Recycling Program Update

January 25, 2019 - presented by Sanne Berrig,
Department of Environmental Management

Recycling / Waste Diversion Programs

- 2-Bin Recycling
- HI-5 Deposit Beverage Container Program
- E-Waste Recycling
- Household Hazardous Waste (HHW)
- Scrap Metal/White Goods
- Do-It-Yourself Used Motor Oil
- Tire Education
- Greenwaste
- Reuse Centers
- Education and Outreach
- Polystyrene Food Service Ware Ban

Waste Hierarchy E.P.A. 1989

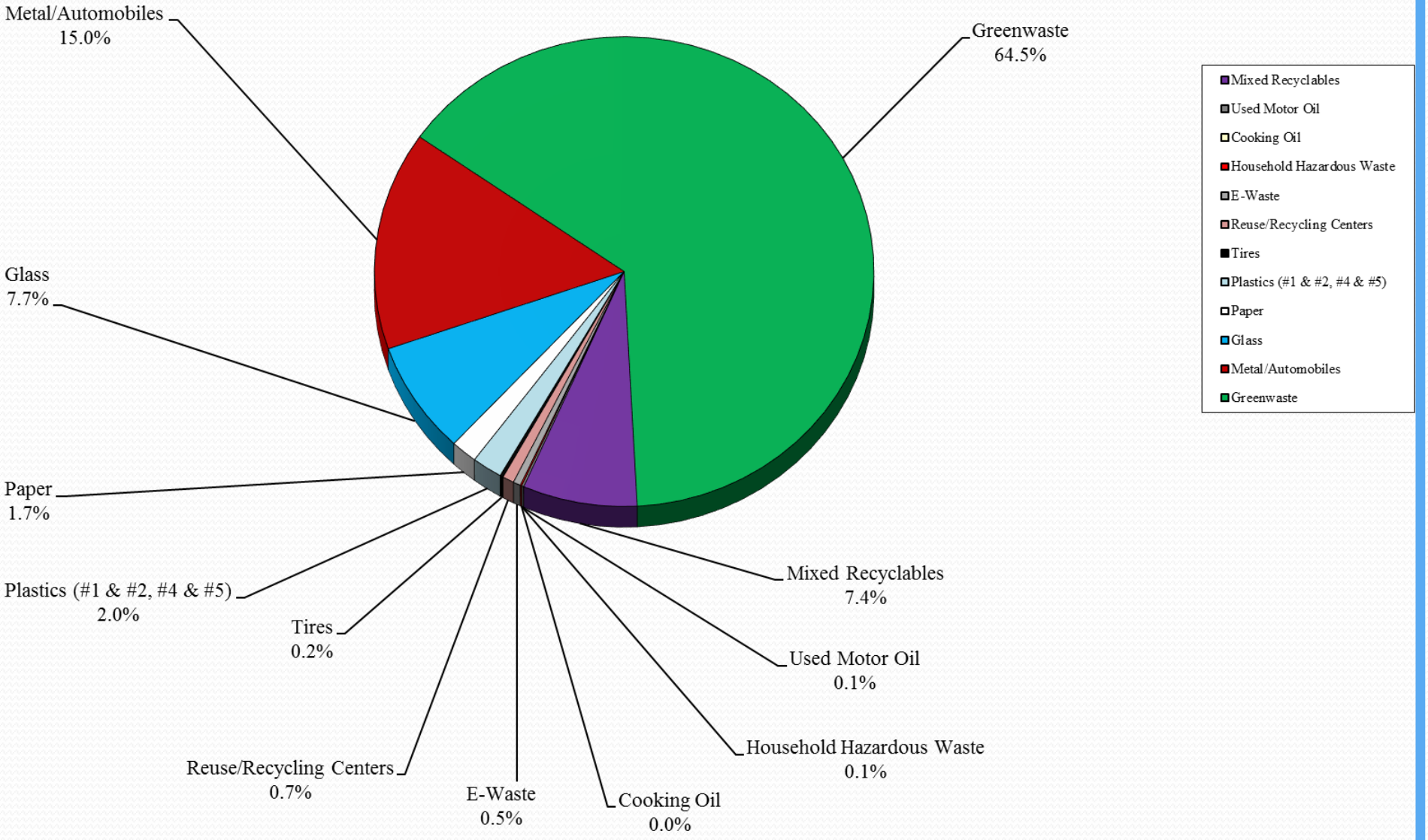
Image source: https://www.epa.gov/smm/sustainable-materials-management-non-hazardous-materials-and-waste-management-hierarchy

DIVERSION RATE SUMMARY

FY 2018

Total Landfill + Recycling/Diversion	96,462.66 tons
Total Recycling/Diversion	21,119.82 tons
Diversion rate:	20.8%
East Hawai'i	21.9%
West Hawai'i	20.2%

Diversions by Commodity Category



2-Bin Recycling Overview

2-Bin program consists of 2 distinct collection bins

- Mixed Recycling Bin
  - Paper (newspaper, copy paper, mail, corrugated cardboard, magazines, boxboard, etc.
  - Plastic jars, jugs, and bottles (

only); no caps/covers/lids
  - Metal and Aluminum cans (soup cans, canned meat, pet food cans, vegetable cans, etc.)
  - Metal lids – e.g. juice bottles & peanut butter jars.
- Glass Bin
  - Glass containers only – bottles, jars, etc.; no caps/covers/lids

Hilo, Kea'au and Kealakehe provide a separate bin for cardboard

Recyclables dumped on floor of MRF

Conveyered up to sorting line

Manual sort for trash first

Then film plastics / open bags

Mechanized agitator for metal & glass

These rollers get clogged, shutting down operations

From Waste Management magazine: Rollers clogged with plastic bags

http://mediaroom.wm.com/wp-content/uploads/2018/04/616x408-Brent-Bell-blog-800x530.gif

Bring your own bottle!

Baled commodities - Business Services Hawai'i

Processed glass at Business Services Hawai'i

What's New and *Why*??

