

Hawaii Center for Food Safety
Molokai Public Presentation: Pesticides in Paradise
Public Submittals

Below are reports from recent years prepared by Hawaii State and Maui County government departments and regulated entities, to address local health and safety concerns about pesticides: pesticide drift near schools, water contamination, air contamination and alleged increases in cancer rates. Most of the reports are short, easy to digest or have summaries.

➤ ***"Information Requested Regarding School Evacuations Due to Pesticide Drift," Ken Kakesako, Hawaii Department of Agriculture, March 2015.***

PDF attached.

An official memorandum prepared by the Hawaii Department of Agriculture (HDOA) in response to State Senator Gil Riviere's request for the number of school evacuations statewide that have occurred due to pesticide drift. Of the 16 reported incidents, 15 were not related to agricultural pesticide use — including the events at Waimea Canyon School. The one incident at Kahuku High & Intermediate Schools that involved a commercial turf grass farm applicator is ag related, but did not involve a seed company.

➤ ***"Maui County Water Systems Test Results Relating To Glyphosate," David Taylor, Department of Water Supply, County of Maui, July 2014.***

PDF attached.

An official memorandum prepared by the Maui County Department of Water Supply pertaining to glyphosate testing of Maui County water systems. The memorandum states that regulatory requirements mandate the testing of each water source for regulated contaminants. Of the 45 County water systems tested, 0 detected any glyphosate. The summary states, *"all samples registered "Non Detect" meaning that no glyphosate was detected in any of our water samples."*

➤ ***"2014 Annual Water-Quality Report," Molokai Public Utilities, 2014***

PDF attached.

The EPA's Safe Drinking Water Act requires all utilities issue an annual "Consumer Confidence Report" to its customers and provide results of its water-quality analyses. The report indicates that Molokai Public Utilities water treatment plant product water has met all DOH and EPA regulations, and the report lists all detected contaminants even in minute traces. No pesticides were detected.

(Water supplied by Molokai Public Utilities is a blended source from Well #17 through the Molokai Irrigation System surface water system, and the Molokai Ranch surface water mountain system. Both are blended at Puu Nana, then treated and gravity fed to the Kaluakoi water system).

➤ ***"Kualapuu School News," August 2014***

PDF attached.

http://kualapuuschool.weebly.com/uploads/2/2/8/7/22878020/kualapuu_school_newsletter_web_-_august_2014_final.pdf

Kualapuu School's principal and school board proactively met with Monsanto Molokai after hearing concerns regarding new activity in Monsanto's fields across the street. The result of the meeting was posted in their school newsletter: an explanation for the recent field activity and Monsanto's commitment to Kualapuu school; their statement that they have not had any concerns about pesticide use from the neighboring community; the school's own responsible use of pesticides according to the label; and the unanimous agreement that all parties want to keep our keiki safe.

➤ ***"County of Maui, Hawaii Memorandum of Understanding between Monsanto Company and The Mayor's Office, County of Maui", County of Maui, November 2013***

Partial PDF attached.

<http://www.co.maui.hi.us/index.aspx?NID=1966>

Mayor Alan Arakawa signed a Memorandum of Understanding (MOU) with Monsanto on November 8, 2013, obtaining assurances from the company that they will engage in safe practices involving restricted-use pesticides (RUPs). The MOU is intended to advance public knowledge and foster public dialogue regarding agriculture and includes voluntary annual RUP reporting. These reports list Monsanto's annual RUP use in Maui County: product name and active ingredient; treated acres and product used per acre; as well as list common household products used that include the same active ingredients.

➤ ***Hawaii Department of Agriculture, 2013.***

PDF attached.

<http://hdoa.hawaii.gov/?s=restricted%20use%20pesticides&type=network&searchblogs=1,2,3,4,7,11,16>

Of the Restricted Use Pesticides sold in Hawaii, agricultural users combined – including the seed companies – accounted for only 33% percent of total sales. The remaining 67% are for non-agricultural use, such as homes, businesses, office buildings, hotels and more. Monsanto uses less than 1% of the total.

- **"Statewide Pesticide Survey,"** Hawaii Department of Health, Hazard Evaluation and Emergency Response Office, May 2014.

<http://eha-web.doh.hawaii.gov/eha-cma/Leaders/HEER/statewide-pesticide-survey>

In partnership with HDOA and the United States Geological Survey (USGS), the Hawaii Department of Health (HDOH) measured pesticides in surface water and sediment at multiple locations in Hawaii. In the report cover letter, HDOH concludes that minute concentrations of pesticides were found in the samples taken at well below state and federal levels for human health and the environment, but that the highest number of different pesticides were found in urban areas on Oahu. The link takes you to HDOH's website with links to the report and maps of the testing sites.

- **"Report Prepared by the Hawaii Tumor Registry for the Hawaii State Department of Health: Kauai Cancer Cases,"** Hawaii Department of Health and University of Hawaii Cancer Center, Hawaii Tumor Registry, April 2013.

<http://health.hawaii.gov/wp-content/uploads/2013/09/Kauai-Cancer-Cases-April-2013.pdf>

An analysis undertaken by HDOH and the University of Hawaii to investigate community suspicions of increased cancer rates on Kauai. The report results showed no evidence of higher cancer rates on Kauai in comparison to the rest of the state.

- **"Final Project Report for Kauai Air Sampling Study,"** University of Hawaii, Department of Molecular Biosciences and Engineering, March 2013.

