



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 HOUSE COMMITTEES ON AGRICULTURE, AND ECONOMIC  
DEVELOPMENT AND BUSINESS  
MONDAY, FEBRUARY 3, 2014  
9:30 A.M.  
CAPITOL AUDITORIUM

HOUSE BILL NO. 2660  
RELATING TO INDUSTRIAL HEMP

Chairpersons Wooley and Tsuji and Members of the Committees:

Thank you for the opportunity to testify on House Bill No. 2660. This bill authorizes the growing of industrial hemp for certain purposes under specified conditions. The Department of Agriculture has strong concerns as this measure assigns new and complex responsibilities to the Board of Agriculture and the Chairperson of the Board of Agriculture, without resources. This bill places emphasis on a single crop that is not currently grown in Hawaii and it will take resources away from other ongoing needs of Hawaii's diverse agricultural industry.

Hemp is a federally-controlled substance, and while the Department recognizes that this bill would not go in to effect until it is authorized under federal law, we feel it may be more prudent to wait for the passage of a federal law, as that law may contain language that could ultimately affect how this bill would be implemented.

Thank you for the opportunity to present our testimony.



Written Testimony Presented Before the  
House Committee on Agriculture  
And  
House Committee on Economic Development & Tourism  
Monday, February 3, 2014; 9:30 am

By

J. Kenneth Grace

**HB 2660 RELATING TO INDUSTRIAL HEMP**

Chairs Wooley and Tsuji, Vice Chairs Onishi and Ward, and members of the House Committee on Agriculture and the House Committee on Economic Development & Tourism, thank you for the opportunity to offer these comments on HB 2660, which authorizes the growing of industrial hemp for certain purposes under specified conditions.

My name is J. Kenneth Grace. I have been an agricultural researcher, department chair, and research administrator in Hawaii for 24 years. I am a resident of the Kaneohe – Kahaluu community, and am providing personal testimony today on HB 2660.

I support efforts to successfully grow all legal crops in Hawaii, and I have absolutely no opposition to hemp as such a legal crop. It is important to note that this bill would specifically not go into effect until such time as hemp is legal for cultivation under federal law. While I think it is exemplary to be prepared for legal hemp cultivation, I must question whether it is necessary to establish such a large, new advisory board under the Board of Agriculture specifically to regulate hemp cultivation. This board is stipulated to not only include a representative of hemp research at the University of Hawaii, although I am aware of no such research at present, but additionally two other representatives of unnamed agricultural research institutions; in addition to three members representing hemp growers, a representative of the “hemp industry,” a member representing hemp manufacturers, and yet another member representing hemp retailers; in addition to a public member as well. This is a very large 11-member board, with majority membership (6 members) by the currently nonexistent hemp industry. The Department of Agriculture, which is responsible for regulation of crops in Hawaii, is not represented on the advisory board.

I do not see the need for this large, industry-weighted advisory board, nor for a special regulatory structure for a legal crop. Again, this act would not go into effect until hemp was indeed a legal crop. Rather, I suggest that any regulations concerning cultivation of such a legal crop should be promulgated and enforced by the current regulatory agencies, such as the Department of Agriculture and law enforcement agencies.

Hemp is currently a novelty crop, due to its illegality for cultivation in the United States, and its close relationship to the psychoactive varieties of this same plant. The greatest use of hemp in the European Union is in pulp for cigarette rolling papers, a value-added product. As a legal crop in the USA, however, it is likely that hemp will return to its pre-illegalization status as a commodity crop for seed and fiber production, and I do not believe that interest in, nor the economic value of hemp for, cultivation in Hawaii will justify creation of a special regulatory structure or a special advisory board including members of every facet of the hemp industry.

February 1, 2014

Dear: Committee On Agriculture - Rep. Jessica Wooley, Chair & Rep. Richard H.K. Onishi, Vice Chair

Committee On Economic Development & Business - Rep, Clift Tsuji, Chair & Rep. Gene Ward, Vice Chair

Re: HB2660

Hearing Date: Monday, February 3<sup>rd</sup>, 2014 at 9:30am in Auditorium

Hawaii Sate Capitol 415 South Beretania Street, Honolulu, HI 96813

**Introduction:**

Aloha Committees and Representatives,

I am a resident of Maui County and the state of Hawaii. I am in full support of the bill HB2660 on behalf of legalizing industrialized hemp for the state of Hawaii.

I would love nothing more than to see hemp legal and be growing everywhere all over Hawaii. I hope you can support HB2060 which creates a state production tax credit for biofuels among many other benefits. This measure is critical to the future of sustainable biofuels in Hawaii, especially for transportation where our state is extremely behind in our renewable energy goals.

This crop would also allow us to create a new job market for the residents of the islands. It will help out our economy by bring in a new industry that is clean and friendly to the eco system of the Islands. It will also allow us to not have to import items from other countries. We will be able to create food, eco friendly building supplies and much more from the plant. This crop is an amazing resource for all who is involved and will help provide a healthy economic future for the state of Hawaii.

Please visit [http://www.votehemp.com/different\\_varieties.html](http://www.votehemp.com/different_varieties.html) and <http://www.ihemphi.com> to educate about the facts of how industrialized hemp can help our people and our land. Below is a link with just a few of the points of how hemp can help Hawaii and what it has to offer. Please take time to see how it can help

[http://www.votehemp.com/PDF/Why\\_Industrial\\_Hemp.pdf](http://www.votehemp.com/PDF/Why_Industrial_Hemp.pdf)

Mahalo,

**Danell Shrestha**

**Infuzed, LLC**

[www.infuzedbyme.com](http://www.infuzedbyme.com)

**808-250-2613**

**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Friday, January 31, 2014 4:18 PM  
**To:** AGRtestimony  
**Cc:** mauibrad@hotmail.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 1/31/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Brad Parsons	Individual	Support	No

Comments:

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Friday, January 31, 2014 4:19 PM  
**To:** AGRtestimony  
**Cc:** sherrianwitt@aol.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 1/31/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
sherrian witt	Individual	Support	No

Comments: I support the growing of hemp for commercial/industrial reasons. Hemp is a vital crop in todays world with many uses from clothing to cars... NO GMO HEMP....