Global Markets

Perhaps you've been hearing…

"It's China's fault!"

Not true! They finally have implemented strict environmental regulations in their country and simply no longer want to take the rest of the world's 25% contamination.

Single Stream / Mixed Bin Recycling:

Easy for Consumers, Bad for the Planet.

"Today, the average contamination rate among communities and businesses sits at around 25%. "

"The Battle Against Recycling Contamination is Everyone's Battle", April 3, 2018
WasteManagement : Media Room

www.Mediaroom.wm.com

PLASTIC

BOTTLES JUGS AND JARS

ONLY

No plastic bags, plastic film, #5 plastics, or ***any*** plastic that is <u>not</u> a bottle, jar, or jug.

No bento box / salad containers

No plastic caps / lids / covers.

We also need program participants to keep recyclables loose in the bin – please - *no plastic bags!*

Paper
Metal Cans
Plastic (Only 1 and 2 jars, bottles, jugs)

Paper
&
Cardboard
(flatten)

Metal
Cans
Metal caps/covers/lids okay.

Plastic
1 & 2
ONLY
No plastic cap/covers/lids.

Reduce Recycle Reuse

NO plastic bags. Only clean items.

www.HawaiiZeroWaste.org

Scan me

Glass

(only bottles & jars)

Rinsed. No caps/covers/lids.

Redeem HI-5¢ glass containers.

www.HawaiiZeroWaste.org

Scan me

Cardboard

Brown Paper Bags

Cardboard
(flatten)

Brown Paper Bags

corrugated

Reduce · Reuse · Recycle

www.HawaiiZeroWaste.org

Scan me

Recycle Clean
Recycle Right

Only recycle items listed for each bin.

Do NOT include:

- dirty or food stained items
- plastic that is not a jar, jug or bottle
- plastic 3, 4, 5, 6, 7
- plastic caps, covers or lids
- plastic bags or plastic film
- plastic take-out containers
- poison, pesticide or automotive fluid containers
- shredded, waxed or coated paper
- squeeze tubes and juice boxes or bags
- spray cans and propane or gas containers
- aluminum foil or single use pie/loaf pans

Please, NO trash.

When in doubt, leave it out!

See the complete list at: www.HawaiiZeroWaste.org

Scan me

Mahalo for Recycling Right!

Questions? Call 961-8098

www.HawaiiZeroWaste.org

Presentation tonight at Mokupāpapa Discovery Center by Sanne Berrig

Following slides are more data and information heavy. Don't use tonight so there's lots of time for Q &A – offer attendees if they are interested.