<http://hdoa.hawaii.gov/wp-content/uploads/2013/01/Waimea-Canyon-Air-Study.pdf>

An ambient air sample and analysis for pesticide residues and chemical odors in and around Waimea, Kauai, funded by HDOA and the County of Kauai, undertaken in response to community concerns about pesticide exposure. Natural chemicals found in the stinkweed plant were found in the air at Kauai schools sampled including the Waimea Canyon Middle School. Traces amounts of pesticides were also detected, all were well below health exposure limits.

DAVID Y. IGE
Governor

SHAN S. TSUTSUI
Lt. Governor



State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 South King Street
Honolulu, Hawaii 96814-2512
Phone: (808) 973-9600 FAX: (808) 973-9613

SCOTT E. ENRIGHT
Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER
Deputy to the Chairperson

March 3, 2015

MEMORANDUM

TO: Scott E. Enright
Chairperson, Board of Agriculture

FROM: Ken H. Kakesako *KHK*
Legislative Coordinator

SUBJECT: Information Requested Regarding School Evacuations Due to Pesticide Drift

In response to inquiries made by Senator Gil Riviere through email on February 14, 2015, the following information was collated by the Pesticide Branch staff to address the question of the number of school evacuations that have occurred as a result of pesticide drift.

- 03-01-06 Waiau Elementary School: 6 children and 2 faculty members transported to hospital for observation. Homeowner applicator – Malathion product
- 04-13-06 Aina Haina Elementary School: 50 students taken to hospital for evaluation. Homeowner applicator – Malathion product
- 11-14-06 Waimea Canyon School: 14 students/teachers claimed to suffer from health effects. Eight were sent home. Fire and police and collections manager from the National Tropical Botanical Garden agreed the odor was from blooming stinkweed. Glyphosate was applied during the day. Swab samples did not show glyphosate or Aminomethyl phosphonic acid (AMPA) in samples.
- 05-04-07 Kahuku High & Intermediate Schools: 4 students and 1 teacher sicken. Commercial turf grass farm applicator – Orthene product
- 01-25-08 Waimea Canyon School odor complaint: Ten students went to the ER and six went directly home. A diesel odor was supposedly detected by the students. Syngenta representative confirmed that stinkweed was plowed under and remove by hand and there were no pesticide applications made to fields adjacent to WCS on 1-25-08.
- 02-16-08 St. Joseph School (Waipahu, Oahu). 29 students, 2 teachers sicken. School custodian applicator - Malathion product



- 03-06-08 Highlands Intermediate School: 17 students and staff member complained of reaction to pesticide odor. Homeowner applicator – Malathion product
- 09-28-10 Highlands Intermediate School (Pearl City, Oahu) Treated 15 students, 2 students hospitalized. Homeowner applicator – Malathion product
- 11-25-13 Kaimiloa and Pohakea Elementary School (Ewa Beach): 6 – 7 students, 1 staff member sicken. Homeowner applicator applied Malathion like product. Product given to him by neighbor supposedly an herbicide in unmarked container.
- 12-04-13 Kamiloiki Elementary School (Hawaii Kai): School evacuated 450 students, staff and faculty. 2 students taken to hospital for observation nausea and dry cough. Homeowner applicator – Malathion product
- 12-18-13 Wilcox Elementary School / Boys & Girls Club (Kauai) a dozen students were dizzy and nauseous. : Homeowner applicator – Malathion product
- 03-13-14 Kamaaina Kids at Wilcox Elementary School (Kauai) (A+after-school program); Homeowner applicator – Malathion product
- 04-03-14 Kahaluu Elementary School: Mulch pile (There were some violations by the City & County of Honolulu, Parks & Recreation that were unrelated to the odor.)
- 09-18-14 Honokaa High & Intermediate School: Homeowner applicator (Malathion, Diazinon & volck oil
- 10-27-14 Kapolei Elementary: Homeowner applicator (Malathion used but no particle drift demonstrated)
- 12-17-14 Waiakea Intermediate School: Unable to determine source of odor; Hazmat responded and could not locate odor source.

Should you have any further questions or need for clarification, please feel free to contact Tom Matsuda, Pesticide Branch Manager, at 808-973-9402.

ALAN M. ARAKAWA
Mayor



DAVID TAYLOR, P.E.
Director

PAUL J. MEYER
Deputy Director

DEPARTMENT OF WATER SUPPLY

COUNTY OF MAUI

200 SOUTH HIGH STREET

WAILUKU, MAUI, HAWAII 96793-2155

www.mauiwater.org

July 16, 2014

Mr. Dan Clegg, Hawaii Land & Resource Manager
Monsanto Company
2111 Piilani Highway
Kihei, Hawaii 96753

Dear Mr. Clegg:

**SUBJECT: MAUI COUNTY WATER SYSTEMS TEST RESULTS RELATING TO
GLYPHOSATE**

The Department of Water Supply is in receipt of your letter dated July 11, 2014, requesting a copy of the test results data specifically as it relates to glyphosate testing of Maui County water systems. Attached please find a summary of our most recent glyphosate testing. Regulatory requirements mandate that we test each water source for regulated contaminants, such as glyphosate. Regulatory standards allow up to 700 ppb of glyphosate in drinking water. The testing methodology we utilize can detect glyphosate at concentrations as low as 6 ppb. As you can see from the attached summary, all samples registered "Non Detect" meaning that no glyphosate was detected in any of our water samples.

Should you have any questions, please contact me at (808) 270-7816.

Sincerely,

A handwritten signature in black ink, appearing to be "DT", is written over a horizontal line.

