

COUNTY
PUTNAM COUNTY
SOLID WASTE MANAGEMENT PLAN

Prepared For:

Putnam County
Tennessee

By:

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PART I

EXECUTIVE SUMMARY

As a result of the Tennessee's Solid Waste Management Act of 1991, which requires that each county/region develop a ten-year solid waste management plan, the Putnam County Region, consisting of Putnam County and its municipalities, was formed. The County elected to become a single-county region in order to protect the interests of its citizens.

SYSTEM ELEMENTS

The system elements included in the plan are as follows: System Analysis and Growth Trends; Reduction, Recycling and Composting; Collection, Transportation and Disposal; Problem Wastes; Scheduling, Staffing and Funding; Responsibilities; Public Information and Education.

REGIONAL GOALS AND OBJECTIVES

As a region, Putnam County's primary goal and objective is to see that each system element is reviewed closely. Decisions concerning solid waste management will be made with careful examination of each element.

REGIONAL NEEDS

Regional needs include improved efforts in the areas of collection, recycling/reduction, and education.

EXISTING SYSTEM AND PROPOSED MODIFICATIONS

Based on landfill scale records it is estimated that in 1993, Putnam County generated 56,845 tons of Class I waste (not including Class III/IV material). The Upper Cumberland Development District estimated that a total of 61,144 tons of all types of waste were generated within the Region. All of the waste disposed in the Region was done so in a Class I landfill located within the County. It is estimated that this disposal facility will close in February 1996. However, the County is in the process of permitting an additional 1,150,000 cubic yards (575,000 tons) of Class I disposal area and 165,000 cubic yards (82,500 tons) of Class III/IV disposal area. These facilities are scheduled to open in February 1996 and October 1995, respectively.

The waste collection system within the region consists of door-to-door pick up and convenience center collection. Currently, Algood, Baxter, Cookeville and Monterey provide door-to-door collection, while the remainder of the County is served by six convenience centers and five green box sites.

PROGRAM IMPLEMENTATION AND COORDINATION

Although the region is provided with an adequate number of convenience centers which are in compliance with the new standards set forth by the State of Tennessee, the equipment at the centers is in need of improvement.

The six centers will be equipped with one 40-yard roll-off for Class III/IV waste; a compactor; two 42-yard packer receivers; two 35-yard compartmented roll-offs; and, two automotive fluid tanks.

RECYCLING/REDUCTION

Recycling along with reduction and a reuse will help the Region attain the 25 percent reduction goal. A centralized recycling center will continue to operate. However, services will be expanded over the next ten years.

EDUCATION

Recognizing accurate information as the cornerstone to successful implementation, this plan emphasizes education. The new Putnam County Solid Waste Director will be required to utilize significant resources designed to educate the region. The Director will be able to draw on the consulting resources of the Regional Solid Waste Board as well as several agencies within the State (*i.e.*, Upper Cumberland Development District, UT-CTAS, UT-CIS). A commitment to education is necessary for the new programs to work. The regional education programs will target a variety of audiences. Through education of local officials, interest groups, and the general public, as well as the coordination with existing solid waste education groups, it is anticipated that regional goals will be met.

STAFFING AND TRAINING

Components of the Plan require a variety of staffing and training decisions. The greatest change will be the addition of a Solid Waste Director for the County.

BUDGET AND FINANCE

Conceptually, a blend of revenue sources designed to produce an equitable allocation of costs are required for plan funding. Grant and revenue sharing opportunities offered by state and federal agencies may be utilized in order to comply with regulations mandated by those jurisdictions. Supplemental funding shall include, but not be limited to user fees.

SYSTEM BUDGET

ITEM	CAPITAL COST	ANNUAL COST*
Waste Collection and Transportation	\$332,000	\$337,000
Recycling	\$50,000	\$205,000
Disposal Facilities	\$4,175,000	\$690,000
Public Information and Education Programs	\$10,000	\$71,000
Problem Wastes	—	\$1,300
TOTAL	\$4,907,000	1,164,300

* Annual costs are expressed in 1994 dollars. It is anticipated that the cost will increase at an annual rate of 5%.

SYSTEM SCHEDULE

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
WASTE COLLECTION AND TRANSPORTATION										
Equipment Purchase										
Staff Training										
Establish Disposal Fee										
Collection of Data										
Annual Reports										
RECYCLING										
Staff										
Recycling Center Construction/Improvements										
Equipment Purchase/Maintenance										
Training										
Advertisement										
DISPOSAL										
Close Existing Landfill										
Permit/Open Class I										
Permit/Open Class III/IV										
EDUCATION AND PROBLEM WASTES										
Staff										
Meet with Local Interest Groups										
Develop Brochures/Teaching Aids										
Develop/Schedule Training Programs										
Household Hazardous Waste Collection Day										

PART II

CHAPTER I

DESCRIPTION OF THE MUNICIPAL SOLID WASTE REGION

A. GENERAL DESCRIPTION

Putnam County has elected to become a single-county region for the purpose of developing its Solid Waste Regional Plan. There are three municipalities within the county which account for nearly 54 percent of the population based on the 1990 census. These municipalities include Algood, Baxter, Cookeville, and Monterey which had populations of 2,399, 1,289, 21,744, and 2,599, respectively in 1990.

Putnam County occupies 401.0 square miles (mi²) of land in the Cumberland Plateau Physiographic Province of East-Central Tennessee (See Figure I-1 and Figure I-2). This Province, which is bound to the east by the Cumberland Plateau and the west by the Central Basin, is relatively flat to gently rolling. This Province is also marked by a much dissected escarpment that rises from the rolling lowland area of the Central Basin.

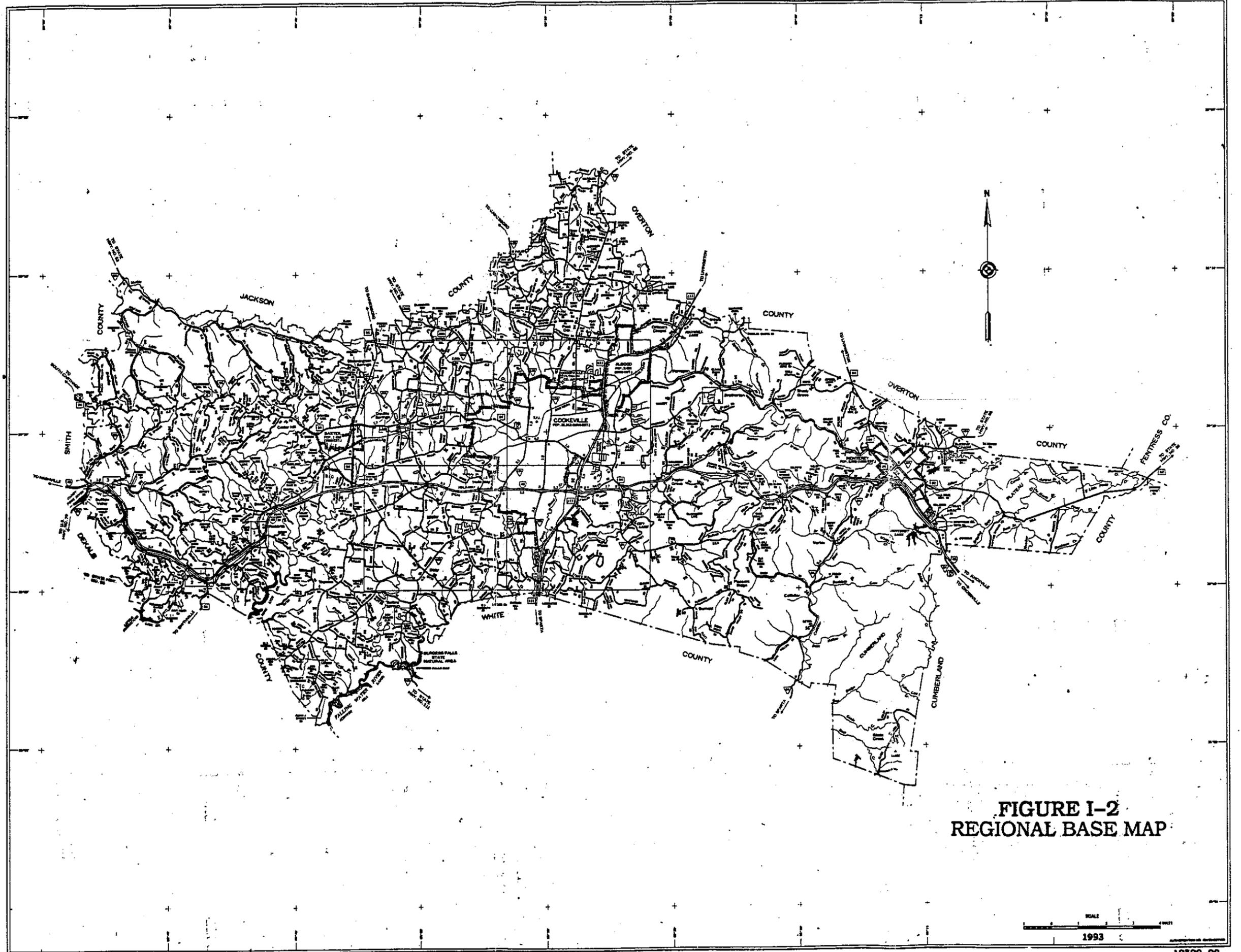
The County also has several lakes available for recreational use (*e.g.*, Center Hill Lake, Monterey Lake). The county is also home to the Burgess Falls State Natural Area. The primary land uses of the region include residential, industrial, managed park land, and farmland.

B. RATIONALE FOR REGIONAL FORMATION

Putnam County elected to become a single-county region in order to protect the interests of its citizens. Putnam County is able to provide viable solid waste disposal alternatives without imposing a high tax burden on its residents and businesses.

C. INSTITUTIONAL STRUCTURE

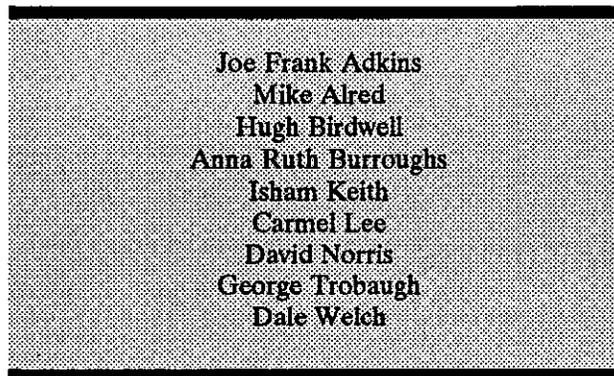
There are nine members of the regional Solid Waste Management Board. These members include: Joe Frank Adkins, Mike Alred, Hugh Birdwell, Anna Ruth Burroughs, Isham Keith, Carmel Lee, David Norris, George Trobaugh and Dale Welch (See Figure I-3).



**FIGURE I-2
REGIONAL BASE MAP**

SCALE
1993

Figure I-3
Solid Waste Management Board Organizational Chart



Coordination with local governments was simplified because the region encompasses only one county. Representatives of local municipal governments and the county compose the Solid Waste Regional Board. Hopefully, with such active participation of municipal and county governments the implementation phase of this plan will be easier.

D. DEMOGRAPHICS

The 1993 population of Putnam County is 52,707, based on U.S. Census Bureau projections. The resulting population density is 131.4, which is a 2.6 percent increase over the density reported in the September 1991 District Needs Assessment for the Upper Cumberland Development District. The data given in Tables I-1 through I-6 is based on information found in the District Needs Assessment and reported by the U.S. Census Bureau in 1990.

The total population of Putnam County increased 7.7 percent during the period from 1980 to 1990, and is anticipated to grow at an average annual rate of 0.86 percent over the next ten years (See Table I-6). The tremendous growth is a result of the County's role as the economic center for the surrounding counties.

It is anticipated that the quantity of solid waste generated and disposed of in the region will grow at a proportional rate.

Table I-1
Population and Density, 1990

County	Area (mi ²)	Population	Avg. Density Population/mi ²
Putnam	401.0	51,373	128.1
Regional Total	401.0	51,373	128.1

Table I-2
Distribution of the Total Regional Population by Urban and Rural Areas, 1990

County	Urban		Rural	
	Population	%	Population	%
Putnam	24,303	47.3	27,070	52.7
Regional Total	24,303	47.3	27,070	52.7

Table I-3
Distribution of the Total Regional Population by Sex and Age, 1990

Age	Total	Male	%	Female	%
0-4	3,060	1,560	50.98	1,500	49.02
5-17	8,185	4,251	51.94	3,934	48.06
18-44	23,567	12,023	51.02	11,544	48.98
45-64	9,898	4,737	47.86	5,161	52.14
65+	6,663	2,626	39.41	4,037	60.59
Regional Total	51,373	25,197	49.05	26,176	50.95

Table I-4
Distribution of Regional Population by Education (Age ≥ 25), 1990

	Number	%
Less than 8th Grade	6,860	21.80
Grade 8	N/A	N/A
High School (1-4)	14,104	44.82
College (1-4)	8,205	26.07
Post Graduate/Professional (>4)	2,301	7.31
Regional Total	31,470	100.00

Table I-5
Distribution by Type of Housing and Occupancy (51,373 housing units)

	Total Units	Occupied	Owner	Rented
Single Family				
1, Detached	35,236	35,236	29,284	5,952
1, Attached	589	589	197	392
Multi-Family				
2	1,163	1,163	134	1,029
3-4	1,575	1,575	48	1,527
5-9	2,314	2,315	62	2,525
10-19	1,310	1,310	0	1,310
20-49	267	267	0	267
50 or more	0	0	0	0

Table I-5
Distribution by Type of Housing and Occupancy (51,373 housing units)

	Total Units	Occupied	Owner	Rented
Institutional	2,954	N/A	N/A	N/A
Mobile Home/Trailer	5,622	5,622	3,872	1,750
Other	343	343	183	160
Regional Total	51,373	48,419	33,780	14,639

Table I-6
Regional Population Projections, 1994-2003
(1993 Population: 52,707)

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Putnam	53,157	53,612	54,070	54,533	54,999	55,469	56,939	56,400	56,860	57,324
Regional Total	53,157	53,612	54,070	54,533	54,999	55,469	56,939	56,400	56,860	57,324

E. ECONOMIC ACTIVITY

Apart from the increase in economic activity due to the steady increase in population, there are no foreseeable changes which are expected to drastically alter waste generation rates and quantities over the next ten years. It is anticipated that the economic growth rate of 3.2 percent, as published by UT Center for Business and Economic Research will be maintained. Tables I-7 through I-14 outline the current economic status of the region.

Table I-7
Basic Economic Information for the Region in 1991

County	Population	MSA County (yes/no)	Total Employment	Total Earnings	Per Capita Income	% Population Below the Poverty Line
Putnam	51,373	No	33,606	\$580,923	\$14,550	16.6
Regional Total	51,373	No	33,606	\$580,923	\$14,550	16.6

Table I-8
Percent of Total Employment (1990 Non-Agricultural Employment = 32,238)

County	Manufacturing	Construction	Trade	Finance	Service	Govt.	Transportation Pub. Utilities
Putnam	9,568	1,598	6,241	1,184	5,429	6,535	1,464
Regional Total	9,568	1,598	6,241	1,184	5,429	6,535	1,464
<i>Percent</i>	<i>29.9</i>	<i>5.0</i>	<i>19.5</i>	<i>3.7</i>	<i>17.0</i>	<i>20.4</i>	<i>4.6</i>

Table I-9
Agricultural Employment, 1990

County	Employment
Putnam	1,445
Regional Total	1,445

Table I-10
Major Generators of Commercial and Non-Hazardous Waste in 1991

County	Screening Criteria Applied	Number of Generators	Estimated Total Quantity of Waste
Putnam	N/A	N/A	N/A
Regional Total	N/A	N/A	N/A

Table I-11
Summary of Institutions Housing More Than 100 Persons

County	Total Number of Institutions	Total Number of Students Prisoners/Residents	Estimated Quantity of Waste Generated (cy/mth)
Putnam	1	2,519	363
Regional Total	1	2,519	363

Table I-12
Summary of Major Health Care Facilities in the Region

County	No. of Facilities	No. of Beds	Infectious Waste Management		Est. Quantity of Solid Waste Generated
			Onsite/Offsite	Type Treatment	
Putnam	4	507	N/A	N/A	N/A
Regional Total	4	507	N/A	N/A	N/A

Table I-13
Sources of Local Revenue in the Region

County	Property Tax	Local Sales Tax	Wheel Tax	Local Waste Collection Fee	User Fee/ Tipping Fee	Other
Putnam	X	X	N/A	N/A	X	N/A
Regional Total	X	X	N/A	N/A	X	N/A

Table I-14
Revenue Data for Fiscal Year 1993

County	Total Assessed Property Value	Total Property Tax Revenue	Total Sales Subject to Sales Tax	Total Local Sales Tax Revenue	# Registered Vehicles	Total Wheel Tax Revenue
Putnam	\$415,441,004	\$6,452,000	\$467,050,735	\$9,063,800	29,368	0
Regional Total	\$415,441,004	\$6,452,000	\$467,050,735	\$9,063,800	29,368	0

CHAPTER II
ANALYSIS OF THE CURRENT SOLID WASTE MANAGEMENT
SYSTEM FOR THE REGION

A. WASTE STREAM CHARACTERIZATION

The Putnam County landfill receives waste from industries/companies and residents from within the County. Tables II-1 through II-5 outline the characteristics of the annual waste stream.

Since no formal study of the volume and nature of the solid waste landfilled in the region has been performed and the landfill scales have only been in operation since July 1993, national projections as presented in the 1992 Update of the EPA Characterization of Municipal Solid Waste in the United States and the 1991 District Needs Assessment waste characterization which was based on the 1990 version of the same report were used.

Table II-1
Quantity of Solid Waste Received for Disposal/Incineration in Calendar 1991

County	Tons Disposed	Population (1991)	Waste Disposed Per Capita (tons)
Putnam	60,461	51,817	1.17
Regional Total	60,461	51,817	1.17

Table II-2
Origin of Regional Solid Waste in 1991 (tpy)

County	Residential	Institutional/ Commercial	Non-Hazardous Industrial	Special	Other
Putnam	18,138	24,185	18,138	0	0
Regional Total	18,138	24,185	18,138	0	0

Table II-3
Categories of Solid Waste in the Region (tpy)

County/Facility	Yard Waste		Sewage Sludge		Construction Demolition		Tires		White Goods	
	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty
Putnam	Y	445	N	0	Y	445	Y	10	Y	445
Regional Total	Y	445	N	0	Y	445	Y	10	Y	445

Table II-4
Description of Waste Stream by Materials

<u>Waste Category</u>	<u>National (%)</u>	<u>Calculated Regional Tons</u>
Paper & paperboard	32.3	19,529
Glass	6.5	3,930
Ferrous Metals	6.4	3,870
Aluminum	1.0	605
Plastics	9.8	5,925
Rubber & Leather	2.7	1,632
Textiles	3.3	1,995
Wood	7.3	4,414
Food Waste	8.2	4,958
Yard Waste	19.0	11,488
Other	<u>3.5</u>	<u>2,116</u>
TOTAL MUNICIPAL SOLID WASTE	100.0	60,461

**Table II-5
Unmanaged Waste in Putnam County (tpy)**

County	Potential Waste Generation 1991 (tpy)	Actual Waste Disposed 1991 (tpy)	Unmanaged Waste* 1991 (potential/actual) (tpy)	Percent of Potential Total
Putnam	56,253	60,461	-4,208	-7.0
Regional Total	56,253	60,461	-4,208	-7.0

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

B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS

Putnam County and four municipalities/communities (Algood, Baxter, Cookeville, and Monterey) within the County provide waste collection service for residents, industries, and institutions of the region.

Within the County, 7,042 households are serviced solely by convenience centers or green boxes, 11,038 receive house-to-house pick-up, and 1,743 have direct commercial/contracted service. Figure II-3 shows the waste collection service available throughout the region.

The State requires that at least 90 percent of the County must be within the service area of collectors; otherwise, the County must provide at a minimum a convenience center for the collection of solid waste. With the six convenience centers and five green box sites available for County residents and door-to-door pick-up available for four municipalities, waste collection and transportation service in the region is more than adequate. In addition, the convenience centers are designed to the state standards established in Rule 1200-1-7-.10.

C. SOURCE REDUCTION AND RECYCLING SYSTEMS

Source reduction and recycling education continue to be a major concern for the Region. Recycling services within the region are provided by both public and private agencies.

Wal-Mart and Fleetguard are just two of the corporations within the Region which are proactive

with regard to source reduction and recycling. Currently, both companies recycle cardboard. In addition, Fleetguard recycles paper.

The regional Recycling Center which is funded by the County, but operated by the City of Cookeville offers residents of the Region a place to recycle glass, aluminum, tin, plastic, paper, cardboard, and waste oil.

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

1. Waste Processing Facility

There are no waste processing facilities located within Putnam County. Therefore this section is not applicable.

2. Composting

There are no composting facilities located within Putnam County (See Table II-6). However, it is anticipated that as part of Regions's commitment to the reduction of solid waste landfilling, a composting program may be implemented in the future.

**Table II-6
Operating and Planned Composting Facilities in the Region**

County	Facility Location	Waste Processed (tpy)	Composted Materials		
			Yard Waste	Sewage Sludge	Solid Waste
Existing					
---	---	---	---	---	---
Planned					
---	---	---	---	---	---
Regional Total		---	---	---	---

3. Waste-to-Energy/Incineration

There is one waste-to-energy (WTE)/incineration facility located in Putnam County. This facility is used to disinfect, process, or burn infectious waste. The permitted capacity of the incinerator is 2,471 pounds per day (451 tpy). Construction of a WTE/incineration facility as a disposal alternative for municipal solid waste is not proposed due to opposition of area citizens to this concept. This opposition was strongly expressed during the report development process.

**Table II-7
Solid Waste Incinerators or Waste-to-Energy Facilities**

County	Facility Location	Design Capacity (tpy)	Current Use (tpy)	Anticipated Operating Life of Facility
Operating Facilities				
Putnam	Cookeville General Hospital	451	87	Unknown
Planned Facilities				
—	—	—	—	—

E. DISPOSAL FACILITIES - LANDFILLS AND BALEFILLS

Putnam County currently operates a 66-acre landfill on the west side of Cookeville Boatdock Road in the southwestern part of the County. The site is two miles south of Nash Chapel and adjacent to the DeKalb County line. In February 1996, 27.4 acres of this facility are scheduled for closure.

The County, in an effort to maintain compliance with both state and federal regulations, has elected to re-design and re-permit the remaining 38.6 acres of the landfill (Fill Area 2) as a "subtitle D" facility. In addition, the County has also sited and is in the process of permitting a Class III/IV facility.

