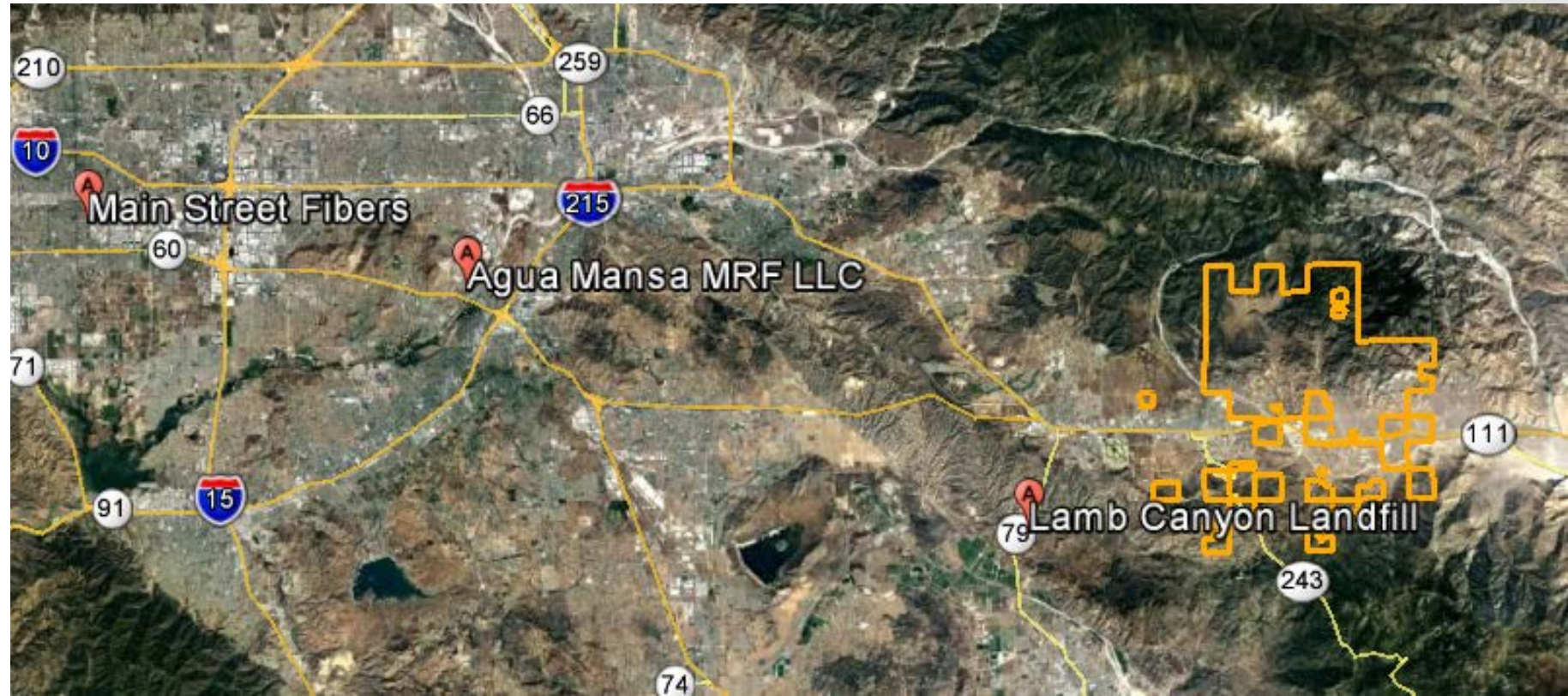


Recycling on the Morongo Indian Reservation

Casino Recycling Program Summary 2017 Dana
Morey, Manager
Morongo Environmental Protection Department

Morongo Indian Reservation



Residential Commingled Curbside Recycling



Tribal Enterprise/ Government Facility Recycling



Recycling Program

Conserve our precious resources by properly disposing of mixed recyclables!

