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INTRODUCTION

The Solid Waste Management Plan was prepared in accordance with N.C. General Statute 130A-309.09A for the purpose of meeting local solid waste needs and protecting public health and the environment. The sections of the plan are ordered as listed in the General Statute.

Through implementation of this comprehensive solid waste management plan and the plan updates that will follow every three years, the Franklin County planning area provides for management of solid waste and its reduction for the next ten years. The planning area includes Franklin County and the following municipalities: Louisburg, Franklinton, Youngsville, and Bunn.

Franklin County's long range vision is for a comprehensive waste management program. This program would provide disposal capacity, waste collection services, and waste reduction programs to all members of the community at an equitable price. Recycling is a key component of this plan, and increased recycling will be encouraged through additional education, by improving the recycling facilities used and by providing opportunities to recycle a variety of materials. The vision includes the elimination of improper disposal of waste and expanded waste reduction opportunities that are convenient for residents. The vision is for a community that understands the environmental benefits of waste reduction and proper waste disposal. Any financial expenditure incurred by the community will be kept at a reasonable level.

The impact of continued generation of solid waste at present rates must be clearly understood by county residents. Existing landfills within and outside of North Carolina boundaries are rapidly filling up. Citing of new landfills is extremely difficult and transportation costs to distant landfills will inevitably continue to escalate. Unless our population supports efforts to reduce solid waste generation and thereby extend the life of existing landfills, we will be faced with several undesirable alternatives. These include paying whatever the market demands for disposal, or seeking to landfill or incinerate our waste locally. We must clearly communicate these choices to our residents now to secure cooperation and financial support in developing our overall solid waste management plan.

Planning Area Goals

Goal 1: To provide everyone in the community with waste disposal capacity, waste collection services, and waste reduction opportunities.

Goal 2: To increase the efficiency and cost effectiveness of the solid waste program.

Goal 3: To promote recycling and maximize the number and types of materials that can be recycled.

Goal 4: To meet the established local waste reduction goals.

Goal 5: To decrease improper waste disposal and littering by promoting litter prevention and education programs.

Goal 6: To protect public health and the environment.

Goal 7: To encourage county government and the public to purchase products made from recycled materials in order to help develop a demand for recycle content products.

Part I. Geographic And Solid Waste Stream Evaluation

A. Geographic Area

The solid waste management plan covers Franklin County and its five incorporated municipalities. The majority of Franklin County residents live in unincorporated areas (Table 1). Data is provided by the North Carolina Census.

Table 1 – Population - June 30, 2009

MUNICIPALITIES & COUNTY	POPULATION
Louisburg	3679
Franklinton	2500
Youngsville	1168
Bunn	394
Centerville	107
Franklin County(unincorporated areas)	51079
Total	58927

The economy has slowed, and this has slowed growth for now. The southern part of Franklin County has ongoing industry development, residential development, and farmland. The demand for additional solid waste services is greater in this area. The northern part of Franklin County is growing slowly. The northern part of the county is rural and predominantly farmland or used for tree production.

Four of the municipalities have a contractor that provides solid waste collection and disposal. The four are Louisburg, Franklinton, Youngsville, and Bunn.

B. Waste Stream Evaluation

In this plan, Commercial waste refers to waste generated from commercial, industrial, and institutional activities. Commercial town waste is waste generated by the town residents. Construction waste refers to waste generated in the construction and demolition industry. LCID waste (land clearing and inert debris) refers to materials that include clean brick, block, concrete, asphalt, and clean types of lumber. Pallets/clean

wood waste refers to all skids or pallets, and all clean construction or industrial lumber (no treated or painted wood). Residential waste refers to waste generated by households (Waste from individual homes, apartments, rental homes, etc). Residential no charge waste refers to waste that is disposed at the solid waste transfer station by county and town residents. Site waste refers to the waste generated from the twelve county convenience centers. Shingle waste refers to shingles taken off a residence, including the plywood and framing lumber. Yard waste refers to bushes, plants, and parts of a tree (limbs, leaves, but no stumps) Transfer waste refers to waste transferred from Franklin County to another landfill or transfer station.

Franklin County and its municipalities disposed of an estimated 34655 tons of waste in FY 2008-2009. The waste disposed by sector is shown in Table 2. These calculations are based on actual weights from the Franklin County Solid Waste Transfer Station, and estimates of for the transferred waste.

Table 2. Estimated Waste Disposed By Sector, FY 2008-2009

TYPE OF WASTE	TONS	PERCENT OF WASTE STREAM
Commercial	8519	24.6%
Commercial town	1385	4.0%
Construction	4119	11.9%
LCID	1050	3.0%
Pallets/clean wood	206	0.7%
Residential	1196	3.4%
Residential no charge	1593	4.6%
Shingles	365	1.0%
Site waste	12854	37.1%
Yard waste	983	2.8%
Transfer Waste	2385	6.9%
Total	34655	100%

In addition, an unknown amount of LCID waste is disposed of at a privately owned facility called Organic Recycling. Novozymes operates a mulching facility where they accept yard waste and wooden pallets. Olde Castle operates a bark plant and mulching facility. Some waste of all types is being disposed of at illegal dumps across Franklin County.

Franklin County does not have a study of its residential waste. Therefore, Table 3- Estimates of Recyclable Tonnage, is taken from Volume I of the North Carolina Recycling and Solid Waste Management Plan. This study shows that the most prevalent materials in the residential waste stream are paper, plastics, and organic materials. Table 3 shows an estimated available tonnage that can be recycled and the current recovery rate in tons. This table shows that there is a large amount of material that can be recycled.

Table 3 Estimate of Recyclable Tonnage (FY2008-2009)

Material	Available Tonnage	Current Recovery (tons)
Aluminum/Steel Cans	896	0 43
Auto Batteries	380	25
Cardboard	6,239	326
Electronics	368	30
Food Waste	6,311	0
Glass	2,043	201
Mixed Paper/office paper	6,519	37
Newsprint/Magazines	2,470	347
Pallets	3,274	206
Plastic Bottles/Jugs	3,018	66
Textiles	1,360	17
Tires	846	174
Used Oil (gallons)	327 (99,889)	38 (10,992)
White Goods/metal	844	352
Yard Waste	10,000	1,312
Total	44,895	3,174

An examination of the major types of commercial and industrial firms that dispose of waste in the area can help in estimating the composition of commercial waste. Table 4 lists the major businesses and institutions with corresponding waste tonnage estimates and primary waste materials disposed. The most common commercial waste materials disposed of are paper, corrugated cardboard, plastics, pallets and crates. Several of these materials currently being disposed are potentially recyclable or reusable.

Table 4. Major Non-residential Waste Generators and Estimated Tons FY 2008-2009

SOURCES	TONS	MAJOR MATERIALS
Franklin Co. Government Offices	1800	Paper, cardboard, aluminum
Louisburg College	400	Paper, cardboard, aluminum
Franklin Regional Medical Center	120	Paper, Cardboard, food
Welsh Paper	200	Cardboard, foam/plastic packaging
Nomaco	390	Cardboard, foam/plastic packaging
Captive Aire	800	Pallets, metal, cardboard

Part II. LOCAL WASTE REDUCTION GOALS

The original ten-year waste reduction goal for FY 2000-01 was 25% and the original ten-year waste reduction goal for FY 2005-06 was 40%. Due to population growth and a change in economics in Franklin County, these goals were not achieved. Franklin County must devote more time and funding, and increase the educational efforts to achieve all future waste reduction goals. New goals that are more realistic and achievable are outlined in this ten year plan update.

Franklin County has established a local goal of 15% waste reduction to be reached by June 30, 2014, and a further goal of 20% to be reached by June 30, 2019.

The waste reduction goals can be converted from percent to tons diverted by examining population estimates (North Carolina Office of State Planning) and future waste disposal figures (Franklin County Solid Waste Department). The baseline year (FY08-09) disposal rate is .59 tons per capita (The per capita disposal rate is determined by dividing the total waste disposed by the population). At this per capita disposal rate, Franklin County would dispose 39,113 tons in FY 2013-14 and 43,459 tons in FY 2018-19.

