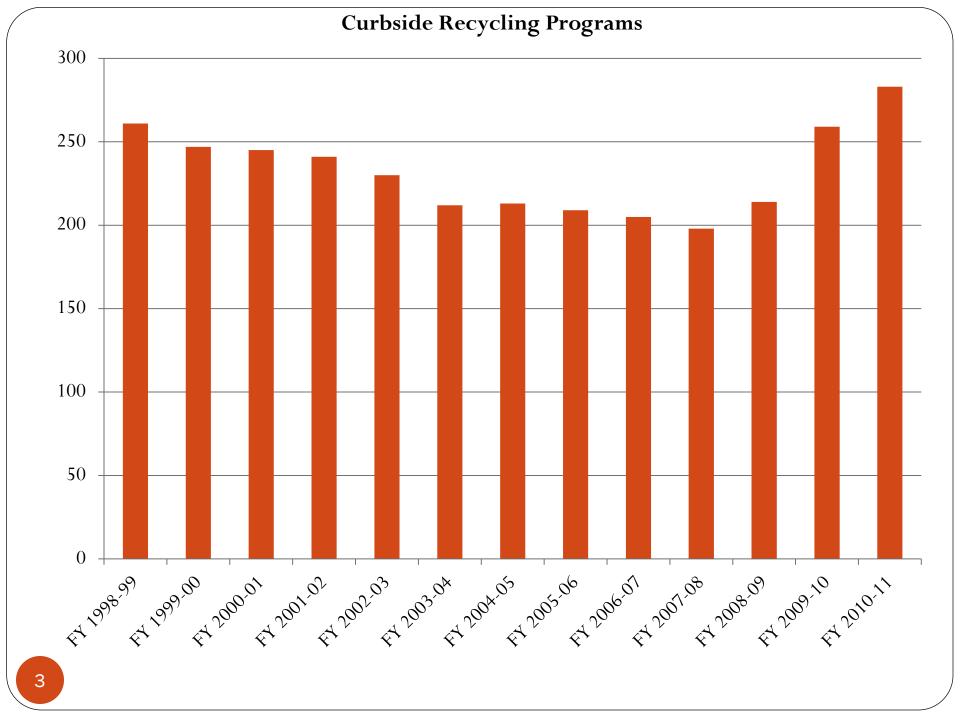
Solid Waste Management Annual Report: Recycling

Scott Mouw

NC Division of Environmental Assistance & Outreach

Recycling Trends in North Carolina

- Positive growth in recycling programs and recycling tonnage.
- Disposal bans helping increase material recovery.
- Breakthroughs in the recycling of new materials.
- Recycling contributing to job and business growth.
- Recycled materials essential to NC manufacturers.



Curbside - Transition to Carts

Many major cities now using carts:

Greensboro Charlotte

Fayetteville Durham

High Point Jacksonville

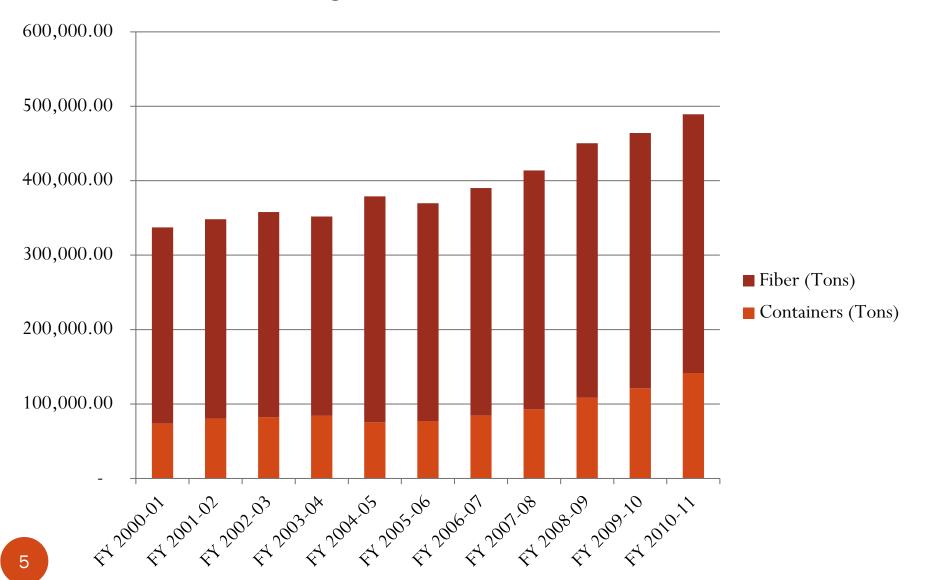
Raleigh Winston-Salem

 New small and medium sized town programs starting with carts.