The capacity of the Class I facility is 1,110,854 cubic yards (555,427 tons). If the 25% reduction requirement is met, the site will close in December 2008. The Class III/IV disposal facility has a capacity of 184,010 cubic yards (92,005 tons) and is expected to close in December 2007.

Tables II-8 through II-11 summarized the status of the landfills in Putnam County.

**Table II-8
Existing Solid Waste Landfills in the Region**

County	Name of Landfill	Location	Permitted Capacity (acres)	Current Rate of Waste Accepted (tpd)	Remaining Capacity (tons)
Putnam	Putnam County Landfill Fill Area 1	Cookeville Boatdock Road	27.4	156	120,000
Putnam	Putnam County Landfill Fill Area 2	Cookeville Boatdock Road	38.6	0	N/A
Regional Total	Putnam County Landfill	Cookeville Boatdock Road	66.0	156	120,000

**Table II-9
Existing Landfills Expected to Close Before 2003**

County	Location	Current Use (tpd)	Current Annual Use (tpy)	Anticipated Date of Closure
Putnam	Putnam County Landfill Fill Area 1	156	56,940	February 1996
Regional Total	Putnam County Landfill	156	56,940	February 1996

Table II-10

Planned Expansions and Planned New Facilities Which Will Operate for Ten Years or More

County	Proposed Facility		Location	When Will Capacity be Available	Permitted Capacity Sought (acre)	Design Rate of Waste Disposed (tpd)	Potential Expansion (Yes/No)
	Expan	New					
Putnam		1	Cookeville Boatdock Road	March 1995	38.6	200	No
Planned New Regional Capacity			Cookeville Boatdock Road	March 1995	38.6	200	No

Table II-11

Existing and Planned Capacity in the Region at the Close of the Next Ten Years (tons)

Fiscal Year	Existing	Planned	Total
1993	182,745	—	182,745
1994	123,078	—	123,078
1995	73,586	—	73,586
1996	23,671	555,427	579,098
1997	—	529,606	529,606
1998	—	479,691	479,691
1999	—	429,349	429,349
2000	—	378,570	378,570
2001	—	275,724	275,724
2002	—	223,638	223,638
2003	—	171,112	171,112

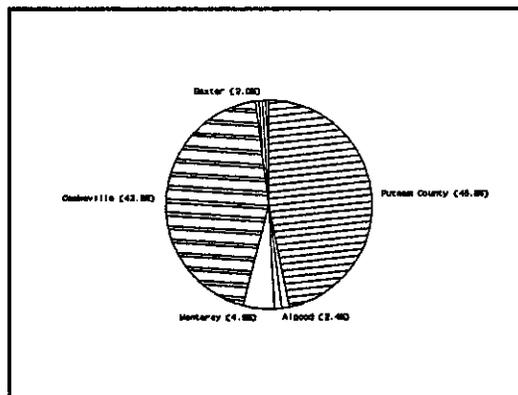
F. COSTS OF THE CURRENT SYSTEM

Putnam County and its municipalities spent \$1,907,107.25 on solid waste programs during Fiscal Year 1994. The detailed financial statements of the County and municipalities expenditures are shown in Table II-12. Figure II-1 illustrates the current system cost.

**Table II-12
Solid Waste Expenditures**

ITEM	PUTNAM COUNTY	ALGOOD	BAXTER	COOKEVILLE	MONTEREY
WASTE COLLECTION					
Wages		\$733.25	\$22,000.00	\$432,180.00	\$38,555.03
Contracted Services	\$65,480.00				
Vehicle Maintenance	\$46,000.00	\$8,385.51	\$2,500.00	\$68,500.00	\$6,000.00
Operating Supplies/Expenses		\$4,800.00	\$1,000.00	\$40,400.00	\$1,500.00
Trustee's Commission	\$20,000.00				
Equipment				\$7,300.00	
Motor Vehicles		\$15.00	\$5,000.00		\$2,700.00
Gasoline	\$20,000.00	\$2,308.49		\$12,000.00	
Other Charges	\$10,150.00	\$17,465.24	\$1,500.00	\$65,000.00	\$29,313.73
Capital Outlay		\$2,910.00			
Training				\$100.00	
LANDFILL AND WASTE DISPOSAL					
Contracted Services	\$328,080.00				
Surcharge	\$60,000.00				
Licenses	\$12,000.00				
Machinery/Equipment	\$18,000.00				
Other Charges	\$6,000.00				
Engineering Services/Construction	\$87,000.00				
Landfill Services	\$1,500.00	\$2,681.00	\$1,000.00	\$6,100.00	\$1,260.00
Utilities	\$5,000.00				
CONVENIENCE CENTERS					
Guards/Attendants	\$7,500.00				
Maintenance	\$95,000.00				
Utilities	\$7,000.00				
Equipment	\$21,250.00				
RECYCLING PROGRAMS					
Wages				\$94,570.00	
Utilities and Supplies				\$22,750.00	
Equipment				\$45,260.00	
Building				\$1,060.00	
General	\$96,000.00				
TOTAL EXPENDITURES	\$957,960.00	\$39,298.49	\$33,000.00	\$797,520.00	\$79,328.76

**Figure II-1
Solid Waste Expenditures (As a Percent of Total)**



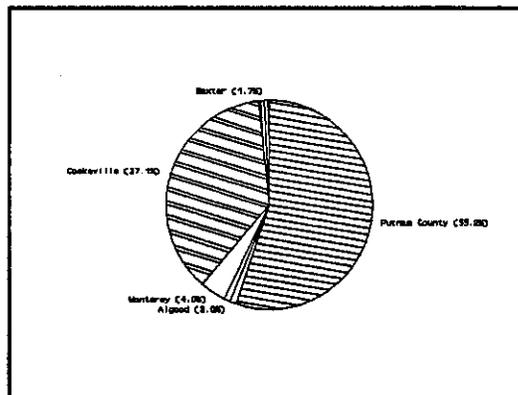
G. REVENUES

Putnam County and its municipalities received \$2,224,322.16 on solid waste programs during Fiscal Year 1994. The detailed financial statements of county and municipalities revenues are shown in Table II-13, while Figure II-2 illustrates the revenues of the current system on a percentage basis.

**Table II-3
Solid Waste Revenues**

ITEM	PUTNAM COUNTY	ALGOOD	BAXTER	COOKEVILLE	MONTEREY
REVENUES					
General Service Charges			\$33,000.00	\$361,390.00	\$79,328.76
Extra Dumpster Services				\$17,500.00	
Sale of Recycled Materials				\$36,000.00	
Local Taxes	\$524,480.00			\$170,000.00	
General Fund Transfer	\$170,280.00	\$39,298.40			
Note Proceeds				\$176,000.00	
Miscellaneous	\$15,000.00			\$6,045.00	
Intragovernmental				\$96,000.00	
Tipping Fees	\$500,000.00				
TOTAL REVENUES	\$1,209,760.00	\$39,298.40	\$33,000.00	\$862,935.00	\$79,328.76

**Figure II-2
Solid Waste Revenues (As a Percent of Total)**



H. PUBLIC INFORMATION AND EDUCATION PROGRAM

Putnam County's public schools provide education on recycling as part of their science curriculum in-service training is also provided for teachers to support the recycling education.

In addition, the Recycling Center provides brochures outlining accepted materials.

I. PROBLEM WASTES

There are several types of problem wastes which Putnam County is required to address. These wastes include tires, automotive fluids, and lead acid batteries. State law requires that every county provide at least one site for the collection of these problem wastes by January 1, 1995, unless adequate collection already exists within the county. In addition, every Class I disposal facility must provide a temporary storage area for tires.

1. Household Hazardous Waste

There are no permanent facilities within the region dedicated to the collection, management or disposal of household hazardous waste. However, the County does sponsor a household hazardous waste collection event.

2. Waste Tires

At the Putnam County Landfill, waste tires are accepted for disposal. These tires are stockpiled in the waste tire storage area until the state-provided tire shredder is available.

The tire shredder, which comes to the county twice each year, is used to cut the rubber products into sizes suitable for disposal.

3. Automotive Fluids

There are two sites within the county which accept waste oil: the Recycling Center in Algood and the Tennessee Department of Transportation facility in Cookeville. However, there are no facilities within the region which provide for the disposal of other automotive fluids.

4. Lead Acid Batteries

Lead acid batteries may be traded-in to some battery retailers or to the Recycling Center.

5. Litter

Putnam County utilizes prisoners to provide roadside pick up of litter in addition to participation in the Adopt-a-Highway program.

J. SYSTEM MAP

The map shown in Figure II-3 illustrates the regional solid waste management system for 1993.

K. STRENGTHS AND WEAKNESSES OF EXISTING SYSTEMS

Putnam County's solid waste management system is not adequate to meet the future needs of the region. To provide an fully integrated system to the County, the region must consider the expansion of source reduction, recycling, and education programs to complement land disposal.

Although the existing solid waste management system provides superior collection service to the region, the existing six convenience centers should be upgraded. The current 8-yd green boxes are both inefficient and ineffective.

In addition, the Class I disposal facility is scheduled for closure in February 1996. A new "subtitle D" landfill, which has yet to be permitted, is scheduled to open at the same time. This facility will have a total estimated lifespan of 13 years if the recycling program is expanded.

A Class III/IV disposal facility is proposed to open in January 1995 which will operate for 12 years. The ability of the facilities to be cost-effective (*i.e.*, to maintain projected lifespans) is contingent upon the region establishing and maintaining an effective recycling system.

The recycling program in the Region is well-operated. However, the recycling volume is limited due to the design and location of the existing building. Moreover, the lack of an organized information/education program hinders regional support.

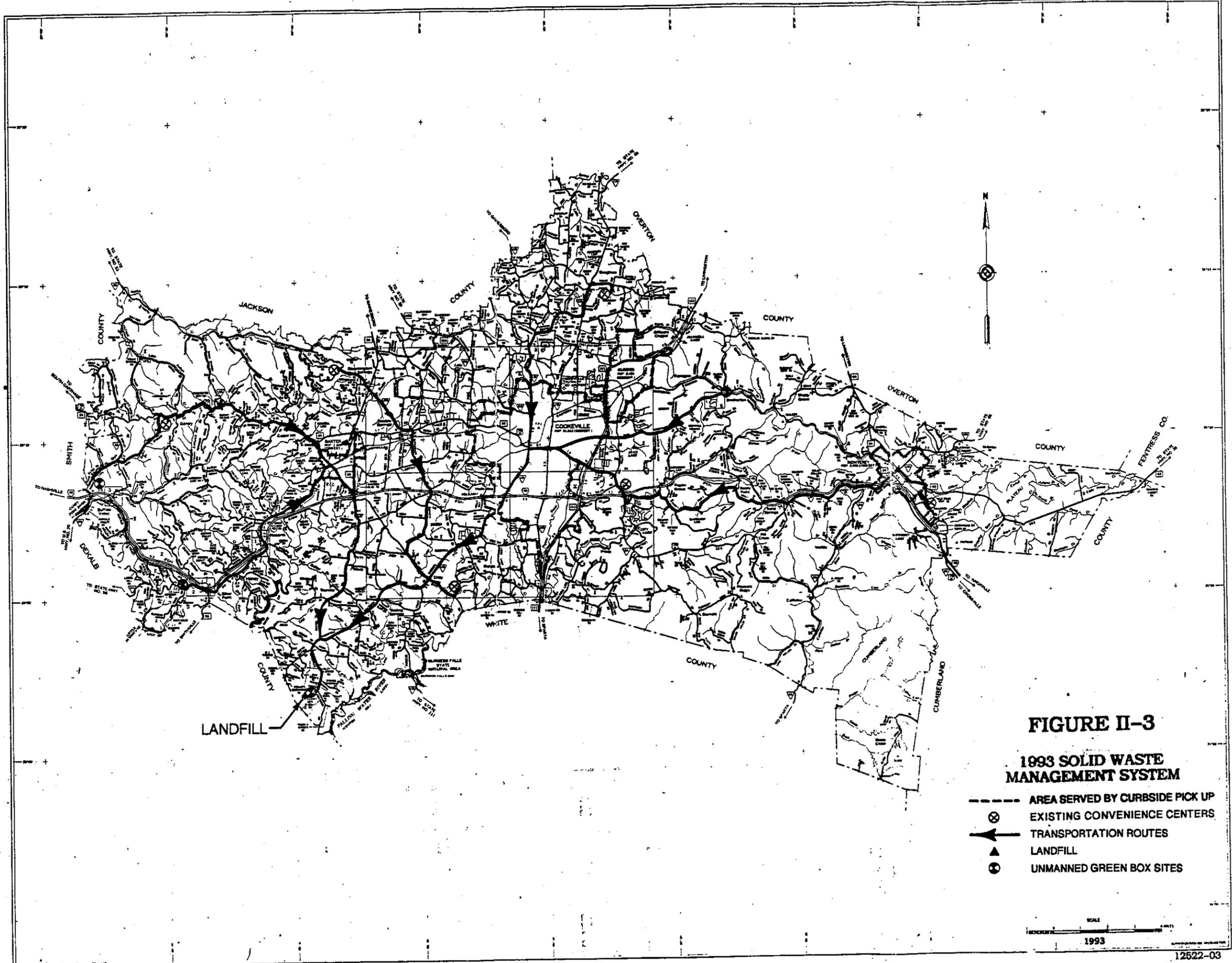


FIGURE II-3

1993 SOLID WASTE MANAGEMENT SYSTEM

- AREA SERVED BY CURBSIDE PICK UP
- ⊗ EXISTING CONVENIENCE CENTERS
- TRANSPORTATION ROUTES
- ▲ LANDFILL
- ⊠ UNMANNED GREEN BOX SITES

SCALE
1993

CHAPTER III
GROWTH TRENDS, WASTE PROJECTIONS,
AND PRELIMINARY SYSTEM STRUCTURE

A. GROWTH PROJECTIONS

Putnam County's population is expected to grow at an average annual rate of 1.8 percent over the next ten years. It is assumed that the increase in solid waste generation will occur at the same rate unless source reduction steps are taken to lower the volume of waste (e.g., industrial and residential recycling of products typically landfilled).

Table III-1
Regional Per Capita Solid Waste Generation (1993)

County	Total Waste Disposed in FY 1993	Projected Population 1993	Annual Per Capita Generation (tons/person/year)
Putnam	61,500	52,707	1.17
Total	61,500	52,707	1.17

The quantities shown in Table III-2 are calculated by multiplying the population by the annual per capita generation rate given in Table III-1.

Table III-2
Quantity of Solid Waste Requiring Disposal (tons)

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Putnam	62,025	62,555	63,090	63,630	64,174	64,722	65,271	65,809	66,345	66,887
Total	62,025	62,555	63,090	63,630	64,174	64,722	65,271	65,809	66,345	66,887

An economic growth rate of 3.2 percent was assumed as published by the UT Center for Business and Economic Research.

Table III-3
Quantity of Solid Waste Requiring Disposal (in tons)
Adjusted for Population and Economic Growth

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Putnam	64,085	64,682	65,284	65,895	66,511	67,134	67,760	68,377	68,996	69,623
Total	64,085	64,682	65,284	65,895	66,511	67,134	67,760	68,377	68,996	69,623

Table III-4
Quantity of Waste Requiring Disposal (in tons) Adjusted for Population Changes,
Economic Growth, and Waste Reduction and Recycling

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Putnam	60,881	54,980	48,963	49,421	49,883	50,351	50,820	51,283	51,747	52,217
Total	60,881	54,980	48,963	49,421	49,883	50,351	50,820	51,283	51,747	52,217

Table III-8
Annual Projections of Solid Waste Requiring Disposal Adjusted
for All Applicable Factors (tpy)

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Putnam	60,881	54,980	48,963	49,421	49,883	50,351	50,820	51,283	51,747	52,217
Total	60,881	54,980	48,963	49,421	49,883	50,351	50,820	51,283	51,747	52,217

B. MULTI-COUNTY REGION PROJECTIONS

This section does not apply.

C. PRELIMINARY SYSTEM DESIGN

Putnam County's solid waste management system offers a variety of collection services to its region. With six convenience centers located throughout the County and door-to-door pick up offered in Algood, Baxter, Cookeville, and Monterey residents of the region are well-served.

The landfill which serves the region is scheduled to close in February 1996. The County plans to open Class I facility at the time of closure of the existing landfill. Class III/IV facility is scheduled to open in October 1995. If recycling is expanded, the lifespans of these facilities are 13 years and 12 years, respectively.

With this capacity, the disposal element of the solid waste management system is adequate. However, there are four elements of the system which are lacking: composting, source reduction/recycling, education, and hazardous waste collection. The region plans to establish programs to meet these needs. The solid waste system that Putnam County proposes consists of the following elements:

- **Waste Collection and Transportation**
 - 6 Convenience centers
 - 5 Green box sites

- **Solid Waste Disposal**
 - 1 Class I facility
 - 1 Class III/IV facility
 - Composting

- **Source Reduction/Recycling**
 - Recycling Center

- **Educational Programs**
 - Technical Assistance
 - General Training

- **Household Hazardous Waste Collection**

The system has been designed such that the Class III/IV disposal facility will accept approximately 55 percent of the required 25 percent reduction goal and 45 percent of the goal will be recycled. No estimate has been made of the percentage of waste diverted from the Class I facility through source reduction nor has the projected percent of waste handled through composting been determined.

**CHAPTER IV
WASTE REDUCTION**

A. ESTABLISHING A BASE YEAR QUANTITY

The University of Tennessee report entitled "Managing Our Waste: Solid Waste Planning in Tennessee," dated February 1990, recorded the population and quantity of solid waste generated and disposed in 1989 for Putnam County (See Table IV-1) as 52,950 people and 50,180 tons.

Based on this 1989 disposal rate, Putnam County is required to attain a 25 percent reduction in solid waste landfilled by 1995. The regional per capita disposal rate of 0.9476 tons per person was calculated using the formula below:

$$\frac{\text{TWD}}{\text{TRP}} = \text{WDR}_{\text{PC}}$$

where TWD = Total waste disposed or incinerated
TRP = Total regional population
WDR_{PC} = Regional annual per capita waste disposal rate

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

By 1995, the State of Tennessee requires that Putnam County reduce its per capita quantity of waste disposed by 25 percent. The 1995 target per capita reduction of 0.237 tpy (474 ppy) was calculated using the formula below:

$$\text{WDR}_{\text{PC}} \times .25 = \text{TR}_{\text{PC}}$$

where WDR_{PC} = Average 1989 per capita rate
TR_{PC} = Target per capita reduction rate

**Table IV-1
Population and Quantities of Waste Disposed of at Municipal Solid Waste
Disposal Facilities and Incineration, in 1989**

County	1989 Population	1989 Total Waste Disposed (tons)
Putnam	52,950	50,180
Regional Total	52,950	50,180

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

The region plans to enhance the existing recycling program within Putnam County. It is anticipated that ten percent of the waste stream can be recycled. The material is recycled currently includes glass, aluminum, tin, newspaper, corrugated cardboard, and waste oil. The County also plans to open a Class III/IV landfill. Disposal of demolition/debris waste in this facility should divert between 10-15 percent of the waste stream from the Class I landfill.

Each municipality/community which provides curbside pickup will be responsible for meeting recycling goals set forth by the Regional Board. The regional goal is shown in Table IV-2 and individual goals are shown in Table IV-3.

The region plans to promote source reduction within the County and may look toward establishing a composting program. Incineration as a viable alternative to landfilling will not be considered.

D. TEN-YEAR IMPLEMENTATION

There are no waste reduction strategies which are not addressed in another chapter. Therefore this section does not apply.

E. STAFFING AND TRAINING NEEDS

There are no waste reduction strategies which are not addressed in another chapter. Therefore this section does not apply.

Table IV-2
Estimated Quantities of Waste Removed or Diverted from the Waste Stream (tons)

Year	Previous Reductions	Recovered & Recycled	Diverted to Alternative Disposal	Economic Incentives	Other	Total
1985 to 1989	0	0	0	0	0	0
1990	0	0	0	0	0	0
1991	0	0	0	0	0	0
1992	0	0	0	0	0	0
1993	0	1,360	0	0	0	1,360
1994	0	2,110	0	0	0	2,110
1995	0	3,500	5,732	0	0	9,232
<i>Subtotal</i>	<i>0</i>	<i>6,970</i>	<i>5,732</i>	<i>0</i>	<i>0</i>	<i>12,702</i>
1996	0	6,190	6,620	0	0	12,810
1997	0	6,240	6,680	0	0	12,920
1998	0	6,300	6,730	0	0	13,030
1999	0	6,350	6,792	0	0	13,142
2000	0	6,400	6,853	0	0	13,253
2001	0	6,460	6,902	0	0	13,362
2002	0	6,510	6,961	0	0	13,471
2003	0	6,565	7,135	0	0	13,700
Total	0	57,985	60,405	0	0	118,390

Table IV-3
Estimated Quantities of Waste Removed or Diverted from the Waste Stream for Specific Sectors of the Region for 1995 (tons)

	Recovered and Recycled	Diverted to Alternative Disposal
Algood	163	268
Baxter	88	144
Cookeville	1,481	2,426
Monterey	177	290
Putnam County	1,590	2,604
Total	3,499	5,732

F. RESPONSIBILITIES FOR IMPLEMENTATION

There are no waste reduction strategies which are not addressed in another chapter. Therefore this section does not apply.

G. PROGRESS REPORTS

There are no waste reduction strategies which are not addressed in another chapter. Therefore this section does not apply.

CHAPTER V
WASTE COLLECTION AND TRANSPORTATION

A. COLLECTION SYSTEM

Putnam County currently operates six convenience centers throughout the region. Using the criteria established in Rule 1200-1-7-.10 there are no underserved areas. Based on this state guideline, the region could operate three centers and maintain an acceptable level of service for its residents.

B. REGIONAL NEEDS

Although the level of service provided to residents by Putnam County is acceptable, there are inefficiencies within the waste collection and transportation program which could be improved.

As indicated in the previous section, the County currently operates six convenience centers throughout the region. Each of these centers have approximately 20 green boxes with 8 cubic yard capacities which accept commingled waste, a single 40-yd roll-off for brush, and two compartmented containers for recyclables. A front-end loader, which must be replaced every five years runs continuously from the centers to the landfill to dispose of the waste. The County also owns a truck and hoist to transport the existing roll-offs to the landfill. The existing centers are capable of handling:

- commingled household waste
- brush
- aluminum
- tin
- glass
- paper
- corrugated cardboard
- magazines

To improve the system it is recommended that the County upgrade the existing unmanned

facilities as well as upgrade the equipment used at the operational convenience centers. Each center should be equipped with the following:

- one 40-yard roll-off box for Class III/IV waste
- a compactor
- two 42-yard packer receivers
- a truck and hoist capable of transporting the new roll-offs
- two 35-yd compartmented containers for recyclables
- two automotive fluid tanks

Transportation requirements dictate at least one extra transportation container for each container used, assuming a full container picked-up is replaced with an empty. The surplus of green boxes generated can be incorporated into the recycling program or used to satisfy commercial customer needs.