**RECYCLABLE ITEMS**

- ALL Paper
- ALL Plastic Containers & Bags
- Bottles & Cans
- Tin Cans
- Cardboard

**NOT RECYCLABLE**

- NO Food or Liquids
- NO Paper Towels
- NO Styrofoam
- NO Wax Coated Paper

Together, We Can Make A Difference!
For Questions or Assistance
Contact the Environmental Protection Dept at 755-5128



Commingled Destination – MRF in Riverside, CA

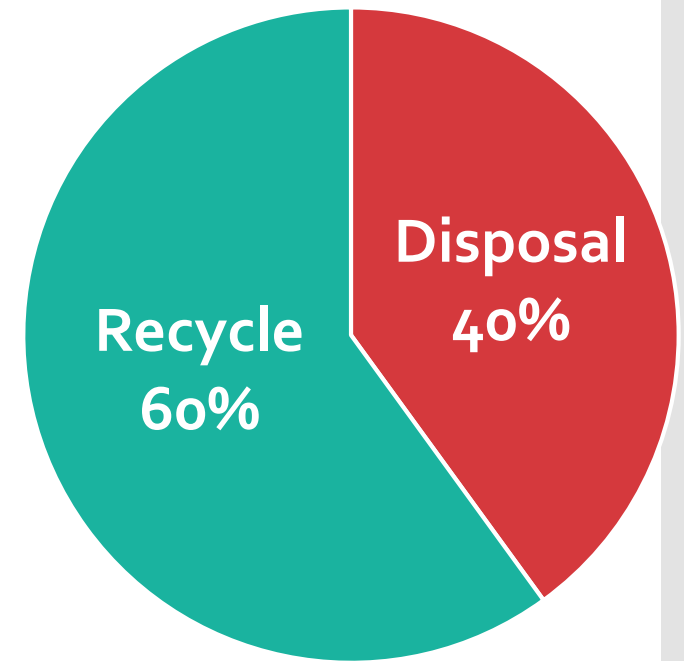


Morongo Casino Resort and Spa Recycling Program



Let's
get
started.

- Cardboard – saves space, easy win
- How do we capture the rest?
- 2008 – Cost Benefit Analysis
 - Total waste hauled
 - Utilized EPA/State waste characterizations for hotel/casino
 - Estimated a 60% recycle rate
 - Estimated cost savings
 - Potential recycling revenues
 - Estimated California Refund Value (CRV) returns



Who's with me?

- Management/Support
 - Morongo Environmental Protection Department
- Program implementation
 - Casino Department Heads
 - Facilities & Housekeeping Departments
- Participation from All Team Members!
 - Weekly training at New Hire Orientation
 - Green Team
- Transportation
 - Morongo Public Works (self-haul)
 - Recyclers
- End Destination Facilities
 - Partner with Recyclers



It's official.

- Support from Tribal Council
 - Motion #061008-11
- Developed/ distributed MCRS Recycling Program Policy
- Signed contacts with vendors/ recycling facilities
- Received State Certification
 - California State Certified Community Service Program
 - Benefits:
 - Receive full California Refund Value (CRV) returns
 - Drawbacks:
 - Follow State Regs
 - Maintain records
 - Recertification every 2 years
 - Potential State Inspections/Checks

