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A BILL FOR AN ACT

RELATING TO AGRICULTURE.

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

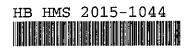
1 SECTION 1. The legislature finds that an increasing number 2 of large-scale, outdoor commercial agricultural operations are 3 using extremely high volumes of pesticides on their fields in 4 the State. Many of these commercial agricultural operations 5 cultivate genetically engineered organisms for the production of 6 crop seed. They also cultivate these genetically engineered organisms for the development of experimental genetically 7 8 engineered organisms that are not approved for human consumption 9 or release into the open environment. The legislature further finds: 10

11 (1) The rapid, long-term, and unregulated growth of 12 commercial agricultural entities that are engaged in 13 the testing and production of genetically engineered 14 organisms and their extensive use of pesticides on 15 their properties in Hawaii threaten the stability and 16 growth of Hawaii's agricultural economy, the health of 17 its citizens, and the overall environment;



1 The cultivation of genetically engineered crops can (2) 2 have serious effects on the environment. For example, in 2013, ninety-three per cent of all soy grown in the 3 United States was engineered to be herbicide 4 resistant. In fact, the vast majority of genetically 5 engineered crops are designed to withstand herbicides, 6 7 and, therefore, promote indiscriminate herbicide use. 8 As a result, genetically engineered, herbicide 9 resistant crops have caused 527,000,000 pounds of additional herbicides to be applied to the nation's 10 farmland. These toxic herbicides damage the vitality 11 and quality of our soil, harm wildlife, contaminate 12 our drinking water, and pose health risks to consumers 13 14 and farmworkers: 15 (3) Many pesticides used in large-scale, outdoor

16 commercial agriculture in the State are classified as
17 restricted use pesticides by the United States
18 Environmental Protection Agency. Restricted use
19 pesticides are pesticides that the Agency has
20 determined likely to cause "unreasonable adverse
21 effects on the environment" if they are used without



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1 additional regulatory restrictions. Many restricted 2 use pesticides used in large-scale, commercial agriculture in the State are known to be toxic to 3 humans, animals, bees, and other insects. Many of 4 5 these pesticides are known to contaminate groundwater or persist in the environment. Some of the pesticides 6 7 used in the State are subject to limited local use or 8 total bans in other states and in other countries; 9 (4) Pesticide-laden dust and drift from both restricted 10 use pesticides and general use pesticides is often inevitable and results in long-term exposure to toxic 11 12 chemicals harmful to Hawaii's residents, wildlife, and 13 endangered species, and are sources of pollution to 14 the natural environment of the State; 15 (5) Increased use of herbicides in genetically engineered

16 agriculture has resulted in the rapid development and 17 proliferation of previously unknown herbicide-tolerant 18 superweeds. The proliferation of these superweeds 19 threatens to overtake the habitat of native flora and 20 fauna in uncultivated lands and forces farmers to use



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1		increasingly toxic and expensive herbicides to remove
2		them from cultivated lands;
3	(6)	Insect-resistant genetically engineered crops pose a
4		high risk of fostering rapid evolution of pests
5		resistant to organic pesticides, to the detriment of
6		organic farmers, and they also facilitate
7		agriculturally and environmentally harmful
8		monoculture, such as growing corn continuously on the
9		same field year after year;
10	(7)	Due to its export value and contribution to the
11		State's employment and food security, agriculture is a
12		vital component of Hawaii's economy;
13	(8)	Organic production of crops and food is a growing
14		sector of the agricultural economy in Hawaii. The
15		organic sector relies on maintaining its reputation
16		for high quality organic and conventional crops.
17		Preserving the identity, quality, and reliability of
18		Hawaii's agricultural products and exports is critical
19		to its economic well-being;
20	(9)	Transgenic contamination can and does occur as a
21		result of cross-pollination, comingling of



1 conventional and genetically engineered seeds, 2 accidental transfer by animals or weather events, and 3 other mechanisms. Transgenic contamination results in 4 genetically engineered crops growing where they are 5 not intended; 6 Currently, no mechanisms exist to guarantee that (10)7 transgenic contamination will not occur; 8 (11)The contamination of agricultural products with 9 genetically engineered material can have myriad 10 significant impacts. Organic and many foreign markets 11 prohibit genetically engineered crops, and even a 12 single event of transgenic contamination can and has 13 resulted in significant economic harm when the 14 contaminated crops are rejected by buyers. Farmers 15 and other parties who lose markets through no fault of 16 their own as a result of transgenic contamination may 17 not find adequate legal recourse. Further, 18 contamination causes the loss of the fundamental right 19 to choose, for the farmer and the public, to sow crops 20 that are not engineered;



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1 The genetic engineering of plants and animals often (12)causes unintended consequences. Manipulating genes 2 3 via genetic engineering and inserting them into 4 organisms is an imprecise process. The results are 5 not always predictable or controllable. Mixing plant, 6 animal, bacterial, and viral genes through genetic 7 engineering in combinations that cannot occur in 8 nature may produce results that lead to adverse health 9 or environmental consequences;

