

DAVID Y. IGE  
Governor

SHAN S. TSUTSUI  
Lt. Governor



State of Hawaii  
**DEPARTMENT OF AGRICULTURE**  
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SCOTT E. ENRIGHT  
Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER  
Deputy to the Chairperson

**TESTIMONY OF SCOTT E. ENRIGHT  
CHAIRPERSON, BOARD OF AGRICULTURE**

**BEFORE THE SENATE COMMITTEE ON AGRICULTURE & ENVIRONMENT**

**FEBRUARY 1, 2018  
2:30 P.M.  
CONFERENCE ROOM 016**

**SENATE BILL NO. 2568  
RELATING TO PESTICIDES**

Chairperson Gabbard and Members of the Committee:

Thank you for the opportunity to testify on Senate Bill No. 2568 that appropriates funds to implement the findings and recommendations of the joint-fact finding study group's ("JFF") report on pesticide use by large agribusiness on Kauai. The JFF strove to address specific concerns regarding pesticide use by certain entities on the island of Kauai and identify any data gaps regarding pesticide exposure and adverse effects to humans and the environment. The Department supports this Bill and appreciates the potential of supplementary funding to address those concerns. The Department has already begun implementation of many of these recommendations, working closely with other state and federal agencies.

The Department would also like to point out, however, that there are concerns with the potential implication that the Department will implement all of the recommendations published the JFF's report, as many of these recommendations are not within the purview of the Department.

Thank you for the opportunity to provide testimony on this measure.





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February 1, 2018

HEARING BEFORE THE  
SENATE COMMITTEE ON AGRICULTURE AND ENVIRONMENT

**TESTIMONY ON HB 2568  
RELATING TO PESTICIDES**

Room 16  
2:30 PM

Aloha Chair Gabbard, Vice Chair Riviere, and Members of the Committee:

I am Randy Cabral, President of the Hawaii Farm Bureau (HFB). Organized since 1948, the HFB is comprised of 1,900 farm family members statewide, and serves as Hawaii's voice of agriculture to protect, advocate and advance the social, economic and educational interests of our diverse agricultural community.

**The Hawaii Farm Bureau opposes SB 2568**, which appropriates \$3,000,000 to implement the recommendations of the joint fact finding study group's report on pesticide use by large agribusinesses on Kauai.

At a time of scarce State resources but many valid and competing needs for funding, the proposed three million dollar allocation to implement the scientifically unwarranted and roundly criticized JFF study group's recommendations is not justifiable.

**JFF group's recommendations are not a logical result of its findings**

The JFF group was mainly comprised of non-expert volunteer community members who came into the process already believing that large agriculture was causing problems on the west side of Kauai. They carefully scrutinized every available source of information regarding pesticide usage including studies, data, and public input. Instead of confirming the group's bias, their studious review and conclusions serve to reassure the public that large agriculture on Kauai is NOT causing health and environmental impacts on the west side of Kauai.

**JFF group conclusions:**

- The Kauai health data **does not** show a causal relationship between pesticides used by the seed companies and health problems found on the west side or any other part of Kauai.
- There is **no evidence** that shows causality between seed companies' pesticide use and any harm to Kauai's flora and fauna.
- Data gathering should continue.

## **DOA and other agencies have taken significant action to address the JFF recommendations**

Both DOA and DOH have addressed the JFF group's recommendations to assess existing environmental data and identify gaps in information required to make informed policy decisions. The informational briefing on December 11 to the House Committee on Health & Human Services and the Committee on Agriculture provided a detailed status update from DOA, DOH, USGS, a representative from the Birth Defect Registry, and others. **The reports from ongoing agency studies confirmed that the west Kauai community and environment are not being harmed by agricultural pesticides.**

DOH and DOA have sought guidance from, and formed partnerships with federal, state and research partners including: U.S. Geological Survey, U.S. EPA and the Migrant Clinicians Network, Agency for Toxic Substances and Disease Registry (ATSDR), Western States Pediatric Environmental Health Specialty Unit, Hawaii Poison Control Center, Hawaii Birth Defects Registry, John A. Burns School of Medicine, University of Hawaii School of Nursing, Hawaii Emergency Physicians Association, and Kauai Veteran's Memorial Hospital.

The result of this collaboration with experts was to initiate programs to increase environmental sampling, conduct interagency emergency response exercises for pesticide incidents, and increase public health education and outreach.

1. Recent **environmental monitoring** of air, surface water, drinking water, and sediment has shown that there is no threat to people or wildlife from agricultural pesticides. However, to obtain more data, DOH has contracted with the U.S. Geological Survey which is currently conducting a \$500,000 long-term, comprehensive pesticide surface water quality monitoring project, with DOH providing technical and scientific assistance.
2. To **train first responders** to be adequately prepared in the case of a pesticide emergency, interagency pesticide tabletop exercises have been conducted through the Hawaii State Emergency Response Commission with other organizations including Fire Departments, HAZMAT, Emergency Medical Services, Department of Education, Hawaii Occupational Safety and Health (HIOSH) and other county representatives.
3. **Public health education and outreach** is being conducted. A team from DOH has already met with Kauai physicians to resolve birth defects registry discrepancies noted in the JFF. Since the majority of pesticide exposures reported to Poison Centers nationwide and the Hawaii Poison Center occur *in the home* and not from large-scale agricultural incidents, DOA is re-starting its "Pesticide Poisoning Prevention Services for Households" outreach program to educate families and communities about how to better protect their children and how to obtain assistance in the event of potential exposure. Physicians and other healthcare professionals are being helped to recognize and manage pesticide incidents and a children's environmental health symposium was conducted. DOH is also working with the Hawaii Poison Center to offer Hawaii-specific information on how to report and respond to pesticide exposure through a free hotline service, operated by medical professionals 24/7. DOH conducted an Emergency Medical Services/physician training on hazardous chemicals in partnership with Kapiolani Community College and the Louisiana Poison Center with participants attending

from all islands. Additional pesticide-specific trainings for each of the counties have been developed.

4. The “**Good Neighbor Program**” that more stringently restricts farmers’ use of pesticides than programs in any other state has been extended from Kauai statewide.

#### **Support needed for critical DOA pesticide programs**

HFB supports a robust pesticide regulatory program under the Department of Agriculture, as delegated by the U.S. EPA. To that end, we respectfully suggest that DOA receive adequate funding and positions to accomplish its duties. We also support the reasonable increase of pesticide licensing fees and the removal or raising of the Pesticide Use Revolving Fund cap on what DOA can retain to support its programs. As the safe use of pesticides is a priority within the department, funding should be allocated to programs found to require more attention: pesticide education for the general public and for immigrant farmers, and improvements made to liaison with and augment the University of Hawaii CTAHR's Pesticide Safety Education Program.

