

Claiborne County ★
Ten Year
Municipal Solid Waste
Regional Plan

Claiborne County
Solid Waste Regional Board

As Required By
The Solid Waste Management Act of 1991
TCA, 68-31-813 (c) and 68-31-815

July 1, 1994

Assisted By:
Clinch-Powell Resource Conservation & Development Council

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DESCRIPTION OF AND RATIONALE FOR THE REGION

Claiborne County lies in central northeast Tennessee bordering both Kentucky and Virginia at its northern borders. The 1990 Census population of the county was 26,137 with a population density of 60.2 people per square mile. There are four incorporated cities within the county boundaries. They are Tazewell, New Tazewell, Cumberland Gap and Harrogate. The county is classified as 89.8 percent rural and 10.2 percent urban. The University of Tennessee, Department of Sociology projects an increase in population of 6.3 percent before 2000 and 3.3 percent between 2000 and 2010. The solid waste infrastructure as planned will accommodate this increase in population as well as growth expected from industry and tourism.

Claiborne County elected to plan as a single county region as described in the 1991 Tennessee Solid Waste Act. The county and solid waste board agrees that it is in the best interest of Claiborne County to remain autonomous in the management of their solid waste. The rationale is straightforward. Claiborne County is large in terms of land area (434.3 sq. mi.) with difficult topography and geology. Mountains and rivers divide the county making transportation of waste long distances difficult and cost prohibitive. Further, the county has a large investment in terms of money, equipment and commitment in the existing solid waste system.

SOLID WASTE MANAGEMENT PLANNING BOARD

The SWMPB is a seven member board which was approved by commission resolution on December 12, 1992. Three members represent the incorporated cities which provide solid waste collection services to their citizens and four members represent the county.

Solid Waste Management Planning Board

George Harbison, Chairman, County
Dot Lewis, Secretary, New Tazewell
Clyde Breeding, County
Doug Overton, Tazewell
Randy England, County
Joan Webb, Cumberland Gap
Thelma Price, County

IDENTIFIED GOALS AND OBJECTIVES

The responsibility of the SWMPB was to analyze current solid waste management operations in the region, identify deficiencies and needs and to develop a comprehensive Ten Year Solid Waste Management Plan. The board began their task in January 1993. The plan was submitted to the Tennessee Department of Environment and Conservation by July 1, 1994.

REGIONAL NEEDS

- Develop a plan which will meet regulations and provide needed services at the least cost possible.
- Develop and install a regional recycling infrastructure.
- Expanded solid waste education program.
- Assure disposal capacity.
- Streamline county collection and transportation system.
- Analyze operations for cost effectiveness.
- Combine fragmented solid waste services under one oversight group.

GOAL

Comprehensive and integrated solid waste management in Claiborne County which is environmentally and financially sound, meets long term needs of development and is in the best interest of citizens.

OBJECTIVES

- Develop an implementation plan which meets state regulations, serves the best interests of citizens, is practical and financially responsible.
- Provide adequate collection of municipal solid waste from citizens through a network of service centers.
- Plan for 10 year disposal (landfill) capacity to serve Claiborne Countians and provide for economic growth and expansion.
- Reduce waste by 25% by December 31, 1995 through recycling, waste reduction, reuse and responsibility.
- Educate children, adults, business, industry, and government sectors on proper solid waste management including financial and environmental impacts.

SYSTEM ELEMENTS

Collection and Transportation

Analysis of the current collection system indicates that all citizens are adequately served with nine convenience centers and house to house collection in the cities of Tazewell, New Tazewell and Cumberland Gap. However, the cost to provide this level of service is very high. Escalating costs associated with implementing requirements of the 1991 Solid Waste Act necessitate a reduction of convenience centers to four. The collection system will be further changed to a roll-off compactor design at all convenience centers. All green boxes and front end loader trucks (4 total) will be sold. This change will reduce the collection costs by about 50 percent over the current collection and transportation budget annually.

Waste Reduction

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers are being placed in convenience centers to collect glass, plastics, steel cans, aluminum cans, old newspapers, waste oil and white goods. Two additional drop off sites are planned for the cities of Harrogate and New Tazewell. The Harrogate site will also have a drop off container for cardboard if the grant application is approved. A Class IV facility is planned to divert wood waste and construction and demolition waste. Support and encouragement will play an important part in increasing waste reduction in the commercial, industrial and institutional sector. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX. The school system is targeted for an aggressive campaign for waste reduction.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell. The Authority will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires and batteries will be banned from the landfill. Whole tires are currently collected and will be periodically shredded. The planning board is in support and in dialogue with surrounding counties concerning the potential of attracting an end user for tires. Dave's Recycling in New Tazewell collects lead acid batteries.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions adoption.

Source reduction, especially precycling, has been discussed and is a focus area in education programs. Quantification of this waste reduction

component is difficult. The Authority will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

Residential Recycling - The current level (1993) of residential recycling is about 700 tpy. The projected level of residential recycling in 1995 is 809 tpy and in 2003 is 1527 tpy.

Commercial and Industrial Recycling - Current (1993) commercial and industrial recycling totals approximately 1285 tpy. This is projected to increase to 1400 tpy in 1995 and 3510 tpy by 2003.

Industrial Diversion - 1993 diversion from industrial processes accounts for about 1022 tpy. Most of this is used in an internal permitted waste to energy facility at Brooks Furniture. The projected diversion rate is expected to be documented at 2600 tpy in 1995 and to remain fairly constant during the planning horizon.

Disposal

A discussion of disposal needs versus supply is necessary here specific to the region of Claiborne County. Based on the 1989 UT baseline study, the Claiborne County Sanitation Board commissioned Barge, Wagoner, Sumner and Canon to conduct a feasibility study for the construction of a new Class I, Subtitle D landfill. Based on this study, the county issued a \$1 million bond and instructed the engineers to begin the design and process of permitting a new landfill facility. The study and design were prepared based on disposal of 104 tpy which was the volume indicated in the 1989 UT study. Installation of scales at the landfill in October 1993 have proven that the actual tonnage disposed at the landfill will be no more than 18,000 tpy rather than the 32,448 tpy originally projected.

The impacts of this information are severe. Firstly, the landfill design and bond issued is to be paid off from tipping fees instituted based on the Barge Wagoner study projecting 104 tpy. With actual wastes being disposed at less than half the projected amount, the cost per ton for disposal is more than twice the projected dollar amount. Secondly, the design (which is about half complete) is overbuilt as planned based on 104 tpy.

Careful analysis of the situation resulted in changes in the planned design and installation. The design plan originally called for the initial construction of a five acre cell. This is being reduced to a one to one and one-half acre cell projected to serve for two years. These changes will reduce the costs involved to initially construct the facility, reduce the per ton cost and reduce costs to maintain and manage the constructed liners in the cell. If, for some unforeseen reason, the demand for more capacity arises the site is more than adequate to accommodate the additional tonnage with construction of additional or larger Class I cells. The permitted site will 17 acres when approved.

A Class IV cell or facility will be planned for construction in 1997 to accept construction and demolition waste.

Education

A comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public has been designed with leadership given to Partners for Clean Communities Keep America Beautiful System. Goals will be pursued through many focused activities, projects, publicity and education campaigns designed to increase understanding and participation.

The primary methods to be used are school based instruction, workshops and training, audio-visual materials, slides and videos, publications, contests and awards, exhibits and demonstrations, and a speaker's bureau.

HOW NEW PROGRAMS, SERVICES AND FACILITIES WILL BE COORDINATED WITH THE EXISTING SYSTEM

The current system in the Claiborne County region is not integrated. The Sanitation Board oversees the landfill and convenience centers. The county executive oversees the litter grant program. Partners for Clean Communities oversees the education program. There is currently no publicly supported recycling program in the county.

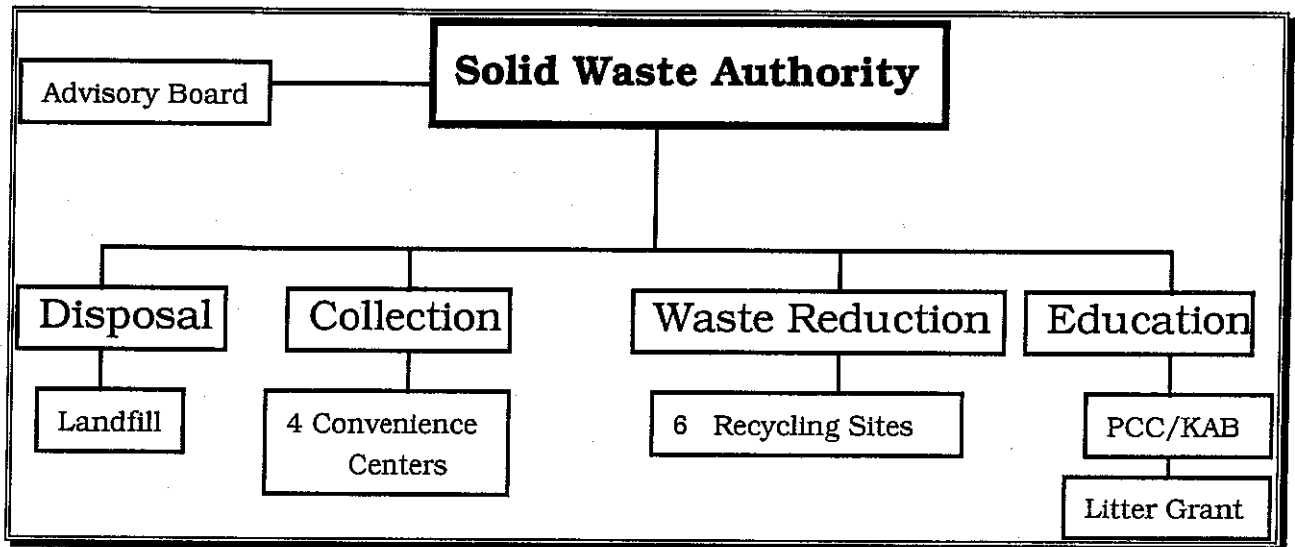
Implementation of this Plan including new programs, services and facilities will require coordination, oversight, monitoring, supervision and integration with the existing systems. Stringent regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex issues. It will require coordination of collection, transportation, disposal, recycling, reduction and education programs. It will require completion of frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the current Sanitation Board and the Solid Waste Planning Board into an organization structured to carry out the required Ten Year Solid Waste management Plan in the most cost effective and efficient manner.

The Sanitation Board will be abolished upon adoption of this Ten Year Municipal Solid Waste Management Plan and the Claiborne County Solid Waste Authority will be created and be composed of five members. Two members will be county commissioners and three will be members at-large. The Solid Waste Planning Board will serve in an advisory capacity but powers and responsibilities of the planning board will be transferred to the Authority. The

Solid Waste Authority will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to a solid waste director who will be responsible for solid waste disposal, collection, waste reduction and education in the region of Claiborne County.

INSTITUTIONAL STRUCTURE



IMPLEMENTATION SCHEDULE

TEN YEAR TIMETABLE FOR COLLECTION AND TRANSPORTATION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Construct/ Upgrade Centers	x	x								
Issue Capital Notes for Equipment	x									
Train Staff	x	x								
Integrate Recycling Services	x	x								
Data Collection Annual Reports		x								
Purchase Truck & Equip	x									
Plan Updates						x				

TEN YEAR TIMETABLE FOR RECYCLING AND WASTE REDUCTION

Program Item	Respon Organ.*	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB Authority		x	x	x						
Promote/Conduct waste audits	Authority		x	x	x						
Establish Goodwill collection sites	Authority Goodwill		x								
Research waste exchange	Authority		x	x							
Work w/Hab. for Humanity	Authority		x	x							
Establish. six recycling sites	Authority Harrog. N. Tazew	x	x								
Establish 4 white goods sites	Authority		x								
One cardboard drop off site	Authority Harrog.		x								
Schools recycling program	Authority Schools PCC		x	x							
Expand newspaper/ bedding program	Authority RC&D	x	x								
Expand markets	Authority Dave's RMCET		x	x	x						
Hire recycling coordinator	Authority		x								
Meet 25% reduction goal	Authority		x								
Expand recy./diver survey	Authority		x	x	x						
Data collection & reports	Authority Dave's		x	x	x	x	x	x	x	x	x
Class IV landfill	Authority			x							
Revise 10-year plan	Authority							x			

NOTE: "X" denotes milestone period and shading denotes on-going operation/ emphasis of program item.

TEN YEAR TIMETABLE FOR DISPOSAL CAPACITY

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Complete new Class I facility design	x									
Complete permit process		x								
Revisit landfill alternatives (transfer station)		x								
Review tipping fees	x	x	x	x	x	x	x	x	x	x
Begin Class IV facility permit process & design		x								
Train & certify landfill manager			x							
Begin construction of new Class I cell			x		x		x		x	
Begin const. on Class IV cell				x			x			
Close out old facility			x							
Carry out post closure plan (monitoring, maintenance)				x	x	x	x	x	x	x

TEN YEAR TIMETABLE FOR PUBLIC EDUCATION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
School Based Instruction	x									
Workshops	x									
AV/Slides		x								
Publications	x									
Awards			x							
Exhibits	x									
Speakers Bur.	x									

TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify site rep.		X								
Schedule and hold collection event.										
Oil collection	X									
Battery collection			X							
Waste tire collection*	X									
Litter collection*	X									

x When implementation begins.

** Waste tire, oil and litter collection programs began before 1994, and will continue throughout the ten-year planning period*

C. STAFFING AND TRAINING REQUIREMENTS

Current Staffing (1993)

- *Landfill Manager (1)
- Landfill Operators (3)
- Landfill Secretary (1)
- Truck Drivers (3)
- *Convenience Center Attendants (9)

* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA.

Future Staffing (1995 - 2003)

Management

- * Solid Waste Director (1)
- Administrative Assistant (1)

Disposal

- *Landfill Manager (1)
- Landfill Operators (3)

Waste Reduction

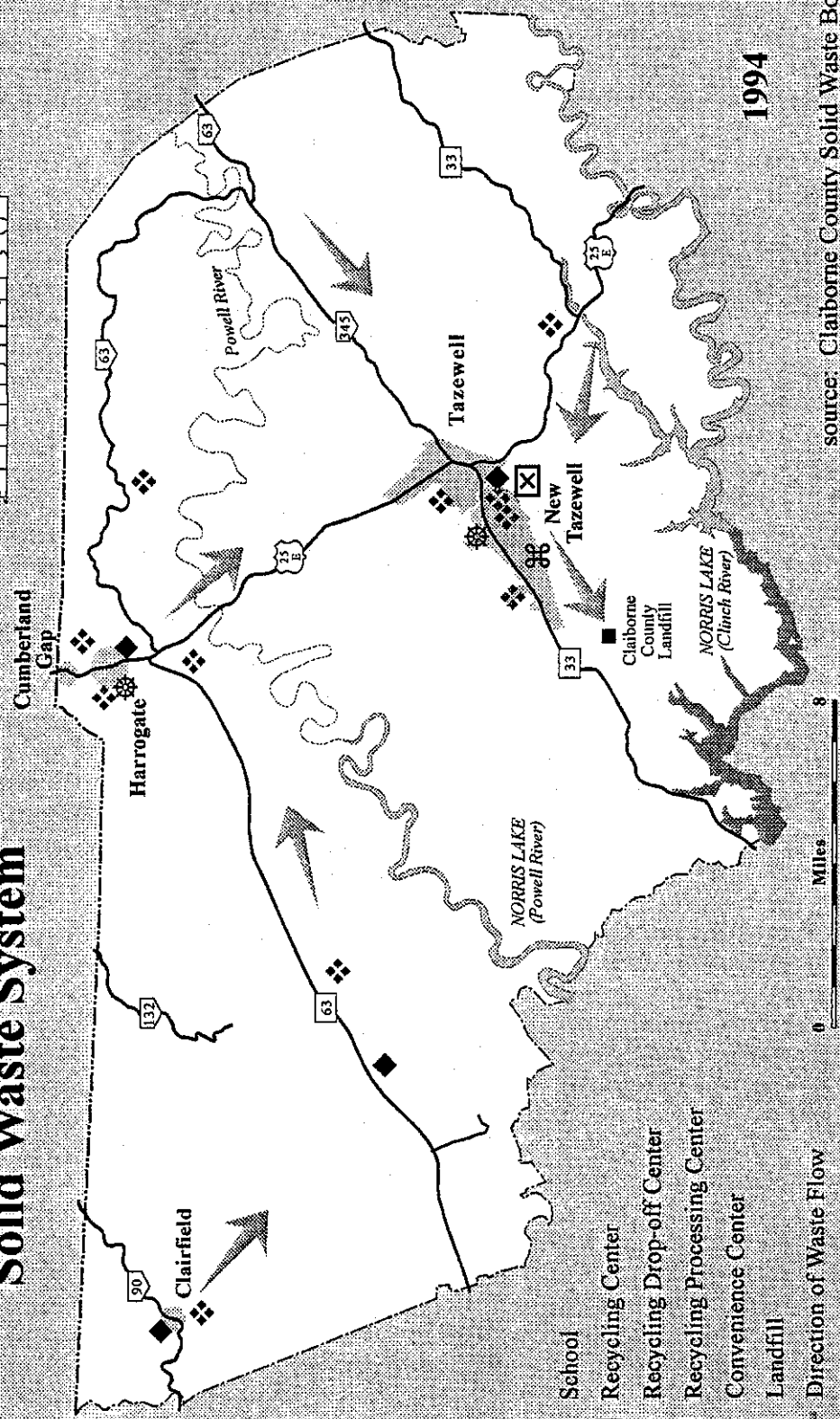
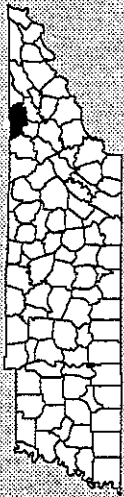
- Recycling Coordinator (1)

Collection and Transportation

- Truck Driver (1)
- *Convenience Center Operators (5)

* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA. Specifics on anticipated hiring and training in a matrix format can be viewed in Section B of this Chapter.

Claiborne County Planned Regional Solid Waste System



1994



- ◆ School
- ⊠ Recycling Center
- ★ Recycling Drop-off Center
- ∞ Recycling Processing Center
- ◆ Convenience Center
- Landfill
- ↖ Direction of Waste Flow

source: Claiborne County Solid Waste Board

ESTIMATED TEN-YEAR SYSTEM COSTS

TEN YEAR COLLECTION AND TRANSPORTATION BUDGET

Year	Capital Costs	County Annual Costs	Tazewell	New Tazewell	Cumber. Gap	Total
1994	\$408,708	\$152,482	\$15,600	\$32,200	\$9,862	\$210,144
1995		\$162,397	\$16,099	\$33,230	\$10,178	\$221,904
1996		\$167,594	\$16,614	\$34,293	\$10,503	\$229,004
1997		\$172,957	\$17,146	\$35,391	\$10,839	\$236,333
1998		\$178,491	\$17,695	\$36,524	\$11,186	\$243,896
1999		\$184,203	\$18,261	\$37,692	\$11,544	\$251,700
2000		\$190,097	\$18,845	\$38,898	\$11,913	\$259,753
2001		\$196,180	\$19,448	\$40,143	\$12,294	\$268,065
2002		\$202,458	\$20,070	\$41,428	\$12,688	\$276,644
2003		\$208,937	\$20,713	\$42,754	\$13,094	\$285,498

Note: Assumes a 3.2% rate of inflation.

TEN YEAR WASTE REDUCTION BUDGET

Waste Reduction	Capital Outlay	Annual Costs
1994	\$25,000	\$26,625
1995	\$20,000	\$27,477
1996	\$23,200	\$28,356
1997		\$29,264
1998		\$30,200
1999		\$31,167
2000		\$32,164
2001		\$33,193
2002		\$34,255
2003		\$35,351
Total	\$80,225	

Note: Assumes a 3.2% rate of inflation.

TEN YEAR DISPOSAL OPERATION AND MAINTENANCE BUDGET

Year	Annual Costs Including Operation & Maintenance
1994	\$619,654
1995	\$639,488
1996	\$772,654
1997	\$807,378
1998	\$833,214
1999	\$859,876
2000	\$887,392
2001	\$915,788
2002	\$945,093
2003	\$975,335

Note: Assumes a 3.2% rate of inflation.

TEN YEAR PUBLIC EDUCATION BUDGET

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Public Education	\$13100	\$16400	\$16925	\$9500	\$9600	\$9700	\$9800	\$9900	\$10000	\$10100

ALLOCATION OF RESPONSIBILITIES AMONG LOCAL GOVERNMENTS AND PRIVATE SECTOR

Primary responsibility for implementation of the plan lies with the Claiborne County Solid Waste Authority and Claiborne County. House to house collection of residential waste in the cities of Tazewell, New Tazewell and Cumberland Gap remains with the respective cities. Disposal capacity, county residential collection and transportation and recycling will be the responsibility of the Authority. Education will be the primary responsibility of Partners for Clean Communities Keep America Beautiful System under the direction of the Authority.

CHAPTER I.

DESCRIPTION OF THE MUNICIPAL SOLID WASTE REGION

A. GENERAL DESCRIPTION:

The Solid Waste Planning Region consists of Claiborne County and the cities of Tazewell, New Tazewell, Cumberland Gap and Harrogate. Harrogate was not incorporated when the region was initially formed and does not provide any solid waste collection services to its citizens at this time. Claiborne County encompasses 434.3 square miles in central northeast Tennessee bordering both Kentucky and Virginia at its northern borders. The 1990 Census population of the county was 26,137 with a population density of 60.2 people per square mile. Land use is predominately agricultural. The county is classified as 89.8 percent rural and 10.2 percent urban. There is a projected increase in population of 6.3 percent before 2000 and 3.3 percent between 2000 and 2010.

B. RATIONALE FOR REGION FORMATION:

Claiborne County elected to plan as a single county region. The county and MSW Regional Planning Board agree that it is currently in the best interest of Claiborne County to remain autonomous in the management of their solid waste. The rationale is straightforward. Claiborne County is large in terms of land area with complex topography and geology. Mountains and rivers divide the county making transportation of waste long distances difficult and cost prohibitive. During the planning process, the planning board gathered cost information and preliminary estimates for handling waste by the private sector. In-depth analysis of alternatives (including financial analysis) was not conclusive that the county would be better off with private waste handlers or in a multi-county region. Further, the county has a large investment in terms of money, equipment and commitment in existing infrastructure which cannot be easily abandoned. The planning board continues to evaluate the disposal options although the county owns property and is currently in phase II of the permitting process.

C. INSTITUTIONAL STRUCTURE:

When planning began, the solid waste infrastructure was handled in a somewhat fragmented manner. The Claiborne County Sanitation Board, empowered by the Claiborne County Commission, was responsible for the operation and maintenance of the Claiborne County Landfill, nine county owned convenience centers including the equipment, personnel, waste transportation, policies and fiscal responsibilities. The county collected and hauled waste from eleven county schools, the hospital and the electric cooperative. The cities of Tazewell, New Tazewell and Cumberland Gap were responsible for household

collection of waste within their city limits and hauling to the landfill. Commercial entities collected and hauled their waste to the landfill. The Claiborne County Litter Grant Fund is handled out of the County Executives Office. Education was handled by Partners for Clean Communities Keep America Beautiful System (part of a five county organization). Recycling was available at privately owned and operated Dave's Recycling in New Tazewell.

