



Arlington Facts and Figures

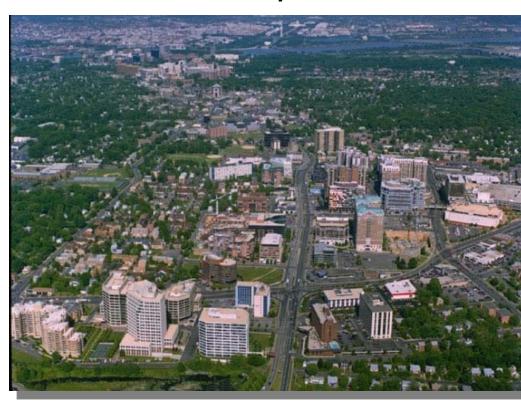
Population of 211,700

- 63% of residents live in apartments or condos served private haulers
- 37% of residents live in single family homes and are served by the County's residential collection program

Waste Generation

- 70% of all waste produced is from commercial and multifamily sectors
- Total refuse = 111,456 tons
- Total recyclables = 90,072tons
- CY 2011 Recycling Rate = 49.7%

Area of 26 square miles



*Data compiled from Arlington, Virginia Profile 2012 and CY2011 Recycling Rate Report



Overview of Solid Waste Management Plan

- 20-Year Solid Waste Management Plan
- Adopted in June of 2004 by our Board
- Guide for the future growth of the County's solid waste management system
- Established planning priorities
- Commitment to Waste to Energy
- Established future recycling rate goals
 - 37% by 2014
 - 42% by 2019
 - 47% by 2024



Solid Waste Management Plan Goals

Beyond 5 Years

Table 7-3
Voluntary Program Enhancements, Beyond Five Years:
Implementation Timeframe

Completed/ Addressed		Program Enhancements	FY 10	FY 11	l						FY 22		
710010000		Franchising						 	 	 	 		
		Franchise agreements											
Х	1	Expand HHM program											
		Expand existing program and facilities											
		Study collection for "backdoor" residents and CESQGs											
		Implement collection for "backdoor" residents and CESQGs											
х	2	Waste assessment and tracking											
		Waste tracking system											
		Periodic waste assessments (every 5 years)											
х	3	Education/outreach position											
х	4	Community inspector position											



Residential Curbside Program

32,700 households

Collection program:

Trash

Recycling

E-waste

Metal

Brush

Seasonal yard waste





Importance of Waste Audits

Information & Insights

Focused Education

Programmatic Decisions



What is the Residential Waste Audit?

The residential waste audit is:

- Collecting materials
- Sorting materials
- Analyzing sort
- Publishing findings
- Use results for decisions



ARLINGTON VIRGINIA

Resources

- Collection:
 - -2 hours
 - -5 staff (2 drivers & 3 helpers)
- Sorting/Clean-up:
 - -4 hours
 - -3 staff
- Data Recording/Analysis/Publishing:
 - -6 hours
 - -1 staff





How it Works



ARLINGTON COUNTY, VIRGINIA
Refuse Collection Areas

- 1. Collect: 20 houses per day
 - a) Track set out percentages (trash & recycling)
 - b) Track container fullness
- 2. Sort: the recycling and trash
- 3. Weigh: each material category
- 4. Analyze: the data for insights