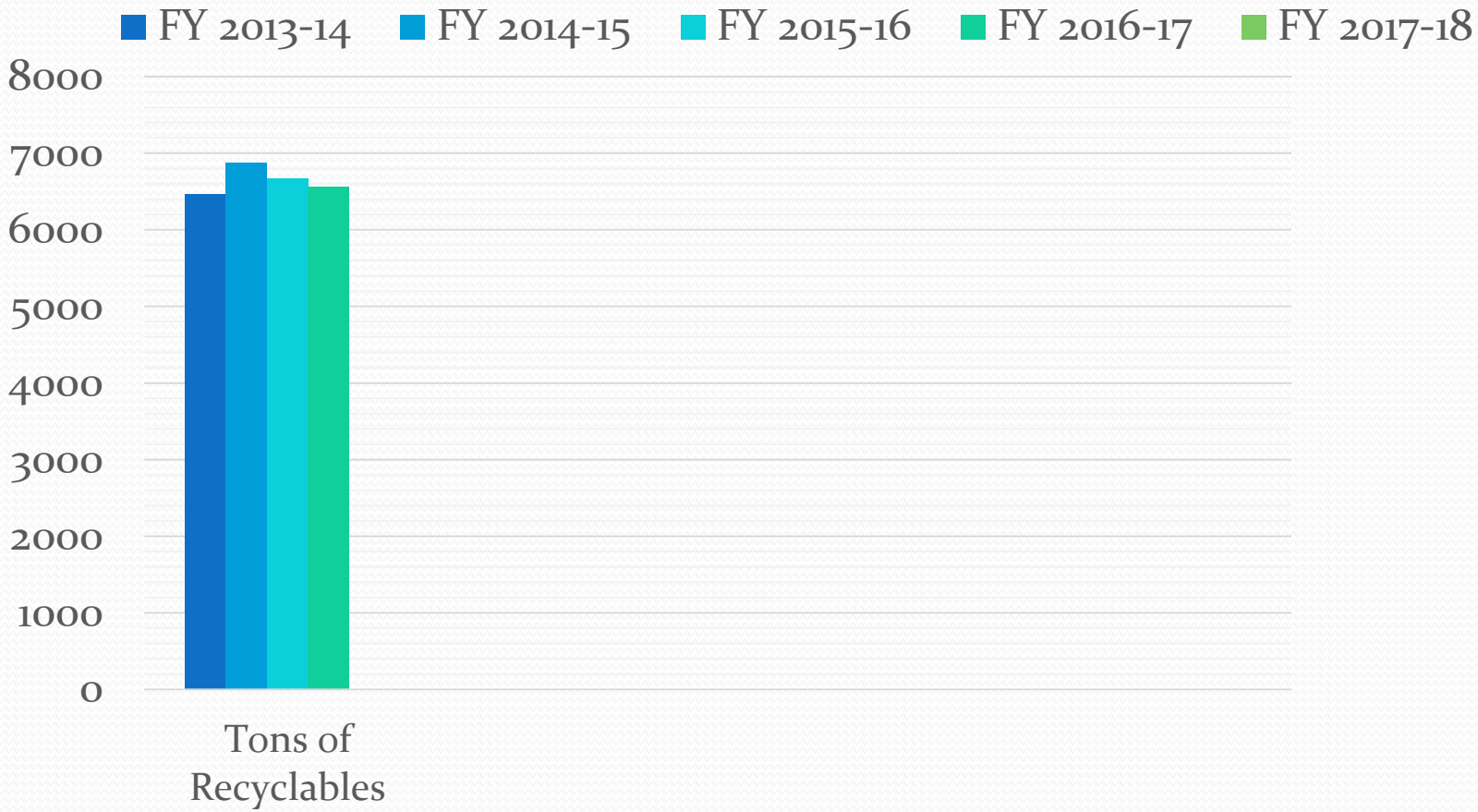
Recycling Program Staff

- Greg Goodale, Solid Waste Division Chief
- George Hayducsko, Recycling Coordinator
- Chris Chin-Chance, Recycling Specialist III
- Tanya Buckley, Recycling Specialist II
- Sanne Berrig, Recycling Specialist I
- Craig Kawaguchi, HI5 Recycling Specialist II
- Sherri Izuno, HI5 Recycling Specialist II
- Tina DeMello, Clerk III (Solid Waste Support Staff)

Education and Outreach

- County contracts with outside vendor to provide Recycling Education and Outreach island-wide.
- This program focuses on Educating the Community about the value of Recycling, Reuse Programs and Diversion of materials away from the County Landfills.
- County staff in our Recycling Section gives tours at Hilo and West Hawai'i Landfill including its diversion services to local government / civic groups and, on a more limited basis, presenting to schools. Our funding to into schools is *very* limited.

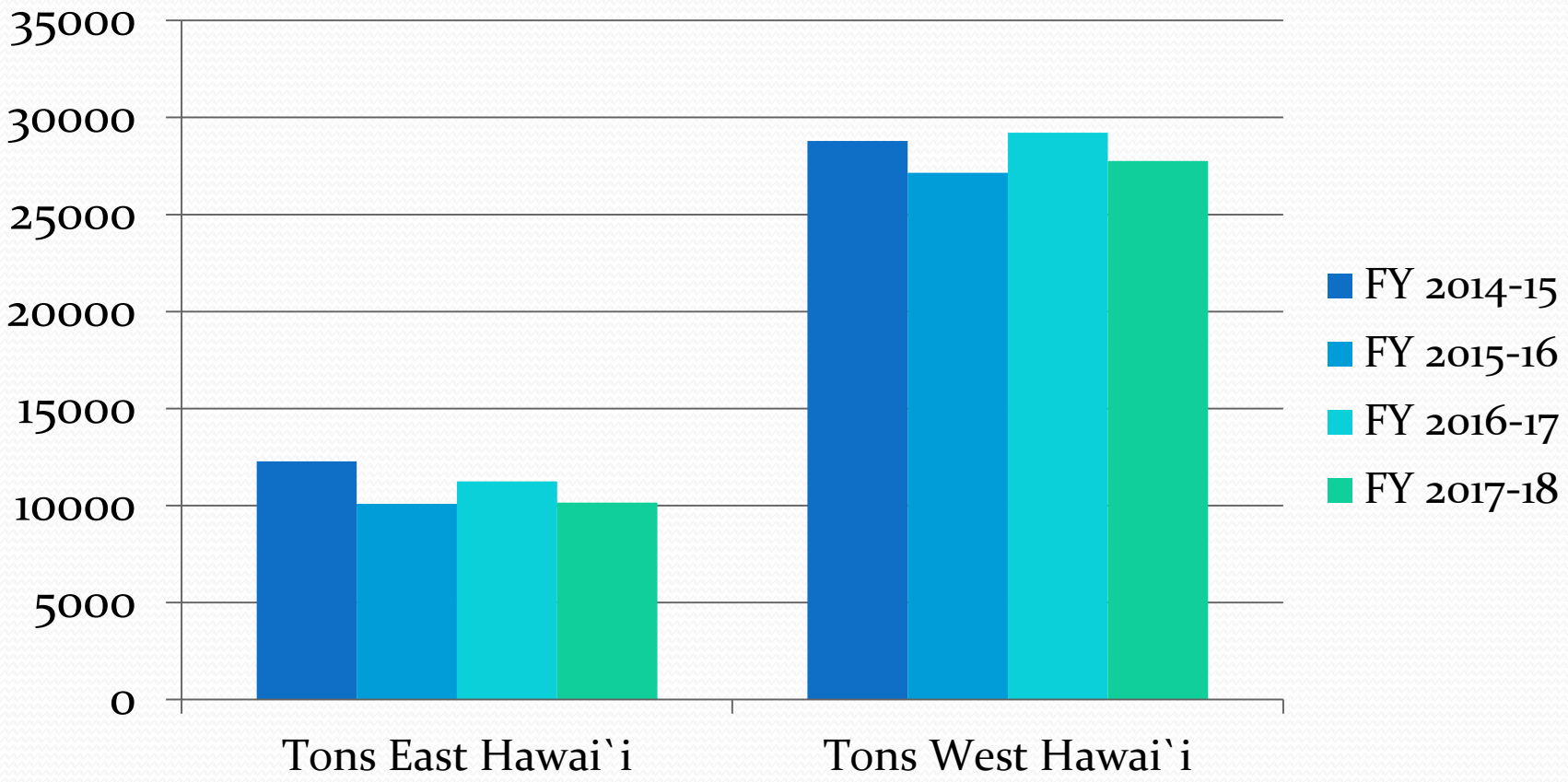
2-Bin Recycling



Greenwaste

- The County has instituted a program for the collection of residential Greenwaste at the following Transfer Stations island-wide:
  - Kea'au
  - Ke'ei
  - Pāhoa
  - Volcano
  - Kealakehe
  - Waimea
- The County collects and processes Commercial and Residential Greenwaste at both the East Hawai'i Organics Facility and West Hawai'i Organics Facility.

