James M. Jeffords Center's Vermont Legislative Research Service

Labeling Genetically Engineered Foods

The Food and Drug Administration DA) is "responsible for assuring that foods sold in the United States are safePah-(sn(o)16(at)a)4gp6(atro)8gp8thet)PDAtdGtatriot have the legal power to enforce labeling standardscommodities and food products "on consumer interest alone..producers are allowed to label their own food products as long as they meet conditions set by the FDA. Since labeling is done voluntarily, consumer interest has grown regarding the labeling of products that have been genetically engineered. This haptedom states to introduce legislation that would establish labeling and ardson genetically engineered commodities such as food products, seed stock, seed stock.

On January 23, 2013, the Vermont Stategislature introduced H112 An Act Relating to the Labeling of Food Produced with Genetic Engine Tingecentral component of the bill its provide that food is misbranded if it is entirely or partially produced with genetic engineering and is not labeled as genetically engineer Stimilarly, on February 8th, 2013, Washington StateInitiative 522. The People's Right to Know Genetically Engineered Foodwast approved by Secretary of State Kim Wynamid submitted to Washington State Legislature which may either pass it, allow it to be placed on Movember ballot, or put a legislative

alternative on the ballof This report examines the fiscale alth and environmental associated with these proposed laws regarding netic engineering of foods.

Definitions

In this report, Genetic Engineering (GE) is defined Fas dproducts produced through modern methods of biotechnology such as recombinant DNA techniques and cell fus Toan 's genic Crops refers to \$\psi\$

cautioned that the potential for occupational and consumer risks needs to be [properly] assessed. He assessed to be [properly] assessed. He assessed to be [properly] assessed.

Thequestion oftoxicity within GE crops was initially raised when a study emerged regarding the negative effect of a lectin transgene on rat's intestines. This study was later deemed

canola. Crops that are resistant can withstand applicant of the herbicide, which in turn, kills weeds that do not have the transgener.

Insect Resistance

 Additionally, a wild plant that is not desired in an agricultural environment, defined as a weed, can receive a gene and therefore takes on the same herbinesistant traits as the original. Weeds with glyphosate resistance have been emerging and there are six known species in the United Stat

have a choice of which to consume and ideally dilute texeprosure.32

Conclusion on Environment Effects

This section happrovided information for the potential effects associated with the use of genetically engineered crops, butted to their relatively recent use there is not much research on the long-term environmental impacts n conclusion, weed control has be demonstrated to be a problem, while reduced use of pesticides is an advantage to support the rest of the concerns regarding the impact of GE crops the environmental not be available until additional research is completed

Current State Legislation arding the Labeling of Genetically Engineered Products Washington

On February 8, 2013, Washington's Secretary of State certified Initiative, 522 wn as The People's Right to Know Genetically Engineered Food Ath's initiative "would require most raw agricultural commodities, processed foods, seeds and seed stocks, if produced using genetic engineering ... to be labeled as genetically engineered when offered for retail sale." The Department of Health would be in charge of enforcing state regulations. In addition Attorney General, through the Department of Health, would be in charge of overseeing claims and cases against those who violate 22. The measure passes through the legislature or

Vermont

On January 29h, 2013, H112, "An Act Relating to the Labeling of Food Produced with Genetic Engineering" was introduced to the Vermonstate legislature. Sponsors of the bill argue that since the FDA and U.S. Congress do not require genetically engineered food to be produced, state mandated labeling laws will "prevent inadvertent consumer deception, promote food safety, respect religious beliefs, protect the environment, and promote economic development. The Commissioner of Health would be in charge of ensuring state GE labeling standards are being adhered folf H-112 passest would go into effect on July 1, 20 fd. Highlights of H112 state that any processed food that contains "one or more ingredients that have been produced with genetic engineering" is exempt from 12 until July 1, 2019, along as "[n]o single such ingedient accounts for more than habit 0.9 percent of the total weight of the processed food; and processed foodoes not contain more than 10 such ingredients in addition, food or seed that has been determined by an independent organization to not be produced with genetic engineering lil be also exempt.

Components and Exemptions regarding "Right to Know" Legislation

Since there are so many similarities between the components and exemptions surrounding Right to Know legislation, this report has compiled two tables to better examine right to know legislation in Vermonand WashingtonSee Appendix A and B. Tables to the components associated with state legislation and Table 2 lists its exemptions that tables, Y is defined as Yes, meaning that this component/exemption is a part of the State sight to Know legislation.

Asseenin Appendix Avermont does notequire genetically engineered seed stock to be labeled. Vermont prohibits the use of terms such as "natural," "naturally made," "naturally grown," and "all natural" on food products that have been "produced entirely or in part from genetic engineering. ⁴⁶

In Appendix BVermontand Washingtorexempt the labeling of food products administered for the treatment of medicalconditions. Washingtorexempts food products that are consistent with the most recent gidelines on performancecriteria and validation of methods for detection, identification, and quantification of specific DNequences and specific proteins in foods and does not nesting of processed foods in which no DNA is detectabled in most does not require the following to be labeled coholic beverages and the identification of any ingredient(s) that were genetically eingered. Washington exemptanimals fector injected with GE materials long as animals themselves are not produced through genetic engineering.

³⁹ Vermont State Legislature, "Journal of the House,7879

⁴⁰ Vermont General Assemblyl,112,p. 8.

⁴¹ Vermont General Assembly,112, pp. 1617.

⁴² Vermont General Assemblyl,112, p. 19.

⁴³ Vermont General Assembly,112,p. 19.

⁴⁴ Vermont General assembly, **14** 2, p. 14.

⁴⁵ Vermont General Assemblyl,112, p.13.

Potential Fiscal Impacts of Implementing "Right to Know" Legislation

Since there have been few states that have introduced "Right to Know" Legislation, this repor will be referring to the fiscal impactoncerns aised in Conecticut's HE522 since they have explicitly stated and addressed them.

Connecticut and H55117

Regarding the fiscal costs surrounding-**51B**7, the Connecticut Office of Fiscal Analysis cited potential cost regarding the State's General Fund. The requirements surrounding Section 3 "may result in significant costs to [the] Department of Agriculture as the agency would need to hire a consultant with the scientific knowledge required to dtate regulations. ⁴⁶ However, there would be no municipal impact. In addition, the Department of Consumer Protection "currently has information available to publish the online list required under [Section 5] of the bill."

Conclusion

Due to the recent naturef genetice