

NORTH CAROLINA PUBLIC COMMUNITY COLLEGE & UNIVERSITY ANNUAL RECYCLING REPORT

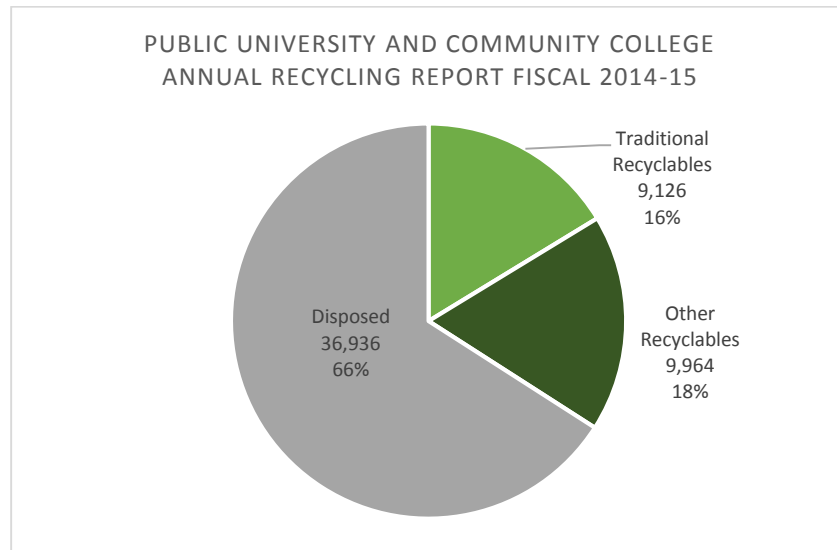
JULY 1, 2014 – JUNE 30, 2015

North Carolina Department of Environmental Quality
Division of Environmental Assistance and Customer Service
1639 Mail Service Center
Raleigh, NC 27699-1639



EXECUTIVE SUMMARY

This report presents a summary of data on recycling programs at public universities and community colleges in North Carolina for fiscal 2014-15. Sixty-one public universities and community colleges responded to a survey from the N.C. Division of Environmental Assistance and Customer Service (DEACS) asking detailed questions about their recycling and solid waste management activities. The survey information shows that the institutions managed a total of 56,026 tons of material during the course of the year, of which 19,090 tons (34 percent) was recycled and 36,936 tons (66 percent) was disposed of in landfills.



Materials recycled during fiscal 2014-15 were split closely between traditional recyclables (cans, bottles and paper) and other recyclables, which include materials such as automotive fluids, food waste, yard and wood waste, electronics, and construction and demolition debris.

While every reporting school has a program in place to collect at least a portion of traditional recyclables, many schools have the opportunity to expand and improve their traditional recycling collection programs. The following best management practices have been adopted by some universities and community colleges to improve the quality of material, increase participation and streamline operations:

- Twenty-seven schools collect traditional recyclables in a commingled program (single recycling bin for cans, bottles, and paper), which yields increased participation rates and more efficient collection.
- Fifty-three schools collect traditional recyclables from public spaces around campus (areas outside of classrooms and office buildings).
- Seventeen schools have gone a step further and paired all trash and recycling bins together, or “twinned the bin,” across campus.
- Twenty-one schools have conducted solid waste assessments to analyze the composition of disposed waste and better understand where additional diversion can be achieved.

Apart from traditional recyclables, universities and community colleges are making progress in diverting other materials through source reduction, reuse, donation and recycling. All state agencies are required to recycle motor oil and filters, antifreeze, lead acid batteries, fluorescent bulbs, scrap metal, and computers and electronic waste through the N.C. Department of Administration’s contracts or State Surplus Office. An emerging priority for many schools is the reduction of food waste going to the landfill. During fiscal 2014-15, 16 schools reported food donation or composting programs which resulted in the diversion of 1,967 tons of food waste.

EXECUTIVE SUMMARY

Many survey respondents reported active and evolving waste reduction and recycling efforts while others continue to operate static programs that are seldom evaluated or expanded. All agencies are encouraged to continually monitor their programs to understand their waste stream and determine how it can best be managed. This often requires ongoing conversations with haulers or processors to obtain data, but the extra effort will help to make informed program decisions, quantify program costs and savings and measure progress over time.

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INTRODUCTION

State agencies are required by N.C. General Statute 130A-309.14 to recycle office paper, newspaper, aluminum cans, and glass and plastic bottles. State agencies are also required to recycle fluorescent bulbs and must comply with statewide landfill bans which prohibit the disposal of the following materials in landfills: used oil and oil filters, antifreeze, yard trash, wooden pallets, tires, lead acid batteries, plastic bottles, aluminum cans, televisions and computer equipment.

The N.C. Division of Environmental Assistance and Customer Service (DEACS) did not conduct an annual state agency recycling report for fiscal 2013-14 but has now resumed the annual report process for public community colleges and universities. Sixty-one agencies reported data, which constitutes more than 80 percent of public collegiate entities.

Overall results are provided in the following sections, and individual agency responses are provided in Appendix 1.

A list of reporting agencies is included below. DEACS would like to thank these agencies for completing and submitting the annual recycling report. While the N.C. General Statute reporting requirement was repealed in 2010, DEACS believes that there is value in continuing the reporting process on a voluntary basis and encourages all state agencies to collect data and track progress on their solid waste programs, costs and diversion efforts.

FISCAL 2014-15 REPORTING COMMUNITY COLLEGES AND UNIVERSITIES

Alamance Community College	Nash Community College
Appalachian State University	N.C. Central University
Asheville-Buncombe Technical Community College	N.C. State University
Beaufort County Community College	Pamlico Community College
Bladen Community College	Pitt Community College
Blue Ridge Community College	Randolph Community College
Brunswick Community College	Richmond Community College
Caldwell Community College & Technical Institute	Roanoke-Chowan Community College
Carteret Community College	Rockingham Community College
Catawba Valley Community College	Sampson Community College
Central Carolina Community College	Sandhills Community College
Central Piedmont Community College	South Piedmont Community College
College of the Albemarle	Southeastern Community College
Craven Community College	Southwestern Community College
Davidson Community College	Stanly Community College
Durham Technical Community College	Surry Community College
East Carolina University	Tri-County Community College
Edgecombe Community College	UNC-Asheville
Elizabeth City State University	UNC-Chapel Hill
Fayetteville State University	UNC-Charlotte
Fayetteville Technical Community College	UNC-Greensboro
Forsyth Technical Community College	UNC-Pembroke
Gaston College	UNC-School of the Arts
Guilford Technical Community College	Wake Technical Community College
Halifax Community College	Wayne Community College
Isothermal Community College	Western Carolina University
James Sprunt Community College	Western Piedmont Community College
Lenoir Community College	Wilkes Community College
Martin Community College	Wilson Community College
Mayland Community College	Winston-Salem State University
Montgomery Community College	

INTRODUCTION

FISCAL 2014-15 NON-REPORTING COMMUNITY COLLEGES AND UNIVERSITIES

Cape Fear Community College
Cleveland Community College
Coastal Carolina Community College
Haywood Community College
Johnston Community College
McDowell Technical Community College
Mitchell Community College

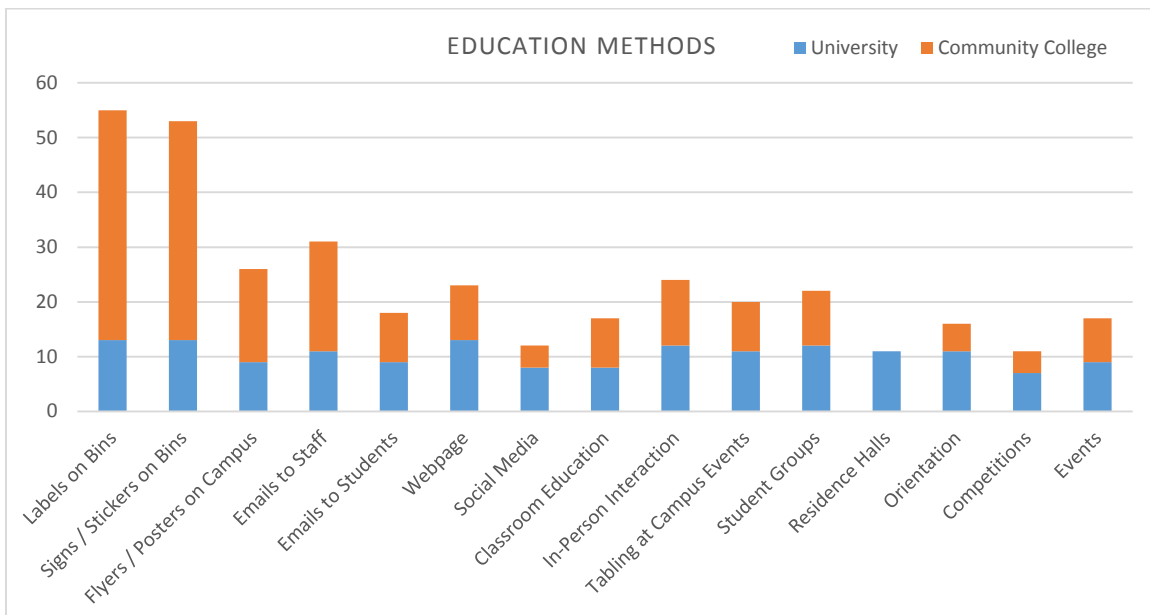
N.C. A&T State University
Piedmont Community College
Robeson Community College
Rowan-Cabarrus Community College
UNC-Wilmington
Vance-Granville Community College

1 - EDUCATION & OUTREACH

1.1 – EDUCATION METHODS

Survey Question: Please identify all methods your agency uses to educate and promote waste diversion and recycling.

Effective communication about recycling to students, faculty, staff and the visiting public is essential to ensure the success of a recycling program. Making efforts to continually educate the primary users of the recycling collection program (faculty, staff and students) can help boost recycling participation, reduce contamination and instill behavioral habits to carry forward even after faculty, staff and students leave campus. The graphs below show the number of colleges and universities that reported using the listed types of education methods.



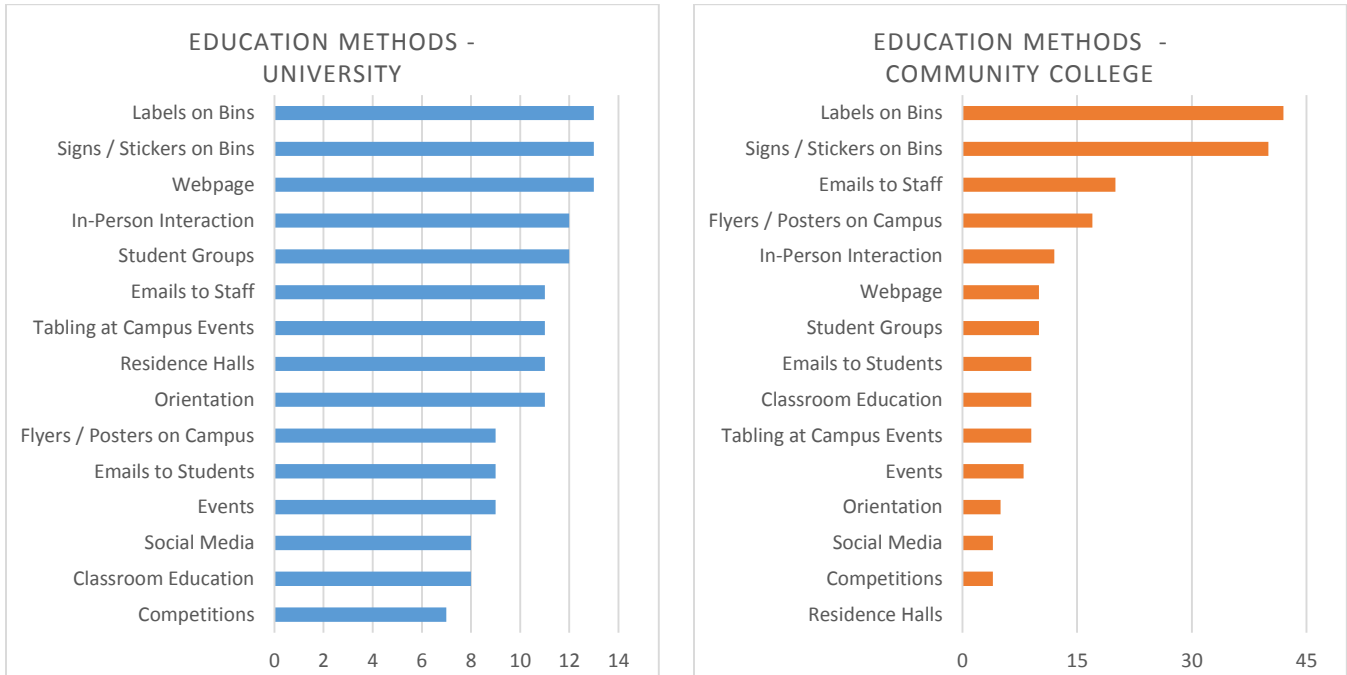
The most commonly used education method is providing information directly on or at the recycling bin. All 14 reporting universities and 45 of the 47 reporting community colleges indicated using some type of education at the bin, either by labeling bins or placing signs/stickers on or around bins.