Greenwaste Received



Hilo Certified Redemption Center
BUSINESS SERVICES HAWAI`I
Business Services Hawaii
16-630 Kipimana Street, Kea`au, HI 96749
Phone: (808) 966-7489 Fax: (808) 982-3606
Email: info@businessserviceshawaii.com
Website: www.businessserviceshawaii.com
Hours of Operation:
Wed., Sat. & Sun.
8:00 a.m. to 3:30 p.m.
Nearest CRC:
ATLAS RECYCLING, (808) 935-9328
30 MAKA`ALA STREET
MON-FRI 8:00AM- 5:00PM
SAT, SUN 8:00AM-3:00PM
ATLAS RECYCLING, (808) 935-9328
2010 KILAUEA AVE
MON-FRI 8:00AM-4:00PM
SAT 8:00AM-2:00PM
Donations are accepted at this location when CRC is closed.
Mahalo for Recycling!
For more information on recycling: www.hawaiizerowaste.org

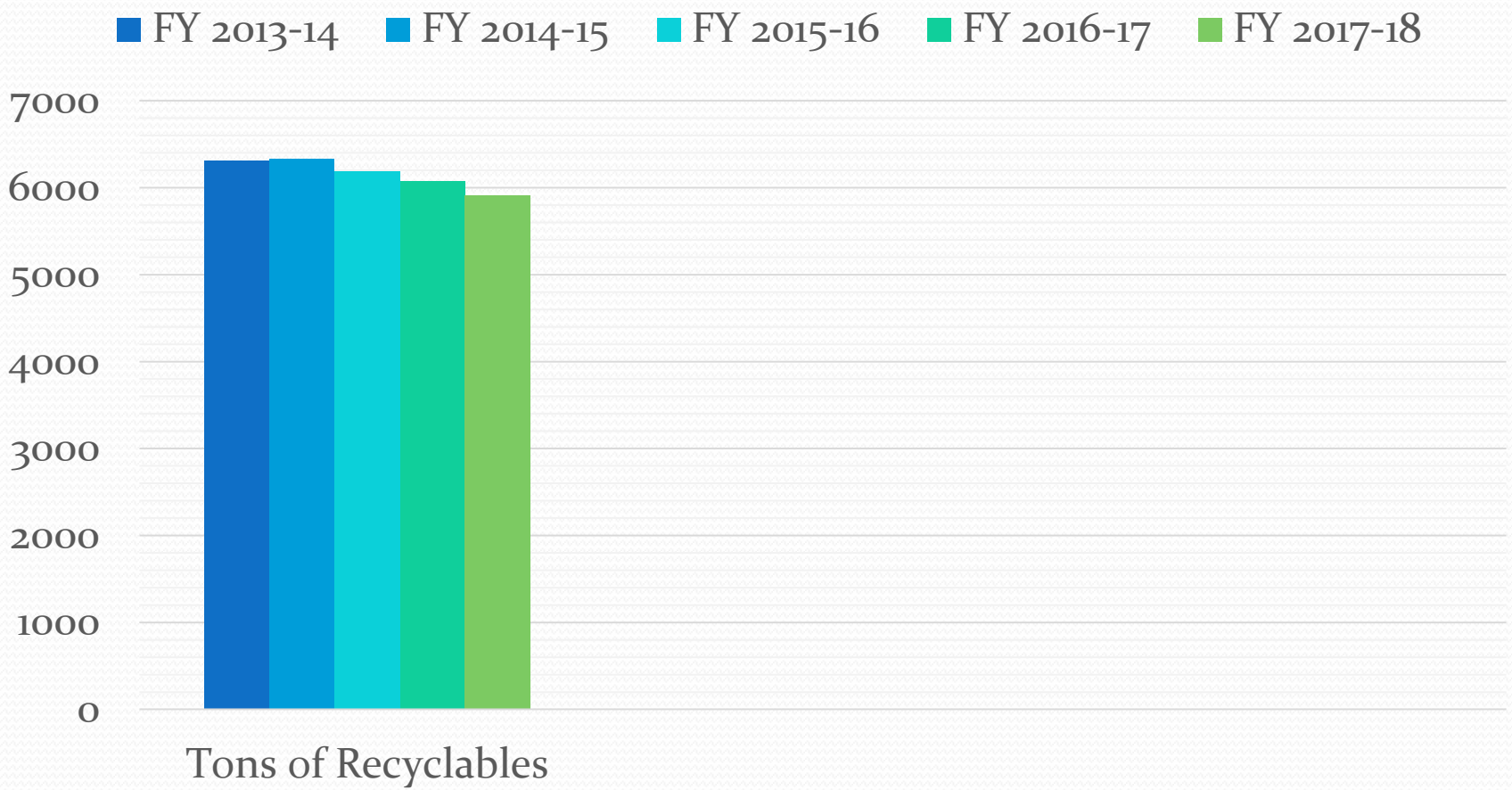
RECYCLING
REDEMPTION

HI-5 Beverage Container Redemption

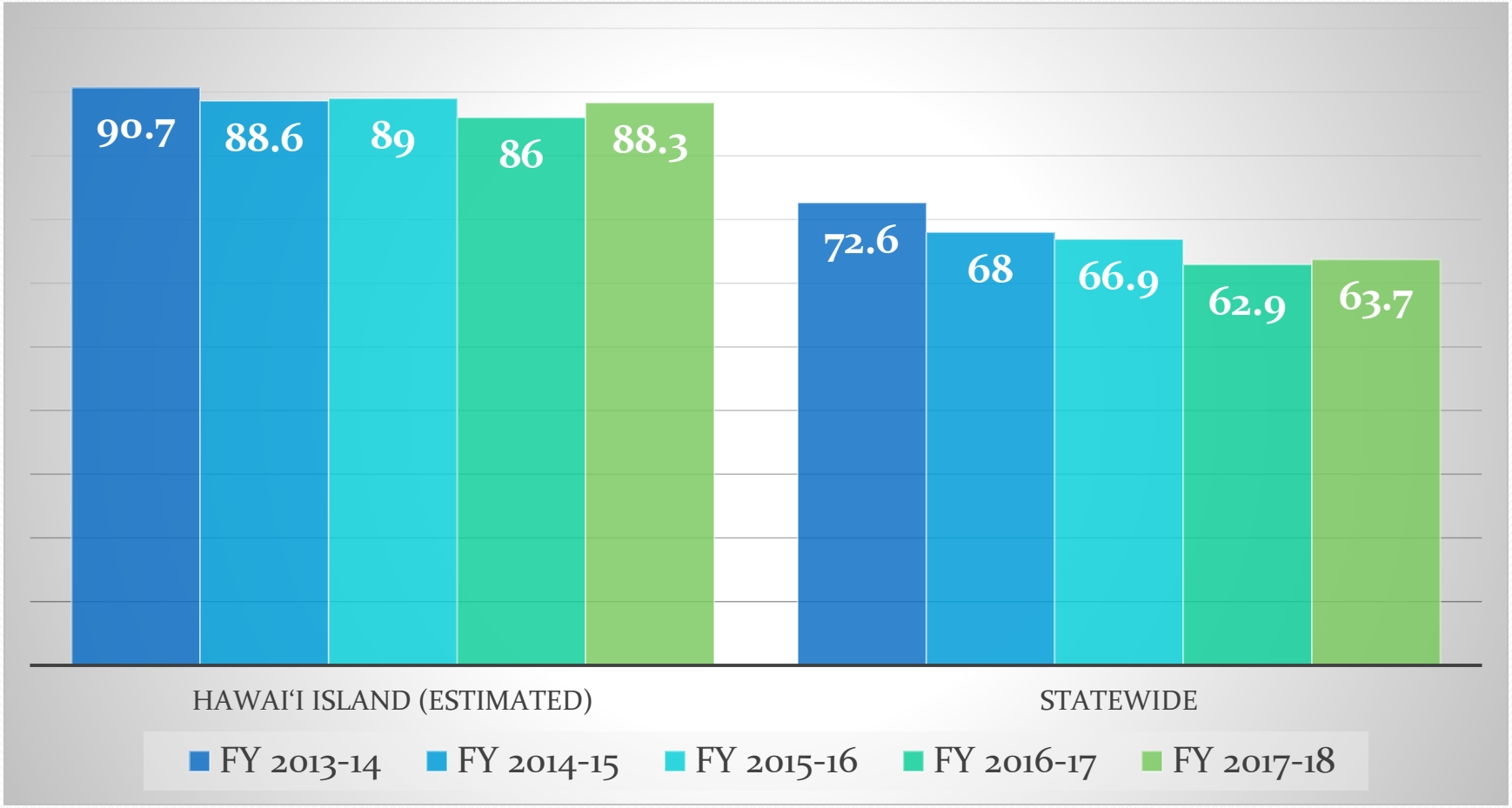
