

HB154

Testimony

NEIL ABERCROMBIE
Governor



RUSSELL S. KOKUBUN
Chairperson, Board of Agriculture

SCOTT E. ENRIGHT
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 RUSSELL S. KOKUBUN
CHAIRPERSON, BOARD OF AGRICULTURE**

**BEFORE THE SENATE COMMITTEES ON AGRICULTURE AND ENERGY AND
ENVIRONMENT
THURSDAY, MARCH 14, 2013
2:45 P.M.
Conference Room 229**

**HOUSE BILL NO. 154 HD 2
RELATING TO INDUSTRIAL HEMP**

Chairpersons Nishihara and Gabbard and Members of the Committees,

Thank you for the opportunity to testify on House Bill No. 154 HD 2. This bill would authorize the Chair of the Board of Agriculture to establish an industrial hemp remediation pilot program. The Department supports the intent of the bill but has concerns.

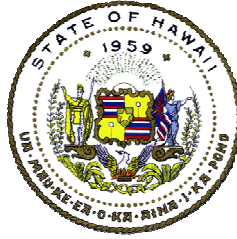
The Department of Agriculture supports the intent of this measure, provided that the Drug Enforcement Administration (DEA) issues the Chair of the Board of Agriculture a federally-controlled substance registration for the remediation pilot program. While the DEA has issued a similar registration to grow industrial hemp in the past, approval from the DEA may be much harder to obtain today.

The Department is also concerned about the blank appropriation amount that leaves uncertainty as to the final financial cost that the Department will have to bear.

We would like to note that previous testimony provided to the House Consumer Protection and Commerce Committee by a professor of the University of Hawaii at Manoa who was involved with the Hawaii Industrial Hemp Research Project from 1999 to 2003 estimated the cost of the project to be \$60,000 a year. As the Department does not have experience in the process required to attain a DEA federally-controlled substance registration nor the experience growing hemp we believe that the pilot program may benefit if it was spearheaded by the University of Hawaii rather than the Department of Agriculture.

Thank you for the opportunity to testify.

NEIL ABERCROMBIE
GOVERNOR



STATE OF HAWAII
DEPARTMENT OF PUBLIC SAFETY

919 Ala Moana Blvd. 4th Floor
Honolulu, Hawaii 96813

TED SAKAI
DIRECTOR

Martha Torney
Deputy Director
Administration

Max Otani
Deputy Director
Corrections

Keith Kamita
Deputy Director
Law Enforcement

No. _____

TESTIMONY ON HOUSE BILL (HB) 154, HOUSE DRAFT (HD) 2
A BILL FOR AN ACT RELATING TO
INDUSTRIAL HEMP

By
Ted Sakai, Director
Department of Public Safety

Senate Committee on Agriculture
Senator Clarence K. Nishihara, Chair
Senator Ronald D. Kouchi, Vice Chair

Senate Committee on Energy and Environment
Senator Mike Gabbard, Chair
Senator Russell E. Ruderman, Vice Chair

Thursday, March 14, 2013, 2:45 p.m.
State Capitol, Room 229

Chairs Nishihara and Gabbard, Vice Chairs Kouchi and Ruderman, and
Members of the Committees:

The Department of Public Safety (PSD) would like to **comment** on
HB 154, HD2 which would authorize the Chair of the Board of Agriculture to
establish an industrial hemp pilot program provided that the USDOJ, Drug
Enforcement Administration, issues the chair a Federal Controlled Substance
Registration for the pilot program.

PSD would like to bring to attention that anyone seeking to do research
with marijuana/cannabis hemp must apply for a controlled substance registration
with both the State's Narcotics Enforcement Division and the Federal Drug
Enforcement Administration as a "researcher." A person registered to conduct
research with a basic class of controlled substances listed in Schedule I shall be
authorized to manufacture or import such class if, and to the extent, that such

manufacture or importation is set forth in the research protocol submitted at the time of registration.

The term "manufacturer" means the production, preparation, propagation, compounding, conversion, or processing of a controlled substance, either directly or indirectly by extraction from substances of natural origin, or independently by means of chemical synthesis, or by a combination of extraction and chemical synthesis, and includes any packaging or repackaging of the substance or labeling or relabeling of its container, except that this term does not include the preparation or compounding of a controlled substance by an individual for the individual's own use or the preparation, compounding, packaging, or labeling of a controlled substance:

- (1) By a practitioner as an incident to the practitioner's administering or dispensing of a controlled substance in the course of the practitioner's professional practice, or
- (2) By a practitioner, or by the practitioner's authorized agent under the practitioner's supervision, for the purpose of, or as an incident to, research, teaching, or chemical analysis and not for sale.

In order to complete the process of registration as a researcher of controlled substances, the DEA and State considers certain criteria. These criteria include:

- (1) Maintenance of effective controls against diversion of controlled substances into other than legitimate medical, scientific, or industrial channels;
- (2) Compliance with applicable state and local law;
- (3) Any convictions of the applicant under any federal and state laws relating to any controlled substance;
- (4) Past experience in the manufacture or distribution of controlled substances, and the existence in the applicant's establishment of effective controls against diversion;
- (5) Furnishing by the applicant of false or fraudulent material in any application filed under this chapter;

- (6) Suspension or revocation of the applicant's federal registration to manufacture, distribute, prescribe or dispense controlled substances as authorized by federal law; and
- (7) Any other factor relevant to and consistent with the public health and safety.

Controlled substance registration under Federal and State law does not entitle a registrant to manufacture, dispense, prescribe, and distribute controlled substances in Schedule I or II other than those specified in the registration.

A controlled substance registration is necessary due to the fact that under Chapter 329-1 of the Hawaii Revised Statutes there is no distinction made between the plant genus Cannabis which both hemp and Marijuana are part of. State law defines "Marijuana" as all parts of the plant (genus) Cannabis whether growing or not; the seeds thereof, the resin extracted from any part of the plant; and every compound, manufacture, salt, derivative, mixture, or preparation of the plant, its seeds, or resin. It does not include the mature stalks of the plant, fiber produced from the stalks, oil, or cake made from the seeds of the plant, any other compound, manufacture, salt, derivative, mixture, or preparation of the mature stalks (except the resin extracted there from), fiber, oil, or cake, or the sterilized seed of the plant that is incapable of germination. The law focuses on the THC content of the plant genus Cannabis with a level over 0%.

Under present federal and state law, any cannabis plant with a tetrahydrocannabinol level over zero percent is considered marijuana a hallucinogenic Schedule I controlled substance and cannot be manufactured for sale to the public if there is any amount of THC contained in the product.

It should be noted that all previous research undertaken in Hawaii utilizing "hemp/marijuana" was conducted by private researchers utilizing no general funds or State employees.

Thank you for the opportunity to testify on this matter.