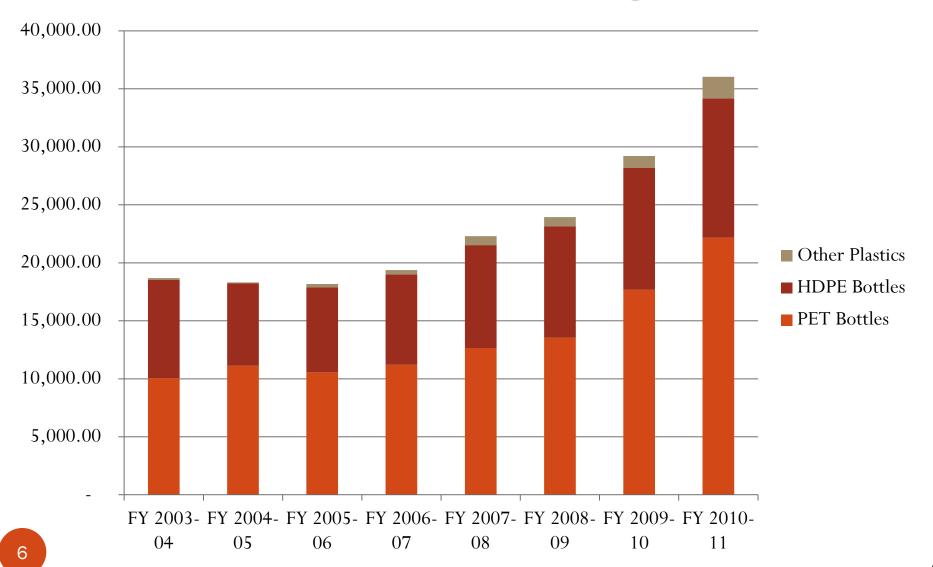


- Estimated total # of households who received a cart in 2011:
 - 400,000
 - 12,000,000 gallons of additional household recycling capacity
- Cart trend will continue to grow.

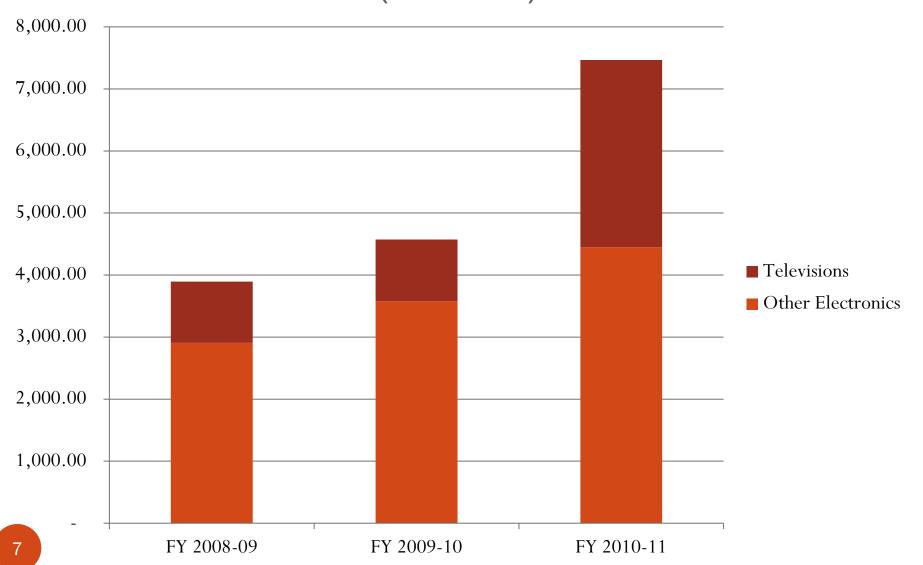
Recovery of Paper and Container Materials by NC Local Governments



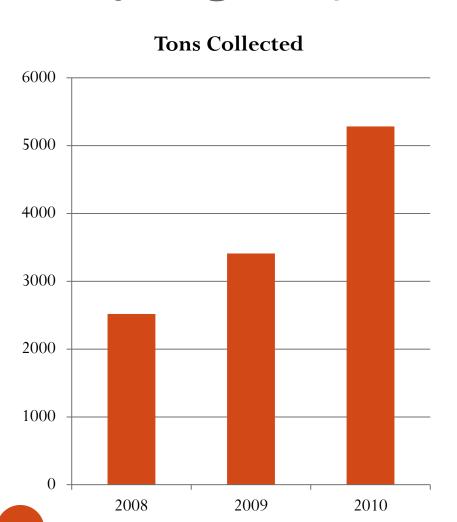
Recovery of Plastic Bottles in NC by Local Government Programs

