
A BILL FOR AN ACT

RELATING TO INDUSTRIAL HEMP.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The legislature finds that section 7606 of the
2 United States Agricultural Act of 2014 authorizes institutions
3 of higher education and state departments of agriculture to
4 conduct industrial hemp research. The legislature also finds
5 that industrial hemp can be grown or cultivated for research
6 purposes.

7 The legislature further finds that the State will benefit
8 from research for phytoremediation, which is the
9 environmentally-friendly science of using plants and trees to
10 remove toxins in the soil, such as metals, pesticides, solvents,
11 explosives, and crude oil. These toxins can be reduced by
12 planting specific plants and trees, called hyper-accumulators,
13 in polluted areas. Specifically, these plants and trees draw in
14 the toxins, along with beneficial nutrients, through their roots
15 as nourishment and concentrate them in their stems, shoots, and
16 leaves, which can then be harvested and disposed of safely. The
17 nutrient uptake process leaves a clean, balanced, and nutrient



1 rich soil, which can then be safely used for agriculture or
2 improving conservation habitats.

3 The legislature additionally finds that hemp is a superior
4 phytoremediator because it grows quickly and can extract toxins
5 without the need to remove any of the contaminated topsoil.
6 Other factors that make hemp a superior phytoremediator are its
7 ability to grow unaffected by the toxins it accumulates, its
8 fast rate of absorption, and its ability to bind compound
9 contaminants from the air and the soil. A factor that makes the
10 State a particularly compelling candidate for hemp-based
11 phytoremediation is that the State's extensive agricultural
12 operations in the past have left toxins in vast tracts of land.
13 Phytoremediation will remove those toxins.

14 The legislature also finds that industrial hemp is an
15 environmentally friendly and efficient feedstock for biofuel.
16 Biodiesel plants already in existence in the State are capable
17 of meeting eight per cent of the State's biodiesel needs for
18 ground transportation. These biodiesel plants could increase
19 their efficiency by utilizing industrial hemp as a feedstock,
20 thus reducing the State's reliance on imported fuel.

21 The purpose of this Act is to authorize the dean of the
22 college of tropical agriculture and human resources at the



1 University of Hawaii at Manoa to establish a two-year industrial
2 hemp remediation and biofuel crop research program.

3 SECTION 2. (a) The dean of the college of tropical
4 agriculture and human resources at the University of Hawaii may
5 establish the two-year industrial hemp remediation and biofuel
6 crop research program. Through the research program, the dean
7 may determine how soils and water may be made more pristine and
8 healthy by phytoremediation, removal of contaminants, and
9 rejuvenation through the growth of industrial hemp, as well as
10 the viability of industrial hemp as a biofuel feedstock. The
11 dean may work in collaboration with the United States Army Corps
12 of Engineers, its affiliates, and the Department of Molecular
13 Biosciences and Bioengineering at the University of Hawaii John
14 A. Burns school of medicine to determine the viability of
15 industrial hemp as a biofuel feedstock.

16 (b) The dean of the college of tropical agriculture and
17 human resources at the University of Hawaii may submit a final
18 report, including any proposed legislation, to the legislature
19 no later than twenty days prior to the convening of the regular
20 session of 2016 on the following:

- 21 (1) The rate of contamination uptake from soil and water;
22 (2) The mode of efficient uptake from soil and water;



- 1 (3) The rate of carbon fixation in the Calvin cycle;
- 2 (4) The locations in the roots, stems, leaves, and flowers
- 3 of the plants at which contaminants are fixated;
- 4 (5) What contaminants are stabilized in the plants;
- 5 (6) What contaminants on the site need additional
- 6 treatment in order to make the soil or water healthy
- 7 and pristine;
- 8 (7) A baseline for plants cultivated in a clean soil;
- 9 (8) The viability of industrial hemp as a biofuel
- 10 feedstock; and
- 11 (9) Any other data deemed important by the dean.

12 SECTION 3. No person in the research program established
13 pursuant to section 2 shall be subject to any civil or criminal
14 sanctions in this State for growing or possessing industrial
15 hemp; provided that the person's growing or possessing of
16 industrial hemp is part of the individual's participation in the
17 two-year industrial hemp remediation and biofuel crop research
18 program and the person's participation is in full compliance
19 with the requirements of the program.

20 SECTION 4. For purposes of this Act, the term "industrial
21 hemp" means the plant *Cannibis sativa* L. and any part of that
22 plant, whether growing or not, with a delta-9



1 tetrahydrocannabinol concentration of not more than 0.3 per cent
2 on a dry weight basis. Any plant in the research program
3 established pursuant to section 2 that meets the definition of
4 "industrial hemp" under this section shall not constitute
5 "marijuana" as defined in section 329-1 or 712-1240, Hawaii
6 Revised Statutes.

7 SECTION 5. This Act shall take effect on July 1, 2014, and
8 shall be repealed on July 1, 2016.



S.B. NO.

2175
S.D. 2
H.D. 1
Proposed

Report Title:

Industrial Hemp; Two-year Industrial Hemp Remediation and Biofuel Crop Research Program; College of Tropical Agriculture and Human Resources; University of Hawaii

Description:

Authorizes the dean of the college of tropical agriculture and human resources at the University of Hawaii at Manoa to establish a two-year industrial hemp remediation and biofuel research program. Permits the dean of the college of tropical agriculture and human resources to submit a final report to the legislature prior to the convening of the regular session of 2016. Defines industrial hemp. Repeals 07/01/2016. (HD1 Proposed)

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