DAVID TAYLOR, P.E.
Director of Water Supply

Attachments

xc: Paul J. Meyer, Deputy Director
DT:atn
P:\DOCS\2014\071514_DanClegg(Monsanto).doc

"By Water All Things Find Life"



Location	Sample ID	Folder	Project	Method	Analyte	Sample Date	Final	Units	MRL
Iao Tunnel UV, after UV	HI0000212-021-TP004	470322	COMPLIANCE	EPA 547	Glyphosate	2/24/2014	ND	ug/L	6
Iao Tunnel UV, after UV	HI0000212-021-TP004	479726	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Kepaniwai Well, Hydrant #90	HI0000212-024-TP005	470760	COMPLIANCE	EPA 547	Glyphosate	2/25/2014	ND	ug/L	6
Kepaniwai Well, Hydrant #90	HI0000212-024-TP005	479730	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Mokuhau Tank	HI0000212-025-TP001	473929	COMPLIANCE	EPA 547	Glyphosate	3/19/2014	ND	ug/L	6
Mokuhau Tank	HI0000212-025-TP001	479729	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Waihee Tank	HI0000212-026-TP010	473931	COMPLIANCE	EPA 547	Glyphosate	3/19/2014	ND	ug/L	6
Waihee Tank	HI0000212-026-TP010	479835	COMPLIANCE	EPA 547	Glyphosate	5/1/2014	ND	ug/L	6
Waiehu Heights Tank	HI0000212-027-TP006	474852	COMPLIANCE	EPA 547	Glyphosate	3/27/2014	ND	ug/L	6
Waiehu Heights Tank	HI0000212-027-TP006	479770	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
North Waihee Tank	HI0000212-028-TP012	473928	COMPLIANCE	EPA 547	Glyphosate	3/19/2014	ND	ug/L	6
North Waihee Tank	HI0000212-028-TP012	479725	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Wailuku Ag Shaft 33, transmission line after disinfection	HI0000212-029-TP060	470316	COMPLIANCE	EPA 547	Glyphosate	2/24/2014	ND	ug/L	6
Wailuku Ag Shaft 33, transmission line after disinfection	HI0000212-029-TP060	483108	COMPLIANCE	EPA 547	Glyphosate	5/21/2014	ND	ug/L	6
Iao WTP, after filtration & disinfection	HI0000212-030-TP011	470701	COMPLIANCE	EPA 547	Glyphosate	2/25/2014	ND	ug/L	6
Iao WTP, after filtration & disinfection	HI0000212-030-TP011	479727	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Waiale Tank Inlet (from Maui Lani Wells)	HI0000212-034-TP061	470376	COMPLIANCE	EPA 547	Glyphosate	2/24/2014	ND	ug/L	6
Waiale Tank Inlet (from Maui Lani Wells)	HI0000212-034-TP061	479728	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Iao Well, after disinfection, before Iao Tank	HI0000212-036-TP014	470219	COMPLIANCE	EPA 547	Glyphosate	2/21/2014	ND	ug/L	6
Iao Well, after disinfection, before Iao Tank	HI0000212-036-TP014	479724	COMPLIANCE	EPA 547	Glyphosate	4/30/2014	ND	ug/L	6
Waikapu Well, after disinfection, before Waikapu Tank	HI0000212-038-TP015	470390	COMPLIANCE	EPA 547	Glyphosate	2/24/2014	ND	ug/L	6
Waikapu Well, after disinfection, before Waikapu Tank	HI0000212-038-TP015	479826	COMPLIANCE	EPA 547	Glyphosate	5/1/2014	ND	ug/L	6
Kamole Weir Vault C	HI0000213-002-TP002	473525	COMPLIANCE	EPA 547	Glyphosate	3/17/2014	ND	ug/L	6
Kamole Weir Vault C	HI0000213-002-TP002	479615	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Haiku Tank	HI0000213-010-TP006	473785	COMPLIANCE	EPA 547	Glyphosate	3/18/2014	ND	ug/L	6
Haiku Tank	HI0000213-010-TP006	479581	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Kaupakalua Tank	HI0000213-011-TP004	473526	COMPLIANCE	EPA 547	Glyphosate	3/17/2014	ND	ug/L	6
Kaupakalua Tank	HI0000213-011-TP004	479603	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Pookela Tank	HI0000213-015-TP011	473522	COMPLIANCE	EPA 547	Glyphosate	3/17/2014	ND	ug/L	6
Pookela Tank	HI0000213-015-TP011	479836	COMPLIANCE	EPA 547	Glyphosate	5/1/2014	ND	ug/L	6
Lahaina Treatment Plant, Vault C	HI0000214-025-TP060	476687	COMPLIANCE	EPA 547	Glyphosate	4/4/2014	ND	ug/L	6
Kanaha Tank	HI0000214-029-TP005	475948	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6
Waipuka Tank	HI0000214-030-TP002	477002	COMPLIANCE	EPA 547	Glyphosate	4/11/2014	ND	ug/L	6
L Honopillani Hwy Hyd 219	HI0000214-031-TP008	476009	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6
Upper Kula Treatment Plant	HI0000215-001-TP003	473765	COMPLIANCE	EPA 547	Glyphosate	3/18/2014	ND	ug/L	6
Upper Kula Treatment Plant	HI0000215-001-TP003	479580	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Wakiu Tank	HI0000217-006-TP001	475943	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6