#### **Use of 3 million dollars to implement unreasonable and scientifically invalid JFF recommendations is not warranted**

DOA and DOH are already addressing concerns raised in the JFF recommendations. We should focus our limited resources on real issues that do harm in our communities.

HFB is concerned that, along with other pressures that make farming in Hawaii extremely challenging, further unwarranted restrictions on farming will be the demise of commercial agriculture in Hawaii, and with that, the end of any hope for self-sufficiency, while providing no additional safety for our communities.

We hope you will take our concerns into consideration as you deliberate on this bill. Thank you very much for your support of Hawaii’s farmers and ranchers.



February 1, 2018

Committee on Agriculture and Environment  
Hawaii Senate  
Hawaii State Capitol, Rm. 016  
Honolulu, HI 96813

**RE: SB 2568; RELATING TO PESTICIDES (COMMENTS)**

Dear Chair Gabbard, Vice Chair Riviere, and Members of the Committee:

On behalf of the Western Plant Health Association (WPHA), please accept our comments on SB 2568, which would allocate \$3,000,000 to implement the recommendations of the Kauai Joint Fact Finding (JFF) Committee. WPHA represents the interests of fertilizer and pesticide manufacturers, agricultural biotechnology providers, and agricultural retailers in Hawaii, California, and Arizona.

WPHA supports the legislature providing the Hawaii Department of Agriculture with the financial tools to conduct scientifically valid assessments in the use of pesticides that HDOA determines is needed to insure public and environmental safety. WPHA is concerned that SB 2568 appears to infer that HDOA should undertake all of the recommendations of the JFF. While WPHA appreciates the efforts of all the volunteers who participated on the JFF, the findings of the JFF study do not reflect the recommendations of all committee members. WPHA requests that language be added to SB 2568 that clarifies that in the allocation of the funding, that HDOA with consultation from its appropriate sister agencies, will determine which scientifically valid recommendations should be implemented, as well as prioritizing any project implementation.

WPHA supports providing HDOA with resources to further determine and implement the scientifically valid recommendations of SB 2568 and to enhance the efforts of DOA in assuring that all pesticide products are assessed and used safely. We thank the committee for its commitment in helping HDOA fulfill its mandate. We thank you for your consideration of our comments.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Pinel", written over a white background.

Renee Pinel  
President/CEO



## **Board of Directors**

TESTIMONY FROM BENNETTE MISALUCHA, EXECUTIVE DIRECTOR

### President

Alan Takemoto

### **To Provide Comments on SB 2568 Relating to Pesticides**

### Vice-President

Joshua Uyehara

SENATE COMMITTEE ON AGRICULTURE AND ENVIRONMENT  
February 1, 2018, 2:30 p.m.  
Conference Room 016

### Secretary

Dawn Bicoy

Chair Gabbard and members of the committee:

### Treasurer

Laurie Yoshida

HCIA is a Hawaii-based non-profit organization that promotes modern agriculture to help farmers and communities succeed. Through education, collaboration, and advocacy, we work to ensure a safe and sustainable food supply, support responsible farming practices, and build a healthy economy.

### Directors-at-Large

Adolf Helm

Mark Stoutemyer

Dan Clegg

Gene Harrington

Thank you for the opportunity to provide **comments on SB 2568**, which makes an appropriation to implement the recommendations of the joint fact-finding (JFF) study group's report on pesticide use by large agribusinesses on Kauai.

### President Emeritus

Kirby Kester

Foremost, HCIA supports the legislature fully funding the Hawaii Department of Agriculture (HDOA) and the Hawaii Department of Health (HDOH). We have confidence in their ability to scientifically assess and implement the appropriate measures required to ensure that both public health and the environment are protected.

### Executive Director

Bennette Misalucha

Our primary concern with this legislation is that the JFF's findings do not support the report's recommendations. To follow are the key conclusions:

- There is no evidence of health or environmental impacts associated with the industry's pesticide use.
- Incidence of cancer among the island's population in areas rumored to be contaminated using pesticides was similar to or lower than that of the rest of the state.
- Two incidents of purported pesticide exposure at Waimea Canyon Middle School were found not to be pesticide related.
- Kauai's seed companies were responsible for less than 25 percent of restricted use pesticide (RUP) use on the island.

In addition to the JFF, numerous other studies and investigations further outline why the recommendations listed in the JFF report are overreaching, many of which were reinforced in a Dec. 11, 2017 info briefing on the JFF:



- A Hawaii Department of Agriculture Pesticide Branch investigation into 16 school evacuations over 8 years due to complaints about pesticides found that none of the incidents were due to activities of seed companies.<sup>1</sup>
- A report prepared by the Hawaii Tumor Registry for the Hawaii State Department of Health concluded that there is no evidence of higher incidence of cancer on the island of Kauai overall or for specific geographic regions of the island, as compared to the state of Hawaii.<sup>2</sup>
- A State Department of Health study of 136 different pesticides in surface water samples from 24 sites across the state found only a trace detection of pesticides, with the majority representing minute concentrations that fall far below state and federal benchmarks for human health and ecosystems.<sup>3</sup>
- In 2016, the Kauai Department of Water tested four water sources for pesticides and found no concentrations above federal benchmarks of any of the 525 pesticides/herbicides, including chlorpyrifos.<sup>4</sup>

Additionally, the HDOA has the authority and expertise to promulgate additional pesticide regulations to protect the public if it determines that further regulations are warranted. It is our hope that both HDOA and HDOH will be properly engaged to assess the recommendations of the Joint Fact-Finding Committee and prioritize any implementation, based on scientific fact and available credible resources.

Thank you for your consideration of our comments on SB 2568.

Respectfully submitted,

Bennette Misalucha  
Executive Director

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<sup>1</sup> Memorandum to Scott E. Enright, Chairperson, Board of Agriculture from Ken H. Kakesako, Legislative Coordinator regarding Information Requested by School Evacuations Due to Pesticide Drift (March 3, 2015)

<sup>2</sup> Kauai Cancer Cases Report, prepared by the Hawaii Tumor Registry for the Hawaii State Department of Health (April 2013 / revised September 2013)

<sup>3</sup> Letter from Gary Gill, Deputy Director, Environmental Health, Hawaii Department of Health regarding synopsis of statewide scan to identify presence of pesticides in environment (May 20, 2014)

<sup>4</sup> Memo from Kirk Saiki, Manager-Chief Engineer, Department of Water County of Kauai to Councilmember Gary Hooser regarding request for data regarding testing for chlorpyrifos (March 29, 2016)



**Senate Committee on Agriculture and the Environment**

**Hawai'i Center for Food Safety strongly supports: SB2568**

Dear Chair Gabbard, Vice Chair Riviere and members of the committee,

My name is Keani Rawlins-Fernandez and I am with the Hawaii Center for Food Safety (CFS). CFS is a nationwide public interest, sustainable agriculture nonprofit organization whose mission centers on furthering the public's right to know how their food is produced, through labeling and other means. We have over 850,000 farmer and consumer members across the country, including over 10,000 in Hawai'i. On behalf of CFS and our members, I thank you for the opportunity to testify regarding this important bill.