C. TEN-YEAR IMPLEMENTATION

By January 1, 1995, six convenience centers will be operational. The facilities will be capable of accepting recycled materials and commingled waste, as well as several problem wastes. The new equipment will be phased in over a two year period.

D. STAFFING AND TRAINING NEEDS

A minimum of six people which will be needed to operate the convenience centers. All staff will be trained on the proper operation of solid waste collection facilities. At a minimum, the program will include the process identifying acceptable waste (*i.e.*, differentiating hazardous from solid waste). As more centers are needed or service hours are expanded more employees will be added.

Collection service is contracted to the landfill operator. Therefore, no recommendations for staffing or training have been made.

The County will establish a Solid Waste Department with a Director to ensure that the waste

collection and transportation system is run both efficiently and effectively.

E. BUDGET

The County will finance the convenience center expenses through general funds. In addition, the County will apply for grants to aid with the capital costs of enhancing the existing collection system. Eventually, a per bag disposal fee will be established. It is anticipated that this will occur by January 1, 1996.

The operating costs of the facility will be funded by the County through the Solid Waste Department. The budget is shown in Table V-1.

**Table V-1
Waste Collection and Transportation Ten-Year Budget**

ITEM	CAPITAL COST	ANNUAL COST*
Front-End Loader Replacement	\$125,000	
Truck and Hoist Replacement	\$75,000	
Containers		
Compactor	\$60,000	
42-yd Packer Receiver	\$42,000	
40-yd Open Top	\$30,000	
Collection Expenses		\$135,000
Salaries and Training		\$110,000
Equipment		\$76,000
Maintenance		\$10,000
Utilities		\$6,000
TOTAL	\$332,000	\$337,000

* Annual costs are in 1994 dollars. It is anticipated that the costs will increase at an annual rate of 5%.

F. SCHEDULE

The ten-year implementation schedule is shown in Figure V-1.

**Figure V-1
Waste Collection and Transportation Ten-Year Schedule**

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Equipment Purchase										
Staff Training										
Establish Waste Collection/Disposal Fee										
Collection of Data										
Annual Report/Plan Updates										

G. MULTI-COUNTY REGION RESPONSIBILITIES

This section does not apply.

H. LOCATION OF FACILITIES

Figure V-2 shows the general location of the convenience centers and their respective transportation routes.

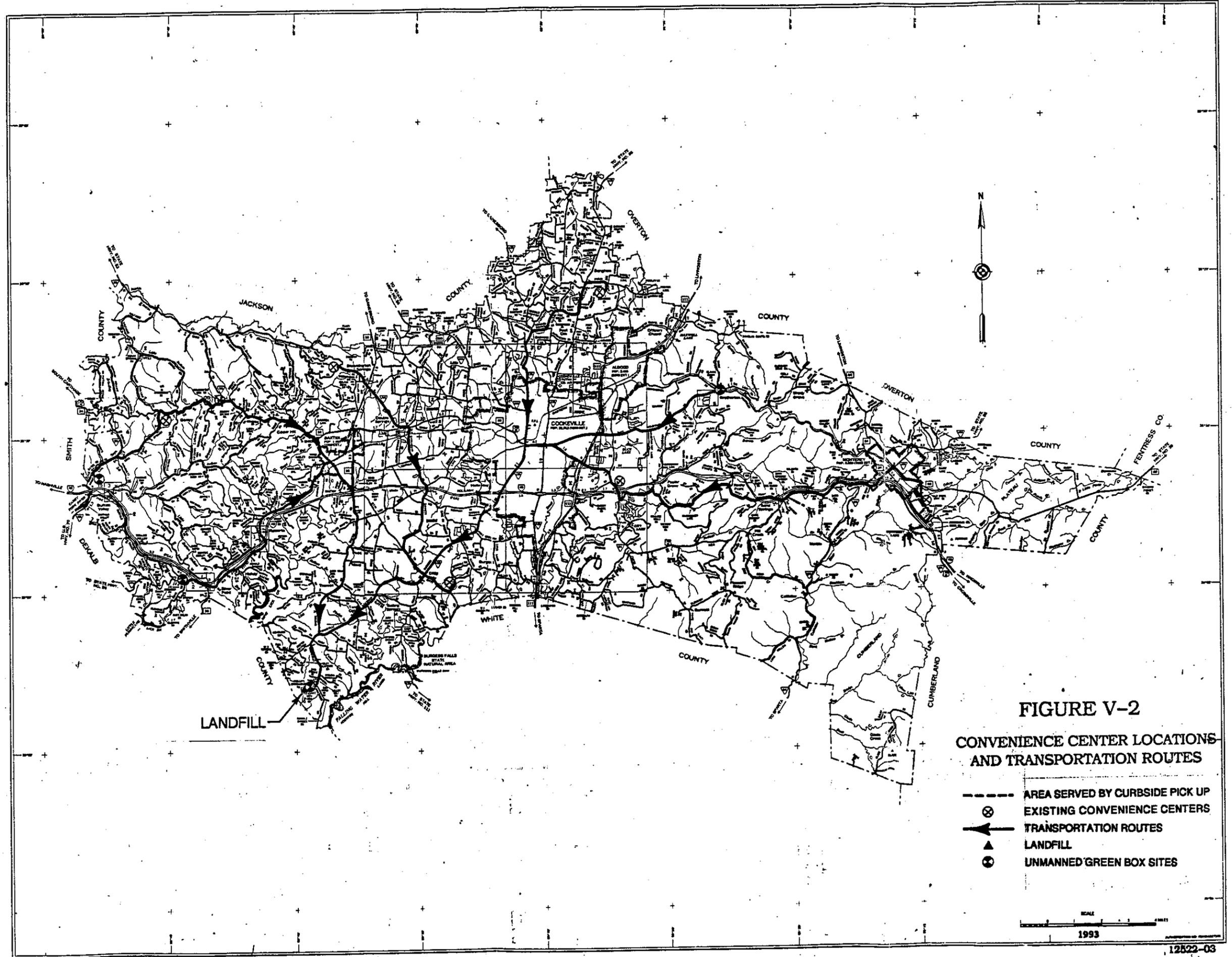


FIGURE V-2

CONVENIENCE CENTER LOCATIONS AND TRANSPORTATION ROUTES

- AREA SERVED BY CURBSIDE PICK UP
- ⊗ EXISTING CONVENIENCE CENTERS
- TRANSPORTATION ROUTES
- ▲ LANDFILL
- ⊙ UNMANNED GREEN BOX SITES

SCALE
1993

CHAPTER VI RECYCLING

A. REGIONAL NEEDS

In order to meet the 25 percent waste disposal reduction goal, recycling will be a necessary part of Putnam County's solid waste management system. Due to the County's diversity as a region, two recycling methods may be utilized: convenience center recycling and curbside recycling. The Region currently has limited programs in place.

B. SPECIFIC ACTIONS

Because recycling activities are not a truly integral part of the regional system, the entire area is underserved. A program is proposed to be in place by January 1, 1995, that will serve the entire county. This program will utilize both convenience center recycling as well as a centrally located recycling center. Curbside recycling may be established at a later date in Algood, Baxter, Cookeville, and Monterey.

A large portion of materials received at the Putnam County Landfill can and should be recycled. Recyclable materials include the materials listed in Table VI-1. Major revenues from recycling programs typically come from aluminum, cardboard, glass and paper, with aluminum being the most valuable recyclable product.

The existing recycling program in Putnam County will be developed through coordination with county and municipal government. One centralized storage facility, equipped with glass crushers and cardboard balers, will be operated by Cookeville. Operational costs will be subsidized through funds provided by the County. Recyclable materials may be delivered to the facility by the various municipalities and individuals within the County.

The Recycling Center is currently located in Algood. It is anticipated by January 1995, that the facility may be moved to Cookeville. This action will provide for a more centralized facility (with regard to regional population) and should increase usage of the center.

Each convenience center will be equipped with two compartmented containers for recyclables,

as well as containers for commingled waste. Space for storage of tires, batteries and automotive fluids will also be provided. Tires will be transferred to the landfill storage area for safety reasons prior to recycling or disposal, while batteries will be transported to the Recycling Center. Waste oil and other automotive fluids will be moved by a contract hauler directly from the recycling point. As the market for recyclable materials develops, additional materials will be added to the program.

Table VI-1
Recyclable Materials

Material	Estimated Value (\$/ton)
Aluminum Cans	300-600
Ferrous/Bi-metal Cans	5-15
Aluminum Scrap	300-500
Ferrous Scrap	15
Green Glass	5-15
Clear Glass	10-45
Brown Glass	8-13
Mixed Glass	2-10
Plastic HDPE	20-100
Plastic PET	20-100
Old Newspaper	10-20
Corrugated Cardboard	50-70
High Grade Paper	50-200

As a region, a recycling goal of 474 pounds per year per person has been set. To meet this goal, the region must encourage participation. This can be accomplished through education on source reduction and recycling (See Chapter IX). At this time, there are no plans to create/expand markets for recovered materials on products with a recycled content.

In order to operate the recycling program, the County will continue to work with the City of Cookeville. The City will be responsible for identifying markets for recycled material and preparing annual reports to be submitted to the Solid Waste Director for Putnam County. Additionally, the City and County will help educate the region's residents and businesses on the importance of recycling.

The regional recycling program will be funded through the tipping fees collected at the landfill as well as with revenue from the sale of recyclables. It is anticipated that by the end of the ten-year planning period, the program will be fully funded by the sale of recycled material (See Table VI-2).

**Table VI-2
Recycling Program Ten-Year Budget**

ITEM	CAPITAL COST	ANNUAL COST
Recycling Center Building Construction		
Equipment	\$50,000	\$15,000
Maintenance		\$10,000
Salaries		\$100,000
Advertising		\$10,000
Utilities and Supplies		\$25,000
Training		\$5,000
TOTAL	\$50,000	\$205,000

* Annual costs are expressed in 1994 dollars. It is anticipated that the costs will increase at an annual rate of 5 percent.

C. RECYCLING PROGRAM COORDINATION

Putnam County will encourage recycling through its education program. This program will target households, schools, businesses, and industries. Efforts will include coordination with the

Office of Cooperative Marketing to assist businesses and industries in participating in the recycling program. The County plans to work with existing recycling businesses to limit duplicate efforts.

D. TEN-YEAR IMPLEMENTATION AND SCHEDULE

In order to fully run the regional recycling program, Putnam County will work with the City of Cookeville to coordinate the program to ensure effectiveness.

In accordance with the Tennessee Solid Waste Management Act, annual reports will be provided to the State to reflect the efforts of the recycling programs. The City of Cookeville will be responsible for maintaining records of all marketing of recyclables. All records will be submitted to the Putnam County Solid Waste Director.

The ten-year schedule is shown in Figure VI-1.

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Recycling Center Construction/Improvements										
Staff										
Equipment Purchase/Maintenance										
Advertisement										
Training										

E. ALLOCATION OF RESPONSIBILITY

The Putnam County Department of Solid Waste and the City of Cookeville will share the responsibility for the implementation of the recycling program.

F. LOCATION OF FACILITIES

The existing Recycling Center is located in Algood (See Figure VI-2).

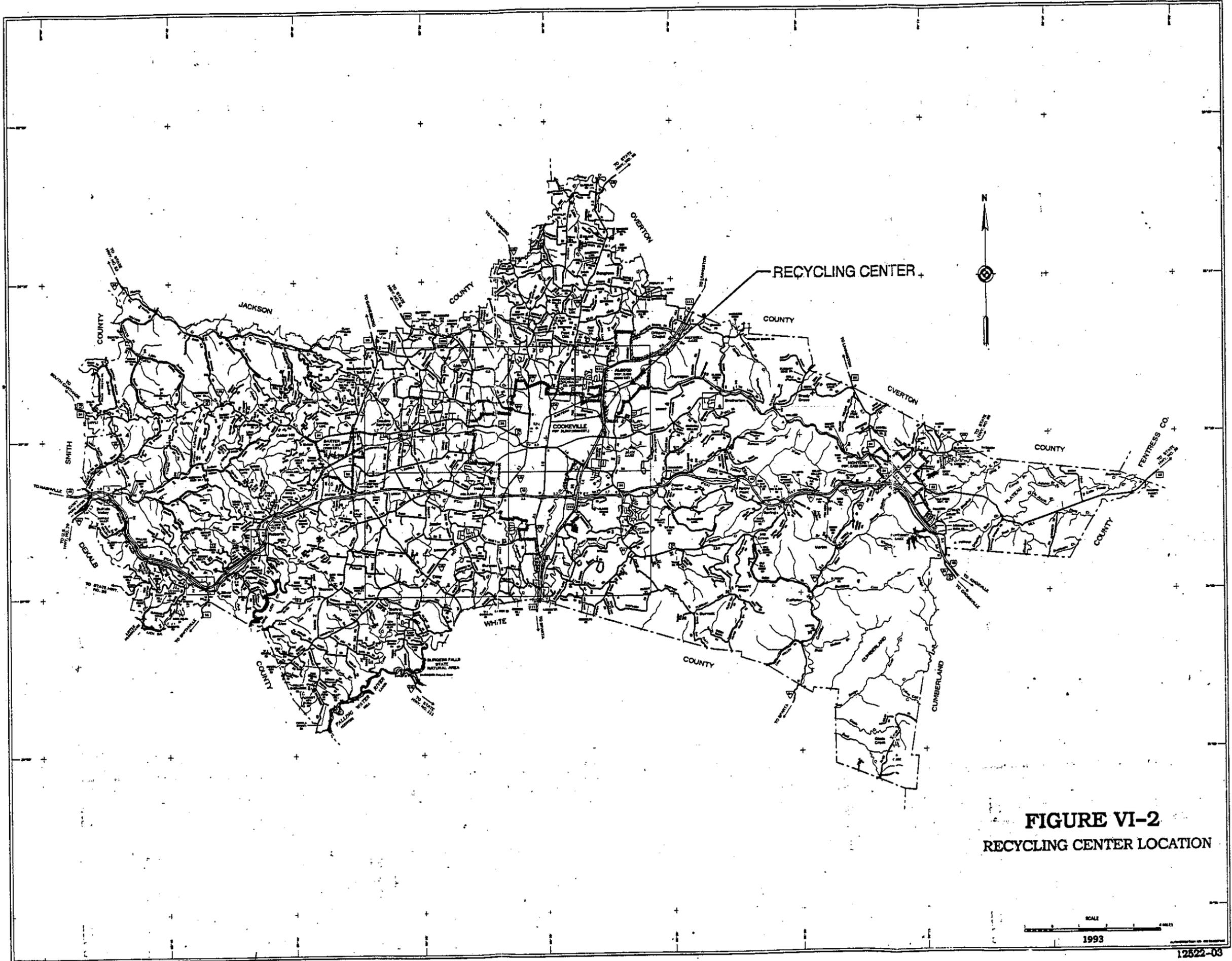


FIGURE VI-2
RECYCLING CENTER LOCATION

SCALE
1993

**CHAPTER VII
COMPOSTING SOLID WASTE PROCESSING, WASTE-TO-ENERGY AND
INCINERATION CAPACITY**

A. REGIONAL NEEDS

With one incineration facility available to incinerate medical/infectious waste generated by the Cookeville General Hospital, Putnam County has no plans to build additional facilities to burn municipal solid waste. However, Putnam County may use composting on a regional level to reduce the amount of solid waste being landfilled.

Composting in one form or another can offer the Region a significant waste diversion capability. There are four basic composting techniques to be considered.

1. Large Scale Composting
2. Intermediate Level Composting
3. Low Level Composting
4. Backyard Composting

A large-scale composting facility, consisting of a materials-handling facility to separate compostable materials from non-compostable materials capable of handling 100 tpd would cost an estimated \$8,000,000. Over the life of the facility (20 years) a capital cost allocation results in a capital cost of approximately \$20 per ton (\$23 per ton with operating costs), which is significant savings compared to the cost of landfilling. However, this cost estimate is only accurate if the facility operates at full capacity. Currently, the region is unable to support a 100 ton per day facility. At this time only a maximum of 20 tons per day could be diverted to a composting facility.

An intermediate-level facility would have a smaller initial capital expense. However, the quality of compost produced could not be controlled as easily. A facility capable of handling a maximum of 25 tons per day would cost approximately \$420,000 initially. This would include the purchase of windrow turning equipment, land acquisition, and site development. Based on a lifespan of ten years, disposal of waste through this method would cost \$14 per ton.

Low-level composting would require a smaller initial capital expense than required by an intermediate facility. A facility capable to handling 15 tons per day would require an initial cost of approximately \$300,000. this cost would primarily apply to processing equipment capable of manufacturing compost which meets new state regulations.

Composting with proper education can also be accomplished on a small scale by homeowners. Backyard composting not only reinforce waste consciousness, but also eliminates a significant amount of material from the general waste stream intensive separation process.

As indicated in Chapters I and II, sufficient capacity is available at the landfill to meet the needs of the region. Therefore, quantitative needs for composting are non-existent. If composting were implemented, the extension of landfill life in the region would be a great benefit.

B. SPECIFIC ACTIONS

This section does not apply. However, Putnam County plans to promote composting on the individual level through education (See Chapter IX).

C. SCHEDULE

This section does not apply.

D. ALLOCATION OF RESPONSIBILITY

This section does not apply.

E. LOCATION OF FACILITY

This section does not apply.

**CHAPTER VIII
DISPOSAL CAPACITY**

A. DISPOSAL SUPPLY AND DEMAND

Putnam County has one landfill in operation which accepts Class I material. This facility is scheduled for closure in February 1996. Two new disposal facilities are currently being designed: a Class I facility and a Class III/IV facility.

These facilities are scheduled to open in October 1995 for the Class III/IV and February 1996 for the Class I. These have capacities of 165,000 CY (82,500 tons) and 1,150,000 CY (575,000 tons) respectively.

B. EXCESS CAPACITY

As the analysis shows in Table VIII-1, the region has a surplus of landfill space for the ten-year planning period. This surplus will be protected from outside disposal. The Solid Waste Management Board does not plan to exercise flow control by banning out of county waste.

C. CAPACITY SHORTFALL

This section does not apply.

D. SCHEDULE

The ten-year budget and implementation schedule are shown in Table VIII-3 and Figure VIII-1, respectively.

E. MULTI-COUNTY RESPONSIBILITIES

This section does not apply.

F. LOCATION

This existing solid waste disposal facility and proposed facilities are shown in Figure VIII-2.

G. REGIONAL EXPORTS

This section does not apply.

**Table VIII-1
Tons Per Year**

Year	DEMAND: Tons of Waste Requiring Disposal	SUPPLY: Existing & Planned Capacity	Surplus (+)	Shortfall (-)
1993	59,784	182,745	+122,961	
1994	59,667	123,078	+63,411	
1995	49,492	73,586	+24,094	
1996	49,915	579,098	+529,183	
1997	50,342	529,606	+479,264	
1998	50,773	479,691	+428,918	
1999	51,207	429,349	+378,142	
2000	51,645	378,570	+326,925	
2001	52,086	275,724	+223,638	
2002	52,516	223,638	+171,122	
2003	52,945	171,112	+118,167	

Table VIII-2
Projected Net Disposal Capacity (tpy)

Year	Putnam County	Regional Total
1993 base year	122,961	0
1994	63,411	0
1995	+24,094	+24,094
1996	+529,183	+529,183
1997	+479,264	+479,264
1998	+428,918	+428,918
1999	+378,142	+378,142
2000	+326,925	+326,925
2001	+223,638	+223,638
2002	+171,122	+171,122
2003	+118,167	+118,167

**Table VIII-3
Disposal Capacity Ten-Year Budget**

ITEM	CAPITAL COST	ANNUAL COST
Leachate Migration Control System	\$470,000	
Synthetic Liner and Geonet	\$230,000	
Buffer, Road, Pond, etc. Construction	\$475,000	
QA/QC	\$250,000	
Engineering Geology	\$50,000	
Closure/Post-Closure	\$2,700,000	\$60,000
Operational Cost		\$630,000
TOTAL	\$4,175,000	\$690,000

* Annual costs are expressed in 1994 dollars. It is anticipated that the cost will increase at an annual rate of 5%.

**Figure VIII-1
Disposal Capacity Implementation Schedule**

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Close Existing Landfill										
Permit/Open Class I										
Permit/Open Class III/IV										



FIGURE VIII-2
LOCATION OF SOLID
WASTE DISPOSAL FACILITIES

SCALE
 1 MILE
 1993

**CHAPTER IX
PUBLIC INFORMATION AND EDUCATION**

A. REGIONAL NEEDS

With no formal education programs being implemented in the region, there is a definite void in the solid waste management system. The region plans to establish an education/public information program to promote recycling, source reduction and various landfill alternatives.

B. MEETING IDENTIFIED NEEDS

To ensure the success of the solid waste management plan and avoid the inconsistencies often characterized by programs heavily dependent on volunteer help, it is held that a full time employee be devoted to this area. Public relations/education efforts appear ultimately to be a cost-effective means for familiarizing citizens of the region with current and impending statutory mandates and emphasizing the scope and size of the collective effort required for compliance.

The region plans to develop an education program which will target a variety of audiences. Through the education of local officials, interest groups, and the general public, as well as the coordination with existing solid waste education groups, the region believes that its goals will be met.

To reach the public, the region will provide information regarding all recycling/waste reduction activities. The information will be provided through advertisement in newspaper and radio and through pamphlets/brochures at County offices.

The county education office will work extensively with local interest groups, schools, and state agencies to develop educational programs. The County plans to use volunteers from these organizations to help with the implementation of the programs.

To organize the recycling program, the region will need to hire one full-time employee. As the program develops, more personnel will be added. The funds for operating the public information and education program will come from the sale of recycled materials and from landfill tipping fees.

C. SCHEDULE

The ten-year budget and implementation schedule can be found in Table IX-1 and Figure IX-1, respectively.

D. MULTI-COUNTY RESPONSIBILITY

This section does not apply.

**Table IX-1
Public Information and Education Budget**

ITEM	CAPITAL COST	ANNUAL COST
Staff		\$45,000
Advertising/Educational Programs		\$25,000
Equipment and Supplies	\$10,000	\$1,000
TOTAL	\$10,000	\$71,000

**Figure IX-1
Ten-Year Implementation Schedule**

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Staff										
Meet with Local Interest Groups										
Develop Brochures/Teaching Aids										
Develop/Schedule Training Programs										

**CHAPTER X
PROBLEM WASTES**

A. HOUSEHOLD HAZARDOUS WASTE

Putnam County generates tons of household hazardous waste each year which is virtually unaccounted for in the current solid waste management system. To offer the region an environmentally safe method of disposing this waste, the County plans to participate in the state sponsored hazardous waste collection program. This program will provide one collection day per year.