Table 5 Five and Ten-Year Waste and Population Projections

YEAR	POPULATION	WASTE DISPOSAL	PER CAPITA DISPOSAL RATE
Baseline Year, 2008-2009	58,927	34,655	0.59 tons per person
YEAR	PROJECTED POPULATION	PROJECTED WASTE DISPOSAL	//////////////////// //////////////////// ////////////////////
FY 2013-2014	66,293	39,113	0.59 tons per person
FY 2018-2019	73,659	43,459	0.59 tons per person

To meet the local goal of 15% per capita waste reduction in FY 2013-14 and 20% in FY 2018-19, Franklin County must reduce its per capita disposal rate to 0.50 tons per capita and 0.47 tons per capita respectively (see table 6). Using the new per capita rates, the target annual tonnage remaining for disposal by Franklin County would be 33,246 tons in FY 2013-14 and 34,767 tons in FY 2018-19. In other words, 5,867 tons of future annual waste disposed must be diverted from landfills by FY 2013-14 and 8,692 tons annually by FY 2018-19.

Table 6 Targeted Waste Reduction, FY 2013-14 and 2018-19

CALCULATIONS	FY 2013-14	FY 2018-19
Baseline year per capita disposal rate	0.59	0.59
Targeted per capita disposal rate for FY 2013-14 and 2018-19	0.50	0.47
Population for July 2013 and July 2019	66,293	73,659
Projected tonnage for disposal in FY 2013-14 and 2018-19 at baseline disposal rate	39,113	43,459
Targeted annual tonnage for disposal in FY 2013-14 and 2018-19 at targeted goal rate	33,246	34,767
Targeted annual tonnage to reduce in FY 2013-14 and 2018-19	5,867	8,692

Part III. MEETING THE WASTE REDUCTION GOALS

This plan is designed to reduce Franklin County's waste by 5,867 tons in FY 2013-14 and 8,692 tons in FY 2018-19. To do this, Franklin County will target the types of waste generated as shown in Table 7. How these wastes will be targeted is addressed below. More detailed descriptions of specific waste reduction activities planned appear in Part V.

Table 7. Approximate Waste Reduction by Sector, FY 2013-14 and 2018-19

WASTE TYPE	TARGETED TONS TO REDUCE IN FY 2013-14	TARGETED TONS TO REDUCE IN FY 2018-19
Residential\Site Waste	3,000	4,000
Commercial	2,467	3,692
Construction	400	1,000
Totals	5,867	8,692

The goal for reducing waste will be accomplished through source reduction, recycling, reuse, mulching, and handling special waste such as used oil and antifreeze. This will be discussed in detail in Part V.

Part IV. THE PLANNING PROCESS AND PUBLIC PARTICIPATION

The Franklin County Solid Waste Department developed the updated plan with input from the Solid Waste Task Force. All towns (excluding Centerville) supplied Franklin County with updated solid waste disposal and collection and recycling information.

The Ten-Year Plan was reviewed and adopted at a public meeting of the Franklin County Board of Commissioners on Monday, May 18, 2009. The plan is scheduled for review and adoption by all the municipalities. All supporting resolutions are included (see Appendix B). The plan is reviewed yearly and updated every three years.

Copies of the ten-year plan will be placed in various county office buildings and libraries. The municipalities will also have copies available.

Part V. Solid Waste Management Methods: Assessment of Programs and Description of Intended Actions

Each solid waste management method as required by North Carolina G.S. 130A-309.09A (b) is described below:

A. Source Reduction

Current Program: The definition of source reduction is the reduction of materials at the source that produces a waste product. An example is buying a more durable product that lasts longer, or investigating how supplies are packaged and what waste will be produced.

Currently source reduction education in Franklin County is limited. Solid Waste Department employees present educational programs to county schools and a variety of church and civic groups on the subject of source reduction.

Intended Actions: Franklin County offers speakers and educational materials to different civic groups, clubs, schools, and churches. Solid Waste Department employees also present materials to the public through public events like the Tar River Festival and Fun in the Sun. Topics covered include buying reusable items, buying recycled items, and recyclable packaging.

The Solid Waste Department will develop a source reduction goal that will encourage county departments to use fewer disposable items, purchase items with longer life, purchase products made from recycled materials and double-siding all documents. This program will also be available to all municipalities.

Source reduction will be promoted using advertisements on the local radio station and with advertisements in the local newspaper.

The “Curtail Your Junk mail” program will allow county residents to obtain postcards addressed to the major firms that sell names and addresses to advertising firms. The cards will enable residents to request removal of their names from mailing lists supplied to advertisers. The kits will be available to the residents at each of the Franklin County Library branches.

Franklin County offers source reduction visits to all the industries in the county. Companies will be visited by trained employees to tour the industry and help identify possible ways to reduce waste production. It will save the company money and reduce the amount of waste disposed of at the Franklin County Solid Waste Transfer Station.

Industry representatives will be encouraged to call the North Carolina Department of Environment and Natural Resources, Division of Pollution Prevention and Environmental Assistance for a waste audit. Advice is provided at no cost to the industry.

B. Collection of Solid Waste

Current Program: Franklin County provides twelve convenience centers for solid waste collection. The sites are located throughout Franklin County with each resident being within approximately 10 miles from a site (See Appendix C for location of each site). Each convenience center has one compactor unit and two open top containers for waste (some sites have additional open top containers). Franklin County owns all solid waste and recycling containers at each site. Franklin County manages each convenience center. An attendant is on duty at each site. Waste Management provides the hauling of the solid waste containers from sites 1,2,3,4,9,10 and 11 to the Franklin County Solid Waste Transfer Station. Franklin County provides the hauling of solid waste containers from sites 5,6,7,8, and 12 to the Franklin County Solid Waste Transfer Station. The hours of operation for the convenience centers are: Monday, Wednesday, Friday and

Saturday – 7:00AM to 7:00 PM and closed on Tuesday Thursday, and Sunday.
Recycling containers are also stationed at the convenience centers.

Private solid waste haulers provide house to house pick up service in the unincorporated areas of Franklin County. Private haulers include: Waste Industries-800 households, Shaw Sanitation-1000 households, Glenwood Alston-300 households, Hartsfield-75 households, Edward Street-75 households and unknown haulers-250 households. Approximately 2500 households are serviced by private haulers.

A Solid Waste Availability fee of \$45 is collected from each livable unit with an electric service connection. Exemptions include senior citizens (Defined by the Tax office), shops, barns, and churches. A portion of property taxes collected fund the Franklin County solid waste collection process. Each person that owns real or personal property pays taxes. The municipalities are included in the county property taxes.

Franklin County has a Solid Waste Ordinance. The ordinance regulates the handling and disposal of all types of solid waste. The ordinance also regulates the operation and the intended use of both the solid waste transfer station and the twelve county convenience centers. A copy can be obtained by calling the Solid Waste Department at 919-496-5002.

Waste Industries provides waste collection for the towns of Bunn, Franklinton, Louisburg, and Youngsville.

The Town of Bunn contracts with Waste Industries to provide one time per week waste pick up on Wednesdays. There are 166 residential customers and one commercial customer. No other service is provided. Estimated annual cost of collection is \$30,923.00.

The Town of Franklinton has Waste Industries pick up waste once per week at the back door on Tuesdays. Town employees use a town vehicle to collect leaves during leaf season (November to February). Town employees collect white goods on the last Friday of every month. The white goods are brought to the county transfer station to be recycled. Commercial accounts contract directly with a waste company for solid waste collection. Additional services and containers are available for an additional cost. Franklinton has 848 residential stops and 54 commercial stops.