Location	Sample ID	Folder	Project	Method	Analyte	Sample Date	Final	Units	MRL
Hamoia Tank	HI0000217-007-TP003	475944	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6
Keanae Hosebib @ Cntrl Bldg after booster	HI0000219-004-TP001	476686	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6
Nahiku Tank	HI0000220-001-TP001	475942	COMPLIANCE	EPA 547	Glyphosate	4/3/2014	ND	ug/L	6
Ualapue Tank near gate	HI0000233-005-TP001	479571	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Kualapuu Mauka Tank Outlet	HI0000234-007-TP002	479607	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Kawela 50 ft from well site fence	HI0000234-009-TP001	479573	COMPLIANCE	EPA 547	Glyphosate	4/29/2014	ND	ug/L	6
Lower Kula Treatment Plant	HI0000247-008-TP001	473784	COMPLIANCE	EPA 547	Glyphosate	3/18/2014	ND	ug/L	6
Lower Kula Treatment Plant	HI0000247-008-TP001	479849	COMPLIANCE	EPA 547	Glyphosate	5/1/2014	ND	ug/L	6

Kaluakoi
Kaluakoi, Molokai, Hawaii
2014 Annual Water-Quality Report

The Safe Drinking water Act (SDWA) requires that utilities issue an annual "Consumer Confidence Report" to its customers in addition to other notices that may be required by law. This report gives you information where the water comes from, what it contains, and any risks our water testing and treatment are designed to prevent. Molokai Public Utilities (MPU) is committed to providing you with the safest and most reliable water supply. For more information call MPU at (808)552-2394.

The bottom line: Is the water safe to drink? The answer is Yes.

Call us for information about the water system and services provided. We are here to serve you. You may e-mail our Utility Manager at rkamakana@molokairanch.com.

Overview

Our mission is to provide safe and sufficient water for our customers needs. The water quality report is a reflection of the hard work provided by MPU. We have upgraded our treatment facility to comply with State and Federal EPA standards.

Water Source

As of September 2005 the water provided to you is supplied by a blended source. One source is from Well #17, through the Molokai Irrigation System surface water system. The second source is from the Molokai Ranch surface water mountain system. Both sources are blended at Puu Nana then treated at the new 1.5 mgd water treatment plant. After treatment at Puu Nana, the water flows by gravity to the Maunaloa 3 mg reservoir then continues by gravity to the Kaluakoi water system.

As of September 2005, MPU has met all standards of the Surface Water Treatment Rule (SWTR) treatment technique requirements. Improvements of the system and treatment has been finalized and approved by the State Department Health on September 14, 2005.

For the year 2008, the Kaluakoi Water System is in compliance with Trihalomethane (THM), and Haoacetic Acids (HAA5) Maximum Contaminant Level (MCL). Following this upgrade, we are now operating within the compliance levels.

A Source Water Assesssment Plan (SWAP) has been completed. If you want to view any of the documents please feel free to call Waiola O Molokai Inc. at 552-2394.

An Explanation of the Water-Quality Data Table

The table shows the results of our water-quality analyses. Every regulated contaminant that we detected in the water, even in minute traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health, the amount detected, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement. Definitions of MCL and MCLG are important. Detected unregulated contaminants for which monitoring is required will also be listed in this report.

Definitions

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Key To Table

AL	Action Level
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
ppm	parts per million, or milligrams per liter (mg/l)
ppb	parts per billion, or micrograms per liter (µg/l)

NA

Not Applicable

Water Quality Data Table

Contaminant Level	Date Collected	Unit	MCL	MCL G	Range	Average	Major Sources	Violation
Disinfection By-Products								
Total Trihalomethanes (TTHMs)	2014	ppb	80	NA	52.0-74.9	61.3	Byproduct of drinking water chlorination	No
Haloacetic Acid (HAA5)	2014	ppb	60	NA	2.7-22.6	11.6	Byproduct of drinking water chlorination	No

Water-Quality Table Footnotes

Detected Level Description: The surface water treatment plant product water has met all DOH and EPA regulations, but additional monitoring and control of TTHMs is required.

The 90th Percentile Copper value of 0.11 ppm from 2012 and the Action Level (AL) instead of MCL.
The 90th Percentile Lead value of ND from 2012 and the Action Level (AL) instead of MCL.

Next sampling is scheduled for June 2015.

Unregulated contaminants are monitored by the DOH to track potential contamination of our resources. These do not have an MCL established by the EPA.

Explanation of Violations:

All systems are now on a annual monitoring basis that will require sampling the summer of 2015.

Required Additional Health Information

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can, also, come from gas stations, urban storm water runoff and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Lead- specific health information.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Molokai Public Utilities is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>."

National Primary Drinking Water Regulation Compliance

This report was prepared by Molokai Public Utilities, 1-808-552-2394. We'll be happy to answer any questions about service and our water quality. For more information, call Molokai Public Utilities at 808-552-2394. Water Quality Data for community water systems throughout the United States is available at www.waterdata.com.