CFS has been dedicated to addressing the human health and environmental impacts of our increased reliance on pesticide use in food production, both in the State of Hawai'i and nationally. We were instrumental in providing legal and communications support in the passage of numerous ordinances relating to pesticide use and disclosure, such as Kaua'i's Bill 2491. Since 2014, HCFS has worked closely with legislators and community members across the State, in all counties, and have played an instrumental role in the passage of Maui's moratorium on GE production until companies submit environmental and public health impact assessments.

I am writing in strong support of SB2568 which appropriates \$3 million in general revenues to implement the findings of the Kauai Joint Fact Finding Study Group. These recommendations are the result of a year and a half in-depth exploration of the literature on the impacts of pesticide exposure. The report's recommendations are intended to guide Hawai'i lawmakers and leaders in their work to advance much-needed reforms. The JFFSG's pivotal report urges the Hawai'i Governor, state lawmakers, and several state agencies to work in collaboration to better protect residents from exposure to harmful chemicals in the air and water, and to improve the monitoring of both pesticides and chronic illnesses associated with pesticide exposure. **The report also calls for the implementation of a consistent, no-spray buffer policy around sensitive areas like schools to protect children from pesticide drift, and mandatory public disclosure of pesticide use by large agribusinesses throughout the state.** We feel these regulatory actions should be the priority of this initiative as only regulation will adequately protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides applied on school grounds, pesticides that drift onto school grounds from neighboring agricultural lands, or from pesticide residues.<sup>i,ii</sup> **It is critical that the state take action to reduce childhood pesticide exposure because toxic exposure to**

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**pesticides during fetal,<sup>iii</sup> neonatal,<sup>iv</sup> and infant life can disrupt critical developmental processes.<sup>v</sup>** Early life exposure has been linked to long-term health effects including cancer,<sup>vi</sup> decreased cognitive function,<sup>vii,viii,ix</sup> behavior problems,<sup>x,xi</sup> birth defects and other adverse birth outcomes,<sup>xii,xiii</sup> and asthma.<sup>xiv</sup>

Specifically, according to a 2012 report by the American Academy of Pediatrics (AAP) entitled “Pesticide Exposure in Children,” children exposed to chronic, low-level restricted use pesticides are at risk of neurodevelopmental disabilities like autism and ADHD<sup>xv,xvi,xvii,xviii</sup>, leukemia<sup>xix,xx,xxi</sup>, and asthma<sup>xxii,xxiii,xxiv</sup>.

Nine of the ten studies examining pesticides and brain cancer that have been conducted since 1998 demonstrated an **increased risk estimate of brain tumors with maternal and/or paternal exposure to pesticides**, though not all achieved statistical significance. One study, which involved 321 cases, demonstrated that **maternal exposure to insecticides before or during pregnancy was associated with a 90% greater risk of astrocytoma** (a type of brain cancer) in the child, as well as a trend to higher risk in exposed fathers<sup>xxv</sup>.

The direct, indirect, and cumulative impacts on public health regarding the long-term intensive commercial agriculture and associated use of pesticides have not been properly or independently evaluated. Existing federal oversight of pesticide exposure do not take into account chronic exposure to local pesticide use. Information pertaining to the intensive use of pesticides in large-scale commercial agriculture within the state is not readily available to the public. Thus, the public is unable to evaluate the full extent of negative impacts accruing to the residents and environment of Hawai‘i.

**The people of Hawai‘i have the right to decide that the risks associated with the use of toxic pesticides in commercial agriculture are unacceptable, and take action to reduce and prevent the potential negative impacts of such use. The state has spent \$200,000 studying this issue in order for it to take informed action. THE TIME FOR THAT ACTION IS NOW.**

Thank you for this opportunity to provide testimony, and I am happy to provide further analysis or respond to any follow-up questions from the Committee.