The Municipal Solid Waste Planning Board is responsible for preparing a 10 year Municipal Solid Waste Regional Plan as required by The Solid Waste Management Act of 1991. The board was formed by resolution adopted by the County Commission in December 1992 as required by the Act. There are seven members on the planning board. Four are representatives of the county. Three represent the cities of Tazewell, New Tazewell and Cumberland Gap. Members were recommended by the County Executive and approved by the County Commission. Representation is further diversified when background is considered. There are two members of the Sanitation Board, one County Commissioner, three members of Partners for Clean Communities, one educator, and one operator of a utility district. Four members are male and three members are female.

<u>Member</u>	<u>Representation</u>	<u>Term of Office</u>
George Harbison (Chair)	County	2 years
Thelma Price	County	2 years
Dot Lewis (Secretary)	New Tazewell	4 years
Joanne Webb	Cumberland Gap	4 years
Douglas Overton (VCh)	Tazewell	4 years
Clyde Breeding	County	6 years
Randall England	County	6 years

The terms of office for officers are one (1) year. All terms began on January 25, 1993. Three consecutive absences is grounds for replacement. Replacements are made by the entities being represented.

The Planning Board appointed an Advisory Board with diverse representation including Farm Bureau, Education, Industry, Lincoln Memorial University, Recycling, Media, Private Haulers, Chamber of Commerce and several members from the commercial sector. The role of the Advisory Board is to provide feedback and serve as a sounding board in the development of the plan. The Advisory Board is consulted on individual basis and as a group and serves as one way to involve the public in the process. The public was invited to comment at a public hearing prior to final plan preparation. A workshop for commissioners was held on the draft plan to invite their comment and feedback, to train them on the changes the county is facing in solid waste management and to help them understand why these changes are needed and in the best interest of their constituents.

The public was involved primarily through consultation with advisory board members, numerous presentations at civic and organization meetings and representation on the planning board. A county commission workshop, an advisory committee workshop and a public meeting were held to discuss board recommendations before final decisions were made. A presentation of the plan was

made at the commission meeting where members of the public and commissioners commented before adoption of the plan.

The Plan recommends changes in the current institutional structure in order to integrate a solid waste management system in Claiborne County. The Sanitation Board will be abolished and the Claiborne County Solid Waste Authority created to oversee an integrated solid waste management system in the region. The Authority will work closely with county and city governments and private business to coordinate activities.

D. DEMOGRAPHICS

The current population for the Region, according to U.S. Census Bureau projections, is noted below. The following Tables also feature data on average population density, population distribution, housing occupancy, and projected populations.

Name of Region Claiborne County

Regional Population 26,583 (1993)

Regional Area 434.3 square miles

**Table I-1
AVERAGE POPULATION DENSITY**

Claiborne County	Area (Sq. Miles)	Population	Avg. Density Population/sq miles
Regional Total	434.3	26,583	61.2

**Table I-2
DISTRIBUTION OF THE TOTAL REGIONAL POPULATION BY URBAN AND RURAL AREAS
(1993 PROJECTION)**

Claiborne County	Urban		Rural	
	Population	%	Population	%
Regional Total	2,711	10.2	23,872	89.8

Table I-3
DISTRIBUTION OF TOTAL REGIONAL 1990 POPULATION BY SEX AND AGE

Age	Total	Male	%	Female	%
0 - 4	1,610	860	53.4	75	46.6
5 - 17	5,058	2,545	50.3	2,513	49.7
18 - 44	10,784	5,311	49.2	5,473	50.8
45 - 64	5,287	2,581	49.8	2,706	51.2
65+	3,398	1,369	40.3	2,029	59.7
Regional Total	26,137	12,666	48.5	13,471	51.5

Source: 1990 Census

Table I-4
DISTRIBUTION OF REGIONAL 1990 POPULATION BY EDUCATION (AGE > 25)

Claiborne County	Number	%
Less than 9th Grade	5,533	33.4
9th - 12 th Grade, no diploma	2,626	15.8
High School Graduate	4,914	29.6
College (1 - 4)	2,994	18.1
Post Graduate/ Professional (>4)	507	3.1
Regional Total	16,574	100.0

Source: 1990 Census

Table I-5
DISTRIBUTION OF REGION BY TYPE OF HOUSING AND OCCUPANCY IN 1990

Claiborne County	Total Units	Occupied	Owner	Rented
Single Family				
1, Detached	19,288	7,138	5,952	1,186
1, Attached	180	87	35	52
Mult-Family 2	341	173	18	155
3 - 4	220	121	7	114
5 - 9	152	83	4	79
10 - 19	95	35	3	32
20 - 49	95	48	0	48
50 or more	0	0	0	0
Institutional	604	NA	NA	NA
Mobile Home/Trailer	4,838	1,822	1,443	379
Other	324	122	80	42
Regional Total	26,137	9,629	7,542	2,087

Source: 1990 Census

Note: Total Number of Households in Region is 10,031 (1993 Estimate).

**Table I-6
REGIONAL POPULATION PROJECTIONS**

Claiborne County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Regional Total	26,721	26,885	27,014	27,164	27,304	27,457	27,598	27,702	27,795	27,903

Source: University of Tennessee, Department of Sociology, November 17, 1992.

Note: Region Population 1993 is 26,583

Projected regional population data do not show any unusual trends which would affect waste generation rates in the region. Planned system components will be adequate to manage population increases significantly higher than projected.

B. ECONOMIC ACTIVITY

Basic economic information for the region is contained in the tables below.

**Table I-7
BASIC ECONOMIC INFORMATION FOR THE REGIONAL OF CLAIBORNE COUNTY**

Claiborne County	1993 Population	MSA County (yes/no)	Total Employment ¹	Total Earnings ¹	Per Capita Income ¹	% Population Below the Poverty Line ²
Regional Total	26,583	No	11,840	\$333,856,000	\$12,766	28.7%

Source: ¹ Bureau of Economic Analysis, U.S. Dept. of Commerce, 1991

² University of Tennessee, Dept. of Sociology, November, 1992

**Table I-8
TOTAL NON-AGRICULTURAL EMPLOYMENT BY SECTOR AND % OF TOTAL EMPLOYMENT (1990)**

Claiborne County	Manufacturing	Construct.	Trade	Finance	Service	Govt.	Trans./Pub. Utilities
Regional Total	3,480	261	1,702	481	1,639	1,330	398
%	35.5	2.7	17.4	4.9	16.7	13.6	4.1

Source: 1990 Claiborne County District Needs Assessment

**Table I-9
AGRICULTURAL EMPLOYEES (1990)**

Claiborne County	Employment
Regional Total	2,050

Note: Total Agricultural Employment in 1991: 2,050

**Table I-10
EMPLOYERS BY INDUSTRY
County: Claiborne Population: 26,583**

Firms by Employment Size Class										
Industry	All Firms	1-4	5- 9	10- 19	20- 49	50- 99	100- 249	250- 499	500- 999	1000 +
Total	391	237	67	35	31	6	8	6	NA	1
Ag. Services, Forestry, Fisheries	3	2	NA	NA	1	NA	NA	NA	NA	NA
Mining	10	4	NA	4	1	NA	NA	1	NA	NA
Construction	22	17	4	1	NA	NA	NA	NA	NA	NA
Manufacturing	38	12	5	4	6	2	4	4	NA	1
Transportation, Communication, Utilities	27	16	5	4	2	NA	NA	NA	NA	NA
Wholesale Trade	23	11	6	3	3	NA	NA	NA	NA	NA
Retail Trade	136	81	27	13	12	2	1	NA	NA	NA
Finance, Insurance, Real Estate	27	18	4	NA	1	2	2	NA	NA	NA
Services	85	56	16	6	5	NA	1	1	NA	NA

Source: U.S. Dept. of Commerce, County Business Patterns, 1990, Tennessee

**Table I-11
REGIONAL SUMMARY OF INSTITUTIONS HOUSING MORE THAN 100 PERSONS**

Claiborne County	Total Number of Institutions	Total Number of Students Prisoners/Residents	Estimated Quantity of Waste Generated
Regional Total	1	2000 attending 350 residents	192 tpy

** Actual data from Lincoln Memorial University.*

**Table I-12
SUMMARY DATA ON MAJOR HEALTH CARE FACILITIES
(LARGER THAN 50 BEDS)**

Claiborne County	No. of Facilities	No. of Beds	Infectious Waste Management		Est. Quantity of SW Generated
			On Site/Offsite	Type Treatment	
Regional Total	4	369	off site	incineration	330 tpy

**Actual data collected from institutions during planning process.*

**Table I-13
SOURCES OF LOCAL REVENUE UTILIZED**

Claiborne County	Property Tax	Local Sales Tax	Wheel Tax	Local Waste Collection Fee	User Fee/Tipping Fee	Other*
Regional Total	X	X			X	Hotel-Motel & County Mineral Severance Taxes

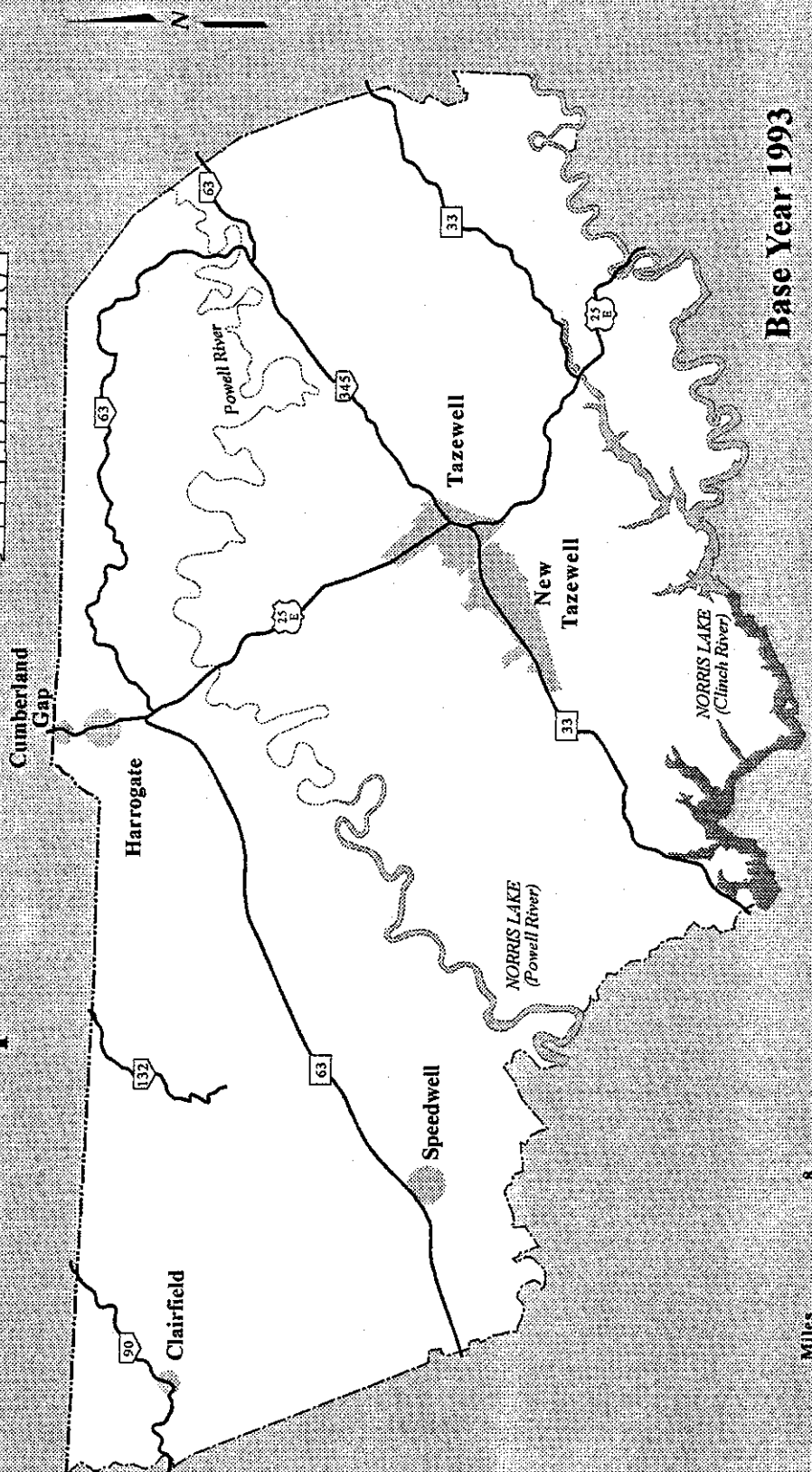
**Table I-14
SUMMARY OF ASSESSED PROPERTY VALUES AND REVENUES**

Claiborne County	Total Assessed Property Value	Total Property Tax Revenue	Total Sales Subject to Sales Tax	Total Local Sales Tax Revenue	# Reg. Vehicles	Total Wheel Tax Revenue
Regional Total	\$156,378,335	\$4,910,279	\$98,400,000 (1992)	\$5,682,274	23,000	\$0

Source: Tennessee Department of Revenue

According to the U.S. Department of Commerce's employment projections, there will be only modest growth in the region of Claiborne County in employment during the planning horizon. Some impact in may occur in the number of tourists traveling through the region if the Cumberland Gap Tunnel is completed and Highway 25E is four-laned through the region. The planned solid waste infrastructure is adequate to handle anticipated growth.

Claiborne County Base Map



Base Year 1993

source: Claiborne County Solid Waste Board

ANALYSIS OF THE CURRENT SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION

Statutory Requirements:

"...(E)ach plan submitted by a municipal solid waste region shall include the following:... (2) a current system analysis of: (A) waste streams, including data concerning types and amounts generated; (B) collection capability, including data detailing the different types of collection systems and the populations and areas which receive and do not receive such services; (C) disposal capability, including an analysis of the remaining life expectancy of landfills or other disposal facilities; (D) costs, using a full-cost accounting model developed by the State Planning Office; including costs of collection disposal, maintenance, contracts, and other costs; and (E) revenues, including cost reimbursement fees, appropriations, and other revenue sources." [T.C.A. Section 68-31-815 (b)(2)]

Data supporting this chapter is displayed in the Claiborne County Needs Assessment prepared for the county as a part of the District Needs Assessment.

A. WASTE STREAM CHARACTERIZATION

There has never been a detailed solid waste characterization study conducted in Claiborne County, although the rural nature of the area makes it certain that yard waste comprises much less than the 17.6% indicated in the national figures. However, without supporting data the characterization of the Claiborne County waste stream is calculated as instructed according to national figures.

Scales were installed at the Claiborne County Landfill in 1993 and weighing began on October 1, 1993. An accurate projection of waste disposed is displayed in Table II-1.

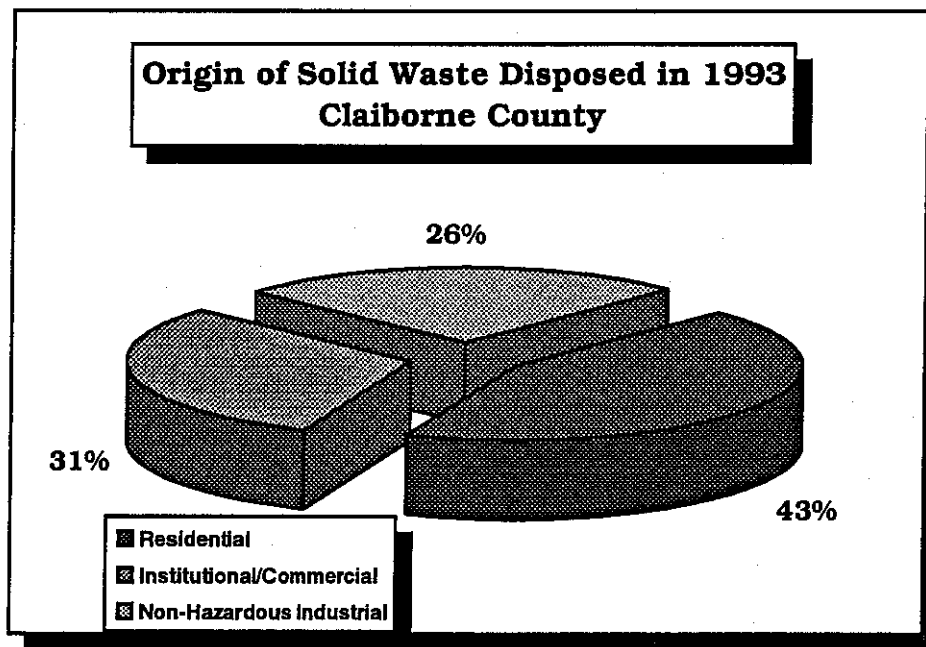
**Table II-1
QUANTITY OF SOLID WASTE RECEIVED FOR DISPOSAL IN CALENDAR
YEAR 1993**

Claiborne County	Tons Disposed	Population (1993)	Waste Disposed Per Capita
Regional Total	14,908	26,583	.56 tpy

Source: Projected from 4 months weight tickets October 1993 - January, 1994

**Table II-2
ORIGIN OF REGIONAL SOLID WASTE DISPOSED IN 1993
TONS PER YEAR**

Claiborne County	Residential	Institutional/Commercial	Non-Hazardous Industrial	Special	Other
Regional Total	6554	4551	3803	NA	NA



Note: 3,007 tons have been documented as recycled or diverted and are not reflected in this graphic.

**Table II-3
ACCEPTANCE OF CERTAIN CATEGORIES OF SOLID WASTE FOR
DISPOSAL**

Claiborne County Sanitary Landfill	Yard Waste (Clippings leaves-grass)		Sewage Sludge		Construction Demolition		Tires*		White Goods+	
	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty
Regional Total	Y	395 TPY	Y	1140 TPY	Y	1,000 TPY	Y	?	Y	40 TPY

Source: 1990 Claiborne County District Needs Assessment

*Shredded tires only

+White Goods - discarded major appliances, etc.

**Table II-4
DESCRIPTION OF THE WASTE STREAM BY MATERIALS**

Waste Category	National %	Calculated Regional Tons
Paper & paperboard	40.0	7,891
Glass	7.0	1,382
Ferrous Metals	6.5	1,282
Aluminum	1.4	280
Other Non-Ferrous Metals	0.6	120
Plastics	8.0	1,580
Rubber & Leather	2.5	500
Textiles	2.1	415
Wood	3.6	710
Food Waste	7.4	1,460
Yard Waste	17.6	3,472
Misc. Inorganic Waste	1.5	296
Other	1.7	339
TOTAL MUNICIPAL SOLID WASTE	100.0	19,727 tpy

Source: 1990 Claiborne County District Needs Assessment

**Table II-5
*UNMANAGED WASTE**

Claiborn e County	Potential Waste Generation 1993 tpy**	Actual Waste Disposed 1993 tpy	Waste Diverted 1993 tpy***	Unmanaged Waste 1993 (potential/actual) tpy	Percent of Potential Total
Regional Total	20,592	14,908	17,915	2,677	13%

*Wastes that are "outside" the collection system such as materials in roadside dumps, litter, etc.

**Potential waste calculated at 4.5#/person/day as outlined in UT Report Managing Our Waste.

***Documented as diverted through recycling and diversion.

Illegal dumping is a problem. A study is currently underway by the Clinch-Powell Resource Conservation and Development Council which will catalogue dumps by location, size and age and then analyze through use of a Geographic Information System. A UT Geography graduate student is conducting the study. Results will help the region to manage and combat illegal dumping. The dumping problem is aggravated by citizens from Kentucky and Virginia bringing their waste into Claiborne County and dumping.

There are no special conditions that are expected to affect the composition of the solid waste stream in the region during the planning horizon.

B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS

Detailed information on the existing collection services and facilities can be found in the County Profile of the District Needs Assessment, Chapter V. A.1-18. Claiborne County, Tazewell, New Tazewell and Cumberland Gap provide collection services which when combined, adequately serve the needs of all citizens in Claiborne County.

The cities of Tazewell, New Tazewell and Cumberland Gap all provide house-to-house collection of solid waste and then transport to the Claiborne County Landfill. The city of Tazewell contracts this service out to a private hauler.

The county currently operates a network of nine convenience centers which are fenced and staffed for collection of county residential waste. Until March, 1994 there were also approximately 22 green boxes scattered throughout the county for additional roadside pickup. The green boxes were pulled in after collection and transportation costs were analyzed during the planning process. The decision was made because of the high cost of the maintaining the boxes and problems from burning, unauthorized usage, littering, etc. The county currently transports waste from convenience centers with three front end loader trucks and maintains a fourth truck as a backup. Most convenience centers are emptied five days per week. The county also picks up waste daily from most of the schools in the county and Claiborne County Hospital.

The convenience centers are staffed and fenced and open five days per week from 8:00 a.m. to 5:00 p.m. Attendants are county employees. Centers will not meet new state mandated requirements without additional construction and modification.

There are no unserved or underserved areas in the county or cities.

The solid waste board conducted an in-depth analysis of the current collection and transportation system operated by the county. Costs are displayed in the graphic below.

**1993 COLLECTION AND TRANSPORTATION COSTS
FOR COUNTY HAULED RESIDENTIAL WASTE**

Current County Collection System	County Residential	Collection Costs Per Ton	Transportation Costs Per Ton	Current System Costs Per Year
Green Box Convenience Centers and Front End Loaders Trucks	5500 tpy	\$18.08	\$31.07	\$271,490

Note: Claiborne County collection and transportation study conducted Nov. 1993

A survey of convenience center usage was conducted to determine weekly visitation. Seven of the nine convenience centers completed the survey. Data is currently unavailable at two centers.