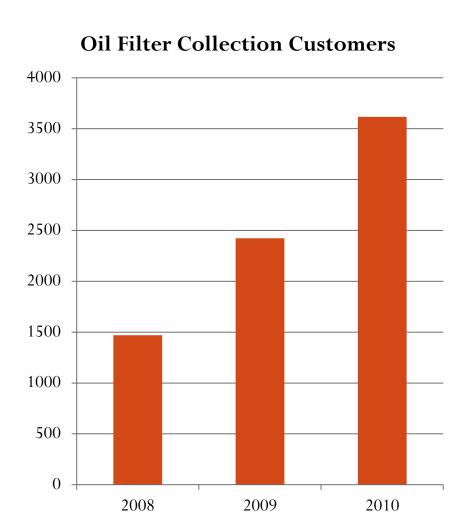


Local Government Electronics Collection (in tons)



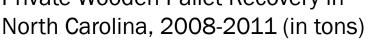
Effects of Oil Filter Disposal Ban for Filter Recycling Companies



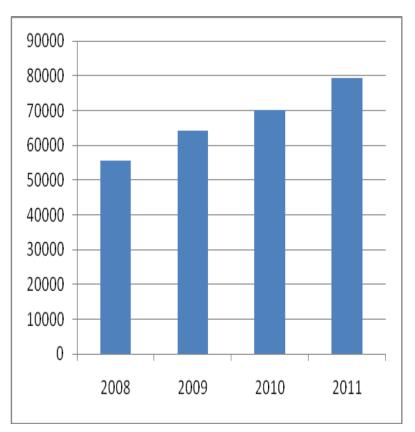


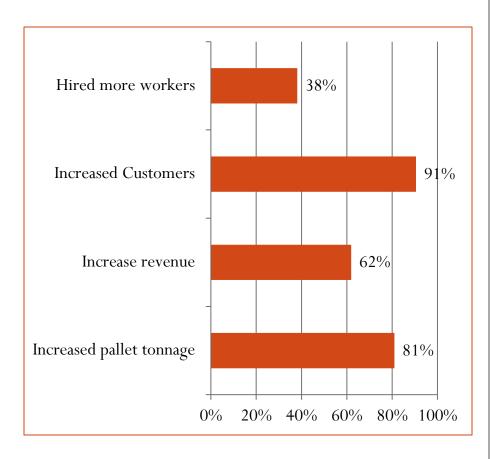
Effects of Pallet Disposal Ban: Pallet Recyclers

Private Wooden Pallet Recovery in









Over half of pallet recyclers said the disposal ban helped their business grow.

Construction & Demolition Waste

and Organics Recycling

- Increasing interest and activity in C&D recycling, despite construction economy amount of tonnage recycled at C&D landfills has doubled since 2005.
- Main challenge: relatively low market value for some C&D materials.









 Growth in commercial composting facilities.

Separated food waste collection still at small scale but expanding

Shingle Recycling

- Early adopters: Greenville Paving and Pitt County
- Regulatory issues resolved.
- Oil prices helping increase interest and improve economics of shingle recycling.
- Many asphalt paving companies now scrambling to source materials.
- Approximately 264,000 tons in potential diversion; estimated currently at 40,000 tons.

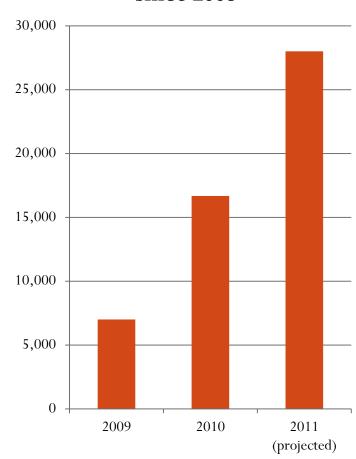




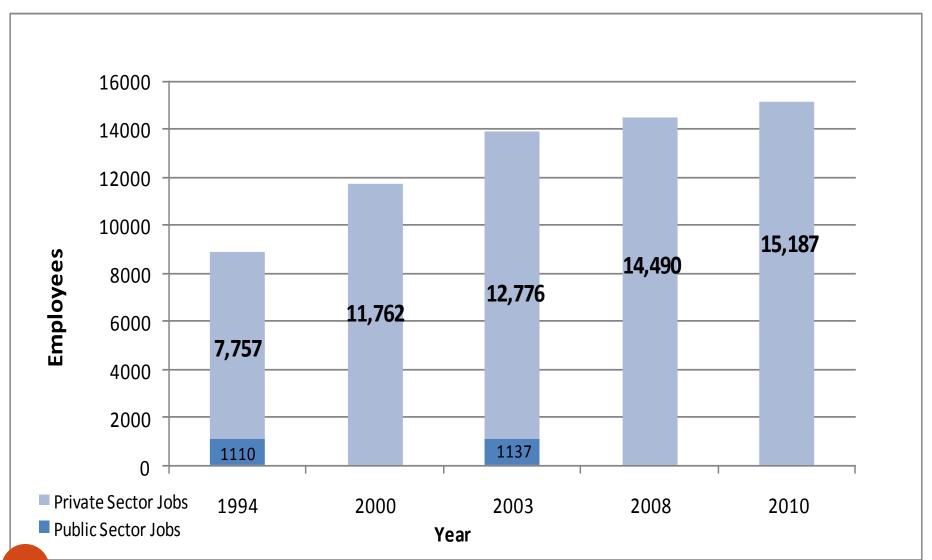
Independent Recycling Haulers

- Small haulers and new recycling start-ups playing an increasing role in material collection:
 - ABC customers
 - Other commercial customers
 - Unincorporated residences
- Examples:
 - Green Pieces, Stanly County area
 130 to 2290 customers in four years.
 - Hatters Recycling, Dare County
 335 to 1100 customers