Beyond education at the bin, schools can use a number of other education methods, most of which are low-cost or no-cost strategies. Universities use an average of nine additional methods to educate staff and students about recycling programs. The most common educational methods include dedicated recycling webpages, in-person interactions and student groups. East Carolina University and N.C. State University reported using all 15 education methods listed.

1 - EDUCATION & OUTREACH

Community colleges use an average of two outreach methods in addition to education at the bin. The most common methods are email newsletters to staff, flyers or posters around campus and in-person interactions. Halifax, Surry and Wilson Community Colleges have active educational programs, each reporting 11 education methods used on campus.

Individual agency responses to each survey question are provided in Appendix 1.

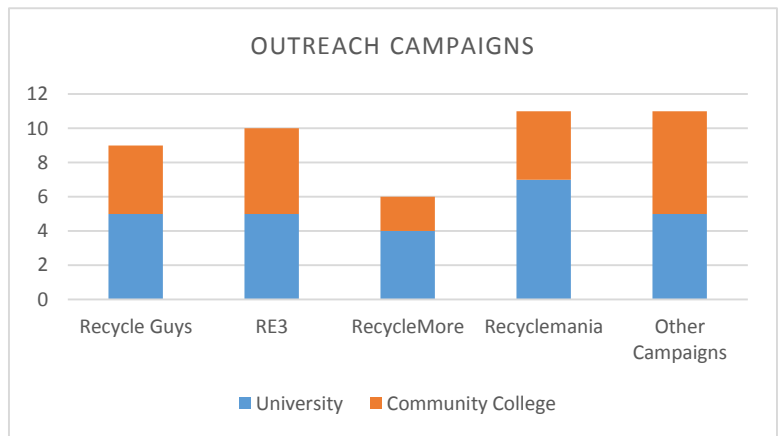


1.2 - OUTREACH CAMPAIGNS

Survey Question: Do you use any of the following outreach campaign materials? Materials include logos, stickers, commercials, posters, t-shirts, key chains and handouts.

Schools may also take advantage of recycling outreach campaigns that offer free promotional items or information. Recycle Guys, RE3 and RecycleMore are statewide social marketing campaigns offered by DEACS. Recyclemania is an eight-week national competition held each spring to encourage colleges and universities to benchmark and improve efforts to reduce or eliminate waste.

Twelve universities and 11 community colleges reported using outreach campaigns to promote recycling on campus. The most used outreach campaigns are Recyclemania, RE3 and "Other Campaigns," which include school-specific logos, student-created campaigns, promotional materials from private vendors and America Recycles Day promotions.



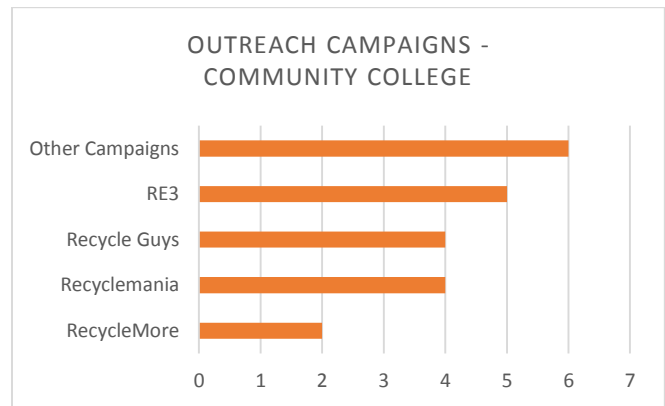
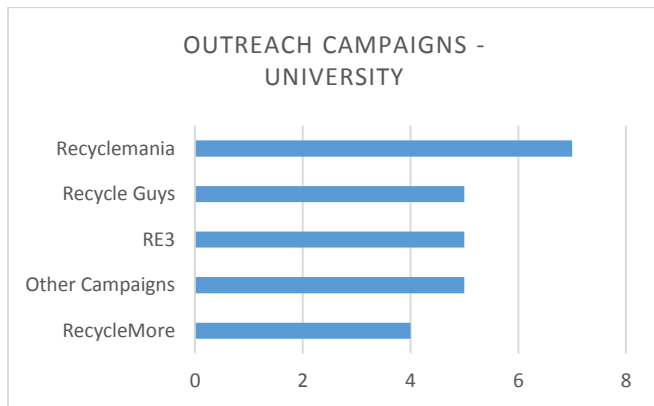
1 - EDUCATION & OUTREACH

DEACS maintains a website for each of the three social marketing outreach campaigns: [Recycle Guys](#), [RE3](#) and [RecycleMore](#). RecycleMore is North Carolina’s newest outreach campaign and was developed in 2010. While it is the least used campaign by university and community colleges, the RecycleMore website includes a number of free resources available for state agencies to use:

- Signs and posters available for free download and printing at: <http://www.recyclomorenc.org/artwork.html>
- Best practices for recycling in public spaces, which are at: <http://www.recyclomorenc.org/onthego.html>
- Free promotion items such as stickers, keychains and posters that can be ordered using the Material Request Form at: <http://www.recyclomorenc.org/coordinators.html>



As shown in the graphs below, the annual Recyclemania competition is most popular with universities while more community colleges use “Other Campaigns” that are often more localized.

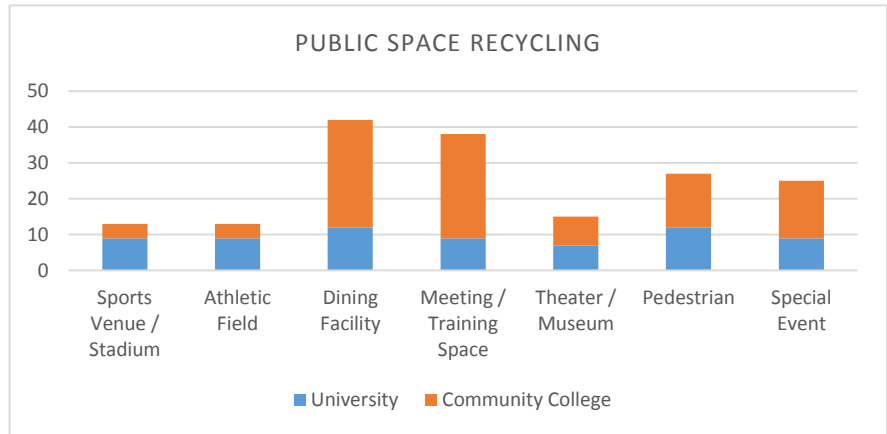


2 - RECYCLING PROGRAMS

2.1 - PUBLIC SPACE RECYCLING

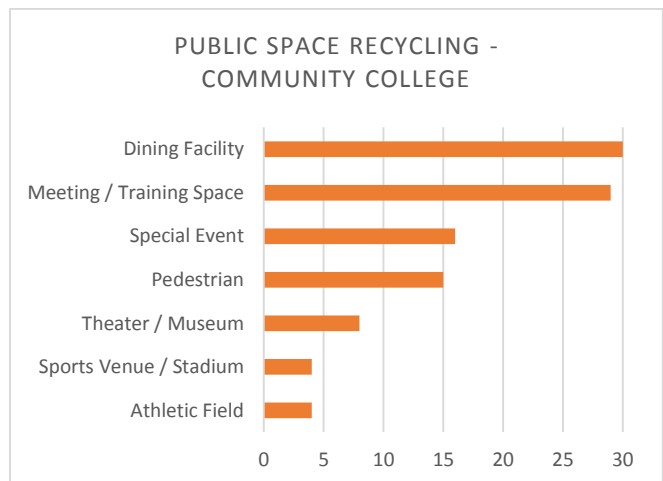
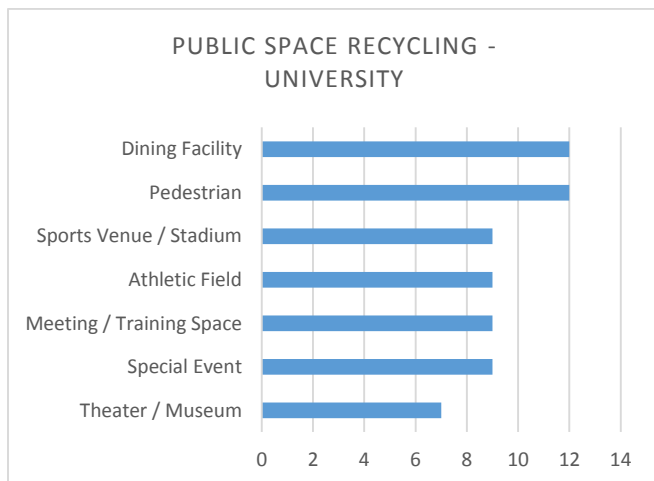
Survey Question: Please identify all public space recycling programs operated by your agency.

Colleges and universities have a wide variety of public spaces. While trash cans are typically stationed across campus, recycling is sometimes an afterthought and not as universally accessible. Schools are encouraged to provide recycling opportunities beyond classroom and office buildings so that students, faculty, staff and members of the public always have the opportunity to recycle no matter where they are on campus. As discussed in the next section, a recycling bin should ideally be placed at every location where a trash can is present. This provides consistency across campus, makes recycling convenient and promotes the message that recycling is important.



Twelve universities and 41 community colleges offer recycling in at least one of the public spaces listed. As shown in the graphs below, the most common public space recycling infrastructure at universities is at dining facilities and along pedestrian areas (e.g., bins along sidewalks, in parking lots, between buildings). Recycling bins are more common at community colleges in dining facilities and meeting/training spaces.

Transportable event containers for both trash, recycling and compost (if applicable) can be used for events and meetings on campus, and some schools choose to use event containers for recycling collection in athletic venues where plastic water and sports drink bottles are generated. Surry Community College has seen success with the addition of permanent recycling containers in their gym, capturing recyclables from volleyball matches and tournaments and from students who use the gym to work out during winter months. Other community colleges with robust public space recycling programs are Halifax, which offers recycling at all categories listed, and Catawba Valley, which offers recycling at all categories except athletic fields, which may not be applicable. Six universities (Appalachian State, East Carolina, N.C. Central, N.C. State, UNC-Chapel Hill and Western Carolina) offer recycling in all of the public spaces listed.

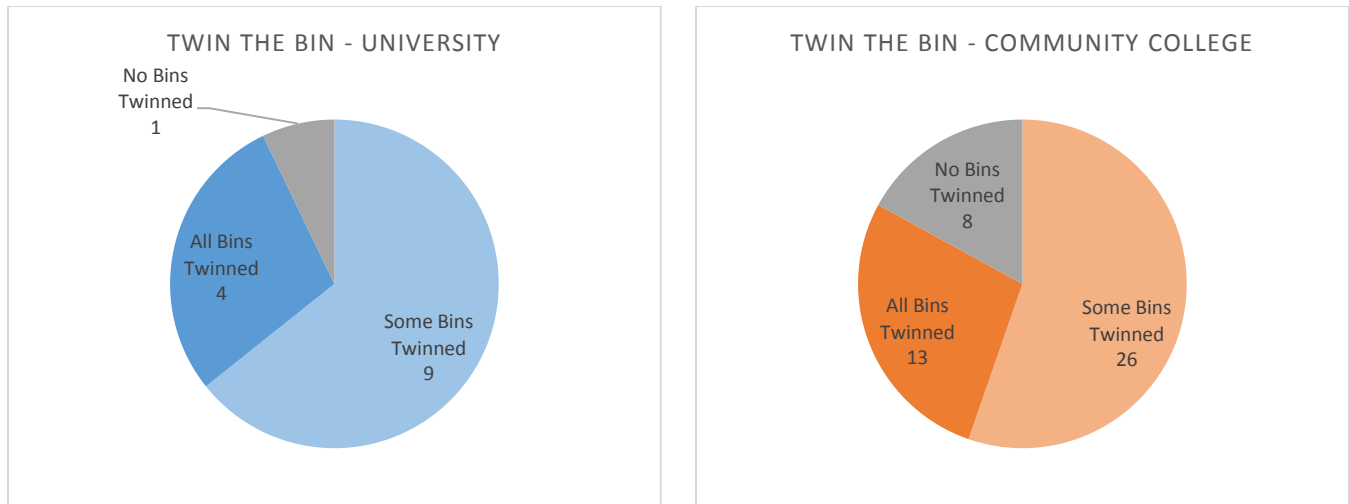


2 - RECYCLING PROGRAMS

2.2 - TWINNED BINS

Survey Question: Are recycling and trash bins twinned (paired together) on campus?

Placing trash and recycling bins together, or “twinning the bin,” is a best management practice that helps increase recycling rates and reduce contamination. Twinning the bin at every location provides a convenient option to recycle and provides a message that recycling is a priority.



Campuses are making progress on twinning trash and recycling containers. Four universities and 13 community colleges reported that all recycling and trash bins are twinned (paired together) on campus. Most reporting agencies (9 universities and 26 community colleges) indicated that some bins are twinned, but not all.

One way to twin bins if budgets are tight is to “de-trash” certain areas of campus, reducing the number of trash cans and converting some of them to recycling. Converting a trash bin to recycling can be done in a number of ways. One of the most effective ways to differentiate is to add a restrictive lid that is labeled and has an opening that is only large enough for a bottle/can or piece of paper to be deposited. Other options include differentiating by color of bins or lids and adding labels and signs. The photos below show some examples of twinned trash and recycling bins. The photo on the left is from Winston Salem State University, where all bins are twinned on campus. The other two photos show examples with alternative bins.