Respectfully,

Keani Rawlins-Fernandez  
Hawaii Center for Food Safety

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- <sup>i</sup> Alarcon WA et al. 2005. Acute illnesses associated with pesticide exposure at schools. *Journal of the American Medical Association* 294(4): 455-465.
- <sup>ii</sup> Goldman P, Brimmer JK and Ruiz V. 2009. "Pesticides in the Air – Kids at Risk: Petition to EPA to protect children from pesticide drift," Earth Justice and Farmworker Justice, October 2009.
- <sup>iii</sup> Rull RP, Gunier R, Von Behren J, Hertz A, Crouse V, Buffler PA, and Reynolds P. 2009. Residential Proximity to Agricultural Pesticide Applications and Childhood Acute Lymphoblastic Leukemia. *Environmental Research*, 109(7): 891-899.
- <sup>iv</sup> Chevrier C, Limon G, Monfort C, Rouget F, Garlantezec R, Petit C, Durand G, and Cordier A. 2011. Urinary Biomarkers of Prenatal Atrazine Exposure and Adverse Birth Outcomes in the PELAGIE Birth Cohort. *Environmental Health Perspectives*, 119(7): 1034-1041.
- <sup>v</sup> Shelton, JF et al. 2014. Neurodevelopmental Disorders and Prenatal Residential Proximity to Agricultural Pesticides: The CHARGE Study. *Environmental Health Perspective*, 122(10): 1103-1110.
- <sup>vi</sup> Infante-Rivard C, Labuda D, Krajinovic M, Sinnett D. 1999. Risk of childhood leukemia associated with exposure to pesticides and with gene polymorphisms. *Epidemiology* 10(5): 481-487.
- <sup>vii</sup> Rauh V, Arunajadai S, Horton M, et al. 2011. Seven-year neurodevelopmental scores and prenatal exposure to chlorpyrifos, a common agricultural pesticide. *Environ Health Perspect*. 119(8): 1196–1201.
- <sup>viii</sup> Bouchard MF, Chevrier J, Harley KG, et al. 2011. Prenatal exposure to organophosphate pesticides and IQ in 7-year-old children. *Environ Health Perspect*. 119(8): 1189–1195.
- <sup>ix</sup> Engel SM, Wetmur J, Chen J, et al. 2011. Prenatal exposure to organophosphates, paraoxonase 1, and cognitive development in childhood. *Environ Health Perspect*. 119(8): 1182–1188.
- <sup>x</sup> Roberts EM, English PB, Grether JK, Windham GC, Somberg L, and Wolf C. 2007. Maternal Residence near Agricultural Pesticide Applications and Autism Spectrum Disorder among Children in the California Central Valley. *Environmental Health Perspectives*, 115(10): 1482-1489.
- <sup>xi</sup> Bouchard MF, Bellinger DC, Wright RO, Weisskopf MG. 2010. Attention-deficit/hyperactivity disorder and urinary metabolites of organophosphate pesticides. *Pediatrics*. 125(6). Available at: [www.pediatrics.org/cgi/content/full/125/6/e1270](http://www.pediatrics.org/cgi/content/full/125/6/e1270).
- <sup>xii</sup> Garry VF, Harkins ME, Erickson LL, Long-Simpson LK et al. 2002. Birth Defects, Season of Conception, and Sex of Children Born to Pesticide Applicators Living in the Red River Valley of Minnesota, USA. *Environmental Health Perspectives* 110 (Suppl. 3): 441-449.
- <sup>xiii</sup> Garry VF, Harkins ME, Erickson LL, Long-Simpson LK et al. 2002. Birth Defects, Season of Conception, and Sex of Children Born to Pesticide Applicators Living in the Red River Valley of Minnesota, USA. *Environmental Health Perspectives* 110 (Suppl. 3): 441-449.
- <sup>xiv</sup> Salam MT, Li YF, Langholz B, Gilliland FD; Children's Health Study. 2004. Early-life environmental risk factors for asthma: findings from the Children's Health Study. *Environ Health Perspect*. 112(6): 760–765.
- <sup>xv</sup> Rauh VA, Garfinkel R, Perera FP, Andrews HF, Hoepner L, Barr DB, Whitehead R, Tang D, Whyatt R (2006) Impact of prenatal chlorpyrifos exposure on neurodevelopment in the first 3 years of life among inner-city children. *Pediatric* 118(6): e1845-e1859. [www.pediatrics.org/cgi/content/full/118/6/e1845](http://www.pediatrics.org/cgi/content/full/118/6/e1845).
- <sup>xvi</sup> Roberts EM, English PB, Grether JK, Windham GC, Somberg L, Wolf C (2007) Maternal Residence near Agricultural Pesticide Applications and Autism Spectrum Disorder among Children in the California Central Valley. *Environmental Health Perspectives* 115(10): 1482-1489.
- <sup>xvii</sup> Eskenazi B, Marks AR, Bradman A, Harley K, Barr DB, Johnson C, Morga N, Jewell NP(2007) Organophosphate pesticide exposure and neurodevelopment in young Mexican-American children. *Environmental Health Perspectives* 115(5): 792–798.
- <sup>xviii</sup> Bouchard MF, Chevrier J, Harley KG, Kogut K, Vedar M, Calderon N, Trujillo C, Johnson C, Bradman A, Barr DB, Eskenazi B (2011) Prenatal exposure to organophosphate pesticides and IQ in 7-year-old children. *Environmental Health Perspective* 119(8): 1189–1195.
- <sup>xix</sup> Infante-Rivard C, Labuda D, Krajinovic M, Sinnett D (1999) Risk of childhood leukemia associated with exposure to pesticides and with gene polymorphisms. *Epidemiology* 10(5): 481-487.

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<sup>xx</sup> Roberts JR, Karr CJ (2012) Pesticide Exposure in Children. Council on Environmental Health. *Pediatrics* 130(6): e1757-e1763. <http://pediatrics.aappublications.org/content/130/6/e1757.full.html>.

<sup>xxi</sup> Monge P, Wesseling C, Guardado J, Lundberg I, Ahlbom A, Cantor KP, Weiderpass E, Partanen T (2007) Parental occupational exposure to pesticides and the risk of childhood leukemia in Costa Rica. *Scandinavian Journal Work Environmental Health* 33(4): 293-303.

<sup>xxii</sup> Hoppin JA, Umbach DM, London SJ, Alavanja MCR, Sandler DP (2002) Chemical predictors of wheeze among farmer pesticide applicators in the Agricultural Health Study. *American Journal of Respiratory and Critical Care Medicine* 165: 683-689.

<sup>xxiii</sup> Salam MT, Li YF, Langholz B, Gilliland FD, Children's Health Study (2004) Early life environmental risk factors for asthma: findings from the Children's Health Study. *Environmental Health Perspective* 112(6): 760-765.

<sup>xxiv</sup> Strina A, Barreto ML, Cooper PH, Rodrigues LC (2014) Risk factors for non-atopic asthma/wheeze in children and adolescents: a systematic review. *Emerging Themes in Epidemiology* 11(5). <http://www.ete-online.com/content/11/1/5>.

<sup>xxv</sup> van Wijngaarden E, Stewart PA, Olshan AF, Savitz DA, Bunin GR (2003) Parental occupational exposure to pesticides and childhood brain cancer. *American Journal of Epidemiology* 157 (11): 989-997.



## Senate Committee on Agriculture and the Environment

Board of Directors: **Hawaii Alliance for Progressive Action (HAPA) strongly supports:**  
**SB2568**

Gary L. Hooser  
President

Dear Chair Gabbard, Vice Chair Riviere and members of the committee,

Andrea N. Brower  
Ikaika M. Hussey  
Co-Vice Presidents

My name is Anne Frederick and I am the Executive Director for the Hawai'i Alliance for Progressive Action (HAPA). HAPA is a statewide environmental, social and economic justice organization. HAPA emerged out of the community-led movement on Kaua'i to enact greater regulations around pesticide use and disclosure, which led to the passage of Bill 2491. HAPA's fair and sustainable food systems work focuses on protecting Hawai'i's environment and the health of its residents from the potentially harmful pesticide impacts. HAPA engages over 10,000 local residents annually through our work.

Kim Coco Iwamoto  
Treasurer

Bart E. Dame  
Secretary

I am writing in **strong support** of SB2568 which appropriates \$3 million in general revenues to implement the findings of the Kauai Joint Fact Finding group (JFFG). These recommendations are the result of a year and a half in-depth exploration of the literature on the impacts of pesticide exposure. The report's recommendations are intended to guide Hawai'i lawmakers and leaders in their work to advance much-needed reforms.

Paul Achitoff

Malia K. Chun  
Laura Harrelson

The data gathered during the JFFG process indicate that Kauai west side residents suffer from numerous health conditions at higher rates than residents living anywhere else on Kauai.

Kim Coco Iwamoto  
Katie McMillan  
Walter Ritte Jr.

These health conditions/indicators include: Developmental Delay (3 to 8 year olds), ADHD, Easter Seals Enrollment (age 0 to 3), Infant Mortality, Mothers Pre-Existing Health Conditions, Cancer Mortality, Stroke Mortality, Admissions for Bacterial Pneumonia, COPD or Asthma (elderly), Dialysis Patients (per 1,000) and other disabilities.

Karen Shishido  
Leslie Malu Shizue Miki

These are all conditions or health indicators in which the incidence of occurrence by people living on the west side exceed all other Kaua'i communities.