From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: legechair@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 1:17:17 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Simon Russell	Hawaii Farmer's Union United	Support	No

Comments: Aloha Honorable Senators, Thank you for considering HB 154, as Hawaii needs agricultural diversification. I would like to point out that hemp seeds (or nuts) have a 33% protein content which is of exceptionally high quality in terms of amino acid composition and occurring in nutritionally significant amounts and in a desirable ratio. The oil content is approximately the same at 33% and polyunsaturated fats and omega 6 and 3. Other significant nutritional factors are: iron, phosphorus, magnesium, manganese, zinc and other minerals. Therefore I humbly ask that you consider adding the following language to Page 2 line 13 (13) The legislature recognizes that Hawaii has a food deficit and hemp seeds have a high nutritional value. Accordingly, part of the pilot program will focus on hemp production for nutrition. Thank you for all of the good work you are doing, Respectfully Submitted, Simon Russell Legislative Chairman, HFUU

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**PACIFIC
BIODIESEL**

Pacific Biodiesel Technologies

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March 11, 2013

Senator Clarence K. Nishihara, Chair, Committee on Agriculture
Senator Ronald D. Kouchi, Vice Chair, Committee on Agriculture
Senator Mike Gabbard, Chair, Committee on Energy and Environment
Senator Russell E. Ruderman, Vice Chair, Committee on Energy and Environment

HEARING: Monday, Feb. 25, 2013, Conference Room 229

Re: In support of House Bill 154, HD2, relating to Industrial Hemp

Dear Chairs and Vice Chairs:

Pacific Biodiesel Technologies (PBT) wholeheartedly supports House Bill 154, HD2, which would establish a two-year industrial hemp remediation and biofuel crop pilot program.

As Hawaii's only commercial biofuel production company, PBT has for over a decade been exploring a wide range of potential new feedstocks beyond the state's current supply of waste vegetable oil. We are currently engaged in a federally funded biofuel crop demonstration project, working closely with the U.S. Army Corps of Engineers as our sponsoring agency, to determine viable biofuel crops for Hawaii and develop production models that we can share with local farmers. The PBT farming team has been using cover crops and such in the successful rehabilitation of previously mono-cropped agricultural lands for our current project. It was our desire, with support from our military sponsors, to include hemp in our crop trials; however, we encountered the roadblock of severe requirements due to its designation as a narcotic, which we believe is now widely known to be erroneous.

There is currently legislation proposed at the federal level to take industrial hemp off the list of "controlled substances", given the bi-partisan recognition that hemp is not a drug. With bold action, Hawaii can absolutely be at the forefront of the industrial hemp farming movement which has incredible economic promise. Pacific Biodiesel believes that when hemp is eventually legalized nationally, Hawaii will be the ideal place to develop this crop into some of its potential 25,000 products, including food, fuel, soil remediation, building materials, clothing, paper, rope, cosmetics, skin care products, etc.

If the legislature passes HB154, HD2, Pacific Biodiesel would be interested in partnering with the State Dept. of Agriculture to reduce costs for the phytoremediation trials. We are currently conducting trials on the North Shore of Oahu and soon will include Waimea on the island of Hawaii; the PBT team is happy to collaborate using our resources and farming experts. Our Hawaii Military Biofuel Crop project is slated to continue through the end of 2013 so it would be possible to get a crop cycle of industrial hemp cultivated within that time frame if the bill passes this session.

Please pass HB154, HD2, effective on the earliest possible date.

Sincerely,

Kelly King, Vice President
ktk@biodiesel.com

From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: maumagic5711@hotmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Sunday, March 10, 2013 4:26:36 PM

HB154

Submitted on: 3/10/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

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

Comments: I cannot get my file to upload. Am hoping this will suffice. I am in FULL SUPPORT of Industrial Hemp for the better of our aina, its people and our economy. We are NOT sustainable with all of the poisons that are being introduced into our precious soils. A`ole to those big chemical companies! Let us do what is RIGHT for our earth, and our children....before it is beyond repair. THIS CROP is the answer to so many uses and needs. PLEASE DO WHAT IS RIGHT.

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: barbc@ihug.co.nz
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 7:53:36 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Barb Cuttance	Individual	Support	No

Comments: I support this bill with the following amendment: Amendment: Please add the following language to Page 2 line 13 (13) The legislature recognizes that Hawaii has a food deficit and hemp seeds have a high nutritional value*. Accordingly, part of the pilot program will focus on hemp production for nutrition. Note- *Hemp seeds (or nuts) have a 33% protein content which is of exceptionally high quality in terms of amino acid composition and occurring in nutritionally significant amounts and in a desirable ratio. The oil content is approximately the same at 33% and polyunsaturated fats and omega 6 and 3. Other significant nutritional factors are: iron, phosphorus, magnesium, manganese, zinc and other minerals.

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: bmurphy420@mail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 9:56:44 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Brian Murphy	Individual	Comments Only	No

Comments: Its Hawaii Future!

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To: [AGL Testimony](#)
Cc: saws123@myway.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 3:13:00 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Carl York	Individual	Support	No

Comments: Industrial hemp is a great choice for HI

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To: [AGL Testimony](#)
Cc: lotuslover@hotmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 11:22:45 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

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

Comments: SUPPORT only with amendment to prohibit GM Hemp.

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To: [AGL Testimony](#)
Cc: Kumukahi77@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 10:46:33 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Dea Rackley	Individual	Support	No

Comments: It's time Hawaii become self-sufficient. This is the way!!!!

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: Jaymanmolokai@live.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 11:52:09 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Jay w Duquette	Individual	Support	No

Comments: I strongly support this bill as long it is amended to exclude GM manipulation of said phytoremediation crop. Industrial hemp has many uses of which cleaning contaminants from the soil is one. Others include raw materials used in textile manufacturing, lumber, food production, medicine, and various types of oil some of which may be used in biofuels as is stated in this bill. This is a great opportunity for Hawaii please don't let this one pass us by. Aloha and mahalo.

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: OccupyHiloMedia@yahoo.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Saturday, March 09, 2013 6:31:53 PM

HB154

Submitted on: 3/9/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

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

Comments: Strongly support hemp for biofuel

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: kristinherrick@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 3:45:25 PM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

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

Comments: As a young student interested in agriculture, I strongly support HB 154, which seeks to distinguish the State of Hawaii as a national leader in sustainable, efficient agriculture. Implementation of a two-year industrial hemp remediation and biofuel crop pilot program will not only help address Hawaii's existing soil quality issues, but will also help address the recent decline in State agricultural practices. In an Island community with limited space, crop selection is vitally important and industrial hemp is not only easy to grow but can also produce energy, food, fiber, and other materials - rendering it a sustainable, efficient crop with immense utility and minimal environmental impact. As a national leader in sustainable energy, Hawaii cannot miss this opportunity to be among the national leaders in using industrial hemp for biofuel. While opponents may confuse industrial hemp with marijuana, hemp has no psychoactive properties and the plants are harvested differently and have different appearances. Given this reality, the utility of industrial hemp as a crop far outweighs the misinformed, archaic beliefs about the plant's outputs. Hawaii should be among the first to recognize this distinction in order to capitalize on this unique opportunity and avoid being left in the past clinging to false beliefs. Thank you for the opportunity to testify in favor of this Bill.