If it is simply not feasible to “twin” every bin on campus, schools are strongly advised against placing a recycling bin by itself as it will likely be used as a trash bin.



2 - RECYCLING PROGRAMS

2.3 - COMPOST

Survey Question: Please identify all composting programs operated by your agency.

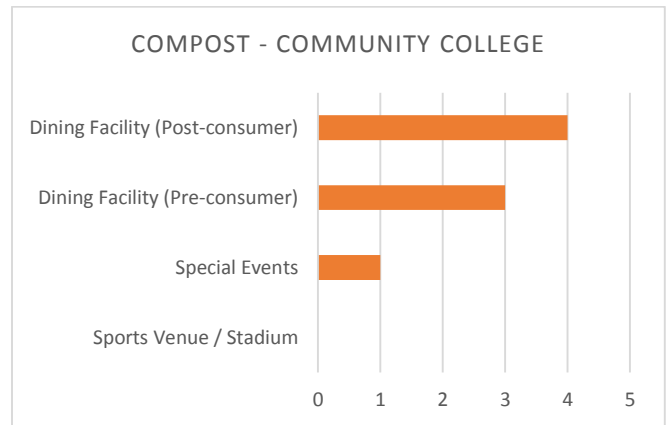
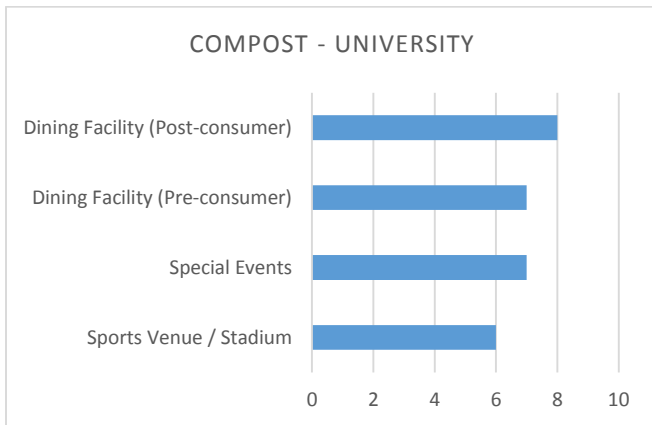
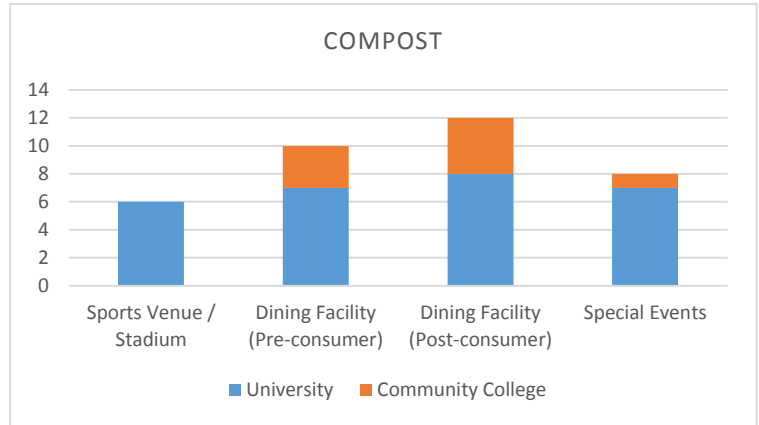
Reducing food waste is an important priority for North Carolina and the nation. The U.S. EPA has recently established a goal of reducing food waste by half by 2030. Public colleges and universities can be leaders in this area and many North Carolina institutions are already active. Nine universities and five community colleges are actively composting food scraps from at least one area on campus.

The most common composting program at both universities and community colleges takes place in dining facilities, with 10 schools operating a pre-consumer (kitchen) composting program and 12 schools operating a post-consumer (dining room) composting program.

Four community colleges reported that culinary programs on campus are also actively composting food scraps. The least common location for a composting program is at sports venues / stadiums. Six universities reported a sports venue composting program; however it is probably not applicable at community colleges unless a snack bar or food vendor is present.

Once collected, compost is typically hauled to a commercial composting facility, although some schools have developed partnerships with horticulture programs for on-site composting.

Although it was not explicitly asked in the annual report, a number of schools indicated that they have programs in place to compost other organic wastes such as landscape trimmings, leaves and grass clippings.

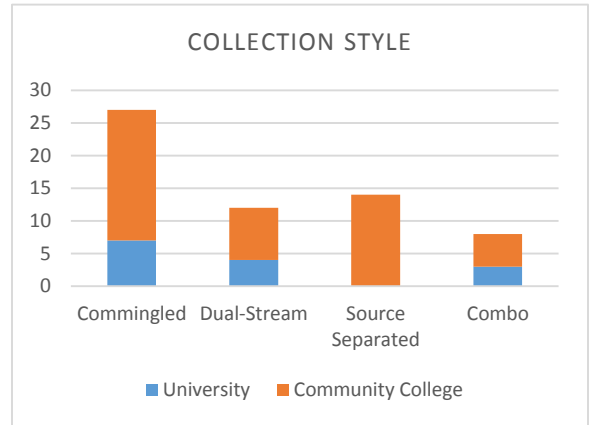


2 - RECYCLING PROGRAMS

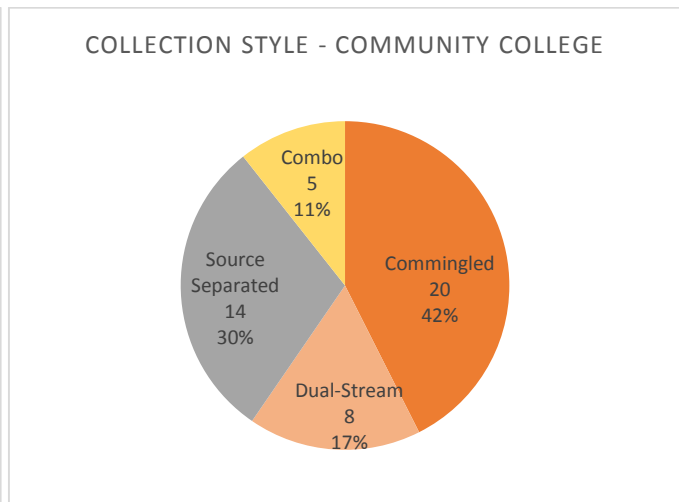
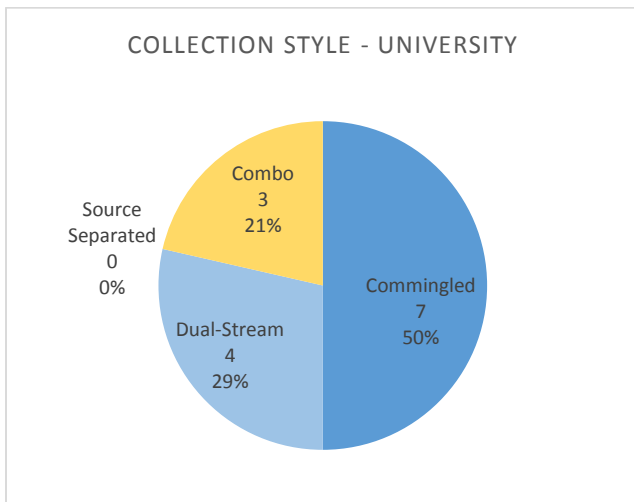
2.4 - RECYCLING COLLECTION STYLE

Survey Question: How do you collect your traditional recyclables (plastic bottles, aluminum cans, steel cans, glass, paper and cardboard)?

A commingled system (single recycling bin for cans, bottles and paper) is the most common collection style for university and community college sectors. Commingled programs have been growing across the state thanks to wider access to Material Recovery Facilities (MRFs) that are able to process mixed materials. These programs have the highest participation rate due to the convenience and the simplicity of the program. Schools that do not currently collect recyclables commingled may want to investigate the possibility of switching to this system. Not only does it boost participation, but it also makes collection more efficient for internal staff (grounds, housekeeping, facilities) and requires fewer containers and less space.



Fourteen community colleges still utilize a source-separated system and collect recyclables in separate containers. None of the reporting universities use this system, having adopted at least some level of commingling. Three universities and five community colleges have a combination of collection styles in different areas/sectors of campus. For example, they may collect dual stream in classrooms and office buildings and commingled elsewhere on campus. If possible, schools are encouraged to use the same collection style across campus, including in public spaces, to keep the program consistent, thereby reducing confusion and possible contamination and making education more simple and straightforward.

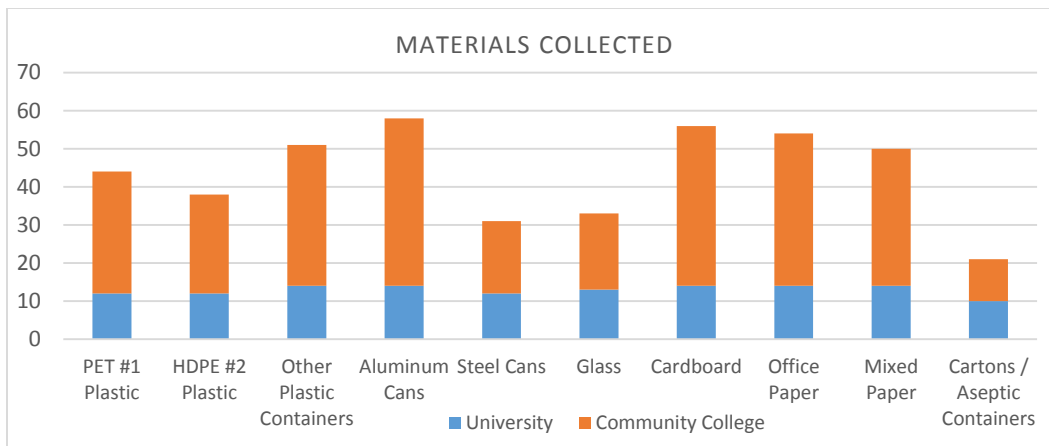


2 - RECYCLING PROGRAMS

2.5 - MATERIALS COLLECTED

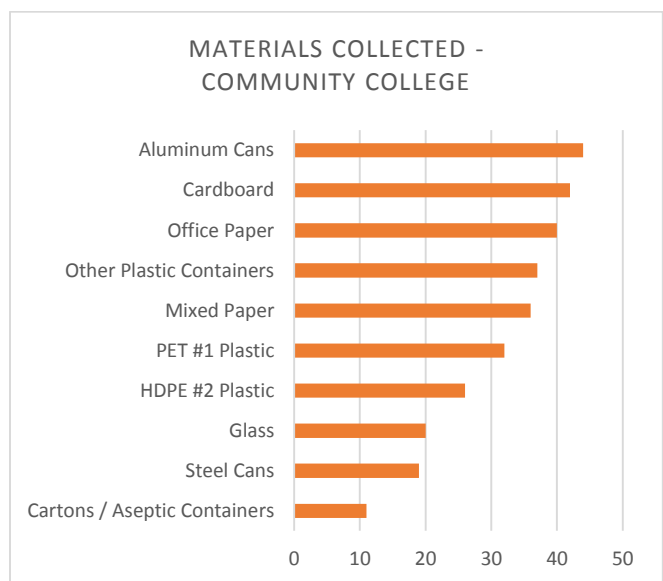
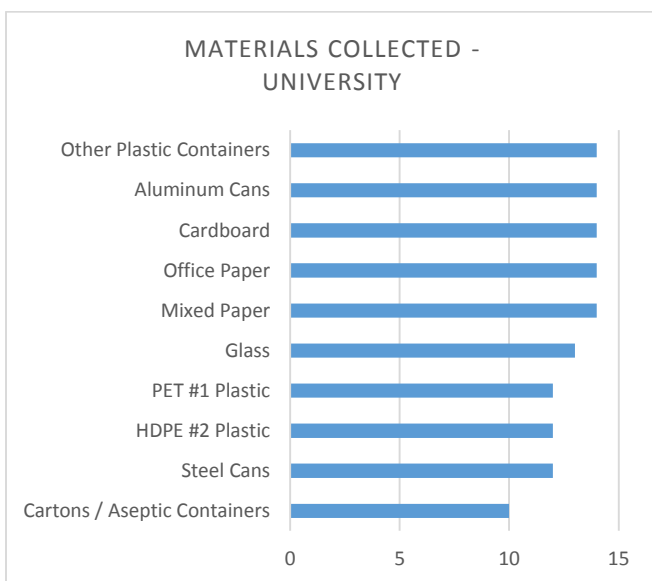
Survey Question: Please select the materials that were accepted in your traditional recycling program for fiscal 2014-15.

Every reporting school collects at least one of the traditional recyclables listed in the graphs below. Many programs have been able to add new materials, thanks to improvements in processing technology and expanding markets. This includes other plastic containers like tubs (i.e., margarine tubs, yogurt cups) and the opportunity to collect all mixed paper together, which may include paperboard (i.e., cereal boxes) and cartons (i.e., juice cartons, soup cartons).