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**Feb 1, 2014**

**HB2660 Legalizing the growing of Industrial hemp**

**Hearing Feb 3, 2014 9:30 AM**

TO: Chairs and [COMMITTEE ON AGRICULTURE](#)

Chair and [COMMITTEE ON ECONOMIC DEVELOPMENT & BUSINESS](#)

I, Denise Key, support HB2660 to legalize the growing of industrial hemp in Hawaii. There are 10 states who, currently have legalized the growing of industrial hemp. CA, CO, KY, ME, MT, ND, OR, VT, WA, and WV

**LET'S BE THE 11TH STATE TO LEGALIZE INDUSTRIAL HEMP and reap the many benefits of this amazing plant while reducing our need for imports!**

Here are a few points on the environmental and health benefits of industrial hemp:

- ~ We can wear it, eat it, build homes from it, bathe with it.
- ~ All health food stores in HI carry hemp products even Costco carries Hemp Hearts!
- ~ Reduce our imports while growing our own building materials that are:
  - o Mold resistant
  - o Insect resistant
  - o Fire retardant
- ~ Pulls toxins from the soil without using pesticides
- ~ Paper
- ~ Textiles
- ~ Food
- ~ Body Care
- ~ Clothing
- ~ Bio fuels

Growing hemp will create careers, jobs and improve our local economy.

**H**awaii's

**E**nvironmental

**M**oney

**P**roducer/product/plant (pick one)

Historically, hemp was important in America and several of the founding fathers grew it on their estates. [Thomas Jefferson](#) himself said, "Hemp is of first necessity to the wealth and protection of the country." There were times when farmers were legally required to grow it. During World War Two, the American government [encouraged farmers](#) to grow it to help aid the war effort

The hemp plant is a renewable resource that can be produced here. It grows quickly, naturally resists plant diseases, requires little weeding, thrives in most climates, and [enriches the soil](#) it grows in.

Hemp based materials can replace wood and other materials used to build homes and other structures including foundations, walls, shingles, paneling, pipes, and paint.

The modern hemp building materials, like [Hempcrete](#), are lightweight, waterproof,

fireproof, self-insulating, and resistant to pests.

Hemp is the only plant that contains all of the essential fatty acids and amino acids required by the human body. These essential nutrients affect a variety of body functions, including metabolism, the skin, mood, behavior, the brain, and the heart.

Hemp can be used to make a variety of fabrics, similar to but more durable than cotton. Hemp is also excellent for making rugs and other textiles. The word canvas comes from the Latin word for hemp. The oldest known woven [fabric](#) was made from hemp, as were Levi Strauss' original denim jeans, and the first American flag

Hemp is the traditional rope making fiber due to its flexibility, strength, and resistance to water damage. In past centuries, hemp was extremely important to the Navy, the shipping trade, and fishing because it was used to make ropes, riggings, nets, and sails.

Today, hemp oil can be used to create biofuels to [replace gasoline](#) for diesel engines. Unlike fossil fuels, biofuels are renewable and produce less of the greenhouse gas carbon monoxide.

Almost everything we buy is wrapped in cellophane and our landfills are full of it. A variety of alternatives to plastic can be made from hemp.

In 1941, [Henry Ford](#) held a media event where he swung an axe at a prototype car body made of hemp and other plant material to prove its strength. The technology was never put into mass production. Today BMW & Mercedes Benzes use hemp in their door panels!

Let's reap the benefits of this amazing life giving plant!

Make the growing of Industrial Hemp legal in HI.

Respectfully yours,

Denise Key

3065 Mapu Pl

Kihei, HI

[www.ihempHI.com](http://www.ihempHI.com)

Most of the information above is from the below resources

<http://www.informationdistillery.com/hemp.htm>

<http://www.votehemp.com>

[http://www.naihc.org/hemp\\_information/hemp\\_facts.html#history](http://www.naihc.org/hemp_information/hemp_facts.html#history)

**A Quick Guide to Hemp**

<http://www.saskhemp.com/hemp101/hemp101.htm>

an introduction to the many uses of hemp

**The Emperor Wears no Clothes**

<http://www.jackherer.com/chapters.html>

the extensive and well-researched full text of the book that helped start the modern hemp revolution, in print since 1985

**Environmental Benefits of Hemp**

[http://www.eap.mcgill.ca/CPH\\_3.htm](http://www.eap.mcgill.ca/CPH_3.htm)

a summary of the many environmental benefits of hemp from McGill University, including agricultural factors such as how hemp benefits the soil

TO: Chair of AGR and EDB

I, Rene Souza, am in support of HB2660 to legalize the growing of Industrial Hemp on Hawaiian Islands. Industrial Hemp is a healthy alternative to reduce or eliminate the need for Pesticides on our islands. Industrial Hemp benefits the health and well being of our Ohana, Aina and Local Economy.

Respectfully,  
Rene Souza

MENT & BUSINESS

Monday, Feb 3, 2014 9:30 AM  
State Capitol, 415 S Beretania St, Oahu HI  
HB 2660

Status RELATING TO INDUSTRIAL HEMP.