Rostes by Day

Collection



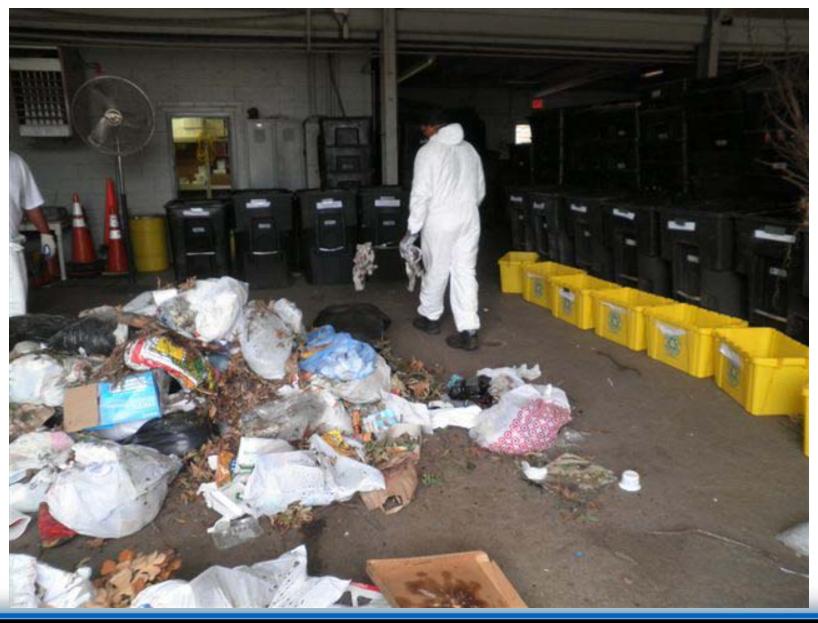












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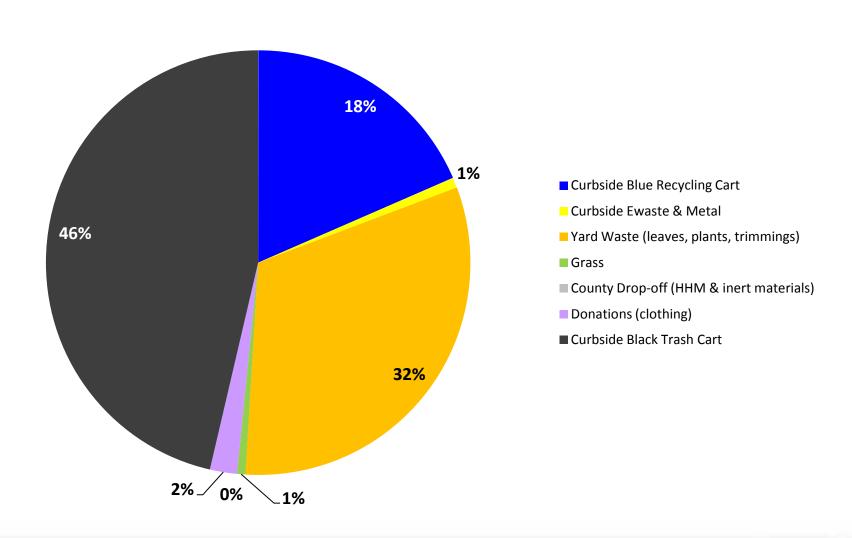
Weighing & Recording





Analyzing Quarterly Results

October 2012 Refuse Cart Audit



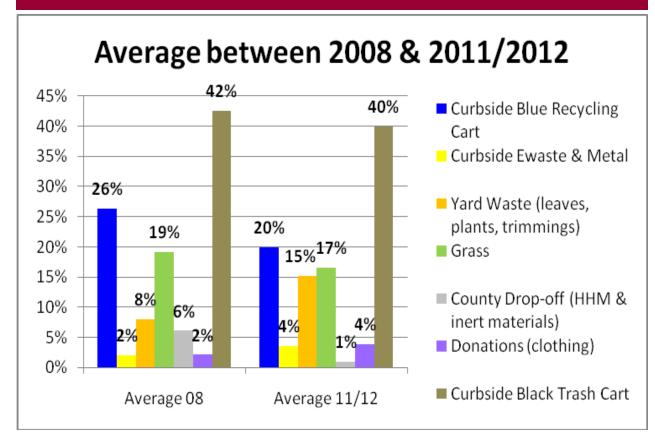


Insights





YEARLY AVERAGE OF THE WASTE AUDIT RESULTS FROM 2008 COMPARED TO 2011/2012*



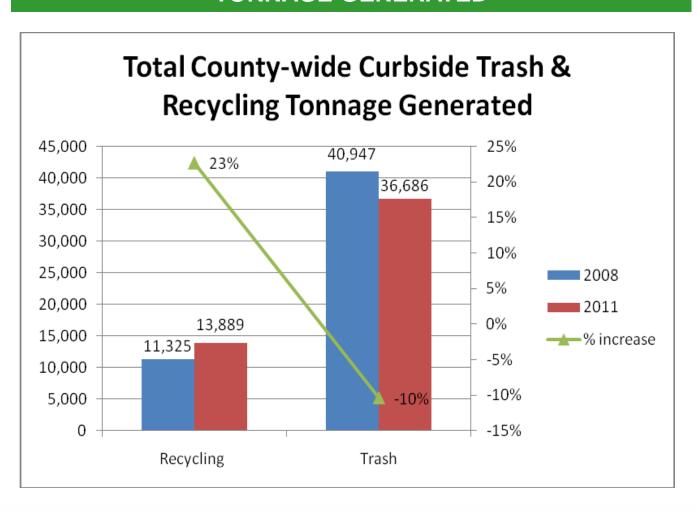
- Education program:
 - Blue cart
 - E-waste
- New program:
 - Yard waste and grass