Thirteen universities and 19 community colleges meet the requirements of N.C. General Statute 130A-309.14 by having a recycling program for aluminum, newspaper, office paper, glass and plastic bottles. The commodity missing from nearly half of reported programs is glass, which is likely generated in low volumes on school campuses.

In addition, 56 schools recycle cardboard, 31 recycle steel cans and 21 recycle cartons. All schools, and especially those with a dual-stream or commingled collection program, are encouraged to stay engaged with recycling haulers or processors to ensure that they have a mutual understanding about what materials are accepted. This allows for accurate promotion through signage and education to help reduce contamination.

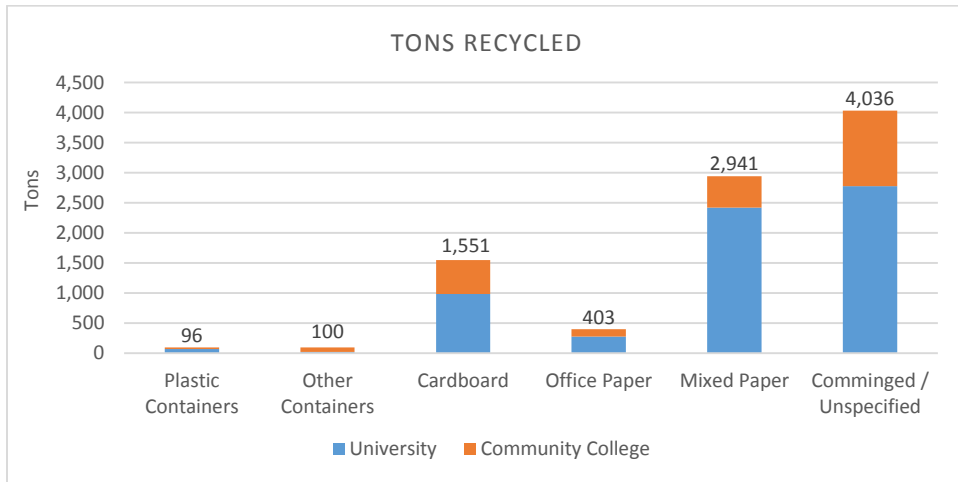


2 - RECYCLING PROGRAMS

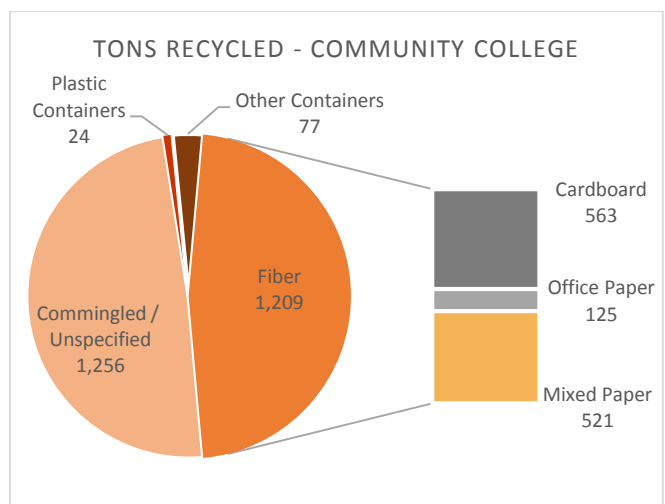
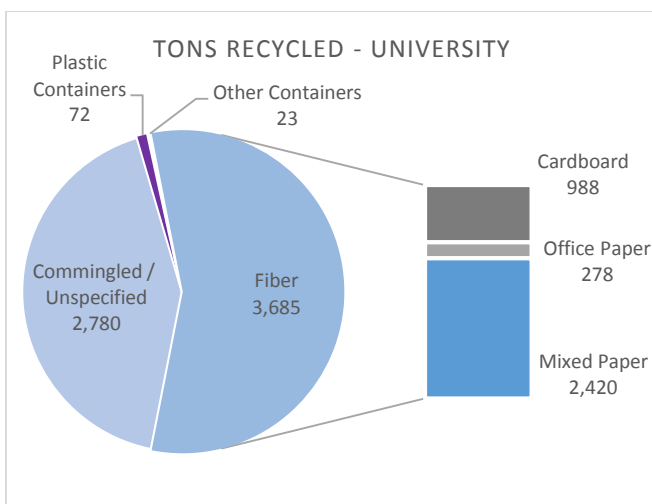
2.6 - TONS RECYCLED

Survey Question: How much in tons did your agency recycle in fiscal 2014-15?

In fiscal 2014-15, reporting schools recycled 9,126 tons of traditional materials (cans, bottles and paper). Recycling tonnage data was not provided by two community colleges.



Fiber (cardboard, office paper and mixed paper) accounted for the largest proportion (54 percent) of total recycling at 4,895 tons. The commingled/unspecified column includes 2,413 tons from commingled programs, accounting for 26 percent of total recycling, plus 1,623 tons that was not specified by commodity, meaning it was collected in some type of mixed program or weights by commodity were not available. Plastic bottles and containers accounted for 1 percent of total recycling at 96 tons. Other containers (aluminum, glass, steel and mixed containers) accounted for 1 percent of total recycling at 100 tons and little data was available for specific commodities. The 100 tons includes four tons of aluminum, five tons of steel, 0.25 tons of glass and 91 tons of mixed containers. Other containers have been grouped together in the graphs for simplicity.

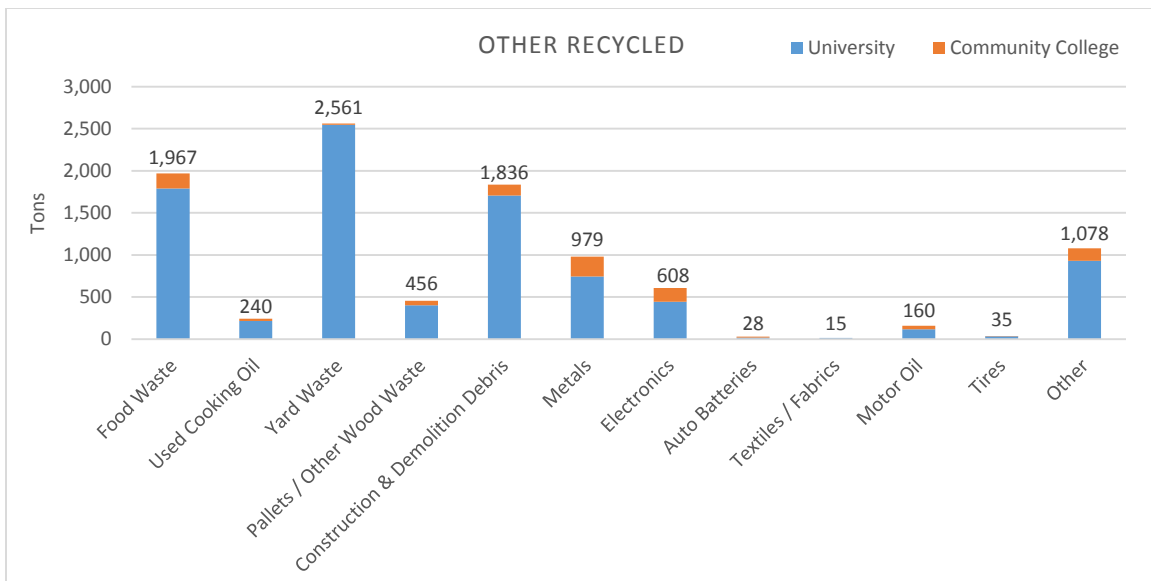


2 - RECYCLING PROGRAMS

2.7 - OTHER RECYCLED

Survey Question: How much in tons did your agency recycle (beyond traditional recyclables) in fiscal 2014-15?

All state agencies are required to recycle the following materials through the N.C. Department of Administration's (DOA) State Surplus Office contracts: antifreeze, motor oil and filters; lead acid (wet cell) batteries; computers and electronic waste; and scrap metal. Additionally, the Department of Administration's Division of Purchasing and Contract has a mandatory recycling contract for fluorescent bulbs.



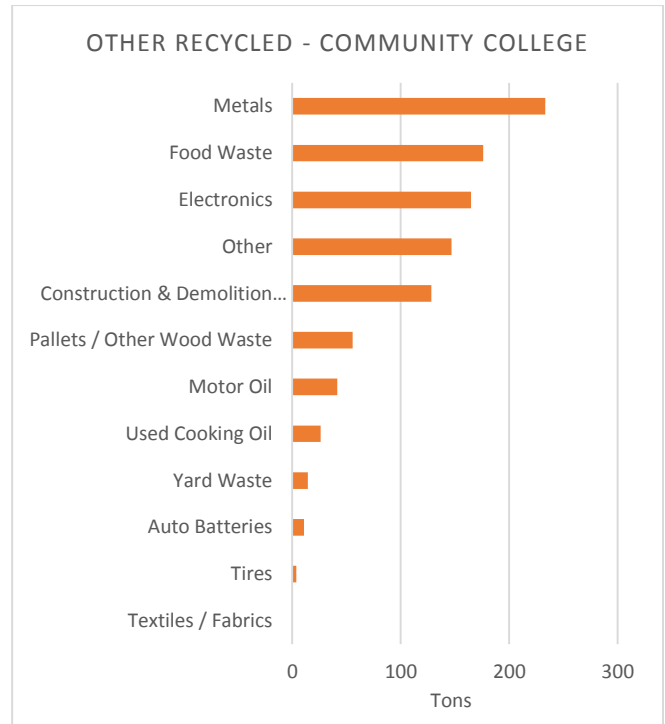
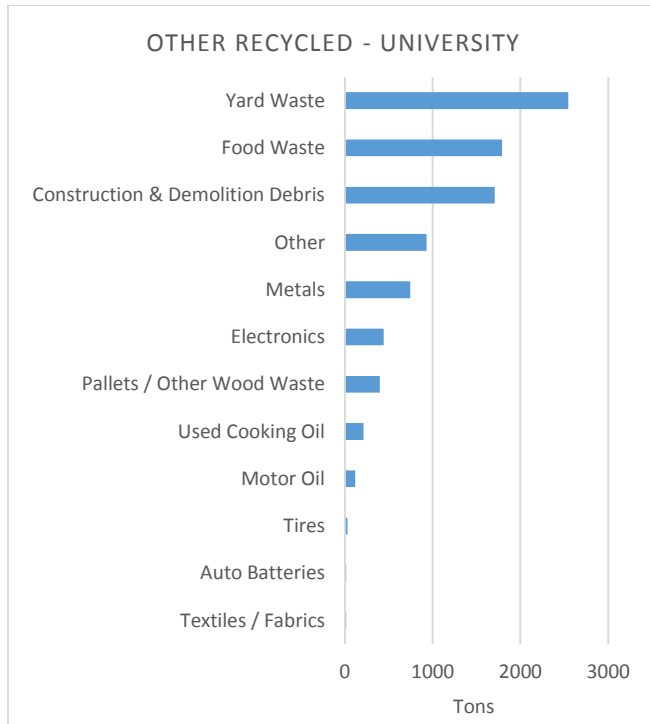
In fiscal 2014-15, reporting schools recycled 9,964 tons of other “non-traditional” materials, including 2,561 tons of yard waste, 1,967 tons of food waste, 1,836 tons of construction and demolition (C&D) debris, 979 tons of metal and 608 tons of electronics. Additionally, 1,078 tons of “other” materials were recycled including toner and ink cartridges, fluorescent lamps, antifreeze, solvents and materials donated or reused through surplus or local charities.

Many schools indicated that electronics are recycled through the State Surplus Office and 38 reported tonnage information. In addition to state-owned electronics, 10 universities and four community colleges accept student-generated electronics for recycling.

2 - RECYCLING PROGRAMS

Most of the “non-traditional” diversion by universities was achieved by recycling yard waste (2,547 tons), food waste (1,791 tons) and C&D debris (1,708 tons). These three materials accounted for 69 percent of the total tons of universities’ other recyclables.

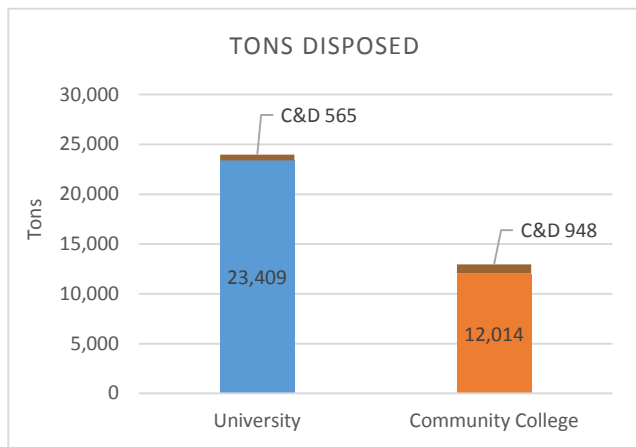
Most of the diversion by community colleges was achieved by recycling scrap metal (233 tons), food waste (176 tons) and electronics (165 tons). These three materials accounted for 57 percent of the total tons of community colleges’ other recyclables.



3 - DISPOSAL

3.1 - TONS DISPOSED

Survey Question: How much in tons did your agency dispose (send to landfill) in fiscal 2014-15?