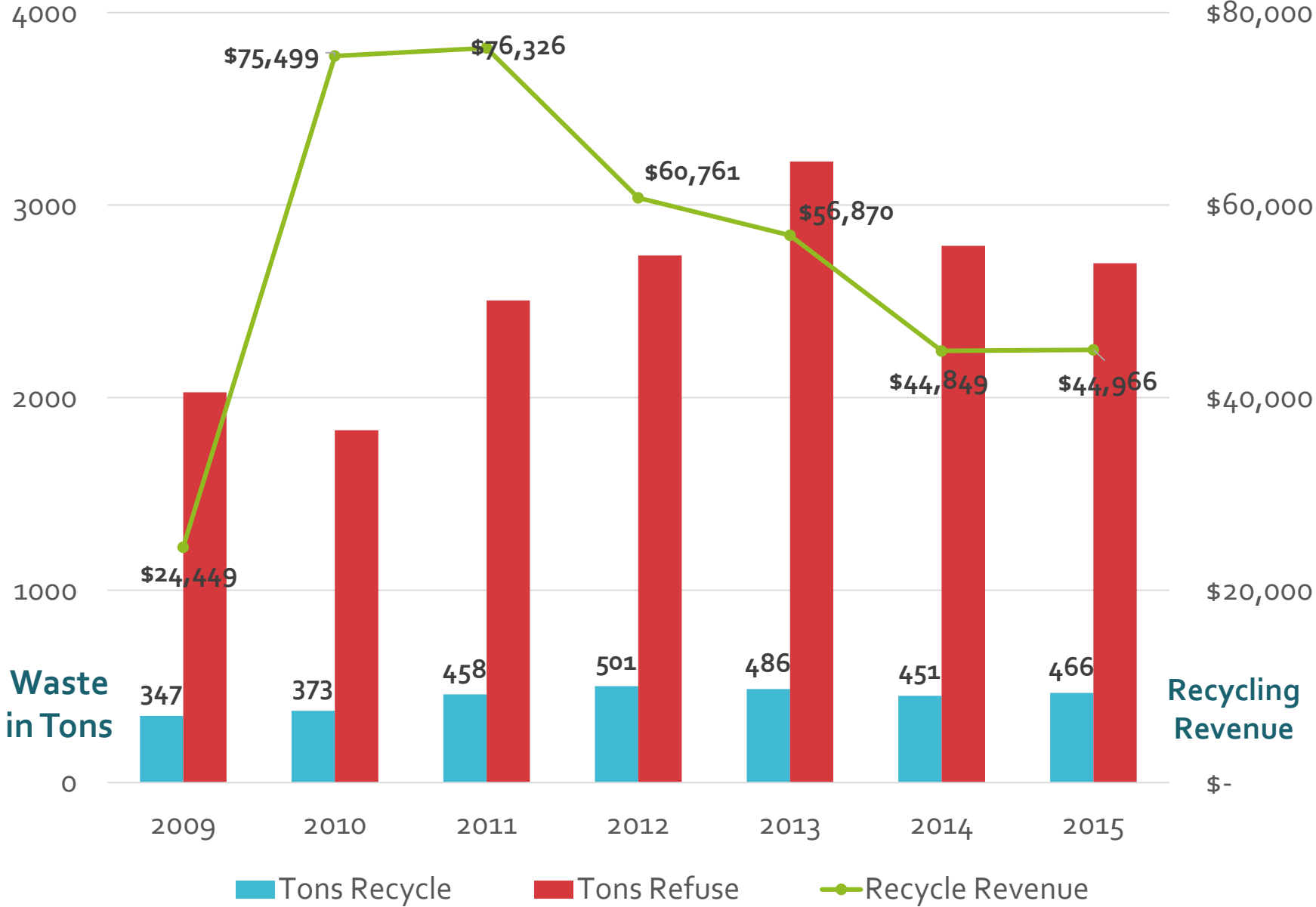
About those bills...

- Initial funding provided by EPA General Assistance Program (GAP) funds
 - Bins
 - Signs
 - Staff Time
 - Roll Off
- BIA funding
- Reuse what you have
- Recycle Revenue
 - Residential/Government Revenues used to support program
 - Casino revenues off-set waste disposal invoices