This program consists of administering the State HI-5 beverage container collection program which includes the following beverage types: **soft drinks, soda, juice, tea, coffee drinks, water, beer, malt beverages, mixed spirits and wine coolers in metal, glass or plastic containers** up to 68 fluid ounces.

County receives funds for administration of this program through the State of Hawai'i.

HI-5 Beverage Container Redemption



HI-5 Percent Redemption Rate



E-Waste Recycling

E-Waste includes:

- Computers, monitors, printers, battery backups
- TVs
- Electronic game systems
- Digital cameras
- Mobile & landline phones
- DVD's and VCR's

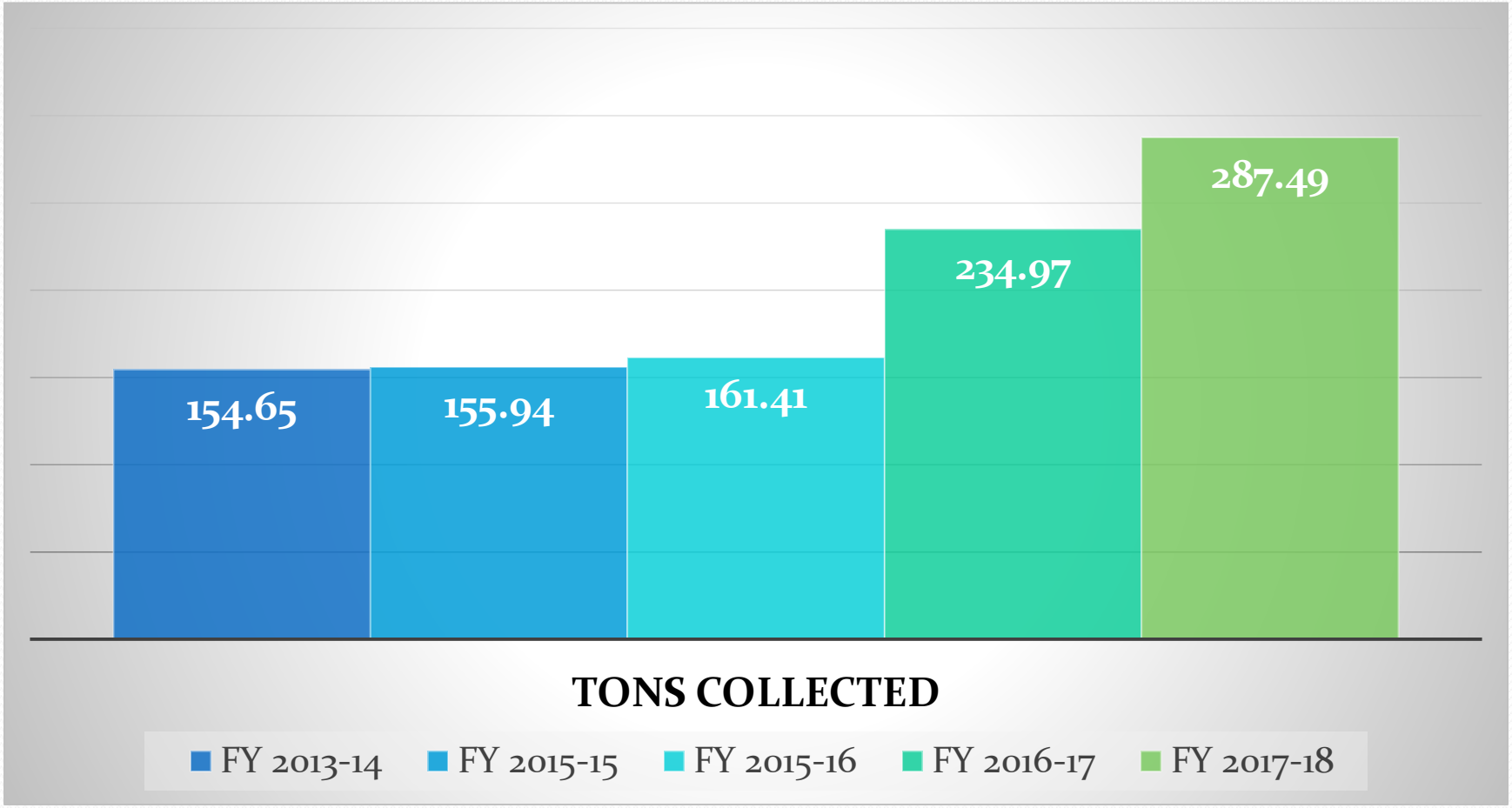
Residential E-Waste Monthly Collection Schedule at the Recycling & Transfer Stations