In fiscal 2014-15, reporting schools disposed of 36,936 tons of solid waste in landfills. Solid waste disposal tonnage data was not provided by two community colleges. Seventeen schools had data available on landfilled construction and demolition (C&D) debris, which totaled 1,513 tons.

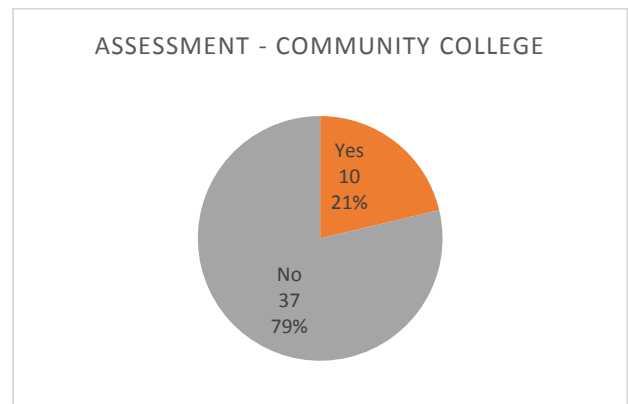
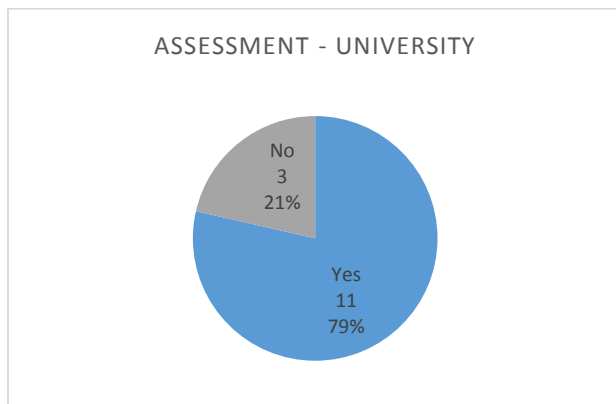
Many reporting schools indicated that solid waste tonnage data was estimated because actual weight data was not available from the solid waste hauler. Agencies are encouraged to work with their haulers to develop ways to collect this data or come up with reasonable estimates. Some schools have achieved this through the following best management practices:

- Include language in solid waste services contracts to require monthly tonnage reports from the hauler. This can be actual weights if the capability exists, or estimates from the hauler.
- Request that the hauler periodically collect actual solid waste tonnage information. For example, during one week per quarter, the hauler collects all of the school's the regularly scheduled pickups and takes that material directly to a scale to be weighed before servicing other customers on the route.

3.2 – SOLID WASTE ASSESSMENT

Survey Question: Has your agency conducted solid waste assessments of the amount and types of solid waste at its facilities?

Having a deeper understanding of the composition of disposed waste can help a campus identify ways to improve recycling programs and save on waste costs. Eleven universities and 10 community colleges have conducted solid waste assessments of some kind. More than half of the assessments were internal, conducted by students or staff on campus and most assessments (17 out of 21) were conducted in the past two years. A solid waste assessment provides a snapshot of what and how much is being discarded. The information collected is valuable because it shows what types of wastes are generated in different areas of campus and can illustrate the effectiveness (or ineffectiveness) of recycling efforts. Additionally, results can serve as a baseline so that progress can be measured by conducting future assessments.



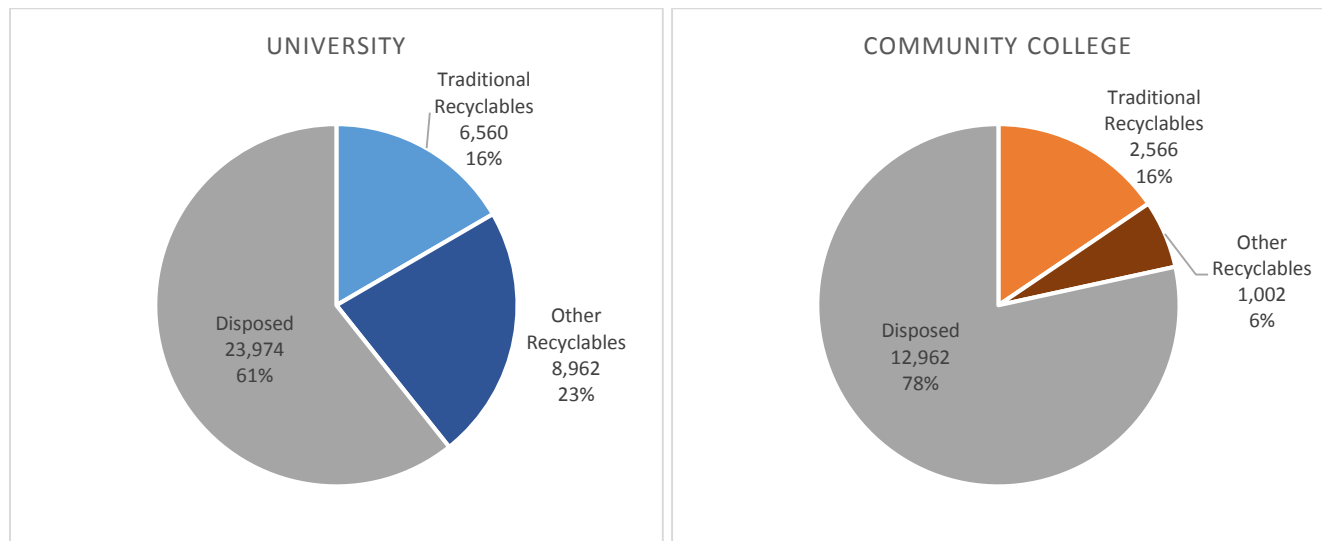
SUMMARY & RECOMMENDATIONS

In fiscal 2014-15, public community colleges and universities reported managing a total of 56,026 tons of material. Just more than one-third of the material (34 percent) was recycled (19,090 tons) and 66 percent was disposed in landfills (36,936 tons).

Universities generated 39,496 tons of material, an average of 404 pounds of material generated per student per year, of which 15,522 tons (39 percent) was recycled.

Community colleges generated 16,530 tons of material, an average of 120 pounds of material generated per student per year, of which 3,568 tons (22 percent) was recycled.

FISCAL 2014-15	UNIVERSITY	COMMUNITY COLLEGE	TOTAL
Traditional Recyclables	6,560	2,566	9,126
Other Recyclables	8,962	1,002	9,964
Disposed	23,974	12,962	36,936
Total Generated	39,496	16,530	56,026



Many schools are continuing to improve and expand waste reduction and recycling efforts while others lack the administrative support, staff and/or funding to evaluate recycling programs. Many programs were designed and implemented years ago and would benefit from making changes that take advantage of new opportunities for efficiency and more effective collection. Some of the success identified through the annual reporting process includes converting to commingled collection systems, implementing education methods through a variety of outlets and increasing diversion beyond traditional recyclables. Community colleges are finding ways to advance recycling by establishing partnerships between horticulture and culinary programs to manage food scraps and finding markets to recycle materials that are generated through technical training programs such as welding, HVAC and automotive shops. Universities are organizing campus events to engage students such as move-in/move-out donation drives, on-campus swapping events and recycling awareness events. A list of some best management practices and recommendations that are being implemented at colleges and universities around the state are highlighted below.

IMPLEMENT COMMINGLED RECYCLING COLLECTION

Collecting recyclables in a commingled system increases participation, simplifies education, reduces bin purchases and streamlines collection which results in improved efficiency for internal staff and contracted haulers. A commingled system also allows for greater ease in achieving a campus-wide twinned bin system, since only one recycling bin is needed to pair

SUMMARY & RECOMMENDATIONS

with each trash bin. Most campuses have access to hauling services or processors that allow the mixing of recyclables in a “single stream” and more public and private entities are implementing this kind of commingled recycling system. The DEACS website provides a map of material recovery facilities (MRFs) that accept mixed recyclables <https://deg.nc.gov/conservation/recycling/material-recovery-facilities> and can assist in the implementation of a commingled program.

EDUCATE

Effective outreach, using multiple mechanisms with a coordinated message, helps ensure the collection of more, cleaner recyclables. Campuses can take advantage of free resources to augment education and outreach efforts. The state’s RecycleMore website offers information, free promotional items and signs available to download and print. Additionally, recycling haulers or vendors may be able to provide free signs or posters that are tailored to a school’s specific program.

TWIN THE BIN

Pairing recycling and trash bins together in all locations on campus should be a goal for all colleges and universities. Twinning the bin at every location provides a convenient option to recycle, provides a message that recycling is a priority and reduces contamination. Where budgets limit the ability to buy recycling containers, schools should consider reducing the number of trash bins or converting some trash bins to recycling bins. This can be done by changing the lid so that it has a restrictive opening and/or different color, or by using labels and signs.

MEASURE

While the annual reporting process provides an opportunity to collect and review solid waste and recycling data, agencies are encouraged to continually track program data and metrics. If information is not available about recycling or solid waste volume or tonnage, campuses can successfully work with their haulers to obtain reports or estimates of collected tonnage. Adding a clause in recycling and solid waste contracts to require that vendors provide data is a good way to consistently have access to this data.

Periodic waste assessments are a good way to determine the types of material in the waste stream. Even a small scale internal waste assessment will provide valuable information about the types of materials generated on campus. An assessment provides an opportunity to evaluate current programs and determine if efforts are necessary to improve education and convenience to more effectively capture recyclables or if new streams of materials could be targeted for source reduction or recycling.

EXPAND RECYCLING

Many community colleges and universities already have programs in place to divert materials beyond traditional recyclables. Schools are reminded to use contracts and services available through the State Surplus Office to manage office furniture and supplies, equipment, vehicles and special recyclables such as scrap metal, motor oil and filters, electronics and fluorescent bulbs. Additional examples of expanded recycling and diversion strategies include:

- Diverting food waste from dining services by donating excess food to local food banks, composting food scraps and using reusable or compostable serviceware (Alamance Community College, Appalachian State University, Central Piedmont Community College, Guilford Technical Community College, N.C. State University, UNC-Asheville, UNC-Chapel Hill, UNC-Charlotte, UNC-Greensboro, UNC-School of the Arts, Wake Technical Community College, Wilson Community College and Winston-Salem State University).
- Composting vegetable scraps from campus gardens or culinary programs (Guilford Technical Community College, Western Piedmont Community College and Wilson Community College).

SUMMARY & RECOMMENDATIONS

- Composting yard wastes such as branches, grass clippings, leaves and landscape debris (Fayetteville State University, Guilford Technical Community College, Surry Community College and Wilson Community College).
- Implementing source reduction programs (Wake Technical Community College has eliminated styrofoam from one of their campuses, N.C. State University is working towards removing single-use plastic bags from campus, and UNC-Chapel Hill is working with mail services to reduce junk mail on campus).
- Organizing recycling and reuse opportunities during move-in/move-out events (Appalachian State University, East Carolina University, N.C. State University, UNC-Chapel Hill, UNC-Greensboro)
- Evaluating school-specific waste streams and finding ways to divert those materials (Martin Community College composts equine waste from their equine technology program).

TALK TO PEERS

Most universities and community colleges are managing similar waste streams and tackling many of the same challenges related to solid waste management. Through this report, DEACS hopes to highlight some general best management practices, but many more can be discovered by talking with peers. One opportunity for connecting is through the Collegiate Recyclers Coalition (CRC), a council of the Carolina Recycling Association. The CRC holds quarterly meetings and an annual workshop, which provides an opportunity for networking and information sharing. More information can be found by contacting DEACS or visiting the CRC website at: <http://www.cra-recycle.org/councilsandcommittees/cracouncils/crc/>.