^{*}Note that 2011 was not a full year of data so the most recent data was used to combine 2011 and 2012.



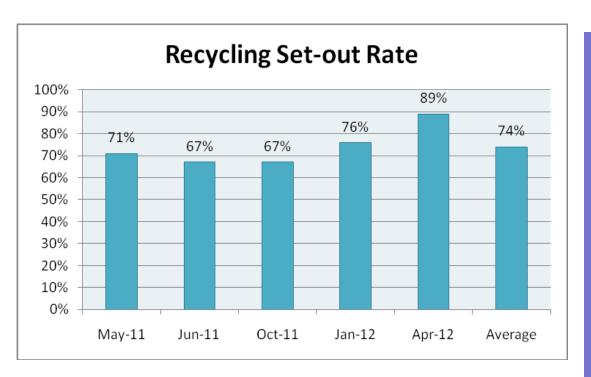
County-wide Trash & Recycling

TOTAL COUNTY-WIDE CURBSIDE TRASH & RECYCLING TONNAGE GENERATED





Blue Recycling Cart Set-Out Rate



- Education program:
 - Benefits of recycling
 - Target education pilot on waste audited homes
- Need residents to put out the recycling cart to increase recycling

Education Outreach



Published 4
 page <u>Guide to</u>
 <u>Services</u> in
 County's Citizen
 Newsletter with
 focus on
 recycling.

TRASH & RECYCLING

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GUIDE TO SERVICES

What You Need to Know About Trash & Recycling

This trash and recycling guide has all the information you will need to use Arlington's trash and recycling services through the year. It includes a quick reference list with helpful phone numbers and drop-off locations and a seasonal calendar of special services, including yard waste and leaf collection.

Arlington County is serious about customer service and our natural resources. Over the years, we have upgraded our recycling program to a no-sort, single stream initiative with larger wheeled carts to make recycling even easier. Additionally, the Solid Waste team has expanded its offerings beyond traditional curbside pick-up to include many other convenient services to help you safely dispose of trash and reduce, reuse and recycle.

- Reliable, weekly curbside recycling and trash collection
- Scrap metal, electronics and yard
 waste pick, up

Leaf Collection

Arlington County collects about 50,000 cubic yard of leaves

every year. Long before the first leaf falls, staff analyzes historic data, tree types and density, weather forecasts, state forestry forecasts, and resident feedback to develop the leaf collection schedule. This helps better allocate collection resources and serve neighborhoods when fallen leaves are heaviest. Arlington picks up leaves by vacuum and in biodegradable bags.

The bag collection program provides

need their leaves removed during times

we are not scheduled to vacuum leaves.

convenient weekly service and adds additional flexibility for residents who

Leaf Collection Requirements

collection BEFORE the published

hanging wires or near parked cars.

Learn more at www.arlingtonva.us;

· Place leaves out for vacuum

collection date ONLY.

It is a fire hazard.

cart hanger.

· Do NOT park on leaf piles.

· Do NOT put leaves under low

search "leaf collection" or watch

your trash cart for an informational

- Two convenient recycling drop-off centers
- A monthly, secure paper shredding service
- A safe, convenient hazardous materials drop-off facility
- Biannual recycling events for electronics and hazmat items
- Street sweeping to protect our rivers and streams
- Free wood and leaf mulch for resident pick-up
- Leaf Season and Spring Yard Waste

Thanks to your commitment and activities to participation in these programs, Arlington's recycling rate is 48 percent among single family homes and 30 percent in multifamily and commercial buildings. Our rates are among the highest in the region, but we know you can recycle even more. We hope this guide will provide all the information you need to continue to recycle.