To ensure that the public is aware of the event and what materials will be accepted, the County will advertise in the local newspaper and on radio stations. Signs and hand-outs indicating acceptable material will also be available at the collection center. To further promote the event, flyers will be available at grocery stores and gas stations throughout the region.

The County's cost for this program will be small since the state is funding most of the operation. The County is responsible for providing a site for the collection activities, representatives on-site throughout the collection day, and advertisement for the event. Table X-1 outlines costs expected to be incurred for the event.

**Table X-1
Household Hazardous Waste Collection Costs**

ITEM	COST
Advertisement	\$1,000.00
Staff	\$ 300.00
TOTAL COST	\$1,300.00

The schedule for implementing the program depends upon the availability of the contractor.

B. WASTE TIRES

A waste tire storage facility is available at the County landfill. This facility stores tires until the state tire shredder, which comes twice each year, is available. When necessary, one landfill operator will be responsible for aiding the shredder staff.

Once the tires are shredded, the material will be disposed of in the Class I facility. However, the tires will be disposed in the Class III/IV facility beginning in 1995.

C. WASTE OIL

With only one collection center, the County offers minimal management for waste oil. A program for the collection of waste oil, however, will be implemented as part of the solid waste management system. It is proposed that the County will contract with a private waste oil hauler to provide seven waste oil collection sites (one at each convenience center and the landfill).

D. LEAD ACID BATTERIES

The County offers no management for lead acid batteries. However, a facility to ensure the proper storage of the batteries will be built at the landfill. Residents of the region will be able to dispose of old batteries during landfill operating hours.

E. LITTER

The region possesses a Tennessee Department of Transportation grant for the collection of litter along the highway. The region plans to use a portion of these funds for education. The County also plans to continue to promote the Adopt-a-Highway program.

F. INFECTIOUS WASTE

The region has no plans for developing a system to handle infectious waste. Putnam Medical Center has the only incinerator permitted in the County. This incinerator is capable of handling the volume of waste generated at the medical facility.

G. OTHER PROBLEM WASTES

No other wastes pose a significant problem to the County.

CHAPTER XI
IMPLEMENTATION: SCHEDULING, STAFFING, AND FUNDING

A. SYSTEM DEFINITION

The new system will consist of five primary elements: waste collection and transportation, landfills, recycling/source reduction, educational programs, and household hazardous waste collection.

The waste collection and transportation element includes the upgrading of six convenience centers throughout the region. The new centers will offer a place for the disposal of household solid waste, recyclables, debris, automotive fluids, tires, and batteries.

Door-to-door pickup will continue to be utilized in the four communities in which it exists. Curbside recycling may be implemented in these areas as well.

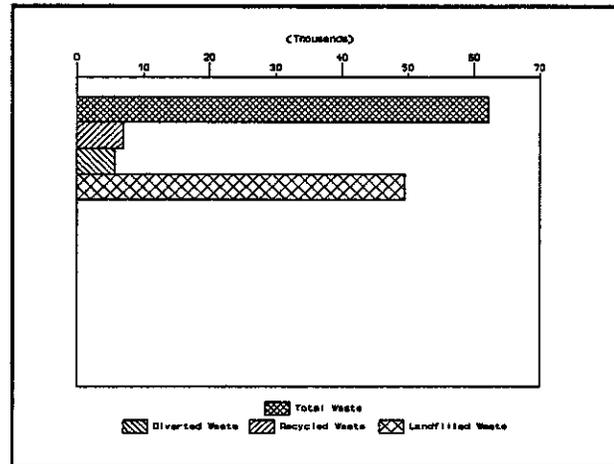
The disposal capacity of the region will be adequate if the 25 percent recycling goal is met. The new Class I landfill is in the design process and is scheduled to open in February 1996. The Class I facility will have a total of 1,150,000 CY of storage and the Class III/IV facility which is scheduled to open in October 1995 will have a total capacity of 165,000 CY of storage. These facilities will be built adjacent to the current landfill so that no change in transportation routes is expected to occur.

One new office will be added to the Putnam County Government. The Department of Solid Waste will be responsible for tracking landfill activities as well as implementing the recycling program. Additionally, this office will work with the City of Cookeville to find buyers for the recycled material. This office will also be responsible for promoting recycling within the County by developing and promoting training programs.

Hazardous waste collection will also be an element of the new regional solid waste management system. The County plans to coordinate with the State to provide one collection day each year.

Figure XI-1 shows the anticipated flows for each component of the solid waste management system.

**Figure XI-1
Solid Waste Flow Diagram**



B. IMPLEMENTATION SCHEDULE

Figure XI-2 shows the implementation schedule for the entire solid waste management system over the next ten years.

C. STAFFING AND TRAINING REQUIREMENTS

The staffing and training requirements for the new Solid Waste Management system are provided in Table XI-2.

D. BUDGET

The budget for the new system is given in Table XI-3.

**Figure XI-2
System Implementation Schedule**

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
WASTE COLLECTION AND TRANSPORTATION										
Equipment Purchase										
Staff Training										
Establish Disposal Fee										
Collection of Data										
Annual Reports										
RECYCLING										
Staff										
Recycling Center Construction/Improvements										
Equipment Purchase/Maintenance										
Training										
Advertisement										
DISPOSAL										
Close Existing Landfill										
Permit/Open Class I										
Permit/Open Class III/IV										
EDUCATION AND PROBLEM WASTES										
Staff										
Meet with Local Interest Groups										
Develop Brochures										
Develop/Schedule Training Programs										
Household Hazardous Waste Collection Day										

**Table XI-2
System Staffing and Training Requirements**

ITEM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Waste Collection and Transportation	AT	I	I	I	I	I	I	I	I	I
Recycling	AT	I	I	I	I	I	I	I	I	I
Disposal	IT	I	I	I	I	I	I	I	I	I
Public Information and Education Programs	AT	I	I	I	I	I	I	I	I	I
Problem Wastes	IT	I	I	I	I	I	I	I	I	I

I = Staff in place

A = Additional staff required

T = Staff training required

**Table XI-3
System Budget**

ITEM	CAPITAL COST	ANNUAL COST
Waste Collection and Transportation	\$332,000	\$337,000
Recycling	\$50,000	\$205,000
Disposal Facilities	\$4,175,000	\$690,000
Public Information and Education Programs	\$10,000	\$71,000
Problem Wastes	---	\$1,300
TOTAL	\$4,907,000	\$1,164,300

* Annual costs are expressed in 1994 dollars. It is anticipated that the cost will increase at an annual rate of 5%.

**CHAPTER XII
RESPONSIBILITIES**

A. PLAN ADOPTION

This plan has been developed by the Putnam County Solid Waste Management Board. The county will be responsible for the implementation of the plan. This includes the development of recycling and educational programs as well as the collection and disposal of solid waste, recyclables, and problem wastes as provided by the laws of Tennessee.

This plan to reflect appropriate comments submitted during the public hearings for plan review. The Board and the county thereafter adopted this plan as documented in Appendix E.

B. SUBMISSION

The Region is required to submit three signed copies of this plan to the Governor's State Planning Office prior to July 1, 1994.

CHAPTER XIII
FLOW CONTROL

Flow control issues will be addressed by the Putnam County Commission and Solid Waste Department on an individual basis.

PART III

APPENDIX A

Legal Documentation and Organization of the Region

<u>FOR</u>		<u>AGAINST</u>	<u>ABSENT</u>
Anna Ruth Burroughs	Joe Dyer	Charles Looper	Ray Newman
Waldo Power	Lester Beaty	Steve Medlin	
Hal Denton	Eddie Thompson	David Brewington	
Dale Welch	Carmel Lee	Jimmy Stewart	
John Donnelly	Joe Pritchard		
Reggie Shanks	George Trobaugh	<u>PASS</u>	
Elton Stout	Billy Rodgers	Ralph Dunn	
John Greenwood	Russell Cyphers	Donell McBroom	
Seborn Pharris	Joe Frank Adkins		

The Clerk announced seventeen (17) voted for, four (4) voted against, three (3) passed and one (1) was absent. Therefore, the Chairman declared the motion to have carried.

MOTION RE: TO ELECT)
)
 CONNIE ALBRECHT AND)
)
 JEFFREY JONES TO THE)
)
 LIBRARY BOARD)

A motion was made by Commissioner Reggie Shanks, seconded by Commissioner John Donnelly, to elect Connie Albrecht and Jeffrey Jones to fill the unexpired terms of Douglas Powers, Jr. and Katie Kumar on the Putnam County Library Board.

Motion to cease nominations was made by Commissioner Joe Pritchard, seconded by Commissioner John Donnelly. Motion to cease nominations passed by voice vote.

MOTION RE: RECOMMEND)
)
 APPOINTMENT OF NINE TO)
)
 PUTNAM CO. SOLID WASTE)
)
 REGION BOARD)

A motion was made by Commissioner Joe Frank Adkins, seconded by Commissioner John Donnelly, to appoint Joe Frank Adkins, Dale Welch, George Trobaugh, Carmel Lee, Anna Ruth Burroughs, David Norris, Hugh Birdwell, Isham Keith and Mike Allred to the Putnam County Solid Waste Region Board.

Motion to cease nominations was made by Commissioner Joe Pritchard, seconded by Commissioner John Donnelly. Motion to cease nominations carried by voice vote.

At this time, the Chairman called for a roll call vote on all nominations and the following Commissioners voted as follows:

APPENDIX B

Documentation for Adjustments to the Base Year Generation

This Appendix Does Not Apply.

APPENDIX C

Public Participation Activities

RECEIVED
Barge, Waggoner, Sumner & Cannon

Herald-Citizen

P. O. Box 2729
Cookeville, Tennessee 38502-2729

JUN 27 1994

JOB NO.
TO

Legal 9-172

DOUGLAS M. MCBROOM
COUNTY EXECUTIVE
300 EAST SPRING STREET, ROOM 8
COOKEVILLE, TN 38501

PUBLIC MEETING

Putnam County Solid Waste Board is in the process of preparing a ten year municipal solid waste plan for the county. The purpose of the plan is to 1) carry out an inventory and analysis of the existing solid waste management system; 2) define the needs for additional services and facilities; and 3) recommend solutions to waste disposal needs.

Interested citizens are invited to attend the public meeting to provide comments and recommendations concerning Putnam County's solid waste needs. The meeting will be Tuesday, May 10th, 1994, at the Putnam County Courthouse in the Chancery Courtroom, beginning at 4:30 p.m. (CST)

Comments presented at the meeting or written comments postmarked by May 12, 1994 will be considered in preparation of the plan. Written comments should be addressed to Doug McBroom, County Executive, 300 E. Spring St., Rm 8, Cookeville, TN 38501.

5-2

State of Tennessee

County of Putnam ss

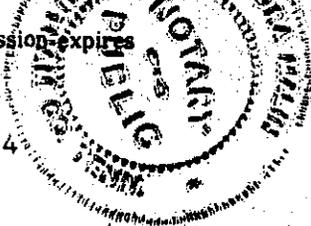
Sam Thompson, Jr., of the city of Cookeville, in said county and state, being duly sworn, on his oath says that he is the Editor & Publisher of the Cookeville Herald-Citizen, a daily newspaper of general circulation published in said city, and that the notice, a printed copy of which is hereto annexed, was published in said newspaper for 1 (ONE) consecutive (weeks) (days) which publication was made on MAY 2, 1994

Sam Thompson Jr.

Subscribed and sworn to before me this 3RD day of MAY 1994

[Signature]
Notary Public, Putnam County, Tennessee

My commission expires



AMOUNT DUE \$ 25.44

PUBLIC HEARING

PUTNAM COUNTY REGIONAL SOLID WASTE PLANNING BOARD

PUTNAM COUNTY COURTHOUSE

Tuesday, May 10, 1994

MINUTES

County Executive Doug McBroom called the meeting to order at approximately 4:30 pm. He explained that the purpose of the meeting was to review the ten-year plan prepared by BWSC, and to consider any public comments.

Al Hogan and Jack Thompkins with BWSC presented the plan to the board and the public. They reviewed all chapters of the ten-year plan. Public questions concerning landfill life expectancy, convenience center access and the recycling program were discussed. The public was assured that their comments would be considered in the final version of the plan.

The meeting was adjourned at approximately 5:50 pm.

Ken Shepherd

Ken Shepherd

Acting Secretary

Please sign-in-

Cris Bryant -	County Exec. Office
Anna Ruth Burroughs -	County Commissioners
Kenga Shepherd -	WADD
Greg Scott	City of Cookeville
Marta Lowe	Prepared Pallets
Dale Welch	County Commissioner
DANNY Roberts	Landfill operator
Hugh Birdwell	City of Cookeville
Myrna Ester	Clean Commission
Reggie Shanks & Wife	County Commissioners
Kill Larsen	WKXD/WATX radio
Dow Foy	Here-to-citizen -

APPENDIX D
Export and Imports

This Appendix Does Not Apply.

APPENDIX E

Review by Appropriate Municipal or Regional Planning Commission

PUTNAM COUNTY REGIONAL SOLID WASTE PLANNING BOARD MEETING

PUTNAM COUNTY COURTHOUSE

Tuesday, June 14, 1994

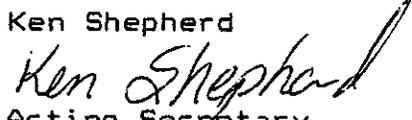
MINUTES

Joe Frank Adkins, chairman, called the meeting to order at approximately 5:30 pm. He explained that the purpose of the meeting was to review the ten-year plan prepared by BWSC, and to consider approval. Selection of an advisory committee for the board was also on the agenda.

Al Hogan and Jack Thompkins with BWSC presented the plan to the board. There was some discussion and it was voted unanimously to adopt the plan and recommend adoption to the Putnam County Commission. It was also decided to review the plan with the Landfill Committee and the Fiscal Review Committee. It was also voted unanimously to name Doug McBroom to serve as the advisory committee to the solid waste board.

The meeting was adjourned at approximately 5:50 pm.

Ken Shepherd


Acting Secretary

RESOLUTION NO. 1

A RESOLUTION
BY THE PUTNAM COUNTY
REGIONAL SOLID WASTE PLANNING BOARD
APPROVING THE PUTNAM COUNTY TEN-YEAR SOLID WASTE PLAN

WHEREAS, the Solid Waste Management Act of 1991 requires that the Putnam County Solid Waste Regional Planning Board develop a ten-year solid waste management plan for Putnam County, and

WHEREAS, the Putnam County Regional Solid Waste Planning Board contracted with Barge, Wagoner, Sumner & Cannon Engineers to develop the ten-year plan per the guidelines established by the Tennessee State Planning Office.

NOW, THEREFORE, BE IT RESOLVED, by the Putnam County Regional Solid Waste Planning board that it hereby approves the ten-year solid waste plan as presented on June 14, 1994 by the firm of Barge, Wagoner, Sumner & Cannon, and acknowledges the solid waste planning board's participation and responsibilities under this plan.

BE IT RESOLVED, this 14th day of June, 1994, the welfare of the citizens of Putnam County, Tennessee requiring it.

ATTEST:



Douglas McBroom, County Executive

APPROVED:



Joe Frank Adkins
Chairman, Putnam County Regional Solid Waste Planning Board

RESOLUTION NO. _____

A RESOLUTION
RATIFYING THE PUTNAM COUNTY
PLANNING REGION'S SOLID WASTE PLAN

WHEREAS, Tennessee Code Annotated 68-211-801 et. seq. requires that each county in the State of Tennessee form solid waste planning regions, and

WHEREAS, said regions are responsible for developing a ten (10) year plan for the management of solid waste, and

WHEREAS, by resolution the Putnam County Board of County Commissioners created the Putnam County Solid Waste Planning Region, and

WHEREAS, the resolution creating the Putnam County Planning Region also established a Board with the responsibility of developing, administering and updating the Region's plan as per the requirements of T.C.A. 68-211-801 et. seq., and

WHEREAS, this board has developed a ten (10) year municipal solid waste plan based upon and following the guidelines for such plans as promulgated by the Tennessee State Planning Office and T.C.A. 68-211-801 et. seq., and

WHEREAS, the guidelines promulgated by the Tennessee State Planning Office require that the municipal solid waste plan prepared by the Putnam County Planning Region be ratified by the Board of County Commissioners of the County composing said Region.

NOW, THEREFORE, BE IT RESOLVED, by the Putnam County Board of County Commissioners that it hereby ratifies the Putnam County Planning Region's solid waste plan and acknowledges Putnam County's participation and responsibilities under this plan.

BE IT RESOLVED, this 20th day of June, 1994, the welfare of the citizens of Putnam County, Tennessee requiring it.

ATTEST:



, County Clerk

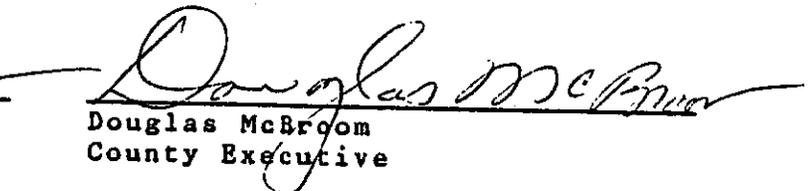


Reggie Shanks
Commission Chairman

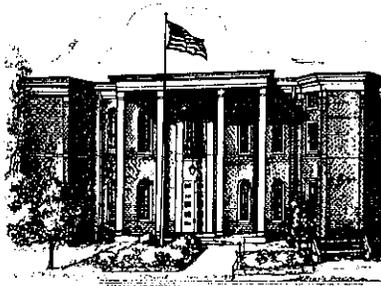
APPROVED AS TO FORM:



, County Attorney



Douglas McBroom
County Executive



COUNTY EXECUTIVE
Douglas M. McBroom
PUTNAM COUNTY, TENNESSEE
300 East Spring St., Room 8
Cookeville, Tennessee 38501
Tel: 615/526-2161
Fax: 615/528-1300

June 28, 2000

Ron Graham, Director
State of Tennessee
Department of Environment and Conservation
Division of Community Assistance
8th Floor, L & C Tower, 401 Church St.
Nashville TN 37243-1533

COPY

Dear Mr. Graham,

Enclosed is the Revised 10 Year Plan for the Putnam County Solid Waste Region that was approved by the Putnam County Board of Commissioners on June 19, 2000. I have included the original and a copy.

Please note that our Regional Solid Waste Committee elected a new chairman. All correspondence to the Chairman should be sent to:

Tom Dyer, Chairman Regional Solid Waste Committee
2287 Herbert Garrett Road
Cookeville Tn 38501

If you should have any questions, please feel free to call my office anytime.

Sincerely,

Doug McBroom
County Executive

Dhf/DMM
Enclosures

68-211-815. Municipal solid waste region plans - Contents.

	Ch ap ter
(a) Each plan and revised plan submitted by a municipal solid waste region pursuant to this part shall be consistent with the state solid waste plan, with the provisions of this part, with all other applicable provisions of law and with any regulation promulgated by the department.	
(b) At a minimum, each plan and revised plan submitted by a municipal solid waste region shall include the following:	
(1) Demographic information; <i>p. 13</i>	✓ 2
(2) A current system analysis of:	
(A) Waste streams , including data concerning types and amounts generated; <i>10, 17</i>	✓ 3
(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; <i>p. 15, 23</i>	✓ 6
(C) Disposal capability , including an analysis of the remaining life expectancy of landfills or other disposal facilities; <i>p. 29, 30, 7</i>	2
(D) Costs , using a full-cost accounting model developed by the commissioner, including costs of collection, disposal, maintenance, contracts and other costs; and	2, 3
(E) Revenues , including cost reimbursement fees, appropriations and other revenue sources;	2
(3) Adoption of the uniform financial accounting system required by § 68-211-874;	✓ 3
(4) Anticipated growth trends for the next ten-year period; <i>p. 20, 19</i>	6
(5) Anticipated waste capacity needs ;	6
(6) Planned capacity assurance , including descriptions of planned or needed facilities ; <i>p. 29, 30</i>	5
(7) A recycling plan , including a description of current public and private recycling efforts and planned efforts to enhance recycling within the county or region; <i>25-28</i>	✓ 7
(8) A plan for the disposal of household hazardous wastes ;	3
(9) Adoption of uniform reporting requirements as required by this part;	3, 8
(10) A description of waste reduction activities designed to attain the twenty-five percent (25%) reduction required by § 68-211-861; <i>p. 6</i>	2
(11) A description of education initiatives aimed at businesses, industries, schools, citizens and others, which addresses recycling, waste reduction, collection and other goals of this part; <i>22, 32, 8</i>	1
(12) An evaluation of multi-county solid waste disposal region options with an explanation of the reasons for adopting or failing to adopt a multi-county regional approach; <i>p. 14</i>	1, 3
(13) A timetable for implementation of the plan; <i>p. 9</i>	10
(14) A description of the responsibilities of the various participating jurisdictions; <i>p. 21</i>	✓ 10
(15) A certification from the region's part 9 solid waste authority, if such an authority has been formed, or if no such authority has been formed, the county legislative body of each county in the region that they have reviewed and approved of the region's plan and/or revised plan ; and	
(16) Any other information as the commissioner may deem relevant to the implementation of this part.	

[Acts 1991, ch. 451, § 14; T.C.A., § 68-31-815; Acts 1995, ch. 501, § 3; 1996, ch. 846, §§ 19-22.]

Region Putnam

Date 7/31/00

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PART I

Chapter 1: Summary

In June 1994, Putnam County and the cities of Cookeville, Monterey, Baxter and Algood developed and approved a plan for an integrated solid waste management system for the Region. Five-Year Updates to the Regional Plan are required by state mandate (T.C.A. 68-211-815(b)).

This document was prepared to address and summarize each component of an integrated solid waste management system for the Region of Putnam County. A comparison of the existing system of initial Regional Plan in 1994 and the Regional Revised Plan in 2000 is presented at end of this summary.

What follows is a brief discussion of the existing solid waste management system in the Region. Each existing component of the Region is then presented by chapter in more detail.

25% Waste Reduction Goal

Statutory Authority (edited) - T.C.A. 68-211-815 (b):

Each plan shall include a current system analysis, including waste streams, with data concerning types and amounts generated; anticipated growth trends for the next ten-year period; a description of waste reduction activities designed to attain the 25% reduction and diversion required by T.C.A. 68-211-861; and, a description of the responsibilities of various participating jurisdictions.

The goal of the state is that each municipal solid waste planning Region must have reduced by 25% the amount of waste disposed annually per capita in Class I landfills and incinerators in 1995 by 2003 (T.C.A. 68-211-861).