Kekaulike Prosper Tomich

Cade Watanabe

*The Hawai'i Alliance for Progressive Action (HAPA) is a public non-profit organization under Section 501(c)(3) of the Internal Revenue Code. HAPA's mission is to catalyze community empowerment and systemic change towards valuing 'aina (environment) and people ahead of corporate profit.*



It is important to note that due primarily to the presence of 4 large research based agrochemical companies, the annual pesticide use both in terms of quantity and variety is greater on the West Side of Kauai than in any other community in Hawaii.

The JFFG's report urges the Hawai'i Governor, state lawmakers, and several state agencies to work in collaboration to better protect residents from exposure to harmful chemicals in the air and water, and to improve the monitoring of both pesticides and chronic illnesses associated with pesticide exposure. The report also calls for the implementation of a consistent, no-spray buffer policy around sensitive areas like schools to protect children from pesticide drift, and mandatory public disclosure of pesticide use by large agribusinesses throughout the state. We feel these regulatory actions should be the priority of this initiative as only regulation will adequately protect the families who live, work, and play next to these operations

This is why it is critical that the JFFG recommendations actually be funded and implemented by the State. The comprehensive and regular testing of soil, air and water is essential to determining the potential health risk associated with the pesticide use and drift that we know is occurring.

SB2568 is a critical component necessary in fulfilling the objectives and recommendations contained within the State sponsored JFFSG and I strongly encourage this committee to pass this measure and other related measures today.

Mahalo,

Anne Frederick  
Executive Director  
Hawai'i Alliance for Progressive Action

**SB-2568**

Submitted on: 1/31/2018 1:09:40 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| Submitted By | Organization | Testifier Position | Present at Hearing |
|--------------|--------------|--------------------|--------------------|
| Lee Evslin   |              | Support            | No                 |

Comments:

**Testimony In Support of**

**SB2568**

I am Lee A. Evslin, MD. I am a former member of the JFF task force and I am in strong support of SB2568. Environmental testing and the other recommendations of the task force provide a reasonable and responsible way to understand and mitigate the impacts (if any) of pesticide use on the human and wildlife populations near the areas of spraying.

The JFF was formed to examine several issues related to pesticide use by Syngenta, BASF, Dow, DuPont-Pioneer, and Kauai Coffee. One of the tasks was to review available data on the: *“ possible impacts to ..... human health from such usage.”*

We did find increased adverse health conditions on the Westside and some of these conditions have been associated with pesticide use in the evolving medical literature. The problem we faced was insufficient data from environmental testing and available health statistics to separate pesticide usage from socio-economic patterns, genetics, or even random chance as possible causes of adverse health conditions.

This is why our main conclusion was that the only way to better understand the possible role of pesticides on the ill health on the Westside is to properly test the environment-- which means test the dust, water, soil and the air and consider testing urine for pesticide metabolites.

In our study of the international scientific literature we found that pesticides are associated with at least twenty medical conditions (pages 59-60 of the report). We then attempted to determine how many of those twenty conditions had available medical data that we could be used to compare the Westside with the rest of the island and state.

We found data on eleven of those conditions (tables and graphs on pages 60-71). In addition, local health information was often more than five years old or for brief time periods and much of it of questionable quality. We simply reported on what was available.

We used the Department of Education's (DOE) data to look at the percentage of children ages 3-8 with developmental delays or attention deficit disorders (ADHD). We obtained two years of data and it was similar for each of the two years and showed increases in ADHD and developmental delay on the Westside.

If we combine the data for Eleele and Kekaha elementary schools, it shows a 48% increase over schools in the East & North and a 70% increase over schools in the Lihue and Southern districts.

We also looked at Easter Seals data and found that the further west we looked the percentage of children born with special needs appeared to increase. Easter Seals is a program for children with special needs from birth to age three.

In addition, we looked at obesity, diabetes, and severe renal disease requiring dialysis and all three are elevated in the Westside communities. The long-running and respected Agricultural Health Study and other studies show associations between all three of these conditions and pesticides.

What do we conclude from this data? The health data taken by itself cannot answer the question of whether pesticides have led to ill health in the areas near the heaviest spraying. Although the international research on potential pesticide toxicity is of growing concern, it is also important to remember that all the health data above involve only small numbers of people, as the population on the Westside is small, which makes it difficult to prove statistical significance for any condition. Further, all of these conditions could also be caused by other factors, including random chance. In addition school data is for a very brief time period (two years) and the graphing depicts an even shorter time period (1 year).

The conclusion of the health chapter is that testing of both our environment and its inhabitants is the proper scientific way to reduce public uncertainties and to prove or disprove a link between Kauai's use of pesticides and adverse health effects. In addition to environmental testing, proper reporting of health statistics, and complete reporting of pesticides used would also play a role in establishing reasonable buffer zones and in better understanding the health status of the affected communities.

Mahalo

**SB-2568**

Submitted on: 1/30/2018 7:41:28 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>                | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|------------------------------------|---------------------------|---------------------------|
| John R. Gordines    | Hawaii Floriculture & Nursery Ass. | Oppose                    | No                        |

Comments:

**The Hawaii Department of Agriculture is already addressing the recommendations of the JFFG. I am concerned as to what will this group do with 3 million dollars. Its a waste of tax payer money. Large Ag companies are already complying with recommendations.**



**SB-2568**

Submitted on: 1/30/2018 8:43:59 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Richard Furst       |                     | Support                   | No                        |

Comments:

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. I am the parent of a child attending public school on Oahu, and a concerned citizen who supports organic agriculture.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.



**SB-2568**

Submitted on: 1/30/2018 9:44:38 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Koohan Paik         |                     | Support                   | No                        |

Comments:

The people of the neighbor-island counties had already made their voices heard loud and clear that we want pesticides regulated! But then big business thwarted the desires of local communities by appealing at the Ninth Circuit Court in 2016 -- which subsequently ruled that GMOs cannot be regulated at the local level). . Fortunately, the ruling did mandate that the Joint Fact Finding Report be produced, with recommendations that address community concerns on pesticide use and abuse. Let us not neglect this important document, that cost \$100,000 to generate, and support implementation of its recommendations!

**SB-2568**

Submitted on: 1/31/2018 7:34:54 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Francesca Diaz      |                     | Support                   | No                        |

Comments:

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. i am a student attending UH West Oahu, and in our major of Sustainable Community Food systems we learn all about the different aspects of agriculture using hands on experience and through studies.

