



Photography courtesy of Jennifer Ward

Solid Waste and Recycling Programs

EXHIBIT C – RECYCLED PRODUCTS
Document consists of 16 slides.
Entire Exhibit provided.
Meeting Date: 06-26-12

Solid Waste Services for Douglas County

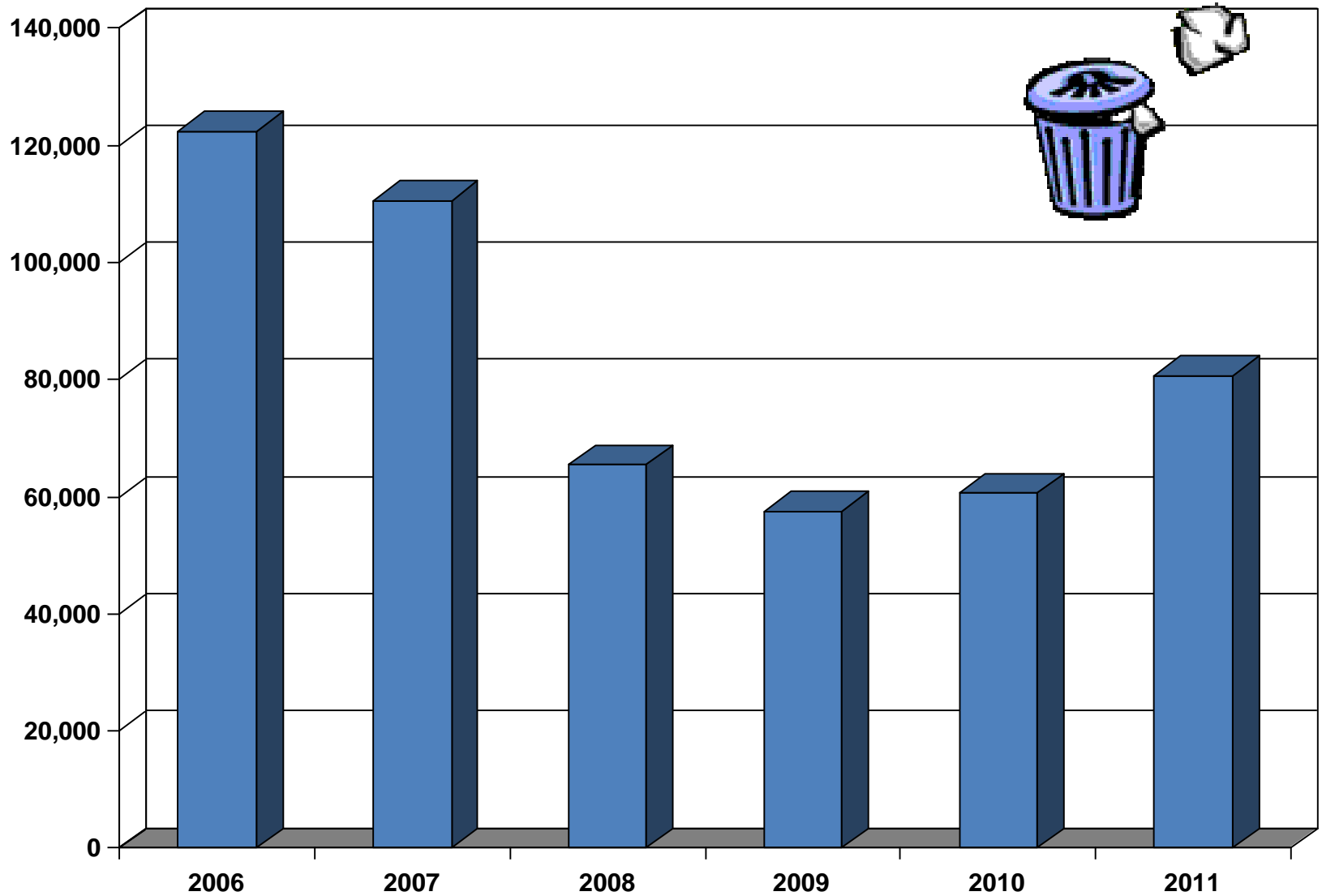
Carson Valley

- **Douglas Disposal and Recycling Services – since 1978**
Carson Valley 8,900 customers including Alpine County, California
Solid waste, drop-off recycling and transfer station recycling
- **Town of Minden**
1,300 homes and businesses
Solid waste and green waste recycling
- **Town of Gardnerville**
1,500 homes and businesses
Solid waste and green waste recycling