Evaluating Success

Average 15% Recycling Rate, by Weight



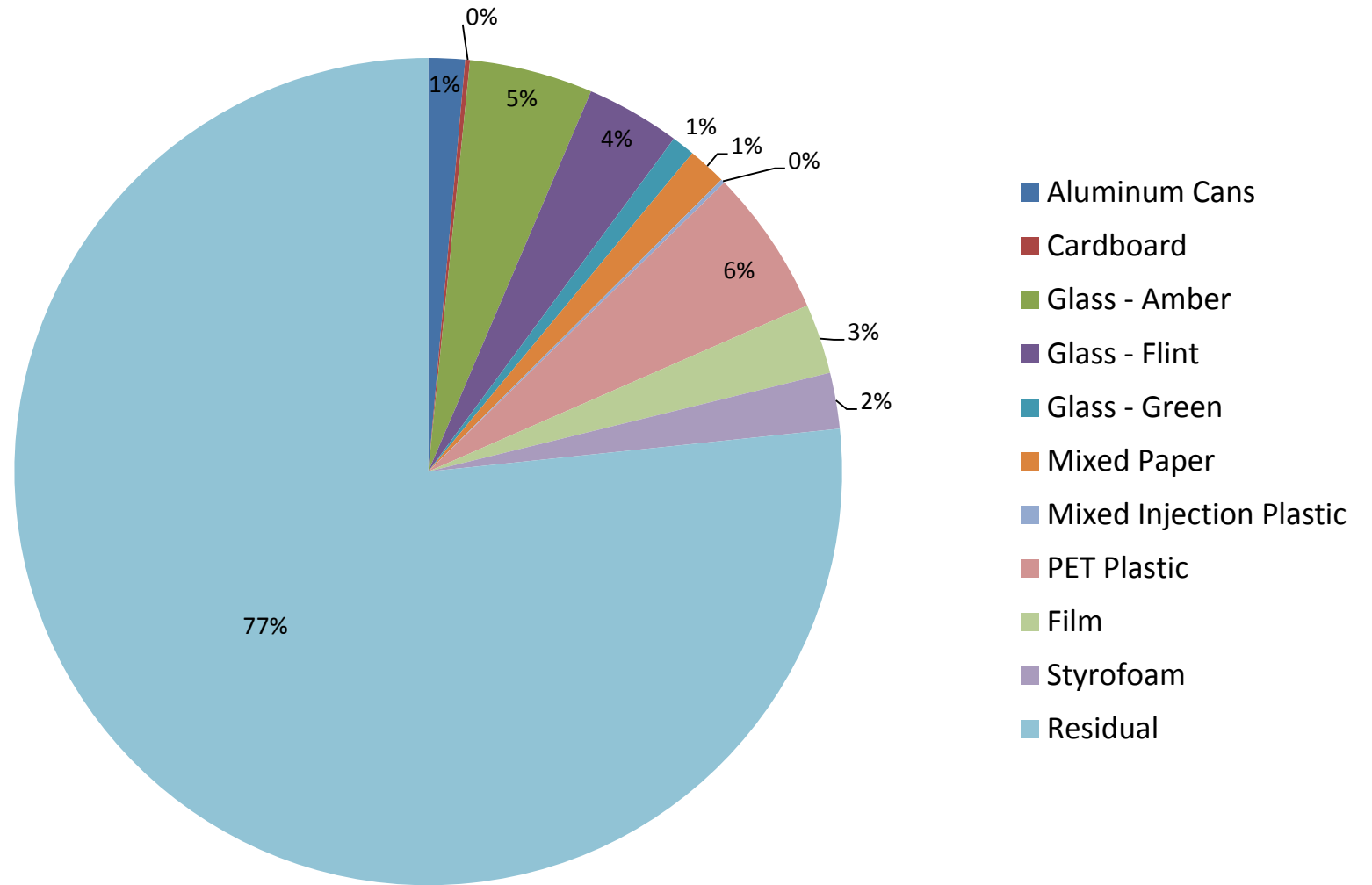
How can we improve?

Average 15% Recycling Rate by Weight

What are we missing?

Casino Floor Waste Characterization

August 27-28, 2013



How can we improve?

Improve recycling value of our beverage containers!

- 2015 Beverage Container Separation Pilot Project
 - *Based on San Manuel's casino recycling program!*
- Pilot Waste Collection Areas
 - Casino Floor
 - Hotel Housekeeping
- Sort & Drain
 - Plastic #1 CRV bottles
 - Aluminum cans and bottles
 - Glass by color (clear, brown, green/blue)
- Benefits
 - Reduced liquid contamination
 - Materials more valuable, receive full CRV
- Costs
 - Labor
 - Decreased value of commingled recycle loads



How can we improve?