WEEKLY CONVENIENCE CENTER USAGE

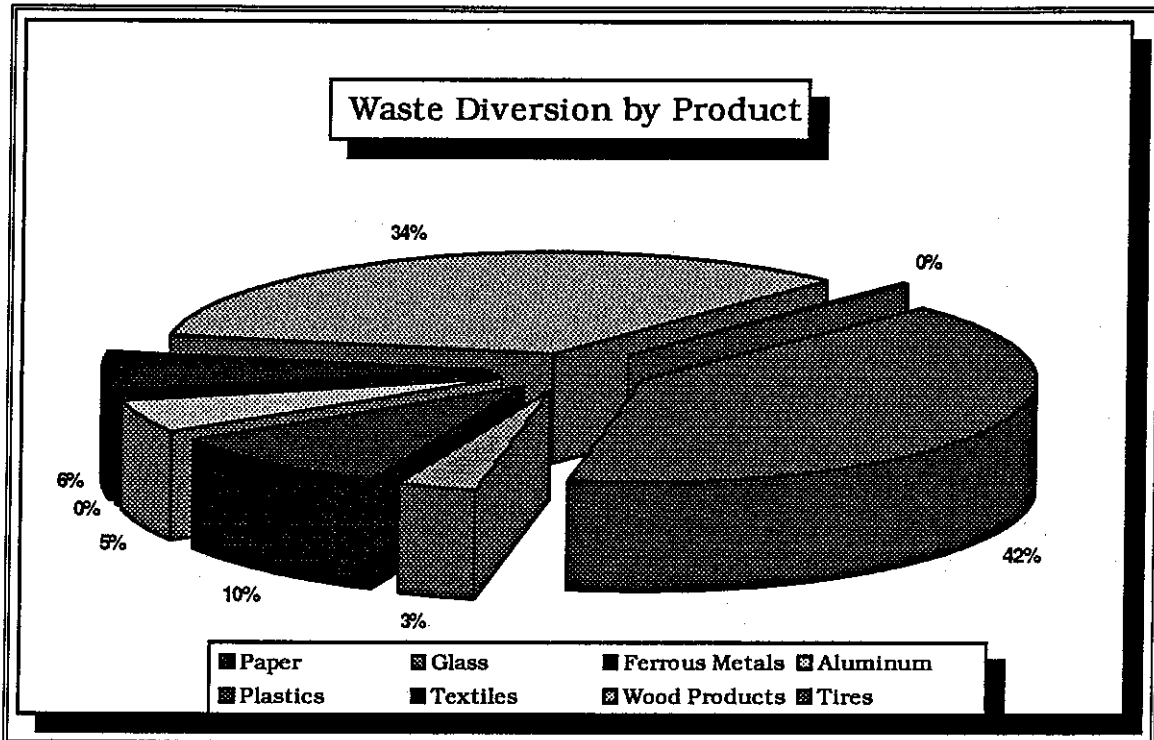
Convenience Center	Users/Week
Tazewell	1046
Shawanee	918
Arthur	683
Springdale	249
Clairfield	195
Speedwell	126
Cedar Fork	74
Hwy 63	Not Avail
New Tazewell	Not Avail

Note: Study conducted October 1993.

Problems were identified which shaped the development of the plan and recommended system changes. Operation and maintenance costs of vehicles is very high. Of the four front end loaders owned by the county, only one is in good condition. The remaining trucks are old, expensive to run and undependable. Trucks run a set pick up route each day and empty containers whether they need it or not. The study showed that the average weight per 8 cubic yard container emptied was 528 pounds.

SOURCE REDUCTION AND RECYCLING SYSTEMS

Currently, there are outstanding reduction programs in operation in the region. A comprehensive questionnaire/survey of business and industry documented 3,007 tons being diverted from the landfill through recycling and diversion. A summary of this survey is found in the graphic below. More detailed survey data can be found in Appendix B.



Note: Percentages displayed reflect total of 3,007 tpy diverted.

Dave's Recycling in New Tazewell is a buy back, multi-materials recycling processing center and currently the only recycling collection center open to the public. It has been in operation for over eight years. Several of the larger furniture manufacturing companies have found alternative methods for disposing of sawdust, including use as animal bedding at the stables at Lincoln Memorial University and local farms and use as fuel in a permitted wood burning boiler at Brooks Furniture in Tazewell.

There are currently three waste oil containers located in three convenience centers. No household hazardous waste collection sites or events have been conducted yet although a regional household hazardous waste collection day is planned for Spring 1995.

WASTE PROCESSING, COMPOSTING, AND WASTE-TO-ENERGY/INCINERATION SYSTEMS

There are no waste processing, composting or incinerators in the region. Brooks Furniture, Inc. operates an in-house Hurst Boiler which burns sawdust and untreated wood pieces for energy used in the Brooks Furniture plant. The equipment is inspected and permitted by the state. Operators estimate the boiler burns about 50 tons of waste wood per week.

REGIONAL SUMMARY: FACILITIES

**Table II-6
OPERATING AND PLANNED COMPOSTING FACILITIES IN THE REGION**

	Claiborne County	Facility Location	Tons of Waste Processed/Yr	Composted Materials		
				Yard Waste	Sewage Sludge	Solid Waste
Existing:	N/A					
Planned:	NONE					
Regional Total						

**Table II-7
MUNICIPAL SOLID WASTE WASTE-TO-ENERGY FACILITIES IN THE REGION**

Operating Facilities

Claiborne County	Facility Location	Design Capacity tons/year	*Current Use tons/year	Anticipated Operating Life of Facility
Regional Total	Brooks Furniture, Inc., Tazewell	Unknown	Approx. 902 tpy	Unknown

*Note: Current use is higher according to owner, however adequate documentation was unavailable.

Planned Facilities

Claiborne County	Facility Location	Design Capacity tons/year	Current Use tons/year	Anticipated Operating Life of Facility
Regional Total	None Additional			

DISPOSAL FACILITIES - LANDFILLS

The only significant changes to the information contained in Chapter VI of the Needs Assessment are the installation of scales at the current facility and the intention of the county to continue to maintain a landfill.

Claiborne County is well into the permitting process for a new Class I facility permit. Phase I is complete and Phase II is currently underway. The new facility is located immediately adjacent to the current landfill. Barge, Waggoner, Sumner and Cannon is the engineering firm responsible for the new facility design. Tables II-8 through II-11 percent specific data.

**Table II-8
EXISTING MUNICIPAL SOLID WASTE LANDFILLS IN THE REGION**

Claiborne County	Name of Landfill	Location	Permitted Capacity (Acres)	Current Rate of Waste Accepted (tons/day)	Remaining Capacity (tons)*
Regional Total	Claiborne Co. Sanitary Landfill	Straight Creek Rd., New Tazewell	12	42 - 50 tpd	25,000

* This is only a projection. Plans are not on file which can adequately or accurately predict capacity through October 1996. TDEC -DSW and BWS&C agree that capacity should be adequate until this date.

**Table II-9
EXISTING LANDFILLS EXPECTED TO CLOSE BEFORE 2003**

Claiborne County	Location	Current Use (Tons/Day)	Current Annual Use (Tons/Year)	Anticipated Date of Closure
Regional Total	Straight Creek Rd, New Tazewell	48 tpd	14,908	10/96

**Table II-10
PLANNED EXPANSIONS AND PLANNED NEW FACILITIES
WHICH WILL OPERATE FOR TEN YEARS OR MORE**

Claiborne County	Proposed Facility		Location	When Will Capacity be Available	Permitted Capacity Sought (acre)	Design Rate of Waste (tpd) Disposed	Potential Expansion Yes/No
	Expan	New					
Claiborne		X	Straight Creek Rd	1996	17	60 tpd	Yes

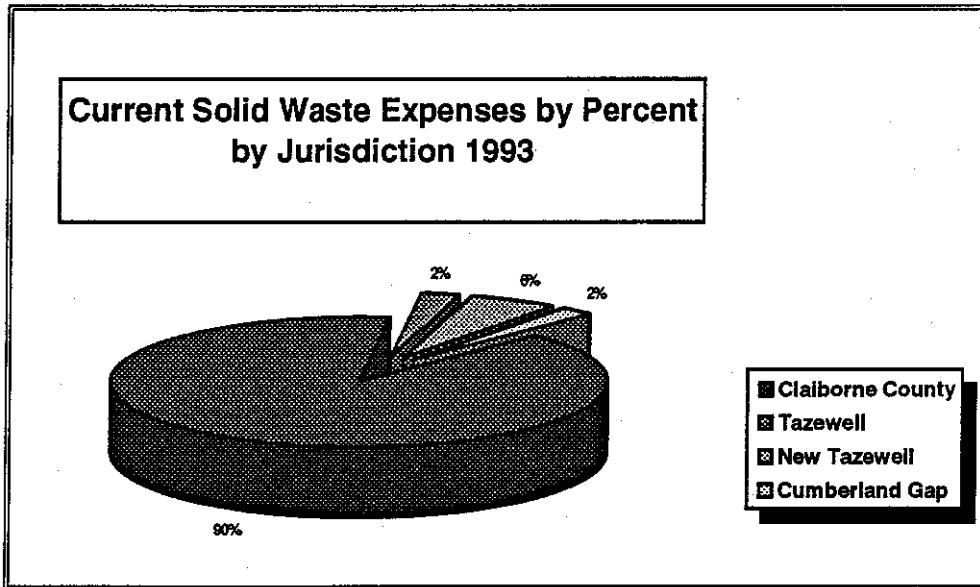
Source: Randy Corlew, Landfill Engineer, Barge-Waggoner-Sumner-Cannon

**Table II-11
TOTAL EXISTING AND PLANNED CAPACITY IN THE REGION AT THE
CLOSE OF THE NEXT TEN YEARS**

Year	TONS		
	Existing	Planned	Total
FY 1993	18720 tpy		18720 tpy
FY 1994	18720 tpy		18720 tpy
FY 1995	18720 tpy		18720 tpy
FY 1996		18720 tpy	18720 tpy
FY 1997		18720 tpy	18720 tpy
FY 1998		18720 tpy	18720 tpy
FY 1999		18720 tpy	18720 tpy
FY 2000		18720 tpy	18720 tpy
FY 2001		18720 tpy	18720 tpy
FY 2002		18720 tpy	18720 tpy
FY 2003		18720 tpy	18720 tpy

Source: Randy Corlew, Landfill Engineer, Barge-Waggoner-Sumner-Cannon

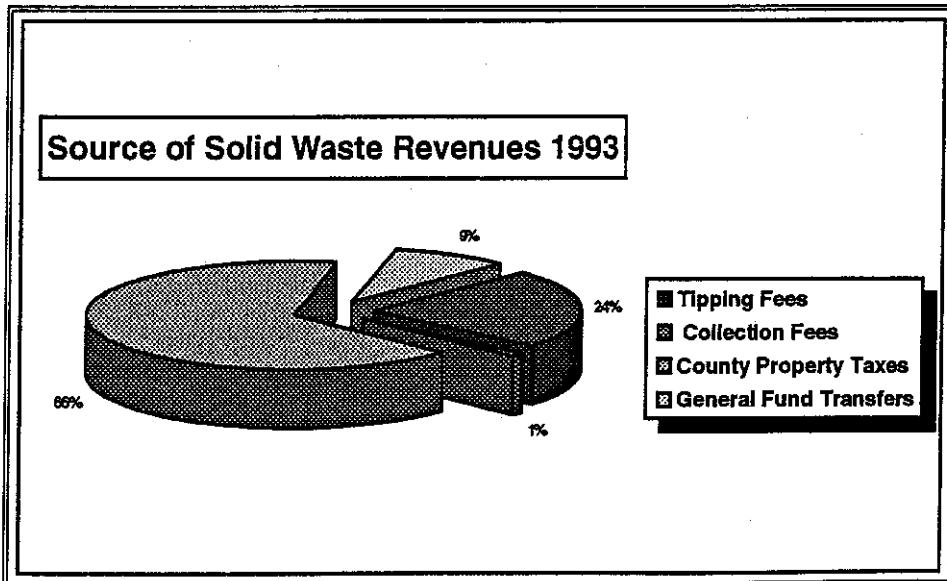
COSTS OF THE CURRENT SYSTEM



The costs and revenues of the total current system are displayed in the table on the following page.

**REGIONAL SUMMARY OF CURRENT SYSTEM COSTS AND REVENUES
1993**

Region of Claiborne County	County	Tazewell	New Tazewell	Cumberland Gap	Total
EXPENSES					
Collection & Transportation					
Publicly-Owned	\$271,490	\$0	\$32,200	\$9,862	
Privately Contracted	\$0	\$15,600	\$0	\$0	
Problem Wastes					
Composting	\$0	\$0	\$0	\$0	
Processing/Handling	\$0	\$0	\$0	\$0	
Recycling	\$0	\$0	\$0	\$0	
Disposal					
Tipping Fees	\$0	\$3,600	\$12,800	\$6,138	
Landfill Operation	\$421,995	\$0	\$0	\$0	
TOTAL					\$773,685
REVENUES					
Tipping Fees (\$24.85/ton)	\$183,000	\$0	\$0	\$0	
County Property Taxes	\$510,485	\$0	\$0	\$0	
General Fund Transfers	\$0	\$19,200	\$35,000	\$16,000	
Collection Fees (varies)	\$0	\$0	\$10,000	\$0	
TOTAL					\$773,685



PUBLIC INFORMATION AND EDUCATION

Solid waste education efforts are coordinated and carried out primarily by Partners for Clean Communities Keep America Beautiful System and the Clinch-Powell Resource Conservation and Development Council as identified in the Needs Assessment. Partners KAB was certified as the first regional KAB in the nation in September 1992. They conduct a variety of programs focused on all segments of the population. Specific activities will be discussed in detail in Chapter IX.

The Claiborne County Litter Grant is administered by the County Executives Office. In 1993, the state stipulated that a portion of that grant be used for education focused on litter and solid waste handling. Schools are identified on the base map at the end of this chapter.

PROBLEM WASTES

Except for waste tires, no information concerning problem wastes was collected during the Needs Assessment. A tire storage area has been constructed at the Claiborne County Landfill with the aid and approval of the TDEC-DSW. An analysis of existing solid waste management practices for all problem wastes will be discussed in Chapter X.

SYSTEM MAP FOR BASE YEAR (1993)

A map showing requested information is displayed at the end of this chapter. Included are:

1. Current convenience center sites.
2. House-to-house collection service and recycling collection areas.
3. Transportation routes.
4. Recycling processing sites.
5. Landfill
6. Educational program sites.

STRENGTHS AND WEAKNESSES OF EXISTING SYSTEM

Analysis of the current solid waste infrastructure reveals several strengths and weaknesses.

Strengths

1. County operated network of staffed/fenced convenience centers funded by the county and serving the needs of all citizens.
2. Privately owned recycling processing center operating successfully within the county.
3. Land and bond issuance secured for a new Class I landfill. Permitting process well underway.
4. Framework for an effective education program is in place.
5. Waste oil collection in place.
6. Large amount of industrial waste reduction in place and documented.

7. House-to-house collection of waste within city limits of Tazewell, New Tazewell and Cumberland Gap.

Weaknesses

1. No county recycling collection program.
2. Underfunded/supported solid waste education program.
3. New Class I landfill not currently permitted.
4. Poor monitoring of equipment and expenditures as compared to budgets.
5. Very high collection and transportation costs of county household waste.
6. Aging equipment in poor repair.
7. No integration or oversight of solid waste activities in the region.
8. No household hazardous waste collection system in place.
9. Convenience centers will not meet new state requirements.
10. No trained or certified personnel at landfill or convenience centers.
11. No coordinated oversight of solid waste activities.

The major **NEEDS** as identified by the Solid Waste Planning Board are:

1. Develop a plan which will meet regulations and provide needed services at the least cost possible.
2. Develop and install a regional recycling infrastructure.
3. Expanded solid waste education program.
4. Assure disposal capacity.
5. Streamline county collection and transportation system.
6. Analyze operations for cost effectiveness.
7. Combine fragmented solid waste services under one oversight group.

The regional **PLANNING GOALS** are to:

1. Develop an implementation plan for comprehensive, integrated waste management which serves the best interest of all Claiborne Countians, is practical, financially responsible and also meets state regulations.
2. Provide adequate collection of municipal solid waste from citizens through a network of service centers.
3. Plan for 10 year disposal (landfill) capacity to serve Claiborne Countians and provide for economic growth and expansion.
4. Reduce waste by 25% by December 31, 1995 through recycling, waste reduction, reuse and responsibility.
5. Educate children, adults, business, industry, and government sectors on proper solid waste management including financial and environmental impacts.

The current system in the Claiborne County region is not integrated. The Sanitation Board oversees the landfill and convenience centers. The county executive oversees the litter grant program. Partners for Clean Communities oversees the education program. There is currently no publicly supported recycling program in the county.

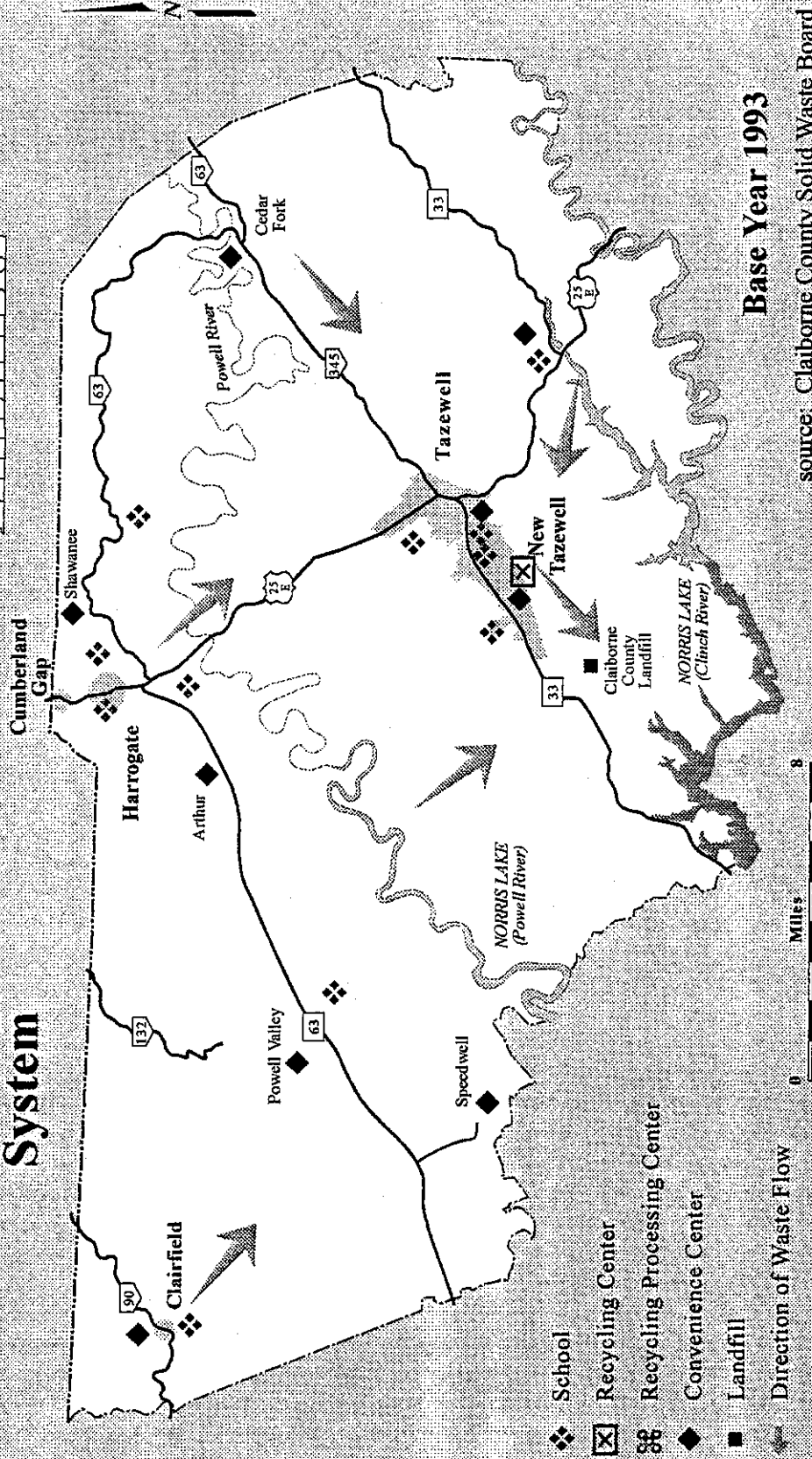
Implementation of this Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex

issues. It will require coordination of collection, transportation, disposal, recycling, reduction and education programs. It will require completion of frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the current Sanitation Board and the Solid Waste Planning Board into an organization structured to carry out the required Ten Year Solid Waste management Plan in the most cost effective and efficient manner.

The Sanitation Board will be abolished upon adoption of this Ten Year Municipal Solid Waste Management Plan and the Claiborne County Solid Waste Authority will be created and be composed of five members. Two members will be county commissioners and three will be members at-large. The Solid Waste Planning Board will serve in an advisory capacity but powers and responsibilities of the planning board will be transferred to the Authority. The Solid Waste Authority will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to a solid waste director who will be responsible for solid waste disposal, collection, waste reduction and education in the region of Claiborne County.

Claiborne County Current Solid Waste System



Base Year 1993

source: Claiborne County Solid Waste Board

- ◆ School
- ⊠ Recycling Center
- 88 Recycling Processing Center
- ◆ Convenience Center
- Landfill
- ↔ Direction of Waste Flow

CHAPTER III

**GROWTH TRENDS, WASTE PROJECTIONS
AND PRELIMINARY SYSTEM STRUCTURE**

Statutory Requirements

"...(E)ach plan submitted by a municipal solid waste region shall include... anticipated growth trends for the next ten-(10) year period...and anticipated waste capacity needs." [T.C.A. Section 68-31-815(b)(4) and (5)]

The County Profile data from the District Needs Assessment, Chapter IV., A(1) through (7) and was reviewed and information updated with projections made through 2003 as instructed.

A. REGIONAL DEMANDS/SUPPLY

Table III-1*

1993 TPY PER CAPITA GENERATION

Claiborne County	Total Waste Disposed (Generated) in FY 1993	Population 1993	Annual Per Capita Generation Tons/Person/Year
Total	20,592	26,546	.78 tpy

Source: 1992 Claiborne County District Needs Assessment and current study data..

Summarized below is the projected quantity of solid waste requiring disposal (generation) in the region in each projected year, adjusted for population changes.

Table III-2*

**QUANTITY OF SOLID WASTE REQUIRING DISPOSAL (TONS PER YEAR)
ADJUSTED FOR POPULATION CHANGES**

Claiborne County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	20,842	20,970	21,014	21,109	21,297	21,416	21,526	21,607	21,680	21,764

Source: Based on population figures from University of Tennessee, Department of Sociology, November 17, 1992 and calculated tpy based on actual generation.

Summarized below are the projected quantity of solid waste requiring disposal in the region for each projection year, adjusted for population growth and economic growth.

Table III-3*

**QUANTITY OF SOLID WASTE REQUIRING DISPOSAL (IN TONS)
ADJUSTED FOR POPULATION AND ECONOMIC GROWTH**

Claiborne County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	21,509	21,641	21,686	22,101	21,978	22,101	22,215	22,298	22,374	22,460

Summarized below are the projected quantities of solid waste requiring disposal (= generation) for each projection year, adjusted for population growth, economic growth, and source reduction, recycling and industrial process change.

Table III-4*

**QUANTITY OF WASTE REQUIRING DISPOSAL (IN TONS) ADJUSTED FOR
POPULATION CHANGES, ECONOMIC GROWTH, AND WASTE REDUCTION
AND RECYCLING**

Claiborne County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	17,207	16,231	15,830	15,684	15,604	15,470	15,328	15,162	14,990	14,823

Below is a summary table indicating projected quantities of solid waste which will require collection and disposal in each projection year, after adjustment for all applicable factors.

Table III-8

**ANNUAL PROJECTIONS OF SOLID WASTE REQUIRING DISPOSAL
ADJUSTED FOR ALL APPLICABLE FACTORS (IN TONS/YEAR)**

Claiborne County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	17,207	16,231	15,830	16,684	15,604	15,470	15,328	15,162	14,990	14,823

B. PRELIMINARY SYSTEM DESIGN

During the planning process, a variety of integrated management processes were considered including balefilling, composting, air curtain destructors, Class I and IV landfilling, recycling, green box collection, green box vs roll-off compactor convenience centers, transportation options, private vs public management, transfer stations and a variety of different budgeting and financing scenarios.

Following is a short description of the selected components of an integrated system. Further discussion and analysis will occur in the following chapters.