The Town of Louisburg contracts with Waste Industries to pick up waste twice weekly on Mondays and Thursdays at the backdoor. The Town of Louisburg employees provide weekly curbside garbage/bulk materials and for yard waste. Town employees provide this service using town trucks. Town employees provide leaf collection at the curb from November 1 to February 1. All leaves are given to town residents and to some county residents for mulch. White goods can also be left at the curbside for pickup for an additional charge. All construction material must be handled separately by the town residents. Commercial customers contract directly with a waste company to receive waste collection. Additional dumpsters and service are available for additional fees. There are 1076 residential stops.

The Town of Youngsville contracts with Waste Industries to provide once per week residential pick up at the curbside on Wednesdays. Recycling bins are located on N.E. Railroad Street for Youngsville residents. Material recycled includes clear, brown, and green glass, plastic bottles (milk, soda, and water), steel cans, and newspaper. Town employees use a town vehicle to pick up white goods and other bulk materials. Organic material including limbs and leaves are picked up by the town employees. There are approximately 529 accounts in the Town of Youngsville.

The towns dispose of solid waste at both the Franklin County Solid Waste Transfer Station and the Vance County Solid Waste Transfer Station. Approximately 2385 tons of residential and commercial solid waste will be shipped to the Vance County Solid Waste Transfer Station in FY08/09. All town residents may use the county transfer station for disposal of items including white goods, old tires, auto batteries, yard waste and construction/demolition materials. Town residents may use any of the 12 county convenience centers to dispose of household waste and some bulk items (furniture, mattress, etc).

Table 8 shows the hauler information and the types of material hauled.

Table 8. Waste Hauling Information, FY 2008-2009

HAULERS	RESIDEN- TIAL	COMMER- CIAL	SITE WASTE	PALLETS YARD WASTE	SHINGLES
Waste Industries	X	X		X	X
Waste Management		X	X		
Ed Street	X				
Glenwood Alston	X	X		X	X
Shaw	X				
Contractors/ Landscapers	X	X		X	X

Intended Actions: Franklin County will continue to use the convenience centers for county residential waste disposal. Self-contained compactors will be used for the sites to improve the problem with leaking fluids from the compactor. Additional open top containers will be used for bulky waste. Private haulers will continue to service residents at their homes due to demand from for door-to-door service in Franklin County.

The convenience center contract with Waste Management will be re-bid with an option for Franklin County to provide all services. The contract ends on February 1, 2011.

A business plan will be developed for each of the twelve convenience centers. The plan will give the optimum size for each convenience center, and the plan will provide the location of all containers on site. The plan will show the layout of fencing, landscaping, signage, whether the site is paved or has a gravel base, and the direction for the flow of traffic in and out of the site. Total funding needed for the optimum site will be provided. The business plan will be completed in FY 2009-2010.

The Solid Waste Department will investigate an option to franchise part of the Franklin County. Door to door pickup and recycling would be offered to all households in Franklin County.

All towns will be encouraged to evaluate their collection process. The goal is to make the collection process more efficient, user friendly, and to encourage a recycling program that can be used by both residents and businesses.

Franklin County became an affiliate of Keep America Beautiful, and hired a Keep America Beautiful Coordinator in October of 2000. Duties include the promotion of the solid waste collection and disposal services, recycling services, and litter prevention programs that are available in Franklin County.

C. Recycling and Reuse

Recycling

Current Program: Franklin County has had a recycling program in place since 1987. Currently, Franklin County recycles approximately 8.7% of the total waste. Recycling containers are located at each of the twelve county convenience centers. The following items can be recycled: newspapers, magazines, corrugated cardboard, office paper, aluminum, glass (clear, brown, green and blue), plastic bottles (soda bottles, water bottles, and milk jugs), steel or metal cans, clothing, auto batteries, used motor oil (4 sites), agricultural chemical containers for farmers only (3 sites), metal/appliances, tires, yard waste/wooden pallets, televisions, computers and other electronics.

There are additional town recycling centers in Bunn, Franklinton, Louisburg and Youngsville. Materials collected vary for each town.

Franklin County operates one expanded recycling station at the former county landfill (Now the Franklin County Transfer Station). Residents may bring materials to be recycled that include: newspapers, magazines, corrugated cardboard, office paper, steel/tin cans, mixed plastic bottles, glass(three colors), aluminum, scrap metal, appliances, tires, auto batteries, yard waste, pallets/clean lumber, computers/select electronics and used motor oil. Old furniture, appliances, lawn mowers, tools, and other working items are given away.

A Recycle Refund Program will be investigated as an option to increase the recycled product numbers. Each resident would be given a credit for each bag of recycled

material. The credit would be done at the convenience center. The Solid Waste Department would issue a refund annually. This would help increase the recycling program.

Franklin County collects mixed office paper in the county school buildings, county government offices, libraries, and some private businesses.

The following items are currently banned from solid waste disposal: ABC beverage containers, newspapers, corrugated cardboard, aluminum cans, yard waste, oyster shells, wooden pallets/crates, white goods, whole scrap tires, antifreeze, used motor oil, and lead acid batteries. Beginning October 1, 2009, the following items will be banned: motor oil filters, recyclable plastic bottles, and wooden pallets. Televisions are banned-January 1, 2011. Computer Equipment is banned beginning January 1, 2012.

Table 9 shows the residential recycling in tons currently collected by Franklin County. The Town of Youngsville recycled a total of 17 tons of mixed materials in 2008 to 2009.

Table 9. Residential Recycling in Tons, FY 2008-2009

MATERIAL	COUNTY TONS
Aluminum/Steel Cans	43
Auto Batteries	25
Cardboard	326
Electronics	30
Food Waste	0
Glass	201
Mixed Paper/office paper	37
Newsprint/Magazines	347
Pallets	206
Plastic Bottles	66
Textiles	17
Tires	174
Used Oil (gallons)	38 (10,992)
White Goods/metal	352
Yard Waste	1312
Total	3174

Franklin County has a school recycling program. All 15 county schools have containers to recycle corrugated cardboard, steel cans, and aluminum cans. Also six county schools have newspaper recycling containers. Speakers are provided to the schools on topics like waste management, source reduction, litter prevention and recycling. Aluminum Can Contests are held for school children two times per year. Children receive money for the

aluminum they bring to sell and they receive prizes for participating. Adults can sell their aluminum also on the contest days.

Franklin County provides pick up from county government offices and local businesses for recyclable items. Recyclable items collected include newspapers, mixed paper, plastic bottles, and aluminum cans.

Table 10. Comparison of Potential Tons of Recyclable items---
Tons of Actual Items Recycled---List of available markets FY 2008-2009

MATERIAL	ESTIMATED TONS DISPOSED	TONS RECYCLED	AVAILABLE MARKETS
Aluminum/Steel Cans	896	43	Sonoco Recycle America
Auto Batteries	380	25	Tony Hill
Cardboard	6,239	326	Recycle America
Electronics	368	30	Creative Recycling Synergy
Glass	6,311	0	Recycle America
Magazines	2,043	201	News and Observer Sonoco
Mixed Paper/Office Paper	6,519	37	Sonoco
Newsprint	2,470	347	News and Observer Sonoco
Pallets	3,274	206	County
Plastic Bottles	3,018	66	Recycle America
Textiles	1,360	17	Safe Space Missions of Hope
Tires	846	174	Central Carolina Tire
Used Oil (gallons)	327 (99,889)	38 (10,992)	Noble Oil
White Goods/Metals	844	352	USA Auto, CRG, Foss
Yard Waste	10,000	1,312	Shavender Trucking Katesville Pallet

All municipal residents may use the convenience centers or town recycling centers to drop off recyclable materials.

Small businesses are allowed to use the convenience centers. They are required to separate all recyclable items. Cardboard, newspaper, magazines, glass and aluminum must be recycled. A large company or industry is encouraged to contract a private company for their recycling services.

Franklin County provides industry audits. A Franklin County employee will visit an industry site, and the employee will go through the site from beginning to end, and identify the materials that can be recycled. Recycling is occurring in many industries.