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From: [Lloyd Casey](#)
To: [AGL Testimony](#)
Subject: HB154 HD2, Thursday, March 14, 2:45 p.m.
Date: Saturday, March 09, 2013 6:41:51 AM

I support this bill. In 1995 I sponsored a similar bill heard by the Agricultural Committee of the Senate of the General Assembly for the state of Colorado. The Agricultural Committee passed it. Unfortunately it was defeated in the House. Too many House members thought they might lose votes by an opponent accusing them of voting for a drug suspect bill. It is way past time such ignorance delayed the passage of the bill you will be voting on.

Lloyd Casey, Senator, State of Colorado, 1993, 4, 5 & 6.

From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: michaelbroady@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Monday, March 11, 2013 11:57:07 PM

HB154

Submitted on: 3/11/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Michael Broady Jr.	Individual	Support	Yes

Comments: Aloha, my name is Michael Broady Jr., I am a life long resident of O'ahu, a student at Leeward Community College, and a small organic farmer practicing biodiverse permaculture. I support the use of industrial hemp for phytoremediation, as our soils are in need of a powerful phytoremediator in the aftermath of pesticide monocultures. As President Franklin D. Roosevelt once said, "A nation that destroys its soils destroys itself". Let us explore hemp as a means of restoring the soil which has been destroyed by the short-sighted paradigm of industrial agriculture.

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To: [AGL Testimony](#)
Cc: foodsovereignty@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 11:19:00 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Mitsuko Hayakawa	Individual	Support	No

Comments: Thank you for considering this bill. I support the use of hemp has a wide range of environment-friendly uses. It is an extremely strong fiber that could replace plastic and trees for paper. It would help our local economy without the use of pesticides. Please, however, I would appreciate inclusion on this bill to NOT allow genetically modified hemp. Thank you.

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Cc: neil.vonhof@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 6:27:04 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Neil Vonhof	Individual	Support	No

Comments: Include the amendment regarding nutritional value of hemp. Allowing this crop to grow in Hawaii is one of the most mature and sensible things we can do for our island sustainability. Thanks for your consideration.

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To: [AGL Testimony](#)
Cc: shannonkona@gmail.com
Subject: *Submitted testimony for HB154 on Mar 14, 2013 14:45PM*
Date: Wednesday, March 13, 2013 9:30:57 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Rudolph	Individual	Support	No

Comments:

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To: [AGL Testimony](#)
Cc: davidsher@juno.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 8:47:23 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Sherry Pollack	Individual	Support	No

Comments: I support HB 154, HD2, allowing industrial hemp cultivation in Hawaii. Hemp has been proven to be an effective soil remediation agent and is fast-growing, environmentally friendly, and a good feedstock for biofuel production. Hemp seeds are highly nutritious, and the fiber can be used for cloth, paper, plastics, and building materials, to name a few. Additionally, hemp paper is much easier to make, costs less to generate, saves trees, and lasts much longer. When considering these many benefits, combined with the steady growth in hemp product sales worldwide, it is clear that US farmers have been unfairly shut out from a lucrative market other countries have been benefiting from for years as a result of the misguided restrictions placed on industrial hemp. It's time for a common sense approach that can provide an economic boost for Hawaii, while providing a product everyone will benefit from.

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To: [AGL Testimony](#)
Cc: kaantoni@ksbe.edu
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Tuesday, March 12, 2013 10:06:48 AM

HB154

Submitted on: 3/12/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Susan Antonio	Individual	Comments Only	No

Comments: Aloha. I am writing in support of HB154 HD2 Industrial Hemp Pilot Program however, I support it only with an amendment to prohibit GM Hemp. The chair of the Board of agriculture should be given permission to convene a hemp remediation & biofuel pilot program. Hemp could be such an important crop in Hawai'i's economy. It is our future. We must start now. Mahalo for your consideration.

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: susan@chefteton.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 6:31:00 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
susan campbell	Individual	Support	No

Comments: Amendment: Please add the following language to Page 2 line 13 (13)
The legislature recognizes that Hawaii has a food deficit and hemp seeds have a high nutritional value*. Accordingly, part of the pilot program will focus on hemp production for nutrition. Note- *Hemp seeds (or nuts) have a 33% protein content which is of exceptionally high quality in terms of amino acid composition and occurring in nutritionally significant amounts and in a desirable ratio. The oil content is approximately the same at 33% and polyunsaturated fats and omega 6 and 3. Other significant nutritional factors are: iron, phosphorus, magnesium, manganese, zinc and other minerals.

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To: [AGL Testimony](#)
Cc: tracy.emills@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 7:34:50 AM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

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

Comments: I support this and ask that an amendment be made: Amendment: Please add the following language to Page 2 line 13 (13) The legislature recognizes that Hawaii has a food deficit and hemp seeds have a high nutritional value*. Accordingly, part of the pilot program will focus on hemp production for nutrition. Note- *Hemp seeds (or nuts) have a 33% protein content which is of exceptionally high quality in terms of amino acid composition and occurring in nutritionally significant amounts and in a desirable ratio. The oil content is approximately the same at 33% and polyunsaturated fats and omega 6 and 3. Other significant nutritional factors are: iron, phosphorus, magnesium, manganese, zinc and other minerals. Thank you for your time in reading and amending! Aloha, Tracy Mills Haiku 808-214-6136

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

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: daleb@hawaii.rr.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 12:31:08 PM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Dale B Bonar	Individual	Support	No

Comments: Amendment: Please add the following language to Page 2 line 13 (13)
The legislature recognizes that Hawaii has a food deficit and hemp seeds have a high nutritional value*. Accordingly, part of the pilot program will focus on hemp production for nutrition. Note- *Hemp seeds (or nuts) have a 33% protein content which is of exceptionally high quality in terms of amino acid composition and occurring in nutritionally significant amounts and in a desirable ratio. The oil content is approximately the same at 33% and polyunsaturated fats and omega 6 and 3. Other significant nutritional factors are: iron, phosphorus, magnesium, manganese, zinc and other minerals.

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

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From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: juggler@aloha.net
Subject: *Submitted testimony for HB154 on Mar 14, 2013 14:45PM*
Date: Wednesday, March 13, 2013 12:40:19 PM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Graham Ellis		Support	No

Comments:

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

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov

Testimony in favor of HB154, HD2

Senate Agriculture Committee/Energy and Environment Committee Hearing, 2:45 p.m.

Thursday, March 14, 2013, Conf. Room 229

Harry Ako

Professor and chair, Department of Molecular Biosciences and Bioengineering

University of Hawaii – Manoa

March 12, 2013

We need to create economic opportunities in Hawaii. Industrial hemp will give us an environmentally friendly, sustainable opening to do this.