10th
Anniversary
 Charter Celebration
 in 2014-2015

EVENTS

Labor Day – No School
 Monday, September 1st

Ohana Fun Fair 8am-2pm
 Saturday, September 6th

Early Release Day
 School Done at 12:30pm
 Wednesday, September 10th

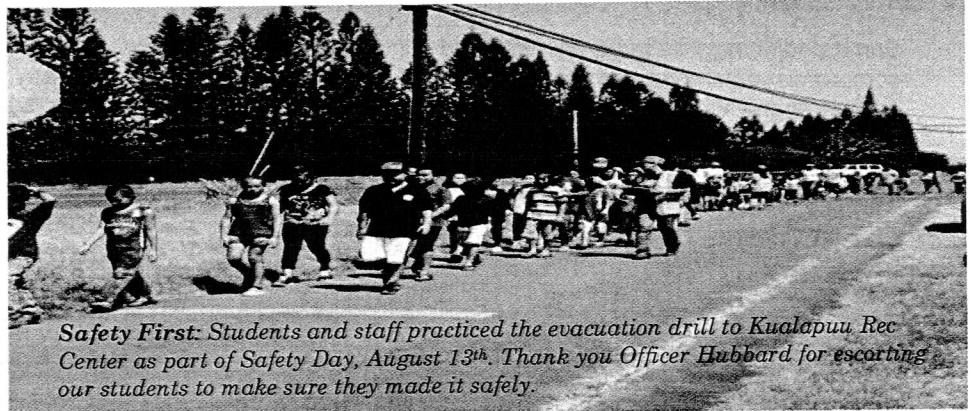
PSO Movie Night
 Friday, September 12th

Parent Conference Week
 September 22nd to Sept. 26th
 School Done at 12:30pm

Picture Taking Days
 September 25th and 26th

**Student Recognition
 Assembly**
 Friday, September 26th

Fall Break – No School
 Monday September 29th to
 Friday, October 10th



Safety First: Students and staff practiced the evacuation drill to Kualapuu Rec Center as part of Safety Day, August 13th. Thank you Officer Hubbard for escorting our students to make sure they made it safely.

PRINCIPAL'S MESSAGE

Welcome to School Year 2014-2015! This school year is a special year as we invite you to join us in our 10th Year of our conversion to becoming a Charter School. We have grown and expanded in many ways with additional funding and with additional programs for your children—we are especially proud of starting a FREE Pre-Kindergarten program and expanding the school day until 2:45pm. We have been able to continually provide visual arts, PE, library, Ike Hawaii, and a Hawaiian Language Immersion Program. Also, we are proud to be Molokai's only accredited elementary school. It's been a rewarding journey to stretch the boundaries of traditional education. However, as with any journey, Kualapu'u has had its share of challenges to learn from. Our current challenge is making Kualapu'u become a financially sustainable public school that offers a top-notch education above and beyond traditional public schools. As such, our school is increasing our grant writing and fundraising efforts this year. This school year also brings some changes to our school schedule:

- Two full recess breaks, with each grade cluster with an area to play each other. No longer are grades mixed with upper and lower grades. Also, because the recesses are at different times of the day, there is no recess after lunch. *Since starting this change, there are been almost no behavior incidents during any recess times. Health room accidents from the playground are also lower than normal. Finally, the students are taking their time to eat their lunches and not rushing to go to play.*
- Puolo (PE and Ike Hawaii) classes are now 45-minute blocks, 3-4 times per week. Students still receive valuable physical education time, Library instruction 1-2 times per week and Visual Arts once per week. Computer instruction this year is currently delivered by the homeroom teacher. Finally, because of budget constraints, there is no Performing Arts during the school day this year, but we may try to have Performing Arts as an after school class.

Finally, the majority of our communication is via electronic media, especially during emergencies. I hope your families and your homes here and on the neighboring islands were safe from any storm damage. During emergencies, such as a hurricane, we try to keep our messages clear and consistent by officially receiving information from Civil Defense, the DOE, and the Charter Commission. Once we receive information from these official channels, we utilize various methods of communication—Facebook and SchoolConnects email and phone calls. We highly encourage you to keep your information current with us since our student records are updated daily. Thank you very much for your support of Kualapu'u School.

-Lydia Trinidad, Principal



2014-15 Student Council Officers

Student Council Elections

By Ms. Castro, School Counselor/SC Advisor

The beginning of the school year brought student council elections to Kualapu'u Public Conversion Charter School. Speeches from sixth grade candidates running for student council officer seats: President, Vice-President, Secretary, Treasurer, Sergeant at Arms and Corresponding Secretary were written and repeatedly practiced. Posters from candidates encouraging students to vote for them were displayed around campus.

During lunch on Wednesday, August 13th, prepared speeches were nervously given to awaiting fifth and sixth grade student voters. Every speech received loud applause and support. After the last speech was said, all candidates stepped out from behind the curtain in a group hug. Their peers' applause increased seeing the embraced unity of the student candidates.

As the Student Council Advisor, I am astonished at this particular group's unity developed in such a short time during this competitive event. It is my privilege to announce the 2014-2015 Student Council Officers:

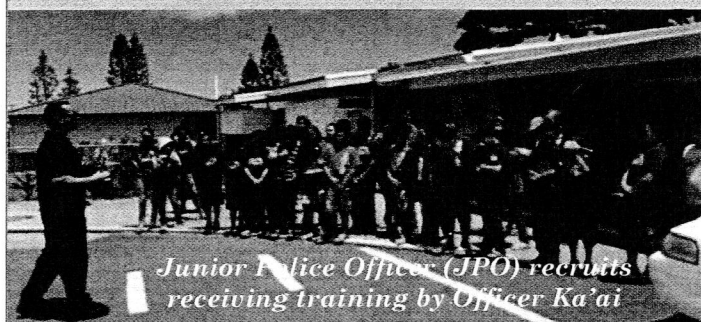
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|----------------------|---------------------------|
| • President | Mili Bicoy |
| • Vice President | John Bumatay |
| • Secretary | Aaliyah Cariaga |
| • Treasurer | Kahuhu Linker Meyers Moss |
| • Sergeant At Arms | Kekai English |
| • Corresponding Sec. | Saige Kaleo Aiana |