Pilot Project Collection
2015



Expanded Glass, Cans, & Plastic Bottles Sorting 2016

Expand collection and
sorting! Transportation
provided by recycler!



RIP Commingled Recycling

Unintended
consequences of sorting.

- On-Going Commingled Confusion
 - “If you are unsure, throw it in the blue bin” – not true...
 - Evolving “What’s Recyclable” Lists
 - Not profitable → no longer recyclable
 - Ie. Styrofoam, plastic film
- Contamination Increased
 - Valuable stuff now sorted out
 - Food/ liquids in recycling bin
 - Non-recyclable items in the bin
 - At worst – 97% Contamination
- Program ended officially May 2016



Recycling 2.0, Back to the Basics



Glass, Cans, & Plastic Bottles

- Collect Beverage Bottles and cans in designated bins
- Plastic #1
- Aluminum Cans
- Glass – Clear, Green/Blue, Brown



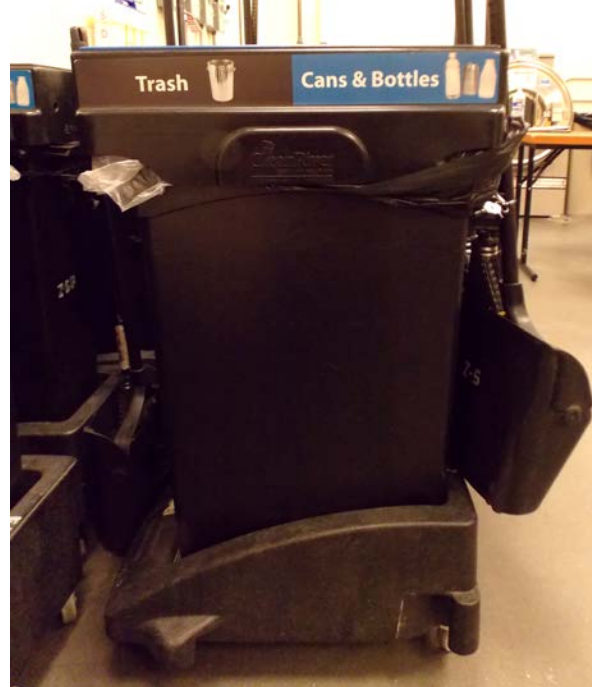
**Glass,
Cans &
Plastic
Bottles**



**Botellas de vidrio
Latas de aluminio
Botellas de plástico**



Glass, Cans, & Plastic Bottles



Mixed Paper (select locations)

- Collection bins primarily in offices and hotel
- Collect clean and dry mixed paper in designated bins
- Recyclable
 - Computer paper, Newspapers, File folders, Magazines, Envelopes, Brochures, Flyers, Chipboard (tissue boxes, toilet paper rolls)
- Not recyclable
 - Paper cups, Laminated signs, Frozen food boxes, Food contaminated paper



Recycling Sort Stations



Cardboard Recycling

- Easy win!
- Cardboard should be baled
 - Saves space
 - Increase value of materials
- Remove plastic wrap and foam packing blocks before baling
- No food contamination



Plastic Film Recycling

- Collection bins primarily in the Warehouse
- Collect clean and dry plastic film in the designated bin
- Acceptable Material:
 - Shipping plastic wrap
 - Clear plastic bags



Other Recycling Opportunities

- Wardrobe
 - Recycle old uniforms
- Hotel Housekeeping
 - Recycle old linens
- Engineering and Slots Departments
 - Recycle scrap metal
 - Recycle carpet
- Housekeeping Soap Reuse Program – Clean the world
- Electronic Wastes
- Pallets