9:00 a.m. to 4:00 p.m.

- Waiʻōhinu - First Saturday of the month
- Waimea – Second Saturday of the month
- Kealakehe – Third Saturday of the month
- Hilo – Fourth Saturday of the month
- *For residential electronics only. No businesses or agencies allowed*

County also utilizes a private contractor who hosts collection of electronics at a private site (Mr. K's Recycle and Redemption Center). Businesses allowed. Fees may apply.
Daily 8:30 a.m. – 4:30 p.m.

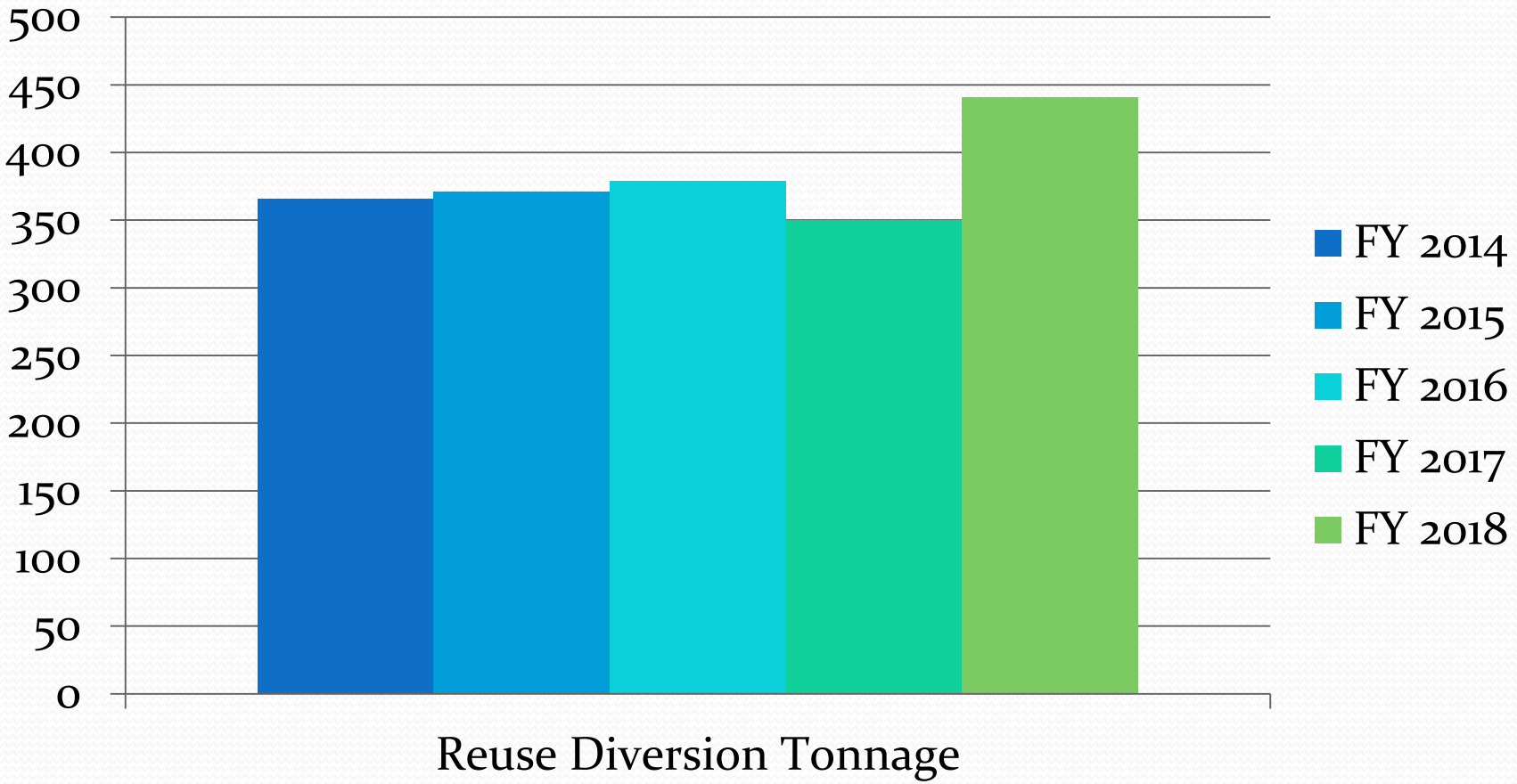
E-Waste Recycling



Reuse Center Program

- County contracts for operation of multiple reuse centers throughout the island at various Solid Waste Recycling & Transfer Stations.
- Materials are donated and resold to the public at a low cost.
- This program helps to ensure usable materials are diverted from the County landfills.