From 1999 to 2003, as a University of Hawaii biologist specializing in **Biochemistry and Biotechnology**, I was involved with the Hawaii Industrial Hemp Research Project. (See attached documents.) From that experience, I know that industrial hemp can be successfully cultivated here, and that it can be done inexpensively.

An experimental plot for industrial hemp on Oahu would be inexpensive, even more so if we used UH-Manoa students as workers. In return, the project would provide the students with invaluable experience.

COST

I estimate that the cost for a two-year industrial hemp remediation project would be about \$85,000 for the first year (this figure includes \$20,000 to build a fence around the two-acre plot, plus \$5,000 for the seeds and overseas shipping for the seeds). The second-year cost estimate is \$60,000. This makes the two-year total estimate \$145,000.

This work would be a fortuitous partnership between expertise developed over the years between CTAHR (College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa), partner environmental managers, and the private sector including the fashion design industry, which could help generate an industrial hemp-based clothing industry in Hawaii. The two-year project would take place on a quarter-acre site initially. This would be

large enough to expand the preliminary studies of industrial hemp grown in pots to industrial hemp grown in fields.

Industrial hemp could take up and remove combustion product contaminants such as benzopyrene from the environment. These would include operations such as H-Power, the oil refinery, and military operations. Size wise, only permitting would limit our size because CTAHR is developing agronomic expertise and infrastructure for plants that grow faster than weeds in its federally funded bioenergy research. CTAHR also has connections with the environmental engineering companies in the State and can expand to other contaminants, including heavy metal and other organic contaminants. The baseline for all these studies is our world-class expertise in environmental chemistry and biochemistry.

Hemp also can be used as a biofuel feedstock. The project allowed for under HB154 HD2 would enable researchers to study the feasibility of using hemp for biofuel in Hawaii. This would enable Hawaii to rely less on imported oil, which is good economically and good for the environment.

For all of these reasons, I support HD154 HD2.

Please see attached documents from our 1999 industrial hemp project, including a copy of the original application for a registration certificate from the U.S. Drug Enforcement Administration (which bears my name and that of co-researcher David West of the University of Hawaii), the certificate itself, and a letter of support from Sen. Daniel Inouye.

Thank you for the opportunity to testify in support of HB154 HD2.

REVISED BID

DAVID'S FENCING
94-059 LEOKANE ST. #1
WAIPAHU, HI 96797
TEL. (808) 677-8060
FAX. (808) 671-5302

DATE: 7-26-99 / 8-3/99

LICENSE # C-10364

GAME TREE
363 S. WARREN ST -
PRESCOTT, WI 54021

JOB: POLE FACILITY IN
WHITMOOR VILLAGE

ATTN: DAVID P. WEST, PP # (715) 262-3162 FAX # 612-677-3538
(800) 895-9972

DESCRIPTION:

INSTALL AND FURNISH 480' X 10' HIGH CHAIN
LINK FENCE, WITH (1) 12' WIDE DOUBLE SWING
GATE - PLUS (3) STRANDS BARBWIRE.

MATERIALS:

CHAIN LINK

REDWOOD

9 GAUGE CHAIN LINK FABRIC
4" O.D. TERMINAL POST #40 PIPE
2 3/8" O.D. LINE POST #40 PIPE
1 5/8" O.D. TOP RAIL #40 PIPE
1 3/8" O.D. GATE FRAME #20 PIPE
7 GAUGE BOTTOM WIRE
(FED SPEC)

— REDWOOD BOARDS
— SPACING APART
— O.D. POST # 40
— POST APART
— REDWOOD RAILS
— (TOP & BOTTOM)
— (MIDDLE)

FITTINGS WILL ALL BE GALVANIZED

TOTAL COST: \$ 16376.00 INSTALLATION + MATERIALS
\$ 9438.00 LABOR ONLY

PRICE INCLUDE TAX, LABOR AND MATERIALS.
PAYMENT ~~HALF DOWN AND BALANCE UPON COMPLETION.~~
ALL PAST DUE BALANCE ARE SUBJECT TO A SERVICE CHARGE OF 1.5 %
PER MONTH AFTER 30 DAYS.
WORKMANSHIP GUARANTEED FOR 1 YEAR FROM DATE OF COMPLETION.
THIS BID IS GOOD FOR ONLY NINETY (90) DAYS.

**CONTRACTOR NOT LIABLE FOR ANY UNDERGROUND DAMAGE TO UTILITY
LINES OR PIPES, IF NOT AWARE OF BY CUSTOMER.**

YOURS TRULY,

WORK ACCEPTED BY:



SIGN: _____

DAVID G. ABELLANIDA, OWNER

DATE: _____

DAVID'S FENCING INC.
94 059 LEOKANE ST. BAY # 1
WALPAHU, HAWAII 96797
808-677-8060

CHAINLINK FENCE SPECIFICATION

FABRIC: 120" 9 GA. GALVANIZED (2" Mesh) CHAIN LINK FABRIC.

TOP RAIL: 1 5/8" O.D. FULL WEIGHT PIPE, 2.27 lbs. per foot. Top rail 21' in length, joined with 1 5/8" SLEEVE.

LINE POST: 3" O.D. FULL WEIGHT PIPE, 5.79 lbs. per foot. Line posts set 10' on center maximum spacing. Concrete footing: 12" diameter, 36" depth.

TERMINAL POST: 4" O.D. FULL WEIGHT PIPE, 9.10 lbs. per foot. Concrete footing: 12" diameter, 42" depth.

BRACING: Terminal posts braced and trussed to the nearest line post with 1 5/8" O.D. FULL WEIGHT PIPE and 3/8" TRUSS ROD & TRUSS ROD TIGHTENER.

GATES: Framework of 2" FULL WEIGHT PIPE, 2.72 lbs. per foot. Gates braced and trussed as necessary. Same fabric as fence.

GATE POST: 4" O.D. FULL WEIGHT PIPE, 9.10 lbs. per foot. Concrete footing: 12" diameter, 42" depth.

TENSION WIRE: 7 GA. COIL SPRING GALVANIZED TENSION WIRE attached to bottom of fence fabric with 9 GA. STEEL HOG-RING spaced 24" on center.

BARBED WIRE: 3 strands of 12 1/2 GA. 4 FT. GALVANIZED BARB WIRE on .

FITTINGS: HEAVY BRACE BAND & CARRIAGE BOLT, SEMI-STEEL RAIL END, MALLEABLE IRON CORNER BARB-WIRE ARM, 1/4" X 3/4" TENSION BAR, HEAVY TENSION BAND & CARRIAGE BOLT.

TIE WIRE: 10 1/2" 12-GA. STEEL TIE WIRE & 6 1/2" 9 GA. STEEL TIE WIRE spaced 15" on center for line posts & 24" on center for rails.

POST FOOTING: TRUCK Poured-CONCRETE.

