part of this bill.

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



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

March 24, 2015

HEARING BEFORE THE SENATE COMMITTEE ON AGRICULTURE

TESTIMONY ON HB 508 HD 1 PROPOSED SD 1 RELATING TO AGRICULTURE

Room 414 2:45 PM

Aloha Chair Ruderman, Vice Chair Riviere and Members of the Committee:

I am Christopher Manfredi, President of the Hawaii Farm Bureau (HFB). Organized since 1948, the HFB is comprised of 1,932 farm family members statewide, and serves as Hawaii's voice of agriculture to protect, advocate and advance the social, economic and educational interest of our diverse agricultural community.

HFB is in strong support of HB 508 HD 1, which provides funds to allow qualified beef cattle, dairy, hog, poultry, goat, sheep, fish, and crustacean farms to apply for funds for their farms' feed expenses. It also establishes a program to provide grants for livestock feed developers.

Hawaii's livestock industry faces numerous challenges. One of their biggest challenges is the rising cost of feed for livestock production. These costs have been a contributing factor to the decline of the state's livestock industry.

In 2007, there were 5 dairies and 6 egg farms in Hawaii. Since then, 3 of those dairies and 4 off those egg farms have gone out of business. The remaining egg farms and another dairy are currently threatened with closure, due to rising production costs, primarily the cost of feed.

HB 508 HD 1 will help keep fresh, locally produced milk, eggs, beef, pork, poultry, sheep, lamb, fish and crustaceans available to the residents of Hawaii and will help to revitalize our dwindling livestock industry. A decrease or absence of livestock production increases the State's reliance on the importation of food and threatens the State's food security.

Hawaii Farm Bureau supports the cultivation and commercialization of industrial hemp.

Thank you for the opportunity to comment on this measure.



March 22, 2015

The Honorable Russell Ruderman Chairman Senate Agriculture Committee senruderman@capitol.hawaii.gov

Letter of support for HB 508 HD1 Proposed

Aloha Chairman Ruderman, Vice Chair Riviere and esteemed Senate Agriculture Committee members,

HFUU is in strong support of HB 508 HD1 Proposed.

Kai Hinson	
Secretary	Farmers should not have to wait years for permission to grow hemp.
Ray Maki	
Treasurer	Under current US law, hemp is legal to grow for research purposes. It has some 25,000 plus known uses, and will create jobs. There is much research to do, and farmers need
Pamela Boyar Oahu	to start doing it, and the sooner the better if you please.
Kyle Studer East Hawaii	Our producers will have a multi-year hybridization process to go through to develop viable hemp seeds for our various micro-climates across the state. Waiting more years is not going to be helpful, as there are a number of US states and many countries around the world growing hemp for industrial purposes. The US competition for hemp
Greg Smith Ka'u	production is on, and Hawaii's farmers have not even approached the starting line.
Dash Kuhr Kohala	Hemp is a good animal feed. Poultry farmers will benefit from this crop. Hemp seeds are a large part of commercially available bird seed. Hemp is good for revitalizing the soils as well, so crop diversity and soil health will be positively impacted if this proposed legislation passes.
Steve Sakala Kona	It is with great pleasure that we look to a future in which farmers are able to utilize this valuable crop to augment their practices.
Phyllis Robinson Haleakala	Me ka ha'aha'a,
Alika Atay Aauna Kahalawai	Simon Russell HAWAII FARMERS UNION UNITED Legislative Committee Chairman

The Hawaii Farmers Union and its Chapters is a nonprofit corporation formed under Hawaii law. It advocates for the sovereign right of farmers to create and sustain vibrant and prosperous agricultural communities for the benefit of all Hawaii through cooperation, education and legislation.

Vincent Mina President

Simon Russell Vice-President

Ν

Testimony March 24, 2015 HB508 2:45PM

Respected Chairperson Ruderman and members of the Committee,

My name is Denise Key and I'm in **strong support of proposed HB508 SD1:** Relating to Agriculture.