APPENDIX 1 – INDIVIDUAL AGENCY REPOSSES

1.1 EDUCATION METHODS	Labels on Bins	Signs / Stickers on Bins	Flyers / Posters on Campus	Emails to Staff	Emails to Students	Webpage	Social Media	Classroom Education	In-Person Interaction	Tabling at Campus Events	Student Groups	Residence Halls	Orientation	Competitions	Events
UNIVERSITY															
Appalachian State University	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1
East Carolina University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Elizabeth City State University	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Fayetteville State University	1	1	1	1	1	1	-	1	1	1	1	1	1	-	1
N.C. Central University	1	1	-	1	1	1	-	-	1	-	1	1	1	-	-
N.C. State University	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UNC-Asheville	-	1	-	-	-	1	-	-	1	1	1	1	1	1	1
UNC-Chapel Hill	1	1	1	1	1	1	1	-	1	1	1	1	-	1	1
UNC-Charlotte	1	1	1	1	-	1	1	-	1	1	1	1	1	-	1
UNC-Greensboro	1	1	1	-	-	1	-	1	1	1	1	1	-	1	1
UNC-Pembroke	1	1	1	1	1	1	1	1	1	1	1	-	1	-	-
UNC-School of the Arts	1	1	1	1	-	-	-	1	1	1	1	-	1	1	-
Western Carolina University	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1
Winston-Salem State University	1	1	-	1	1	1	1	-	-	-	-	1	1	-	-
Total	13	13	9	11	9	13	8	8	12	11	12	11	11	7	9
COMMUNITY COLLEGE															
Alamance CC	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-
Asheville-Buncombe Tech CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Beaufort County CC	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-
Bladen CC	1	1	1	1	-	-	-	1	-	-	-	-	-	-	-
Blue Ridge CC	1	1	1	1	-	-	-	-	1	-	-	-	-	-	-
Brunswick CC	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-
Caldwell CC & Tech Institute	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Carteret CC	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Catawba Valley CC	1	1	1	1	-	1	-	-	1	-	1	-	-	-	-
Central Carolina CC	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Central Piedmont CC	1	1	1	1	1	1	1	-	1	-	-	-	1	-	1
College of the Albemarle	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Craven CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Davidson County CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Durham Technical CC	1	1	1	1	1	-	-	-	-	-	1	-	-	-	-
Edgecombe CC	-	1	1	1	1	1	-	1	1	-	-	-	-	-	-
Fayetteville Tech CC	1	1	-	1	-	1	-	-	-	-	-	-	1	-	-
Forsyth Technical CC	1	1	1	1	1	1	-	1	-	1	1	-	1	-	-
Gaston College	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Guilford Technical CC	1	1	1	1	-	-	-	1	-	1	1	-	-	-	-

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

1.1 EDUCATION METHODS	Labels on Bins	Signs / Stickers on Bins	Flyers / Posters on Campus	Emails to Staff	Emails to Students	Webpage	Social Media	Classroom Education	In-Person Interaction	Tabling at Campus Events	Student Groups	Residence Halls	Orientation	Competitions	Events
COMMUNITY COLLEGE continued															
Halifax CC	1	1	1	1	1	-	-	1	1	1	-	-	1	1	1
Isothermal CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
James Sprunt CC	1	1	-	1	-	-	-	-	1	-	-	-	-	-	1
Lenoir CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Martin CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mayland CC	1	1	-	-	-	-	-	1	1	-	-	-	-	-	-
Montgomery CC	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Nash CC	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1
Pamlico CC	1	1	-	-	-	-	1	-	-	-	-	-	-	-	1
Pitt CC	1	1	1	1	-	-	-	-	1	1	1	-	-	-	1
Randolph CC	1	1	-	1	-	-	-	-	1	1	-	-	-	-	-
Richmond CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Roanoke-Chowan CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockingham CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sampson CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sandhills CC	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-
South Piedmont CC	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1
Southeastern CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Southwestern CC	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
Stanly CC	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Surry CC	1	1	1	1	1	-	1	1	1	1	1	-	-	1	-
Tri-County CC	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Wake Technical CC	1	1	-	1	-	1	-	-	-	1	1	-	-	-	-
Wayne CC	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Western Piedmont CC	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-
Wilkes CC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilson CC	1	1	1	1	1	1	1	1	1	1	-	-	-	1	-
Total	42	40	17	20	9	10	4	9	12	9	10	0	5	4	8
TOTAL – ALL SCHOOLS	55	53	26	31	18	23	12	17	24	20	22	11	16	11	17

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

1.2 OUTREACH CAMPAIGNS	Recycle Guys	RE3	RecycleMore	Recyclemania	Other Campaigns
UNIVERSITY					
Appalachian State University	1	1	1	1	-
East Carolina University	1	1	-	-	1
Elizabeth City State University	-	-	-	-	-
Fayetteville State University	-	-	-	-	1
N.C. Central University	-	-	-	-	-
N.C. State University	-	1	-	1	1
UNC-Asheville	-	-	-	1	-
UNC-Chapel Hill	1	-	1	1	1
UNC-Charlotte	-	1	-	-	-
UNC-Greensboro	1	1	-	1	-
UNC-Pembroke	-	-	-	1	1
UNC-School of the Arts	-	-	1	-	-
Western Carolina University	-	-	-	1	-
Winston-Salem State University	1	-	1	-	-
Total	5	5	4	7	5
COMMUNITY COLLEGE					
Alamance CC	-	-	-	-	1
Asheville-Buncombe Tech CC	-	-	-	-	-
Beaufort County CC	-	-	-	-	-
Bladen CC	-	-	-	-	-
Blue Ridge CC	-	-	-	-	-
Brunswick CC	-	-	-	-	-
Caldwell CC & Tech Institute	-	-	-	-	-
Carteret CC	-	-	-	-	-
Catawba Valley CC	-	-	-	-	-
Central Carolina CC	-	-	-	-	-
Central Piedmont CC	-	-	-	-	-
College of the Albemarle	-	-	-	-	-
Craven CC	1	1	-	-	-
Davidson County CC	-	-	-	-	-
Durham Technical CC	-	-	-	-	-
Edgecombe CC	-	-	-	-	-
Fayetteville Tech CC	-	-	-	-	-
Forsyth Technical CC	1	1	-	-	-
Gaston College	-	-	-	-	-
Guilford Technical CC	-	-	-	-	-
Halifax CC	1	-	-	1	1

1.2 OUTREACH CAMPAIGNS	Recycle Guys	RE3	RecycleMore	Recyclemania	Other Campaigns
COMMUNITY COLLEGE continued					
Isothermal CC	-	-	-	-	-
James Sprunt CC	-	-	-	-	-
Lenoir CC	-	-	-	-	-
Martin CC	-	-	-	-	1
Mayland CC	-	-	-	-	-
Montgomery CC	-	-	-	-	-
Nash CC	-	-	-	-	-
Pamlico CC	-	-	-	-	-
Pitt CC	-	-	-	-	1
Randolph CC	-	-	-	-	-
Richmond CC	-	-	-	-	-
Roanoke-Chowan CC	-	-	-	-	-
Rockingham CC	-	-	-	-	-
Sampson CC	-	-	-	-	-
Sandhills CC	-	-	-	-	-
South Piedmont CC	-	-	-	-	-
Southeastern CC	-	-	-	-	-
Southwestern CC	-	1	-	-	-
Stanly CC	-	-	-	-	-
Surry CC	1	1	1	1	1
Tri-County CC	-	-	-	-	-
Wake Technical CC	-	-	-	1	-
Wayne CC	-	-	-	-	-
Western Piedmont CC	-	1	-	-	-
Wilkes CC	-	-	-	-	-
Wilson CC	-	-	1	1	1
Total	4	5	2	4	6
TOTAL – ALL SCHOOLS	9	10	6	11	11

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.1 PUBLIC SPACE RECYCLING	Sports Venue / Stadium	Athletic Field	Dining Facility	Meeting / Training Space	Theater / Museum	Pedestrian	Special Event
UNIVERSITY							
Appalachian State University	1	1	1	1	1	1	1
East Carolina University	1	1	1	1	1	1	1
Elizabeth City State University	-	-	-	-	-	-	-
Fayetteville State University	-	-	-	-	-	-	-
N.C. Central University	1	1	1	1	1	1	1
N.C. State University	1	1	1	1	1	1	1
UNC-Asheville	1	-	1	-	-	1	-
UNC-Chapel Hill	1	1	1	1	1	1	1
UNC-Charlotte	1	1	1	-	-	1	1
UNC-Greensboro	-	1	1	1	1	1	1
UNC-Pembroke	-	-	1	-	-	1	-
UNC-School of the Arts	-	-	1	1	-	1	-
Western Carolina University	1	1	1	1	1	1	1
Winston-Salem State University	1	1	1	1	-	1	1
Total	9	9	12	9	7	12	9
COMMUNITY COLLEGE							
Alamance CC	-	-	1	1	-	-	-
Asheville-Buncombe Tech CC	-	-	-	-	-	-	1
Beaufort County CC	-	-	1	1	-	-	-
Bladen CC	-	-	-	1	-	-	-
Blue Ridge CC	-	-	-	1	-	-	-
Brunswick CC	-	1	1	1	-	-	1
Caldwell CC & Tech Institute	-	-	1	-	-	1	-
Carteret CC	-	-	-	-	-	-	-
Catawba Valley CC	1	-	1	1	1	1	1
Central Carolina CC	-	-	-	-	-	-	-
Central Piedmont CC	-	-	-	1	1	1	1
College of the Albemarle	-	-	1	-	-	-	-
Craven CC	-	-	-	-	-	-	-
Davidson County CC	1	-	-	1	1	1	1
Durham Technical CC	-	-	1	1	-	-	1
Edgecombe CC	-	-	1	-	-	1	-
Fayetteville Tech CC	-	-	1	1	1	-	1
Forsyth Technical CC	-	-	1	1	-	-	-
Gaston College	-	-	1	1	-	1	1
Guilford Technical CC	-	-	1	1	-	1	1
Halifax CC	1	1	1	1	1	1	1

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.1 PUBLIC SPACE RECYCLING	Sports Venue / Stadium	Athletic Field	Dining Facility	Meeting / Training Space	Theater / Museum	Pedestrian	Special Event
COMMUNITY COLLEGE continued							
Isothermal CC	-	-	1	-	-	-	-
James Sprunt CC	-	-	1	-	-	-	-
Lenoir CC	-	-	-	-	-	-	-
Martin CC	-	-	1	-	-	1	-
Mayland CC	-	-	1	1	-	-	-
Montgomery CC	-	-	-	1	-	-	-
Nash CC	-	-	1	1	-	-	-
Pamlico CC	-	-	-	1	1	-	1
Pitt CC	-	1	1	1	-	-	-
Randolph CC	-	-	1	1	-	1	-
Richmond CC	-	-	1	-	-	-	-
Roanoke-Chowan CC	-	-	-	-	-	-	-
Rockingham CC	-	-	-	1	-	-	-
Sampson CC	-	-	1	-	-	-	-
Sandhills CC	-	-	1	1	1	-	-
South Piedmont CC	-	-	1	1	-	-	-
Southeastern CC	-	-	1	-	-	1	-
Southwestern CC	-	-	1	1	-	1	-
Stanly CC	-	-	1	-	-	-	-
Surry CC	-	1	1	1	-	1	1
Tri-County CC	-	-	-	-	-	-	-
Wake Technical CC	1	-	-	1	-	1	1
Wayne CC	-	-	-	1	-	-	1
Western Piedmont CC	-	-	1	1	-	-	-
Wilkes CC	-	-	-	-	-	-	1
Wilson CC	-	-	1	1	1	1	1
Total	4	4	30	29	8	15	16
TOTAL – ALL SCHOOLS	13	13	42	38	15	27	25

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

2.2 TWINNED BINS	All Bins Twinned	Some Bins Twinned	No Bins Twinned
UNIVERSITY			
Appalachian State University	-	1	-
East Carolina University	-	1	-
Elizabeth City State University	-	1	-
Fayetteville State University	-	1	-
N.C. Central University	-	-	1
N.C. State University	1	-	-
UNC-Asheville	-	1	-
UNC-Chapel Hill	-	1	-
UNC-Charlotte	-	1	-
UNC-Greensboro	1	-	-
UNC-Pembroke	1	-	-
UNC-School of the Arts	-	1	-
Western Carolina University	-	1	-
Winston-Salem State University	1	-	-
Total	4	9	1
COMMUNITY COLLEGE			
Alamance CC	-	-	1
Asheville-Buncombe Tech CC	1	-	-
Beaufort County CC	-	1	-
Bladen CC	1	-	-
Blue Ridge CC	1	-	-
Brunswick CC	-	1	-
Caldwell CC & Tech Institute	-	-	1
Carteret CC	-	1	-
Catawba Valley CC	-	-	1
Central Carolina CC	-	1	-
Central Piedmont CC	-	1	-
College of the Albemarle	-	1	-
Craven CC	-	1	-
Davidson County CC	1	-	-
Durham Technical CC	1	-	-
Edgecombe CC	-	1	-
Fayetteville Tech CC	1	-	-
Forsyth Technical CC	-	1	-
Gaston College	1	-	-
Guilford Technical CC	1	-	-
Halifax CC	-	1	-

2.2 TWINNED BINS	All Bins Twinned	Some Bins Twinned	No Bins Twinned
COMMUNITY COLLEGE continued			
Isothermal CC	-	-	1
James Sprunt CC	-	1	-
Lenoir CC	-	1	-
Martin CC	-	-	1
Mayland CC	-	1	-
Montgomery CC	-	1	-
Nash CC	1	-	-
Pamlico CC	-	1	-
Pitt CC	-	1	-
Randolph CC	-	1	-
Richmond CC	-	1	-
Roanoke-Chowan CC	-	-	1
Rockingham CC	-	1	-
Sampson CC	1	-	-
Sandhills CC	-	-	1
South Piedmont CC	-	1	-
Southeastern CC	-	-	1
Southwestern CC	1	-	-
Stanly CC	-	1	-
Surry CC	-	1	-
Tri-County CC	-	1	-
Wake Technical CC	1	-	-
Wayne CC	-	1	-
Western Piedmont CC	-	1	-
Wilkes CC	-	1	-
Wilson CC	1	-	-
Total	13	26	8
TOTAL – ALL SCHOOLS	17	35	9