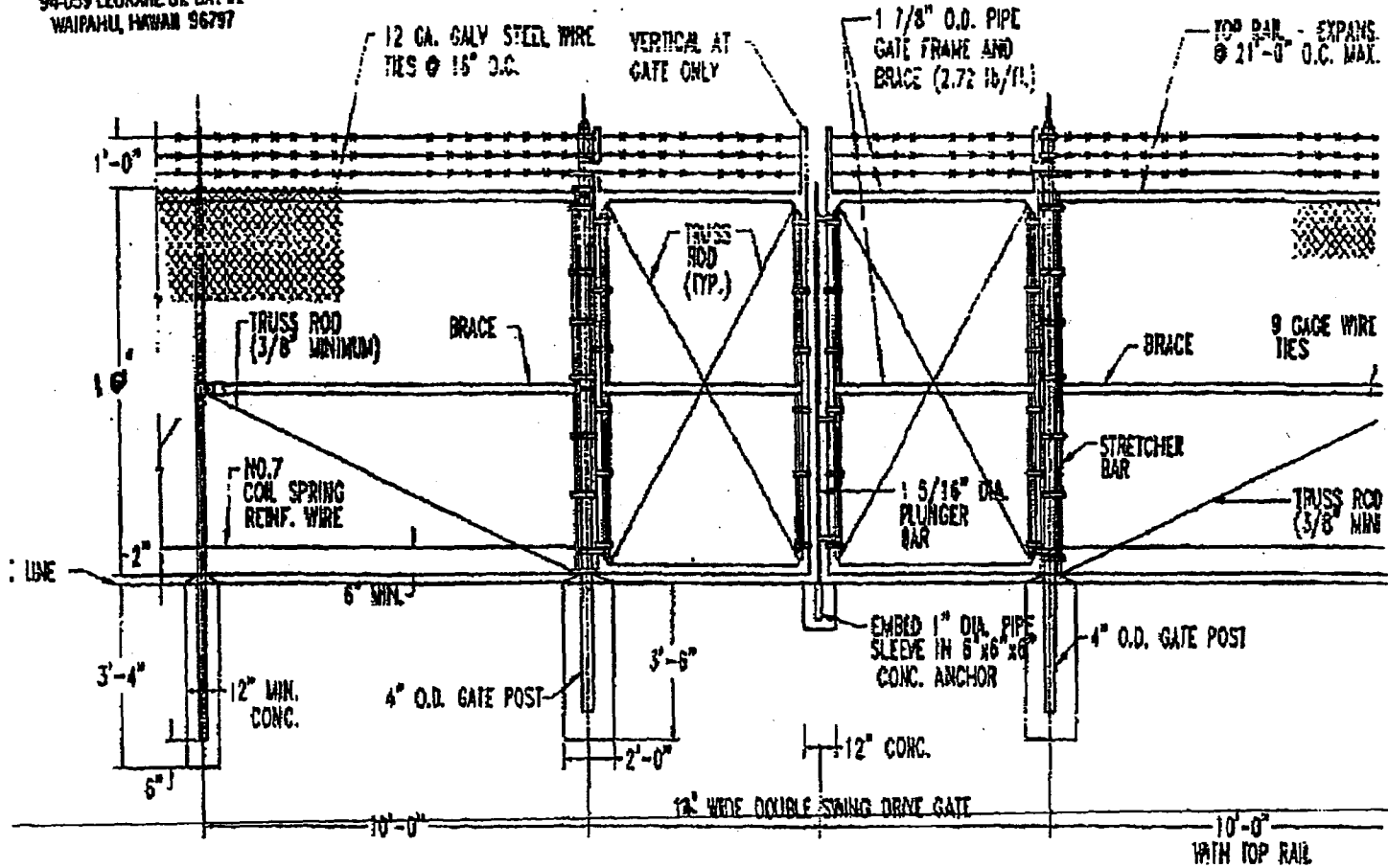
DAVID'S FENCING, INC.
 94-059 LEOKANE ST. BAY #1
 WAIPAHU, HAWAII 96797

P. 3

808-871-5802

DAVID'S FENCING, INC.

AUG 03 88 08:17a



GENERAL NOTES:

1. ALL FABRIC TO BE ^{#9 Cell} 9 GAGE WIRE WOVEN IN A 2" MESH TOP AND BOTTOM EDGES TO BE TWISTED AND BARBED.
2. HEIGHT (H) OF FENCE TO BE 10'-0" WITH 3 STRANDS OF 4 POINT BARBED WIRE SECURELY ATTACHED TO SINGLE EXTENSION

CHAIN LINK FENCE

NOT TO SCALE

SINGLE EXTENSION ARMS SHALL POINT OUTWARD
 AT AN ANGLE OF 45° TO ALL EXTENSION ARMS

CONTROLLED SUBSTANCE REGISTRATION CERTIFICATE
UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
WASHINGTON, D.C. 20537

Sections 304 and 1008 (21 U.S.C. 824 and 958) of the Controlled Substances Act of 1970, as amended, provide that the Attorney General may revoke or suspend a registration to manufacture, distribute, dispense, import or export a controlled substance.

DEA REGISTRATION
NUMBER

RN0253740

THIS REGISTRATION
EXPIRES

05-31-2000

FEE
PAID

EXEMPT

SCHEDULES

1

BUSINESS ACTIVITY

RESEARCHER

DATE ISSUED

11-18-1999

WEST, DAVID P PHD
UNIV OF HAWAII AT HILO ACT 305
HI INDUSTRIAL HEMP RESEARCH
1116 WHITMORE AVENUE
WAHIAWA, HI

96786

THIS CERTIFICATE IS NOT TRANSFERABLE ON CHANGE OF OWNERSHIP, CONTROL, LOCATION, BUSINESS ACTIVITY, OR VALID
AFTER THE EXPIRATION DATE.

FORM DE 223 (10/96)

THE UNITED STATES OF AMERICA



DEPARTMENT OF JUSTICE-DRUG ENFORCEMENT ADMINISTRATION

PERMITTED TO IMPORT

CONTROLLED SUBSTANCES

Date 11/21/1999

No. 2423

This is to certify that DAVID P. WEST, PH.D., HAWAII INDUSTRIAL HEMP RESEARCH PROJECT, 1116 WHITMORE AVE., WAHIAWA, HI 96786 is hereby permitted under the provisions of the Controlled Substances Import and Export Act to import through the port of HONOLULU, HAWAII

Drugs to be imported:

Item No.	Number and Size of Packages	Name of Substance or Preparation	Controlled Substance Content
1	TEN 1 POUND UNITS *****	CANNABIS SEED (VIABLE) NOTHING FOLLOWS	4540GM CANNABIS SEED *****

Total Number of Items ONE

From INDUSTRIAL HEMP SEED DEVELOPMENT COMPANY, 24907 WINTER LINE ROAD R.R. #8, CHATHAM, ONTARIO, N7M 5J8, CANADA

Shipment from the port of TORONTO, ONTARIO, CANADA to be made before 5/21/2000 The consignment proposed to be imported is required for legitimate purposes.