Collection

Analysis of the current collection system indicates that all citizens are adequately served with nine convenience centers and house to house collection in the cities of Tazewell, New Tazewell and Cumberland Gap. However, the cost to provide this level of service is very high. Escalating costs associated with implementing requirements of the 1991 Solid Waste Act necessitate a reduction of convenience centers to four. The minimum convenience centers required in three. The collection system will be further changed to a roll-off compactor design at all convenience centers. All green boxes and front end loader trucks (4 total) will be sold. This change will reduce the collection costs by about 50 percent over the current collection and transportation budget annually.

Waste Reduction

Residential Recycling - The current level (1993) of residential recycling is about 700 tpy. The projected level of residential recycling in 1995 is 809 tpy and in 2003 is 1527 tpy.

Commercial and Industrial Recycling - Current (1993) commercial and industrial recycling totals approximately 1285 tpy. This is projected to increase to 1400 tpy in 1995 and 3510 tpy by 2003.

Industrial Diversion - 1993 diversion from industrial processes accounts for about 1022 tpy. Most of this is used in an internal permitted waste to energy facility at Brooks Furniture. The projected diversion rate is expected to be documented at 2600 tpy in 1995 and to remain fairly constant during the planning horizon.

Disposal

A discussion of disposal needs versus supply is necessary here specific to the region of Claiborne County. Based on the 1989 UT baseline study, the Claiborne County Sanitation Board commissioned Barge, Wagoner, Sumner and Canon to conduct a feasibility study for the construction of a new Class I, Subtitle D landfill. Based on this study, the county issued a \$1 million bond and instructed the engineers to begin the design and process of permitting a new landfill facility. The study and design were prepared based on disposal of 104 tpy which was the volume indicated in the 1989 UT study. Installation of scales at the landfill in October 1993 have proven that the actual tonnage disposed at the landfill will be no more than 18,000 tpy rather than the 32,448 tpy originally projected.

The impacts of this information are severe. Firstly, the landfill design and bond issued is to be paid off from tipping fees instituted based on the Barge Wagoner study projecting 104 tpy. With actual wastes being disposed at less than half the projected amount, the cost per ton for disposal is more than twice the projected dollar amount. Secondly, the design (which is about half complete) is overbuilt as planned based on 104 tpy.

Careful analysis of the situation resulted in changes in the planned design and installation. The design plan originally called for the initial construction of a five acre cell. This is being reduced to a one to one and one-half acre cell projected to serve for two years. These changes will reduce the costs involved to initially construct the facility, reduce the per ton cost and reduce costs to maintain and manage the constructed liners in the cell. If, for some unforeseen reason, the demand for more capacity arises the site is more than adequate to accommodate the additional tonnage with construction of additional or larger Class I cells. The permitted site will 17 acres when approved.

A Class IV cell or facility will be planned for construction in 1997 to accept construction and demolition waste.

C. EVALUATION CRITERIA FOR THE REGION

The Solid Waste Planning Board carefully evaluated system components and design to insure adequate service and cost effectiveness. They analyzed institutional compatibility; number and size of facilities needed to meet defined regional needs; evaluation of regional markets for recovered materials, capital and annual operating costs; unit costs; siting and regulatory requirements; environmental impacts and public acceptance.

Statutory Requirements:

"The goal of the state is to reduce by twenty-five percent (25%) the amount of solid waste disposed of at municipal solid waste disposal facilities and incinerators, measured on a per capita basis within Tennessee by weight, by December 31, 1995." [T.C.A. Section 68-31-861(a)]

"...[E]ach plan submitted by a municipal solid waste region shall include...a description of waste reduction activities designed to attain the twenty-five percent (25%) reduction required by Section 25(a) [T.C.A. Section 68-31-861(a)]; and Section 14(b)10. [T.C.A. Section 68-31-815(b) (10)].

"A county or region shall have the flexibility to design its own plan and methods which take into account local conditions for attaining the waste reduction goal set by this section. This plan shall be included as a part of the county or regional plan required by Section 13 of this act." [T.C.A. Section 68-31-861(f)]

A. ESTABLISHING A BASE YEAR QUANTITY

TABLE IV-1

POPULATION AND QUANTITIES OF WASTE DISPOSED OF AT MUNICIPAL SOLID WASTE DISPOSAL FACILITIES IN 1989

Claiborne County	1989 Population	1989 Total Waste Disposed (Generated) in TPY	Waste Disposed Per Capita
Regional Total	27,000	27,040	1.00

The calculated regional per capita waste disposal rate for the base year 1989 is calculated as follows.

27,040 (total disposed in tpy 1989 study) / 27,000 (regional population reported in 1989 study) = 1.00 (regional annual per capita waste disposal rate in tpy)

Adjustment to 1989 Base Year Data

The data collected in the 1989 was clearly in error. There were no scales at the landfill and no records were kept on volumes or quantities of waste entering the landfill because there was no evident need at the time. Quantities were estimated for the UT study by quesstimating from numbers and size of trucks tipping at the facility. During the planning process (after scales were installed) it became evident that many trucks (especially county trucks) were regularly hauling partial loads. The new base year data is based on weight tickets, documented diversion and recycling volumes and unmanaged waste. The new base year is 1993. See Appendix B for documentation.

**TABLE IV-1A
POPULATION AND QUANTITIES OF WASTE DISPOSED OF AT MUNICIPAL
SOLID WASTE DISPOSAL FACILITIES AND INCINERATION IN 1993**

Claiborne County	1993 Population	1993 Total Waste Disposed (Generated) in TPY	Regional Total
Regional Total	26,546	20,592	.78

**B. CALCULATE A TARGET 1995 WASTE REDUCTION PER CAPITA
DISPOSAL RATE**

The targeted 25% reduction in tpy is calculated as follows.

$.78$ (avg 1993 per capita rate) X $.25$ (25% reduction target) = $.20$ tpy (target 1995 per capita reduction rate)

The total quantity of waste in tons that must be reduced at the source, or diverted to alternative treatment options is calculated by multiplying the target 1995 per capita reduction rate by the regional population projection for 1995 (Chapter III, Table III-1, Column 2).

$.20$ tpy X $26,885$ = $5,377$ target reduction in tons/year

**TABLE IV-2
ESTIMATED QUANTITIES OF WASTE REMOVED OR DIVERTED FROM THE
WASTE STREAM (TPY)**

Year	Recovered & Recycled	Diverted to Alternative Disposal (Class IV)	Waste to Energy	Total
1985 to 1989	0	0	0	0
1990	0	0	0	0
1991	0	0	0	0
1992	0	0	0	0
1993	1985	0	1022	3007
1994	2092	0	2000	4092
1995	2777	23	2600	5400
Subtotal	6854	23	5622	12499
1996	2847	27	2600	5474
1997	3077	240	2600	5917
1998	3319	462	2600	6381
1999	3547	675	2600	6822
2000	3774	883	2600	7257
2001	4037	1126	2600	7763
2002	4267	1339	2600	8206
2003	4491	1546	2600	8637
TOTAL	36213	6321	26422	68956

C. DESCRIBE HOW THE REGION WILL MEET THE STATEWIDE WASTE REDUCTION GOAL

SHORT-TERM GOAL - Achieve the state mandated 25% waste reduction goal by 12/31/95 through:

a. Source reduction: Pursue with a "buy recycled" and "pre-cycling" focus with the private and public sectors. Sponsor workshops and encourage waste audits/reduction in the industrial/institutional/commercial sectors.

b. Reuse: Work with Goodwill Industries to set up collection containers for used clothing and other good quality thrift items. Network with Habitat for Humanity to determine if possibilities exist for use of waste materials. Begin initial research into possibilities and in a waste exchange.

c. Recycling: Establish drop off sites for residential recyclables. Establish commercial cardboard recycling program. Work with school system to institute a recycling program.

d. Diversion: Establish supply of newspaper for use as animal bedding and promote program to expand local market. Support diversion of sawdust and ends and pieces to waste to energy facility. Begin permitting process for a Class IV landfill to accept construction and demolition waste.

Some specific short term actions to be taken are:

1. Develop "buy recycled" and "recycled" campaign.
2. Network and encourage industry to conduct waste audits.
3. Work with Goodwill Industries to set up collection boxes at new convenience centers.
4. Research pros and cons of a waste exchange.
5. Contact Habitat for Humanity to determine interest and potential to use some waste materials from residential and commercial waste streams.
6. Establish six residential recycling drop off sites to collect multi-materials.
7. Provide four collection sites for scrap metal white goods to be recycled.
8. Provide waste oil collection sites at four convenience centers.
9. Establish a drop off site for small generator cardboard.
10. Work with school system to set up a recycling program.
11. Establish dependable supply of recycled newspaper to meet current demand. Encourage and promote expanded demand as bedding material when supply warrants.
12. Develop expanded markets for collected materials through Dave's Recycling and the Recycling Marketing Cooperative for East Tennessee.
13. Hire a recycling coordinator.
14. Continue and expand survey efforts to document diversion and recycling.
15. Collect data and prepare reports.
16. Revise plan in 1995.

LONG-TERM GOAL - Work toward a 35% non-mandated waste reduction goal by 2003 through:

a. Source reduction: Continue and expand short term programs. Institute an awards and recognition program. Aggressively monitor procurement practices and challenge business and industry to adopt source reduction policies. Expand aggressive education campaign targeted to industrial employees to help "close the loop."

b. Reuse: Based on short term research, develop potential for instituting or participating in a waste exchange.

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CHAPTER XIII
FLOW CONTROL AND PERMIT APPLICATION REVIEW

A. FLOW CONTROL

The Solid Waste Management Act of 1991 authorizes regions with approved plans to exercise certain flow control powers in accordance with the plan. The Act permits regions to exercise two (2) types of flow control: (1) the out-of-region waste ban [T.C.A. Section 68-31-814(b)(1)(B)]; and (2) intra-region flow control [T.C.A. Section 68-31-814(b)(1)(A)]. Authorities formed under this Act are also permitted to exercise broad flow control powers [T.C.A. Section 68-31-907]. The regional plan must specifically describe any flow control measures it plans to take and set forth a schedule for adoption.

To preserve available landfill capacity necessary to serve the Claiborne County solid Waste Planning Region and Authority, the Claiborne County Solid Waste Planning Region and Authority elects to restrict the amount of solid waste that may be received from outside the region. Solid waste from outside the region may be received so long as planned capacity exists, but is hereby banned if and when there is no planned capacity remaining. The following formula shall be used to determine if planned capacity remains:

The remaining permitted capacity of the landfill, as determined by the Tennessee Division of Solid Waste Management, divided by the remaining years of this solid waste plan less the volume being received from the Claiborne County Solid Waste Planning Region (Authority).

Volume received in excess of the above is banned.

To preserve and assure adequate waste flow in order to guarantee a revenue stream for financing bonds for municipal solid waste management facilities located with the Claiborne County Solid Waste Planning Region (Authority), intra-region flow control will be exercised as set forth in [T.C.A. Section 68-31-814(b)(1)(A)].

B. PERMIT REVIEW

Basis For Review

The review of any application for landfill approval with the Claiborne County Solid Waste Authority and Planning Region will be based upon compliance with the intent of the plan as written, approved, and adopted. The primary questions to be answered are:

1. Will the additional landfill volume be needed for the Region to maintain environmentally acceptable and cost-effective Class I disposal volume for the waste generated within the region?
2. Will the location of the new landfill or extension within the region provide for more cost-effective disposal of Class I waste without sacrificing environmental acceptability?
3. Is the location of the facility suitable for a landfill to serve the Authority and Region? In other words, landfills which are located at the outer edges of the region (away from major population centers) and designed to serve out-of-region waste will be considered to be not suitably located to serve the region.
4. Will the cost impacts for providing infrastructure (roads, waster, etc.) for bringing out-of-region waste into the region exceed the cost savings provided by the additional landfill facility?

Application and Review Procedure

1. A copy of the Part I Solid Waste Disposal Facility Permit Application shall be submitted to the chairman of the Claiborne County Solid Waste Authority prior to submittal of said document to the Division of Solid Waste Management. In addition to the DSWM Part I Application , this submittal shall include the following:
 - Estimated total volume of the facility in tons of waste.
 - Proposed daily tonnage of the facility.
 - Proposed service area of the facility.
 - Map showing the location of the site suitable for advertisement.
 - Map showing current zoning of the site with a description of any special permits or re-zonings required and the status of same.
 - General site layout map showing proposed approximate landfill footprint, access roads, and solid waste management facilities proposed, etc.
 - Any preliminary site evaluation studies available (hydrogeologic, environmental, engineering, etc).
 - An application fee will be established to cover the costs of the advertisement, public hearing, etc.

2. **The Solid Waste Authority Chairman will advertise the proposal in the local newspapers of the county in which the disposal facility is proposed as well as in the newspapers of any region which has a portion of their land mass within 5 miles of the proposed facility. This advertisement will include the following information:**
 - **General description of the proposed facility.**
 - **Road address and location relative to incorporated or unincorporated municipalities.**
 - **Map showing the location of the site.**
 - **Date, time, and location of public hearing (must be at least 28 days after advertisement runs).**
 - **Dates of public comment period.**
 - **Address for mailing of public comments.**
3. **The Authority Chairman will send copies of the application to each member of the Authority Board, the County Executive in the region and the TN Division of Solid Waste Management.**
4. **The Authority will call a special meeting which will act as the public hearing.**
5. **The public hearing will be in presentation format. The applicant will present a 15 minute discussion of the proposed project. This will be followed by a fifteen minute report from a representative of the Authority. The public comment period will follow with comments limited to 5 minutes per person. The hearings will be documented through a court recorder.**
6. **At the end of the public hearing, the Authority will schedule another special meeting to be a minimum of two weeks and a maximum of four weeks after the public hearing.**
7. **At the second special meeting, the Authority will discuss the issue and then will vote to reject or not to reject the application.**
8. **The authority may reject an application for a new solid waste disposal facility or incinerator, or expansion of an existing solid waste disposal facility or incinerator within the region only upon determining that the application is inconsistent with the solid waste management plan adopted by the region and approved by the Tennessee Department of Environment and Conservation, Division of Solid Waste Assistance. The Authority shall document in writing the specific grounds on which the application is inconsistent with the plan. The vote will be decided by simple majority. In the event of a tie vote, any abstentions will be repolled for a vote. In the event that the vote remains tied, a new special meeting will be**

called within two weeks and the application will be voted on again. In the event that the outcome remains a tie, the application will be automatically rejected. The outcome will be provided to the Owner and the Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

9. If the Authority does not reject the application, the applicant can proceed with the full permitting process of the State. The State review process will determine the technical acceptability of the proposal. The Board's decision is based on siting and need for the facility.
10. Rejection of the proposal will result in the decision that the proposal is not consistent with the Claiborne County Municipal Solid Waste Management Plan and therefore the facility cannot proceed through the State permitting process. Where an Authority rejects an application, the DSWM shall not issue the permit unless they find that the decision of the Authority is arbitrary and capricious and unsupported in the record developed before the Authority.
11. Appeal of final actions of the Authority, shall be taken by an aggrieved person within thirty (30) days to the Chancery Court. The court shall exercise the same review as it would in a case arising under Tennessee code Annotated, Title 4, Chapter 5. For the purposes of this section, an "aggrieved person" shall be limited to persons applying for permits, persons who own property or live within a three (3) mile radius of the facility or site that is proposed for permitting, or cities and counties in which the proposed facility is located.

c. Recycling: Expand and improve short term recycling programs. Investigate potential and develop a commercial recycling route for selected materials from small businesses. Research potential and possible end users and encourage process changes to strength markets. Seek markets for expanded materials.

d. Continue short term activities. Complete Class IV permitting, construct and begin diversion to the facility.

Specific long term actions will developed during the plan revision in 1995.

**TABLE IV-3
1995 PLANNED WASTE REDUCTION BY MATERIAL (TPY)**

Year	Glass	ONP	Alum.	Ferrous Metals	Plastics	OCC	Wood Waste	Oil	Textiles	Total
1995	162	239	142	310	25	1732	2600	60	130	5400

**TABLE IV-3
PLANNED WASTE REDUCTION BY ECONOMIC SECTORS AND YEAR**

Year	Residential Waste Reduction (Recycling & Diversion)	Commercial/Industrial Waste Reduction (Recycling & Diversion)	Total
1993	700	2307	3007
1994	750	3342	4092
1995	809	4591	5400
1996	875	4599	5474
1997	990	4927	5917
1998	1276	5105	6381
1999	1433	5389	6822
2000	1596	5661	7257
2001	1785	5978	7763
2002	1969	6237	8206
2003	2159	6478	8637

Strategies

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers are being placed in convenience centers to collect glass, plastics, steel cans, aluminum cans, old newspapers, waste oil and white goods. Two additional drop off sites are planned for the cities of Harrogate and New Tazewell. The Harrogate site will also have a drop off container for cardboard if the grant application is approved. A Class IV facility

is planned to divert wood waste and construction and demolition waste. Support and encouragement will play an important part in increasing waste reduction in the commercial, industrial and institutional sector. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX. The school system is targeted for an aggressive campaign for waste reduction.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell. The Authority will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires and batteries will be banned from the landfill. Whole tires are currently collected and will be periodically shredded. The planning board is in support and in dialogue with surrounding counties concerning the potential of attracting an end user for tires. Dave's Recycling in New Tazewell collects lead acid batteries.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions adoption.

Source reduction, especially precycling, has been discussed and is a focus area in education programs. Quantification of this waste reduction component is difficult. The Authority will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

**TABLE IV-4
WASTE REDUCTION TARGET BY MATERIAL BY YEAR**

Year	Glass	ONP	Alum	Ferr. Metal	Plastics	OCC	Wood Waste	Oil	Textile	Total
1993	88	102	142	250	10	964	902	0	156	3007
1994	123	164	123	246	41	1309	1964	41	81	4092
1995	162	239	142	310	47	1732	2600	60	108	5400
1996	164	219	164	238	55	1752	2627	55	110	5474
1997	179	237	177	255	59	1893	2840	59	118	5917
1998	171	255	191	283	65	2042	3062	64	128	6381
1999	205	273	205	409	68	2193	3275	68	136	6822
2000	128	291	218	4335	72	2322	3483	73	145	7257
2001	233	311	233	466	77	2484	3726	78	155	7763
2002	246	328	246	492	82	2626	3939	83	164	8206
2003	259	346	259	519	86	2764	4146	86	172	8637

D. 10-YEAR STAFFING REQUIREMENTS, BUDGET, AND FUNDING PLAN

Detailed staffing requirements, budget information and funding plan information can be found in related Chapters V and XI. Staff responsibility for waste reduction will be shared among programs: Recycling, Collection and Education. A Recycling Coordinator will be hired and will have primary responsibility for collection, quality control, data management and marketing.

E. 10-YEAR IMPLEMENTATION SCHEDULE

Program Item	Respon Organ. *	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Bu recycled campaign	PCC/KA B Authority		x	x	x						
Promote/Conduct waste audits	Authority		x	x	x						
Goodwill collection sites	Authority Goodwill		x								
Research waste exchange	Authority		x	x							
Work w/Hab. for Humanity	Authority		x	x							
Est. six recycling sites	Authority Harrog. N. Tazew	x	x								
Est. 4 white goods sites	Authority		x								
One cardboard drop off	Authority Harrog.		x								
Schools recycling program	Authority Schools PCC		x	x							
Expand news/bedding	Authority RC&D	x	x								
Expand markets	Authority Dave's RMCET		x	x	x						
Hire recycling coordinator	Authority		x								
Expand recy./diver survey	Authority		x	x	x						
Data collection & reports	Authority Dave's		x	x	x	x	x	x	x	x	x
Class IV landfill	Authority			x							
Revise 10-year plan	Authority							x			

NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.

F. RESPONSIBILITY FOR IMPLEMENTATION

*Responsible Party: PCC - Partners for Clean Communities Keep America Beautiful System: Authority - Claiborne County Solid Waste Authority: Goodwill - Goodwill Industries: Harrog - City of Harrogate: N. Tazew - City of New Tazewell: Schools - Claiborne County School Board: RC&D - Clinch-Powell Resource Conservation & Development Council: Dave's - Dave's Recycling: RMCET - Recycling Marketing Cooperative for East Tennessee

G. DATA COLLECTION AND REPORTING

The Claiborne County Solid Waste Authority will be the primary responsible party for collecting information, managing data and preparing and submitting reports to the state. The Authority will be responsible for implementing and revising the plan.

WASTE COLLECTION AND TRANSPORTATION

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...collection capability, including data detailing the different types of collection systems and the population and areas which receive and do not receive such services..." [T.C.A. 68-31-815(b)(2)(B)]; and "...as part of the local plan required by Section 13 of the Act, each county or multi-county municipal solid waste disposal region shall submit a plan for the adequate provision of collection services to the State Planning Office. Such plan shall identify unmet needs and shall be updated annually." [T.C.A. 68-31-851(b)]

A. NUMBER, LOCATION AND DESIGN OF COLLECTION FACILITIES

The collection system described in Chapter II currently includes nine convenience centers. The state requires only three convenience centers to adequately serve the area and population of the county (Convenience Center Rule, 1200-1-7). House to house collection is provided in the cities of Tazewell, New Tazewell and Cumberland Gap. There are no underserved areas in the region. The number of convenience centers will be reduced to four with locations to be in the areas of Clairfield, Harrogate, Speedwell and Tazewell. There will be no underserved areas after establishment of new centers.

B. DEFINE REGIONAL NEEDS TO PROVIDE ADEQUATE SERVICE TO RESIDENTS

**TABLE V-1
PLANNED COLLECTION SYSTEM**

	Tazewell	New Tazewell	Cumb. Gap	Clairfield Con. Ctr.	Harrogate Con. Ctr.	Tazewell Con. Ctr.	Speedwell Con. Ctr.
# House-holds	759	700	85	900	2100	2300	1600

Currently convenience centers have green boxes for collecting waste. The planned system calls for centers to be converted to roll off compactor systems. Centers will also have open top containers for white goods and bulky items.

Planned Transportation System

Currently the centers are serviced by three front end loader trucks with one truck used as a back up. The planned system calls for conversion to a roll off truck to service convenience centers.

C. HOW REGION WILL MEET IDENTIFIED NEEDS WITHIN 10 YEARS

Collection Goals and Objectives

- Adequately serve all citizens.
- Provide collection in the most cost effective and efficient manner.

Unservd Areas - There are no unserved areas in the region.

**TABLE V-2
TIMETABLE AND MILESTONES FOR CONVENIENCE CENTERS AND
TRANSPORTATION**

1994-95	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June
Approve Budget		X										
Seek Land	X	X	X	X								
Purchase Land		X	X	X								
Bid Equip		X	X									
Purchase Equip				X	X							
Register Centers			X	X								
Apply for Center Grant			X	X								
Construct Centers			X	X	X							
Bid Truck		X										
Purchase Truck			X									
Hire Operators				X	X							
Train Operators				X	X	X						
Collect Data & Do Reports				X	X	X	X	X	X	X	X	X

TRANSFER STATIONS AND/OR INTERMEDIATE PROCESSING FACILITIES

There are no transfer stations or intermediate procession facilities planned.