Change in # of customers since 2008



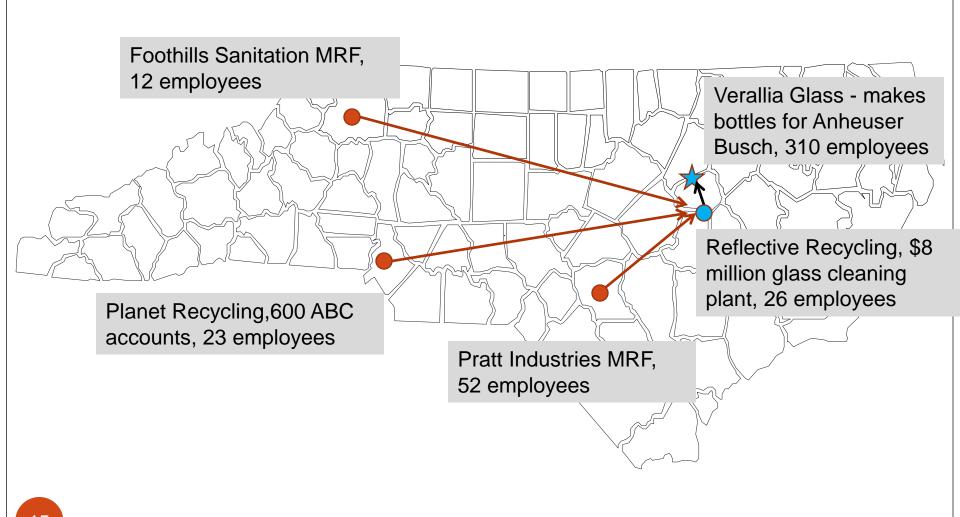
NC Recycling Employment Trends



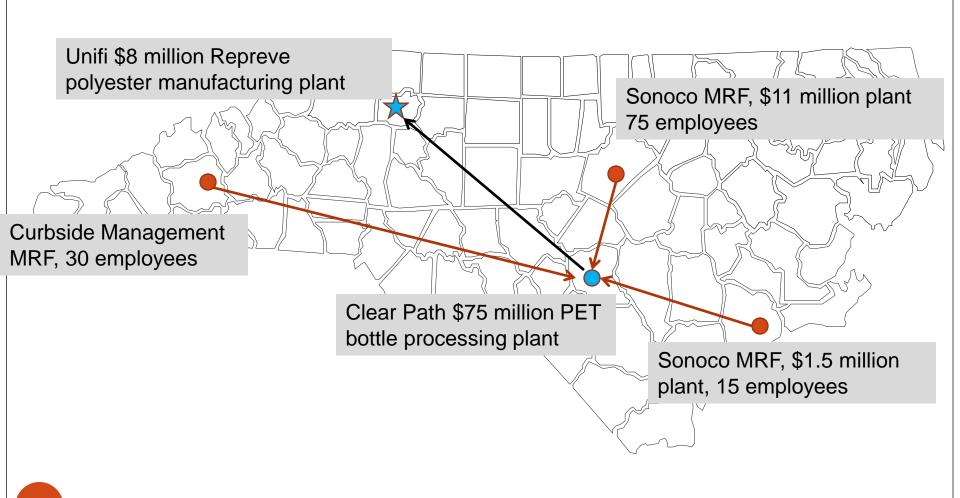
Examples of Recycling Economic Development in NC in 2011

- Electronics Recycling International: announcement of new electronics recycling facility in Badin with projected 150 jobs.
- Synergy: completion of \$30 million electronics processing facility in Madison.
- McGill Environmental: \$2 million upgrade of composting facility in Sanford.
- New material recovery facilities (MRFs) built by Sonoco (Charlotte), North Davidson Sanitation (Welcome), Benfield Sanitation (Mooresville), and American Recycling (Candler)
- Reflective Recycling: new \$8 million glass processing facility in Wilson,
 NC
- Unifi: new \$8 million textile manufacturing facility converting plastic bottle plastic into polyester in Yadkinville.

Examples of Recycled Glass Movement in NC



Examples of Recycled PET Movement in NC



Questions?

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