Pesticide use is last resort use, if at all It is so dangerous and harmful to people, and the earth that it is better to do without, and use many other natural means of control.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

My parents live right in Kunia next to the farms! I love them so much and they are unknowingly exposed to all these chemical. All of our ohana should have a wonderful thriving life without constant chemical exposure.

mahalo



**SB-2568**

Submitted on: 1/30/2018 10:02:53 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Shannon Rudolph     |                     | Support                   | No                        |

Comments:

**STRONGLY SUPPORT!**

**Follow the recommendations of the Kaua'i fact finding group.**

**So VERY tired and unhappy with the the legislature's lack of action, year after year, on the lack of protection for Hawai'i residents and the pesticide issue.**

**For God's sake, DO something this year!**

**~ Mahalo!**

**SB-2568**

Submitted on: 1/30/2018 2:46:08 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier<br/>Position</b> | <b>Present at<br/>Hearing</b> |
|---------------------|---------------------|-------------------------------|-------------------------------|
| Patricia Blair      |                     | Support                       | No                            |

Comments:

**SB-2568**

Submitted on: 1/30/2018 2:48:01 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| laura Ramirez       |                     | Support                   | No                        |

Comments:



**SB-2568**

Submitted on: 1/30/2018 2:49:37 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Mary Lacques        |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/30/2018 3:26:01 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| John Nix            |                     | Support                   | No                        |

Comments:

Kepp improving our system of protection.

**SB-2568**

Submitted on: 1/30/2018 3:33:31 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| La'akea Kaufman     |                     | Support                   | No                        |

Comments:

Aloha all,

I am writing in support of this bill that we pass it and implement the recommendations of the Kaua'i joint fact finding report. Our ecosystems are fragile, our land masses so small, that we cannot afford to continue the reckless practices of uncontrolled pesticide use. Further, if we are to take any measurable steps toward being self-determinant in our food supply, we need to rely on small-scale sustainable agricultural production and not the indisputably dangerous practice of industrial agriculture. I implore you to pass this measure and take positive steps toward ensuring a brighter future for our state.

Sincerely,

La'akea Kaufman

**SB-2568**

Submitted on: 1/30/2018 3:36:50 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Dr.David C Spafford | Research UHM Botany | Support                   | No                        |

## Comments:

As a University plant physiologist, I would like the Senate to know that pesticides are very dangerous in multiple ways. In addition, the public tends to discount these risks in order to save money. You legislators must act in the public interest by doing everything possible to strictly regulate or ban the use of these substances.

**SB-2568**

Submitted on: 1/30/2018 3:38:04 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

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

Comments:

We could use some transparency where toxic chemicals are involved. They spray while wearing full nuclear, biochemical warfare suits and the stuff drifts into schools, hospitals and other gatherings of humanity, unprepared for what is poisoning them. They should have weather stations along the wind line (an old skydiver term) so both the sprayers and those in the target area will know what to expect. Even with buffer zones, wind should be the prime consideration.

**SB-2568**

Submitted on: 1/30/2018 4:33:19 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Greg Puppione       |                     | Support                   | No                        |

Comments:

My name is Greg Puppione and I live in Honolulu. I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure. Mahalo for your time and consideration. Aloha,

Greg Puppione

**SB-2568**

Submitted on: 1/30/2018 5:07:28 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Deborah Mader       | Hawai'i resident    | Support                   | No                        |

Comments:

Aloha,

We support funds being allocated to carry out suggestions by the Kaua'i joint fact finding group. Pesticides are not contained on the area where applied and I'd love to see changes implemented to protect our keiki, our kupuna, and all community members, as well as our water, soil and air.

E mā• lama pono,

Deborah Mader  
Kā•hei, HI



**From:** [Michal Stover](#)  
**To:** [AEN Testimony](#)  
**Subject:** Strong Support for SB 2568 re Kaua'i Joint Fact Finding Report  
**Date:** Tuesday, January 30, 2018 5:06:26 PM

---

Dear Chair Gabbard, Vice Chair Riviere and members of the committee,

As a Kaua'i resident and concerned citizen, I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kaua'i Joint Fact Finding study group.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

Aloha,

Michal Stover  
Kilauea, Kaua'i, Hawai'i

**SB-2568**

Submitted on: 1/30/2018 6:48:16 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Sherilyn Wells      |                     | Support                   | No                        |

Comments:

I strongly **support implementation of the recommendations of the Kaua'i joint fact finding study group's report (JFFR)**. I am a former Board Member of the Washington Toxics Coalition, which was the education of a lifetime, having access to scientists whose research was independently funded, therefore more likely to reflect actual results. I had the chance to meet and study with the author of Our Stolen Future, Dr. Theo Colburn, whose cross-disciplinary work connected the dots of pesticide impact in ways that slivers of information, observed separately, could never have done. Likewise, we must consider cumulative and synergistic effects of chemicals in our environment, as well as the fact that much testing is done in the laboratory, which can never replicate the conditions in a diverse natural environment.

**SB-2568**

Submitted on: 1/30/2018 7:45:46 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| DONNIE BECKER       |                     | Support                   | Yes                       |

Comments:

Makes an appropriation to implement the recommendations of the joint fact finding study group's report (JFFG report) on pesticide use by large agribusinesses on Kauai. The JFFG report's recommendations include such important suggestions as making pesticide disclosure mandatory for agribusiness and protecting schools from pesticides with buffer zones.

**SB-2568**

Submitted on: 1/30/2018 8:34:11 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>            | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|--------------------------------|---------------------------|---------------------------|
| Autumn Ness         | Hawai'i Center for Food Safety | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/30/2018 8:07:28 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b>  | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|----------------------|---------------------|---------------------------|---------------------------|
| Carrie Brennan, N.D. |                     | Support                   | No                        |

Comments:

I support this bill for the health of the people and land of Hawaii.

**SB-2568**

Submitted on: 1/30/2018 9:10:55 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Marion McHenry      |                     | Support                   | No                        |

Comments:

This was a credible study done on Kauai. We need to implement the recommendations by this joint fact finding study now.

**SB-2568**

Submitted on: 1/30/2018 10:01:36 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| L. Osterer          |                     | Support                   | No                        |

Comments:

We need to start the Kauai joint fact finding study group's recommendations as a minimum right away. Thank you.

L. Osterer, Koloa, Hawaii resident and registered voter.



**SB-2568**

Submitted on: 1/30/2018 9:55:42 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| randy wolfshagen    |                     | Support                   | No                        |

Comments:

Please endorse the findings and recommendations from this extensive study.

My family lives w/in 100m of the restricted use pesticide laboratories here on Kauai's west side (Kekaha.) We are directly effected by the unmonitored and improperly applied RUPs, and w/o this legislation or like regulations, we have no options to avoid being contaminated.

Please do the pono thing and support SB2568.

Randy, Mirka, and Pueo Wolfshagen, Kekaha

**SB-2568**

Submitted on: 1/30/2018 11:01:25 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| tia pearson         | self                | Support                   | No                        |

Comments:

Please **implement the recommendations of the Kaua'i joint fact finding study group's report (JFFR)**. The findings include the State taking immediate action to overhaul Hawaii's pesticide regulations, including the establishment of consistent buffer zone and pesticide drift monitoring policies. We need to protect school zones.