Clean the World®

Recycling Waste Streams

2008 Recycle Streams

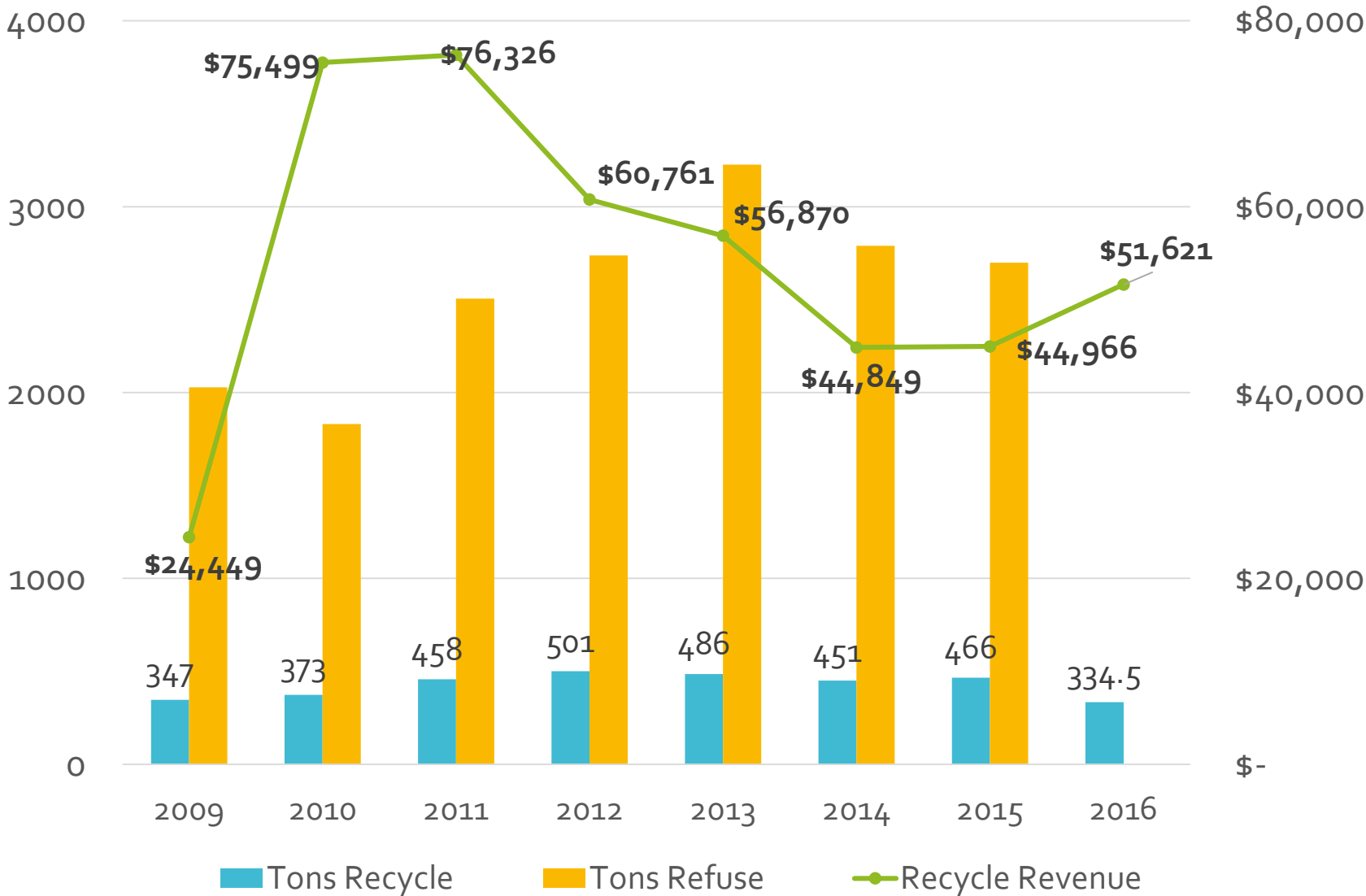
- Commingled recycling
- Cardboard Bales
- Pallets
- Electronic Wastes
- Special Projects
 - Scrap Metal