I am the owner of Eneli Consulting, LLC. I have lived on Maui for 7 years. Since 2013 much of my consulting has been on the legalization of industrial hemp through legislation, education and business/product development in Hawaii. I strongly support this agricultural bill, which provides grants to qualified feed developers through the Department of Agriculture's Livestock Revitalization Program. I also support the addition of industrial hemp in this bill as an option for farmers to grow for animal feed.

Industrial hemp has been used as an animal feedstock around the world and has proven benefits. It's also known that hemp grows easily in every climate, uses less water than traditional crops with no need for pesticides. Every part of the plant can be used. I see this as an economic plus for farmers with a possible secondary market for additional income.

Research findings show that chickens on a hemp diet lay healthy, omega-3 eggs, according to a recent German study.¹ In both Australia and the Netherlands, studies found cows fed on hemp seed meal, provide up to four liters of milk more per day than cows that have been traditionally feed. These cows are especially healthier, live longer and therefore increased efficiency. Moreover, the cultivation of hemp fiber is cheap, simple and durable.²

Therefore, I **strongly support proposed HB508 SD1** that will give an opportunity for farmers to receive the much needed financial support in developing an island livestock feed; as well as farming/developing an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Thank you for the opportunity to testify.

Respectfully,

Denise Key

Owner Enelli Consulting, LLC

¹Chickens On Hemp Diet Lay Healthy, Omega-3 Eggs http://www.leafscience.com/2013/10/24/chickens-hemp-diet-lay-healthy-omega-3-eggs/ ²Hemp Food Australia http://www.hempfoods.com.au/hemp-seed-for-livestock-cattle/#.VQ3j047F-So ²More Dutch cows eat hemp http://www.dutchdailynews.com/cows-eat-hemp/

From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	ktk@biodiesel.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 7:31:56 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Kelly King	Pacific Biodiesel Technologies	Support	No

Comments: Pacific Biodiesel supports HB508, SD 1 proposed amendments. We believe hemp is destined to be an important crop for Hawaii and the truth is finally coming out about the differences in industrial hemp and marijuana. As the U.S. is the largest importer of hemp products, it's only a matter of time before our country legalizes hemp cultivation; Hawaii has an opportunity to be on the forefront of this new industry, but only if the State Legislature acts now. Mahalo nui loa for your support!

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	mauimagic5711@hotmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 1:18:29 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Ann Evans	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Ann Evans

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Anne Thurston	Individual	Support	No

Comments: I support HB508 SD1 strongly. It represents an opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports.

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Barry	Individual	Support	No

Comments: Aloha Respected Public Servants, I strongly support HB508 SD1 PROPOSED and I hope you will as well. Hawaii is in a perfect position to benefit on many economic levels as well as land restoration projects with this pono plant. Let's lead the way for the country and give the citizens of Hawaii employment, pride and economic agricultural security. I see it also benefitting tourism as many people will be so happy to come and visit hemp farms! Mahalo, Barbara Barry

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	Don.couch@mauicounty.us
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 6:20:03 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Councilmember Don Couch	Individual	Support	No

Comments: The Maui County Council passed resolution 14-122 in which we support the definition and research of industrial hemp. As an individual, I fully support the intent of HD 508 SD1. Mahalo

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Courtney Bruch	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Courtney Bruch

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	dwleake@aol.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 10:59:08 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
David Leake	Individual	Support	No

Comments: Aloha Senators, I strongly support HB508 SD1 PROPOSED and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, David Leake 46-395A Kahuhipa Street Kaneohe, HI 96744

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	mauisunrise7@yahoo.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 1:36:22 PM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Elise Travis	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 PROPOSED and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Elise Travis link to read the proposed Hemp Bill- HB508 SD1

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Eva Lee	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 PROPOSED and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Eva Lee Tea Farmer

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	arthurfrederick@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 10:52:12 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Frederick Kennedy	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 PROPOSED and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Frederick Kennedy

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Helga Fiederer	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Helga Fiederer

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
JAMES GETz	Individual	Comments Only	No

Comments: I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports.