The amount of waste generated in the Putnam County Solid Waste Region for 1999 was 42,338 tons. In order to determine what percentage the Region achieved toward the state mandated waste reduction goal, the waste reduction formula must be calculated.

The municipal solid waste percent reduction calculation formula, as adopted by the Solid Waste Advisory Committee, is presented below.

- A. $\frac{\text{Current Year Population}}{\text{Base Year Population}} = \text{Population Ratio}$
- B. $\frac{\text{Current Year Tons Disposed}}{\text{Population Ratio}} = \text{Current Year Adjusted Tons}$
- C. $\frac{\text{Base Year Tons} - \text{Current Year Adjusted Tons}}{\text{Base Year Tons}} \times 100 = \text{\% Reduction of MSW Disposed in Current Year compared to 1995 Base Year}$

Using the Regions numbers in the equations above, the reduction goal is calculated below:

- A. $\frac{59,735 \text{ (1999 Census Population)}}{56,279 \text{ (1995 Census Population)}} = 1.06 \text{ Population Ratio}$
- B. $\frac{42,338 \text{ (1999 Tons Disposed)}}{1.06 \text{ Population Ratio}} = 39,942 \text{ (1999 Adjusted Tons)}$
- C. $\frac{116,014 \text{ (1995 Base Year Tons)} - 39,942 \text{ (1999 Adjusted Tons)}}{116,014 \text{ (1995 Base Year Tons)}} \times 100 = \mathbf{66\% \text{ Reduction of MSW Disposed in 1999 from 1995}}$

Collection and Transportation Programs

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a current system analysis, including collection capability, with data describing the different types of collection systems and the populations and areas which receive and do not receive such services.

Each county shall assure that one or more collection systems is available to meet the needs of the residents of the county (T.C.A. 68-211-851(a)).

Putnam County meets the collection assurance requirements in the Region by providing eight (8) convenience center sites throughout the County. The municipalities of Cookeville, Monterey, Baxter and Algood provide door-to-door solid waste collection services for residents. The Cities also provide business collection services for a fee. Putnam County and the municipalities have exceeded the minimum collection assurance requirements under the Tennessee Solid Waste Management Act of 1991. The solid waste management system in the Region is addressing the solid waste collection needs of residents, businesses and institutions of Putnam County, Cookeville, Monterey, Baxter and Algood.

Waste Reduction Programs

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a recycling plan, including a description of current public and private recycling efforts and planned efforts to enhance recycling with the county or Region.

If collection sites are not available, each county must provide at least one collection site for recyclables (T.C.A. 68-211-863).

Program Name	Jurisdiction Public/Private	Contact	Phone number	Address	Who served	Type
Residential Drop-off	Putnam County Public	Keith Street	(931) 528-3884	1846 S. Jefferson St. Cookeville, TN 38506	Putnam County residents	Eight (8) Convenience Center Sites
Putnam County Recycling Center	Putnam County Public	same	same	same	Putnam County and City residents and businesses	Material Recovery Facility
Business and School Drop-off	Putnam County Public	same	same	same	County businesses and area schools	Roll-off containers in lots
Class III/IV Landfill	Putnam County Public	same	same	same	County and City residents and businesses	Class III/IV landfill
Brush Mulching	Putnam County Public	same	same	same	Putnam County residents	Yardwaste mulching free to residents
Residential Drop-off	Cookeville Public	Tom Dyer	(931) 526-9591	45 East Broad Street Cookeville, TN 38501	Cookeville residents	Four (4) unmanned sites in the City
Business Drop-off	Cookeville Public	same	same	same	Cookeville businesses	Roll-off containers in lots
Brush Mulching	Cookeville Public	same	same	same	Cookeville residents	Yardwaste mulching free to residents
Composting	Cookeville Public	same	same	same	Cookeville residents	Compost yardwaste free to residents
Drop-off	Monterey Public	Benny Buckner	(931) 839-2323	P.O. Box 97 Monterey, TN 38574	Monterey residents and businesses	Roll-off container at City Hall
School Drop-off	Algood Public	Richard Norton	(931)537-9545	Algood School East Main Street Algood, TN 38506	Algood school	Roll-off container at school

Reduction efforts in the Region appear to be aggressive for the County and City of Cookeville. The Region has met the recycling site requirement of the State law. Marketing at the Putnam County MRF for recyclable materials is stable. All jurisdictions collecting recyclable material in the Region transport the material to the County MRF for processing and marketing services.

Disposal

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall provide a current system analysis, including disposal capacity, with an analysis of the remaining life expectancy of landfills or other disposal facilities; anticipated needs; planned capacity assurance; and descriptions of planned or needed facilities.

Each county shall assure that one or more disposal systems is available to meet the needs of the residents of the county (T.C.A. 68-211-851(a)).

The disposal capacity for the Solid Waste Region of Putnam County is approximately 10 years. The Class I landfill used for the disposal of solid waste generated and collected in the Region is the BFI Middlepoint Class I Landfill in Murfreesboro, Rutherford County, TN. The years of disposal left for the BFI is approximated at 10 years, according to the 1999 Remaining Life Survey prepared by the Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

Presently, Putnam County has a disposal contract with BFI for disposal of solid waste collected at the County transfer station. The transfer station accepts waste generated in the County, the four cities and businesses of the Region. The contract was signed in September 1996 for a period of five years with the option to renew for one five-year period.

Problem Wastes

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a strategy for the disposal of household hazardous waste, waste tires, used automobile fluids, lead acid batteries and used oil.

Each county must provide either directly or through contract, at least one collection site for waste tires, used automotive fluids, lead acid batteries, and used oil (T.C.A. 68-211-866(b)).

Household hazardous waste is collected at an annual event located on the Putnam County Fairgrounds. Waste tire collection is provided at the Putnam County Recycling Center. Waste oil and lead acid batteries are also collected at the Recycling Center. Waste oil is collected at County convenience center sites and the County Class III/IV Landfill.

Solid Waste Education

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a description of education initiatives aimed at businesses, industries, schools, citizens and others, which addresses recycling, waste reduction, collection and other goals of the Solid Waste Management Act of 1991.

School and community solid waste education efforts are summarized in the table below. The primary support for the education effort is provided by the Putnam County Solid Waste and Clean Commission

(KAB system). Budget appropriations from Putnam County and the City of Cookeville, and grants help to fund the Clean Commission.

Program	Focus of Program	Duration of Program	Point of Contact
Adopt-A-Street (18 organizations)	Public, Civic, Business	All programs are on-going and annually provided.	Kim Sells KAB Coordinator P.O. Box 299 Cookeville, TN 38503 (931) 528-1180
HHW Collection Event	Public, Civic, Business		
Litter-Free Events (4)	Public		
Great America Clean-Up	Public, Civic, Business		
School Presentations	Schools (K-12)		
Beautification	Public, Civic, Business		
Business/Industry Presentations	Business		
KAB Property Awards	Public, Business		
Songs and Art for Earth	Elementary Schools		
Business Expo Exhibits	Business		
Public Service Announcements	Public, Media		
Newspaper Articles ("Litter Box," Community Calendar)	Public		
Board of Directors Training (2)	Civic, Government		
Tennessee Technological University – Water Department Nonpoint Source Pollution Prevention	Schools, Public		
Earth Day	Public, Business, Schools, Civic, Government		
Recycling Center Tours	Public, Business, Schools, Civic, Government		

4. An implementation schedule illustrating current and planned facilities and programs for the Region is provided below.

Implementation Schedule

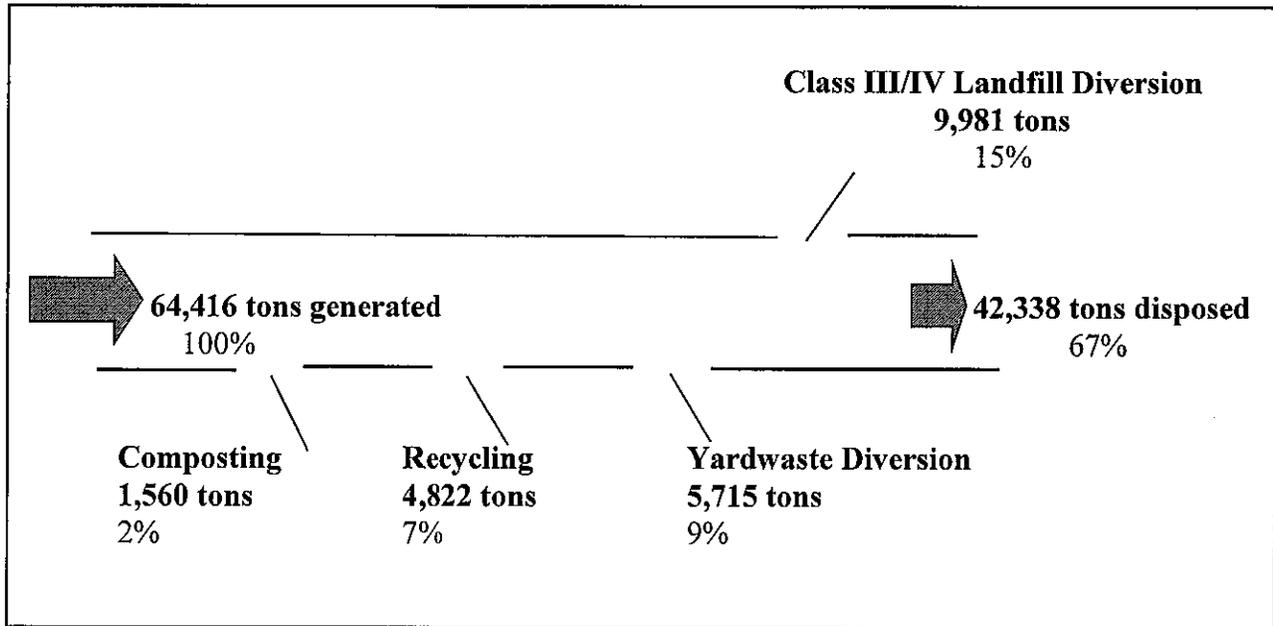
Solid Waste Programs	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Solid Waste Residential Collection											
Putnam County Convenience Center Collection											
Cookeville Curbside Collection											
Monterey Curbside Collection											
Baxter Curbside Collection											
Algood Curbside Collection											
Solid Waste Transport and Disposal											
Putnam County Transfer Station											
Putnam County Disposal Contract		renewal or rebid									
Residential Recycling Collection											
Putnam County Recycling Drop-off Collection											
Cookeville Recycling Drop-off Collection											
Monterey Recycling Drop-off Collection											
Algood Recycling Drop-off Collection											
School and Business Recycling Collection											
Putnam County Recycling Drop-off Collection											
Cookeville Recycling Drop-off Collection											
Recycling Processing and Marketing											
Putnam County Recycling Center (MRF)											
Solid Waste Reduction											
Putnam County Class III/IV Landfill											
Putnam County Yardwaste Mulching											
Cookeville Yardwaste Mulching and Composting											
Problem Waste Collection											
Solid Waste Education											
KAB school and community program											

Note: Shaded area indicates on-going program.

Map of Facilities and Programs

A map of solid waste facility and program locations for the Putnam County Solid Waste Region is provided in the Appendix.

Flow Diagram of Regional Waste Stream



The tonnages presented in the flow diagram above represent figures gathered from the Solid Waste Region of Putnam County in 1999.

Comparison of 1994 Regional Plan and 2000 Regional Revised Plan for the Solid Waste Region of Putnam County

Programs	State Mandate	1994 Regional Plan Existing Efforts	1994 Planned Efforts	2000 Regional Revised Plan Existing Efforts	2000 Planned Effort
Waste Reduction	25% Waste Reduction Goal in the Region	57,000 TPY Generated 3,500 TPY Diverted 6% waste reduction achieved	25% Waste Reduction	49,000 TPY Generated 22,000 TPY Diverted 66% Waste Reduction per capita	Continue
Recycling	One drop-off site in the County for residential recyclables	-Small Recycling Center in Algood -No Drop-offs	-Larger MRF in Cookeville -Drop-offs sites in County	-Putnam County Recycling Center -County, Cities and Business Drop-offs -Cookeville SWP for Composting	Continue
Collection and Transport	# of convenience centers according to population or size of County	-Cities Curbside Collection -County 6 convenience centers -County 5 green box sites -County dumpster equipment at sites	-Cities Curbside Collection -County phase-out green box sites -County permit green box sites to convenience centers -County compaction equipment at sites	-Cities Curbside Collection -County 8 convenience centers -County 1 green box site -County Transfer Station -County compaction equipment at sites	Continue
Disposal	10-year disposal capacity assured by the Region	County Sanitary Landfill	-County permit Class I Landfill -County permit Class III/IV Landfill	-County closed sanitary landfill -County Class III/IV Landfill -Disposal in Rutherford County through BFI contract	Continue
Problem Waste	In the County: -One site for waste oil, batteries, waste tires -Household hazardous waste collection	-1 site for waste oil -Waste fire storage site for shredding	-Waste oil, batteries, auto fluids at Recycling Center and convenience center sites -HHW Collection annually	-Waste oil, batteries, auto fluids at Recycling Center -HHW Collection annually -Waste tires - Option 3 end-use	Continue
Solid Waste Education	Solid Waste Education Action Plan for adults and children in the Region	Some school curriculum	Solid Waste Education Action Plan in the Region	-Solid Waste Education Action Plan -Putnam County Solid Waste and Clean Commission -Putnam County Recycling Center Tours	Continue

PART II

Chapter 2: General Information about the Region

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include demographic information; and a current system analysis, including costs, using a full-cost accounting model; revenues; and adoption of uniform financial accounting systems; and an evaluation of multi-county solid waste disposal Regions with an explanation of the reasons for adopting or failing to adopt a multi-county Regional approach.

1. Putnam County elected to become a single-county solid waste region. The Putnam County Solid Waste Planning Region is comprised of Putnam County and the municipalities of Cookeville, Monterey, Algood, and Baxter.
2. The total population of the Putnam County Planning Region projected for the year 2000 is 60,452 people. The source of information used for this statistic is the "Population Projections for Tennessee Counties and Municipalities 2000-2020," The University of Tennessee, Center for Business and Economic Research, January 1999.
3. There were 9 (nine) members appointed to the Regional Solid Waste Planning Board of Putnam County at the time the Planning Region was formed. Currently, nine Solid Waste Planning Board members serve for the Region of Putnam County. They are :

<u>Name</u>	<u>Term of Office</u>	<u>Expiration Date</u>	<u>Jurisdiction Represented</u>	<u>Year Confirmed</u>
Rick Adkins 6380 Spring Creek Rd. Cookeville, TN 38501	6 years	3/7/06	County	3/00
Bill Walker 512 Maddux Street Cookeville, TN 38501 (931)526-8471	6 years	3/7/06	County	3/00
Joe Trobaugh 7640 Henley Road Baxter, TN 38544 (931)858-6223	6 years	3/7/06	County	3/00
Raymond Bowman 1401 Parragon Road Cookeville, TN 38501 (931)537-6110	4 years	3/7/04	County	3/00
Johnnie Wheeler 1561 Eastlake Drive Cookeville, TN 38501	4 years	3/7/04	County	3/00

Tom Dyer 15 East Broad Street Cookeville, TN 38501 (931)520-5248	4 years	3/7/04	Cookeville	3/00
Andy Honeycutt 1697 Old Walton Rd. Monterey, TN 38574	2 years	3/7/02	Monterey	3/00
Roger Reed P.O. Box 335 Baxter, TN 38544	2 years	3/7/02	Algood	3/00
J.C. Harville 389 Istav North St. Baxter, TN 38544 (931)858-0643	2 years	3/7/02	Baxter	3/00

4. The Planning Region has **not** formed a Part 9 Solid Waste Authority.
5. The following three (3) people can be contacted concerning solid waste information for the Putnam County Solid Waste Planning Region:

<u>Name</u>	<u>Job Title</u>	<u>Address</u>	<u>Phone Number</u>
Doug McBroom	County Executive	300 E. Spring Street Room 8 Cookeville, TN 38501	(931) 526-2161
Keith Street	County Solid Director	Recycling Center 1846 S. Jefferson Cookeville, TN 38506	(931) 528-3884
Jennifer Wilson	Assistant Director	Recycling Center 1846 S. Jefferson Cookeville, TN 38506	(931) 528-3884

6. The Putnam County Solid Waste Planning Board meets as needed to develop additional programs to meet the needs of citizens and requirements of state and federal laws. The Board assigns responsibility to prepare and submit the Annual Progress Reports and Solid Waste Plans to the County Solid Waste Director. The Board meets its responsibility with regard to permit review as needed.
7. Putnam County elected to form a single-county solid waste region in order to directly protect the interests of its citizens.

8. The municipalities that have door-to-door solid waste collection services are:

<u>Municipality</u>	<u>County</u>	<u>1998 Population</u>
Cookeville	Putnam	26,800
Monterey	Putnam	2,880
Algood	Putnam	2,990
Baxter	Putnam	1,450

Source: Putnam County Solid Waste Needs Assessment, UCDD May 1999.

9. Putnam County is a single-county solid waste region for the purposes of developing its Solid Waste Regional Plan. There are four (4) municipalities in the County: Cookeville, Monterey, Algood, and Baxter. Putnam County occupies 401 square miles of land in the Cumberland Plateau area of East-Central Tennessee. This area is bound to the east by the Cumberland Plateau and the west by the Central Basin, is relatively flat to gently rolling. The area is also marked by a much dissected escarpment that rises from the rolling lowland area of the Central Basin. The County also has several lakes available for recreational use, such as Center Hill Lake and Monterey Lake. The County is also home to the Burgess Falls State Natural Area and Tennessee Technological University. The primary land uses of the Region include residential, industrial, managed park land, and farmland.

Based on the projected census data prepared by the UT-Center for Business and Economic Research, January 1999, Putnam County's population is 60,452.

10. The jurisdictions within the Putnam County Solid Waste Region charge the following fees for service:

<u>Jurisdiction</u>	<u>Solid Waste Service</u>	<u>Type</u>	<u>Fee Amount</u>	<u>Authorized/Collected By</u>	<u>How Collected</u>	<u>How Often</u>
Putnam County	Garbage Transport & Disposal	Residential & Commercial	\$40/ton	County	Transfer Station Tipping Fee	At disposal
Putnam County	Class III/IV Diversion	Residential & Commercial	\$30/ton	County	Tipping Fee	At disposal
Cookeville	Garbage Collection	Residential	Collection: \$9.12/2cu.yd. \$9.12/4cu.yd. \$12.42/6cu.yd. \$15.54/8cu.yd.	City	Property Tax	Annually
		Commercial		City	Invoiced Billing	Monthly
	Rental		Rental: \$16.20/month/2cu.yd. \$16.20/month/4cu.yd. \$19.80/month/6cu.yd. \$23.40/month/8cu.yd.			
	Recycling Collection	Commercial	\$7.80/pick-up	City	Invoiced Billing	Monthly
Monterey	Collection	Residential	\$5.55/month	City	Water Bill	Monthly
		Commercial	\$13.50/1 pickup \$27.00/2 pickups \$105.00/3 pickups	City	Invoiced Billing	Monthly
Algood	Collection	Residential Commercial	\$10.00/1 pickup	City City	Property Tax Invoiced Billing	Annually Monthly
Baxter	Collection	Residential		City	Property Tax	Annually
		Commercial		City	Property Tax	Annually

11. Generally, a combination of revenue sources are used to cover an allocation of costs for solid waste services in the Region. The proposed 10-year solid waste budget for the Region of Putnam County in the Appendix, indicates that the current system of funding is satisfactory for all jurisdictions. Revenues are meeting the costs of each jurisdiction.
12. All jurisdictions currently account for solid waste activities in designated special revenue funds for collection and disposal.
13. A proposed 10-year solid waste budget for the Putnam County Solid Waste Region is provided in the Appendix.
14. Contacts for information regarding solid waste budgets in the Region are:

<u>Jurisdiction</u>	<u>Contact</u>	<u>Title</u>	<u>Phone Number</u>
County	Debby Francis	Finance Director	931-526-2161
Cookeville	Stephanie Miller	Finance Director	931-526-9591
Monterey	Ken Wiggins	City Recorder	931-839-2323
Baxter	Glenda Burgess	City Recorder	931-858-4111
Algood	Elise West	City Recorder	931-537-9545

Chapter 3: Waste Stream

Statutory Authority (edited) - T.C.A. 68-211-815 (b):

Each plan shall include a current system analysis, including waste streams, with data concerning types and amounts generated; anticipated growth trends for the next ten-year period; a description of waste reduction activities designed to attain the 25% reduction and diversion required by T.C.A. 68-211-861; and, a description of the responsibilities of various participating jurisdictions.

The goal of the state is that each municipal solid waste planning Region must have reduced by 25% the amount of waste disposed annually per capita in Class I landfills and incinerators in 1995 by 2003 (T.C.A. 68-211-861).

1. For calendar year 1999, there were 42,338.38 tons/day^{yr} disposed and 64,416.05 tons/day^{yr} generated in the Putnam County Solid Waste Region. ←

2. Percentage of tons reported in #1 above are as follows:

<u>Category</u>	<u>Annual Tons</u>	1994 Plan <u>% Tons</u>	Needs Assess. <u>% Tons</u>
Residential	19,324.82	30%	50%
Commercial	12,883.21	20%	25%
Industrial	19,324.81	30%	20%
Institutional	12,883.21	20%	5%
Other	<u>0%</u>	<u>1%</u>	
	64,416.05	100%	100%

3. The percentage of tons reported in #1 above are represented in the following categories:

<u>Category</u>	<u>Annual Tons</u>	<u>% Tons</u>
Yard waste	7,274.85	11%
C&D waste	9,981.21	15%
Tires	230.2	0%
Recyclables	4,591.41	7%
White goods		
MSW	<u>42,338.38</u>	<u>67%</u>
	64,416.05	100%

4. The total generated waste stream for 1999 in the Solid Waste Region of Putnam County is presented below.

<u>Category</u>	<u>Annual Tons</u>	<u>% of Total Tons Generated</u>
Source reduction	?	
Recycling	12,096.46	19%
Diversion to Class III/IV landfill	9,981.21	15%
Unmanaged waste	?	
Total Tons	22,077.67	34%

Total Tons (above) + Total Tons Disposed = Total Tons Generated
22,077.67 tons + 42,338.38 tons = 64,416.05 tons generated

347%

Recycling tonnages were gathered from the 1999 Annual Progress Report, including yard waste diversion, composting, and recycling. Diversion to Class III/IV landfill tonnages were also gathered from the 1999 Annual Progress Report. This figure represents the 1999 tonnages accepted at the Putnam County Class III/IV Landfill.

In order to determine what percentage the Region achieved toward the state mandated waste reduction goal, the waste reduction formula must be calculated.