INTEGRATION OF THE COLLECTION SYSTEM WITH RECYCLING AND PROBLEM WASTE

Upgraded convenience centers will be full service centers to best meet the needs of citizens and state requirements. Centers will:

- collect household waste
- have drop off containers for recyclables
- have containers to collect scrap metals
- will have containers for bulky item collection which can be diverted to the Class IV landfill
- have education areas with demonstration backyard composting area, collection boxes for Goodwill, exhibits, a swap board for unwanted materials and an area for education field trips

- waste oil collection bins
- be landscaped
- have extended operation hours
- be staffed with trained personnel to help citizens manage waste correctly

The collection system is integrated with recycling because there will be recycling drop off containers at all convenience centers. Waste oil will be collected at convenience centers but will be serviced by a private company.

D. 10-YEAR STAFFING AND TRAINING NEEDS

Staffing and training will be displayed in an integrated manner in Chapter XI.

Staffing

5 Convenience Center Attendants (1 floater)
1 Truck Driver

Training

Attendants will need to be trained in the following:

- Separating recyclables.
- Quality control and monitoring recyclables.
- Identification and acceptance of wastes in landfill.
- Working with public as point people in education and quality control.
- Keeping records of center attendance and usage.
- Operation and maintenance of compactor equipment.
- Knowledge of applicable laws, rules and regulations.
- Keeping site tidy, neat, pleasant and attractive.
- Maintaining fencing and landscaping.

Further training will be provided by the Department of Environment and conservation [T.C.A. Section 68-211-851(c)].

E. 10-YEAR BUDGET

**TABLE V-3
10 YEAR WASTE COLLECTION AND TRANSPORTATION COSTS**

Year	Capital Costs	County Annual Costs	Tazewell	New Tazewell	Cumber. Gap	Total
1994	\$408,708	\$152,482	\$15,600	\$32,200	\$9,862	\$210,144
1995		\$162,397	\$16,099	\$33,230	\$10,178	\$221,904
1996		\$167,594	\$16,614	\$34,293	\$10,503	\$229,004
1997		\$172,957	\$17,146	\$35,391	\$10,839	\$236,333
1998		\$178,491	\$17,695	\$36,524	\$11,186	\$243,896
1999		\$184,203	\$18,261	\$37,692	\$11,544	\$251,700
2000		\$190,097	\$18,845	\$38,898	\$11,913	\$259,753
2001		\$196,180	\$19,448	\$40,143	\$12,294	\$268,065
2002		\$202,458	\$20,070	\$41,428	\$12,688	\$276,644
2003		\$208,937	\$20,713	\$42,754	\$13,094	\$285,498

NOTE: Annual costs reflect a 3.2% rate of inflation.

**TABLE V-4
10 YEAR WASTE COLLECTION AND TRANSPORTATION REVENUES**

Year	County Taxes	County Grants	Tazewell Taxes	New Tazewell Taxes	Cumber. Gap Taxes	Total
1994	\$152,482		\$15,600	\$32,200	\$9,862	\$210,144
1995	\$162,397	\$50,000	\$16,099	\$33,230	\$10,178	\$273,904
1996	\$167,594		\$16,614	\$34,293	\$10,503	\$229,004
1997	\$172,957		\$17,146	\$35,391	\$10,839	\$236,333
1998	\$178,491		\$17,695	\$36,524	\$11,186	\$243,896
1999	\$184,203		\$18,261	\$37,692	\$11,544	\$251,700
2000	\$190,097		\$18,845	\$38,898	\$11,913	\$259,753
2001	\$196,180		\$19,448	\$40,143	\$12,294	\$268,065
2002	\$202,458		\$20,070	\$41,428	\$12,688	\$278,065
2003	\$208,937		\$20,713	\$42,754	\$13,094	\$285,498

**TABLE V-5
BREAKDOWN OF ROLL-OFF CONVENIENCE CENTER COSTS**

Four Convenience Centers	Capital Outlay	Annual Costs	Annual Cost/Ton
Land	\$50,000		
Land Cost @ 5% for 20 yrs.		\$5,000	
Construction	\$177,368		
Equipment	\$97,340		
Less Convenience Ctr. Grant	(\$50,000)		
Total Construction/Equip Outlay	\$224,708		
Const. & Equip. Costs @ 5% for 10 yrs.		\$33,706	
Operation		\$67,776	
Truck	\$84,000		
Truck Costs @ 5% for 5 yrs.		\$21,000	
Transportation (\$5/ton)		\$25,000	
TOTALS	\$408,708	\$152,482	\$25.41

F. 10-YEAR TIMETABLE FOR IMPLEMENTATION

**TABLE V-6
10-YEAR IMPLEMENTATION SCHEDULE**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Construct/ Upgrade Centers	♦	♦								
Train Staff	♦	♦								
Integrate Recycling Services	♦	♦								
Data Collection Annual Reports		♦								
Purchase Truck & Equip	♦									
Plan Updates						♦				

Financing for this system is in place and will come from county property taxes. The solid waste collection plan will be annually updated by the Authority as required by T.C.A. 68-211-814. The annual update will consider:

- ♦ Survey of roadside dumps;
- ♦ Citizen complaints;
- ♦ Alternative systems available; and
- ♦ Volume of waste received or collected by the existing systems.

This evaluation report will be submitted to the State Planning Office on July 1, 1995 and each year thereafter.

G. NOT APPLICABLE

H. SYSTEMS MAP

See Chapter XI.

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a recycling plan, including a description of current public and private recycling efforts and planned efforts to enhance recycling within the county or region." [T.C.A. 68-31-815(b)(7)]

and "Effective January 1, 1996, each county shall provide...one (1) or more sites for collection of recyclable materials..." [T.C.A. 68-31-863(a)]

"Each person or entity operating a collection site for recyclable materials shall annually report the quantities of recyclable materials collected, by type of material, to the region which shall then report...[this information]...to the State Planning Office." [T.C.A. 68-31-863(b)]

A. REGIONAL NEEDS FOR RECYCLING PROGRAMS, FACILITIES AND SERVICES

The major need of the region is to develop and establish a recycling collection infrastructure. This includes setting up recycling drop off sites, arranging transportation, promoting the program, working with local processor and finding markets for expanded materials recycling. Other needs are to set up a commercial recycling program and encourage business and industry to initiate in-house recycling programs.

B. SPECIFICATIONS

Regional Goal - Establish a recycling infrastructure designed to meet the 25% reduction goal and beyond.

Objectives

1. Establish drop off sites for recyclables at four convenience centers.
2. Establish drop off sites for recyclables in Harrogate and Tazewell/New Tazewell.
3. Establish cardboard drop off container site in Harrogate.
4. Establish a commercial recycling route beginning with cardboard and expanding to office paper.

5. Establish a school based recycling program.
6. Collect scrap metal at convenience centers.
7. Establish waste oil collection sites at convenience centers.
8. Promote use of recycled newspaper to area farmers for animal bedding.
9. Coordinate waste reduction audits for business, industry and institutions and actively encourage recycling by companies and employees.
10. Work through Dave's Recycling for processing.
11. Work through the Recycling Marketing Cooperative for East Tennessee for expanded marketing of materials.
12. Work with the state Office for Cooperative Marketing as information becomes available.
13. Hire a recycling coordinator.

Strategy for Expanding Recycling Collection

Dave's Recycling is currently the only multi-materials recycling center in the region. Dave's is located in New Tazewell. The strategy for expanding recycling collection to unserved areas of the region is well defined in the objectives of the recycling program in the previous section.

Residential Recycling

Drop off containers will be placed in four convenience centers. A grant was received by the county from the Division of Solid Waste Assistance and these containers are now being constructed. A recycling grant has been submitted by the city of Harrogate for an additional drop off container and a cardboard collection container. The cities of Tazewell and New Tazewell plan to apply for a recycling grant during 1995 for an additional drop off container and to establish a commercial recycling program.

Industrial Recycling

A large amount of recycling and diversion is already on-going in industry. During the planning process surveys revealed more than 50 companies were recycling or diverting 3,007 tons per year (includes Dave's Recycling).

A Waste Reduction Workshop was held for the Manufacturers Association and two waste assessments were conducted as a result. Waste Assessments will continue to be promoted and coordinated for area industry.

Commercial/Institutional Recycling

Plans call for the establishment of a commercial recycling route in Tazewell/New Tazewell. This program will begin with cardboard and expand to office paper and other products.

The school system is targeted for a recycling drop off program which has already been design and containers purchased. Wire bins will be placed at schools to collect materials. This program is working successfully in Hancock County, Tennessee and Lee County, Virginia.

Collected Materials

The county recycling program will begin by collecting the following materials.

- Aluminum
- Glass (3 colors)
- Steel Cans
- Newspaper
- Plastics (#1 & #2)
- Waste Oil
- White Goods

The program will be expanded to collect the following materials.

- Cardboard
- Office Paper
- Mixed Paper (if market can be found)

Program Description

Type of System - The system will be a drop off system at convenience centers and two additional drop of sites in Harrogate and Tazewell/New Tazewell.

Size of Program - Program will serve 8,444 households which is 100% of the households in the region. The Commercial program will target and recruit 25 businesses to begin with and expand as capacity allows.

TABLE VI-1
ESTIMATED QUANTITY OF RECOVERED MATERIALS
(TONS PER YEAR)

Year	Glass	ONP	Alum	Ferr. Metal	Plastics	OCG	Wood Waste	Oil	Textile	Total
1993	88	102	142	250	10	964	902	0	156	3007
1994	123	164	123	246	41	1309	1964	41	81	4092
1995	162	239	142	310	47	1732	2600	60	108	5400
1996	164	219	164	238	55	1752	2627	55	110	5474
1997	179	237	177	255	59	1893	2840	59	118	5917
1998	171	255	191	283	65	2042	3062	64	128	6381
1999	205	273	205	409	68	2193	3275	68	136	6822
2000	128	291	218	4335	72	2322	3483	73	145	7257
2001	233	311	233	466	77	2484	3726	78	155	7763
2002	246	328	246	492	82	2626	3939	83	164	8206
2003	259	346	259	519	86	2764	4146	86	172	8637

Service Area - The service area will be the region of Claiborne County.

Description and Location of Collection Sites - Please see map at the end of this chapter for location of sites. Four sites will be in convenience centers constructed to meet state requirements. One collection site will be located on a paved lot at Lincoln Memorial University in Harrogate. The final collection site (to be established in 1995-96) will be in the Tazewell/New Tazewell area but a specific site has not been identified as yet.

Location and Description of Processing Center - Processing of materials will be done at Dave's Recycling which is a privately owned facility located in New Tazewell. See map at the end of this chapter for location.

Volume and Markets - The small quantities collected from drop off sites will be combined and processes and primarily marketed at Dave's Recycling. Dave's Recycling serves as a regional processing/market center for surrounding counties.

Interaction with Office of Cooperative Marketing - The region will submit reports to the OCM and is willing to cooperate in any other cost-effective marketing contracts arranged by the OCM.

Expanding Markets - A resolution will be prepared and adoption actively pursued for the county to adopt a "buy recycled content" policy for procurement. Similar ordinances will be pursued in the cities. The potential for a waste exchange will be further evaluated and will be pursued if feasible. The region will work through the Recycling Marketing Cooperative for East Tennessee to actively seek expanded, stable and attractive markets for materials.

Recycling Education - Please see Chapter IX for integrated education program description.

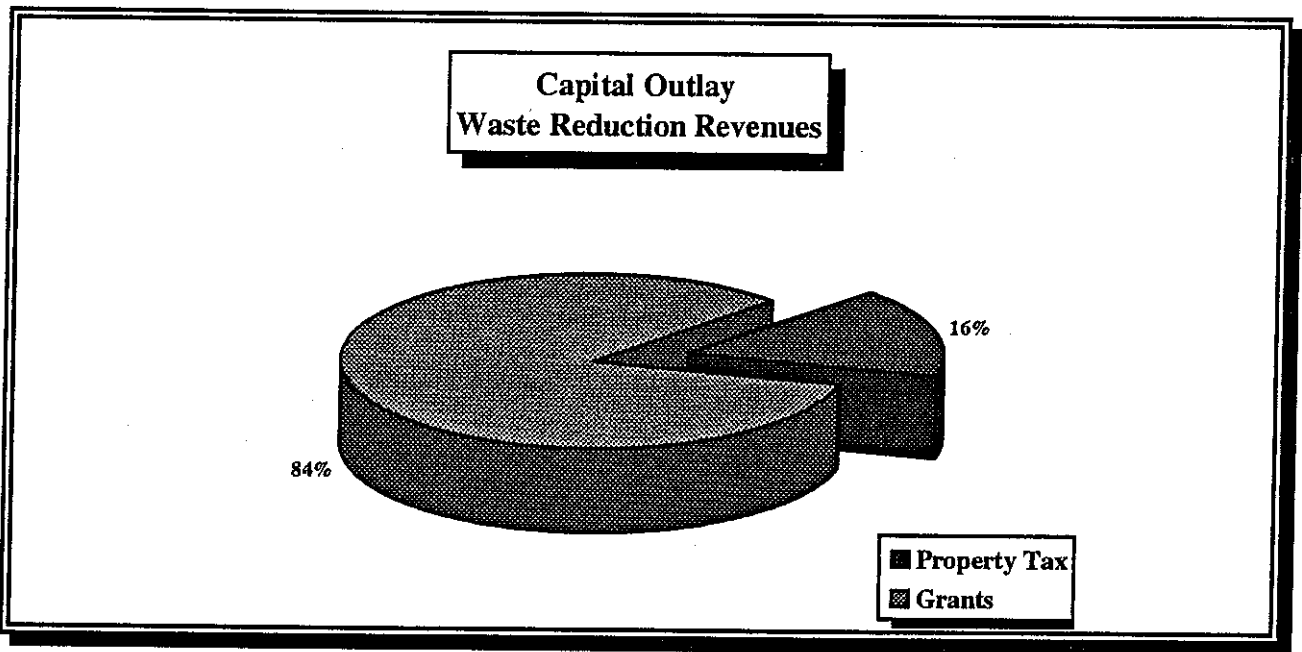
Ten Year Staffing Plan -

- Full-time Recycling Coordinator
- Four Convenience Center Attendants (monitor/quality control of materials)
- Truck Driver (same driver and truck used for household solid waste)

**TABLE VI-2
TEN YEAR BUDGET
WASTE REDUCTION**

	Capital Outlay	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Waste Reduction	\$80,225	\$26,625	\$27,477	\$28,356	\$29,264	\$30,200	\$31,167	\$32,164	\$33,193	\$34,255	\$35,351

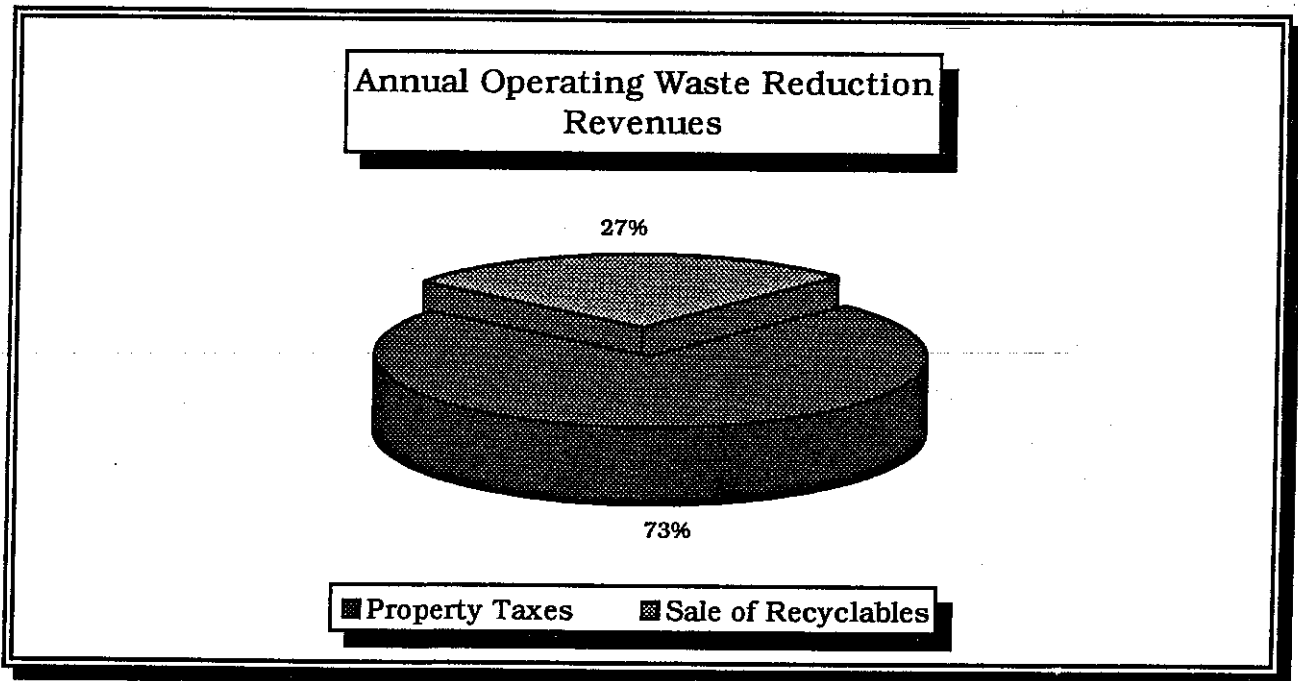
FUNDING PLAN AND SOURCES OF REVENUES



**TABLE VI-3
WASTE REDUCTION COST BREAKDOWN**

	Capital Outlay	Grants	Annual Operating
4 Convenience ctr sites w/pads	\$25,000	\$17,000	\$500
Harrogate drop off	\$20,000	\$20,000	\$200
Taze/New Taze drop off and commercial route equip.	\$23,200	\$23,200	\$1,500
RMCET dues	\$0	\$0	\$2,025*
Half conv. ctr. sheds	\$4,000	\$0	\$0
Operations	\$0	\$0	\$13,400
Half Coordinator	\$0	\$0	\$9,000
TOTAL	\$80,225	\$60,200	\$26,625

* RMCET dues at full level. Dues will be phased in to this level over 4 years.



C. PUBLIC/PRIVATE SECTOR/NON-PROFIT COORDINATION

Coordination between public/private sector has been discussed earlier in this chapter.

D. TEN YEAR IMPLEMENTATION SCHEDULE

**TABLE VI-4
TEN-YEAR RECYCLING PROGRAM IMPLEMENTATION SCHEDULE**

Program Item	Respon Organ. *	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB Authority		x	x	x						
Promote/Conduct waste audits	Authority		x	x	x						
Goodwill collection sites	Authority Goodwill		x								
Research waste exchange	Authority		x	x							
Work w/Hab. for Humanity	Authority		x	x							
Est. six recycling sites	Authority Harrog. N. Tazew	x	x								
Est. 4 white goods sites	Authority		x								
One cardboard drop off	Authority Harrog.		x								
Schools recycling program	Authority Schools PCC		x	x							
Expand news/bedding	Authority RC&D	x	x								
Expand markets	Authority Dave's RMCET		x	x	x						
Hire recycling coordinator	Authority		x								
Expand recy./diver survey	Authority		x	x	x						
Data collection & reports	Authority Dave's		x	x	x	x	x	x	x	x	x
Class IV landfill	Authority			x							
Revise 10-year plan	Authority							x			

NOTE: "X" denotes milestone period and shading denotes on-going operation/emphasis of program item.

E. RESPONSIBILITY FOR IMPLEMENTATION

*Responsible Party: PCC - Partners for Clean Communities Keep America Beautiful System: Authority - Claiborne County Solid Waste Authority: Goodwill - Goodwill Industries: Harrog - City of Harrogate: N. Tazew - City of New Tazewell: Schools - Claiborne County School Board: RC&D - Clinch-Powell Resource Conservation & Development Council: Dave's - Dave's Recycling: RMCET - Recycling Marketing Cooperative for East Tennessee

F. LOCATION MAP - See systems map at end of Chapter XI.

**COMPOSTING, SOLID WASTE PROCESSING,
WASTE-TO-ENERGY AND INCINERATION CAPACITY****Statutory Requirements:**

Neither composting facilities, solid waste processing facilities, or incineration facilities are included in the he statutory list of planning requirements. However, because these facilities are viable options which may be considered in designing an integrated, regional waste management system, the Director of the State Planning Office has determined that this information is relevant, and should be included in the regional plan.

"...[Each plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant..." [T.C.A. 68-31-815(b)(15)]

Neither composting facilities, solid waste processing facilities, or incineration facilities are included in the statutory list of planning requirements. However, because these facilities are viable options which may be considered in designing an integrated, regional waste management system, the director of the State Planning Office has determined that this information is relevant, and should be included in the regional plan.

A. REGIONAL NEEDS FOR COMPOSTING, WASTE PROCESSING AND/OR INCINERATION

From information gathered during the Needs Assessment in 1991, there were no composting, solid waste processing or incineration facilities available in the Region of Claiborne County. Due to the small percentage of yard waste disposed at the landfill, there is little need for a composting facility. Many of the residents in the region manage yard waste generated on their property without need for municipal disposal.

There is one privately owned waste-to-energy facility (boiler) located at Brooks Furniture in Tazewell which burns wood waste and sawdust. It is a privately permitted facility.

CHAPTER VIII

DISPOSAL CAPACITY

Statutory Requirements:

"Each plan submitted by a municipal solid waste region shall include [a] planned capacity assurance, including descriptions of planned or needed facilities." [T.C.A. 68-31-815(b)(6)]

A. REGIONAL SUPPLY/DEMAND FOR DISPOSAL CAPACITY

Claiborne County currently operates a Class I landfill facility on Straight Creek Road.

Permit Number - SNL 13-103-0008

Date Issued - 1973

The existing facility will not meet Subtitle D regulations and will have to be closed by October 1996. Table VIII-1 shows the projected surplus of fill space available in the current facility until October 1996.

A new Class I facility is being designed and the permitting process is underway. Claiborne County issued a \$1 million bond in 1991 to close the existing facility and begin design, permitting and construction of a Subtitle D facility. The bond is to be paid from tipping fees at the landfill. The new facility will be constructed adjacent to the existing facility. Scales were installed in October 1993 and will be used for the new facility after October 1996.

A preliminary design and feasibility study was prepared for the county by Barge, Wagoner, Sumner and Cannon based on a disposal quantity of 104 tons per day which was the volume estimated in the 1989 UT Study. This estimate has been demonstrated to be clearly in error and a base year adjustment has been requested based on actual weight data from the scales at the landfill.

The landfill design initially planned for the construction of a five acre cell to handle 104 tons per day for eight to ten years. Because actual disposal rates are 57 tons per day (260 days/year) construction and installation will be scaled down to a 1 - 1 1/2 acre cell construction which should handle disposal for 2 years. The new facility, when permitted, will have 17 acres of fill space.