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

2.3 COMPOST	Sports Venue / Stadium	Dining Facility (Pre-consumer)	Dining Facility (Post-consumer)	Special Events
UNIVERSITY				
Appalachian State University	1	1	1	1
East Carolina University	-	-	-	-
Elizabeth City State University	-	-	-	-
Fayetteville State University	-	-	-	-
N.C. Central University	-	-	-	-
N.C. State University	1	1	1	1
UNC-Asheville	1	1	1	-
UNC-Chapel Hill	1	1	1	1
UNC-Charlotte	1	1	1	1
UNC-Greensboro	-	1	1	1
UNC-Pembroke	-	-	1	1
UNC-School of the Arts	-	-	1	-
Western Carolina University	-	-	-	-
Winston-Salem State University	1	1	-	1
Total	6	7	8	7
COMMUNITY COLLEGE				
Alamance CC	-	-	1	-
Asheville-Buncombe Tech CC	-	-	-	-
Beaufort County CC	-	-	-	-
Bladen CC	-	-	-	-
Blue Ridge CC	-	-	-	-
Brunswick CC	-	-	-	-
Caldwell CC & Tech Institute	-	-	-	-
Carteret CC	-	-	-	-
Catawba Valley CC	-	-	-	-
Central Carolina CC	-	-	-	-
Central Piedmont CC	-	1	1	-
College of the Albemarle	-	-	-	-
Craven CC	-	-	-	-
Davidson County CC	-	-	-	-
Durham Technical CC	-	-	-	-
Edgecombe CC	-	-	-	-
Fayetteville Tech CC	-	-	-	-
Forsyth Technical CC	-	-	-	-
Gaston College	-	-	-	-
Guilford Technical CC	-	1	1	-
Halifax CC	-	-	-	-

2.3 COMPOST	Sports Venue / Stadium	Dining Facility (Pre-consumer)	Dining Facility (Post-consumer)	Special Events
COMMUNITY COLLEGE continued				
Isothermal CC	-	-	-	-
James Sprunt CC	-	-	-	-
Lenoir CC	-	-	-	-
Martin CC	-	-	-	-
Mayland CC	-	-	-	-
Montgomery CC	-	-	-	-
Nash CC	-	-	-	-
Pamlico CC	-	-	-	-
Pitt CC	-	-	-	-
Randolph CC	-	-	-	-
Richmond CC	-	-	-	-
Roanoke-Chowan CC	-	-	-	-
Rockingham CC	-	-	-	-
Sampson CC	-	-	-	-
Sandhills CC	-	-	-	-
South Piedmont CC	-	-	-	-
Southeastern CC	-	-	-	-
Southwestern CC	-	-	-	-
Stanly CC	-	-	-	-
Surry CC	-	-	-	-
Tri-County CC	-	-	-	-
Wake Technical CC	-	-	-	1
Wayne CC	-	-	-	-
Western Piedmont CC	-	-	-	-
Wilkes CC	-	-	-	-
Wilson CC	-	1	1	-
Total	0	3	4	1
TOTAL – ALL SCHOOLS	6	10	12	8

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

2.4 RECYCLING COLLECTION STYLE	Commingled	Dual-Stream	Source Separated	Combo
UNIVERSITY				
Appalachian State University	1	-	-	-
East Carolina University	-	1	-	-
Elizabeth City State University	1	-	-	-
Fayetteville State University	1	-	-	-
N.C. Central University	-	1	-	-
N.C. State University	-	-	-	1
UNC-Asheville	1	-	-	-
UNC-Chapel Hill	-	-	-	1
UNC-Charlotte	-	1	-	-
UNC-Greensboro	1	-	-	-
UNC-Pembroke	1	-	-	-
UNC-School of the Arts	1	-	-	-
Western Carolina University	-	1	-	-
Winston-Salem State University	-	-	-	1
Total	7	4	0	3
COMMUNITY COLLEGE				
Alamance CC	1	-	-	-
Asheville-Buncombe Tech CC	1	-	-	-
Beaufort County CC	-	-	1	-
Bladen CC	-	-	-	1
Blue Ridge CC	1	-	-	-
Brunswick CC	1	-	-	-
Caldwell CC & Tech Institute	-	-	-	1
Carteret CC	1	-	-	-
Catawba Valley CC	1	-	-	-
Central Carolina CC	-	-	-	1
Central Piedmont CC	1	-	-	-
College of the Albemarle	-	1	-	-
Craven CC	1	-	-	-
Davidson County CC	1	-	-	-
Durham Technical CC	-	-	1	-
Edgecombe CC	-	-	1	-
Fayetteville Tech CC	-	1	-	-
Forsyth Technical CC	1	-	-	-
Gaston College	-	1	-	-
Guilford Technical CC	1	-	-	-
Halifax CC	1	-	-	-

2.4 RECYCLING COLLECTION STYLE	Commingled	Dual-Stream	Source Separated	Combo
COMMUNITY COLLEGE continued				
Isothermal CC	1	-	-	-
James Sprunt CC	-	-	1	-
Lenoir CC	-	-	1	-
Martin CC	1	-	-	-
Mayland CC	-	-	1	-
Montgomery CC	-	-	1	-
Nash CC	1	-	-	-
Pamlico CC	1	-	-	-
Pitt CC	-	1	-	-
Randolph CC	-	1	-	-
Richmond CC	-	-	1	-
Roanoke-Chowan CC	1	-	-	-
Rockingham CC	1	-	-	-
Sampson CC	-	1	-	-
Sandhills CC	-	-	1	-
South Piedmont CC	-	-	1	-
Southeastern CC	-	1	-	-
Southwestern CC	-	-	-	1
Stanly CC	-	-	1	-
Surry CC	1	-	-	-
Tri-County CC	-	-	1	-
Wake Technical CC	1	-	-	-
Wayne CC	-	-	-	1
Western Piedmont CC	-	1	-	-
Wilkes CC	-	-	1	-
Wilson CC	-	-	1	-
Total	20	8	14	5
TOTAL – ALL SCHOOLS	27	12	14	8

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.5 MATERIALS COLLECTED	PET #1 Plastic	HDPE #2 Plastic	Other Plastic Containers	Aluminum Cans	Steel Cans	Glass	Cardboard	Office Paper	Mixed Paper	Cartons / Aseptic Containers
UNIVERSITY										
Appalachian State University	1	1	1	1	1	1	1	1	1	1
East Carolina University	1	1	1	1	1	1	1	1	1	-
Elizabeth City State University	1	1	1	1	1	1	1	1	1	1
Fayetteville State University	1	1	1	1	1	1	1	1	1	-
N.C. Central University	1	1	1	1	-	1	1	1	1	-
N.C. State University	1	1	1	1	1	1	1	1	1	1
UNC-Asheville	-	-	1	1	1	1	1	1	1	1
UNC-Chapel Hill	1	1	1	1	1	1	1	1	1	1
UNC-Charlotte	1	1	1	1	1	1	1	1	1	1
UNC-Greensboro	1	1	1	1	1	1	1	1	1	1
UNC-Pembroke	1	1	1	1	1	1	1	1	1	1
UNC-School of the Arts	1	1	1	1	1	1	1	1	1	1
Western Carolina University	1	1	1	1	1	1	1	1	1	-
Winston-Salem State University	-	-	1	1	-	-	1	1	1	1
Total	12	12	14	14	12	13	14	14	14	10
COMMUNITY COLLEGE										
Alamance CC	-	-	-	1	1	1	1	1	1	-
Asheville-Buncombe Tech CC	1	1	1	1	1	1	1	1	1	1
Beaufort County CC	1	1	1	1	-	-	1	1	1	-
Bladen CC	1	1	1	1	1	-	1	1	1	-
Blue Ridge CC	-	-	1	1	-	-	1	1	1	1
Brunswick CC	1	-	1	1	-	1	1	1	1	1
Caldwell CC & Tech Institute	1	1	1	1	1	1	1	1	1	1
Carteret CC	-	-	1	1	-	-	1	1	-	-
Catawba Valley CC	1	1	1	1	1	1	1	1	1	-
Central Carolina CC	1	1	1	-	-	-	1	1	1	-
Central Piedmont CC	1	1	1	1	1	1	1	1	1	1
College of the Albemarle	1	1	-	1	-	1	1	1	-	-
Craven CC	1	1	1	1	-	1	1	1	1	-
Davidson County CC	1	1	1	1	1	1	1	1	1	-
Durham Technical CC	-	-	1	1	-	-	1	1	1	-
Edgecombe CC	-	-	1	1	-	-	1	1	-	-
Fayetteville Tech CC	1	-	1	1	-	1	1	1	1	-
Forsyth Technical CC	1	1	1	1	1	1	1	1	1	-
Gaston College	-	-	1	1	-	-	-	1	1	-
Guilford Technical CC	1	1	1	1	1	1	1	1	1	-
Halifax CC	1	1	1	1	1	1	1	1	1	1

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.5 MATERIALS COLLECTED	PET #1 Plastic	HDPE #2 Plastic	Other Plastic Containers	Aluminum Cans	Steel Cans	Glass	Cardboard	Office Paper	Mixed Paper	Cartons / Aseptic Containers
COMMUNITY COLLEGE continued										
Isothermal CC	-	-	1	1	-	-	-	1	-	-
James Sprunt CC	-	-	1	1	-	-	1	-	1	-
Lenoir CC	-	-	-	1	-	-	1	1	-	-
Martin CC	1	1	1	1	-	-	-	-	-	-
Mayland CC	-	-	-	1	-	-	1	1	1	-
Montgomery CC	-	-	1	1	-	-	-	-	1	-
Nash CC	-	-	-	1	1	-	1	-	-	-
Pamlico CC	1	1	1	1	1	-	1	1	1	-
Pitt CC	1	-	1	1	1	1	1	1	1	-
Randolph CC	1	1	1	1	-	-	1	1	1	-
Richmond CC	1	1	1	1	1	1	1	1	1	1
Roanoke-Chowan CC	-	-	-	-	-	-	1	1	-	-
Rockingham CC	1	1	1	1	-	1	1	1	1	1
Sampson CC	1	-	-	1	-	-	1	1	-	-
Sandhills CC	1	1	1	1	-	1	1	1	1	-
South Piedmont CC	1	-	-	1	-	-	-	-	-	-
Southeastern CC	-	-	1	1	-	-	1	1	1	-
Southwestern CC	-	1	1	1	-	-	1	1	1	1
Stanly CC	1	1	1	1	1	1	1	1	1	1
Surry CC	1	1	1	1	1	1	1	1	1	-
Tri-County CC	1	-	-	1	-	-	1	-	-	-
Wake Technical CC	1	1	-	1	1	1	1	1	1	-
Wayne CC	1	1	1	-	-	-	1	1	1	1
Western Piedmont CC	1	1	1	1	1	-	1	1	1	-
Wilkes CC	1	-	1	1	1	-	1	1	1	-
Wilson CC	1	1	1	1	-	-	1	-	1	-
Total	32	26	37	44	19	20	42	40	36	11
TOTAL – ALL SCHOOLS	44	38	51	58	31	33	56	54	50	21

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.6 TONS RECYCLED	Plastic Containers	Aluminum Cans	Steel Cans	Glass	Mixed Containers	Cardboard	Office Paper	Mixed Paper	Comminged / Unspecified	Total Recycled
UNIVERSITY										
Appalachian State University	-	-	-	-	-	-	-	-	589	589
East Carolina University	60	-	-	-	20	227	-	368	-	675
Elizabeth City State University	-	-	-	-	-	-	-	-	26	26
Fayetteville State University	-	-	-	-	-	-	-	-	37	37
N.C. Central University	3	-	-	-	3	-	28	56	-	89
N.C. State University	10	-	-	-	-	551	228	266	354	1,408
UNC-Asheville	-	-	-	-	-	-	-	-	131	131
UNC-Chapel Hill	-	-	-	-	-	-	-	1,247	489	1,736
UNC-Charlotte	-	-	-	-	-	-	-	429	84	513
UNC-Greensboro	-	-	-	-	-	45	22	21	432	521
UNC-Pembroke	-	-	-	-	-	-	-	-	108	108
UNC-School of the Arts	-	-	-	-	-	-	-	-	176	176
Western Carolina University	-	-	-	-	-	164	-	32	21	217
Winston-Salem State University	-	-	-	-	-	-	-	-	333	333
Total	72	0	0	0	23	988	278	2,420	2,780	6,560
COMMUNITY COLLEGE										
Alamance CC	-	-	-	-	-	138	-	153	-	291
Asheville-Buncombe Tech CC	-	-	-	-	-	15	-	-	26	42
Beaufort County CC	2	-	-	-	0.1	-	-	28	-	30
Bladen CC	-	-	-	-	-	-	-	-	100	100
Blue Ridge CC	-	-	-	-	-	-	-	-	3	3
Brunswick CC	-	-	-	-	-	-	-	-	35	35
Caldwell CC & Tech Institute	-	-	-	-	-	-	-	-	55	55
Carteret CC	-	-	-	-	-	25	-	8	4	37
Catawba Valley CC	-	-	-	-	-	-	-	-	3	3
Central Carolina CC	1	-	-	-	-	-	-	5	-	5
Central Piedmont CC	-	-	-	-	-	-	49	-	159	208
College of the Albemarle	-	-	-	-	-	5	-	-	5	10
Craven CC	-	-	-	-	-	-	-	-	46	46
Davidson County CC	-	-	-	-	-	23	-	-	22	45
Durham Technical CC	2	-	-	-	-	140	9	-	15	166
Edgecombe CC	-	-	-	-	-	-	-	-	25	25
Fayetteville Tech CC	5	1	-	-	-	14	-	111	-	131
Forsyth Technical CC	-	-	-	-	-	-	-	-	39	39
Gaston College	2	0.2	-	-	-	-	-	19	-	21
Guilford Technical CC	-	-	-	-	-	-	-	-	10	10
Halifax CC	-	-	-	-	-	-	-	-	160	160