Authorizes the growing of industrial hemp for certain purposes under specified conditions.

AGR/EDB, JUD, FIN

DATE: Feb. 2, 2014

TO: Chair and committee members of AGR and EDB,  
I am in support of HB2660 to legalize the growing of Industrial Hemp on Hawaiian Islands. Industrial Hemp is a healthy alternative to reduce or eliminate the need for Pesticides on our islands. It is a bioremediator and also helps offset radiation. Hemp makes perfect sense for Hawaii. We can use it for food, clothing, building material and much more. Industrial Hemp benefits the health and well being of our Ohana, Aina and Local Economy. Let's lead the way on this one in the US. Many countries are already reaping the benefits of growing hemp! Please watch the movie bringing it home if you have not all ready. <http://www.bringingithomemovie.com/>

Respectfully

Courtney Bruch  
Kula, Maui

**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 7:46 AM  
**To:** AGRtestimony  
**Cc:** heywilson@earthlink.net  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Wilson Angel	Individual	Support	No

Comments: As a local native, I believe this wonderful state can be self-sufficient; a vision I've longed to see materialize. Many of our resources are at our fingertips. Abuse and destruction is so easy to see and to feel. We are SMARTER. I believe industrial hemp farming and production is our answer—the benefits are renown: economically and agriculturally. I believe it is our responsibility (kuleana) to act in totality to the betterment of humanity and nature—integrating both and sustaining a balance between them is paramount. I believe in our public servants to act in pono and not from pride, ego and selfishness. You are akamai. Be that; be wise. Mahalo.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 7:57 PM  
**To:** AGRtestimony  
**Cc:** wadenokaioi@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Wade Holmes	Individual	Support	No

Comments: I, Wade Holmes, support HB2660 to legaliza the of growing industrial hemp on Maui. There are so many environmental, social, and financial reasons to support this measure. As an ethnobotany graduate student at the University of Hawaii, I learned how important cannabis (hemp) has been historically. I am not exaggerating when I say t is literally one of the most utilitarian plants in human history. We can wear it, eat it, build homes from it, and bathe with it. All health food stores in HI carry hemp products even Costco carries Hemp Hearts! There are some very successful companies growing hemp.. Particularly Manitoba Harvest, a Canadian-based company, has been growing very rapidly as the demand for hemp products is increasing. Hawaii would be very wise to ride this tide! Especially Maui, as we look towards moving away from sugar cane towards a 21st Century industry. Hemp grows well in our subtropical environment and is known to be very drought-resistant as well as a good soil remediator due to some pollutants and heavy metals that have leached into our soils due to some other, less environmentally friendly industries. Thanks so much for your consideration. I love Hawai'i, and feel this is one of the most important things we can, and need, to do in order to protect this special place. Please do the Right Thing. For more information on the multiple uses for Industrial Hemp please go to: <http://www.votehemp.com> Respectfully, Wade Holmes Kihei, Maui

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 11:02 AM  
**To:** AGRtestimony  
**Cc:** valeriesapourn@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Valerie Sapourn	Individual	Support	No

Comments: Aloha, My name is Valerie Sapourn. I am resident of Maui and I support growing industrial hemp in the state of Hawaii. It is great resource that is renewable, uses less water and pesticides than sugar cane, and has numerous uses. Please keep Hawaii green but let's grow hemp instead of cane that causes diabetes and uses way too much water and poisonous pesticides. Mahalo for your time and your service. Valerie Sapourn

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 8:22 AM  
**To:** AGRtestimony  
**Cc:** unmanib@maui.net  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Unmani Cynthia Groves	Individual	Support	No

Comments: Suggest review of the viability reports from different states on <http://www.votehemp.com> as well as trying the 2 year hemp reserach study again potentially while watching closely the act to exclude industrial hemp from the Controlled Substance Act. It appears that industrial hemp didn't meet the real 6 tests for inclusion in that act! Apparently David West's research project had major hurdles from DEA. This year could be a better climate for it. The uses for hemp appear amazing. Not sure about the cost benefit analysis. Appears to be a great rotational crop for corn but needs soil remediation, doesn't do well in drought. What a boon to the economy when you look at all the products it could generate for local jobs with the right knowledge and equipment. It appears that the crop could do well here from David West's report. Just think we need more info on the economic viability and believe there should be a study. Reports on that website show a number of reports sent to Cynthia Thielen for review. Her testimony is invaluable. How much is the hemp foods market worth in the United States? The HIA estimates that the total value of annual sales of hemp foods in the United States for 2011 is about \$43.5 million. They also estimate that the total retail value of hemp food, supplement, and body care sales in the U.S. to be in the range of \$130-152 million for 2011. Sales of all hemp products in the U.S. is estimated to be around \$452 million. Market research obtained by the Hemp Industries Association (HIA), collected by the market research firm was obtained from natural and conventional food retailers, excluding Whole Foods Market and certain other establishments, who do not provide sales data — and thus underestimates actual sales by a factor of at least three. According to the data, combined U.S. hemp food and body care sales grew in the sampled stores by 7.3%, or \$2.98 million, over the previous year ending December 26, 2011 to a total of \$43.5 million." This does not even consider the economic value in regard to constru ction using hemp materials, reduction to the carbon footprint of the planet, water savings in production, the benefit of insect, mold and flame resistance in numerous products from building materials. paper, textiles, clothing, oils, renewable energy products It was unfortunate at the federal level due to heavy lobbying by the timber companies According to the Vote Hemp National Coordinator, <http://www.votehemp.com> "Industrial hemp was misclassified as a drug in the Controlled Substances Abuse Act. Industrial Hemp doesn't meet any of the 6 tests for actual inclusion related to that Act. Drug varieties only do meet it. The US Senate bills being tracked are S359 in the US Senate and HR 525 in the House to fix that. It is being tracked closely by <http://www.votehemp.com> . When this is fixed, this opens the market substantially. Mahalo for the opportunity to testify.