A Class IV landfill is planned on the same property with the Class I facility. Design and permitting have not begun but preliminary discussion with engineers is favorable. ↙

**Table VIII-1
PROJECTED DEMAND, SUPPLY AND SURPLUS OF DISPOSAL CAPACITY
TONS PER YEAR
CLAIBORNE COUNTY**

Year	DEMAND: Tons Generated	DEMAND: Tons of Waste Requiring Disposal	SUPPLY: Existing & Planned Capacity	Surplus (+)
1993	20592	14908	18720	3812
1994	20842	17207	18720	1513
1995	20970	16231	18720	2489
1996	21014	15860	18720	2890
1997	21109	16684	18720	2036
1998	21297	15604	18720	3116
1999	21416	15407	18720	3313
2000	21526	15328	18720	3392
2001	21607	15162	18720	3558
2002	21768	14990	18720	3730
2003	21764	14823	18720	3897

**Table VIII-2
PROJECTED NET DISPOSAL CAPACITY* (TONS PER YEAR)
COUNTY/REGIONAL**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Region	+3812	+1513	+2489	+2890	+2036	+3116	+3313	+3392	+3558	+3730	+3897

* (+) indicates surplus capacity

B. EXCESS CAPACITY

To protect excess disposal capacity and efficiently manage the solid waste system, the Claiborne County Solid Waste Authority has been created with the adoption of this plan. The Authority plans to exercise flow control. Should expanded capacity should be required larger cells can be designed and constructed to meet additional needs.

C. DISPOSAL PLAN

Regional Goal - Plan for 10 year disposal capacity to provide for economic growth and expansion.

Objectives

Design and permit a Class I Subtitle D Landfill Facility
 Design and permit a Class IV Landfill Facility

The new Class I facility will have 17 permitted acres. The property was purchased by Claiborne County in 1989 and adjoins the existing landfill property. The final design is 50% complete and is scheduled for completion by September 1994. The hydrogeologic approval is expected at any time according to the engineer.

**TABLE VIII-3
 PROJECTED SUBTITLE D CLASS I LANDFILL COSTS**

ITEM	EXISTING FACILITY	NEW SUBTITLE D
PRE-DEVELOPMENT COSTS		
Geotechnical Investigations		\$87,000
Site mapping		\$9,749
Engineering design (Class I & IV)		\$235,000
Permit application		\$10,000
Monitoring wells	\$43,429	\$18,000
(a) TOTAL PRE-DEVELOPMENT	\$43,429	\$397,749
INITIAL CONSTRUCTION COSTS		
Erosion & Sediment Facilities (pond and drainage ditches)	\$225,000	
Liners, liner cushion system & internal leachate control (1 acre cell)		\$200,000
Main leachate collection lines and gas venting system	\$56,889	\$60,000
Weighing scales	\$68,539	
Scalehouse and office	\$10,798	
Tire storage area	\$52,014	
Construction engineering & quality control testing		\$47,000
(b) TOTAL INITIAL CONSTRUCTION	\$413,240	\$307,000
ANNUAL OPERATIONAL COSTS		
Salaries		\$98,000
Employee costs		\$11,760
Authority (board) expenses		\$2,000
Communication		\$1,300
Engineering		\$34,000
Evaluation and testing		\$18,000
Maintenance & repair		\$35,000

Travel		\$1,000
Crushed stone		\$23,000
Diesel fuel		\$5,000
Electricity		\$5,000
Erosion control		\$2,000
Gasoline		\$2,000
Lubricants		\$1,500
Office Supplies		\$1,500
Tires and tubes		\$5,000
Building and contents insurance		\$1,922
Trustee's Commission		\$2,000
Equipment insurance		\$2,000
Surcharge		\$12,672
Other equipment		\$40,000
Equipment payments		\$40,000
Bond payment		\$150,000
Set aside for future construction		\$125,000
(c) TOTAL ANNUAL OPERATIONAL COSTS		\$619,654
CLOSURE & POST CLOSURE		
	\$610,000	\$54,500/yr (old)
		\$30,000/yr (new)
(d) TOTAL CLOSURE/POST CLOSURE		\$84,500/yr
ANNUAL COST		
Capital costs (a+b)		\$704,749
(f) Amortization of Capital Costs (20 yrs)		\$70,000
(g) Annual Operating Costs (c)		\$619,654
(h) Annualized closure/post closure costs (d)		\$83,000
TOTAL ANNUAL COST (f+g+h)		\$772,654
Annual tons/yr		14,908
Cost per ton		\$51.83

Note: Costs projected from Randy Corlew, Barge, Waggoner, Cannon and Sumner and past operational costs.

FINANCING PLAN FOR CAPITAL COSTS

Capital costs will be funded from bonds. A \$1 million bond was issued in 1990 but will not fully cover the costs of closing the old landfill and opening a new one. An additional \$704,749 will be needed to open the new landfills. Another bond will be issued.

The current tipping fee is \$24.85/ton. This raises about \$173,000/yr. The county does not pay a tipping fee but does subsidize the landfill currently in the amount of about \$248,000. The costs displayed in the above chart reflect costs during and after construction of the new Subtitle D facility and Class IV landfill. The county supplement will rise to about \$531,749 after installation of the new facilities.

The Authority intends to look into the feasibility of a wheel tax to help fund the increasing solid waste budget. Most citizens drive automobiles but not all own property.

STAFF AND TRAINING

- Solid Waste Director (shared across all programs)
- Landfill Manager
- 3 Equipment Operators
- Administrative assistant (shared across all programs)

Leadership in training will be provided by the state. Further training guidance will be developed when the State distributes further information. The Solid Waste Director and the Landfill Manager will be certified by the state to insure that a certified operator is on site at all times.

**TABLE VIII-4
TEN YEAR DISPOSAL OPERATION AND MAINTENANCE BUDGET**

Year	Annual Costs Including Operation & Maintenance
1994	\$619,654
1995	\$639,488
1996	\$772,654
1997	\$807,378
1998	\$833,214
1999	\$859,876
2000	\$887,392
2001	\$915,788
2002	\$945,093
2003	\$975,335

Excludes capital & closure/post closure

**TABLE VIII-5
TEN YEAR OPERATING AND MAINTENANCE FUNDING PLAN**

Year	Tipping Fees*	County Appropriations
1994	\$292,968	\$326,686
1995	\$269,544	\$369,944
1996	\$260,640	\$512,014
1997	\$280,416	\$526,962
1998	\$254,496	\$578,718
1999	\$249,768	\$610,108
2000	\$247,872	\$639,520
2001	\$243,888	\$671,900
2002	\$239,760	\$705,333
2003	\$235,752	\$739,583

* Assumes tipping fee remains at \$24.00/ton and waste reduction occurs as projected.

INTEGRATION WITH REMAINDER OF THE REGIONAL WASTE MANAGEMENT SYSTEM

The disposal plan and system is integrated into the regional waste management system as a cornerstone program which will be operated by the Authority. The other cornerstones are collection, waste reduction, and education. Operation of the integrated system will be discussed in more detail in Chapter XI and XII.

1994	619,654
1995	639,488
1996	772,654
1999	859,876
2003	975,335

D. IMPLEMENTATION SCHEDULE

Oct
95

**TABLE VIII-6
TEN-YEAR DISPOSAL CAPACITY SCHEDULE**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Complete new Class I facility design	x									
Complete permit process		x								
Revisit landfill alternatives (transfer station)		x								
Review tipping fees	x	x	x	x	x	x	x	x	x	x
Begin Class IV facility permit process & design		x								
Train & certify landfill manager			x							
Begin construction of new Class I cell			x		x		x		x	
Begin const. on Class IV cell				x			x			
Close out old facility			x							
Carry out post closure plan (monitoring, maintenance, etc)				x	x	x	x	x	x	x

E. LOCATION MAP

The location of the existing and planned landfilled facilities can be found on the systems map in Chapter XI.

F. IMPORTED/EXPORTED WASTE

There is no planned imported or exported waste planned in the planning horizon. The possibility of importing waste was discussed during the planning process and will likely be discussed again when the new Subtitle D facility comes on line and cost dramatically increase. Currently there is a county resolution against out of county waste.

PUBLIC INFORMATION AND EDUCATION

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a description of education initiatives aimed at business, industry, schools, citizens, and others, which address recycling, waste reduction, collection, and other goals..." [T.C.A. Section 68-31-815(b)(11)]

"...Each solid waste regional plan shall include an education program to assist adults and children to understand solid waste issues, management options and costs, and the value of waste reduction and recycling." [T.C.A. Section 68-31-842]

A. REGIONAL NEEDS FOR PUBLIC INFORMATION AND EDUCATION PROGRAMS

The regional needs are to develop and implement a comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public.

B. STEPS THE REGION WILL TAKE TO MEET IDENTIFIED NEEDS**Regional Goals and Objectives**

Goal - To change attitudes and behaviors toward the handling of solid waste so that source reduction, recycling, reuse and non-littering become the routine behavior in Claiborne County.

Objectives

- Reduce solid waste generation
- Increase participation in recycling programs
- Maintain high quality in recovered recyclables
- Reduce roadside litter and illegal dumping
- Increase understanding and participation in improved solid waste handling methods.

Target Groups and Audiences

- Schools
- Adults
- Government
- Media
- Business/Industry
- General public

Amount and Kind of Information to be Provided

These goals will be pursued through many focused activities, projects, publicity and education campaigns designed to explain the mission of PCC-KAB and to increase participation. Following is a listing of planned activities identified for the planning horizon. A plan of work will be developed and updated annually.

- Organize with local governments a regional Household Hazardous Waste Collection program each year
- Grocery bag stuffers on recycling program at three grocery stores
- In-school recycling for aluminum cans at interested schools
- Mini-grants to (2) schools for Trashinator Clubs
- Litter free event promotion at annual county fair, 10 high school ballgames and other events
- Develop and distribute promotion items: magnets, pencils, mugs, etc.
- Car litterbags (4,000) and boat litterbags (20,000)
- Awards program - clean docks, clean business, clean yard, etc. (one each category each year)
- Newsletter (2 yearly)
- Bank statement inserts (2 yearly)
- Employee check envelope inserts (3 companies)
- Marquee messages (10 businesses)
- Schools programs
 - formal program in 4th and 7th grades where educator travels between nine schools for a period of days (similar to the D.A.R.E. program) teaching about solid waste handling, littering, source reduction and recycling.
 - mini-grants to schools for Trashinator Clubs
 - support and participate in the Clinch-Powell RC&D Council education programs Water Wizards (3rd grade) and Conservation Camps (6th grade) which have strong solid waste education components.
 - Support plays by high school drama clubs with small seed grants
 - Hold Enviro2000 teacher in-service training annually for county teachers and educators with annual emphasis on solid waste education.
 - Sponsor rhyme, poem, art contests with solid waste themes.
 - Hold annual Earth Day Art Expo for elementary students with solid waste/environmental theme and display artwork publicly.
 - Kid "Earth Art" Calendar
- Restaurant tray liners with solid waste message at restaurants
- Purchase and place "Rotten Truth" videos in libraries for rental
- Hold convenience center attendants and other solid waste employee training and annual recognition program.
- Educational stuffers in business licenses
- Tube of Trash education tool
- Presentations to groups and clubs in a speakers bureau format
- Develop educational centers at convenience centers
- Hold government forums to build teamwork in fighting illegal dumping
- Regular news articles in newspaper
- Displays

- Courthouse/City Hall exhibits
- Actively promote community service in lieu of fines
- Publish before/after pictures in newspaper of clean ups
- Promote office recycling with "how to" guides
- Develop public "how to" guides for residential recycling
- Promote "preycling" at retail businesses through posters, flyers and stuffers
- Sponsor business/industry waste reduction seminars and workshops
- Prepare "ready to go" presentations, demonstrations and project ideas for volunteers and others to use for a variety of audiences and age groups.

Methods to Be Utilized

a. School-based instruction - KAB curriculums Waste In Place and Waste: A Hidden Resource and Frog Pond have been purchased and placed at every school in the county. Teacher In-Service on these curriculums was attended by 16 teachers from Claiborne County Schools in 1993. Annual In-Service will be held on a variety of solid waste education materials including Project SWEEP. A survey will be conducted of educators to determine to what extent and in what formats they are teaching solid waste. An instructor based program will be pursued and implemented similar to the D.A.R.E. program targeting the 4th and 7th grades.

b. Workshops, conferences, and training courses - Training for convenience center operators, forums for litter prevention, waste reduction seminars for business/industry

c. Audio-visual materials, slides and videos - Slide presentations will be developed for local use and videos placed in libraries on solid waste subjects like "The Rotten Truth" produced by the Children's Television Network

d. Publications - Various pamphlets, calendar, brochures, flyers, stuffers, etc. will be developed and used in numerous situations.

e. Contests and awards - Awards for clean business, clean convenience center, etc. will be developed.

f. Exhibits or demonstrations - Numerous exhibits at fair, courthouse and other appropriate places.

g. Speaker's Bureau - Participation in a Speaker's Bureau will continue.

h. Other - Many other methods will be employed as outlined in the previous section.

Staff and Budget Needs

Staff - The Claiborne County education program will be carried out by staff of Partners for Clean Communities Keep America Beautiful System which will be supported by each participating county.

KAB Coordinator (shared with 4 other counties)
 KAB Education Assistant (shared with 4 other counties)
 KAB Part-time Clerical (shared with 4 other counties)

**TABLE IX-1
 PUBLIC EDUCATION BUDGET**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
PCC-KAB	\$13100	\$16400	\$16925	\$9500	\$9600	\$9700	\$9800	\$9900	\$10000	\$10100

**TABLE IX-2
 PUBLIC EDUCATION FUNDING PLAN**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
PE Grant	\$7500	\$7500	\$7500	*	*	*	*	*	*	*
Litter Grant	\$3900	\$5200	\$5200	\$5200	\$5200	\$5200	\$5200	\$5200	\$5200	\$5200
Prop. Taxes	\$1700	\$3700	\$4225	\$4300	\$4400	\$4500	\$4600	\$4700	\$4800	\$4900

* Public education grants are scheduled to end in 1997.

Evaluation and Reporting

Evaluation of the program will be carried out in several ways. Measurement of waste reduction will be an important evaluation tool, as will weights and volumes of collected recyclables. Training will be measured by numbers of participants attending workshops and seminars and with follow up on information/skills used with surveys and questionnaires. Pre and post tests will be used with students. Reports will be submitted to the state as requested and required. Keep America Beautiful requires semi-annual reports as well.

C. TEN YEAR IMPLEMENTATION SCHEDULE

**TABLE IX-3
TEN-YEAR EDUCATION IMPLEMENTATION SCHEDULE**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
School Based Instruction	x									
Workshops	x									
AV/Slides		x								
Publications	x									
Awards			x							
Exhibits	x									
Speakers Bur.	x									

x - When program begins. Shading indicates annual or on-going activity.

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a plan for the disposal of household hazardous wastes; [t.c.a. 68-31-815(b)(8)]

"...Each county...shall provide a service site and shall advertise...the day(s) and hours and location where the household hazardous wastes will be collected...[and]...furnish at least one(1) person...who will assist...[at the] collection unit." T.C.A. 68-31-829].

"...Effective January 1, 1995, no municipal solid waste disposal facility or incinerator shall accept for disposal any whole waste tires, lead acid batteries, or used oil..." [T.C.A. 68-31-866(a)]

"...By January 1, 1995, each county shall provide at least one (1) site to receive and store waste tires, used automotive oils and fluids, and lead-acid batteries...[and]...shall sell and/or cause the transfer of the recyclable materials...to a commercial recycler or a regional receiving facility..." [T.C.A. 68-31-866(b)]

"...(E)ach plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant to the implementation of the Act." [T.C.A. 68-31-815(b)(15)]

The Solid Waste Management Act directly addresses four problem wastes. The region of Claiborne County, in its plan, must describe how the regional programs will interface with the state household hazardous waste collection service. The Act also bans disposal of scrap tires, batteries and waste oil in landfills after January 1, 1995, and requires the County to develop an infrastructure for accepting, storing, recycling or safe disposal of these materials by the end of 1994. The regional plan addresses these requirements.

The Act does not address litter prevention/education/remedial action programs. However, the community efforts funded by the litter grants are acknowledged, evaluated, and incorporated into the regional plan.

No data on current handling of waste tires, used oil or lead acid batteries was collected in the District Needs Assessment. The Act bans these materials from landfills or incinerators by the end of 1994, and requires the County to provide a site to receive and store them for ultimate recycling and disposal. The regional plan describes how the Region will collect necessary data to locate, design and open these

collection sites by the statutory deadline. Specific information included for each problem waste is provided in the pages that follow. A more detailed plan will be required when the regional plan is updated in 5 years.

A. HOUSEHOLD HAZARDOUS WASTE (HHW)

Regional Needs for a HHW Management Program

- 1) Identify an appropriate temporary site for collection.
- 2) Promote the collection event through advertisement and education; and,
- 3) Provide a County site representative during the collection event.

Several potential temporary locations have been identified by the county for the collection, sorting and packaging of HHW. Given the minimum requirements of a temporary site required by the Tennessee Department of Environment and Conservation, as cited in the Policy Guide on County Responsibilities for the Tennessee HHW Collection Program, 1993, appropriate locations in Claiborne County could be:

TNT School
Claiborne County High School

Seven to fifteen days prior to the Collection Event, the County will allow the HHW collection contractor to inspect the site in order to finalize plans for the event. The County will have a site location identified when submitting a request in writing to the State for the collection service. The request will identify any of the site criteria that are impossible for the County to meet. The County will provide one or more waste containers for the collection of non hazardous household waste at each collection event and provided for the proper disposal of the non hazardous wastes.

The County will advertise in the local newspapers the date, hours and location of the Collection Event. The advertisement will be published at least two full weeks preceding the event date and during the week of the event. The ad will specify that only 110 pounds of waste will be accepted from each household during the event and list the items excluded from the programs, as well as examples of acceptable items. The ad will indicate that the collection and disposal costs will be paid by the State of Tennessee.

The County will provide educational materials and brochures concerning HHW collection and disposal to the public. Educational materials provided by the contractor and the State will also be made available for use by the County. In addition, Partners for Clean Communities Keep America Beautiful System will promote the event through local schools, businesses, civic organizations and the general public.

A site representative will be provided by the County and available on site to represent the county during the Collection Event. The site representative will safeguard the County property used by the collection contractor (land and waste containers and manage problems that may arise during the collection of HHW with county-owned utilities and the non hazardous waste containers.

The site representative will be available to assist the collection contractor in the event of an emergency. Telephone numbers for the local law enforcement, emergency response, and nearest medical facilities and the address of the medical facilities will be provided to the collection contractor. The site representative will be responsible for notifying the proper authorities if necessary.

Provided below is an estimate of the program costs to the County for a HHW collection program.

HOUSEHOLD HAZARDOUS WASTE COLLECTION

PROGRAM ELEMENTS	PROGRAM COSTS
Site (containers)	\$0 County owned
Advertisement	\$200 (flyers, brochures, newspaper)
Site Representative	<u>\$60</u> (\$6/hr @ 10 hrs.)
Total	\$410

Site Criteria:

- Be accessible by paved roads
- Convenient location
- Paved working area (100 ft. X 100 ft)
- Accommodate at least 15 cars
- Clean water source
- Toilet facilities
- Telephones
- 110 electrical outlet

Progress of the program will be reported annually to the State on the types and amounts of HHW collected and the number of people served by the program.. As pre T.C.A. Section 68-211-863(b), the region will submit these annual reports to the State Planning Office.

B. WASTE TIRES

The current (1993) waste tire handling and disposal practices in Claiborne County will be supported by a waste tire storage site located at the Claiborne County landfill. The site will store approximately 30,000 tires. The existing storage site will be capable of handling the current discard rate. On two separate occasions in 1993, tires were shred using the state Mobile Tire Shredding Program. Shredded tires were disposed in the County Landfill.

The county will continue to inventory illegal tire piles and estimate the quantity of tires in each through the operations of the county litter prevention program.

Education efforts to impact illegal dumping will be coordinated with the Partners for Clean Communities Keep America Beautiful System.

Estimated operational costs on the maintenance of the storage site, vector control, and shredding operation support will be integrated into the daily activities of the landfill operator already on site at the County Landfill.

C. WASTE OIL

Waste oil is currently collected at two convenience center locations and at several gas stations and industrial plants throughout the county by the private sector. The Authority plans to install oil collection bins in all four convenience centers during development of new centers. Other automotive fluids will be collected by the private sector in industrial sites.

D. LEAD ACID BATTERIES

Lead acid batteries are currently accepted for recycling at Dave's Recycling Center in New Tazewell. Batteries will also be collected during Household Hazardous Waste collection events. The Authority will support, promote and publicize the battery collection program at Dave's as part of their integrated operations.

E. LITTER

The county will continue to operate the litter prevention program for the collection of roadside litter and the clean-up of identified roadside dumps. The County hires a litter officer with pick-up of litter using work release prisoner labor.

Litter education will be provided by Partners for Clean Communities Keep America Beautiful System and supported, in part, by a portion of the Litter Grant Fund designated for education.

F. TIMETABLE FOR PROBLEM WASTE COLLECTION PROGRAM

Provided below is a timetable to indicate the schedule of events planned with regards to problem waste collection.

Table X-1

**TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION PROGRAM IN
CLAIBORNE COUNTY**

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify rep. Schedule and hold collection event.		x								
Oil and battery collection	x		x							
Waste tire collection*	x									
Litter collection*	x									

x When implementation begins.

** Waste tire, oil and litter collection programs began before 1994, and will continue throughout the ten-year planning period*

IMPLEMENTATION: SCHEDULE, STAFFING AND FUNDING

In this chapter, decisions about the components and structure of an integrated solid waste management system are revisited.

A. SYSTEM DEFINITION**GOAL**

Comprehensive and integrated solid waste management in Claiborne County which is environmentally and financially sound, meets long term needs of development and is in the best interest of citizens.

OBJECTIVES

- Develop an implementation plan which meets state regulations, serves the best interests of citizens, is practical and financially responsible.
- Provide adequate collection of municipal solid waste from citizens through a network of service centers.
- Plan for 10 year disposal (landfill) capacity to serve Claiborne Countians and provide for economic growth and expansion.
- Reduce waste by 25% by December 31, 1995 through recycling, waste reduction, reuse and responsibility.
- Educate children, adults, business, industry, and government sectors on proper solid waste management including financial and environmental impacts.

The current system in the Claiborne County region is not integrated. The Sanitation Board oversees the landfill and convenience centers. The county executive oversees the litter grant program. Partners for Clean Communities oversees the education program. There is currently no publicly supported recycling program in the county.

Implementation of this Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex issues. It will require coordination of collection, transportation, disposal, recycling, reduction and education programs. It will require completion of

frequent detailed reports on every component of the plan and an annual report of implementation and revision.

Mandates will best be met and costs controlled by reorganization of the current Sanitation Board and the Solid Waste Planning Board into an organization structured to carry out the required Ten Year Solid Waste management Plan in the most cost effective and efficient manner.

The Sanitation Board will be abolished upon adoption of this Ten Year Municipal Solid Waste Management Plan and the Claiborne County Solid Waste Authority will be created and be composed of five members. Two members will be county commissioners and three will be members at-large. The Solid Waste Planning Board will serve in an advisory capacity but powers and responsibilities of the planning board will be transferred to the Authority. The Solid Waste Authority will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to a solid waste director who will be responsible for solid waste disposal, collection, waste reduction and education in the region of Claiborne County.