For the Administrator:

Paul A. Hugentober

Drug Enforcement Administration

Paul A. Hugentober, Chief
International Drug Unit

ORIGINAL—TO ACCOMPANY SHIPMENT.

NOTICE—Original (green) copy must accompany shipment.

NEW
APPLICATION FOR REGISTRATION
UNDER
CONTROLLED SUBSTANCES ACT OF 1970

READ AND COMPLETE ALL APPLICABLE ITEMS
Please PRINT or TYPE all entries

No registration may be issued unless a completed application form has been received (21 CFR 1301.21)

David P. West, Ph.D. Affiliate Faculty
University of Hawaii at Hilo
Act 305, Hawaii Industrial Hemp Research Project
1116 Whitmore Avenue
CITY STATE ZIP CODE
Wahiawa Hawaii 96786

RETAIN Copy 3. Mail Orig. and 1 copy with FEE to:

UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
CENTRAL STATION
P.O. Box 28083
WASHINGTON, D.C. 20038-8083
For INFORMATION, Call 1 - 800 - 882 - 9539

See "Privacy Act" Information on reverse

THIS BLOCK FOR DEA USE ONLY

REGISTRATION CLASSIFICATION: Submit Check or Money Order Payable to: DRUG ENFORCEMENT ADMINISTRATION in Amount indicated on enclosed fee schedule.

1. BUSINESS ACTIVITY: (Check one only; see NOTES on Instruction Sheet before checking.)
- G RESEARCHER H ANALYTICAL LAB E MANUFACTURER F DISTRIBUTOR
J IMPORTER K EXPORTER

2. DRUG SCHEDULES: (Check all applicable schedules in which you intend to handle controlled substances.) Complete item 9 if applicable.
- SCHEDULE I SCHEDULE II SCHEDULE III NARCOTIC SCHEDULE III NONNARCOTIC SCHEDULE IV SCHEDULE V

3. Check this block if applicant is exempt from payment of Registration Fee: If checked, applicant's superior must complete item 8.

4. Check here if you require Order Forms.

5. Supply any other DEA Registration Numbers for any class of business activity at the address shown on this application.

6. MANUFACTURERS ONLY
(Item 1E, Business Activity)

MANUFACTURERS CATEGORIES

SCHEDULES

Check Schedules & Category applicable in the boxes to the right. (Definitions on Reverse)

- A Bulk, Synthesizer-Extractor
B Dosage Form
C Repacker - Relabeler
D Non-Human Consumption

	I	II	III	III-Non	IV	V
A						
B						
C						
D						

7. ALL APPLICANTS MUST ANSWER THE FOLLOWING:

(a) Are you currently authorized to prescribe, distribute, dispense, conduct research, or otherwise handle the controlled substances in the schedules for which you are applying, under the laws of the State or jurisdiction in which you are operating or propose to operate?

YES - State License No. E04907

Not Applicable Pending

YES - State Controlled Substance No. _____

Not Applicable Pending

(b) Has the applicant ever been convicted of a crime in connection with controlled substances under State or Federal law, or ever surrendered or had a Federal controlled substance registration revoked, suspended, restricted or denied, or ever had a State professional license or controlled substance registration revoked, suspended, denied, restricted or placed on probation? YES NO

(c) If the applicant is a corporation (other than a corporation whose stock is owned and traded by the public), association, partnership, or pharmacy, has any officer, partner, stockholder or proprietor been convicted of a crime in connection with controlled substances under State or Federal law, or ever surrendered or had a Federal controlled substance registration revoked, suspended, restricted or denied, or ever had a State professional license or controlled substance registration revoked, suspended, denied, restricted or placed on probation? YES NO

IF THE ANSWER TO QUESTIONS (b) or (c) is YES, include a statement using the space provided on the REVERSE of this part.

David P. West, Ph.D.

(808) 895-9971

Print or Type Name Here - Sign Below

Applicant's Business Phone Number

SIGN HERE

David P. West
Signature of applicant or authorized individual

11/01/99
Date

8. CERTIFICATION FOR FEE EXEMPTION (Complete only if item 3 is checked)

The Undersigned hereby certifies that the applicant herein is an officer or employee of a Federal, State or local agency who, in the course of such employment, is authorized to obtain, dispense, or prescribe controlled substances or is authorized to conduct research, instructional activity or chemical analysis with controlled substances, and is exempt from the payment of this registration fee.

Harry Ako
Signature of Certifying Official

11/16/99

Date

Associate Professor & Dept. Co-Chair,
Harry Ako, Ph.D., Dept. of Environmental Biochemistry
Print or Type Name & Title

University of Hawaii

Name of Institution or Agency

9. DRUG CODE NUMBERS must coincide with the schedules requested. Listed below are the Drug Code requirements for each business activity:

Analytical Lab Not required to list drug codes

Distributor - Schedule I

Exporter - Schedule I thru V

Importer - Schedule I thru V

Researcher - Schedule I and II (See Note B on Instruction Sheet)

Manufacturer - Schedule I, II, III, IIIN in addition to codes furnished bulk manufacturer (synthesizer/extractor) applicants MUST Circulate below those "Basic Classes" of controlled substances in Schedules I and II which they propose to "Manufacture in Bulk".

IF ADDITIONAL SPACE IS REQUIRED, USE A SEPARATE SHEET AND RETURN WITH APPLICATION.

WARNING: Section 843(a)(4) of Title 21, United States Code, states that any person who knowingly or intentionally furnishes false or fraudulent information in this application is subject to imprisonment for not more than four years, a fine of not more than \$30,000.00 or both.

ATTACH CHECK HERE

U. S. Department of Justice / Drug Enforcement Administration
**APPLICATION FOR PERMIT TO IMPORT CONTROLLED SUBSTANCES
 FOR DOMESTIC AND/OR SCIENTIFIC PURPOSES**
 PURSUANT TO SECTION 1002, TITLE III, P.L. 91-513
 (Read Instructions on reverse before completing)

OMB APPROVAL
 No. 1117 - 0013

See reverse for Privacy Act

TO: **DRUG ENFORCEMENT ADMINISTRATION
 INTERNATIONAL DRUG UNIT (ODOI)
 WASHINGTON, D.C. 20537**

DATE
 11/01/99

IMPORTER'S APPLICATION NUMBER

Application is hereby made pursuant to the provisions of the Controlled Substances Import and Export Act and the regulations prescribed thereunder for a permit to import as follows:

1. NAME OF FOREIGN EXPORTER Industrial Hemp Seed Development Company A Research Division of Kenex Ltd.		2. ADDRESS OF FOREIGN EXPORTER 24907 Winter Line Road R.R. #8 Chatham, Ontario, Canada N7M 5J8	
3. FOREIGN PORT OF EXPORTATION Windsor, Ontario, Canada	4. PORT OF ENTRY (U.S. Customs port where shipment will clear) Honolulu, Hawaii, USA	5. LATEST DATE SHIPMENT WILL LEAVE FOREIGN PORT 11/30/99	
6a. NAME AND QUANTITY OF DRUG PREPARATION TO BE IMPORTED (Enter names as shown on labels; numbers and sizes of packages; strength, CSA Drug Code, and NDC Number)	6b. CONTROLLED SUBSTANCE CONTENT OF DRUG OR PREPARATION TO BE IMPORTED expressed as acid, base or alkaloid (Enter name of controlled substance contained in the drug; compound, or preparation)	6c. DATE IMPORTED AND ACTUAL QUANTITY (Completed by registrant at time of import) DEA PERMIT No.:	

Industrial hemp 1 ton

7a. ASSIGNED QUOTA FOR THIS YEAR	7b. TOTAL KG. AUTHORIZED ON PERMITS THIS YEAR	7c. KG. OF 7b. IMPORTED TO DATE	7d. STOCK ON HAND & DATE
----------------------------------	---	---------------------------------	--------------------------

8. IF SUBSTANCE(S) WILL BE IMPORTED FOR SCIENTIFIC PURPOSES ONLY, PLEASE COMPLETE:

I hereby certify the above controlled substances are imported exclusively for scientific purposes, pursuant to 21 CFR 1312.13(a)(4) (see reverse), as follows:

David P. West
 Signature of Certifying Individual

NAME OF IMPORTER David, P. West Ph.D. Hawaii Industrial Hemp Research Project	ADDRESS OF IMPORTER 1116 Whitmore Ave. Wahiawa, HI 96786
IMPORTER'S TELEPHONE NO. (808) 895-9971	DEA REGISTRATION NO.
SIGNATURE AND TITLE OF PERSON MAKING APPLICATION <i>David P. West</i> Lead Scientist, Hawaii Ind Hemp Res Proj	

NOTICE : Controlled Substances may not be imported by mail or parcel post.

DEA USE ONLY	APPROVED IMPORT PERMIT NUMBER	DATE IMPORT PERMIT NUMBER ISSUED
--------------	-------------------------------	----------------------------------



U. S. Department of Justice
Drug Enforcement Administration

Washington, D.C. 20537

OCT 3 2000

Honorable Daniel K. Inouye
United States Senate
Washington, D.C. 20510

Attn: Ms. Chrystn Alston Eads

Dear Senator Inouye:

This is in response to your letter dated August 14, 2000, requesting the status of the Drug Enforcement Administration's import permit for cannabis seed submitted by Dr. David West of the Hawaii Industrial Hemp Research Project. I am pleased to inform you that the permit was issued on September 21, 2000.

If I can be of further assistance, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Teresi", is written over a horizontal line.

Toni P. Teresi
Chief, Office of Congressional Affairs

DANIEL K. INOUYE
HAWAII

APPROPRIATIONS
Subcommittee on Defense

COMMERCE, SCIENCE, AND TRANSPORTATION
Subcommittee on Surface Transportation
and Merchant Marine

COMMITTEE ON INDIAN AFFAIRS

DEMOCRATIC STEERING COMMITTEE

COMMITTEE ON RULES AND ADMINISTRATION

United States Senate

SUITE 722, HART SENATE OFFICE BUILDING
WASHINGTON, DC 20510-1102
(202) 224-3934
FAX (202) 224-6747

PRINCE KUHIO FEDERAL BUILDING
ROOM 7-212, 300 ALA MOANA BOULEVARD
HONOLULU, HI 96850-4975
(808) 541-2542
FAX (808) 541-2549

101 AUPUNI STREET, NO. 205
HILO, HI 96720
(808) 935-0844
FAX (808) 961-5163

October 17, 2000

**The Honorable Cynthia Thielen
House of Representatives
State of Hawaii
State Capitol
Honolulu, Hawaii 96813**

Dear Representative Thielen:

I would like to share with you a copy of a letter I received from the Drug Enforcement Administration in response to my letter on your behalf.

The Hawaii Industrial Hemp Research Project permit to import cannabis seed has been issued. I am confident the project will continue to provide important information on which to determine the future of the hemp industry in Hawaii.

Once again, thank you for sharing your concerns with me.

Aloha,


**DANIEL K. INOUYE
United States Senator**

**DKI:cae
Enclosure**

From: [joann tool](#)
To: [AGL Testimony](#)
Subject: HB154 HD2
Date: Wednesday, March 13, 2013 11:38:02 AM

Testimony on HB154, HD2

Aloha Chairman Nishihara and Distinguished Committee Members,

I am writing in strong support of this bill, not because I have any expertise in the area of phytoremediation, but because I am a big fan of creative problem-solving.

As I understand it, this is a pilot program which could lead to the restoration of agricultural land contaminated by plantation monoculture and industrial contamination. It also promises biofuel as a by-product. Hemp research has been stalled heretofore, because it involves the same plant genus as marijuana, and so falls under the shadow of the decades-old "war on drugs." This climate of fear is still with us, which is why law enforcement agencies felt obliged to testify in opposition at the first hearing.

This legislation is both courageous and thoughtful. It pushes back against mindless fear. Beyond its specifics, it shows we can make distinctions, monitor programs, and find creative ways to solve old problems. This is exactly what our legislature should be doing.

Hawaii is small and isolated. Common sense says we should seek to restore food self-sufficiency, as much as possible. If we don't protect and restore our limited agricultural land now, it will soon be too late. Whatever we can do to diversify agriculture, and to increase its value, will in turn increase the value of arable land, and help shelter it from the onslaught of mindless development.

This project is a perfect model for a broader effort to make Hawaii self-sufficient, and more liveable for its permanent residents. Mahalo for your attention.

Dr. Laurence Tool, toolohana@hawaiiantel.net, 553-8384

From: [Kit Grant](#)
To: [AGL Testimony](#); [thielen1 -Nancy](#)
Subject: Strong support for HB154 HD2
Date: Wednesday, March 13, 2013 12:18:59 PM

Aloha Honorable Chairs and members of the Senate Committees on Agriculture and Energy & Environment:

I write in strong support of House Bill 154, to authorize a hemp phytoremediation project in Hawaii. Hemp is an ecologically sound method for removing contaminants from our soil, and the gentlest, fastest and most effective methods should be the only ones we consider for the limited space and delicate ecosystems of our islands. Decades of barely-regulated, pesticide-laden pineapple and sugar have left their residue on our lands. I would be very happy and proud to see fields of industrial hemp in their place, cleaning the soil for new uses and future generations and remediating the ever-increasing human and industrial pollution caused by our expanding population.

Hemp has no drug value, but has immense use as a plant, both for the erosion and toxins it binds as well as for the natural fiber and edible seeds it produces. Congress seems finally poised to end the counterproductive prohibition on its cultivation - which would smooth the way for HB154 HD3, cutting DEA approvals out of the implementation process.