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**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 10:45 AM  
**To:** AGRtestimony  
**Cc:** terez\_lindsey@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Terez Lindsey	Individual	Support	No

Comments: Yes, please! This is the agribusiness boost Hawai'i nei needs! Mahalo!

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 10:57 AM  
**To:** AGRtestimony  
**Cc:** susnwills@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Susan Revak	Individual	Support	No

Comments: Aloha, I am in support of growing industrial hemp here in Hawaii. I eat hemp seeds, I put hemp oil in my smoothies for extra protein, My purse and my ipad cover are both made from 100% hemp. I wear hemp shirts, pants, skirts and dresses and these are my most comfortable and fashionable clothing items. Hemp is a fast growing plant which Hawaii can easily grow year round. And hemp requires very little, if ANY pesticide usage to grow abundantly. George Washington grew hemp and he was as patriotic as any of us. Please bring Hawaii current with this issue and legalize the growing of Industrial Hemp in Hawaii. Thank you.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 10:24 AM  
**To:** AGRtestimony  
**Cc:** sd3@hawaii.rr.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Susan Douglas	Individual	Support	No

Comments:

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 8:56 AM  
**To:** AGRtestimony  
**Cc:** Santacruzsushi@yahoo.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Steven Yonemura	Individual	Support	No

Comments:

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**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 6:58 PM  
**To:** AGRtestimony  
**Cc:** sherrianwitt@aol.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
sherrian witt	Individual	Support	No

Comments:

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## onishi2-Micah-Seth

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:54 PM  
**To:** AGRtestimony  
**Cc:** upcmodify@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

### HB2660

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

Submitted By	Organization	Testifier Position	Present at Hearing
shayne edelhertz	Individual	Comments Only	No

Comments: 1) Hemp is among the oldest industries on the planet, going back more than 10,000 years to the beginnings of pottery. The Columbia History of the World states that the oldest relic of human industry is a bit of hemp fabric dating back to approximately 8,000 BC. 2) Presidents Washington and Jefferson both grew hemp. Americans were legally bound to grow hemp during the Colonial Era and Early Republic. The federal government subsidized hemp during the Second World War and US farmers grew about a million acres of hemp as part of that program. 3) Hemp Seed is far more nutritious than even soybean, contains more essential fatty acids than any other source, is second only to soybeans in complete protein (but is more digestible by humans), is high in B-vitamins, and is 35% dietary fiber. Hemp seed is not psychoactive and cannot be used as a drug. See TestPledge.com 4) The bark of the hemp stalk contains bast fibers which are among the Earth's longest natural soft fibers and are also rich in cellulose; the cellulose and hemi-cellulose in its inner woody core are called hurds. Hemp stalk is not psychoactive. Hemp fiber is longer, stronger, more absorbent and more insulative than cotton fiber. 5) According to the Department of Energy, hemp as a biomass fuel producer requires the least specialized growing and processing procedures of all hemp products. The hydrocarbons in hemp can be processed into a wide range of biomass energy sources, from fuel pellets to liquid fuels and gas. Development of biofuels could significantly reduce our consumption of fossil fuels and nuclear power. 6) Hemp grows well without herbicides, fungicides, or pesticides. Almost half of the agricultural chemicals used on US crops are applied to cotton. 7) Hemp produces more pulp per acre than timber on a sustainable basis, and can be used for every quality of paper. Hemp paper manufacturing can reduce wastewater contamination. Hemp's low lignin content reduces the need for acids used in pulping, and it's creamy color lends itself to environmentally friendly bleaching instead of harsh chlorine compounds. Less bleaching results in less dioxin and fewer chemical byproducts. 8) Hemp fiber paper resists decomposition, and does not yellow with age when an acid-free process is used. Hemp paper more than 1,500 years old has been found. It can also be recycled more times. 9) Hemp fiberboard produced by Washington State University was found to be twice as strong as wood-based fiberboard. 10) Eco-friendly hemp can replace most toxic petrochemical products. Research is being done to use hemp in manufacturing biodegradable plastic products: plant-based cellophane, recycled plastic mixed with hemp for injection-molded products, and resins made from the oil, to name just a very few examples. Hemp History Hemp is among the oldest industries on the planet, going back more than 10,000 years to the beginnings of pottery. The Columbia History of the World states that the oldest relic of human industry is a bit of hemp fabric dating back to approximately 8,000 BC. Presidents Washington and Jefferson