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

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

Comments: I support the HB 501 SD 1 Proposed version of the bill. Having better awareness of the sources of our animal feed and encouraging Hawaii based farmers to grow feed for local production with subsidies are both good ideas. Additionally, Hemp seed is an excellent, high quality feed source for animals (and humans alike).

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	olindaorganicfarm@hawaiiantel.net
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 1:55:09 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

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

Comments: Please support HB508 SD1! We must give much needed financial support to our farmers while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers as well as reducing Hawaii's dependency on importing food. Mahalo!

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	jenniferbonadio1@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 9:06:54 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer Bonadio	Individual	Support	No

Comments: Support for the PROPOSED version. Thank you, Aloha

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
John Gelert	Individual	Support	No

Comments: I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports.

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Joseph Kohn MD	Individual	Support	No

Comments: I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. www.WeAreOne.cc

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
katherine smith	Individual	Support	No

Comments: Hawaii farmers, ranchers, developers, builders, biofuel manufacturers and entrepreneurs need access to all cash crops that will grow our economy. The full potential of Agricultural snd Industrial Hemp can only be realized if farmers and ranchers we allow farmers and ranchers to grow this versatile crop. PLEASE VOTE FOR HB508 SD1 PROPOSED Katherine Smith Lahaina

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

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

Comments: Aloha Senators, I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Keith Ranney Kula, Maui, HI

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	occupyhilomedia@yahoo.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 11:02:41 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Kerri Marks	Individual	Support	No

Comments: I support pursuing hemp as a feedstock. Hemp is a very easy to grow crop that requires no water and very little if any fertilizer. The seed has been used as animal feed in other countries for a long time, especially and birds and cattle. Please pass this measure on and give our farmers a viable crop and feedstock alternative. For more info http://www.feedipedia.org/node/50 Ruminants The oil cake has been used for fattening cattle (up to 3 kg per day) and adult sheep (0.5 kg per day) (Göhl, 1982). It is an excellent natural source of rumen-undegradable protein that is equivalent to heat-treated rapeseed meal. When substituted for rapeseed meal, hemp seed oil meal included at 20% of diet DM had no detrimental effects on feed intake or nutrient utilization by sheep (Mustafa et al., 1999). Poultry Hemp seeds have a high energy content, and due their low cost, are a traditional staple of mixes for pet birds. Seed-eating migratory birds are attracted to hemp fields at harvest time, and, in many countries, the seeds have been used as poultry feed (Khan et al., 2009). Broilers Up to 20% dried and crushed hemp seeds have been used successfully in broiler diets and resulted in higher breast, leg and thigh weight. This positive effect has been linked to the combination of a good protein and lipid quality associated to other beneficial properties, such as the lack of trypsin inhibitors and the antioxydant activity of cannabidiol (Khan et al., 2009). Feeding broilers with hemp seed powder (at 20%) resulted in better feed conversion ratio, higher live-weight gain and lower age at slaughter, and lower mortality rate (Khan et al., 2010) It is possible to partly replace soybean meal by hemp seed meal in broiler diets. Supplementation of hemp seed meal at 1.5-9.0% had no adverse effects on immunological factors. Levels of 1.5-3% might promote B cell differentiation and maturation as well as immunity. Levels of 4.5-7.0% enhanced nitrogen utilization (Ma Li et al., 2007). Laying hens With hens fed on 0 to 20% of cold-pressed hemp seed meal, no significant differences were found between feed treatments for egg production, feed consumption, feed efficiency, body weight change or egg guality. Increasing dietary inclusion of hemp seed meal produced eggs with lower concentrations of palmitic acid and higher concentrations of linoleic and alpha-linolenic acids (Silversides et al., 2005). Rabbits Feeding rabbits with hemp oil cake is possible but it has a moderate energy value for rabbits, due to its high fibre content that reduces diet digestibility. It does not have significant organoleptic effects on fresh rabbit meat (Lebas et al., 1988).