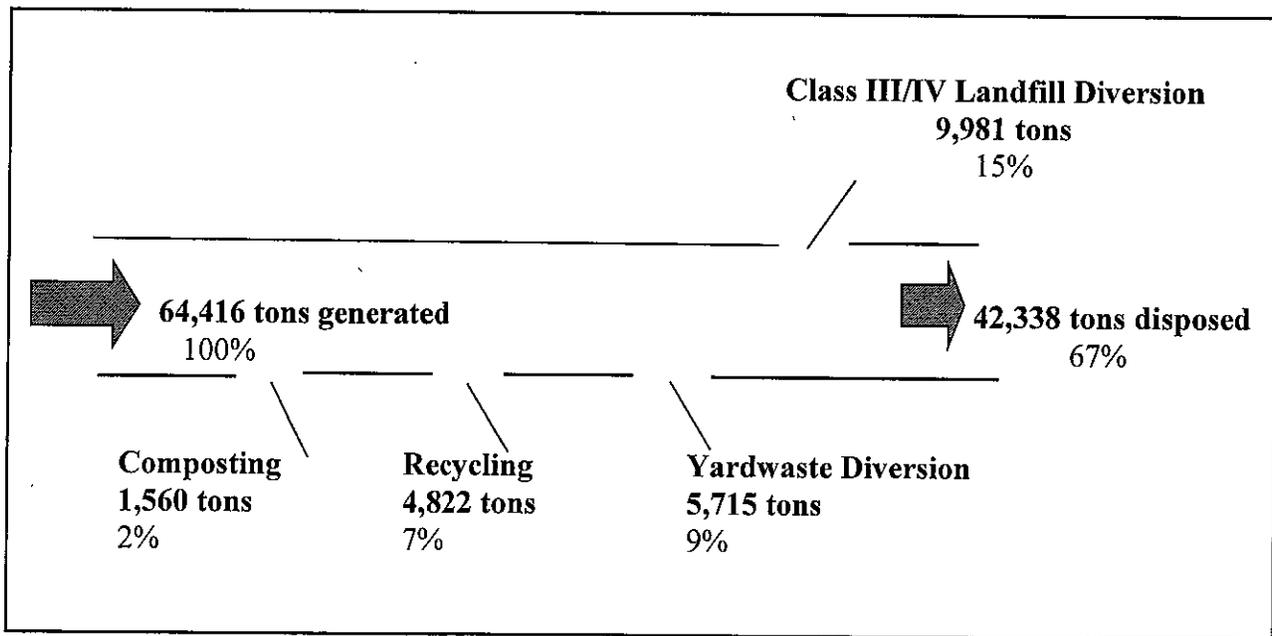
The municipal solid waste percent reduction calculation formula, as adopted by the Solid Waste Advisory Committee, is presented below.

- A. $\frac{\text{Current Year Population}}{\text{Base Year Population}} = \text{Population Ratio}$
- B. $\frac{\text{Current Year Tons Disposed}}{\text{Population Ratio}} = \text{Current Year Adjusted Tons}$
- C. $\frac{\text{Base Year Tons} - \text{Current Year Adjusted Tons}}{\text{Base Year Tons}} \times 100 = \text{\% Reduction of MSW Disposed in Current Year compared to 1995 Base Year}$

Using the Regions numbers in the equations above, the reduction goal for the Region of Putnam County is calculated below:

- A. $\frac{59,735 \text{ (1999 Census Population)}}{56,279 \text{ (1995 Census Population)}} = 1.06 \text{ Population Ratio}$
- B. $\frac{42,338 \text{ (1999 Tons Disposed)}}{1.06 \text{ Population Ratio}} = 39,942 \text{ (1999 Adjusted Tons)}$
- C. $\frac{116,014 \text{ (1995 Base Year Tons)} - 39,942 \text{ (1999 Adjusted Tons)}}{116,014 \text{ (1995 Base Year Tons)}} \times 100 = 66\% \text{ Reduction of MSW Disposed in 1999 from 1995}$

Proportional Waste Flow Diagram



- 5 There are several demographic trends that affect waste generation and disposal figures in the Region. The first is the overall increase in total population in Putnam County and its cities. During the period 1980 to 1990, the total population of the County and its cities grew by 7.7%. From 1990 to 2000 the population has grown 15%.

Tennessee Technological University and the employment population of surrounding counties toward Putnam County, however causes the waste generation rates to increase faster than the total population rate.

6. Due to a steady increase in population, there is also an increase in economic activity. It is anticipated that a growth rate of 3.5% will continue for the next ten years.
7. The top four (4) contributors to the overall waste stream generated in the Putnam County Solid Waste Region disposed in a Class I landfill are:

<u>Contributor's Name</u>	<u>Contact Name</u>	<u>Phone Number</u>	<u>Waste Types</u>	<u>TPY</u>
Tennessee Technological University	Judy Hull	(931)372-3242	Institutional	NA
TRW Vehicle Safety Systems	Glen Wilkins	(931)528-3611	Industrial	NA
Fleetguard Inc.	Angelo Fernandez	(931)526-9551	Industrial	1,500
City of Cookeville	Tom Dyer	(931)526-9591	Residential Commercial Industrial	35,000
Faye Portable Bldg.	Steven Faye	(931) _____	Construction Demolition	NA

Tonnages per year for each of the major contributor listed are presently undetermined at this time. Only approximation are presented where listed.

8. The Solid Waste Region of Putnam County has a litter prevention program in place through the Tennessee Department of Transportation's litter grant program. The administration of the litter prevention program is operated from the County Executive's office. The Putnam County Sheriff's Department provides the transportation of inmates to designated clean-up sites for litter pick-up. The litter program also contributes funds to the Putnam County Solid Waste and Clean Commission (KAB) for educational efforts in the County.
9. The economic growth adjustment formula which includes factors like growth rate, employment rates, taxable transactions, and population changes for the Solid Waste Region of Putnam County does not appear to enhance the reduction goal in a more equitable fashion for 1999 than by using the method of population ratio.
10. The proposed base year change for the Solid Waste Region of Putnam County will give the Region an opportunity to gauge waste generation growth beyond population growth in the future, however.

11. The Solid Waste Region of Putnam County consists of Putnam County, and the cities of Cookeville, Monterey, Baxter and Algood. A table displaying each jurisdiction's waste reduction efforts follows.

Jurisdiction	Waste Reduction Programs	Funding	Materials Collected	Amounts Collected	Proposed Programs
Putnam County	Recycling Drop-offs at Convenience Centers	Property taxes, grants	paper, cardboard, plastic, tin cans, aluminum cans, glass	aggregated at MRF	none
	Material Recovery Facility	same	same	4,821.61 tons	
	Yardwaste Mulching Program	same	yardwaste mulched and given free to residents	3,179.85 tons	
	Cardboard and paper collection with business and schools	same	cardboard, paper	aggregated at MRF	
Cookeville	Recycling Drop-offs at 4 City locations	Property taxes	paper, cardboard, plastic, tins cans, aluminum cans, glass	aggregated at MRF	none
	Cardboard collection at businesses in the City	Collection fee-\$7.80/pick-up	cardboard	same	
Monterey	Recycling Drop-off at 1 City location	Property taxes	paper, plastic, cans, glass	aggregated at MRF	none
Baxter	none				none
Algood	School Cardboard Collection	Property taxes	cardboard	aggregated at MRF	none

Solid Waste Educational Efforts in the Region are presented below.

Program	Focus of Program	Duration of Program	Point of Contact
Adopt-A-Street (18 organizations)	Public, Civic, Business	All programs are on-going and annually provided.	Kim Sells KAB Coordinator P.O. Box 299 Cookeville, TN 38503 (931) 528-1180
HHW Collection Event	Public, Civic, Business		
Litter-Free Events (4)	Public		
Great America Clean-Up	Public, Civic, Business		
School Presentations	Schools (K-12)		
Beautification	Public, Civic, Business		
Business/Industry Presentations	Business		
KAB Property Awards	Public, Business		
Songs and Art for Earth	Elementary Schools		
Business Expo Exhibits	Business		
Public Service Announcements	Public, Media		
Newspaper Articles ("Litter Box," Community Calendar)	Public		
Board of Directors Training (2)	Civic, Government		
Tennessee Technological University – Water Department Nonpoint Source Pollution Prevention	Schools, Public		
Earth Day	Public, Business, Schools, Civic, Government		
Recycling Center Tours	Public, Business, Schools, Civic, Government		

Chapter 4: Collection and Transportation

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a current system analysis, including collection capability, with data describing the different types of collection systems and the populations and areas which receive and do not receive such services.

Each county shall assure that one or more collection systems is available to meet the needs of the residents of the county (T.C.A. 68-211-851(a)).

1. Collection services available in the Solid Waste Region of Putnam County are given below.

Service	Available to	Paid for by	Description
Convenience Centers	Putnam County residents	Putnam County property tax	8 centers located throughout the County
Transfer Station	County and Cities	Tipping Fees	1846 S. Jefferson Street Cookeville, TN
Green Box Site	Putnam County residents	Putnam County property tax	1 site in Buffalo Valley Community
Curbside Garbage Collection	Cookeville residents	Cookeville	Cookeville provides curbside garbage collection to all residents
Curbside Garbage Collection	Monterey residents	Monterey	Monterey provides curbside garbage collection to all residents
Curbside Garbage Collection	Baxter residents	Baxter	Baxter provides curbside garbage collection to all residents
Curbside Garbage Collection	Algood residents	Algood	Algood provides curbside garbage collection to all residents
Private Haulers	Commercial businesses	Commercial businesses	BFI, Fay Disposal, and WMI
Private Haulers	Local residents	Local residents	Wheeler, Andrews and others.

2. Putnam County meets the collection assurance requirements in the Region by providing nine (9) convenience center sites throughout the County.

3. Putnam County and its municipalities have exceeded the minimum collection assurance requirements and have reached the state 25% waste reduction goal for the year 1999. The solid waste management system in the Region is addressing the solid waste collection needs of residents, businesses and institutions of Putnam County, Cookeville, Monterey, Baxter and Algood.

Chapter 5: Recycling

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a recycling plan, including a description of current public and private recycling efforts and planned efforts to enhance recycling with the county or Region.

If collection sites are not available, each county must provide at least one collection site for recyclables (T.C.A. 68-211-863).

1. The Solid Waste Region of Putnam County does not have a recycling coordinator. Each jurisdiction in the Region that operates a recycling collection program, has the appropriate staff to administer their system.

The following people can be contacted in each jurisdiction that operates a recycling program:

<u>Name</u>	<u>Job Title</u>	<u>Address</u>	<u>Phone Number</u>
Keith Street	County Solid Director	Recycling Center 1846 S. Jefferson Cookeville, TN 38506	(931) 528-3884
Jennifer Wilson	Assistant Director	Recycling Center 1846 S. Jefferson Cookeville, TN 38506	(931) 528-3884
Tom Dyer	Cookeville Sanitation Supervisor	45 East Broad St. Cookeville, TN 38501	(931) 526-9591
Benny Buckner	Monterey Solid Waste Manager	P.O. Box 97 Monterey, TN 38574	(931) 839-2323
Richard Norton	Algood Principal	108 East Main Street Algood, TN 38506	(931) 537-9545

2. Waste Reduction Programs in the Region are presented below.

Program Name	Jurisdiction Public/Private	Contact	Phone number	Address	Who served	Type
Residential Drop-off	Putnam County Public	Keith Street	(931) 528-3884	1846 S. Jefferson St. Cookeville, TN 38506	Putnam County residents	Eight (8) Convenience Center Sites
Putnam County Recycling Center	Putnam County Public	same	same	same	Putnam County and City residents and businesses	Material Recovery Facility
Business and School Drop-off	Putnam County Public	same	same	same	County businesses and area schools	Roll-off containers in lots
Class III/IV Landfill	Putnam County Public	same	same	same	County and City residents and businesses	Class III/IV landfill
Brush Mulching	Putnam County Public	same	same	same	Putnam County residents	Yardwaste mulching free to residents
Residential Drop-off	Cookeville Public	Tom Dyer	(931) 526-9591	45 East Broad Street Cookeville, TN 38501	Cookeville residents	Four (4) unmanned sites in the City
Business Drop-off	Cookeville Public	same	same	same	Cookeville businesses	Roll-off containers in lots
Brush Mulching	Cookeville Public	same	same	same	Cookeville residents	Yardwaste mulching free to residents
Composting	Cookeville Public	same	same	same	Cookeville residents	Compost yardwaste free to residents
Drop-off	Monterey Public	Benny Buckner	(931) 839-2323	P.O. Box 97 Monterey, TN 38574	Monterey residents and businesses	Roll-off container at City Hall
School Drop-off	Algood Public	Richard Norton	(931)537-9545	Algood School East Main Street Algood, TN 38506	Algood school	Roll-off container at school

Material Recovery and Composting Facilities in the Region are presented below.

Facility	Owner	Contact	Types of Materials	Volume Annually	Description of Process
Putnam County Recycling Center (MRF)	Putnam County	Keith Street	Newspaper, office paper, mixed paper, cardboard, tin cans, glass, aluminum cans, plastic containers, oil, tires, plastic bags, yardwaste	12,096.46 tons in 1999	Recyclables brought to center for processing and marketing. Processing method for most materials is baling. Marketing to end-users. Transported by tractor trailer.
Cookeville Solid Waste Process Facility (composting)	Cookeville	Tom Dyer	Leaves and brush	1,560 tons in 1999	Leaf vacuum collects material along residential route. Material brought to facility, piled, turned and cured. Given to residents free.

- Reduction efforts in the Region appear to be aggressive for the County and City of Cookeville. Marketing at the Putnam County MRF for recyclable materials is stable. All jurisdictions collecting recyclable material in the Region transport the material to the County MRF for processing and marketing services. The County also accepts recyclables from White County (plastic, newspaper and cardboard). The County does not charge a tipping fee for processing and marketing.

4. Recycling Collection Sites in Putnam County and Cities are presented in the table below.

Site Name	Jurisdiction	Items Collected	Description
Bangham Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Bloomington Springs Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Brotherton Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Dacco Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Ditty Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Gentry Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Monterey Convenience Center Site	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Silver Point Convenience Center	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Putnam County Landfill (closed)	Putnam County	Paper, plastic, cans, glass, oil	Drop-off
Putnam County Recycling Center	Putnam County	Newspaper, office paper, mixed paper, cardboard, tin cans, glass, aluminum cans, plastic containers, oil, tires, plastic bags, yardwaste	Drop-off, MRF
Monterey Recycling Collection Site	Monterey	Paper, plastic, cans, glass	Drop-off at City Hall
Algood Recycling Collection Site	Algood	Cardboard	Drop-off at Algood School
Cookeville Recycling Collection Site	Cookeville	Cardboard, newspaper, plastic, cans, glass	Drop-off at Tractor Supply
Cookeville Recycling Collection Site	Cookeville	Cardboard, newspaper, plastic, cans, glass	Drop-off at Lowe's
Cookeville Recycling Collection Site	Cookeville	Newspaper, plastic, cans	Drop-off at Village Center
Cookeville Recycling Collection Site	Cookeville	Cardboard, newspaper, plastic, cans, glass	Drop-off at Solid Waste Processing Facility

Chapter 6: Disposal

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall provide a current system analysis, including disposal capacity, with an analysis of the remaining life expectancy of landfills or other disposal facilities; anticipated needs; planned capacity assurance; and descriptions of planned or needed facilities.

Each county shall assure that one or more disposal systems is available to meet the needs of the residents of the county (T.C.A. 68-211-851(a)).

1. Disposal Facilities in the Region are presented in the table that follows.

Information	Class III/IV Landfill	Transfer Station
Name of Facility	Putnam County Class III/IV Landfill	Putnam County Recycling Center
Owner	Putnam County	Putnam County
Operator/Contact	Danny Roberts Construction, Inc.	Keith Street
Phone Number	(931) 858-3343	(931) 528-3884
Address	11089 Cookeville Boat Dock Road Baxter, TN 38544	1846 S. Jefferson St. Cookeville, TN 38501
Classification	Class III/IV Landfill	Uncompacted waste in open-top transfer trailer
Jurisdiction Served	County and Cities	County and Cities
Permit Number	DML710000068	
Tipping fee per ton	\$30	\$40
Materials Received/Limits	Class III/IV waste (waste oil collection container; recyclables collection container for cardboard and metals; msw collection)	Municipal Solid Waste
WTE	No	No
Where Transferred		BFI Middlepoint Class I Landfill in Rutherford County, TN

2. Class I Solid Waste Exported in the Region is presented in the table below.

Exported To (County)	Exported To (Address)	Tonnage Annually
Rutherford County, TN	BFI Middlepoint Class I Landfill in Rutherford County 750 E. Jefferson Pike Murfreesboro, TN	42,338.38 tons in 1999

3. Disposal for the Region is assured through contract with Putnam County and the BFI Middlepoint Class I Landfill in Rutherford, TN. The contract period is for 5 years for \$40/ton. No immediate changes for the existing disposal arrangement is planned for the Solid Waste Region. The contract was signed in 1996 and will either be renewed for an additional 5 years, or Putnam County will rebid disposal services at that time.
4. The BFI Middlepoint Class I Landfill in Rutherford County, TN has a disposal capacity of approximately 10 years according to the 1999 Remaining Life Survey prepared by the Tennessee Department of Environment and Conservation, Division of Solid Waste Management.
5. There are no Class I landfills operating in the Putnam County Solid Waste Planning Region.

Chapter 7: Problem Wastes

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a strategy for the disposal of household hazardous waste, waste tires, used automobile fluids, lead acid batteries and used oil.

Each county must provide either directly or through contract, at least one collection site for waste tires, used automotive fluids, lead acid batteries, and used oil (T.C.A. 68-211-866(b)).

1. Household Hazardous Waste Mobile Collection Service events occur once annually in Putnam County at the County Fairgrounds. The KAB Coordinator provides program support for the event.
2. There are no permanent household hazardous waste collection centers in Putnam County.
3. The household hazardous waste collection events held in Putnam County each year are received well by the public. There are numerous phone calls in the KAB office requesting more collection events throughout the year. There are no immediate plans to support a local household hazardous waste center in Putnam County.
4. Waste Tire Collection is provided at the Putnam County Recycling Center. Waste tires collected are shipped by roll-off truck to Smith County for processing and end-use under Option 3 of the State Waste Tire Collection Program.
5. Satisfaction with the waste tire collection program provided by the State is average for Putnam County. More funds are needed to cover the transport and processing costs of waste tires. Additional beneficial end-use options are needed to provide a variety of markets for waste tires.
6. Waste Tire Dumping is a minimal problem in the Solid Waste Region of Putnam County.
7. Waste Oil Collection and Lead Acid Batteries are collected at the Putnam County Recycling Center. Waste Oil Collection is also provided at the County convenience center sites and the Putnam County Class III/IV Landfill.

Chapter 8: Solid Waste Education

Statutory Authority (edited) - T.C.A. 68-211-815(b):

Each plan shall include a description of education initiatives aimed at businesses, industries, schools, citizens and others, which addresses recycling, waste reduction, collection and other goals of the Solid Waste Management Act of 1991.

1. Solid Waste Educational Efforts in the Region are presented in the table below.

Program	Focus of Program	Duration of Program	Point of Contact
Adopt-A-Street (18 organizations)	Public, Civic, Business	All programs are on-going and annually provided.	Kim Sells KAB Coordinator P.O. Box 299 Cookeville, TN 38503 (931) 528-1180
HHW Collection Event	Public, Civic, Business		
Litter-Free Events (4)	Public		
Great America Clean-Up	Public, Civic, Business		
School Presentations	Schools (K-12)		
Beautification	Public, Civic, Business		
Business/Industry Presentations	Business		
KAB Property Awards	Public, Business		
Songs and Art for Earth	Elementary Schools		
Business Expo Exhibits	Business		
Public Service Announcements	Public, Media		
Newspaper Articles ("Litter Box," Community Calendar)	Public		
Board of Directors Training (2)	Civic, Government		
Tennessee Technological University – Water Department Nonpoint Source Pollution Prevention	Schools, Public		
Earth Day	Public, Business, Schools, Civic, Government		
Recycling Center Tours	Public, Business, Schools, Civic, Government	Jennifer Wilson Assistant Director Putnam County Recycling Center 1846 S. Jefferson Ave. Cookeville, TN 38506	

2. Solid waste education needs to include more opportunities for programs geared toward local elected officials. Solid Waste Breakfast Workshops with public officials and staff are planned by the KAB Coordinator. Other needs to consider are additional funding sources for continued and expanded solid waste education efforts.

The Solid Waste Region of Putnam County has filed an education action plan with TDEC, DCA.

Chapter 9: Flow Control and Permit Review

Statutory Authority (edited) - T.C.A. 68-211-814:

The Solid Waste Management Act grants Regional Solid Waste Boards certain rights and responsibilities with regard to controlling the flow of waste and the review of permits for potential new solid waste facilities in the Region.

1. Flow control in the Solid Waste Region of Putnam County consists of accepting only waste generated in the County and its cities at the Putnam County Transfer Station.
2. There are no outstanding issues with regard to flow control and permit review for the Solid Waste Region of Putnam County.

Chapter 10: Five Year Plan Update Review

Statutory Authority (edited) - T.C.A. 68-211-815(b)(15):

The plan should include certification that the county legislative body has reviewed and approved the Region's plan or Five-Year Update.

Before submitting a plan, each solid waste Region shall hold a public hearing on the revised plan.

1. The public hearing to approve the Revised Plan for the Solid Waste Region of Putnam County was held on May 15, 2000 at 5:30 p.m. The meeting was held at the Putnam County Courthouse. The level of participation is reflected in the sign-in sheet provided in the Appendix. A copy of the public notice for the hearing is also provided in the Appendix. The substance of the meeting and comments made are reflected in the attached minutes from the Regional Solid Waste Committee Meeting.
2. The local planning commission serving Putnam County was provided a copy of the revised plan on May 15, 2000 and asked to review the plan for comment. A copy of the cover letter from the Solid Waste Board is in the Appendix.
3. A copy of minutes approving the Revised Plan for the Solid Waste Region of Putnam County is provided in the Appendix.