both grew hemp. Americans were legally bound to grow hemp during the Colonial Era and Early Republic. In 1937 Congress passed the Marihuana Tax Act which effectively began the era of hemp prohibition. The tax and licensing regulations of the act made hemp cultivation unfeasible for American farmers. The chief promoter of the Tax Act, Harry Anslinger, began promoting anti-marijuana legislation around the world. To learn more about hemp prohibition visit <http://www.JackHerer.com> or check out "The Emperor Wears No Clothes" by Jack Herer Then came World War II. The Japanese attack on Pearl Harbor shut off foreign supplies of "manilla hemp" fiber from the Phillipines. The USDA produced a film called Hemp For Victory to encourage US farmers to grow hemp for the war effort. The US government formed War Hemp Industries and subsidized hemp cultivation. During the War and US farmers grew about a million acres of hemp across the midwest as part of that program. After the war ended, the government quietly shut down all the hemp processing plants and the industry faded away again. During the period from 1937 to the late 60's the US government understood and acknowledged that Industrial Hemp and marijuana were distinct varieties of the cannabis plant. Hemp is no longer recognized as distinct from marijuana since the passage of the Controlled Substances Act (CSA) of 1970. This is despite the fact that a specific exemption for hemp was included in the CSA under the definition of marijuana. The United States government has published numerous reports and other documents on hemp dating back to the beginnings of our country. Below is a list of some of the documents that have been discovered: \* 1797: SECRETARY OF WAR: U.S.S. CONSTITUTION'S HEMP \* 1810: JOHN QUINCY ADAMS - RUSSIAN HEMP CULTIVATION \* 1827: U.S. NAVY COMMISSIONER - WATER-ROTTED HEMP \* 1873: HEMP CULTURE IN JAPAN \* 1895: USDA - HEMP SEED \* 1899: USDA SECRETARY - HEMP \* 1901: USDA LYSTER DEWEY RE; HEMP & FLAX SEED \* 1901: USDA LYSTER DEWEY 13 PAGE ARTICLE ON HEMP \* 1903: USDA LYSTER DEWEY RE; PRINCIPAL COMMERCIAL PLANT FIBERS \* 1909: USDA SECRETARY - FIBER INVESTIGATIONS: HEMP/FLAX \* 1913: USDA LYSTER DEWEY - HEMP SOILS, YIELD, ECONOMICS \* 1913: USDA LYSTER DEWEY - TESTS FOR HEMP, LIST OF PRODUCTS \* 1916: USDA BULLETIN 404 - HEMP HURDS AS A PAPER MAKING MATERIAL \* 1917: USDA - HEMP SEED SUPPLY OF THE NATION \* 1917: USDA - CANNABIS \* 1927: USDA LYSTER DEWEY RE; HEMP VARIETIES \* 1931: USDA LYSTER DEWEY RE; HEMP FIBER LOSING GROUND \* 1943: USDA - HEMP FOR VICTORY - DOCUMENTARY FILM \* 1947: USDA - HEMP DAY LENGTH & FLOWERING \* 1956: USDA - MONOECIOUS HEMP BREEDING IN THE U.S. These documentes and many more are published online by USA hemp historian extraordinaire, John E. Dvorak. His Digital Hemp History Library is the most complete source for historical hemp documents and data anywhere. To visit the Library click [here](#). You can also check out literary references to Industrial Hemp from Aesop's Fables to the present: [http://www.ofields.com/OFIELDS\\_HEMP\\_HISTORY.html](http://www.ofields.com/OFIELDS_HEMP_HISTORY.html)

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**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 9:32 AM  
**To:** AGRtestimony  
**Cc:** sharon.marvel@gmail.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sharon Marvel	Individual	Support	No

Comments:

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 8:05 PM  
**To:** AGRtestimony  
**Cc:** foodsovereigntynow@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Mitsuko Hayakawa	Individual	Support	No

Comments: I am in strong support of legalizing industrial hemp. Hemp requires little or no pesticides, grows quickly and has a multitude of uses. It could be a lucrative commodity for our State.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 6:13 PM  
**To:** AGRtestimony  
**Cc:** mrgach@att.net  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Michael Reed Gach	Individual	Support	No

Comments: I support HB2660 to legalize growing industrial hemp on Maui. There are significant the environmental and health benefits of industrial hemp which will certainly be a boost to Hawaii's economy and add millions of badly needed HI state revenue. All health food stores including Costco in HI carry hemp products. This bill for legalizing industrial hemp would reduce our imports while growing our own building materials. There are many other healthy uses for industrial hemp, such as the production of paper, textiles, food and bio fuels. Thus, growing hemp will create careers, jobs and improve our local economy. Please support HB2660. Respectfully, Michael Reed Gach, Ph.D. Author & Producer Maui HI Resident

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 3:20 AM  
**To:** AGRtestimony  
**Cc:** janutouch@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Maria Clark	Individual	Comments Only	No

Comments: 02/02/2014 To:Chair of AGR and EBD I Maria Clark am in support of HB2660 to legalize the growing of industrial Hemp on Hawaiian Islands. Industrial Hemp is a Healthy alternative to reduce or eliminate the need for pesticides on our Islands. Industrial Hemp benefits the health and well being of our Ohana, Aina and local Economy. Respectfully, Maria Clark

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 4:54 AM  
**To:** AGRtestimony  
**Cc:** paikoman@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lisa Hallett	Individual	Support	No

Comments: Aloha House Ag Committee Members, I am in strong support of this bill. Hemp could be the crop that really helps Hawaii in so many ways - economically, amending depleted soil for other crops, ultra nutritious feed for LIVESTOCK, crop that needs very little amendments and care, SO MANY BENEFICIAL PRODUCTS, healthy source of OMEGA 3 -from seed, NO NEED SPRAY!, easy cover crop, etc. Small and large farmers could easily grow, heal the land, boost economy, with this 'no skills or money needed' crop. Please pass this bill and give Hawai'i's ag a healthy boost. Thank you for the opportunity to testify on such an important subject. Aloha, Lisa Hallett, Todd Andrews and Jessica Andrews

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 6:44 AM  
**To:** AGRtestimony  
**Cc:** islandket@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Karen Tilley	Individual	Support	No

Comments: I support the growing of industrial hemp in Hawaii.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:05 PM  
**To:** AGRtestimony  
**Cc:** naldajw@gmail.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
jw nalda	Individual	Support	No

Comments:

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**From:** Josephine Keliipio <j.lilinoe@gmail.com>  
**Sent:** Saturday, February 01, 2014 9:24 PM  
**To:** AGRtestimony  
**Subject:** I support HB 2660

Dear Committee,

I not only support the growing of industrial hemp, I also support the growing of medicinal hemp/cannabis BOTH of which I strongly believe could become major industries ahead of tourism. Our only big problem is having to deal with the corporate controlled federal government and anyone else at the State level who keeps clinging to the false belief that this plant is harmful. I guess people arent aware that the US medical system is way more of a threat to us ranking as the third leading cause of death. Starfield Study, JAMA, 2000.