Table 11. Potential New Recycling Markets

MATERIAL	AVAILABLE PROCESSOR/MARKET
Paint	Chemtec, Ecoflow, Pollution Control Ind.
Rechargeable Batteries	Recharge in America
Antifreeze, Used Motor Oil Filters	Noble Oil Company
Telephone Directories	Paper Stock, Recycle America
Fluorescent Light bulbs	Safety Clean
Plastic Wrap/packaging, Foam	Orange Recycling

Franklin County has a Solid Waste Programs Brochure. It gives good information about recycling in Franklin County, promotional materials available, convenience center locations, recycling information, litter information and much more. Call 919-496-5002 to get a copy.

Franklin County developed a web site in FY 2002-2003. The web site provides information regarding solid waste management, litter prevention and recycling. It also provides operational hours and functions for the solid waste transfer station and the twelve county convenience centers. The web site can be reached by a link on the Franklin County Web Site-www.co.franklin.nc.us-click on Solid Waste.

Direct contact can be made by sending an email to: jfaulkner@franklincountync.us or eshearin@franklincountync.us

Franklin County hired a Keep America Beautiful Coordinator in October of 2000. The duties of this employee include promoting litter education, recycling options, and waste reduction programs available in Franklin County. Educational programs are provided for school age children, businesses, government offices, civic groups, and many more. Education is the key to better recycling programs. Promotional materials used include: pens, pencils, rulers, activity books, stickers, calendars, tote bags, magnets, and much more.

Intended actions: The residential recycling program provides options for materials that can be recycled. Participation is the key. Franklin County must educate the residents on the importance of recycling. The potential for recycling is very good because the percentage of residential waste produced in this county is large (49%). Franklin County will hold community meetings, work with the schools, put information on the radio and in the local newspaper, and distribute handouts. Containers for additional recyclable materials will be added to the convenience centers to increase recycling tonnage.

Franklin County will continue to conduct industry audits to identify materials that can be recycled. Materials that could be recycled are: foam, plastic packaging, clean wood

waste, metal, and pallets or skids. Increased recycling would save the industries money and save space in the county solid waste transfer trailers.

Franklin County will revive an awards program called “The Waste-busters Awards Program”. The award is given to a group, business or a resident that makes progress toward reducing waste. The business or resident is judged on recycling, waste reduction, reuse, purchasing recycled content items, and company policies. Winners of the award are given a certificate, recognized at a commissioner’s meeting and their name is placed on a plaque in the county tax administration building.

Franklin County will investigate adopting additional solid waste disposal bans for specific items that can be readily recycled.

Franklin County will paint all the containers and equipment at the convenience centers on a regular basis (Every 3 to 4 years). Recycling containers are green, and the solid waste containers are brown. The new paint and cleaning will improve the aesthetics of the sites. New signs (Bi-lingual signs) will be placed on each container.

Franklin County will establish an antifreeze collection site. Fifty-gallon drums will be used in the initial stages for recycling the antifreeze.

Franklin County will establish used motor oil filter collection sites and use a private contractor to provide containers and collection of the used oil filters.

Reuse

Current Programs: County employees conduct programs on reuse in the schools and for civic, church or other groups. Franklin County salvages items like old furniture, lawn mowers or other used equipment. Useable items are given away to the residents. Used pallets and old lumber are given away for reuse also. Old concrete and brick are used for erosion control on the old closed landfill.

Local churches offer give away and yard sale materials. Used items are given to people in need and also sold at a minimum rate to raise funds for mission work. There are charitable organizations that handle used clothing, furniture and all types of items. Items that are reusable are given to or sold to needy families. The organizations are Care and Share, Habitat for Humanity, Missions of Hope, and Safe Space.

Intended actions: Franklin County will continue to promote the current reuse programs. Information will be distributed to all county residents.

D. Composting/Mulching

Current Program: Franklin County operates one yard waste disposal area. It is located at the closed landfill. The area is large enough to handle debris produced by residents and businesses. Yard waste consists of leaves, limbs, trimmings off a bush or tree and

the body of the tree no larger than 12 inches in diameter and 6 feet long. This area also receives clean wood such as framing lumber and pallets or skids. Franklin County contracts with a private company to grind all the wood waste debris. The ground wood waste is used for boiler fuel.

Franklin County has two additional yard waste areas that can be used in the case of adverse weather. The sites have been used for handling storm debris from past hurricanes and ice storms.

Intended Actions: Franklin County will investigate working with companies on composting or mulching projects. Novozymes operates a composting project that will combine all types of wood waste with their enzyme sludge waste. Novozymes makes a mulch product. Olde Castle Bark Products makes a variety of bark products, and they will also be producing colored mulches. Franklin County will work closely with both companies in an effort to recycle additional wood products.

Franklin County purchased an additional 109 acres that will provide an option for further handling of various types of wood waste. A proposal for this operation will be developed in Fiscal Year 2009/2010

E. INCINERATION WITH/WITHOUT ENERGY RECOVERY

Franklin County does not have any plans to use any type of waste incineration process. The cost is too high and does not present the county with an economical option for waste disposal.

F. DISPOSAL OF SOLID WASTE

Current Programs: Franklin County closed the county landfill on April 7, 1994. The landfill closed due to a lack of space, groundwater contamination, and the high cost of continuing under the new solid waste rules. The landfill was in operation for 21 years.

Groundwater contamination is being monitored twice per year. Franklin County has signed a consent order agreement with the state of North Carolina to continue monitoring the groundwater at the closed county landfill. Franklin County has purchased the adjoining property on three sides of the landfill, providing a buffer zone to all surrounding landowners.

Franklin County is currently operating in a new Solid Waste Transfer Station, located at the closed landfill site on Timberlake Road. Franklin County built a transfer station that is approximately 100 feet by 100 feet in size under a metal cover and an additional 100 foot by 50 foot concrete apron. Franklin County uses two loaders to load the transfer trailers. The waste is packed down with a tamper that attaches to one of the loaders. All waste, except yard waste, tires, appliances, auto batteries, used motor oil, clean concrete, clean wood, and pallets, is shipped out to a regional landfill (determined by the current waste hauler under contract with Franklin County).

Franklin County entered into a five year contract (October 9, 2008 to October 8, 2013) with Waste Industries, of Roseboro to provide the hauling and disposal for all solid waste from Franklin County.

Franklin County operates a yard waste, wooden pallet, and clean wood collection area. This material is ground up and used for boiler fuel.

Franklin County also operates a beneficial fill disposal area. The following materials are accepted: clean concrete, brick, rock, and asphalt.

The hours of operation for the Solid Waste Transfer Station are Monday through Friday, 7:00 AM to 3:30 PM for paying customers and from 7:00 AM to 3:30 PM for residents. On Saturday, the hours are 7:00 AM to 1:00 PM for paying customers and 7:00 AM to 5:00 PM for residents.

Intended Actions:

Franklin County will investigate other disposal options. The options include: A county owned and operated landfill, a landfill that would be shared by an adjoining county, and a construction and demolition landfill/Recycling Facility.

There are three regional landfills that give Franklin County an option for solid waste disposal. Republic Waste has a landfill located in Person County in North Carolina. Allied Waste has a landfill located in Lawrenceville, Virginia. Waste Industries has a landfill in Roseboro, North Carolina. Franklin County Solid Waste currently contracts with Waste Industries and uses the Roseboro Landfill.

Waste Industries constructed a Solid Waste Transfer Station for Vance County in FY97/98. They hauled approximately 2385 tons of Franklin County waste to their facility and dispose of it at the Republic Landfill in Person County in FY 2008-2009.

Franklin County will investigate an option to construct a Construction and Demolition Recycling Facility. The Construction and Demolition Recycling Facility would operate a separation area where materials like concrete, sheetrock, wood, cardboard, etc. would be separated and recycled. Franklin County could then provide a cheaper disposal rate for bulky construction and demolition waste. The construction and demolition landfill would have the potential to produce funds for future projects.