Kualapu'u School
OHANA FUN FAIR
 An Celebration of our 10th year as a charter school!!
 Sponsored by PEEK PARENTS & FAMILIES
SATURDAY, SEPTEMBER 6, 2014
8:00 AM till 1:00 PM
KUALAPUU SCHOOL GROUNDS
 Food, Craft, Games and
 Keiki Information Booths!!
 First Ever Little Miss & Master
 Kualapuu Comet Pageant
 PONY RIDES, FACE PAINTING, ART BOOTH,
 AIRBRUSHED TATTOOS, FREE PHOTO BOOTH FOR THE FAMILY
 WAGON RIDES, BOUNCY HOUSE, BALLOON ARTIST,
 MASS GROUP ZUMBA FOR KIDS AND PARENTS,
 LOTS OF ACTIVITIES FOR THE ENTIRE FAMILY!
PSO Toy Exchange
 BRING YOUR TOYS THAT ARE STILL IN GOOD CONDITION TO TRADE BY 9:30 AM
RUN FOR ALL!!
 For more information call Kualapuu School 567-6900



Thank You Friendly Market Center
 for donating shopping carts for our kids and
 PE equipment -our students love it!!

Student's Learn SERVICE at Kualapu'u School



Junior Police Officer (JPO) recruits
 receiving training by Officer Ka'ai



6th grade student helpers escorting
 K-1 students to lunch

Information About Cleared Fields Across From the School

There has been much discussion in the news and in our own island communities about the use of pesticides and genetically modified organisms in agriculture. And with the recent clearing of the Coffees of Hawaii land across from the school, these issues have been brought to the school level.

We have met with concerned parents and with Monsanto Molokai representatives, and have spoken with Coffees of Hawaii concerning the use of pesticides around our school. Throughout all of our conversations with individuals, groups and businesses, there was unanimous agreement: we all want to keep our children safe.

This letter is meant to communicate what Kualapu'u does on our own campus, as well as how we manage off campus safety concerns. Here are our answers to some basic questions:

What is the school's policy on the use of pesticides on campus?

Our school uses pesticides to control unwanted pests in our buildings and on campus. Typically, ant and roach products designated for household use are used to control these pests. Any spraying of these pesticides is used sparingly, according to the label (which is the law), and when the students are not present. In addition, the school hires professional services to rid the campus or buildings of unwanted pests when needed.

What about the use of pesticides on school gardens?

School gardens are popular on school campuses. Fortunately, we have not had to use pesticides on our school garden plants, and we hope to not have to use pesticides in the future. However, most recently, we have had to use pesticides on our taro plants in front of the school just to control the insects that are attacking the taro leaves. If pesticides are to be used, these will be used properly, and applied when children are not present.

Will these garden plants be served to our children?

Yes, when we have an abundance of vegetables from our garden. We plan and want to serve homegrown produce from our garden and from other Molokai farms. If we cannot get homegrown produce, there is a central distributor on Oahu from which school programs order their produce.

Does the school use herbicides?

The school has had to use herbicides (Round-Up) to control weeds and remove unwanted grass. The school has 11 acres to manage with a limited staff of custodial personnel. The use of herbicides is used sparingly, according to the label, and when children are not present.

Do you have concerns about the use of pesticides from the surrounding neighborhood area?

We have not had any concerns about pesticide use from the neighboring community. If we do encounter any concerns, we will contact the farm owner or representative, and if necessary, the State Department of Health.

Does the school have any concerns about the use of pesticides from the larger farms such as Coffees of Hawaii?

We have not received any concerns about pesticide use from COH. If we do receive any concerns, we will contact the farm owner or representative, and, if needed, the State Department of Health. It is only since the clearing of the land across from the school by Monsanto that such concerns have been brought to our attention by concerned parents.

So what is really happening in the fields directly across from the school? Are our staff and children safe?

This area was cleared of coffee plants at the request of Coffees of Hawaii. These coffee plants were old and harboring disease and pests. Because the area is now leased by Monsanto, they cleared the trees at the request of Coffees of Hawaii. Monsanto does not currently have plans for this area except to plant cowpeas as a cover crop to keep the dirt and dust in check. Monsanto typically does not apply pesticides to cover crops, and it is our understanding that pesticides will not be used on the cowpeas.

Members of our local school board and I proactively met with Monsanto Molokai representatives to address some concerns brought to our attention, and to ask if they could keep the area in cover crops for at least three years. They verbally agreed to do so effective immediately and provided a letter to that effect as well. Moving forward we are all committed to an open channel of continuing communication, and Monsanto has agreed to include us in discussions prior to any changes in the use of the land.

Our children are safe. We have and will continue to maintain a safety first philosophy as a priority for our children. In the event there any changes to the field or its use, we will contact Monsanto and, if necessary, the State Department of Health.

Great! So what now?

Our main organizational purpose is education and learning, and we want to maintain these purposes. We will continue to keep conversation open with concerned individuals, groups, neighbors, and businesses in the area. The school is also willing to be a safe venue for information and discussion. As an educational institution, we want to use this opportunity to set up grade-level learning and study activities, especially in science, as it relates to the environment, weather, soil, and gardening for example. We hope this situation will develop our capacity to partner with individuals, community organizations and businesses that have a mutual goal of learning and outreach for an educated community.