Mulch – How to Use It, How to Get It

Autumn is a great time of year for yard work. Mulch protects plants by:

- Helping the soil retain moisture
- Suppressing weeds that steal plant nutrients
- Insulating root growth from the extreme temperatures

Tips for Gardening with Mulch

- Rake one to three inches of wood or leaf mulch evenly around your plantings
- Keep the mulch six inches from the base of trees and bushes
- base of trees and bushes
 Do NOT place wood mulch up against

Mulch Delivery: Call 703-228-6570 to request mulch delivery service for a fee, or go to www.arlingtonva.us; search "mulch delivery."



Pree Mulch Pick-up: Mulch is a stailable for free at the 26th Street leaf storage site across from Marymount University and at the Solid Waste Bureau at 4300 29th Street South. And did you know our mulch is certified by the U.S. Composting Council? ■

Christmas Tree Collection



Collected weekly the day after trash day
 Bags available at multiple locations in

the County. Check online or on your leaf season cart hanger for locations and times.

 Always use paper biodegradable bags. NO PLASTIC

Leaf Collection Snapshot

Bag Collection - Begins Oct. 31

Vacuum Collection - Begins Nov. 14

- Two passes for each civic association
 Neighborhood signs posted 3-7 days
- Sign up for Arlington Leaf Schedule at

 Sign up for Arlington Leaf Schedule at www.arlingtonva.us/subscribe to find out where the trucks are heading. every January, Arlington collects
approximately 10,000 Christmas
trees and turns them into mulch for use
around the County.
Residents can place trees at the

curb on their scheduled trash day for pick-up. If you don't have curbside service, bring your tree on the first Saturday of the month to the Solid Waste Bureau at the Trades Center, 4300–29th Street South, or schedule a drop-off appointment by calling 703-228-6570.

Christmas Trees will be collected on residents' regular trash day, Jan. 3-16 2012. Before you bring your tree to the curb or the Trades Center, remember:

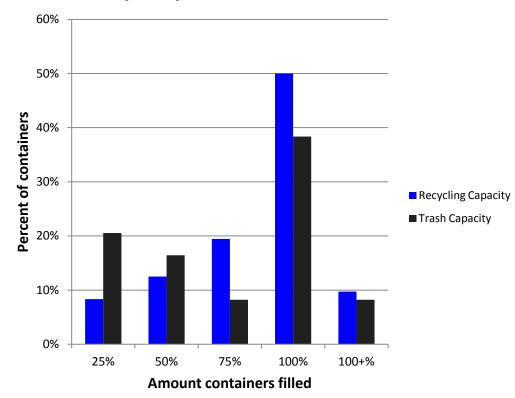
- Remove the tree stand and decorations
- Do NOT put the tree in a disposable bag
- Place your tree curbside before
 7 a.m. on your collection day



October 2012 Results of the Cart Fullness

- 50% of recycling carts are full
- 38% of trash carts are full

October 2012 Capacity of Containers Collected



Education Outreach



- Citizen newsletter
- **Email to list serves**
- Promoted through social media- Facebook/Twitter
- Website



Maximizing space in your

recycling cart

TRASH & RECYCLING











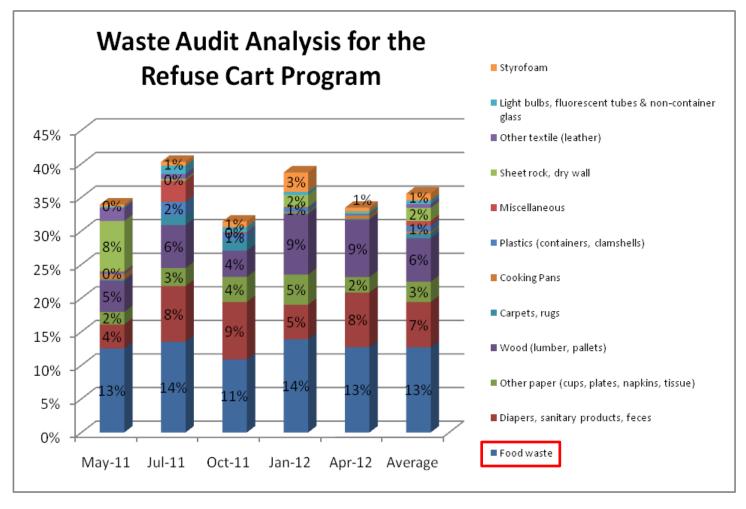








Refuse Cart: Actual Refuse Components



- 13% of the trash is food waste
- New program:
 - Year-round organics collection