Franklin County has experienced a number of storms in the past fifteen years. Franklin County has three storage areas to use for storm debris storage and handling. This worked well in past years to allow Franklin County to handle the cleanup and disposal of the storm debris. Franklin County has a good working relationship with the North Carolina Department of Transportation, the North Carolina Forest Service and the Office of Emergency Management. The cooperation of all agencies is important when there is damage due to adverse weather conditions.

Organic Recycling Landfill is a private landfill that handles all types of stumps, tree debris and some clean concrete. It is located on U.S Highway #1 in Franklin County between Franklinton and Youngsville.

Franklin County will improve the process of education. People need to be educated about the solid waste disposal process. Information will be distributed to all residents, towns, businesses, contractors, groups, and much more. More radio and newspaper advertisements will be used. The Solid Waste Programs Brochure will be distributed.

Part VI. Education, Special Waste, Illegal Disposal, and Purchasing: Assessment of Programs and Description of Intended Actions.

A. Community, School, and Industry Education

Community Education

Current Programs: The Solid Waste Manager and the Keep America Beautiful Coordinator provide information on topics of waste management, litter prevention and recycling. Promotional materials are also ordered that include pens, pencils, bookmarks, activity books, calendars, tote bags, and much more. Franklin County has a Solid Waste Programs Brochure that gives information on solid waste disposal and collection, recycling, and litter prevention information. Presentations are made to civic, church, school and other groups.

Educational materials are available from the North Carolina Division of Environmental Assistance and Pollution Prevention, The North Carolina Office Of Environmental Education, The Environmental Protection Agency, The American Plastic Council, The Environmental Defense Fund and many more.

Intended Actions: Franklin County will focus on the twelve county convenience centers and the towns. Residential and town wastes represent approximately 49% of the waste generated in Franklin County. The residents producing this type of waste will be targeted to teach them better waste reduction and recycling practices. Industry is the next largest producer of recyclable materials that will be targeted, with local government being the last potential group.

Franklin County will become more involved with the civic groups, church groups, The Chamber of Commerce, The Committee of 100, The Franklin County Builders Association, and The Franklin County Industry Association. These organizations can be used to promote good solid waste management and recycling programs in Franklin County.

School Education

Current Programs: Franklin County currently has a recycling representative in each of the fifteen schools. This person is responsible for waste management, litter prevention and recycling education for their particular school. The Solid Waste Manager and the Keep America Beautiful Coordinator give presentations to children of all ages and provide promotional items to each of the schools. These items include pencils, bookmarks, stickers, activity books, etc.

The Cooperative Extension Service provides organized programs for school age children. Summer programs are available. Many of their programs involve environmental education. Call 919-496-3344 for a list of programs and contacts.

Intended Programs: Franklin County will be involved with the school recycling through representatives in each county school and the cooperative extension agents. Greater coordination in a combined effort will improve the solid waste management, litter prevention education and recycling education efforts in Franklin County.

Franklin County will include the Parent, Student, and Teacher Associations in all future programs.

Tours will be arranged for classes to come and see the solid waste operation. It will include the closed landfill, the transfer station, metal collection, tire collection, and the convenience centers.

Industry Education

Current Programs: Franklin County provides information to all industries for waste management and recycling issues.

The Division of Pollution, Prevention and Environmental Assistance is available to provide industry audits and information.

Intended Programs: Franklin County will conduct industry audits where a trained county employee will visit the industry and all waste reduction and recycling items will be recorded. Targeted items will include foam, plastic wrap\packaging, paper, cardboard, metal, and pallets. This will help reduce industry waste, save the industry money, as well reduce the overall waste transferred out of Franklin County.

Franklin County will monitor the commercial and industry waste that is disposed at the Solid Waste Transfer Station. Items that can be recycled or diverted for other use will be targeted. Franklin County will contact the company that produces a waste item that could be separated and recycled.

B. Special Waste Management

Electronics

Current Programs: Franklin County Solid Waste collects electronics (Computers, Televisions, cell phones, copiers, etc) at the Franklin County Landfill on Timberlake Road. Electronic product recycle companies include Creative Recycling and Synergy.

Intended Programs: Franklin County Solid Waste has remodeled the old Animal shelter to use for electronic recycling, fluorescent light recycling and some hazardous waste collection. Franklin County Solid Waste received a \$6,000.00 grant to help with costs of the program.

Tires

Current Programs: Tires are collected at the closed landfill on SR1109. Franklin County uses the old solid waste transfer station for tire storage and loading. The tires are dropped on the concrete floor and county employees load the tires into the top of the trailer just like garbage is loaded. Two trailers are used to store tires. Franklin County uses Central Carolina Holdings, LLC in Cameron, North Carolina to handle and process the tires. Central Carolina Holdings, LLC is called when a trailer is loaded. The trailer is picked up and an empty trailer is left to be used for the next load. 20% of the tires are recycled and 80% are shredded and landfilled .

Franklin County uses the statewide tire tax funds to collect and dispose of old tires.

Intended Programs: Franklin County will investigate the options for tire disposal. There are other companies working in the tire market, but the cost and ease of loading for disposal varies greatly. The cost to dispose of tires is \$ 76.00 per ton.

Franklin County will assist on clean up projects for old tires dumped illegally or left at abandoned businesses.

White Goods/Scrap Metal

Current Programs: White goods (appliances-refrigerator, stove, washer/dryer, etc.) and other metal items are collected at the closed landfill on SR 1109. Approximately 352 tons of white goods and scrap metal were collected in Fiscal Year 2008-2009.

Metal recycling is handled through a bid process. Companies bid for the metals every three to four months. The company that is awarded the bid removes all metal, leaves the collection area clean, and processes all coolant containing units. A report is given to Franklin County recording the number of coolant containing units processed and the amount of coolant collected.

The white goods tax funds all of the costs involved in handling and storage of white goods and metals on site.

Franklin County investigates sites where white goods and other waste are illegally dumped. The North Carolina Department of Transportation provides assistance with the clean up.

Intended Programs: Franklin County will develop a stricter policy for handling illegal white good dump sites.

Special white goods collection days will be promoted and provided in different areas of the county.

Franklin County will request grant funds from the State of North Carolina to install a new concrete storage pad for white goods and metal collection.

Lead-Acid Batteries

Current Programs: Lead-acid batteries are collected at all twelve county convenience centers. Tony Hill, a local vendor in Henderson, recycles the auto batteries. Local auto stores and retailers that sell new batteries also accept the old battery in trade. Franklin County accepted approximately 2600 batteries in FY 08-09.

Intended Programs: Lead acid battery collection will be increased through public awareness programs. Franklin County will advertise the collection of used batteries in the local newspaper and on the local radio station.

Franklin County will improve the collection area and process to prevent any hazardous material spills.

Used Motor Oil/Oil Filters

Current Programs: Used motor oil is collected at four county convenience centers (Landfill, Moulton, Highway 56, and Five Points). A 300-gallon tank is provided at each site for all residents of Franklin County. It includes motor oil, hydraulic oil, gear oil and other types of lubricating oil. Franklin County can not accept antifreeze, brake fluids, solvents or mixed unknown fluids in the used motor oil recycling container.

Noble Oil Services of Sanford, North Carolina picks up the used oil every two to four weeks at no charge. Noble Oil picks up oil mixed with water for \$.46 per gallon. Noble Oil will dispose of contaminated oil with other mixed fluids at an agreed upon price.

Containers for used motor oil filters were installed to comply with the new state law.

Intended Programs: A list of auto supply stores or mechanic shops that accept used motor oil will be compiled. This list will be distributed to county offices and

convenience centers to help advertise used motor oil and used motor oil filter recycling sites.

Used motor oil and used motor oil filters recycling will be promoted through the radio and newspaper. Collection sites will help prevent illegal dumping of used motor oil on the ground.

Antifreeze

Current Programs: Antifreeze collection containers were added to comply with the newly adopted state law.

Intended Programs: Advertising will promote the location of antifreeze containers and promote antifreeze collection.

Mobile Homes

Current Programs: There is no program available at this time.