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Kristin Solbach	Individual	Support	No

Comments: I support this bill, specifically HB508 SD1 PROPOSED

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Lars Lind	Individual	Support	No

Comments: Please support HB508 SD1. We must support our farmers while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. We must develop other sources of income and produce to reduce the current dependency on imports.

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Mark Shaw	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Mark A. Shaw

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	mauimartha@hawaiiantel.net
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 1:20:15 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Martha Lind	Individual	Support	No

Comments: Aloha Senators, I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. We MUST grow crops that will help our hard working farmers earn income, as well as reduce the dependency on imports in Hawaii. Mahalo for your support!

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	alohapowers@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 1:53:47 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
megan powers	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Industrial hemp will also creat many business opportunities such as building materials - hemp Crete, hemp insulation, pressboard; textile materials: fabric, rope and all the businesses that will benefit from it: clothing and furniture manufacturers, boating, zip line and parachuting and sailing industry, as well as paper manufacturing. Also, industrial hemp can provide one of the highest quality vegetable protein and edible oil sources if its not laden with herbicides. We all know that industrial hemp could save HC&S. Please support this bill.

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Michael Reed Gach	Individual	Support	No

Comments: I am writing to support HB508 SD1 for farmers to receive the much needed financial support while developing an island livestock feed, as well as a Hawaiian industrial hemp variety. This will open many avenues of income for our farmers while reducing our dependency on imports. Mahalo for your consideration. I urge you to support HB508 SD1 Michael Reed Gach, Ph.D. Maui Resident & Property Owner

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
miri chamdi	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Miri Chamdi

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	mauinutritionaltherapy@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Sunday, March 22, 2015 1:21:25 PM

Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Nicole Brown	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Nicole Brown, NTP

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	nikhilananda@hawaiiantel.net
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 11:22:24 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

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

Comments: Aloha: I strongly support HB508 SD1 PROPOSED to establish an industrial hemp variety that grows in Hawaii. Plus also the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, This will open up many avenues of possible income for our farmers while reducing the current 90% dependency on imports.

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Olaf Behrendt	Individual	Support	No

Comments: Aloha Senators As a farmer myself, I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Olaf Behrendt

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Peter R. Kafka	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Peter R. Kafka

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	robyn.c.smith@maine.edu
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 12:34:19 PM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
robyn smith	Individual	Support	No

Comments: Aloha, I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours Robyn Smith

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Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Sylvia Cenzano	Individual	Support	No

Comments: I AM SUBMITTING TESTIMONY IN SUPPORT OF THE PROPOSED VERSION.

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	alohalways@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 10:29:15 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Tanja Miller	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully yours, Tanja Miller

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	cannacurecbd@gmail.com
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 12:40:27 PM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Tracy Bryce	Individual	Support	No

Comments: Aloha Senators I strongly support HB508 SD1 PROPOSED and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. Respectfully Tracy Bryce

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Submitted on: 3/22/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
william cote	Individual	Support	No

Comments: I strongly support HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports.

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From:	mailinglist@capitol.hawaii.gov
To:	AGL Testimony
Cc:	heywilson@earthlink.net
Subject:	Submitted testimony for HB508 on Mar 24, 2015 14:45PM
Date:	Monday, March 23, 2015 10:50:44 AM

Submitted on: 3/23/2015 Testimony for AGL on Mar 24, 2015 14:45PM in Conference Room 414

Submitted By	Organization	Testifier Position	Present at Hearing
Wilson Angel	Individual	Support	No

Comments: Aloha Senators -- I strongly support the proposed agriculture bill HB508 SD1 and the opportunity for farmers to receive the much needed financial support while developing an island livestock feed, as well as an industrial hemp variety that grows in Hawaii. This will open up many avenues of possible income for our farmers while reducing the current 70% dependency on imports. It just makes total sense. Mahalo. Respectfully yours, Wilson Angel

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