We understand that the GMO and pesticide issues, and the varying philosophies about food production, are evolving and are being debated in community conversation, courtrooms, and in our law-making institutions such as the legislatures or local city councils. Kualapu'u, as a public educational institution, provides a venue for learning, discussion, and debate, however the school itself does not take a position on GMOs, pesticides, or other related issues. Please know that staff, as individuals, may have their personal opinions on this and related issues, but they do not reflect the school's views.

At Kualapu'u we follow the local, state, and federal guidelines and laws that govern our facilities and safety expectations.

Above all, please be assured that we have our students' safety and health as a primary concern and responsibility in all situations.

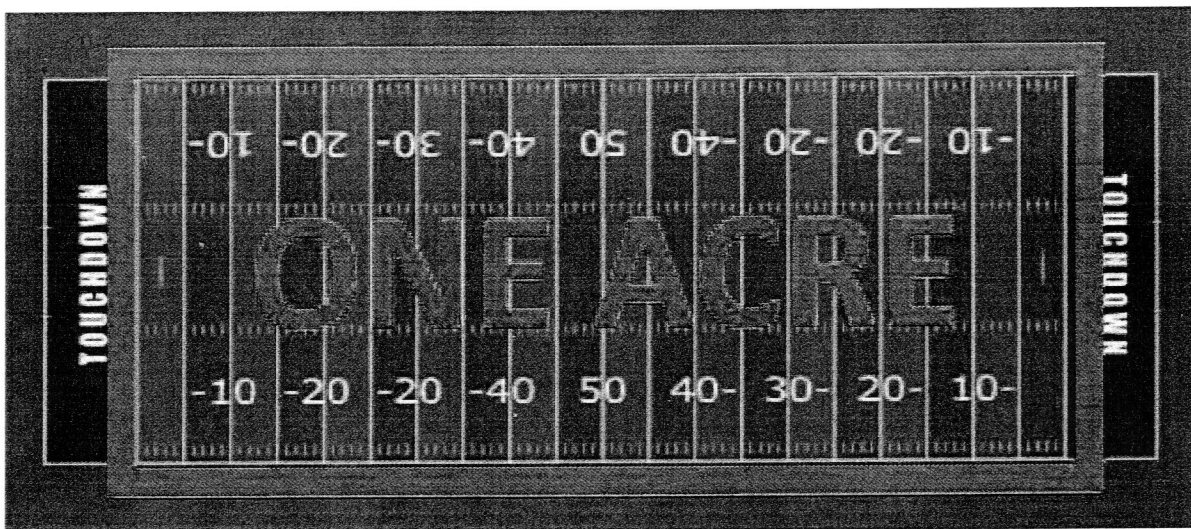
If you have questions, please contact Lydia Trinidad, Principal at 567-6900 and/or Lydia_Trinidad@notes.k12.hi.us.



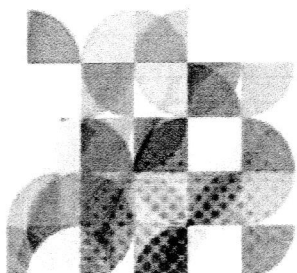
RESTRICTED USE PESTICIDES (continued...)

On the following page is a table summarizing Monsanto's use of Restricted Use Pesticides in the 2014 calendar year. To help provide some context to these figures, this table offers information on a per-acre basis as well as a per-square foot basis (43,560 square feet equates

to one acre). To imagine how large an acre is, think about the size of an American football field minus the end zones, or about the size of six tennis courts, or three Olympic-sized swimming pools.



(One Acre = A Football Field Minus the End Zones)



2014 RESTRICTED USE PESTICIDES USAGE

MAUI COUNTY (MAUI AND MOLOKAI OPERATIONS)

LIQUID:

COMMERCIAL NAME	ACTIVE INGREDIENT	TREATED ACRES	PRODUCT USED PER ACRE (AVG)	PRODUCT USED PER SQUARE FOOT (AVG)	AMOUNT OF PRODUCT USED
AAtrex 4L/ Atrazine 4L	Atrazine	541.1	43.19 oz	0.000991 oz	182.56 gal
Asana XL	Esenvaterate	1348.7	8.23 oz	0.000189 oz	86.69 gal
Baythroid XL	B-cyfluthrin	312.8	2.79 oz	0.000064 oz	6.82 gal
Cobalt Advanced	chlorpyrifos 28.12%, Lambda-cyhalothrin 1.44%	126.0	31.67 oz	0.000727 oz	31.16 gal
Coragen	Chlorantraniliprole	804.1	5.53 oz	0.000127 oz	34.73 gal
Dual II Magnum	S-metolachlor	599.5	24.74 oz	0.000568 oz	115.87 gal
Gramoxone Inteon	Paraquat Dichloride	250.8	35.00 oz	0.000803 oz	68.58 gal
Intrro/Micro-Tech	Alachlor	484.1	46.09 oz	0.001058 oz	174.34 gal
Lannate LV	Methomyl	334.7	23.73 oz	0.000545 oz	62.06 gal
Lorsban Advanced	Chloropyrifos	793.9	31.88 oz	0.000732 oz	197.74 gal
Mustang Max	S-Cyano (3-phenoxyphenyl)methyl (+) cis/trans 3- (2,2-dichloroethenyl)- 2,2 dimethylcyclopropane carboxylate	166.5	4.00 oz	0.000092 oz	5.20 gal
Pencap-M	O-Dimethyl O-p- nitrophenyl phosphorothioate 20.9%	2.0	64.00 oz	0.001469 oz	1.00 gal
Permethrin	Permethrin	1237.3	7.52 oz	0.000173 oz	72.73 gal
Princep 4L	Simazine	308.2	52.94 oz	0.001215 oz	127.47 gal
Tombstone	Cyfluthrin	308.9	2.80 oz	0.000064 oz	6.76 gal
Voliam Xpress	Lambda-cyhalothrin 4.63% Chlorantraniliprole 9.26%	132.0	8.80 oz	0.000202 oz	9.07 gal
Warrior with Zeon Technology	Lambda-cyhalothrin	84.9	2.72 oz	0.000063 oz	1.81 gal
Warrior II with Zeon Technology	Lambda-cyhalothrin	121.2	1.62 oz	0.000037 oz	1.54 gal