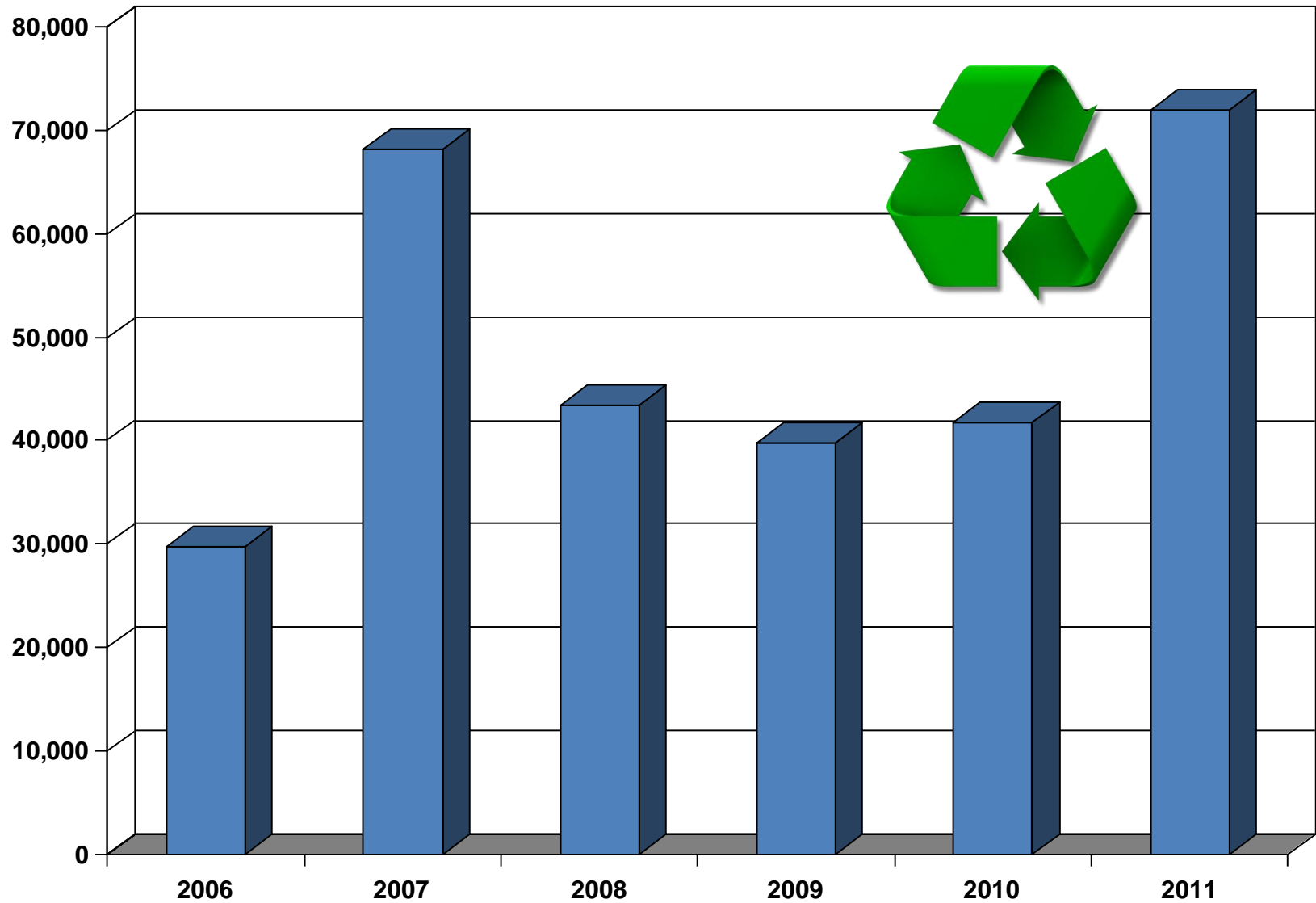
Lake Tahoe

- **South Tahoe Refuse and Recycling Services – since 1962**
- **Tahoe-Douglas Township**
2,200 customers
- **City of South Lake Tahoe, CA**
9,800 customers
- **El Dorado County east slope, CA**
5,800 customers
Solid waste, blue bag recycling, green waste recycling, CA buy-back recycling, LEED project recycling