APPENDIX

Contents:

Facility and Program Map

Putnam County Solid Waste Budget for fiscal 1999/2000

Cookeville Solid Waste Budget for fiscal 1999/2000

Monterey Solid Waste Budget for fiscal 1999/2000

Baxter Solid Waste Budget for fiscal 1999/2000

Algood Solid Waste Budget for fiscal 1999/2000

Proposed 10-year Solid Waste Budget for the Region of Putnam County

Public Hearing Sign-in Sheet

Public Hearing Notice

Regional Solid Waste Committee Public Hearing Meeting Minutes

Local Planning Commission Review Cover Letter

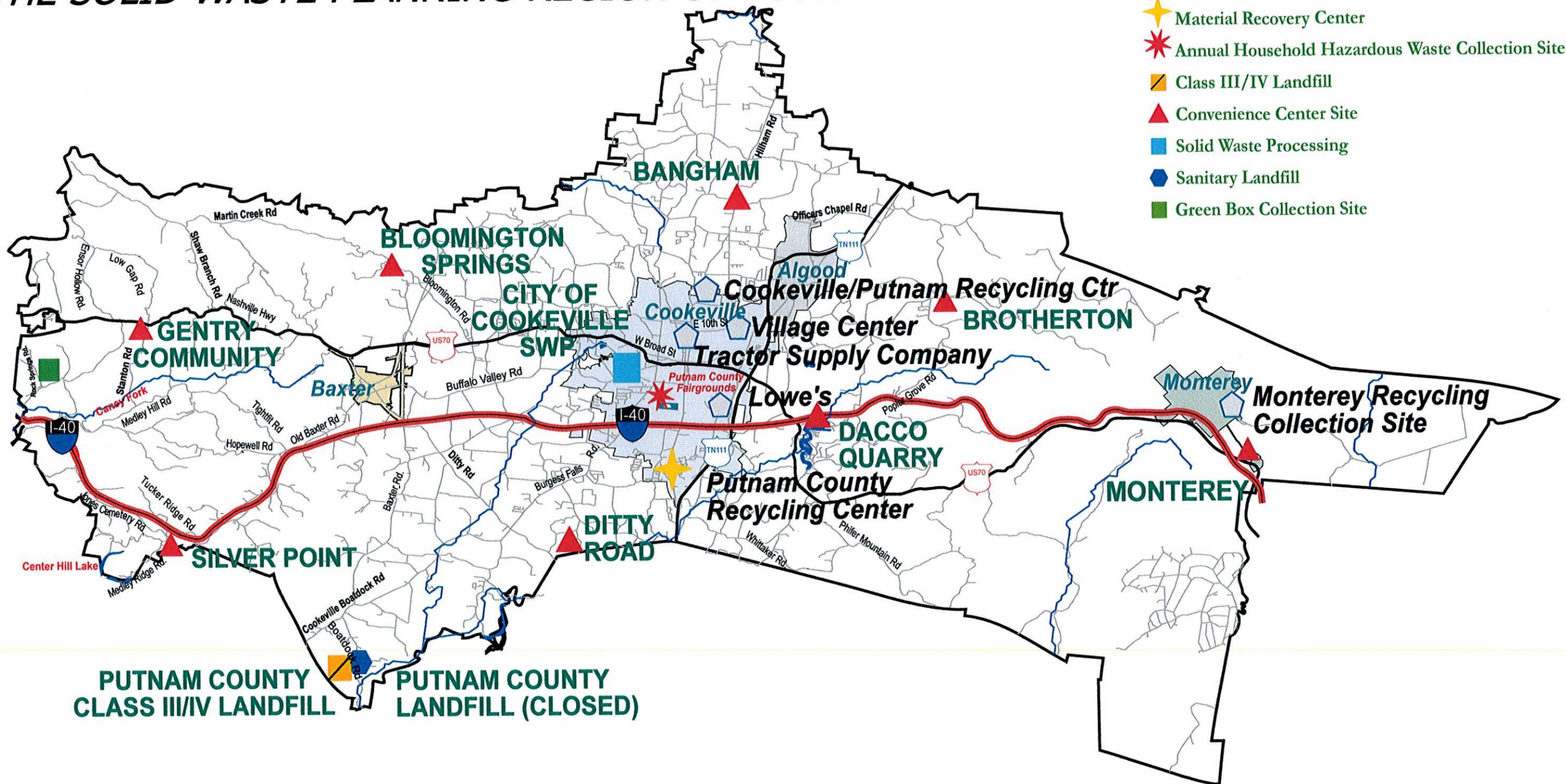
Putnam County Commission Meeting Resolution Forming Single-County Solid Waste
Region and Ratifying Solid Waste Plan

Putnam County Commission Meeting Motion approving the Regional Solid Waste Board

Putnam County Commission Meeting Resolution approving the Revised 10-Year Plan

SOLID WASTE FACILITIES AND PROGRAMS IN THE SOLID WASTE PLANNING REGION OF PUTNAM COUNTY

-  Recycling Collection Site
-  Material Recovery Center
-  Annual Household Hazardous Waste Collection Site
-  Class III/IV Landfill
-  Convenience Center Site
-  Solid Waste Processing
-  Sanitary Landfill
-  Green Box Collection Site



SOLID WASTE SANITATION FUND

<u>Account Number</u>		<u>Actual 1997-98</u>	<u>Estimated 1998-99</u>	<u>Estimated 1999-2000</u>
40000	<u>LOCAL TAXES</u>			
110	Current Property Tax (26 cents)	1,935,636	1,637,780	1,731,938
120	Trustee Collections-Prior Year	36,657	56,468	14,000
130	Circuit Clk/Clerk & Master Coll. Prior	17,009	29,554	12,000
140	Interest & Penalty	7,609	9,762	5,000
161	Payments in Lieu of Taxes-TVA	137	114	0
320	Bank Excise Tax	<u>26,999</u>	<u>26,117</u>	<u>20,000</u>
	TOTAL LOCAL TAXES	<u>2,024,047</u>	<u>1,759,795</u>	<u>1,782,938</u>
43000	<u>CHARGES FOR CURRENT SERVICE</u>			
110	Tipping Fees	<u>355,287</u>	<u>438,680</u>	<u>400,000</u>
	TOTAL CHARGES FOR CURRENT SERVICES	<u>355,287</u>	<u>438,680</u>	<u>400,000</u>
44000	<u>OTHER LOCAL REVENUES</u>			
145	Sale of Recycled Materials	210,485	77,986	200,000
170	Miscellaneous Refunds	34,522	5,367	0
990	Other Local Revenue	<u>39,948</u>	<u>39,952</u>	<u>35,000</u>
	TOTAL OTHER LOCAL REVENUES	<u>284,955</u>	<u>123,305</u>	<u>235,000</u>
46000	<u>STATE OF TENNESSEE</u>			
980	Other State Grants	<u>15,731</u>	<u>25,970</u>	<u>0</u>
	TOTAL STATE OF TENNESSEE	<u>15,731</u>	<u>25,970</u>	<u>0</u>
49000	<u>OTHER SOURCES</u>			
200	Note Proceeds	0	2,060,000	0
800	Operating Transfers (County General Fund)	<u>575,000</u>	<u>507,000</u>	<u>0</u>
	TOTAL OTHER SOURCES	<u>575,000</u>	<u>2,567,000</u>	<u>0</u>
	TOTAL REVENUES	<u>3,255,020</u>	<u>4,914,750</u>	<u>2,417,938</u>

**Putnam County, Tennessee
Statement of Revenues and Available Funds
For the Fiscal Year Ending June 30, 2000**

SOLID WASTE SANITATION FUND

<u>Account Number</u>		<u>Actual 1997-98</u>	<u>Estimated 1998-99</u>	<u>Estimated 1999-2000</u>
55710	<u>SANITATION MANAGEMENT</u>			
105	Supervisor/Director	31,827	32,782	33,502
164	Attendants	86,326	91,510	98,291
187	Overtime	14,778	18,000	18,000
189	Other Salaries & Wages	201,522	211,352	245,981
299	Other Fringe Benefits	82,954	86,439	98,590
307	Communication	11,592	13,881	14,000
321	Engineering Services	17,009	0	5,000
333	Licenses	0	40	2,000
335	Maintenance & Repair Services (Bldgs)	10,485	6,403	8,000
336	Maintenance & Repair Services (Equip)	32,555	38,481	40,000
338	Maintenance & Repair Services (Vehicles)	82,746	105,104	110,000
351	Rentals	29,601	13,455	0
355	Travel	1,535	1,919	3,700
359	Disposal Fees (BFI)	1,183,110	1,244,157	1,236,000
361	Permits	263	263	300
399	Other Contracted Services	160,635	160,000	160,000
409	Crushed Stone	15,153	6,707	16,000
425	Gasoline	15,972	12,967	22,000
435	Office Supplies	2,553	2,896	3,000
452	Utilities	21,267	26,442	30,000
517	Surcharge	9,750	0	0
599	Other Charges	22,009	21,957	22,500
718	Motor Vehicles (purchase every other year)	75,000	75,000	75,000
733	Solid Waste Equipment	5,485	66,350	192,300
791	Other Construction	6,242	562	40,000
799	Other Capital Outlay	<u>73,308</u>	<u>0</u>	<u>0</u>
	TOTAL SANITATION MANAGEMENT	<u>2,193,677</u>	<u>2,236,667</u>	<u>2,474,164</u>

Putnam County, Tennessee
Statement of Revenues and Available Funds
For the Fiscal Year Ending June 30, 2000

SOLID WASTE SANITATION FUND

Account Number		Actual 1997-98	Estimated 1998-99	Estimated 1999-2000
55751	<u>RECYCLING CENTER</u>			
791	Other Construction	2,710	637,386	0
	TOTAL RECYCLING CENTER	2,710	637,386	0
55754	<u>LANDFILL MAINTENANCE</u> (Superfund)			
321	Engineering Services	101,797	53,325	24,200
599	Other Charges	0	2,533	0
791	Other Construction	0	1,060,000	51,400
	TOTAL LANDFILL MAINTENANCE	101,797	1,115,858	75,600
55770	<u>POSTCLOSURE CARE COSTS</u>			
321	Engineering Services	0	45,158	20,000
399	Other Contracted Services	523,066	620,000	101,336
791	Other Construction (Ponds & Geo Liner & Dirt)	0	507,000	0
	TOTAL POSTCLOSURE CARE COSTS	523,066	1,172,158	121,336
58900	<u>MISCELLANEOUS</u>			
510	Trustee Commission	45,316	39,295	42,000
	TOTAL MISCELLANEOUS	45,316	39,295	42,000
	TOTAL EXPENDITURES	2,866,566	5,201,364	2,713,100
	OTHER USES			
	<u>DEBT SERVICE</u>			
81100	<u>SOLID WASTE DEBT SERVICE</u>			
602	Principal on Notes	134,234	134,234	0
604	Interest on Notes	31,500	43,767	0
	TOTAL SOLID WASTE DEBT SERVICE	165,734	178,001	0

**Putnam County, Tennessee
Statement of Revenues and Available Funds
For the Fiscal Year Ending June 30, 2000**

SOLID WASTE SANITATION FUND

<u>Account Number</u>	<u>Actual 1997-98</u>	<u>Estimated 1998-99</u>	<u>Estimated 1999-2000</u>
TOTAL EXPENDITURES & OTHER USES & DEBT SERVICE	<u>3,032,300</u>	<u>5,379,365</u>	<u>2,713,100</u>
Excess of Revenue & Other Sources Over (Under) Expenditures	<u>222,720</u>	<u>(464,615)</u>	<u>(295,162)</u>
Beginning Fund Balance-July 1	<u>739,261</u>	<u>961,981</u>	<u>497,366</u>
Ending Fund Balance-June 30	<u>961,981</u>	<u>497,366</u>	<u>202,204</u>

123 SANITATION FUND
DEPARTMENT OF PUBLIC WORKS
STATEMENT OF ESTIMATED REVENUE AND PROPOSED EXPENDITURES
FOR THE FISCAL YEAR ENDING JUNE 30, 2000

ACCOUNT NUMBER FUNCTION OBJECT	FUND #123 Account Description	Actual Fiscal Yr. 1998	Budget Fiscal Yr. 1999	Estimated Fiscal Yr. 1999	Proposed Fiscal Yr. 2000
LOCAL TAXES					
31111	PROPERTY TAX (CURRENT YEAR)	102,946	0	0	0
31211	DELINQ PROP TAX - CC (1ST PRIOR YR)	2,381	0	1,590	0
31212	DELINQ PROP TAX - CLERK & MASTER	1,293	0	470	0
31320	INTEREST & PENALTY-PROP TAX (DELINQ)	967	0	240	0
TOTAL	LOCAL TAXES	107,587	0	2,300	0
CHARGES FOR SERVICES					
34410	COMMERCIAL COLLECTION FEES	672,449	828,000	922,330	945,000
34421	SALE OF DUMPSTERS	4,493	5,000	6,410	5,000
34422	LEASE OF DUMPSTERS - **IN 34410**	99,495	102,000	9,550	0
34431	LEASE OF ROLLOFFS	8,770	10,000	7,630	8,000
34432	PICKUP/COLLECTION OF ROLLOFFS	130,066	125,000	122,350	122,000
TOTAL	CHARGES FOR SERVICES	915,273	1,070,000	1,068,270	1,080,000
OTHER REVENUE					
36110	INTEREST EARNINGS - CHECKING	20,738	20,000	18,480	18,500
36496	SALES TAX DISCOUNT	5	0	0	0
TOTAL	OTHER REVENUE	20,743	20,000	18,480	18,500
TOTAL REVENUE		1,043,603	1,090,000	1,089,050	1,098,500
FUND BALANCE, JULY 1ST, BEGINNING OF YEAR		213,343	442,253	450,885	758,335
TOTAL AVAILABLE FUNDS		1,256,946	1,532,253	1,539,935	1,856,835

123 SANITATION FUND**DEPARTMENT OF PUBLIC WORKS****STATEMENT OF ESTIMATED REVENUE AND PROPOSED EXPENDITURES
FOR THE FISCAL YEAR ENDING JUNE 30, 2000**

ACCOUNT NUMBER	FUND #123		Actual	Budget	Estimated	Proposed
FUNCTION OBJECT	Account Description		Fiscal Yr.	Fiscal Yr.	Fiscal Yr.	Fiscal Yr.
			1998	1999	1999	2000
RESIDENTIAL COLLECTION						
43220	111	SALARIES & WAGES-REGULAR	189,576	195,900	192,200	186,000
43220	112	SALARIES-O/T	4,182	6,000	5,670	7,000
43220	114	SALARIES - ON CALL	169	200	200	200
43220	115	SALARIES - ON CALL WORKED	222	300	300	200
43220	141	FICA	14,154	16,360	14,830	14,800
43220	142	HOSPITAL AND HEALTH INS	38,742	42,000	34,030	35,000
43220	143	RETIREMENT - CURRENT	13,338	16,900	15,680	15,280
43220	146	WORKMEN'S COMPENSATION	3,064	3,500	2,180	3,500
43220	147	UNEMPLOYMENT INSURANCE	0	250	0	250
43220	148	EMPLOYEE EDUCATION & TRAINING	0	100	100	100
43220	195	WELLNESS	140	500	500	500
43220	253	ACCOUNTING & AUDITING SERVICES	0	1,500	0	0
43220	261	REPAIR & MAINT - MOTOR VEHICLES	22,307	20,000	13,890	18,000
43220	263	REPAIR & MAINT-EQUIPMENT	0	0	0	250
43220	311	OFFICE SUPPLIES	0	0	0	250
43220	312	SMALL ITEMS OF EQUIPMENT	0	1,000	440	500
43220	319	MATERIALS AND SUPPLIES	4,185	4,500	2,120	3,000
43220	326	CLOTHING & UNIFORMS	2,187	3,600	3,210	3,300
43220	331	GAS, OIL, DIESEL FUEL, GREASE, ETC	5,104	5,000	3,450	5,000
43220	513	PROPERTY & LIAB INSURANCE	1,445	1,600	1,540	1,600
43220	589	WORKERS COMPENSATION CLAIMS	6,795	2,000	90	2,000
43220	893	RECYCLING EXPENSE	24,555	5,000	8,950	10,000
43220	899	MISCELLANEOUS EXPENSE	214	500	60	500
TOTAL RESIDENTIAL COLLECTION			330,379	326,710	299,420	307,230

123 SANITATION FUND**DEPARTMENT OF PUBLIC WORKS****STATEMENT OF ESTIMATED REVENUE AND PROPOSED EXPENDITURES
FOR THE FISCAL YEAR ENDING JUNE 30, 2000**

ACCOUNT NUMBER	FUND #123		Actual	Budget	Estimated	Proposed
FUNCTION OBJECT	Account Description		Fiscal Yr.	Fiscal Yr.	Fiscal Yr.	Fiscal Yr.
			1998	1999	1999	2000
COMMERCIAL COLLECTION						
43230	111	SALARIES & WAGES-REGULAR	185,417	192,700	198,200	202,500
43230	112	SALARIES & WAGES-O/T	7,143	8,000	11,170	10,000
43230	115	SALARIES - ON CALL WORKED	0	0	270	300
43230	141	FICA	14,010	14,440	15,680	16,280
43230	142	HOSPITAL AND HEALTH INS	44,546	48,000	42,960	45,000
43230	143	RETIREMENT - CURRENT	13,299	14,810	16,590	16,810
43230	146	WORKMEN'S COMPENSATION	2,145	2,500	1,510	2,500
43230	148	EMPLOYEE EDUCATION & TRAINING	0	100	0	100
43230	195	WELLNESS	114	400	0	500
43230	241	UTILITIES	0	0	1,090	1,000
43230	253	ACCOUNTING & AUDITING SERVICES	0	1,000	0	0
43230	261	REPAIR & MAINT - MOTOR VEHICLES	80,349	80,000	52,590	60,000
43230	263	REPAIR & MAINT-EQUIPMENT	0	0	0	250
43230	293	CONTRACTED SERVICES	63,270	70,000	53,150	30,000
43230	296	LANDFILL SERVICES	5,460	30,000	3,360	10,000
43230	311	OFFICE SUPPLIES	0	0	0	250
43230	312	SMALL ITEMS OF EQUIPMENT	0	1,000	0	1,000
43230	315	COMPUTER SUPPLIES	0	0	230	0
43230	319	MATERIALS AND SUPPLIES	8,417	6,000	3,900	5,000
43230	326	CLOTHING & UNIFORMS	1,937	2,000	1,920	2,000
43230	331	GAS, OIL, DIESEL FUEL, GREASE, ETC	9,208	10,000	4,870	5,000
43230	332	MOTOR VEHICLE PARTS	0	0	0	1,000
43230	513	PROPERTY & LIAB INSURANCE	766	1,000	860	1,000
43230	582	CLAIMS & DAMAGES	18,184	25,000	0	0
43230	589	WORKERS COMP CLAIMS	35	2,500	0	0
43230	899	MISCELLANEOUS EXPENSE	56	500	270	500
TOTAL	COMMERCIAL COLLECTION		454,336	510,050	408,620	410,990

123 SANITATION FUND**DEPARTMENT OF PUBLIC WORKS****STATEMENT OF ESTIMATED REVENUE AND PROPOSED EXPENDITURES
FOR THE FISCAL YEAR ENDING JUNE 30, 2000**

ACCOUNT NUMBER	FUND #123		Actual	Budget	Estimated	Proposed
FUNCTION OBJECT	Account Description		Fiscal Yr.	Fiscal Yr.	Fiscal Yr.	Fiscal Yr.
			1998	1999	1999	2000
NON-OPERATING EXPENDITURES						
43280	245	TELEPHONE	390	0	100	400
43280	253	AUDIT FEES	1,500	1,500	1,330	1,500
43280	585	ADMINISTRATIVE FEE	23,000	25,000	25,000	52,300
43280	588	CUSTOMER SERVICE BILLING EXPENSE	7,290	6,500	6,500	7,000
43280	891	BANK SERVICE CHARGE	998	0	850	0
43280	899	MISCELLANEOUS EXPENSE	0	100	100	100
TOTAL NON-OPERATING EXPENDITURES			33,178	33,100	33,880	61,300
CAPITAL EXPENDITURES						
43290	929	BUILDING RENOVATIONS & IMPROVEMENTS	0	15,000	0	0
43290	939	DUMPSTERS	28,478	50,000	19,400	0
43290	942	HEAVY DUTY EQUIPMENT	0	0	0	12,500
		\$7,500 - Sand Blast Unit				
		\$5,000 - High Pressure Washer				
43290	944	VEHICLES AND DUMP TRUCKS	0	25,000	20,280	0
43290	944	DUMP TRUCKS	0	90,000	0	0
43290	958	GARBAGE TRUCKS	0	0	0	310,000
		\$110,000 - Rear Loading Truck - Residential				
		\$150,000 - Front Loading Truck - Commercial				
		\$ 50,000 - Used Roll-Off Truck				
TOTAL CAPITAL EXPENDITURES			28,478	180,000	39,680	322,500
TOTAL SANITATION FUND EXPENDITURES			846,371	1,049,860	781,600	1,102,020

TOWN OF MONTEREY
SOLID WASTE MANAGEMENT FUND

FISCAL YEAR ENDING 06/30/00

*Manufacture
40*

<u>REVENUE</u>	<u>ACCOUNT</u>	<u>PROPOSED BUDGET</u>
Refuse Collection Fee	34410	\$86,000.00
Transfer from Gen. Fund	37940	\$30,000.00
FUND TOTAL		\$116,000.00

<u>EXPENDITURES</u>	<u>FUNCTION NUMBER</u>	<u>OBJECT NUMBER</u>	<u>1999-2000 BUDGET</u>
Sanitation	43200		
Salaries		111	\$52,728.00
Overtime		112	\$ 1,050.00
Vacation Pay		133	\$ 3,500.00
OASI		141	\$ 4,400.00
Hospital/Health Insurance		142	\$ 8,100.00
Retirement		143	\$ 1,435.00
Workers Compensation		146	\$ 6,000.00
Unemployment Insurance		147	\$ 300.00
Repair - Vehicles		261	\$ 5,000.00
Landfill Services		295	\$ 1,000.00
Operating Supplies		320	\$ 2,707.00
Gas, Oil, Etc.		331	\$ 5,000.00
Bank Service Charge		691	\$ 180.00
Transportation Equipment		944	\$19,000.00
Insurance		519	\$ 5,000.00
Christmas Bonus		134	\$ 600.00
TOTAL EXPENDITURES			\$116,000.00

	1997-1998	1998-1999	1999-2000
PARKS AND RECREATION	Actual	Projected	Proposed
Donations	5,200	5,200	5,200
TOTAL DONATIONS	\$5,200	\$5,200	\$5,200
TRANSFER TO SANITATION FUND	\$35,003	\$49,928	\$48,200
TOTAL GENERAL FUND EXPENDITURES	416,078	486,189	452,234
SANITATION FUND			
	1997-1998	1998-1999	1999-2000
	Actual	Projected	Proposed
REVENUES			
Approp. Trsf.-Sanit. Fund	\$35,003	\$59,928	\$48,200
Borrow	0	15,500	0
TOTAL REVENUES	\$35,003	\$75,428	\$48,200
Capital Outlay	\$0	\$15,918	\$0
Salaries	26,868	32,500	33,475 ✓
Supplies	12	120	126 ✓
Truck Expenses	3,240	100	6,475 ✓
Equipment	1,860	0	0
Contract Services	72	0	0
Bill	880	960	988 ✓
Gas & Oil	2,020	200	206 ✓
Miscellaneous	51	130	134 ✓
	0		
TOTAL EXPENSES	35,003	49,928	41,405

TO Chris Garkovkic

FAX 526-7922

Sheet1

CITY OF ALGOOD	
108 E. MainSt.	
Algood, Tn 38506	
FY 1999-2000	
SANITATION - SOLID WASTE BUDGET	
INCOME	
Dumpster Pickup	14,500.00
Share Property Tx	81,546.00
	96,046.00
EXPENSES	
Payroll	51,675
Payroll taxes	3,955
Hospital, Employee	9,431
Hospital, Dep.	6,748
Retirement	5,168
Insurance WC	2,819
Xmas Bonus	600
Truck Repairs	5,980
Truck Decal	
Land Fill Tip Fee	960
Operating Supplies	400
Uniform Rent/Clean	1,360
Gasoline/oil/etc	3,600
Tires/tubes etc	1,500
Insurance Liab, etc	1,850
	96,046

PROPOSED TEN-YEAR SOLID WASTE BUDGET FOR THE REGION OF PUTNAM COUNTY

Projected Expenditures

Jurisdiction	Fiscal 99/00	Fiscal 00/01	Fiscal 01/02	Fiscal 02/03	Fiscal 03/04	Fiscal 04/05	Fiscal 06/07	Fiscal 07/08	Fiscal 08/09	Fiscal 09/10
Putnam County	2713100	2808058	2906340	3008062	3113344	3222311	3335092	3451820	3572634	3697676
Cookeville	781600	808956	837269	866573	896903	928295	960785	994412	1029216	1065239
Monterey	116000	120060	124262	128611	133112	137771	142593	147584	152749	158095
Baxter	41405	42854	44354	45906	47513	49176	50897	52678	54217	56125
Algood	96046	99407	102886	106487	110214	114071	118064	122196	126473	130900
Total	3748151	3879335	4015111	4155639	4301086	4451624	4607431	4768690	4935289	5108035

Note: Each fiscal year assumes a 3.5% cost of living increase.