Reuse Centers



West Hawai‘i Reuse Centers

- **Kealakehe Recycling & Transfer Station**
  74-625 Hale Māka'i Place, Kailua-Kona
  Open 7 Days a week, 8:00 a.m. – 4:00 p.m.
- **Keauhou Recycling & Transfer Station**
  Monday through Saturday, 8:00 a.m. – 4:00 p.m.
  Sunday, 10:00 a.m. – 4:00 p.m.
- **Waimea Recycling & Transfer Station**
  7 Days a Week 9:00 a.m. – 4:30 p.m.

East Hawai‘i Reuse Centers

- **Kea'au Recycling & Transfer Station**
  Daily - 8:00 a.m. – 4:00 p.m.
- **Pāhoa Recycling & Transfer Station**
  Daily - 9:00 a.m. – 5:00 p.m.
- **Hilo Recycling & Transfer Station**
  Daily - 8:00 a.m. – 4:00 p.m.

- **Laupāhoehoe Recycling & Transfer Station**
  Sunday, Tuesday, & Friday
  This Reuse Center is run by volunteers.

South Hawai‘i Reuse Center

Wai‘ōhinu Recycling & Transfer Station

Tuesday through Saturday 10:00 a.m. – 4:00 p.m.

HHW Collection Events

Hilo

3rd Saturday of June & 1st Saturday of December
7:30 a.m. to 2:30 p.m.

Kealakehe (Kailua-Kona)

1st Saturday of June & 2nd Saturday of December
7:30 a.m. to 2:30 p.m.

Waimea

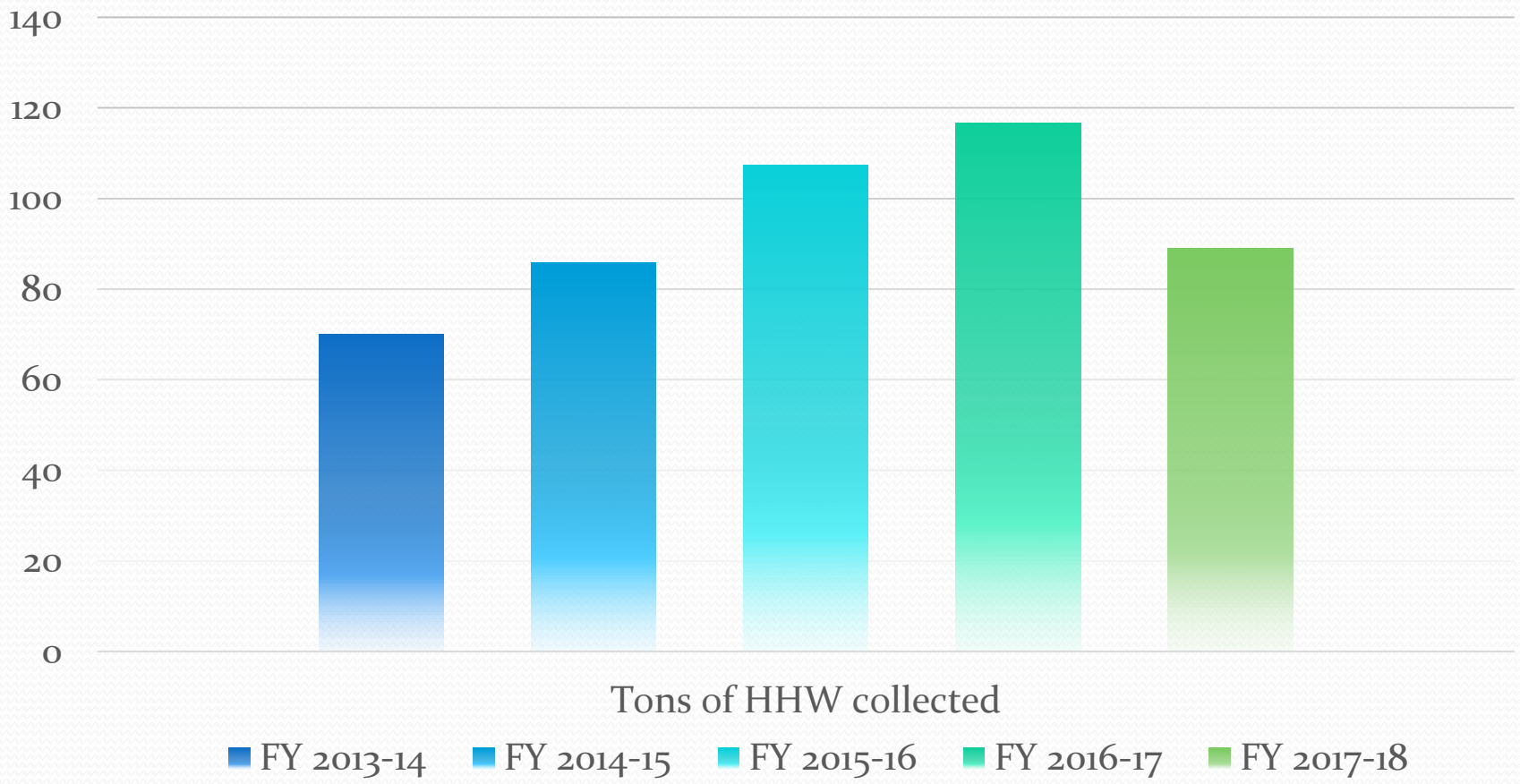
Saturday, March 3, 2019 - 8:30 a.m. to 3:30 p.m.

Pāhoa

Sunday, March 2, 2019 - 8:30 a.m. to 3:30 p.m.