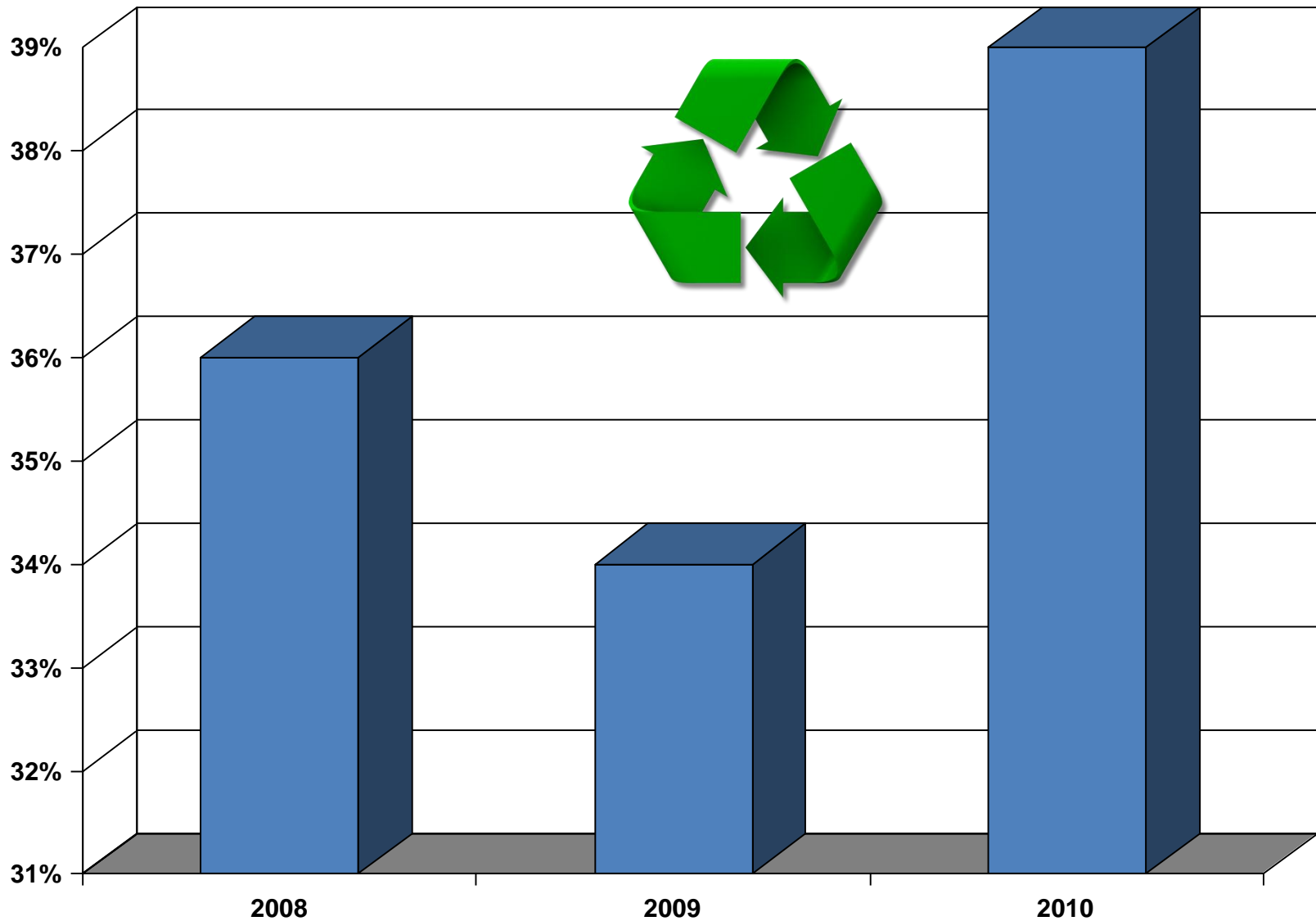
Douglas County MSW Waste Generation in Tons