Food Waste Program

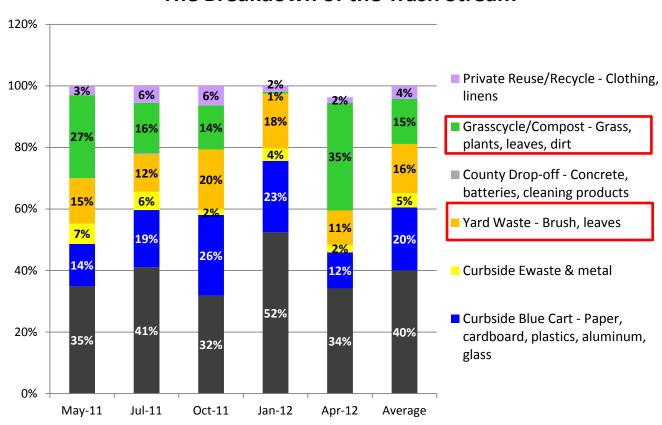
 Evaluate economic feasibility to expand detention center food waste program to other county facilities.

 Monitor marketplace for additional processing facilities to come into region.



Reuse & Recycling Potential

2011 & 2012 Waste Audit Results The Breakdown of the Trash Stream



- 21% of the trash is yard waste & grass
- New program:
 - Year-round yard waste collection

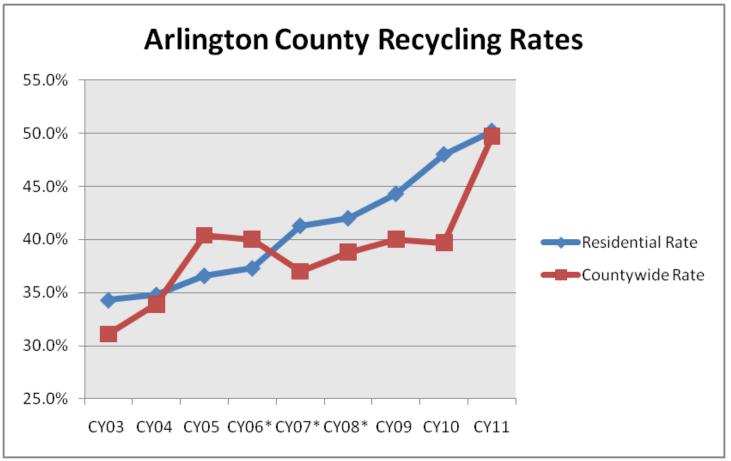
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Year Round Yard Waste Program

- Analyze the refuse collection market to obtain a better understanding of the developing yard waste infrastructure in the area.
- Develop comprehensive Request For Proposal (RFP) that addresses refuse collection and yard waste management.
- Obtain community feedback about new program.
- Implement program enhancements and possible increased costs with budget cycle.
- Recommend code changes banning grass from waste stream.



Arlington County Recycling Rates



Upward trend for:

- Residential recycling rate
- County-wide recycling rate



Commercial/Multi-Family Waste Audit

Mixed Results

Property Type	Recycling Rate	Recycling Rate Potential
Multi-Family Apartment	5.3%	42.9%
Multi-Family Condominium	31.2%	50.7%
Commercial without food service	8.6%	40.7%
Commercial with food service	45.9%	58.23%

Action Items





Improve Convenience:

 Co-locate all trash and recycling containers for staff and tenants

Improve Education:

- Use audit information to provide better education to properties on inspection visits
- Provide properties with insights into the economic benefits of recycling more and throwing away less

Conduct Another Audit in One Year

Measure the progress and use as examples for other properties



Conclusion



Waste audit benefits:

- Identify waste trends
- Understand the seasonality of waste
- Provide insights into new programs
- Improve use of existing programs
- Focus education
- Right size carts

Next steps:

- Waste audits in county facilities and schools
- Continue quarterly waste audits in residential program





Thank You

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