2016 Recycle Waste Streams

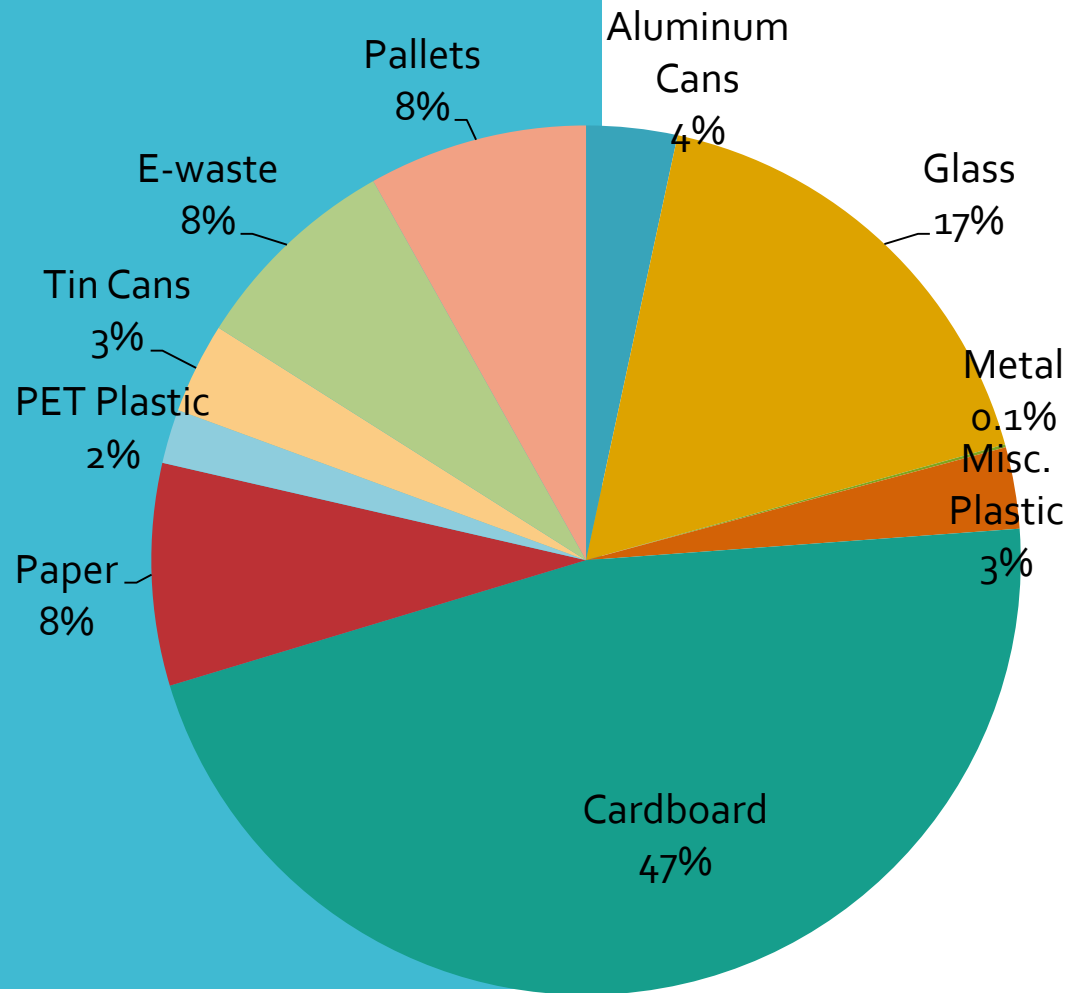
- Plastic Bottles
- Aluminum Cans
- Glass
- Plastic Film
- Mixed Paper
- Cardboard Bales
- Pallets
- Electronic Wastes
- Special Projects
 - Scrap Metal
 - Soap
 - Linens/Uniforms