So please pass this bill and keep the feds out of our business. Mahalo,

Josephine Keliipio

Kailua-Kona, Hawaii 96740

**onishi2-Micah-Seth**

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:08 PM  
**To:** AGRtestimony  
**Cc:** jessicamitchell51@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jessica Mitchell	Individual	Support	No

Comments: Hemp is wonderful! It can be used for many things and is great for soil remediation..

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 7:08 AM  
**To:** AGRtestimony  
**Cc:** jtrujill@hawaii.edu  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
james trujillo	Individual	Support	No

Comments: aloha, please accept this testimony in favor of passing HB 2660. this bill will help develop another agricultural product for hawaii. industrial hemp has been demonstrated to improve soil conditions and add to a local economic base through the cultivation and marketing of this multi purpose commodity crop. from seed, to fiber or as a bio-fuel stock industrial hemp can assist hawaii in numerous ways. please pass hb 2660 to increase hawaii's capacity to develop industrial hemp as a component for hawaii's agricultural future. mahalo for considering this testimony in favor of the passage of HB 2660. best of luck with your deliberations and i look forward to this bill's passage through the house and crossover to the senate chambers. with respect and aloha, james g trujillo po box 33 kapaa,hi

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 8:59 PM  
**To:** AGRtestimony  
**Cc:** harriet@passengerplanet.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Harriet Witt	Individual	Support	No

Comments: Please support legalizing the growing of industrial hemp in Hawaii. This will contribute to making us sustainable because hemp plants are proven to build healthy soil. Since much of our soil has been dangerously poisoned and depleted by irresponsible agribusinesses, this is vitally important. Furthermore, the increasing demand for the wide array of products made with industrial hemp can help us build a more diversified (healthier) economy. Mahalo and aloha, Harriet Witt

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 10:57 AM  
**To:** AGRtestimony  
**Cc:** akamaimom@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Felicia Cowden	Individual	Support	No

Comments: I strongly support experimenting with the potential of industrial hemp. From the information I have studied, it is my understanding it uses a fraction of the water required for sugar and even corn. It has bio-remediation qualities and will not require a great deal of chemicals. Very importantly, it has many vertical industry possibilities. It could be possibly be utilized as a rotational crop on the gmo-fields to sequester and remediate some of the soil contamination. That product could very possibly be utilized in the upcoming Kauai's bio-fuels energy plant. Future cultivation fields that are as of yet, less contaminated could be used for anything from building materials, or rope to exports for plastics, etc. Boutique organic fields can be grown in uncontaminated areas for food quality hemp seed and organic cottons. Any industrial agriculture will have impacts, but this seems like it could be beneficial in a multitude of ways, particularly if it is structured as a rotational crop so as to remediate rather than to exhaust soils. I ENTHUSIASTICALLY SUPPORT THE ABILITY TO EXPERIMENT WITH THE VIABILITY OF INDUSTRIAL HEMP. All new forms of agriculture would be wise to begin with an experimental phase before the full-phase introduction of an industry occurs. Hemp appears to have many benefits without evident, strong downsides.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:21 PM  
**To:** AGRtestimony  
**Cc:** tarogifts@aol.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Edie Bikle	Individual	Support	No

Comments: I am totally in favor of Hawaii legalizing industrial hemp. It is a multi-use crop-it will improve the soil, create jobs and give Hawaii something to export. The seeds are great for oil and livestock feed-hemp material could be manufactured here. It is a stupid archaic law that it is banned- and mostly so the big oil guys can make more money. There are some amazing things that can be made-hemp-crete and plastics just for starters. Maybe it will be a crop we won't have to worry about being another GMO drama! I have been a farmer and studied farming for years. I am very much in favor of hemp becoming legal to grow. Please lets make this happen-most importantly for future generations. Thank-you for your vision and foresight.

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:33 PM  
**To:** AGRtestimony  
**Cc:** gentlewave@hawaii.rr.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
David Dinner	Individual	Support	No

Comments:

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 9:27 PM  
**To:** AGRtestimony  
**Cc:** panther\_dave@yahoo.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dave Kisor	Individual	Support	No

Comments: Nobody in the federal government can explain how European nations and Canada can have regulations that prevent marijuana from being grown in their industrial hemp fields, but we can't seem to figure out how to in America. The problem as I see it is hemp is too competitive with numerous industries and American industry doesn't like competition, so they told the government to make hemp illegal. Rather than dig coal, drill oil and other such polluting substances and send them through leaky pipelines, they could grow and process hemp fuel on site. Cement is five times stronger with hemp fiber than regular concrete, forests wouldn't need be destroyed for paper, numerous vehicle types have been manufactured with hemp based materials and have stood up very well. We need industrial hemp! I definitely support HB2660!