GRANULAR:

COMMERCIAL NAME	ACTIVE INGREDIENT	TREATED ACRES	ACTIVE INGREDIENT USED PER ACRE (AVG)	ACTIVE INGREDIENT USED PER SQUARE FOOT (AVG)	AMOUNT OF ACTIVE INGREDIENT USED
Force 3G	Tefluthrin 3%	318.00	0.1440 lbs	0.000003 lbs	45.80 lbs



ACTIVE INGREDIENTS IN RESTRICTED USE PESTICIDES - COMMON HOUSEHOLD USAGE

Many of the active ingredients listed in RUPs are also used in common household products. Here are some examples of their other uses. To use any product safely you must read the label and follow the instructions, just like farmers and ranchers do.

ACTIVE INGREDIENT	TARGET PEST FOR FARMERS & RANCHERS	COMMON HOUSEHOLD USE W/ SAME ACTIVE INGREDIENTS	HOUSEHOLD BRAND NAMES
Esfenvalerate	Corn Earworm Aphid Leafhopper	Inside the Home	Black Flag Home Invading Spider and Scorpion Killer
B-Cyfluthrin	Armyworm Aphid Leafhopper Stink bugs	Lawn and Garden Weed Control	Bayer Advanced Carpet Ant and Termite Plus
Chlorantraniliprole	Corn Earworm Thrips Armyworm	Lawn and Garden Insect Control	Scotts Grub-Ex
S-metolachlor	Grasses	Turf, Nursery and Landscape	Pennant Magnum
Chloropyrifos	Beet Armyworm Thrips Leafhoppers	Inside the Home	Hot Shot Maxattract Roach bait
Zeta-cypermethrin (2s)	Thrips	Lawn and Garden	Talstar XTRA Granular (fire ants, fleas, ticks)
Permethrin	Thrips Leafhoppers	Inside the Home Livestock Pet Care	Ortho Ant, Flea and Tick Spray
Simazine	Grasses	Pet Care	Algae Destroyer for Freshwater Aquariums
Lambda-cyhalothrin, Chlorantraniliprole	Corn Earworm Armyworm Cabbage Looper Leafhoppers	Lawn and Garden Insect Control	Spectracide Triazicide Soil and Turf Insect Granules
Lambda-cyhalothrin	Corn Earworm Armyworm Aphid Squash Vine Borer	Lawn and Garden Insect Control	Shultz Supreme Green Summer Fertilizer with Insect Control Spectracide Wasp and Hornet Killer
Tefluthrin	Cutworm Lesser Corn Borer	Inside the Home	(Pyrethrin) Raid Ant and Roach Killer

For more information about the safe use of products in your home, please go to the EPA educational web site: <http://www.epa.gov/kidshometour/>



SALES OF RESTRICTED USE PESTICIDES - 2013

	POUNDS PRODUCT	GALLONS PRODUCT	POUNDS ACTIVE INGREDIENT	
ISLAND OF HAWAII				
Urban / Structural Use	89,256.00	281.31	89,721.47	
County Government Use	91,325.00	0.00	90,868.38	
Agricultural Use	5,931.75	4,753.54	11,567.12	
	<u>186,512.75</u>	<u>5,034.84</u>	<u>192,156.97</u>	14.66%
ISLAND OF KAUAI				
Urban / Structural Use	31,751.00	48.38	31,806.92	
County Government Use	16,800.00	0.00	16,716.00	
Agricultural Use	5,153.97	5,153.50	17,282.23	
	<u>53,704.97</u>	<u>5,201.88</u>	<u>65,805.14</u>	5.02%
COUNTY OF MAUI				
Urban / Structural Use	51,623.20	340.80	51,272.47	
County Government Use	268,200.00	1.00	266,862.00	
Federal Government	40.00	0.00	0.20	
Agricultural Use	101,736.85	6,400.14	123,732.30	
	<u>421,600.05</u>	<u>6,741.94</u>	<u>441,866.98</u>	33.71%
ISLAND OF OAHU				
Urban / Structural Use	312,517.14	150.00	304,765.34	
County Government Use	33,950.00	0.00	33,780.25	
Federal Government	1,796.00	144.00	1,788.00	
Agricultural Use	10,338.12	43,147.06	270,617.86	
	<u>358,601.26</u>	<u>43,441.06</u>	<u>610,951.45</u>	46.61%
STATEWIDE TOTAL				
Urban / Structural Use	485,147.34	820.48	477,566.20	36.43%
County Government Use	410,275.00	1.00	408,226.63	31.14%
Federal Government	1,796.00	144.00	1,788.00	0.14%
Agricultural Use	123,160.69	59,983.24	423,199.50	32.29%
	<u>1,020,419.03</u>	<u>60,948.72</u>	<u>1,310,780.53</u>	