Intended Programs: The Planning Department and the Solid Waste Department will develop a policy to address old abandoned mobile homes. The program will be designed to help remove old units that are no longer used and have become an eyesore to the community. Funds from the state of North Carolina are available to help with the removal and disposal of the mobile home units.

Household Hazardous Waste

Current Programs: There is no official household hazardous waste collection program in Franklin County. This type of program is very expensive to operate. Most research shows that the dominant hazardous material is old paint.

The Cooperative Extension Service holds a Pesticide Collection Day in cooperation with the North Carolina Department of Agriculture. It is a very successful program.

Franklin County has established three pesticide container collection sites for farmers in the county (Five Points, Highway 56, and Southern States). These collection sites will be promoted to all farmers.

Intended Programs: Franklin County will investigate having a hazardous waste collection day for residents. All types of items would be collected including herbicides, insecticides, fungicides, paint, old fuel, antifreeze, etc. Paint is the dominant product that is seen in the waste stream. Program literature will be created and distributed. Franklin County will contract with a company to handle these materials.

Disaster Debris

Current Programs: Franklin County Solid Waste provides three storage areas for disaster debris. One area is our yard waste and pallet storage area and two additional sites on site can be used for handling disaster debris.

A disaster can include hurricanes, tornadoes, ice storms, flooding, etc. Disaster debris can include yard waste, deconstruction waste, household waste and metal or appliances.

Intended Actions: Investigate locating sites in different areas around Franklin County.

Bird Flu Disposal

Current Programs: There are no current programs.

Intended Programs: A plan will be developed in cooperation with Cooperative Extension and the North Carolina Department of Agriculture. This plan will include a separate area for handling and disposal of bird flu animals.

C. Prevention of Illegal Dumps, Management of Litter and Illegal Burning

Illegal Disposal-Operated Sites

Current Programs: Franklin County adopted a Solid Waste Ordinance in Fiscal Year 1993/94. The ordinance required that all types of solid waste be disposed of according to local, state and federal law. Franklin County has dealt with reported cases of illegal dump sites for construction, demolition, stump, and tree debris.

Franklin County developed a notice to be handed out in the county planning office that defines the correct methods for disposal of construction and demolition waste.

The North Carolina Solid Waste Section inspector is notified of all illegal construction and demolition dumps in Franklin County. A state notice of violation is usually issued stating the expected cleanup procedure.

The Solid Waste Manager can issue fines up to \$500.00 per day for illegal dumping violations.

The Solid Waste Task Force has cleaned up five illegal dump sites in cooperation with the North Carolina Department of Transportation. The sites were completely cleaned up and signs were put in place that stated no dumping is allowed.

Intended Actions: Franklin County will continue to improve and strengthen its Solid Waste Ordinance. A stronger notice of violation with fines will be used. The violation

should clearly state the type of violation, the fine associated, and the expected clean up action to be taken by the violator. Failure to comply will result in further penalties.

The Sheriff's Department will help enforce the Solid Waste Ordinance and the litter and illegal dumping laws in Franklin County. The Sheriff's Department is used as needed.

The Franklin County Solid Waste Department will work closely with the county code enforcement employee. This employee works with complaints regarding abandoned vehicles, old mobile homes, junky yards, and illegal dumping.

Litter Management and Promiscuous Dumping

Current Programs: The Franklin County Solid Waste Ordinance addresses the proper methods to dispose of all solid waste. Residents discard large amounts of litter on the Franklin county roadsides.

April 22, Earth Day, is promoted every year with a two-page article in the newspaper, public service announcements on the radio, and educational materials given to the school age children. The theme of Earth Day promotes care for the environment.

Keep America Beautiful conducts the Big Sweep Program in Franklin County. This is an annual program that cleans up certain streams, creeks, and public parks.

Franklin County Government employees and volunteers take part in the North Carolina Litter Sweep Program that is held in the spring and the fall. A site is selected and the area is cleaned up and made free of litter.

A Solid Waste Programs Brochure is available. It provides information about solid waste collection and disposal, recycling, litter education, some dos and don'ts, and much more. Call 496-5002 to get a copy.

Intended Actions: The Solid Waste Ordinance will be improved to help deal with litter problems. A good education program will need to be put in place for the residents of Franklin County.

Franklin County Solid Waste will support Senate Bill 641-The Litter Reduction Act of 2009. This bill would establish deposits on all beverage containers. Buy back centers, where you may sell the beverage containers and reclaim the deposit, would be established all across the state of North Carolina. This bill would greatly reduce roadside litter and increase recycling. To Support Senate Bill 641, please go to the following website: www.nclitterreductionact.com.

A Keep America Beautiful program was established (October 2000). The Keep America Beautiful Coordinator promotes litter prevention programs and provides education to the residents, civic groups, contractors and businesses.

Franklin County will enforce the rules on transporting waste throughout the county. Litter lost off contractor vehicles and off waste hauling vehicles is a serious problem. All loads must be covered and secured.

The North Carolina Adopt A Highway program is under-utilized. The Keep America Beautiful Coordinator will promote this program. Franklin County will promote new programs including Adopt-An-Intersection and Adopt-A-School. Intersections are always littered and schools are good places to promote litter free areas.

Franklin County will continue to ask for assistance from the North Carolina Department of Correction in Butner and in Bunn to help provide roadside clean up using inmate labor. The prison crews have really improved the roads in Franklin County. This program has worked well.

North Carolina Department of Transportation also provides clean up crews for roadside litter and illegal dump areas.

Franklin County will apply for grants from the white goods and tire funds to help clean up illegal dumps.

The Franklin County Solid Waste Department will work closely with the Code Enforcement Officer to enforce all rules and regulations. Notice of violation and fines will be issued when illegal dump sites are identified.

Illegal Burning

Current Program: Burning of any waste (garbage, construction material, tires, old buildings) is illegal in North Carolina. Illegal burning is addressed in the Solid Waste Management Ordinance. Fines are issued. The North Carolina Solid Waste Inspector and the North Carolina Air Quality Section are notified on large illegal burn sites.

The Solid Waste Department works closely with the Office of Emergency Management, the local fire departments, and the North Carolina Forest Service on illegal burning complaints.

Burning of natural material including leaves, bushes, tree limbs, and any part of the tree is legal. You must follow the burning rules established by the State of North Carolina or the North Carolina Forest Service. A burning permit is usually required.

Intended Actions: Education is important in discouraging illegal burning. Use information to promote burning rules. Increase fines to deter all illegal burning.

Outlaw all burn barrels. We will no longer accept burn barrels at any disposal site. Provide information to each person that uses a burn barrel. Do this in 2009/2010.

D. Purchase of Recycled Materials and Products

Current Programs: Franklin County has no policy to buy recycled content material. Franklin County does purchase some supplies with recycled content like trash bags, paper towels, toilet paper, etc. Some departments use recycled content paper, but there is no organized record of how much is purchased.

Intended Program: A policy for purchasing recycled content materials will be developed for review. The Franklin County Finance Officer will be asked to review this policy.