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 10:26 AM  
**To:** AGRtestimony  
**Cc:** res1z0vb@hawaiiantel.net  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dana G. Moss	Individual	Comments Only	No

Comments: Aloha to all who are our representatives in the capital, Industrial Hemp is a plant that can easily turn our economy around here in the state of Hawaii. There are so many uses that are derived out of this plant. 1) high protein content of the cracked seeds Alpha Linolenic acid (LNA) Deficiency Symptoms - Omega 3 Linoleic acid (LA) Deficiency Symptoms - Omega 6 Dr Johana Budwig – A pioneer of Essential Fatty Acid Research The seven- time Nobel Prize nominee, Dr. Johana Budwig, a pioneer of E.F.A research, reported success in treating heart infraction, arthritis, cancer and other common diseases with massive doses of E.F.A.'s. Budwig's research indicates that many of these killer and crippling diseases may be caused in part by our diet of saturated fat and trans- fat, which are present in much of the food we eat. According to this healing Doctor, saturated fat and trans-fat befuddle the electronic charge of the unsaturated oils, which are present in cell membranes. 'This decreases the cells ability to receive and store electrons from the sun, which according to Budwig is a key factor in human health.' Alternatively, a balanced diet of E.F.A's keeps the charge of the unsaturated fats in the cells membranes working properly and electron rich. "The sun's rays are very much in harmony with humans. It is no coincidence that we love the sun. The resonance in our biological tissue is so strongly tuned to the absorption of solar energy that physicists who occupy themselves with this scientific phenomenon, the quantum biologists say that there is nothing on earth that has a higher concentration of solar energy photons than humans. This enrichment with solar energy depends strongly on the like energy aspects, a wavelength that is compatible with humans, and this is supported when we eat foods that have electromagnetic waves of solar rays--the photon. An abundance of these electrons, which are tuned to the solar energy frequency, exist, for example, in many seed oils. Scientifically these oils have even been designated as electron-rich, essential, highly unsaturated fats. (Budwig 1992) Budwig states that when we began to homogenize vegetable oils so that they would store better, we unknowingly changed their E.F.A. content into saturated fats in the ensuing heating process. These E.F.A. robbed, thus electron poor "promote the emergence of cancer.... They behave like tar, as insulators relative to the transport of electrons in living tissue." Alternatively, "electron-rich highly unsaturated oils... increase the absorption, storage and utilization of the sun's energy". So with the awesome amount of sun we have, the warm waters of Hawaii, the oil from Hemp we can create another marketing attraction for people from all over the world to come visit our blessed paradise. We grow the plant extract the oil get the hotels to use it in everything except cooking with it, they lay out in the sun and feel the beneficial properties and more energized. Cannabidiol (CBD) is a naturally occurring constituent/cannabinoid of the hemp plant and according to US government patent #6,630,507 it supports the nutritional health of aging bodies. This patent

recognizes cannabidiol's ability as an anti-epileptic (thwarts seizures), its anxiolytic effect (calming), its neuroprotectant properties (nervous system/brain protection), its ability to protect against cellular damage, its ability to protect brains from ischemic damage (helping blood and oxygen flow), the lack of toxicity or serious side effects in large acute doses, its ability to lower intraocular pressure in the treatment of glaucoma, and its powerful antioxidant activity which can be used in the prophylaxis and treatment of oxidation associated diseases (conditions generally thought to be correlated with oxidative stress are cancer, Parkinson's disease, Alzheimer's disease and autism). \*Source: US government Patent #6,630,507: "Cannabinoids as antioxidants and neuroprotectants" Building and cleaning the air at the same time with Hemp. 6)Hempcrete From Wikipedia, the free encyclopedia Construction block made with hemp Hempcrete is a mixture of hemp hurds (shives) and lime (possibly including natural hydraulic lime,[1] sand, pozzolans or cement) used as a material for construction and insulation.[2] It is marketed under names like Hempcrete, Canobiote, Canosmose, and Isochanvre.[3] Hempcrete is easier to work with than traditional lime mixes and acts as an insulator and moisture regulator. It lacks the brittleness of concrete and consequently does not need expansion joints.[3] However, the typical compressive strength is around 1 MPa,[4] around 1/20 that of residential grade concrete. Hempcrete walls must be used together with a frame of another material that supports the vertical load in building construction, as Hempcrete's density is 15% that of traditional concrete.[5] Like other plant products, the hemp crop absorbs CO2 gas as it grows, retaining the carbon and releasing the oxygen. 165 kg of carbon can be theoretically absorbed and locked up by 1 m3 of hempcrete wall over many decades.[6] 7)Hemp Plastic What Is Hemp Plastic? Hemp Plastic is an affordable bio based natural fibre composite to replace oil based raw materials. Designed in Europe over 15 years and now produced in China, Hemp Plastics compete with engineering compounds in properties such as stiffness and high heat tolerance (HDT). Both biodegradable and recyclable blends address global policies for CO2 reduction and oil dependence. Hemp plastics are not made from hemp oil or hemp seeds, but from the stalk. They are the preferred options to PP-glass fibre, High Heat ABS and PC/ABS. Flame retardant for specific grades, using halogen-free additives. Not only do we supply granules, we provide smart solutions for our customers, and for their customers. We will lead you through every step of injection moulding. NEW! 100% hemp keyrings, boxes, bowls and glasses case - available today. In case our standard grade materials do not meet your requirements, our expert team can develop suitable tailor-made grades. Hemp Plastic will substitute many products including: PP or PLA-based NF-FR compounds for E&E industry: housings(eg. Laptop, GPS, smartphones), audio/video (e.g. mobile phone chargers), household (eg. Lamps), cookware (eg. Blenders), personal care and electricity covers (eg. sockets). PP-based NF compounds for industrial construction parts, toys, civil works, railway Biodegradable NF compounds for gardening, waterworks and coastal erosion 7)Water and soil purification Hemp can be used as a "mop crop" to clear impurities out of wastewater, such as sewage effluent, excessive phosphorus from chicken litter, or other unwanted substances or chemicals. Eco-technologist Dr. Keith Bolton from Southern Cross University in Lismore, New South Wales, Australia, is a leading researcher in this area. Hemp is being used to clean contaminants at the Chernobyl nuclear disaster site. This is known as phytoremediation - the process by the cleaning radiation as well as a variety of other toxins from the soil, water, and air.[45] Weed control Main article: Weed control#Organic methods The dense growth of hemp helps kill weeds, even thistle. Hemp, because of its height, dense foliage and its high planting density as a crop, is a very effective and long used method of killing tough weeds in farming by minimizing the pool of weed seeds of the soil.[46] Using hemp this way can help farmers avoid the use of herbicides, to help gain organic certification and to gain the benefits of crop rotation per se. Due to its rapid, dense growth characteristics, in some jurisdictions hemp is considered a prohibited noxious weed, much like Scotch Broom. It has been used extensively to kill weeds in agriculture. And many more positive uses for INDUSTRIAL HEMP! Aloha No Dana G. Moss Kapauu 96755