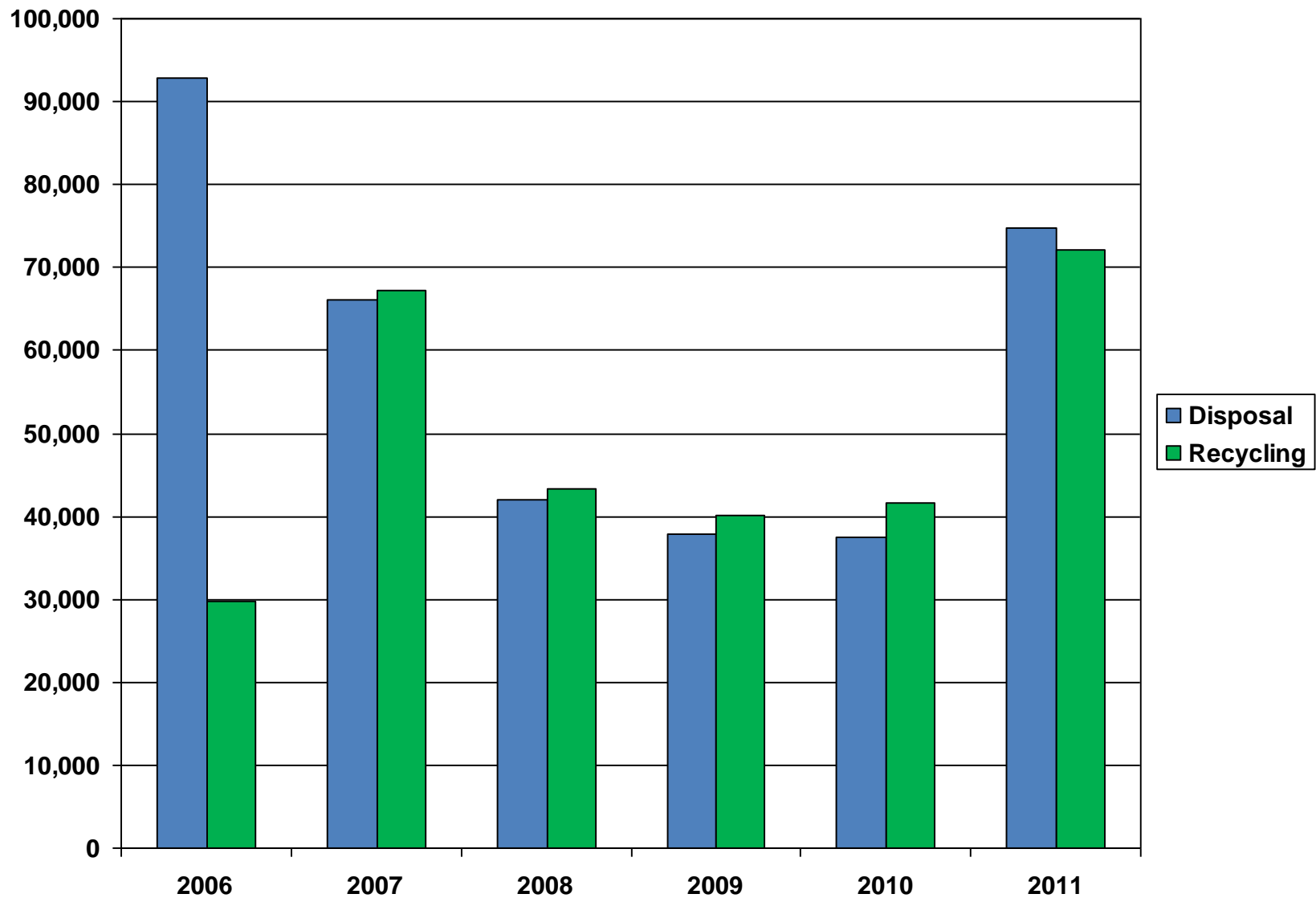
Douglas County Recycling in Tons From County Reports



Douglas County Recycling per NDEP



Douglas County Recycling versus Disposal



Recycling “Carson Valley Style”

Douglas County Transfer Station

County owned 20,000 sq. ft. facility located on 25.5 acres at the end of Pinenut Road, Gardnerville

- ❖ Public drop-off recycling
- ❖ Green waste recycling
- ❖ Metal recycling
- ❖ Used oil recycling
- ❖ Hazardous, universal and e-waste recycling