**SB-2568**

Submitted on: 1/30/2018 11:49:26 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Eduardo A. Gandolfo |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 3:13:05 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Kat Culina          |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 8:04:24 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Lauren Ampolos      |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 8:17:23 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier<br/>Position</b> | <b>Present at<br/>Hearing</b> |
|---------------------|---------------------|-------------------------------|-------------------------------|
| Lois Crozer         |                     | Support                       | No                            |

Comments:

**SB-2568**

Submitted on: 1/31/2018 8:52:39 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Rob Weltman         |                     | Support                   | No                        |

Comments:

The research has been done, time now to implement the findings of the Kauai investigative group.

**SB-2568**

Submitted on: 1/31/2018 10:05:43 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Arnold Kotler       |                     | Support                   | No                        |

Comments:

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to healthcare professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.





**SB-2568**

Submitted on: 1/31/2018 9:00:25 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Tasia Y             |                     | Support                   | No                        |

Comments:

Aloha kākou-

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. A significant portion of Hawai'i's land is being leased to biochemical companies which use restricted use pesticides on their crops. There needs to be more regulation and transparency surrounding this issue particularly in light of research that points to pesticide exposure being linked to autism, birth defects, behavioral/developmental issues, brain cancers/tumors, etc.

The Kauai Joint Fact Finding study group calls for the establishment of consistent buffer zone and pesticide drift monitoring policies. It is one thing to be exposed to pesticides because one has chosen to use them on their yards but it is another to be involuntarily exposed due to pesticide drift. We must protect our communities' health, particularly those who are most vulnerable: our keiki, pregnant women, and farmworkers handling these pesticides. This is people's health and well-being we're talking about. We cannot stay idle for another year.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

**SB-2568**

Submitted on: 1/31/2018 10:25:46 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| William Navran      |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 11:21:02 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b>  | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|----------------------|---------------------|---------------------------|---------------------------|
| janice palma-glennie |                     | Support                   | No                        |

Comments:

Hearing for SB 2568

Thursday, Feb 1st, 2018

2:30PM, Capitol Room 016

Aloha,

As a person who has earned my living in Kona growing and selling agricultural products, I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

**SB-2568**

Submitted on: 1/31/2018 11:47:27 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Lory Ono            |                     | Support                   | No                        |

Comments:

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. I am very concerned with the use of pesticides and their adverse effects on humans, animals and the environment. Pesticide use should, at the very least, be very closely monitored, if not discontinued, in my opinion.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

Seri Niimi-Burch  
PO Box 898  
Honoka'a, HI 96727

Senator Gabbard, Chair  
Senator Riviere, Vice Chair  
Hawai'i Senate Committee on Agriculture and the Environment  
RE: SB2568 - Relating to Pesticides

January 31st, 2018

Dear Chair Gabbard, Vice Chair Riviere and members of the committee,

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. As a Kaua'i native now living on Hawai'i Island, an educator, and an aunty to two nieces and a nephew under the age of 10 who are growing up and attending school on Kaua'i, I am concerned that the State of Hawai'i is currently not adequately protecting it's people or land from the harmful effects of toxic pesticide use. This bill is a step in the right direction toward a safer Hawai'i for our keiki and our communities.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals. Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

Sincerely,

Seri Niimi-Burch

B.S. Chemistry and Environmental Studies, Boston College 2014



**SB-2568**

Submitted on: 1/31/2018 12:39:29 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>  | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|----------------------|---------------------------|---------------------------|
| Gary Hooser         | Kauai County Council | Support                   | Yes                       |

Comments:

SB 2568 RELATING TO PESTICIDES. AEN 016 Feb 1, 2018 2:30 PM

Testimony in Support of SB 2568

This testimony is in strong support of funding the Joint Fact Finding Report recommendations. It has been many years since concerns were first raised about the health and environmental impacts of pesticide use by the large agrochemical companies on Kauai's west side. To date there is still insufficient data and no comprehensive long term testing that is needed to determine the degree of impact this industry has on the people and local environment.

Please support this measure and properly fund the recommendations.

Gary Hooser

**SB-2568**

Submitted on: 1/31/2018 1:27:25 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| barbara childers    |                     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 1:35:50 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>             | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------------------|---------------------------|---------------------------|
| Dr. Jana Bogs       | Beyond Organic Consulting, Inc. | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 1:49:23 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| denise woods        |                     | Support                   | No                        |

Comments:

Please support this and any measure aimed at regulation of pesticides on Hawaii. Thank You.

Denise Woods, RN

**SB-2568**

Submitted on: 1/31/2018 3:35:54 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| Submitted By   | Organization | Testifier Position | Present at Hearing |
|----------------|--------------|--------------------|--------------------|
| A Kathleen Lee |              | Support            | No                 |

Comments:

**Mahalo Honorable Senators for paying attention to this bill,. vital to the health of our aohana on Kauai and affeting the future of our entire State.**

**The implementation of the recommendations of the Kaua'i joint fact finding study group's report (JFFR) is vital** for our precious people and children on this Isle that is supposed to be paradise, but has become anything but. The findings include the State taking immediate action to overhaul Hawai'i's pesticide regulations, including the establishment of consistent buffer zone and pesticide drift monitoring policies. We need this more than my mere words can convey. I wish you could feel the energies emitting from my heart right now...they would sweep you up to an awareness of how important this bill is.

Mahalo for all you can do,

April Lee

Hawi, HI

**SB-2568**

Submitted on: 1/31/2018 3:55:24 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Robert Petricci     |                     | Support                   | No                        |

Comments:

I support SB2568, and am asking you to do the same.

Mahalo

Robert Petricci

**SB-2568**

Submitted on: 1/31/2018 7:16:05 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| Submitted By | Organization | Testifier Position | Present at Hearing |
|--------------|--------------|--------------------|--------------------|
| Mary True    |              | Support            | No                 |

Comments:

The JFF report urges Hawaii to protect residents from pesticide exposure. The report also calls for buffer zones around sensitive areas and around schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be a priority of this initiative to sufficiently protect the families who live, work and play next door to these operations. The public has a right to know and it is the state's responsibility to protect us from entities which put profit over safety.

**SB-2568**

Submitted on: 1/31/2018 7:29:38 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Cory Harden         |                     | Support                   | No                        |

Comments:

Aloha legislators,

Please support SB 2568 for \$3 million to implement the findings of the Kauai Joint Fact Finding study group.

As you know, the report calls for improved monitoring of pesticides and of illnesses related to pesticide exposure; buffer zones around sensitive areas like schools; and mandatory disclosure of pesticide use by large agribusinesses throughout the state.

Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Infants exposed in the womb are at risk for long-term health impacts.

Doctors and residents should not be kept in the dark about what is being sprayed and in what quantity.