E. Summary of Intended Actions

The intended actions described on the previous pages are listed chronologically in Table 12

Table 12. Intended Actions Implementation Schedule

FISCAL YEAR	PROGRAM
2008-09 CURRENT YEAR	<p>Investigate the funding system for solid waste collection. Work with county school recycling representatives Develop a Convenience Center Business Plan. Update the Solid Waste Programs Brochure. Improve Solid Waste Ordinance using stronger violation notices and fines. Promote pesticide containers collection site for farmers. Promote the solid waste web site (www.co.franklin.nc.us link). Promote litter prevention education programs. Support the Litter Reduction Act of 2009 Provide the towns an opportunity to participate in all programs. Advertise all programs on the radio and in the newspaper. Work with the Cooperative Extension Agents. Investigate sorting of metals to increase revenue.</p>
2009/10	<p>Develop a county source reduction goal to include all departments. Promote recycling at the convenience centers. Develop a Recycled Content Purchasing Policy. Provide collection for the new banned items: Wooden Pallets, oil filters, electronics, and plastic bottles. Investigate a recycle refund to be used with the availability fee. Promote the Cooperative Extension Education programs. Investigate new recycling markets. Educate small businesses that use the convenience centers. Increase wood materials that can be mixed with the yard waste. Promote litter education and prevention programs.</p>
2013-14	<p>Promote recycling at the convenience centers. Improve industry waste reduction program Investigate a paint and pesticide collection day.</p>
2015 TO 2019	<p>Promote all recycling options. Paint all recycling and solid waste containers Increase education through all areas. Investigate a pay as you throw option (pay for each bag you produce).</p>

Part VII SOLID WASTE COST AND FINANCING METHODS

Description and Assessment of Costs

Franklin County:

Franklin County operates a solid waste program that includes the twelve convenience centers with both recycling and waste containers, two town recycling centers, a school recycling program, and a county-operated solid waste transfer station. The total budget for the county operated solid waste program during FY2008/2009 was \$2,922,522.

Estimated revenue is applied against the expected cost determined the tipping fee, the solid waste availability fee, and tax funds needed for FY 2008/2009. Expected revenues for the year were: fines-\$ 1,400, recycling revenues-\$ 70,000, white goods tax-\$ 21,300, Recycle Refund Tax-\$ 16,000, tire tax-\$ 66,000.00, tipping fees-\$ 800,000, solid waste availability fee-\$ 960,000.

There will be funds available through the Solid Waste Management Act next year that is estimated at \$ 46,000. These funds can be used for solid waste and recycling programs

The tipping fees at the Franklin County Solid Waste Transfer Station are:

- Commercial waste -- \$56.00 per ton.
- Commercial town -- \$48.00 per ton
- Construction waste -- \$ 56.00 per ton.
- Land Clearing and Inert Debris -- \$20.00 per ton.
- Pallet waste ----- \$ 40.00 per ton
- Residential waste -- \$ 48.00 per ton.
- Shingle waste -- \$56.00 per ton.
- Yard Waste -- \$ 40.00 per ton.
- The Solid Waste Ordinance states that residents can dispose of household waste at no charge. Residents are allowed two thousand pounds of construction waste at no charge and then residents pay at the rate that applies. All customers that make money off of a job that produces wastes, or any type of a business, will pay one of the above rates. Residents of the municipalities follow the same rule.

Franklin County costs are separated in three categories: collection, disposal, and recycling. Franklin County does not record weights that show each town's total for residential and commercial waste. This will be done in the coming year.

Included in this plan is a comparison of cost for each program. The annual cost for collection is \$ 951,430. The annual cost for disposal is \$ 1,635,426.00. The annual cost for recycling is \$ 335,696. The cost is based on actual expenses for the year. Tables 13,14,15,16,17,18, and19 show cost work sheets for the collection and disposal of solid waste and for recycling in FY 2008/2009

Table 13 Full Cost Analysis FY2008-2009

		Full Cost Analysis			
Fiscal Year 2008-2009		Program Category			
Annual Cost of Operations		Total MSW Budget	SW Collection	SW Disposal	Recycling
1	Part-Salaries	286840	258156	0	28684
2	Salaries	226641	90656	90656	45329
3	Benefits	123862	49544	49544	24774
4	Professional Services	2500	0	2500	0
5	Telephone/postage	5700	3420	1140	1140
6	Utilities	17019	11570	3748	1701
7	Travel/training	8460	2820	2820	2820
8	Conv. Site Maintenance	20000	20000	0	0
9	Landfill Repairs	22500	0	22500	0
10	Equip. Maintenance	92000	18400	64400	9200
11	Vehicle Maintenance	7500	3000	750	3750
12	Conv. Site Rental	7970	7173	0	797
13	Advertisement	5000	500	500	4000
14	Auto Supplies	60000	27200	26800	6000
15	Office Supplies	2075	312	1452	311
16	Departmental Materials	4300	1935	1935	430
17	Groundwater Monitoring	13000	0	13000	0
18	Uniforms	7800	6240	780	780
19	Software Support	800	400	400	0
20	Yard Waste Disposal	40800	20400	0	20400
21	Contractual Services	20655	3716	16524	415
22	Tire Disposal	60800	6080	6080	48640
23	Contracted Waste Disposal	1300000	0	1300000	0
24	Conv. Site Contract	480000	384000	0	96000
25	Dues and Subscriptions	730	243	243	244
26	White Goods Disp.	21300	2130	2130	17040
27	Misc. Expenses	10000	1000	1000	8000
28	Keep America	5750	0	0	5750
29	Insurance/bonds	27405	9135	9135	9135
30	Capital Outlay	24000	23400	0	600
31	SW Tax	17145	0	17145	0
	TOTAL	2922552	951430	1635182	335940

Table 14 Full Cost Work Sheets % Total Of Each Program

		Full Cost	Analysis		
Fiscal Year 2008-2009		Program Category			
Annual Cost of Operations	Total MSW Budget-\$	SW Collection	SW Disposal	Recycling	
1	Part-Salaries	286840	80%	0%	20%
2	Salaries	226641	45%	32%	23%
3	Benefits	123862	45%	32%	23%
4	Professional Services	2500	0%	100%	0%
5	Telephone/postage	5700	60%	20%	20%
6	Utilities	17019	67%	23%	10%
7	Travel/training	8460	33%	33%	34%
8	Conv. Site Maintenance	20000	90%	0%	10%
9	Landfill Repairs	22500	0%	100%	0%
10	Equip. Maintenance	92000	31%	59%	10%
11	Vehicle Maintenance	7500	10%	10%	80%
12	Conv. Site Rental	7970	80%	0%	20%
13	Advertisement	5000	10%	10%	80%
14	Auto Supplies	60000	74%	0%	26%
15	Office Supplies	2075	12%	76%	12%
16	Departmental Materials	4300	45%	45%	10%
17	Groundwater Monitoring	13000	0%	100%	0%
18	Uniforms	7800	86%	5%	9%
19	Software Support	800	100%	0%	0%
20	Yard Waste Disposal	40800	0%	0%	100%
21	Contractual Services	20655	17%	81%	2%
22	Tire Disposal	60800	10%	10%	80%
23	Contracted Waste Disposal	1300000	0%	100%	0%
24	Conv. Site Contract	480000	80%	0%	20%
25	Dues and Subscriptions	730	33%	33%	34%
26	White Goods Disp.	21300	10%	10%	80%
27	Misc. Expenses	10000	10%	10%	80%
28	Keep America	5750	0%	0%	100%
29	Unanticipated Ex.	27405	34%	33%	33%
30	Capital Outlay	24000	100%	0%	0%
31	Solid Waste Tax	17145	30%	58%	12%
	TOTAL	2922552			

Table 15. Annualized Collection Cost

Expenditure Description	Purchase Price	Salvage Value	Proportion of Use in Program %	Expected Life in Years	Annualized Costs for This Program
Rolloff Truck	\$99,000.00	\$10,000.00	90%	10	\$ 9,900.00
4 compactor units	\$ 55,168.00	\$ 5,000.00	100	15	\$ 3,678.00
8 compactor containers	\$ 51,448.00	\$ 2,000.00	100	15	\$ 3,430.00
8 Self Contained Compactors	\$240,000.00	\$5,000.00	100%	15	\$ 16,000.00
50-30 open top containers	\$ 188,500.00	\$ 1,000.00	100	15	\$ 12,567.00
12 attendant houses	\$ 48,000.00	\$ 1,000.00	100	15	\$ 3,200.00
4-40 open tops	\$ 17,688.00	\$ 1,000.00	100	15	\$ 1,180.00
Yearly Repairs	0	0	100	15	\$15,000
TOTAL					\$ 64,955.00