COLLECTION AND TRANSPORTATION

Analysis of the current collection system indicates that all citizens are adequately served with nine convenience centers and house to house collection in the cities of Tazewell, New Tazewell and Cumberland Gap. However, the cost to provide this level of service is very high. Escalating costs associated with implementing requirements of the 1991 Solid Waste Act necessitate a reduction of convenience centers to four. The collection system will be further changed to a roll-off compactor design at all convenience centers. All green boxes and front end loader trucks (4 total) will be sold. This change will reduce the collection costs by about 50 percent over the current collection and transportation budget annually.

WASTE REDUCTION

The strategy for reaching waste reduction goals has already been set in motion. Recycling drop off containers are being placed in convenience centers to collect glass, plastics, steel cans, aluminum cans, old newspapers, waste oil and white goods. Two additional drop off sites are planned for the cities of Harrogate and New Tazewell. The Harrogate site will also have a drop off container for cardboard if the grant application is approved. A Class IV facility is planned to divert wood waste and construction and demolition waste. Support and encouragement will play an important part in increasing waste reduction in the commercial, industrial and institutional sector. An aggressive education program is critical to the success of the waste reduction plan and is discussed in Chapter IX. The school system is targeted for an aggressive campaign for waste reduction.

Collected recycled materials will be processed and marketed at Dave's Recycling (privately owned and operated) in New Tazewell. The Authority will join the Recycling Marketing Cooperative for East Tennessee for additional marketing of collected materials.

Whole tires and batteries will be banned from the landfill. Whole tires are currently collected and will be periodically shredded. The planning board is in support and in dialogue with surrounding counties concerning the potential of attracting an end user for tires. Dave's Recycling in New Tazewell collects lead acid batteries.

There are no current or planned economic incentives or disincentives in the region although possibilities have been discussed if future conditions adoption.

Source reduction, especially precycling, has been discussed and is a focus area in education programs. Quantification of this waste reduction component is difficult. The Authority will prepare and seek approval of resolutions and ordinances by county and city governments to adopt recycled content resolutions for purchase of supplies.

Residential Recycling - The current level (1993) of residential recycling is about 700 tpy. The projected level of residential recycling in 1995 is 809 tpy and in 2003 is 1527 tpy.

Commercial and Industrial Recycling - Current (1993) commercial and industrial recycling totals approximately 1285 tpy. This is projected to increase to 1400 tpy in 1995 and 3510 tpy by 2003.

Industrial Diversion - 1993 diversion from industrial processes accounts for about 1022 tpy. Most of this is used in an internal permitted waste to energy facility at Brooks Furniture. The projected diversion rate is expected to be documented at 2600 tpy in 1995 and to remain fairly constant during the planning horizon.

DISPOSAL

A discussion of disposal needs versus supply is necessary here specific to the region of Claiborne County. Based on the 1989 UT baseline study, the Claiborne County Sanitation Board commissioned Barge, Wagoner, Sumner and Canon to conduct a feasibility study for the construction of a new Class I, Subtitle D landfill. Based on this study, the county issued a \$1 million bond and instructed the engineers to begin the design and process of permitting a new landfill facility. The study and design were prepared based on disposal of 104 tpy which was the volume indicated in the 1989 UT study. Installation of scales at the landfill in October 1993 have proven that the actual tonnage disposed at the landfill will be no more than 18,000 tpy rather than the 32,448 tpy originally projected.

The impacts of this information are severe. Firstly, the landfill design and bond issued is to be paid off from tipping fees instituted based on the Barge Wagoner study projecting 104 tpy. With actual wastes being disposed at less than half the projected amount, the cost per ton for disposal is more than twice the projected dollar amount. Secondly, the design (which is about half complete) is overbuilt as planned based on 104 tpy.

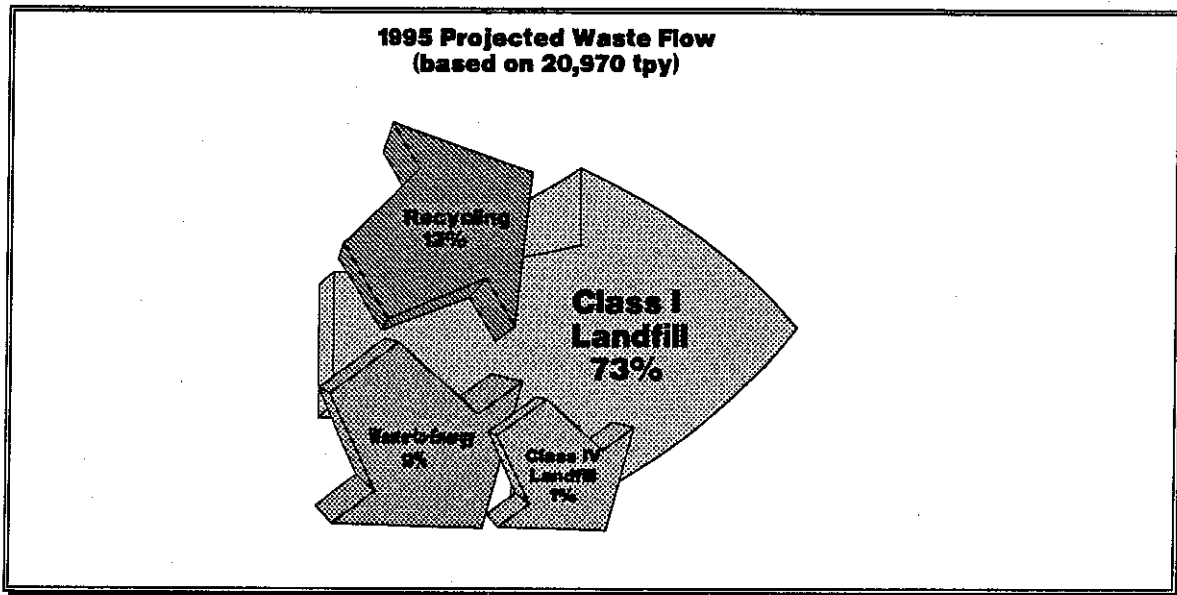
Careful analysis of the situation resulted in changes in the planned design and installation. The design plan originally called for the initial construction of a five acre cell. This is being reduced to a one to one and one-half acre cell projected to serve for two years. These changes will reduce the costs involved to initially construct the facility, reduce the per ton cost and reduce costs to maintain and manage the constructed liners in the cell. If, for some unforeseen reason, the demand for more capacity arises the site is more than adequate to accommodate the additional tonnage with construction of additional or larger Class I cells. The permitted site will 17 acres when approved.

A Class IV cell or facility will be planned for construction in 1997 to accept construction and demolition waste.

EDUCATION

A comprehensive, integrated information, education and publicity program which targets all sectors of the community including adults, children, government, business and industry and the general public has been designed with leadership given to Partners for Clean Communities Keep America Beautiful System. Goals will be pursued through many focused activities, projects, publicity and education campaigns designed to increase understanding and participation.

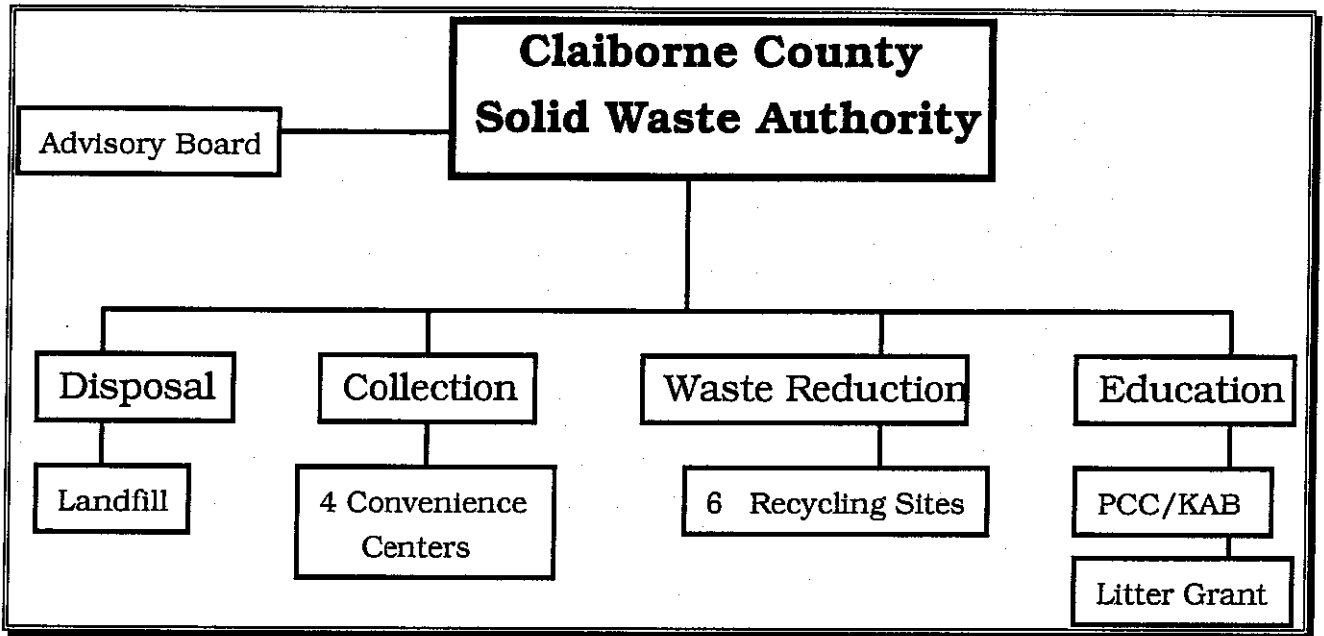
The primary methods to be used are school based instruction, workshops and training, audio-visual materials, slides and videos, publications, contests and awards, exhibits and demonstrations, and a speaker's bureau.



INSTITUTIONAL STRUCTURE

Implementation of the Municipal Solid Waste Management Plan will require coordination, oversight, monitoring and supervision. Stringent regulations will require trained staff, experienced in working with details, engineering plans, mandates, and complex issues.

The Claiborne County Solid Waste Authority will be formed and composed of five members. Two members will be county commissioners and three members will be citizens at large. The Solid Waste Authority will maintain an advisory board and will set policy and provide direction and general oversight of all solid waste management components in the county under the broad categories of Disposal, Collection, Waste Reduction and Education. Day to day program management, program supervision and responsibility will fall to the Solid Waste Director who will be hired and be responsible for the entire integrated solid waste management system including disposal, collection, waste reduction and education in the region of Claiborne County.



B. IMPLEMENTATION SCHEDULE

TEN YEAR TIMETABLE FOR COLLECTION AND TRANSPORTATION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Construct/ Upgrade Centers	x	x								
Issue Capital Notes for Equipment	x									
Train Staff	x	x								
Integrate Recycling Services	x	x								
Data Collection Annual Reports		x								
Purchase Truck & Equip	x									
Plan Updates						x				

TEN YEAR TIMETABLE FOR RECYCLING AND WASTE REDUCTION

Program Item	Respon Organ.*	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Buy recycled campaign	PCC/KAB Authority		X	X	X						
Promote/Conduct waste audits	Authority		X	X	X						
Establish Goodwill collection sites	Authority Goodwill		X								
Research waste exchange	Authority		X	X							
Work w/Hab. for Humanity	Authority		X	X							
Establish. six recycling sites	Authority Harrog. N. Tazew	X	X								
Establish 4 white goods sites	Authority		X								
One cardboard drop off site	Authority Harrog.		X								
Schools recycling program	Authority Schools PCC		X	X							
Expand newspaper/ bedding program	Authority RC&D	X	X								
Expand markets	Authority Dave's RMCET		X	X	X						
Hire recycling coordinator	Authority		X								
Meet 25% reduction goal	Authority		X								
Expand recy./diver survey	Authority		X	X	X						
Data collection & reports	Authority Dave's		X	X	X	X	X	X	X	X	X
Class IV landfill	Authority			X							
Revise 10-year plan	Authority							X			

NOTE: "X" denotes milestone period and shading denotes on-going operation/ emphasis of program item.

TEN YEAR TIMETABLE FOR DISPOSAL CAPACITY

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Complete new Class I facility design	x									
Complete permit process		x								
Revisit landfill alternatives (transfer station)		x								
Review tipping fees	x	x	x	x	x	x	x	x	x	x
Begin Class IV facility permit process & design		x								
Train & certify landfill manager			x							
Begin construction of new Class I cell			x		x		x		x	
Begin const. on Class IV cell				x			x			
Close out old facility			x							
Carry out post closure plan (monitoring, maintenance)				x	x	x	x	x	x	x

TEN YEAR TIMETABLE FOR PUBLIC EDUCATION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
School Based Instruction	x									
Workshops	x									
AV/Slides		x								
Publications	x									
Awards			x							
Exhibits	x									
Speakers Bur.	x									

TEN YEAR TIMETABLE FOR PROBLEM WASTE COLLECTION

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Select and finalize site for HHW. Advertise. Identify site rep. Schedule and hold collection event.		x								
Oil collection	x									
Battery collection			x							
Waste tire collection*	x									
Litter collection*	x									

x When implementation begins.

* Waste tire, oil and litter collection programs began before 1994, and will continue throughout the ten-year planning period

C. STAFFING AND TRAINING REQUIREMENTS

Current Staffing (1993)

- *Landfill Manager (1)
- Landfill Operators (3)
- Landfill Secretary (1)
- Truck Drivers (3)
- *Convenience Center Attendants (9)

* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA.

Future Staffing (1995 - 2003)

Management

- * Solid Waste Director (1)
- Administrative Assistant (1)

Disposal

- *Landfill Manager (1)
- Landfill Operators (3)

Waste Reduction

- Recycling Coordinator (1)

Collection and Transportation

- Truck Driver (1)
- *Convenience Center Operators (5)

* Denotes employees required to be trained and certified under the SWMA of 1991. Training will be sought when guidelines are issued from the state per TCA. Specifics on anticipated hiring and training in a matrix format can be viewed in Section B of this Chapter.

D. BUDGET

TEN YEAR COLLECTION AND TRANSPORTATION BUDGET

Year	Capital Costs	County Annual Costs	Tazewell	New Tazewell	Cumber. Gap	Total
1994	\$408,708	\$152,482	\$15,600	\$32,200	\$9,862	\$210,144
1995		\$162,397	\$16,099	\$33,230	\$10,178	\$221,904
1996		\$167,594	\$16,614	\$34,293	\$10,503	\$229,004
1997		\$172,957	\$17,146	\$35,391	\$10,839	\$236,333
1998		\$178,491	\$17,695	\$36,524	\$11,186	\$243,896
1999		\$184,203	\$18,261	\$37,692	\$11,544	\$251,700
2000		\$190,097	\$18,845	\$38,898	\$11,913	\$259,753
2001		\$196,180	\$19,448	\$40,143	\$12,294	\$268,065
2002		\$202,458	\$20,070	\$41,428	\$12,688	\$276,644
2003		\$208,937	\$20,713	\$42,754	\$13,094	\$285,498

TEN YEAR WASTE REDUCTION BUDGET

Waste Reduction	Capital Outlay	Annual Costs
1994	\$25,000	\$26,625
1995	\$20,000	\$27,477
1996	\$23,200	\$28,356
1997		\$29,264
1998		\$30,200
1999		\$31,167
2000		\$32,164
2001		\$33,193
2002		\$34,255
2003		\$35,351
Total	\$80,225	

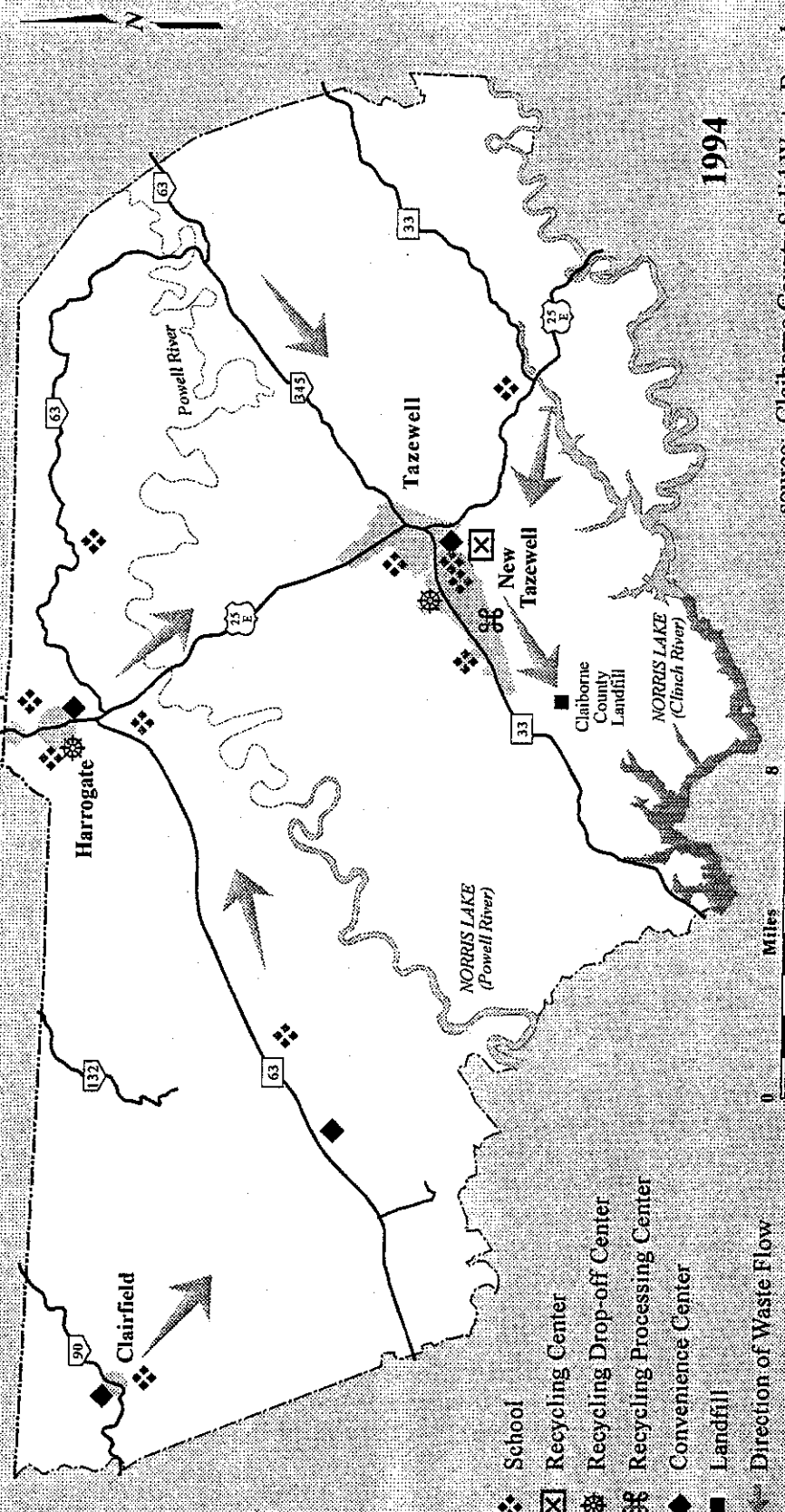
TEN YEAR DISPOSAL OPERATION AND MAINTENANCE BUDGET

Year	Annual Costs Including Operation & Maintenance
1994	\$619,654
1995	\$639,488
1996	\$772,654
1997	\$807,378
1998	\$833,214
1999	\$859,876
2000	\$887,392
2001	\$915,788
2002	\$945,093
2003	\$975,335

TEN YEAR PUBLIC EDUCATION BUDGET

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Public Education	\$13100	\$16400	\$16925	\$9500	\$9600	\$9700	\$9800	\$9900	\$10000	\$10100

Claiborne County Planned Regional Solid Waste System



1994

source: Claiborne County Solid Waste Board

- ◆ School
- ☒ Recycling Center
- ⊗ Recycling Drop-off Center
- ⊗ Recycling Processing Center
- ◆ Convenience Center
- Landfill
- Direction of Waste Flow

**ALLOCATION OF IMPLEMENTATION RESPONSIBILITIES:
PLAN ADOPTION AND SUBMISSION**

Claiborne County remains a one county region, therefore the full responsibility for implementation resides with the county. The regional plan has been formally adopted by resolution of the Solid Waste Planning Board and by resolution of the Claiborne County Commission. Also by resolution, the Claiborne County Commission has formed the Claiborne County Solid Waste Authority to assume responsibility for implementing the Ten Year Municipal Solid Waste Plan. The Authority was formed by resolution in May, 1994 and becomes official with the first meeting of the board of directors.

The local Planning Commission has been given the opportunity to review and comment on this Ten Year Plan.

PART III

APPENDICES

APPENDIX A

LEGAL DOCUMENTATION AND ORGANIZATION OF THE REGION

DESCRIPTION OF THE ADMINISTRATIVE BOARD

LIST OF MEMBERS, JURISDICTION AND TERM OF OFFICE

George Harbison	County	2 years
Thelma Price	County	2 years
Dot Lewis	New Tazewell	4 years
Joanne Webb	Cumberland Gap	4 years
Douglas Overton	Tazewell	4 years
Clyde Breeding	County	6 years
Randall England	County	6 years

OFFICERS (1993 - 1994)

George Harbison	Chairman
Douglas Overton	Vice-Chairman
Dot Lewis	Secretary

DESCRIPTION OF THE STRUCTURE AND ROLE OF REGIONAL ADVISORY BOARD

Mission Statement - Function as the sounding board, provide guidance, advice and assistance as needed to the Solid Waste Regional Planning Board.

Summary of Activities - Advisory Board was consulted primarily on a one on one basis concerning planning issues which would impact the sectors each member represented. The board met as a body to review the completed plan.

Probable Role in Implementation - The planning advisory board will be disbanded. When the authority begins operation, the Solid Waste Planning Board will serve as the Advisory Board to the Authority with the same functions and mission.

List of Members, Representation and Term of Office

Following is a list of Advisory Committee Members. All terms of office end July 1, 1994.

Russell Keck, Farm Bureau
Dave Champagne, Dave's Recycling
Q.G. Fortson, Chamber of Commerce
Hershell Beeler, Private Hauler
Dennis Shipley, Signal Knitting Mills
Scott Miller, Lincoln Memorial University
Ron Morgan, Claiborne Progress
Roy Norris, Superintendent of Schools
Clyde Nevils, Citizen
Larry Lone, Petroleum Manager

Maynard Brooks, Straight Creek Boat Dock
Samuel Duncan, Alderman, New Tazewell
Stanley Bundren, II, Alderman, Tazewell
Theodore Keck, Landfill Manager
Robert Douglas, Alderman, Cumberland Gap
Lynn Jimison, McDonalds
Paul Lundy, Alderman, Harrogate
Marcy Dixon, Wal-Mart
Imogene Ault, Claiborne County Schools
JamesHurst, Ingles

8. DEPARTMENT OF EDUCATION RESOLUTIONS: (Budget Amendments)
(Continued from pages 113 and 114)

(4)

<u>REVENUE:</u>	<u>INCREASE</u>
ACCT. NO. 47141	\$22,539.00
<u>EXPENDITURE:</u>	
ACCT NO.	
752-201	\$3,266.00
752-204	3,551.00
752-205	2,571.00
752-210	90.00
752-513	214.00
771-189	8,413.00
791-590	405.00

This does not include any local monies.

s/Roy K. Norris, Supt.
Claiborne County Schools

7. RESOLUTION - CREATING CLAIBORNE COUNTY'S MUNICIPAL SOLID WASTE
PLANNING REGION:

MOTION by Commissioner Dane Poore, seconded by Commissioner Dennis Estes that the Resolution creating the county's municipal solid waste planning region be adopted.
Roll call vote taken with all present 18 commissioners voting for the Resolution adoption.