Household Hazardous Waste Collection Events

Over 2,882 participated during FY 2016



Household Hazardous Waste (HHW)

County Collection Events accept:

- Automobile fluids (all types)
- Batteries (all types)
- Pesticides & Herbicides
- Mercury
- Non-controlled substances medication (no sharps)
- Oil-based paints and stains
- Fluorescent bulbs
- Photoelectric smoke detectors
- Non-Empty compressed gas cylinders/canisters
- Household generators only. No businesses, farms and etc.

REFRIGERATORS

Scrap Metals and White Goods

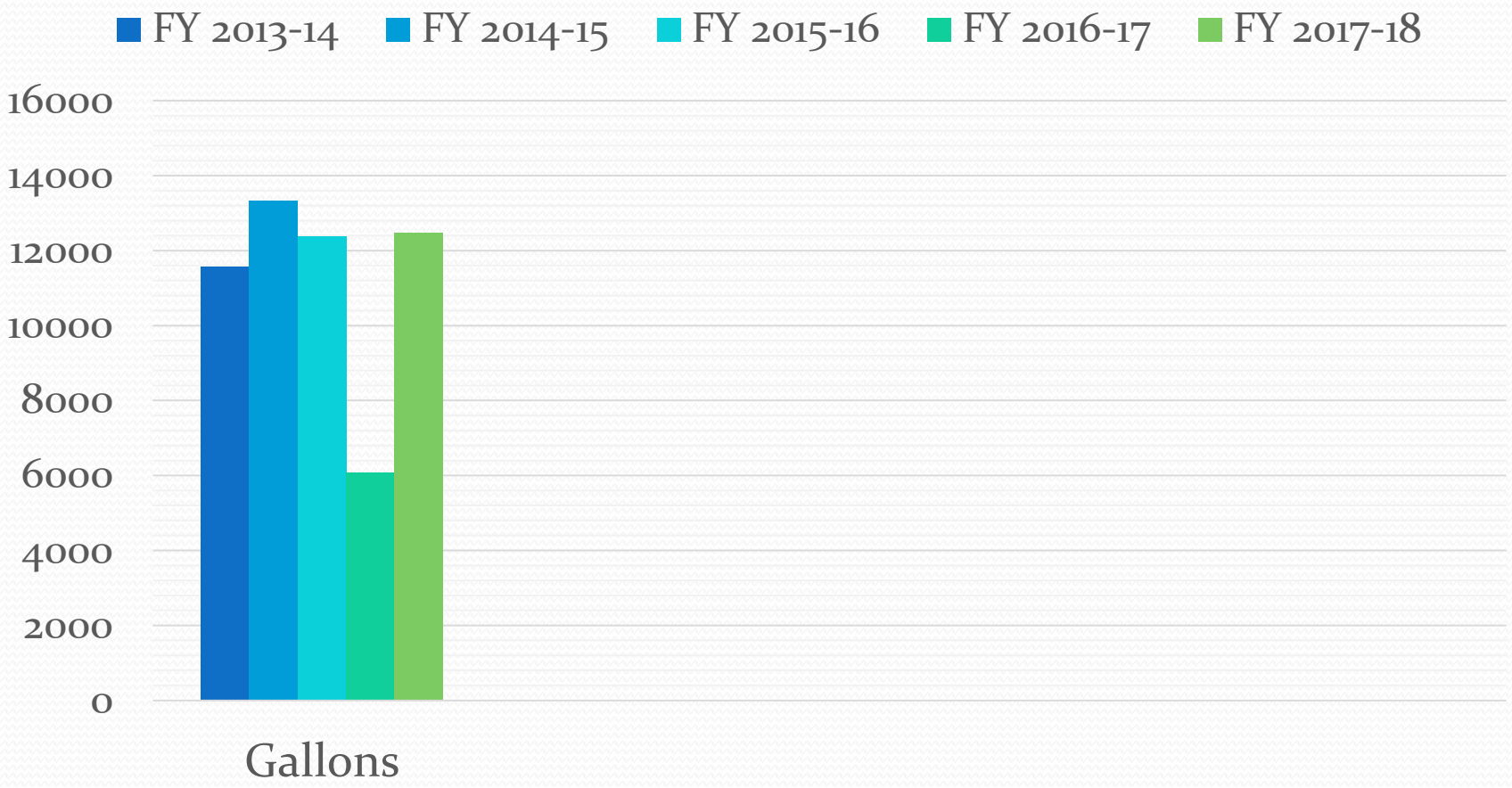
- The County accepts Scrap Metals and White Goods at multiple Transfer Stations island-wide. No businesses, farms or agencies allowed.
- White Goods consists of large appliances like Refrigerators, Freezers, Stoves, Washers, Dryers, etc. No Microwaves.
- Scrap Metal consists of materials such as roof iron, fencing, old equipment, loose metal, etc.

Do-It-Yourself Used Motor Oil Program

- Used motor oil
- Gear oil
- Shock oil
- Hydraulic oil
- Transmission oil
- Diesel
- *No businesses, farms or non-profits allowed*

Lex Brodie's Hilo

Used Motor Oil Processed



Year-Round UMO Collection Sites

- O'Reilly Auto Parts (Kailua-Kona)
- Kealakehe High School Building S
- CarTow - Kohala
- CarTow – Waimea (*pending*)
- Lex Brodie's Tire and Service Center, Hilo
- Pa'auilo Village Service
- South Point U-Cart, Ocean View

Tire Education Program

- County contractor educates Tire Vendors throughout Hawai'i County.
- This program educates the vendors about the state mandate to charge customers a disposal fee for used tires when purchasing a new tire and the mandate to accept used tires from customers in a quantity at least equal to the number of tires purchased at time of purchase.
- This program helps ensure that used tires are not being illegally disposed of.

Firestone Complete Auto Care

The Future of Recycling Programs

- The County is in the midst of updating its Integrated Resources Solid Waste Management Plan, with completion mid to late 2019.
  - This plan will evaluate all County diversion programs and will include evaluations of waste management options.
  - This update is required by the State of Hawai'i to occur every 10 years.
- Litter reduction program