Table 16. Annualized Disposal Cost

Expenditure Description	Purchase Price	Salvage Value	Proportion of Use in Program %	Expected Life in Years	Annualized Costs for This Program
CASE621D	\$ 120,000.00	\$ 10,000.00	90	10	\$ 10,800.00
CAT928F	\$ 150,000.00	\$ 10,000.00	100	10	\$ 15,000.00
TAMPER	\$ 5,000.00	0000000000	100	5	\$ 1,000.00
TRANSFER STATION	\$1,300,000	0000000000	100	20	\$ 65,000.00
Scales	\$ 75,000.00	\$ 1,000.00	100	20	\$ 3,750.00
Yearly Repairs	0	0	100	0	\$ 20,000
TOTAL					\$115,550.00

Table 17. Annualized Recycling Cost

Expenditure Description	Purchase Price	Salvage Value	Proportion of Use in Program %	Expected Life in Years	Annualized Costs for This Program
Rolloff Truck	\$ 99,000.00	\$ 10,000.00	10%	10	\$ 990.00
CASE621D	\$ 120,000.00	\$ 15000.00	10	10	\$ 1200.00
03Ford 450	\$ 26000.00	\$ 1000.00	100	10	\$ 2500.00
1 trailer	\$ 2000.00	\$ 100.00	100	10	\$ 190.00
Hyster 40F forklift	\$ 8000.00	\$ 500.00	100	10	\$ 750.00
100 Recycle Bags/stands	\$ 500.00	\$ 000.00	100	10	\$ 50.00
1 Horizontal baler	\$ 2500.00	\$ 500.00	100	10	\$ 200.00
100 Rolling Recycling Carts	\$ 6000.00	\$ 0000.00	100	10	\$ 600.00
1 30yd open top OCC	\$ 3770.00	\$ 1000.00	100	10	\$ 377.00
60 8yd OCC boxes	\$ 46,020.00	\$ 0000.00	100	10	\$ 4602.00
13-25 glass section containers	\$ 74,685.00	\$ 6000.00	100	10	\$ 7469.00
12-25 yd closed top aluminum	\$62,940.00	\$ 0000.00	100	10	\$ 6294.00
12-30 yd plastic containers	\$ 66,288.00	\$ 12000.00	100	10	\$ 6629.00
Yearly Repairs	0	0	100	0	\$10,000.00
TOTAL					\$ 41,851.00

Table 18 County Revenue from the Sale of Recyclables, FY 2008-2009

MATERIAL	FY 2005-06 TONS COLLECTED	GROSS REVENUE
Aluminum/Steel Cans	43	\$3915
Auto Batteries	25	\$2500
Cardboard	326	\$3915
Electronics	30	\$0
Food Waste	0	\$0
Glass	201	\$4020
Mixed Paper/office paper	37	00000
Newsprint/Magazines	347	00000
Pallets	206	00000
Plastic Bottles	66	00000
Textiles	17	\$0
Tires	174	\$0
Used Oil (gallons)	38 (10,992)	00000
White Goods/metal	352	\$55650
Yard Waste	1312	\$0
Total	3174	\$70,000

Table 19 shows a summation of cost for collection, disposal and recycling in Franklin County. Collection is the total from Table 13 plus the annualized cost from Table 15 and then divide by the total tonnage collected from the county convenience center to get the cost per ton (\$951,430+\$64,955 divide 12854 convenience center tons to get a cost per ton-\$79.07). Disposal is the total from Table 13 plus the annualized cost from Table 16 divided by the total tonnage handled by Franklin County (\$1,635,182+\$115,550 divide by 34655 tons to get a cost per ton-\$50.52). Recycling is the total from Table 13 plus the annualized cost from Table 17 minus the revenues from Table 18 and divide by total tons of recycled material (\$335,940+\$41,851-\$70,000 divide 3174 tons recycled equal \$96.97 per ton).

Table 19. County-operated Solid Waste Program Cost, FY 2008-09

	COLLECTION	DISPOSAL	RECYCLING
PROGRAM COST	\$ 1,016,385	\$ 1,750,732	\$ 307,791
COST PER TON	\$ 79.07	\$ 50.52	\$ 96.97

Table 19 shows that the combined cost of collection and disposal is \$ 129.59, where the cost to recycle is \$ 96.97. Recycling is cheaper the cheaper option and recycling is the thing we should promote as a county. Recycling is a better environmental option and cost is better.

Town of Louisburg

The Town of Louisburg contracts with Waste Industries for residential waste pick up. The town employees provide part of the collection and disposal of waste for the residents. Refer back to the collection of waste section. The annual cost for the Town of Louisburg includes: collection-\$ 202,808.76, disposal charges-\$ 89,630.88, and employee cost-\$116,622.88.

The customer charges are the following: Residential-\$ 9.00 per month pick-up charge plus \$ 9.55 per month disposal charge.

All commercial accounts deal directly with the private waste hauler for service.

The Town of Louisburg utilizes the following equipment and employees for solid waste collection and disposal:

- Three 2 ton trucks with 4 foot by 8 foot by 14 foot dump bodies
- Two leaf machine
- Three pick-up trucks
- One back-hoe tractor
- One chipper
- Eight full time employees

Town of Franklinton

The Town of Franklinton contracts with Waste Industries to provide residential pick-up weekly on Tuesday. Businesses contract directly for waste pick-up. Refer to the collection of solid waste section. The annual cost for collection and disposal with Waste Industries is \$180,252.00.

The customer charges are: residential-\$ 16.00 per month for rolling cart service once per week garbage at the back door. Additional carts for residents cost \$11.00 each. Commercial is \$22.30 per month for a rolling cart. The commercial customer can make arrangements with a waste company.

The Town of Franklinton offers bi-weekly yard waste collection to town residents (One load per collection at no fee. \$25 fee for additional loads).

The Town of Franklinton offers white good collection on the last Friday of each month by appointment at no charge.

The Town of Franklinton utilizes the following equipment and employees for solid waste collection and disposal:

1-two ton truck 1 Leaf Machine
1-back-hoe tractor 3 Full Time Employees
1-chipper

Town of Youngsville

The Town of Youngsville contracts with Waste Industries for collection and disposal of residential and commercial solid waste. Refer to the collection of solid waste section for a detail description of services. The annual costs are:

Contracted Services	\$ 84,492.76
Contracted Recycling Services	14,446.08
Organic materials hauled to landfill	445.00
Bulk materials hauled to landfill	1,175.92
Labor	25,957.36
Mileage for hauling 56 loads of commercial waste and 48 loads of yard waste to the landfill	1,050.40
TOTAL	\$ 127,567.52

The customer charges are: Residential-\$ 17.25 per month-backdoor with roll cart. Commercial-\$ 29.00 per month with roll cart. The Town of Youngsville no longer oversees dumpsters. Businesses must contract with a private company for dumpster service.

The Town of Youngsville utilizes the following equipment and employees:

- One 1996 Ford dump body truck.
- One 2007 Ford Dump Truck.
- Four full time employees (sanitation collection duties plus other town duties).
- One leaf machine
- One Kubota Back-Hoe Tractor

Town of Bunn

The Town of Bunn contracts with Waste Industries to provide backdoor residential pickup. The annual cost is \$30,923.00.

The charges to the customer are: residents- \$15.35 per month. An additional cart can be obtained for \$ 10.75 per month. This is for a rolling cart at the back door. Commercial customers can use the same back door service or they can contract directly with private company if they need larger dumpster service.

APPENDIX A. FRANKLIN COUNTY SOLID WASTE TASK FORCE &
ADVISORS

1. John G. Faulkner, Solid Waste Director, Franklin County
2. Edward Shearin, Keep America Beautiful Director
3. Betty Edwards, Franklin County Solid Waste Task Force
4. Wyatt McGhee, Franklin County Solid Waste Task Force
5. Pierre Gianni, Franklin County Solid Waste Task Force
6. Claudette Gianni, Franklin County Solid Waste Task Force
7. Randy Green, Novozymes, Franklin County Solid Waste Task Force
8. Monty Riggs, Franklin County Schools.
9. Ed Harris. Advisor.