Douglas Disposal & Recycling Services



Community Recycling Drop-Off

- Pa Wau Lu Middle School
- Jacks Valley Elementary
- Gardnerville Elementary
- Topaz Community Center
- Animal Shelter
- Boy Scouts
- Bently Biofuels
- Alpine County, California



Special Routes

- Food Waste Recycling
- Christmas Tree Recycling
- Office Paper Recycling
- Cardboard Recycling
- Construction Recycling



Special Events

- Compost Your Combustables
- Green Living Festival
- Washoe Tribe Earth Day
- School Earth Day Events
- Parade of Lights



Recycling “Lake Tahoe Style”

Materials Recovery Facility

A conveyor system employs 12 sorters:

- Aluminum Cans
- Glass Beverage & Food Containers
- Plastic #1, #2, and #3-#7
- Tin Cans
- Newspaper
- Cardboard
- Mixed Paper



Floor operations employs 10 sorters:

- Metals and Appliances
- Asphalt and Concrete
- Tires
- Electronic Waste
- Used Motor Oil and Antifreeze
- Automobile & Household Batteries



California Redemption Recycling Centers

- Beverage container “bottle bill”
- Employs 10 processors

Organic Materials Facility

Employs 5 sorters and processors

Curbside Green Waste Collection

Landscapers, Tree Service

Contractors



Fuels Reduction Projects

Cal-Green and LEED Projects

Alternative Daily Cover (ADC)





South Tahoe Refuse
& Recycling Services

Special Routes

- Food Waste Recycling
 - Embassy Suites
 - Marriott
 - Zephyr Cove
- School Recycling
 - All schools in service area
- Christmas Tree Recycling
 - Curbside, no charge
- Office Paper Recycling
- Cardboard Recycling



Special Events

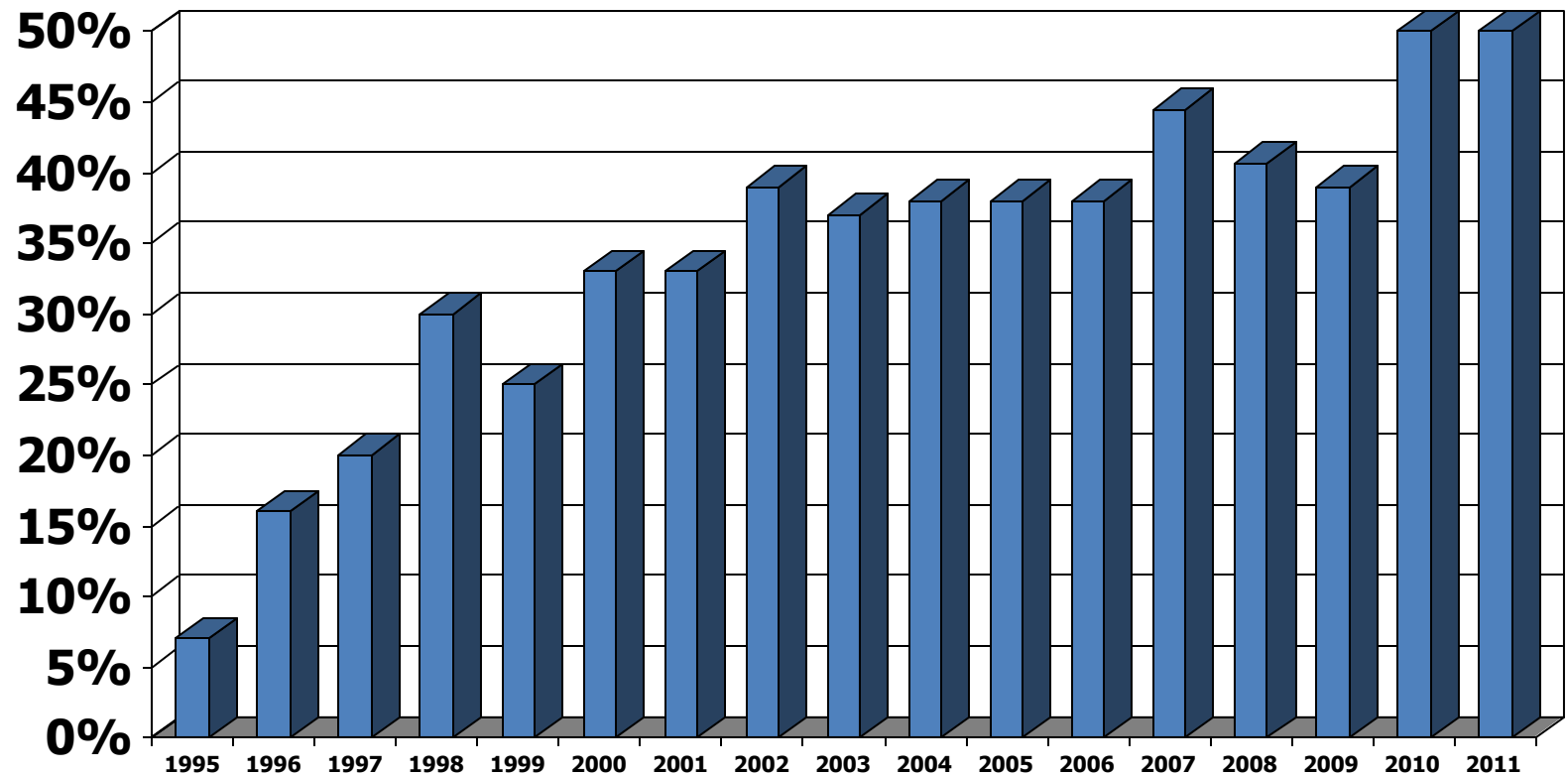
- Special Event and Zero Waste Recycling
- Compost Your Combustibles
- SLT Earth Day Sponsor
- FireFest Sponsor
- School MRF Tours
- South Tahoe Environmental Education Coalition
- Tire and E-Waste Events