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.6 TONS RECYCLED	Plastic Containers	Aluminum Cans	Steel Cans	Glass	Mixed Containers	Cardboard	Office Paper	Mixed Paper	Comminged / Unspecified	Total Recycled
COMMUNITY COLLEGE continued										
Isothermal CC	-	-	-	-	-	-	-	-	70	70
James Sprunt CC	2	1	0	0	-	12	0	4	-	19
Lenoir CC	0	-	-	-	0	19	1	0	-	20
Martin CC	-	-	-	-	-	-	-	-	-	-
Mayland CC	-	-	-	-	-	-	-	-	6	6
Montgomery CC	1	1	-	-	-	-	-	1	-	3
Nash CC	-	0.1	5	-	-	4	-	-	-	9
Pamlico CC	-	-	-	-	-	-	-	-	18	18
Pitt CC	0.3	-	-	-	1	35	1	3	-	40
Randolph CC	1	-	-	-	0.3	4	0.2	3	-	9
Richmond CC	-	-	-	-	-	-	-	-	60	60
Roanoke-Chowan CC	-	-	-	-	-	0.5	0.5	-	-	1
Rockingham CC	-	-	-	-	-	-	-	-	303	303
Sampson CC	-	-	-	-	-	-	-	-	11	11
Sandhills CC	1	1	0	0.3	-	2	0	6	7	17
South Piedmont CC	-	-	-	-	-	-	-	-	1	1
Southeastern CC	-	-	-	-	-	-	-	-	3	3
Southwestern CC	1	-	-	-	-	-	-	8	3	12
Stanly CC	1	-	-	-	4	-	-	1	-	6
Surry CC	-	-	-	-	-	-	-	-	16	16
Tri-County CC	-	-	-	-	-	-	-	-	10	10
Wake Technical CC	-	-	-	-	63	125	64	140	-	392
Wayne CC	5	-	-	-	-	-	-	19	-	24
Western Piedmont CC	-	-	-	-	-	-	-	-	41	41
Wilkes CC	-	-	-	-	-	-	-	-	-	-
Wilson CC	1	-	-	-	-	1	-	12	0.3	14
Total	24	4	5	0	68	563	125	521	1,256	2,566
TOTAL – ALL SCHOOLS	96	4	5	0.3	91	1,551	403	2,941	4,036	9,126

APPENDIX 1 – INDIVIDUAL AGENCY REPOSSES

2.7 OTHER RECYCLED	Food Waste	Used Cooking Oil	Yard Waste	Pallets / Other Wood Waste	Construction & Demolition	Metals	Electronics	Auto Batteries	Textiles / Fabrics	Motor Oil	Tires	Other	Total
UNIVERSITY													
Appalachian State University	89	35	131	149	35	51	2	1	11	6	3	99	610
East Carolina University	-	20	20	51	-	68	65	4	-	2	3	71	302
Elizabeth City State University	-	0.2	-	2	-	-	3	-	-	-	0.1	-	4
Fayetteville State University	-	13	-	-	-	52	105	-	-	-	-	-	170
N.C. Central University	1	9	-	-	-	-	-	-	-	-	-	-	10
N.C. State University	476	39	474	56	750	220	98	2	3	7	11	528	2,663
UNC-Asheville	180	3	44	8	-	20	5	-	2	1	0.4	51	313
UNC-Chapel Hill	660	19	1,673	97	2	259	100	8	-	2	5	141	2,966
UNC-Charlotte	61	50	119	29	500	48	31	3	-	1	2	21	865
UNC-Greensboro	219	10	12	6	344	22	34	0.3	-	1	1	21	670
UNC-Pembroke	0.3	16	73	3	1	1	1	0.2	-	3	0.4	-	99
UNC-School of the Arts	16	-	-	-	-	-	-	-	-	-	-	-	16
Western Carolina University	88	-	1	-	76	1	-	-	-	-	3	-	170
Winston-Salem State University	-	-	-	1	0	4	0	-	-	96	3	-	104
Total	1,791	214	2,547	400	1,708	746	443	18	15	118	31	773	8,962
COMMUNITY COLLEGE													
Alamance CC	161	-	-	-	-	16	5	0.4	-	1	0.6	-	183
Asheville-Buncombe Tech CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Beaufort County CC	-	1	-	1	-	-	3	-	-	1	-	0.3	6
Bladen CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Blue Ridge CC	-	-	-	-	-	-	4	-	-	-	-	-	4
Brunswick CC	-	2	-	1	-	-	-	0.1	-	1	-	0.1	4
Caldwell CC & Tech Institute	-	-	-	-	-	-	-	-	-	10	-	-	10
Carteret CC	-	-	-	-	-	8	-	-	-	-	-	-	8
Catawba Valley CC	-	-	2	3	-	-	6	-	-	-	-	-	11
Central Carolina CC	-	15	-	-	-	19	9	1	-	1	1	3	49
Central Piedmont CC	15	0.2	-	-	86	-	35	-	-	-	-	6	142
College of the Albemarle	-	-	-	-	-	5	3	-	-	-	-	-	8
Craven CC	-	-	-	2	10	3	7	-	-	1	-	-	23
Davidson County CC	-	-	-	-	-	13	3	-	-	-	-	-	16
Durham Technical CC	-	-	-	6	6	4	15	1	-	0.2	-	-	32
Edgecombe CC	-	1	-	4	-	-	-	-	-	2	-	-	7
Fayetteville Tech CC	-	-	-	-	-	9	-	4	-	-	2	-	15
Forsyth Technical CC	0	1	0	0	0	5	16	1	0	2	0	0	24
Gaston College	-	-	-	-	-	-	5	-	-	4	-	-	9
Guilford Technical CC	-	-	-	-	2	20	-	-	-	-	-	-	22
Halifax CC	-	-	2	1	-	2	1	-	-	2	-	-	8

APPENDIX 1 – INDIVIDUAL AGENCY REPONSES

2.7 OTHER RECYCLED	Food Waste	Used Cooking Oil	Yard Waste	Pallets / Other Wood Waste	Construction & Demolition	Metals	Electronics	Auto Batteries	Textiles / Fabrics	Motor Oil	Tires	Other	Total
COMMUNITY COLLEGE continued													
Isothermal CC	-	-	-	-	-	-	-	-	-	-	-	-	-
James Sprunt CC	0	0	5	0	0	0	0	0	0	0	0	-	5
Lenoir CC	0	0.3	5	4	2	17	4	0	0	0	0	-	32
Martin CC	-	-	-	-	-	-	7	-	-	-	-	136	143
Mayland CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Montgomery CC	-	-	-	0.5	-	1	1	-	-	-	-	-	3
Nash CC	-	1	0.2	1	1	3	1	0.2	-	0.3	-	-	7
Pamlico CC	0	0	0	-	0	2	1	0.1	0	0.3	0	0	3
Pitt CC	-	-	-	1	-	-	3	-	-	2	-	0.3	5
Randolph CC	-	1	-	-	-	27	-	0.3	-	1	-	-	29
Richmond CC	-	-	-	7	-	8	2	1	-	-	-	-	18
Roanoke-Chowan CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockingham CC	-	-	-	-	-	-	2	1	-	-	-	-	3
Sampson CC	0	0	0	0	0	0	0	0	0	0	0	0	0
Sandhills CC	-	1	-	-	0	0	5	1	-	1	1	-	8
South Piedmont CC	-	1	-	-	-	-	4	-	-	1	-	-	6
Southeastern CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Southwestern CC	-	-	-	-	3	-	-	-	-	-	-	-	3
Stanly CC	0	0	0	0	0	1	2	-	-	-	-	-	3
Surry CC	0	2	1	0	20	4	3	0	0	0.1	0	0	29
Tri-County CC	0	0	0	0	0	7	0	0	0	0	0	0	7
Wake Technical CC	-	-	-	6	-	21	13	2	-	13	-	-	56
Wayne CC	-	-	-	17	-	18	-	-	-	-	-	1	36
Western Piedmont CC	-	-	-	2	-	11	5	-	-	-	-	-	17
Wilkes CC	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilson CC	0	0	0	0	0	9	2	1	0	0.1	0	0	11
Total	176	26	14	56	128	233	165	11	0	42	4	147	1,002
TOTAL – ALL SCHOOLS	1,967	240	2,561	456	1,836	979	608	28	15	160	35	920	9,964

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

3.1 TONS DISPOSED	Tons Disposed	Tons C&D Disposed
UNIVERSITY		
Appalachian State University	1,715	16
East Carolina University	2,488	-
Elizabeth City State University	345	6
Fayetteville State University	583	-
N.C. Central University	1,433	25
N.C. State University	4,282	306
UNC-Asheville	411	-
UNC-Chapel Hill	5,656	75
UNC-Charlotte	1,868	-
UNC-Greensboro	1,282	57
UNC-Pembroke	720	3
UNC-School of the Arts	315	-
Western Carolina University	1,133	76
Winston-Salem State University	1,743	-
Total	23,974	565
COMMUNITY COLLEGE		
Alamance CC	160	-
Asheville-Buncombe Tech CC	106	-
Beaufort County CC	208	-
Bladen CC	500	-
Blue Ridge CC	40	-
Brunswick CC	114	-
Caldwell CC & Tech Institute	73	-
Carteret CC	210	-
Catawba Valley CC	98	-
Central Carolina CC	269	-
Central Piedmont CC	964	559
College of the Albemarle	468	-
Craven CC	118	10
Davidson County CC	667	-
Durham Technical CC	702	-
Edgecombe CC	5	-
Fayetteville Tech CC	2,416	230
Forsyth Technical CC	38	0
Gaston College	15	-
Guilford Technical CC	150	-
Halifax CC	50	-

3.1 TONS DISPOSED	Tons Disposed	Tons C&D Disposed
COMMUNITY COLLEGE continued		
Isothermal CC	90	-
James Sprunt CC	55	0
Lenoir CC	19	2
Martin CC	143	-
Mayland CC	88	-
Montgomery CC	273	-
Nash CC	98	-
Pamlico CC	22	0
Pitt CC	282	31
Randolph CC	94	-
Richmond CC	67	2
Roanoke-Chowan CC	-	-
Rockingham CC	874	-
Sampson CC	11	0
Sandhills CC	33	0
South Piedmont CC	6	-
Southeastern CC	94	-
Southwestern CC	58	3
Stanly CC	10	-
Surry CC	855	20
Tri-County CC	107	-
Wake Technical CC	1,772	-
Wayne CC	237	0
Western Piedmont CC	270	92
Wilkes CC	-	-
Wilson CC	34	0
Total	12,962	948
TOTAL – ALL SCHOOLS	36,936	1,513

APPENDIX 1 – INDIVIDUAL AGENCY RESPONSES

3.2 WASTE CHARACTERIZATION ASSESSMENT	Solid Waste Assessment	Year of Most Recent Assessment
UNIVERSITY		
Appalachian State University	1	2013
East Carolina University	1	2015
Elizabeth City State University	1	-
Fayetteville State University	1	2015
N.C. Central University	-	-
N.C. State University	1	2015
UNC-Asheville	1	2013
UNC-Chapel Hill	1	2015
UNC-Charlotte	1	2015
UNC-Greensboro	1	2014
UNC-Pembroke	-	-
UNC-School of the Arts	-	-
Western Carolina University	1	2015
Winston-Salem State University	1	2014
Total	11	
COMMUNITY COLLEGE		
Alamance CC	-	-
Asheville-Buncombe Tech CC	-	-
Beaufort County CC	-	-
Bladen CC	-	-
Blue Ridge CC	-	-
Brunswick CC	1	2014
Caldwell CC & Tech Institute	-	-
Carteret CC	-	-
Catawba Valley CC	-	-
Central Carolina CC	-	-
Central Piedmont CC	1	2012
College of the Albemarle	-	-
Craven CC	-	-
Davidson County CC	-	-
Durham Technical CC	-	-
Edgecombe CC	-	-
Fayetteville Tech CC	-	-
Forsyth Technical CC	1	2013
Gaston College	-	-
Guilford Technical CC	-	-
Halifax CC	1	2015

3.2 WASTE CHARACTERIZATION ASSESSMENT	Solid Waste Assessment	Year of Most Recent Assessment
COMMUNITY COLLEGE		
Isothermal CC	-	-
James Sprunt CC	-	-
Lenoir CC	-	-
Martin CC	-	-
Mayland CC	-	-
Montgomery CC	1	2014
Nash CC	-	-
Pamlico CC	-	-
Pitt CC	-	-
Randolph CC	-	-
Richmond CC	-	-
Roanoke-Chowan CC	-	-
Rockingham CC	-	-
Sampson CC	-	-
Sandhills CC	-	-
South Piedmont CC	-	-
Southeastern CC	-	-
Southwestern CC	1	2014
Stanly CC	-	-
Surry CC	1	2015
Tri-County CC	-	-
Wake Technical CC	-	-
Wayne CC	1	2012
Western Piedmont CC	1	2015
Wilkes CC	-	-
Wilson CC	1	2014
Total	10	
TOTAL – ALL SCHOOLS	21	

