



RESOURCE RECOVERY • KA'ŌHAO PROTOCOL

A partnership of Windward schools working cooperatively in the pursuit of waste reduction, soil restoration, and applied environmental education. All members participate annually in the U.S. EPA's Food Recovery Challenge and adhere to strict, safe, standardized operational procedures.

SUMMARY • AUGUST 2017

A grant of \$10,000 awarded by the **Koaniani Fund** of the **Hawaii Community Foundation** enabled the Hui to elevate former Kupu intern **Jordan Nelson** to the now *professional* position of Resource Recovery Specialist, following an intensive year of apprenticeship. Jordan will serve as Trainer to new apprentices coming aboard.

An anonymous private gift of \$25,000 paid for infrastructure development at Ka'ohao and Kainalu.

KA'OHAO ELEMENTARY PUBLIC CHARTER SCHOOL

Start: January 2014 • Number of students: 330 • Annual food waste: 8.5 tons • Food waste collection: 100% cafeteria lunch and campus-wide snacks • Other: 98% HI-5 cans and bottles, green waste, paper, cardboard, mylar • Technologies: thermal composting, vermicomposting, bokashi

Food waste recovered: 1,554 pounds. Six additional tons of mulch was spread to complete the soil build-up phase of the front schoolyard restoration project, totalling 18 tons of organic material added since 2015. Three hose bibs were installed to deliver water to the Ka'ohao Farm and the hot compost operation was relocated there, the former rich ground repurposed as a citrus grove. A 20-foot shipping container was installed to accommodate custodial equipment, freeing up space for the upcoming Dish Room operation. The semi-annual vermicast harvest (4,972 pounds of food waste processed Feb-Aug) yielded 700 pounds of premium vermicast. Two hundred pounds was set aside for campus use, and 500 pounds sold within days at \$3/pound. With the sale of five pounds of surplus livestock following the harvest, Ka'ohao worms raised \$2,000 the very first month of the school year!

KA'ELEPULU ELEMENTARY

Start: August 2016 • Number of students: 201 • Annual food waste: 9.2 tons • Food waste collection: 100% cafeteria breakfast and lunch • Other: 100% HI-5 cans and bottles, some green waste • Technologies: thermal composting, vermicomposting

Food waste recovered: 1,844 pounds. New program manager parent volunteer Heather Marshman – well trained by departing founder Lindsey Whitcomb – did not miss a beat, launching Year Two on August 7th with the help of 5th grade assistants. Over the summer, Ka'elepulu hosted the first harvest of the Compost Club, setting the standard for fun and efficiency and producing plentiful top-quality compost. The rebuilding of the raised garden beds was completed by replacing old frames with sturdy recycled bleachers donated by Kailua High School. On August 26th, Ka'elepulu made history by re-inventing their annual Community Fun Fair as a Zero Waste event. Rubbish cans were banished, Separation Stations set up and staffed, brochures/posters printed and distributed, kids, staff, and parents prepared, and the public engaged. This 8-hour event, with hundreds of participants, generated less than four bags of rubbish – an unmitigated success! Interest is high in reducing waste even more next year.

KAINALU ELEMENTARY

Start: January 2017 • Number of students: 463 • Annual food waste: 14 tons • Food waste collection: 100% cafeteria breakfast and lunch • Other: 100% HI-5 cans and bottles • Technologies: thermal composting, vermicomposting

Food waste recovered: 2,968 pounds. Focus on infrastructure! Hose bibs were installed to allow the compost operation to relocate to the garden to accommodate growth. A 40-foot refurbished shipping container was installed to serve for utility cart parking, compost/equipment storage, and establishment of an outdoor educational area.

COMBINED AUGUST 2017 TOTALS

Four-week period from Aug. 4 through Sept.1, 2017. Includes 19 school days Ka'ohao, 18 Ka'elepulu and Kainalu

Total students participating daily: **994**

Total food waste recovered in August **6,166 pounds**

2017 total to date: 40,540 pounds (20.3 tons)