Evaluating Success 2016

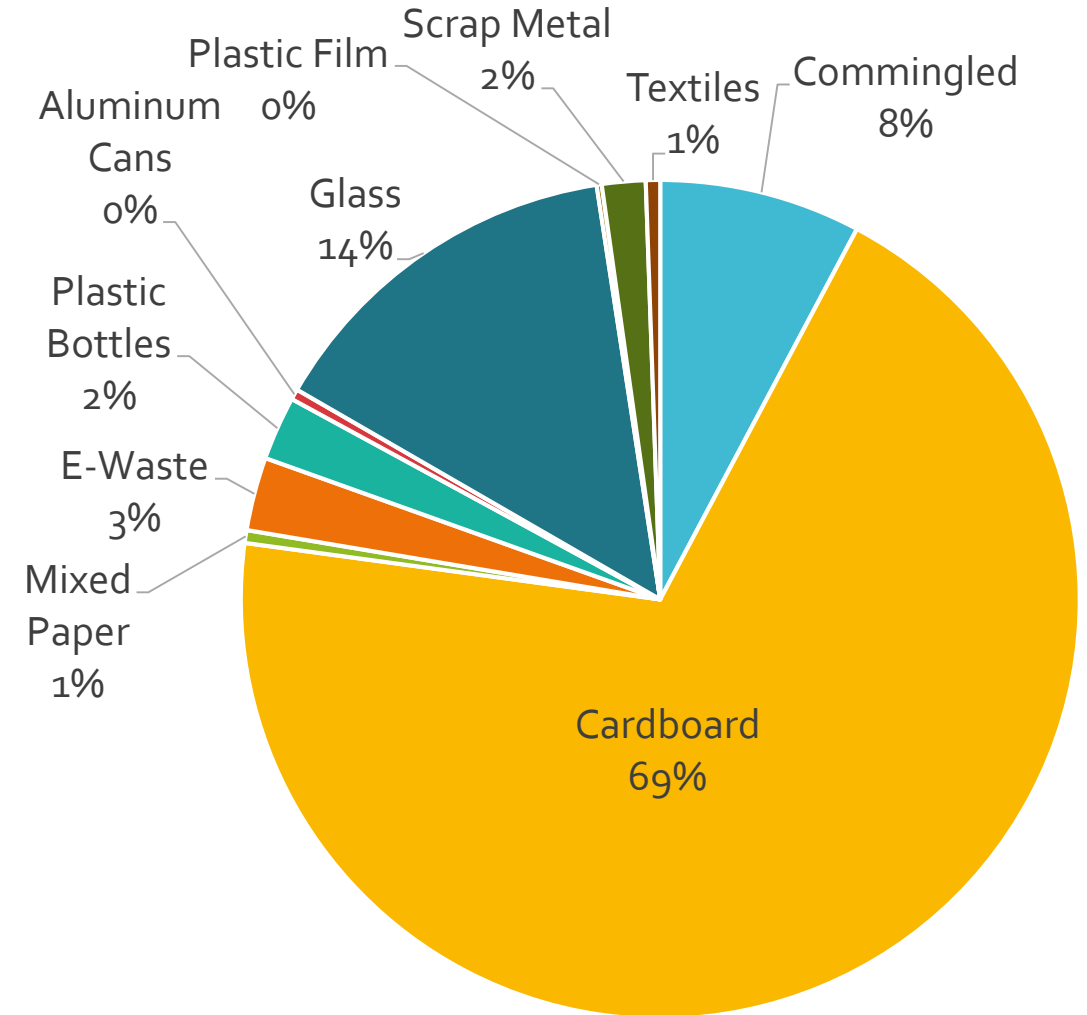
Average 12% Recycling Rate, by Weight



2010 Recycling Composition



2016 Recycling Composition



Are you ever
done? Nope.

- Program maintenance is very important!
- Learn, reevaluate, change, expand
- Staff Training
 - Turnover
 - Non-Casino employees
- Recycle Markets
 - Changing materials, processes, technologies
- Vendors change
 - Close up shop
 - No longer competitive
 - Stop paying...
- Bins and signs “grow legs” and disappear



Learn from my experiences...

- Recommend an actual waste audit at the beginning! The more info you have, the better your program will be!
- Be cautious of relying only on savings and revenue
 - All waste management is going to cost something
 - Markets change
- Find your “on-site” champion and empower them!
 - Thanks to Tonya Collier, Facilities Manager; Emilio Mariscal, Facilities Assistant Manager; Ron Hendershot, Hotel Manager; Julio Rivera, Facilities Supervisor
- It’s ok to change and update your program. Be Flexible! Listen, learn, and update!