The Committee to be appointed at the December 1992 meeting.

Resolution

WHEREAS, the adoption of the Subtitle D landfill regulations by the United States Environmental Protection Agency and companion regulations adopted by the Tennessee Solid Waste Control Board will impact on both the cost and method of disposal of municipal solid waste, and

WHEREAS, at the urging and support of a coalition of local government, environmental, commercial, and industrial leaders, the 97th TN General Assembly enacted T.C.A. 68-211-801 et seq. titles "Solid Waste Management Act of 1991", and

WHEREAS, with the view that better planning for solid waste will help control the additional costs that will be imposed by the new landfill regulations, help protect the environment, provide an improved solid waste management system, better utilize our natural resources, and promote the education of the citizens of Tennessee in the areas of solid waste management including the need for and desirability of reduction and minimization of solid waste, local governments in TN supported and work for the passage of this Act, and

WHEREAS, one of the stated public policies of this Act is to institute and maintain a comprehensive, integrated, statewide program for solid waste management, and

WHEREAS, as per T.C.A. 68-211-811 the nine development districts in the State of Tennessee have completed a district needs assessment which are inventories of the solid waste system in Tennessee, and

WHEREAS, Claiborne County's Board of County Commissioners has given consideration to the needs assessment prepared by East Tennessee development district, and

WHEREAS, TCA 68-211-813, requires that counties in the State of Tennessee form municipal solid waste regions no later than December 12, 1992, and

WHEREAS, the Act's stated preference is the formation of multi-county regions with counties having the option of forming single or multi-county municipal solid waste regions, and

WHEREAS, the State of Tennessee will provide grant monies of varying amounts to single county, two county, and three or more county municipal solid waste regions to assist these regions in developing their municipal solid waste region plans, and

WHEREAS, the primary and prevailing purpose of the municipal solid waste regions are the preparations of municipal solid waste regional plans which among other requirements must identify how each region will reduce its solid waste disposal per capita by twenty-five percent (25%) by December 31, 1995, and a planned capacity assurance of its disposal for a ten (10) year period, and

7. RESOLUTION - SOLID WASTEPLANNING REGION: (Continued from page 115)

WHEREAS, the development of a municipal solid waste regional plan that results in the most cost effective and efficient management of municipal solid waste is in the best interest of the citizens of Claiborne County.

NOW THEREFORE BE IT RESOLVED, by the Board of County Commissioners of Claiborne County, Tennessee, acting pursuant to T.C.A. 68-211-801 et seq. that there is hereby established a Municipal Solid Waste Region for and by Claiborne County, Tennessee, and

BE IT FURTHER RESOLVED, that pursuant to T.C.A. 68-211-813 (a) (2), that the Board of County Commissioners of Claiborne County Tennessee finds and determines that Claiborne County shall be and shall constitute a single county municipal solid waste region due to the following: There has not been enough time to adequately research the positive and negative impacts of planning with other counties based on the recommendations of the district Needs Assessment: and

BE IT FURTHER RESOLVED, that this Municipal solid Waste Region Board shall be composed of seven members; one representing each of the cities providing solid waste collection and four members representing the county; three of thich will be non-government representatives.

BE IT FURTHER RESOLVED, that pursuant to T.C.A. 68-211-813 (b)(1) four Board members shall be recommended by the County Executive and approved by this Board of County Commissioners and, due to the fact that Tazewell collects or provides disposal services through its own initiative or by contract, the city of Tazewell shall have a Board member recommended by the Mayor of Tazewell and approved by the City Council of Tazewell, and due to the fact that New Tazewell collects or provides disposal services through its own initiative or by contract, the City of New Tazewell shall have a Board member recommended by the Mayor of New Tazewell and approved by the City Council of New Tazewell and, due to the fact that Cumberland Gap collects or provides disposal services through its own initiative or by contract, the Town of Cumberland Gap shall have a Board member recommended by the Mayor of Cumberland Gap and approved by the Town Council of Cumberland Gap.

BE IT FURTHER RESOLVED, that members of the Board of the Municipal Solid Waste Region shall serve a six (6) year term except that two (2) members approved by the County shall have a two (2) year term, that one (1) member approved by the City of Tazewell shall serve a four (4) year term, that one member approved by the city of New Tazewell shall serve a four (4) year term, that one (1) member approved by the Town of Cumberland Gap shall serve a four (4) year term, that two (2) members approved by the county shall have a six (6) year term, and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region Board shall have all powers and duties as granted it by T.C.A. 68-211-813 et seq. and in addition, in the performance of its duty to produce a municipal solid waste region plan, it shall be empowered to utilize existing Claiborne County governmental personnel, to employ or contract with persons, private, consulting firms, and/or governmental, quasi-governmental, and public entities and agencies and to utilize Claiborne County's services, facilities and records in completing this task, and

BE IT FURTHER RESOLVED, that at the Municipal Solid Waste Region Board's initial organizational meeting it shall select from its members a chair, vice chair, and secretary/treasurer and shall cause the establishment of a municipal solid waste advisory committee whose membership shall be chosen by the Board and whose duties are to assist and advise the Board, and

BE IT FURTHER RESOLVED, that the Municipal Solid Waste Region Board in the furtherance of its duty to produce a municipal solid waste region plan, is authorized to apply for and receive funds from the State of Tennessee, the federal government, Claiborne County, Tazewell City, New Tazewell City and Town of Cumberland Gap, and to apply for and receive donations and grants from private corporations and foundations, and

BE IT FURTHER RESOLVED, that Claiborne County shall receive, disburse and act as the fiscal agent for the administration of the funds of the municipal Solid Waste Region and the Region's Board, and

BE IT FURTHER RESOLVED, that upon the passage of this Resolution and at no later date than December 31, 1992, the County Clerk of Claiborne County shall transmit a copy of this Resolution to the Tennessee State Planning Office.

RESOLVED BY: THE BOARD OF COUNTY COMMISSIONERS OF CLAIBORNE COUNTY, TENNESSEE, this 16th day of November 1992, the welfare of the citizens of Claiborne County requiring it.

ATTEST: Evelyn Hill, County Clerk SPONSOR: Dane Poore, County Commissioner
APPROVED AS TO FORM: APPROVED: Bill D. Hurst, Co. Executive
James D. Estep, III, County Attorney

CERTIFICATE

I, Evelyn M. Hill, County Clerk, do hereby certify that the foregoing is a true and correct copy as the same is in my office, in Book No. 66/115-116

This 25 day of Feb, 1993
Evelyn M. Hill

8. LITTLE SYCAMORE ROAD: (continued from page 119):

Resolution

WHEREAS, a certain portion of the Little Sycamore Road, and particularly what is commonly referred to as the upper portion, is being neglected and is in need of repair, and

WHEREAS, all efforts and persuasions to get the needed repairs have been unsuccessful, and

WHEREAS, this is a heavily traveled highway and especially by some of the leading farmers in the county, and

WHEREAS a large amount of gasoline tax is generated by the farmers and other people who use this highway, and

WHEREAS, the people who use this highway are justly entitled to expect a reasonable amount of their tax money be spent on the maintenance of this section of the road, now

THEREFORE BE IT RESOLVED by this Claiborne County Commission meeting in regular session on this the 14th day of December 1992; that the County Road Commissioner be requested to keep this road in a reasonable state of repair, and

BE IT FURTHER RESOLVED and that if it should be determined that the necessary repairs could be done more cheaply, that a small portion of funds derived from the gasoline tax, be earmarked or allocated to pay some private contractor to do some repairs, when urgently needed.

This resolution to become effective upon its adoption the welfare of the county requiring it.

This the 14th day of December 1992.

ATTEST: s/Evelyn M. Hill, County Clerk
s/Bill D. Hurst, County Executive.

ROLL CALL VOTE TAKEN:

VOTING FOR THE RESOLUTION ADOPTION: Commissioners Rodney England, Bill M. Brooks, Brownlow Sweet, Randy Duncan, Dwight England, Coolidge Whitaker, Cennis Estes, Clyde Breeding, Mitchell Cosby, Homer Sowers, Hubert Muncy, Michael Campbell, Marshall Gilbert, John Templin, Troy Poore, Dennis Graves.
VOTING AGAINST: Commissioners Dane Poore and Carolyn Thomas.
Resolution adopted 16 for and 2 against.

9. LANDFILL RESOLUTION/SOLID WASTE BOARD:

MOTION by Commissioner Bill M. Brooks, seconded by Commissioner Coolidge Whitaker, that the following resolution be adopted.

Upon the call, the motion carried, resolution adopted.

RESOLUTION

BE IT RESOLVED by this Claiborne County Commission meeting in regular session on this the 14th day of December 1992, and in keeping with the appointments by the Mayors of Tazewell, New Tazewell and Cumberland Gap, and the recommendations by the Clinch-Powell Resource Conservation and Development District, that the following are hereby approved for membership on the Municipal Solid Waste Region Board.

Dorothy Lewis - Tazewell	George Harbison - Tazewell
Douglas Overton-Tazewell	Jo Ann Russell - Speedwell
Robert Owens - Speedwell	Clyde Breeding - Tazewell
Gary Venable - Tazewell	

This Resolution to become effective upon its adoption, the Welfare of the County requiring it.

This the 14th day of December 1992.

ATTEST: s/Evelyn M. Hill, County Clerk S/Bill D. Hurst, Co. Executive

10. SALARY INCREASES:

County Attorney Estep presented the item of salary increases for those employees of the Assessor of Property, County Executive Office and the Secretary in the Sheriff Dept. who did not receive a base pay increase in July when other county employees did. The increase would amount to approximately \$4,500.00 yearly and there were available monies in the

TOWN OF TAZEWELL
BOARD MEETS 2ND TUESDAY OF MONTH AT 7:30 P.M.
P.O. BOX 206.. 1830 MAIN ST.
TAZEWELL, TENNESSEE 37879-0206
TELEPHONE - (615) 626-5104
FAX - (615) 626-0075

December 8, 1993

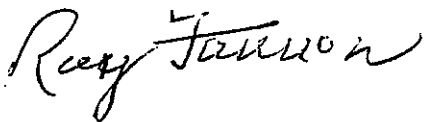
**Douglas Overton
Tazewell, TN 37879**

**Re: Appointment to Claiborne County
Solid Waste Region Board**

Dear Mr. Overton,

**This letter is written as confirmation of your appointment to represent
the Town of Tazewell, Tennessee on the Claiborne County Solid Waste
Region Board.**

**Sincerely,
Town of Tazewell**

A handwritten signature in cursive script that reads "Ray Fannon".

**Ray Fannon
Mayor**



TOWN OF CUMBERLAND GAP

FAMOUS CAMPSITE ON THE PATHWAY OF THE PIONEERS
INSIDE CUMBERLAND GAP NATIONAL HISTORICAL PARK

BOX 78
CUMBERLAND GAP, TN 37724

December 10, 1993

Mr. Bob Owens
Cumberland Gap,
Tennessee 37724

Re: Appointment to Claiborne County
Solid Waste Region Board

Dear Mr. Owens:

This letter is to confirm your appointment to represent the
Towne of Cumberland Gap, Tennessee, on the Claiborne County
Solid Waste Region Board.

Sincerely,

J. D. Estep, Sr.,
Mayor

jb

BILL D. HURST
CLAIBORNE COUNTY EXECUTIVE
Drawer K
Tazewell, Tennessee 37879

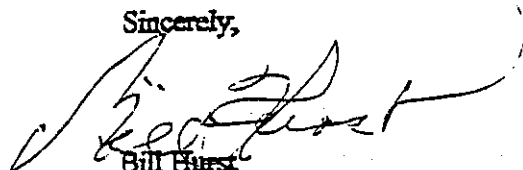
TO: George Harbison, Chairman
Claiborne County Solid Waste Planning Board

DATE: June 15, 1994

SUBJECT: COMPLIANCE WITH FINANCIAL ACCOUNTING REQUIREMENTS OF T.C.A.
68-31-874(A)

This letter assures that the Claiborne County Solid Waste Planning Region is complying with the Solid Waste Management Act of 1991 and certifies that the county has complied with applicable financial accounting requirements.

Sincerely,



Bill Hurst
County Executive

TOWN OF TAZEWELL
BOARD MEETS 2ND TUESDAY OF MONTH AT 7:30 P.M.
P.O. BOX 206.. 1830 MAIN ST.
TAZEWELL. TENNESSEE 37879-0206
TELEPHONE - (615) 626-5104
FAX - (615) 626-0075

To: George Harbison, Chairman
Claiborne County Solid Waste Board

Date: June 14, 1994

Subject: Financial Requirements of T.C.A. 68-31-874 (a)

The City has complied with the financial accounting requirements of T.C.A. 68-31-874(a) and I hereby certify that the City has established a special revenue fund for solid waste. The name of the special revenue fund is "Sanitation Fund".

Sincerely,
Town of Tazewell



Ray Fannon
Mayor

TOWN OF NEW TAZEWELL

City Hall Building

413 FIRST AVENUE • P.O. BOX 609
NEW TAZEWELL, TN 37825 • PHONE (615) 626-5242

Charles "Bud" Chadwell, Mayor
Hershel Beeler, City Recorder

June 14, 1994

Mr. George Harbison
Chairman
Claiborne County Solid Waste Board
Tazewell, Tn. 37879

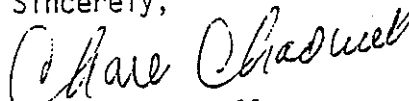
Subject: Financial Requirements of T.C.A. 68-31-874(a)

Dear Mr. Harbison:

The City has complied with the financial accounting requirements of T.C.A. 68-31-874(a) and I hereby certify that the city has established a special revenue fund for solid waste. The name of the special revenue fund is Town of New Tazewell, Solid Waste Department.

Should you need further information, please let me know.

Sincerely,



Charles Chadwell,
Mayor



TOWN OF CUMBERLAND GAP

FAMOUS CAMPSITE ON THE PATHWAY OF THE PIONEERS
INSIDE CUMBERLAND GAP NATIONAL HISTORICAL PARK

BOX 78.
CUMBERLAND GAP, TN 37724

June 14, 1994

George Harbison, Chairman
Claiborne County Solid Waste Board
Tazewell, Tennessee 37879

Re: Financial Requirements of T.C.A. 68-31-874(a)

Dear Mr. Harbison:

The Towne of Cumberland Gap has complied with the financial accounting requirements of T.C.A. 68-31-874(a) and I hereby certify that the Towne has established a special revenue fund for solid waste. The name of the special revenue fund is "Solid Waste".

Sincerely,

J. D. Estep, Sr.,
Mayor

jb

RESOLUTION NO. _____

WHEREAS, the Claiborne County Commission recognizes that it is necessary and desirable to meet the future needs for solid waste management in accordance with the public health requirements; and

WHEREAS, the adoption of the Subtitle D landfill regulations by the United States Environmental Protection Agency and companion regulations adopted by the Tennessee Solid Waste Control Board will impact on both the cost and method of disposal of municipal solid waste; and

WHEREAS, the Board of County Commissioners of Claiborne County, acting pursuant to T.C.A. Section 68-211-801 et seq., established a Municipal Solid Waste Region to better plan for solid waste in order to help control the additional costs that will be imposed by the new landfill regulations, help protect the environment, provide an improved solid waste management system, better utilize our natural resources, and promote the education of the citizens of Tennessee in the areas of solid waste management including the need for and desirability of reduction and minimization of solid waste, local governments in Tennessee supported and worked for the passage of this Act; and

WHEREAS, that pursuant to T.C.A. Section 68-211-813(b)(1), Claiborne County Solid Waste Regional Board was established to prepare the solid waste plan to reflect the most cost effective and efficient management of solid waste to be in the best interest of the citizens of Claiborne County; and

WHEREAS, that pursuant to T.C.A. Section 68-211-815(b)(13), the Claiborne County Regional Solid Waste Plan is to be implemented by the Region; and

WHEREAS, that pursuant to T.C.A. Section 5-19-101, etc. and T.C.A. Section 12-9-101, etc., the Board of County Commissioners of Claiborne County granted powers to the Claiborne County Sanitation Board; and

WHEREAS, the Claiborne County Sanitation Board is empowered to operate the solid waste disposal system in Claiborne County, and the Claiborne County Solid Waste Planning Board is empowered to administer the solid waste activities in Claiborne County; and

WHEREAS, that pursuant to T.C.A. Section 68-211-901 et seq., a solid waste authority may be established to manage the solid waste system in Claiborne County.

NOW, THEREFORE BE IT RESOLVED, acting pursuant to T.C.A. Section 68-211-801 et seq., that the Claiborne County Regional Solid Waste Plan is approved and adopted by the Board of County Commissioners of Claiborne County, Tennessee; and

BE IT FURTHER RESOLVED, by the Board of County Commissioners of Claiborne County, that pursuant to T.C.A. Section 68-211-903(a), a Solid Waste Authority (hereinafter "Authority") shall be established to have all powers and duties granted to it by T.C.A. Section 68-211-901 et seq. It shall be empowered with the duties of the Claiborne County Solid Waste Planning Board which includes plan revisions annually and significant updates every five (5) years after 1994, and annual progress reports on the implementation of the plan, as required by T.C.A. Section 68-211-814(2) and T.C.A. Section 68-211-814(3) respectively; and

BE IT FURTHER RESOLVED, that pursuant to T.C.A. Section 68-211-904(a) a Board of Directors shall be established to administer the activities of the Authority as follows:

1. That the Board of Directors shall be composed of five (5) members whose recommended composition shall be, two (2) County Commissioners, and three (3) citizens-at-large.

2. That pursuant to T.C.A. Section 68-211-904(a), five (5) Board members shall be appointed by the County Executive and approved by this Board of County Commissioners.
3. That members of the Board of Directors shall serve a six (6) year term except that initially two (2) members appointed by the County Executive, and approved by the Board of County Commissioners, shall have a two (2) year term, that two (2) members appointed by the County Executive, and approved by the Board of County Commissioners, shall have a four (4) year term, and that one (1) member appointed by the County Executive, and approved by the Board of County Commissioners, shall have a six (6) year term. After the first term, all terms for members of the Board of Directors shall be for six (6) years.
4. That the Claiborne County Sanitation Board shall be dissolved, and all duties and powers relinquished to the Authority, which shall be named, the Claiborne County Solid Waste Authority upon the first organizational meeting of the Board of Directors of the Authority.
5. The Authority shall have general supervision and control of the acquisition, improvement, operation and maintenance of the solid waste management system in Claiborne County, which includes disposal, collection from convenience centers, waste reduction and education, excepting collection services in the territories within the municipalities which are providing household garbage collection. It shall also have general supervision and control of the employment of all necessary personnel, including management, supervisory, clerical and other personnel necessary and incident to the complete administration of the system.
6. The Authority may employ and appoint a solid waste director who will be a person qualified by training and experience for supervision over the maintenance and operation of the solid waste management, as defined in the plan, and directed by the Authority. The Authority will set job requirements and description, performance criteria and set salary. The solid waste director will serve at the pleasure of the Authority and will be subject to removal by the Authority at any given time.
7. The Authority is empowered to use and control Claiborne County's presently owned sanitary landfill, including equipment and material for use in the operation of the solid waste management system herein provided for, provided, however legal title to this property shall remain with Claiborne County.
8. In the performance of its functions, the Authority shall only utilize the officers, agents, employees, services, property, facilities, records, equipment, rights and powers of Claiborne County as may be agreed upon.

BE IT FURTHER RESOLVED, that the Claiborne County Solid Waste Authority shall submit a budget for approval by the Board of County Commissioners in Claiborne County, and that appropriations presently designated to the Claiborne County Sanitation Board shall be transferred to the Claiborne County Solid Waste Authority upon the first organizational meeting of the Board of Directors of the Claiborne County Solid Waste Authority; and,

BE IT FURTHER RESOLVED, that pursuant to T.C.A. Section 68-211-924, the Board of County Commissioners in Claiborne County can dissolve the Authority by resolution of the Board of County Commissioners of Claiborne County; and,

BE IT FURTHER RESOLVED, that upon passage of this Resolution, the County Clerk of Claiborne County shall transmit a copy of this Resolution to the Department of Environment and Conservation, Division of Solid Waste Assistance, and the Secretary of State of Tennessee.

RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF CLAIBORNE COUNTY, TENNESSEE, this 16th day of May 1994, the welfare of the citizens of Claiborne County requiring it.

Sponsor

Clude Breeding
County Commissioner

Attest:

Evelyn M. Hill
County Clerk

Approved:

Bill D. Furst
County Executive

Approved as to form:

James J. Estep, III
County Attorney

CERTIFICATE

I, Evelyn M. Hill, County Clerk, do hereby certify that the foregoing is a true and accurate copy as appears in my office, in Book Page 4

This 13 day of June, 1994

Evelyn M. Hill

APPENDIX B

DOCUMENTATION FOR ADJUSTMENTS TO THE BASE YEAR GENERATION



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-0435

J. W. LUNA
COMMISSIONER

NED McWHERTER
GOVERNOR

June 22, 1994

George Harbison, Chairman
Claiborne County Solid Waste
Regional Planning Board
P. O. Drawer K
Tazewell, TN 37879

Dear Mr. Harbison:

We have received your request for an adjustment to Claiborne County's solid waste base year data. Based on the information provided, Claiborne County's request for an adjustment to its base year data is approved to reflect an annual per capita disposal rate of 0.77 tons.

If we can be of further assistance on this or any other matter, please do not hesitate to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Paul Evan Davis".

Paul Evan Davis
Director
Division of Solid Waste Assistance

PED:GHD:dhm

cc: Mitch Loomis, ETDD

APPENDIX C

PUBLIC PARTICIPATION ACTIVITIES

1. A number of presentations to civic groups were made during the formulation of this plan. A county commissioners workshop was held to present plan and request feedback.

2. Attendance at Public Hearing

Brownlow Sweet
Haskell Wells
Mitchell Cosby
Dennis Graves
Elizabeth Fugate
Mike Campbell
Bill Brooks
Ken Black
Mike Jones
Jerry Brooks
Troy Poore
Ron Morgan
Nikki Lockhart
Ray Knuckles
Clyde Breeding
Bill Hurst
Chris Garkovich
Lindy Turner
George Harbison
Joanne Webb
Dot Lewis

APPENDIX E

REVIEW BY APPROPRIATE MUNICIPAL OR REGIONAL PLANNING COMMISSION

TO: Claiborne County Planning Commission

FROM: George Harbison, Chairman
Claiborne County Solid Waste Planning Board

DATE: June 17, 1994

**SUBJECT: REVIEW OF CLAIBORNE COUNTY TEN YEAR SOLID WASTE
PLAN**

Enclosed is a copy of the Claiborne County Ten Year Solid Waste Plan for your review, comment and possible adoption. Your review is necessary to assure that the plan has complied with T.C.A. 13-3-105 and/or 13-4-104.

After your review please supply me with a copy of the minutes of your meeting for submission to the Tennessee Department of Environment and Conservation.