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 6:22 PM  
**To:** AGRtestimony  
**Cc:** ckaloha@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
chris kehoe	Individual	Comments Only	No

Comments: 2/3/14 To the members of congress- I strongly support the implementation of rules and guidelines governing the growing of non-psychoactive agricultural hemp in Hawaii. Hemp has the potential to become an economic boon due to the diverse and multiple applications, while helping rebuilt fragile soils. Many States in the US have already removed laws that held farmers back from planting hemp. 2013 was the first year industrial hemp was legally grown in the US, while Canada, for over ten years now, has allowed farmers to compete on the global market with diversified products in numerous markets. Lets make 2014 the year Hawaii steps one foot into the future by allowing agricultural hemp to be grown and used for economic, ecological and educational purposes. Me ke aloha ke akua, C. Kehoe MauiFutures

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Saturday, February 01, 2014 8:19 PM  
**To:** AGRtestimony  
**Cc:** iAmCarey.LT@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/1/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Carey Lillis Tinsley	Individual	Support	No

Comments: Aloha i am writing to support this bill for industrial hemp because it will be good for people, good for Hawaii, and good for the earth. Mahalo Sincerely, Carey Kilauea a Kauai

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**From:** mailinglist@capitol.hawaii.gov  
**Sent:** Sunday, February 02, 2014 7:48 AM  
**To:** AGRtestimony  
**Cc:** madcower@gmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Bryce Boeder	Individual	Support	No

Comments: Pass this law, but revise it and make it easier for farmers to grow. There's too much regulations on a plant that should not be illegal in the first place. This could really help our economy out if implemented correctly. We need to encourage farmers to grow industrial hemp. Many will be turned off by the requirements in this bill, Please make it more viable for everyone. Thank you

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**Sent:** Sunday, February 02, 2014 9:44 AM  
**To:** AGRtestimony  
**Cc:** mauigrocery@gmail.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Blen Hinton	Maui Grocery Service Inc	Support	No

Comments:

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**Sent:** Sunday, February 02, 2014 9:40 AM  
**To:** AGRtestimony  
**Cc:** barb@punapono.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Barb Cuttance	Individual	Support	No

Comments: Thank you for hearing this bill and for the opportunity to give testimony. I strongly support this bill for a number of reasons as follows: Hemp is green crop--dry harvest-- an alternative to burning crops. It doesn't use pesticides, Growing it cleans the soil and the air--nature's remedy! It is tremendous for building homes Hemp is flame resistant It is insect resistant It is mold resistant, reducing carbon emissions, It will open our Hawaii market to local healthy jobs There are hundreds of multi added value products and Growing hemp here in Hawaii is energy that supports local, rather than having to import hemp Hemp doesn't need to use GMOs or pesticides due to its insect resistant. It saves on water Industrial hemp Is NOT the same plant variety as marijuana so shouldn't be confused as such! Please pass this bill. This is a great crop for Hawaii. Barbara Cuttance, 14/266 Papaya Farms Road, Hawaii 96778

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**Sent:** Sunday, February 02, 2014 8:25 AM  
**To:** AGRtestimony  
**Cc:** mauimagic5711@hotmail.com  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Ann Evans	Individual	Support	No

Comments: I am in support of Bill HB2660. It is long overdue that we have a viable crop in these islands. If you have done your homework, you will know that Industrialized Hemp is an amazing crop! One with MANY uses! The time is NOW. Lets do something SMART, in agriculture...something that does not harm our land and our people. (In fact, Hemp will re-mediate the soil that has been so damaged). Help Hawaii.

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**To:** AGRtestimony  
**Cc:** ab4@hawaii.edu  
**Subject:** Submitted testimony for HB2660 on Feb 3, 2014 09:30AM

**HB2660**

Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
amie buttke	Individual	Support	No

Comments: I Amie Stokes am in support of HB2660 to legalize the growing of Industrial Hemp on Hawaiian Islands. Industrial Hemp is a healthy alternative to reduce or eliminate the need for Pesticides on our islands. Industrial Hemp benefits the health and well being of our Ohana, Aina and Local Economy Respectfully, Amie Stokes ab4@hawaii.edu Makawao, HI

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**Sent:** Sunday, February 02, 2014 9:53 AM  
**To:** AGRtestimony  
**Cc:** kelsynaka@hotmail.com  
**Subject:** \*Submitted testimony for HB2660 on Feb 3, 2014 09:30AM\*

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Submitted on: 2/2/2014

Testimony for AGR/EDB on Feb 3, 2014 09:30AM in Conference Room Auditorium

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Kelsy	Individual	Support	No

Comments:

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