South Tahoe Refuse
& Recycling Services

Recycling Data





South Tahoe Refuse
& Recycling Services

**Don't Trash It...
BLUE BAG IT!**

Curbside Blue Bag Recycling for South
Lake Tahoe residents since 2009

- Weekly pickup, bag provided
- 50% participation by Tahoe-Douglas Township customers
- Apartments to be added 2012
- Collected with garbage, sorted separately
- No additional emissions or truck trips
- Incremental increase in recycling

Carson Valley Recycles Pilot Program

- Voluntary Subscription
- Curbside Mixed Recycling
- Pickup every other week

From 2008 to 2010

- Insufficient subscribers
- Poor scrap markets
- Distance from markets
- Fuel costs
- Economic downturn

Comments on Options for Collecting and Processing Recyclables

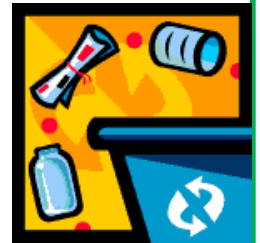
Mixed Waste Processing

- Guaranteed participation
- Effective for both residential and commercial waste streams
- Single truck pickup, reduced emissions and costs
- Compatible with existing equipment
- Handles weather and wildlife issues
- Disconnect with customers



Single Stream Processing

- Customer friendly
- Positive perception
- Cleaner sort
- Reduced risk exposure
- Efficient use of labor
- Cart system compatible
- Additional trucks, drivers and carts
- Increased customer rates



Increasing Recycling Services In Carson Valley

Potential Solutions

- Countywide, including towns and GIDs
- Integrate into service and rates, not an optional service
- Significant capital investment
- Consider regional collaborations for facilities
- Scrap value of recyclables not sufficient to cover program costs
- Survey residents and/or elected officials



Support for Recycling Programs



“Bottle Bill”: financial support for sustainable programs

- Develop regional markets and reprocessors, creating jobs and reducing transportation impacts
- Support local composting facilities
- Special Event Recycling & Zero Waste Events
- E-Waste Recycling Programs & Events
- Fuels Reduction Projects with Fire Safe Councils
- Waste Tire Management Programs
- Community Cleanup Events and Projects
- Restrict funding for recycling programs and services
- Keep it simple; the less bureaucracy, the better

Sustainability Programs

- Reduced emissions
 - Bio-diesel for on-site equipment
 - Idling policy on-site and off-site
 - Redesigned collection routes
 - Governors on trucks
 - CARB fleet compliance
 - Bike to Work Week – Employee Incentives
- Recycling at all company facilities