10 (13) Independent scientists are limited from conducting
11 safety and risk-assessment research of genetically
12 engineered materials due to industry restrictions on
13 research of those materials;

14 (14) The rapid development and introduction of genetically 15 engineered crops, combined with inadequate regulatory 16 oversight at the state and federal levels, have left 17 the citizens of Hawaii with significant concerns regarding the long-term safety of genetically 18 19 engineered crops. The United States Food and Drug 20 Administration does not require or conduct safety studies of genetically engineered foods. Instead, any 21



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1 safety consultations are voluntary, and genetically 2 engineered food developers may decide what information 3 to provide to the agency. Market approval of genetically engineered food is based on industry 4 research alone. There have been no long-term or 5 epidemiological studies in the United States that 6 7 examine the safety of human consumption of genetically 8 engineered foods; 9 (15)The department of agriculture does not have an 10 adequate regulatory structure in place to monitor 11 genetically engineered crops and pesticides or to aid in the understanding of the impacts of genetically 12 13 engineered crops and pesticides on the local 14 agricultural economy, environment, or public health. 15 The direct, indirect, and cumulative impacts on Hawaii regarding the long-term intensive cultivation of 16 17 genetically engineered organisms and their associated 18 agricultural practices, including pesticide use, have 19 not been properly or independently studied; 20 Residents of the State have no choice but to live, (16) 21 work, and commute daily in close proximity to areas



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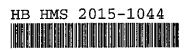
1 where genetically engineered crops are being 2 cultivated and where pesticides are being sprayed. Residents are growing increasingly concerned about the 3 direct and long-term impacts that the large-scale use 4 of restricted use pesticides has on the land, on the 5 natural environment, and on their health; and 6 7 (17)Hawaii's county governments and any other political 8 subdivisions as established under article VIII, 9 section 1, of the Hawaii constitution, have the right to respond to the concerns of their constituents and 10 11 promulgate regulations regarding genetically 12 engineered organisms and their associated pesticide 13 use. 14 The purpose of this Act is to address the health and

14 The purpose of this Act is to address the health and 15 welfare and environmental concerns of Hawaii's residents 16 relating to the use of agricultural genetically engineered 17 organisms and pesticides, particularly the role of the counties 18 in addressing those matters.

19 SECTION 2. The Hawaii Revised Statutes is amended by 20 adding a new chapter to be appropriately designated and to read 21 as follows:



1		"CHAPTER
2	COUNTI	ES; REGULATION OF GENETICALLY ENGINEERED ORGANISMS AND
3		PESTICIDES
4	S	-1 Purpose. The purpose of this chapter is to:
5	(1)	Affirm the right of any county government or other
6		political subdivision in the State of Hawaii to
7		promulgate and enforce local laws, regulations, or the
8		like, relating to the use of genetically engineered
9		organisms within its jurisdiction;
10	(2)	Affirm the right of any county government or political
11		subdivision in the State to promulgate and enforce
12		local laws, regulations, or the like, relating to the
13		use of pesticides within its jurisdiction; and
14	(3)	Preserve the right of any county government or other
15		political subdivision in the State to protect the
16		health and welfare of its citizens, its agricultural
17		economies, and its natural environment from the harms
18		attributed to genetically engineered organisms and
19		pesticides.



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S -2 Construction. The provisions of this chapter shall
 be construed liberally so as to effectuate the purpose of this
 chapter.

4 § -3 Definitions. As used in this chapter, the
5 following terms shall have the following meanings unless the
6 context shall indicate another or different meaning or intent:

7 "Defoliant" means any substance or mixture of substances
8 intended for causing the leaves or foliage to drop from a plant,
9 causing or without causing abscission.

10 "Desiccant" means any substance or mixture of substances
11 intended for artificially accelerating the drying of plant
12 tissues.

13 "Genetically engineered" means produced from an organism or 14 organisms in which the genetic material has been changed through 15 the application of:

16 (1) In vitro nucleic acid techniques that include, but are
17 not limited to, recombinant deoxyribonucleic acid
18 (DNA) or ribonucleic acid (RNA), direct injection of
19 nucleic acid into cells or organelles, encapsulation,
20 gene deletion, and doubling; or



(2) Methods of fusing cells beyond the taxonomic family
 that overcome natural physiological, reproductive, or
 recombination barriers, and that are not techniques
 used in traditional breeding and selection such as
 conjugation, transduction, and hybridization.

6 "In vitro nucleic techniques" include, but are not limited to, 7 recombinant DNA or RNA techniques that use vector systems, and 8 techniques involving the direct introduction into organisms of 9 hereditary materials prepared outside the organisms such as 10 biolistics, microinjection, macro-injection, chemoporation, 11 electroporation, microencapsulation, and liposome fusion.