As an island chain facing first-hand the devastating predictions for the future with global warming, Hawaii is rightly interested in aggressively pursuing sane, renewable alternative energies and erosion prevention strategies. HB154 HD2 also includes studying hemp as a biofuel feedstock - which is a great idea, and an area where Hawaii can lead the nation due to the likely high yield per acre of industrial hemp crops in Hawaii, a further boon to our farmers! Let's grow some hemp, Hawaii!

Respectfully submitted,

Kit Grant

(808) 232-9697

96822

From: [Tim Hall](#)
To: [AGL Testimony](#)
Subject: HB154 HD2
Date: Wednesday, March 13, 2013 12:01:22 PM

Aloha,

Tim Hall Live on the big Island and I support this bill HB 154 HD2. The US Navy needs a million barrels of bio-Diesel per year, This will create needed jobs and income for farmers in the islands. Dr Bronner's Soaps has a Fifty Thousand Dollar contract with Hemp Farmers in Kentucky this year! We need this Bill to repair the Aina from years of Abuse. Hemp is a cash crop that can be used to re grow Native Forests and clean the soil. We need income and hemp can make products to many to list. Mahalo for your support
Aloha, Tim Hall

From: mailinglist@capitol.hawaii.gov
To: [AGL Testimony](#)
Cc: jtt.hew@gmail.com
Subject: Submitted testimony for HB154 on Mar 14, 2013 14:45PM
Date: Wednesday, March 13, 2013 1:57:50 PM

HB154

Submitted on: 3/13/2013

Testimony for AGL/ENE on Mar 14, 2013 14:45PM in Conference Room 229

Submitted By	Organization	Testifier Position	Present at Hearing
Janeel Hew	Individual	Support	No

Comments: Greetings, Thank you for your consideration and time, regarding HB154, HD2. My name is Janeel Hew, and I stand in support of HB154,HD2. I urge you to please pass this Bill. In passing HB154,HD2, you will not only be helping repair the damage of our past soil abuse, but also protecting our future in it's requirement of fuel. This is an opportunity that should not be overlooked. The initiation of this passing will set the pace for the healing of our aina and our building of our future. Thank you in advance for the passing of HB154,HD2. Janeel Hew

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

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov



Committee: Committees on Agriculture and Energy and Environment
Hearing Date/Time: Thursday, March 14, 2013, 2:45 p.m.
Place: Conference Room 229
Re: Testimony of the ACLU of Hawaii in Support of H.B. 154, H.D. 2, Relating to Industrial Hemp

Dear Chairs Nishihara and Gabbard and Members of the Committees:

The American Civil Liberties Union of Hawaii (“ACLU of Hawaii”) writes in support of H.B. 154, H.D. 2, authorizing the Chair of the Board of Agriculture to establish an industrial hemp remediation pilot program.

Despite industrial hemp’s genetically distinct characteristics and its inability to produce a drug effect when smoked or ingested, hemp has become another victim of the senseless War on Drugs. The result has been an unnecessary restriction on the growing of a harmless plant and unreasonable criminal penalties against individuals who cultivate it.

Hemp is a renewable resource used in many industrial and other goods.¹

Hemp fibers are used in fabrics and textiles, yarns and raw or processed spun fibers, paper, carpeting, home furnishings, construction and insulation materials, auto parts, and composites. Hemp seed and oilcake are used in a range of foods and beverages, and can be an alternative food protein source. Oil from crushed hemp seed is an ingredient in a range of body-care products and nutritional supplements, and is also used for industrial oils, cosmetics, and pharmaceuticals.

Hawaii’s farmers should be allowed to grow hemp.

Hawaii’s farmers should not be denied the ability to grow and profit from hemp. Annual retail sales of hemp-based products in the U.S. are estimated to exceed \$400 million.² The value of U.S. imports of hemp was nearly \$10.5 million in fiscal year 2010.³ The single largest supplier of U.S. imports of raw and processed hemp fibers is China.⁴

Industrial hemp is cannabis having no more than 0.3% THC concentration.

¹ U.S. Congressional Research Service. Hemp as an Agricultural Commodity (RL32725; Jan. 19, 2012), by Renée Johnson. Available at <http://nationalaglawcenter.org/assets/crs/RL32725.pdf>; accessed Sep. 28, 2012.

² Washington Initiative Measure No. 502, Sec. 2(s) n.1., 2012.

³ *Id.*

⁴ *Id.*

Chairs Nishihara and Gabbard and Members of the Committees on Agriculture and Energy and Environment

March 14, 2013

Page 2 of 2

Current laws regulating hemp cultivation in the European Union and Canada use three tenths of one percent (0.3%) tetrahydrocannabinol (THC) concentration as the dividing line between industrial hemp and cannabis with intoxicating levels of THC (2% to over 20%), commonly called “marijuana.” The Industrial Hemp Farming Act of 2011⁵ also uses this definition for industrial hemp.

H.B. 154, H.D. 2 will remove the current threat of federal and state criminal and civil penalties for hemp production for the limited purposes of a state pilot program and take a step towards instituting reasonable, fair and practical laws relating to hemp.

Thank you for this opportunity to testify.

Sincerely,
Laurie A. Temple
Staff Attorney and Legislative Program Director
ACLU of Hawaii

The American Civil Liberties Union (“ACLU”) is our nation’s guardian of liberty working daily in courts, legislatures and communities to defend and preserve the individual rights and liberties that the Constitution and laws of the United States guarantee everyone in this country.

⁵ H.R. 1831, introduced in Congress by U.S. Representative Ron Paul on May 11, 2011, with 35 co-sponsors as of September 28, 2012. Companion bill S. 3501 was introduced by U.S. Senator Ron Wyden on August 2, 2012, with 3 co-sponsors.

From: [Robert Petricci](#)
To: [ENETestimony](#)
Cc: [AGL Testimony](#)
Subject: Testimony: HB154, AGL/ENE 229 Mar 14, 2013 2:45 PM
Date: Wednesday, March 13, 2013 1:53:48 PM

AGL/ENE 229 Mar 14, 2013 2:45 PM

RE: HB154,

Position: Strong support

Aloha

COMMITTEE ON AGRICULTURE

Senator Clarence K. Nishihara, Chair
Senator Ronald D. Kouchi, Vice Chair

COMMITTEE ON ENERGY AND ENVIRONMENT

Senator Mike Gabbard, Chair
Senator Russell E. Ruderman, Vice Chair

And committee members

My Name is Robert Petricci

Please support this common sense legislation to help our farmers and our economy. We are positioned to capture a portion of the growing hemp market. Other states and countries are moving to capture this market and we should not wait until we have to play catch up. Pacific biodiesel on the big island is interested in making fuel from hemp.

We should support this as a way to help our farmers, reduce our dependance on imported fossil fuels and to create spin off local industries. This really is a win win here.

Please support HB154.

Thank you for your consideration.

Robert Peticci