Agribusinesses should welcome this opportunity to prove how safe their pesticides are!

mahalo,

Cory Harden, Hilo



**SB-2568**

Submitted on: 1/31/2018 7:47:52 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>       | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------------|---------------------------|---------------------------|
| Dale Sandlin        | Hawaii Cattlemens Council | Oppose                    | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 7:56:28 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Sylvia Dolena       |                     | Support                   | No                        |

Comments:

Valid recommendations must be implemented!

Sylvia Dolena, Pele Lani Farm LLC

**SB-2568**

Submitted on: 1/31/2018 8:21:08 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| elizabeth hansen    |                     | Support                   | No                        |

Comments:

Aloha Dear Senators:

We must protect the Aina- we must put our money into important issues - like the environment. Please pass this bill. Mahalo

Elizabeth Hansen, Hakalau HI 96710

**SB-2568**

Submitted on: 1/31/2018 8:22:25 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Jeri Di Pietro      | GMO Free Kaua'i     | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 8:26:04 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Jade Moss           |                     | Support                   | No                        |

Comments:

Aloha,

The Kauai JFF report is a well rounded document that should be used as a jumping off point to begin the control of RUPs. The recommendations put fourth deserve to be state wide. It's quite astonishing that agro chemical companies can literally do anything they want. This must change and implementing recommendations from this document is a start.

Thank you for supporting sb2568.

Jade

Kalaheo

**SB-2568**

Submitted on: 1/31/2018 8:26:16 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| John NAYLOR         | N/A                 | Support                   | No                        |

Comments:

**SB-2568**

Submitted on: 1/31/2018 10:18:45 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Fern Rosenstiel     | 'Ohana o Kaua'i     | Support                   | No                        |

Comments:

Please pass this bill and help provide the state with the resources that it needs to implement the very basic and reasonable recommendations outlined in the JFFG report. For way to many years now these communities have been pleading for better protections. The state has the ability to move forward with these recommendations and finally start to implement them and provide better protections for our communities, better data collection and better monitoring of the largest users of restricted use pesticides.

The time is now. Please support this and the health and development of our keiki and the next generation. Mahalo!

**SB-2568**

Submitted on: 1/31/2018 10:20:31 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b>     | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|-------------------------|---------------------------|---------------------------|
| Stephen Paselk      | Citizens4AHealthierMaui | Support                   | No                        |

Comments:

I support SB2568 to provide funding to implement the Kauai Joint Fact Finding recommendations.

The public has a right to health and we want disclosure as to what we are exposed to, we want drift laws to be enforced, and we want buffer zones around communities, and we want environmental testing of soil and water. Court rulings have decided the state has the authority and obligation to protect public health and the environment from pesticide exposure and we want the state to do its job. The hundreds of GMO experimental fields many of which are pesticide tolerance experiments need to be closely monitored. The State needs to establish a

pesticide review process to monitor the safety of the most dangerous pesticides such as Chloripyrifos, Atrazine, 24-D ametryn, and Dicamba.



**SB-2568**

Submitted on: 1/31/2018 10:45:27 PM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Joy Fisher          |                     | Support                   | No                        |

Comments:

I strongly support this bill and urge you to pass it.

Joy Fisher

**SB-2568**

Submitted on: 2/1/2018 7:08:22 AM

Testimony for AEN on 2/1/2018 2:30:00 PM

| <b>Submitted By</b> | <b>Organization</b> | <b>Testifier Position</b> | <b>Present at Hearing</b> |
|---------------------|---------------------|---------------------------|---------------------------|
| Nathan Yuen         |                     | Support                   | No                        |

Comments:

I strongly support SB2568 which requires implementation of the recommendations of the Kauai joint fact finding study groups report.

Hawaii is ground zero for the industrial use of pesticides in agricultural fields many of which are close to communities where people live. We need to be mindful of the possibility of birth defects, particularly developmental injuries to the fetus from chronic low level pesticide exposure.

We need a plan to allow proper and appropriate pesticide use while protecting our residents and notifying communities of contamination when accidents and/or mishaps occur.

Thank you for this opportunity to testify on this matter. I strongly support SB2568 and urge you to pass this bill out of committee.

Testimony SB2568

Hearing for SB 2568

Thursday, Feb 1<sup>st</sup>, 2018

2:30PM, Capitol Room 016

I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. I am a marine biologist and senior manager, now retired after 30+ years with the British Columbia government, and a winter resident of Kauai for the past 12 years. I care deeply about the use and abuse of synthetic pesticides and their negative effects on soil health and fertility, food nutrition, the health of farm workers and those living in the air- and watersheds where pesticides are used, and the poisoning of our drinking water and both fresh- and marine waters and the creatures that live in them.

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted used pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

The JFF report also concluded that the public health impacts regarding long-term exposure to pesticides associated with large scale commercial agriculture have not been properly or independently studied. This is because information pertaining to the use of these pesticides is not available to the public or to health care professionals.

Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

Michael Coon, M.Sc., B.Sc.

**From:** [Pake Salmon](#)  
**To:** [AEN Testimony](#)  
**Subject:** SB 2568  
**Date:** Wednesday, January 31, 2018 11:17:39 AM

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I am writing in strong support of SB 2568 which appropriates \$3 million to implement the findings of the Kauai Joint Fact Finding study group. (Share who you are and why this matters to you)

As you know, the JFF report urges the State of Hawai'i to protect residents from pesticide exposure, and to improve the monitoring of pesticides and the illnesses related to pesticide exposure. The report also calls for buffer zones around sensitive areas like schools as well as mandatory disclosure of pesticide use by large agribusinesses throughout the state. I believe that these regulatory actions should be the priority of this initiative, to sufficiently protect the families who live, work, and play next to these operations.

Children can be exposed to pesticides sprayed on school grounds and those that drift from neighboring agricultural lands. Children exposed to restricted use pesticides are at a risk of disabilities like autism and ADHD, leukemia, and asthma. Toxic exposure to pesticides from while in the womb to early years has been linked to long-term health effects including cancer, behavior problems, birth defects and asthma. Studies suggest an increased risk of brain tumors and brain cancer. Buffer zones around sensitive areas such as schools and hospitals makes sense as a place to begin protecting the public.

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Kept in the dark, doctors and scientists have been unable to evaluate the full extent of negative impacts occurring to both residents and to the environment. Disclosure of what is being sprayed and in what quantity is required in order to analyze the impacts.

It is time for the State to take action to reduce and prevent the potential negative impacts of such use. The Dept. of Agriculture has been woefully underfunded in this area and this appropriation will allow this action to finally take place.

I urge you to support SB 2568. Mahalo for considering my testimony in strong support of this measure.

Mahalo,

Pake Salmon

Chaunnel "Pake" Salmon

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

Phone: 808-258-7253