12 "Organism" means any biological entity capable of 13 replication, reproduction, or transferal of genetic material. "Pest" means any insect, rodent, nematode, fungus, weed, or 14 any other form of terrestrial or aquatic plant or animal life or 15 16 virus, bacterium, or any other microorganism, except viruses, 17 bacterium, or any other microorganisms on or in living humans or other living animals, which the administrator of the United 18 States Environmental Protection Agency determines to be a pest 19 20 pursuant to the Federal Insecticide, Fungicide and Rodenticide 21 Act.



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1 "Pesticide" means:

2 (1) Any substance or mixture of substances intended for
3 preventing, destroying, repelling, or mitigating any
4 pest; and

5 (2) Any substance or mixture of substances intended for
6 use as a plant regulator, defoliant, or desiccant.

7 "Plant regulator" means any substance or mixture of 8 substances intended, through physiological action, for 9 accelerating or retarding the rate of growth or maturation or 10 for otherwise altering the behavior of plants or the produce 11 thereof, but does not include substances to the extent that they 12 are intended as plant nutrients, trace elements, nutritional 13 chemicals, plant inoculants, and soil amendments.

14 -4 Local authority; regulation of genetically S 15 engineered organisms. (a) Any county or any other political 16 subdivision established pursuant to article VIII, section 1, of 17 the state constitution may, through authorities and powers 18 established in its governing charter, choose to regulate 19 genetically engineered organisms consistent with this section. 20 (b) It shall be within the jurisdiction of any county or 21 political subdivision established pursuant to article VIII,



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1 section 1, of the state constitution to determine the parameters 2 of its regulation over genetically engineered organisms, which 3 may include regulations on the production, use, advertising, 4 sale, distribution, storage, transportation, formulation, 5 packaging, labeling, certification, registration, propagation, 6 cultivation, raising, growing, testing, notice, disclosure, or 7 reporting, or recordkeeping of genetically engineered organisms. 8 (c) Nothing in Hawaii's existing laws governing plant 9 pests, plant quarantine, noxious weeds, or seed genetic purity 10 shall preempt or prohibit any county or political subdivision 11 established pursuant to article VIII, section 1, of the state 12 constitution from regulating genetically engineered organisms. 13 Nothing in this section shall authorize or empower a (d) county or any other political subdivision established pursuant 14 15 to article VIII, section 1, of the state constitution to adopt a local law, regulation, ordinance, or policy that is less 16 17 stringent than any laws of statewide applicability, any requirements established by the United States Department of 18 19 Agriculture, or any other federal laws in existence at the time 20 when the local law, regulation, ordinance, or policy is adopted,



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or that is adopted for statewide or federal applicability after
 the local adoption.

3 § -5 Local authority; regulation of pesticide use. (a)
4 Any county or political subdivision established pursuant to
5 article VIII, section 1, of the state constitution may, through
6 authorities and powers established in its governing charter,
7 choose to regulate pesticides consistent with this section.

8 (b) It shall be within the jurisdiction of any county or 9 political subdivision established pursuant to article VIII, 10 section 1, of the state constitution to determine the parameters 11 of its regulations over the sale or use of pesticides, which may 12 include regulations on the sale, use, recordkeeping, disclosure, 13 notification, or reporting of pesticides.

14 (c) Nothing in Hawaii's existing statewide pesticide
15 regulations, codified chapter 149A, shall preempt or prohibit
16 any county or political subdivision established pursuant to
17 article VIII, section 1, of the state constitution from
18 regulating the local sale, use, recordkeeping, disclosure,
19 notification, or reporting of pesticides.

20 (d) Nothing in this section shall authorize or empower a21 county or political subdivision established pursuant to article



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VIII, section 1, of the state constitution to adopt a local law, regulation, ordinance, or policy that is less stringent than any laws of statewide applicability, any requirements established by the United States Environmental Protection Agency, or any other federal laws in existence at the time when the local law, regulation, ordinance, or policy is adopted, or that is adopted for statewide or federal applicability after the local adoption.

8 S -6 Enforcement. Any county or political subdivision
9 established pursuant to article VIII, section 1, of the state
10 constitution that chooses to regulate genetically engineered
11 organisms or pesticides, or both, may establish terms of
12 violation and penalties violation.

13 § -7 Severability clause. If any provision of this 14 chapter or the application thereof is held to be invalid, the 15 remainder of its application to other situations or persons 16 shall not be affected."

17 SECTION 3. This Act shall take effect on July 1, 2015.18

INTRODUCED BY:



JAN 2 3 2015



Report Title:

County Authority; Genetically Engineered Organisms; Pesticide Use

Description:

Authorizes counties to regulate genetically engineered organisms and pesticide use to the extent that the regulations are more stringent than state or federal laws.

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