Projected Revenues

Jurisdiction	Fiscal 99/00	Fiscal 01/02	Fiscal 02/03	Fiscal 03/04	Fiscal 04/05	Fiscal 05/06	Fiscal 06/07	Fiscal 07/08	Fiscal 08/09	Fiscal 09/10
Putnam County	2417938	2502566	2590156	2680811	2774639	2871751	2972262	3076291	3183961	3295400
Cookeville	1539935	1593833	1649617	1707354	1767111	1828960	1892974	1959228	2027801	2098774
Monterey	116000	120060	124262	128611	133112	137771	142593	147584	152749	158095
Baxter	48200	49887	51633	53440	55310	57246	59250	61324	63470	65692
Algood	96046	99407	102886	106487	110214	114071	118064	122196	126473	130900
Total	4218119	4365753	4518554	4676703	4840386	5009799	5185143	5366623	5554454	5748861

Note: Each fiscal year assumes a 3.5% cost of living increase.

Public Hearing Sign-In Sheet

Please sign-in:

Name

Jane Allen

Bill Walker

Kayna Bouman

Johnnie Wheeler

Rexa Strachan

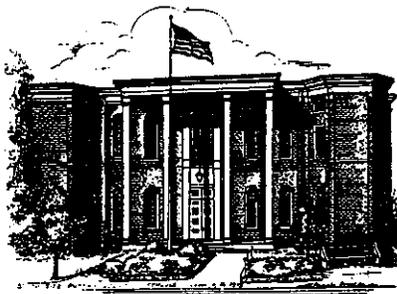
Rob Adkin

Andi Honequist

Tom Dyer

Wesley Francis

Gregory C. Bouman



COUNTY EXECUTIVE
Douglas M. McBroom
PUTNAM COUNTY, TENNESSEE
300 East Spring St., Room 8
Cookeville, Tennessee 38501
Tel: 615/526-2161
Fax: 615/528-1300

Info!

To: HERALD CITIZEN
From: DEBBY FRANCIS, BUDGET COORDINATOR
Date: May 2, 2000
Re: SEE BELOW

PLEASE PLACE THE FOLLOWING UNDER "LEGAL NOTICES" ONE (1) TIME IN YOUR NEXT AVAILABLE PUBLICATION.

NOTICE OF PUBLIC HEARING

THE PUTNAM COUNTY REGIONAL SOLID WASTE COMMITTEE WILL HOLD A HEARING OPEN TO THE PUBLIC TO ANSWER AND/OR TAKE COMMENTS ON THE FIVE YEAR PLAN UPDATE ON THE TEN YEAR SOLID WASTE PLAN FOR PUTNAM COUNTY. THIS MEETING WILL BE HELD ON MONDAY, MAY 15, 2000 AT 5:30 PM IN THE PUTNAM COUNTY JUSTICE CENTER IN THE GENERAL SESSIONS COURTROOM.



COUNTY EXECUTIVE
Douglas M. McBroom
PUTNAM COUNTY, TENNESSEE
300 East Spring St., Room 8
Cookeville, Tennessee 38501
Tel: 615/526-2161
Fax: 615/528-1300

To: REGIONAL SOLID WASTE COMMITTEE
From: DOUG MCBROOM, COUNTY EXECUTIVE
Date: May 1, 2000
Re: SEE BELOW

THE REGIONAL SOLID WASTE COMMITTEE

WILL BE HAVING A MEETING

ON Monday, MAY 8, 2000

AT 5:00 pm

COUNTY EXECUTIVE'S CONFERENCE ROOM IN THE COURTHOUSE

DISCUSSION WILL BE THE 5 YEAR UPDATE

ON THE 10 YEAR SOLID WASTE PLAN

ALL MEMBERS ARE URGED TO ATTEND

***COUNTY MEMBERS - RICK ADKINS, JOHNNIE WHEELER, BILL WALKER, JOE TROBAUGH,
RAYMOND BOWMAN***

CITY OF COOKEVILLE - TOM DYER CITY OF BAXTER - J.C. HARVILLE

CITY OF ALGOOD - ROGER REED CITY OF MONTEREY - ANDY HONEYCUTT

**MINUTES
REGIONAL SOLID WASTE COMMITTEE
MEETING
MAY 8, 2000**

The Regional Solid Waste Committee held their first meeting of new members on Monday, May 8, 2000 at 5:00PM in the County Executive's Conference Room with the following members in attendance:

Bill Walker
Tom Dyer
J.C. Harville
Joe Trobaugh
Raymond Bowman

Others in attendance:

Chris with CTAS
Keith Street-Solid Waste Director
Debby Francis-Budget Coordinator

At the beginning of the meeting there was the election of officers which went as follows:

Chairman Tom Dyer - City of Cookeville
Vice-Chair J.C. Harville - City of Baxter
Secretary Johnnie Wheeler - Commissioner

Motions made by: Raymond Bowman VOICE VOTE APPROVED
Seconded by: Joe Trobaugh

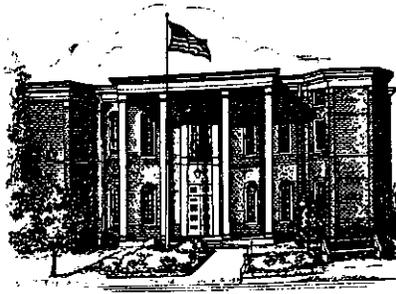
Chris gave the Committee copies of the "Annual Solid Waste Plan" and briefly went over it and was available for any questions that the Committee might have. She then gave out the "5 year Update on the 10 year Solid Waste Plan" and explained briefly what the State required for this plan. She explained that of the 25% reduction goal that the County had in the original 10 year plan we had actually reached a 66% reduction on our solid waste.

Due to the fact that there could possibly be input from the Regional Solid Waste Committee on the reports handed out to the Committee at this meeting, and because some editing could be done, the following motion was made.

Motion: Recommends to defer recommendation to the Planning Committee for 1 month until all members could review reports. Also recommends that the Regional Solid Waste Committee meet next month on June 12, 2000 at 5:30 PM in the Justice Center before the Planning Committee meets.

Made By: Walker VOICE VOTE APPROVED
Seconded: Bowman

ADJOURNED



COUNTY EXECUTIVE
Douglas M. McBroom
PUTNAM COUNTY, TENNESSEE
300 East Spring St., Room 8
Cookeville, Tennessee 38501
Tel: 615/526-2161
Fax: 615/528-1300

June 28, 2000

John Whitehead
Regional Planning Office
621 East 15th Street
Cookeville Tn 38501

Dear John,

Enclosed is a copy of the Five Year Update of the Ten Year Solid Waste Plan for the Planning Region of Putnam County for your review. The Solid Waste Planning Region Board and the Putnam County Commission approved the Five year Update required by the Solid Waste Management Act of 1991. Approved copies have been sent to the Division of Solid Waste Assistance, Tennessee Department of Environment and Conservation.

If you should have any questions or comments about the enclosed document, please feel free to call my office or Keith Street the Putnam County Solid Waste Director.

Sincerely,

Doug McBroom
County Executive

Dhf/DMM
Enclosure

RESOLUTION NO. _____

A RESOLUTION
RATIFYING THE PUTNAM COUNTY
PLANNING REGION'S SOLID WASTE PLAN

WHEREAS, Tennessee Code Annotated 68-211-801 et. seq. requires that each county in the State of Tennessee form solid waste planning regions, and

WHEREAS, said regions are responsible for developing a ten (10) year plan for the management of solid waste, and

WHEREAS, by resolution the Putnam County Board of County Commissioners created the Putnam County Solid Waste Planning Region, and

WHEREAS, the resolution creating the Putnam County Planning Region also established a Board with the responsibility of developing, administering and updating the Region's plan as per the requirements of T.C.A. 68-211-801 et. seq., and

WHEREAS, this board has developed a ten (10) year municipal solid waste plan based upon and following the guidelines for such plans as promulgated by the Tennessee State Planning Office and T.C.A. 68-211-801 et. seq., and

WHEREAS, the guidelines promulgated by the Tennessee State Planning Office require that the municipal solid waste plan prepared by the Putnam County Planning Region be ratified by the Board of County Commissioners of the County composing said Region.

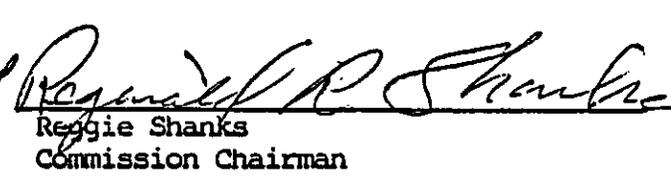
NOW, THEREFORE, BE IT RESOLVED, by the Putnam County Board of County Commissioners that it hereby ratifies the Putnam County Planning Region's solid waste plan and acknowledges Putnam County's participation and responsibilities under this plan.

BE IT RESOLVED, this 20th day of June, 1994, the welfare of the citizens of Putnam County, Tennessee requiring it.

ATTEST:

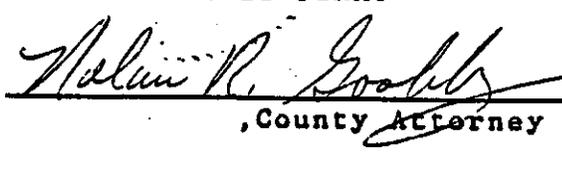


County Clerk

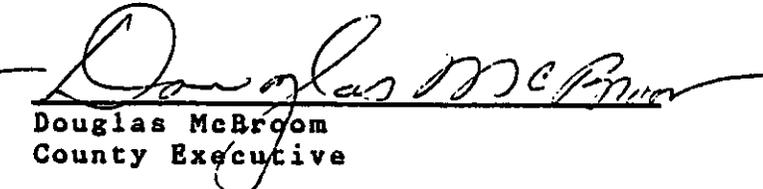


Reggie Shanks
Commission Chairman

APPROVED AS TO FORM:



County Attorney



Douglas McBroom
County Executive

Ruth Ann Woolbright

Probate and Juvenile Clerk

Telephone 931/526 - 7106

P. O. Box 220

Cookeville, Tennessee 38503 - 0220

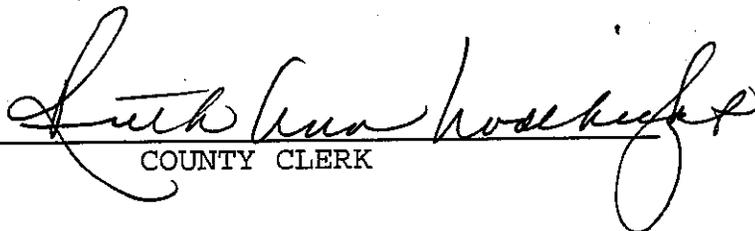
CERTIFICATION

STATE OF TENNESSEE)

COUNTY OF PUTNAM)

I, RUTH ANN WOOLBRIGHT, duly elected County Clerk in and for said County and State, do hereby certify that the attached and foregoing is a true, correct, and complete copy of the MOTION RECOMMENDING THE REGIONAL SOLID WASTE COMMITTEE. as adopted by the Putnam County Commission at the March 20, 2000 regular monthly meeting, as the same appears of record and on file of which records and files I am present legal custodian.

WITNESS my hand and official seal of office this the 23 day of March, 2000.


COUNTY CLERK

S E A L

Deputy Clerk: _____

Ladelle Randolph
Juvenile Clerk

Amy Houston
Probate Clerk

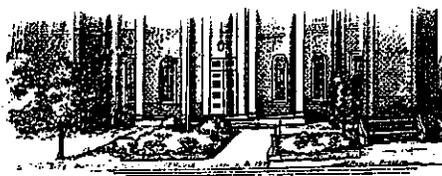
NOMINATING COMMITTEE

MOTION RE: THE NOMINATING COMMITTEE RECOMMENDS THE FOLLOWING REGIONAL SOLID WASTE COMMITTEE:

PUTNAM COUNTY	RICK ADKINS	TERM EXPIRES MARCH 2006
	BILL WALKER	TERM EXPIRES MARCH 2006
	JOE TROBAUGH	TERM EXPIRES MARCH 2006
	JOHNNIE WHEELER	TERM EXPIRES MARCH 2004
	RAYMOND BOWMAN	TERM EXPIRES MARCH 2004
CITY OF COOKEVILLE	TOM DYER	TERM EXPIRES MARCH 2004
CITY OF BAXTER	J.C. HARVILLE	TERM EXPIRES MARCH 2002
CITY OF ALGOOD	ROGER REED	TERM EXPIRES MARCH 2002
CITY OF MONTEREY	ANDY HONEYCUTT	TERM EXPIRES MARCH 2002

Commissioner Johnnie Wheeler, seconded by Commissioner Jere Mason moved to approve the following Regional Solid Waste Committee: Putnam County - Rick Adkins term expires March 2006, Bill walker term expires March 2006, Joe Trobaugh term expires March 2006, Johnnie Wheeler term expires March 2004, and Raymond Bowman term expires March 2004, City of Cookeville - Tom Dyer term expires March 2004, City of Baxter - J.C. Harville term expires March 2002, City of Algood - Roger Reed term expires March 2002, and City of Monterey - Andy Honeycutt term expires March 2002.

(SEE ATTACHED)



COUNTY EXECUTIVE
Douglas M. McBroom
PUTNAM COUNTY, TENNESSEE
300 East Spring St., Room 8
Cookeville, Tennessee 38501
Tel: 615/526-2161
Fax: 615/528-1300

To: NOMINATING COMMITTEE
From: DOUG MCBROOM, COUNTY EXECUTIVE
Date: March 7, 2000
Re: REGIONAL SOLID WASTE COMMITTEE

The new Regional Solid Waste Committee is recommended as follows:

Putnam County	Rick Adkins	6 year term	To expire March 2006
	Bill Walker	6 year term	To expire March 2006
	Joe Trobaugh	6 year term	To expire March 2006
	Johnnie Wheeler	4 year term	To expire March 2004
	Raymond Bowman	4 year term	To expire March 2004
City of Cookeville	Tom Dyer	4 year term	To expire March 2004
City of Baxter	J.C. Harville	2 year term	To expire March 2002
City of Algood	Roger Reed	2 year term	To expire March 2002
City of Monterey	To be determined	2 year term	To expire March 2002

Andy Honeycutt

The Chairman asked for questions on the motion.

Commissioner Dennis Little asked if the people from Putnam County would be placed on the Committee as County Commissioners or as individuals.

Commissioner Marilyn Gray stated that the five people from Putnam County were placed on the Committee as County Commissioners, but And Honeycutt was placed on the Committee for the City of Monterey as an individual.

The Chairman asked the Clerk to call the roll on the motion to approve the following as the Regional Solid Waste Committee: Rick Adkins, Bill Walker, Joe Trobaugh, Johnnie Wheeler, Raymond Bowman, Tom Dyer, J.C. Harville, Roger Reed, and Andy Honeycutt and the Commissioners voted as follows:

FOR

Ottis Hunter
Larry Epps
Gary Vickers
Marilyn Gray
Eddie Thompson
Andy Honeycutt
Charles Looper
Danny Burgess
Johnnie Wheeler
Dennis Little
Reginald Shanks
Ralph Dunn
Joe Trobaugh
Billy Rodgers
Elton Stout
Philip Hall
Ron Chaffin
Danny Frye
Jerry Maynard
Jere Mason
Bill Walker
Rick Adkins
Raymond Bowman

ABSENT

Ray Newman

The Clerk announced that twenty-three (23) voted for and one (1) was absent.

The Chairman announced that the motion carried.

REPORT OF SPECIAL COMMITTEES

RESOLUTIONS

MOTION RE: ELECTION OF NOTARIES

Commissioner Ralph Dunn, seconded by Commissioner Rick Adkins moved to approve Election of Notaries.

(SEE ELECTION OF NOTARIES ATTACHED HERETO)

Ruth Ann Woolbright

Probate and Juvenile Clerk

Telephone 931/526 -7106

P. O. Box 220

Cookeville, Tennessee 38503 -0220

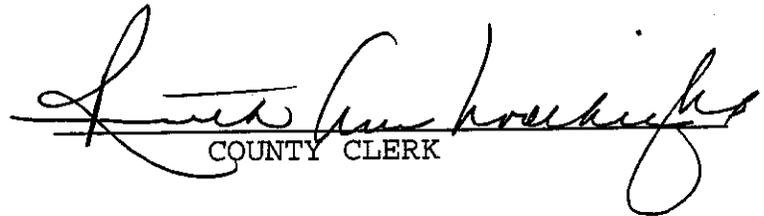
CERTIFICATION

STATE OF TENNESSEE)

COUNTY OF PUTNAM)

I, RUTH ANN WOOLBRIGHT, duly elected County Clerk in and for said County and State, do hereby certify that the attached and foregoing is a true, correct, and complete copy of the RESOLUTION ADOPTING A FIVE YEAR REVISION AND UPDATE TO THE SOLID WASTE REGION, IN ACCORDANCE WITH THE TENNESSEE SOLID WASTE MANAGEMENT ACT OF 1991 as adopted by the Putnam County Commission at the June 19, 2000 regular monthly meeting, as the same appears of record and on file of which records and files I am present legal custodian.

WITNESS my hand and official seal of office this the 27 day of June, 2000.


COUNTY CLERK

S E A L

Deputy Clerk: _____

Ladelle Randolph
Juvenile Clerk

Amy Houston
Probate Clerk

RESOLUTION

A RESOLUTION ADOPTING A FIVE YEAR REVISION AND UPDATE TO THE SOLID WASTE REGION, IN ACCORDANCE WITH THE TENNESSEE SOLID WASTE MANAGEMENT ACT OF 1991

WHEREAS, the proper management of solid waste is an important issue affecting the health and welfare of current and future residents of Putnam County; and

WHEREAS, the Tennessee Solid Waste Management Act of 1991 ("the Act")_ mandates the establishment of "solid waste regions" throughout the state; and

WHEREAS, each solid waste region is required to prepare a five year revised Solid Waste management Plan in accordance with the Act; and

WHEREAS, the Putnam County Solid Waste Authority has prepared and adopted a five year revision and updated the Solid Waste Management plan for Putnam County Solid Waste Region, has held a public hearing on the plan, and recommends its adoption by Putnam County and the cities.

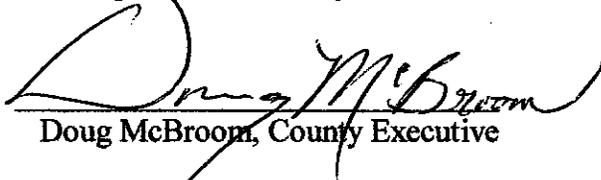
NOW, THEREFORE, BE IT RESOLVED BY THE PUTNAM COUNTY BOARD OF COMMISSIONERS as follows:

Section 1. Putnam County hereby adopts the Putnam County Solid Waste Five Year Revision/Update Management Plan, dated June, 19, 2000.

Section 2. Putnam County authorizes the submission of the Putnam County Solid Waste Five Year Revision/Update Management Plan to the Tennessee Department of Environment and Conservation and endorses the subsequent approval of the same as the Solid Waste Planning document of the Putnam County Solid Waste Region.

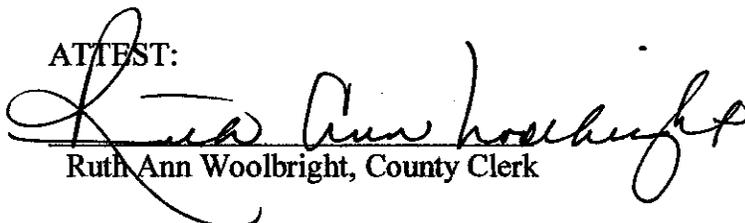
Section 3. Putnam County will continue to cooperate and work with the Putnam County Regional Solid Waste Committee in order to implement the Putnam County Solid Waste Management Plan, thereby satisfying the requirements set forth in the Act of 1991.

Adopted this 19th day of June, 2000


Doug McBroon, County Executive


Ralph Dunn, Chairman Pro Tempore

ATTEST:


Ruth Ann Woolbright, County Clerk

Routing Page
Solid Waste Planning Region
5 - YR Update

Planning Region: Putnam County 71

Clerk

Note: Send one original copy of the report to the permanent file. If the planning region did not provide two copies of the report, then make a working copy and send the original to the permanent file.

1. Write in the name of the person completing this report Keith Street Solid Waste Director
a "cc" for all letters sent to the chairperson.
2. (may be attached as a separate list):
Was a list of board members provided? Yes No
*If yes, continue to question four and verify the term of each member is current.
If no, skip question and go directly to question.*
3. Was the term of each member current? Yes No
Continue to question.
4. See page 14:
Did the chairperson of the board sign and date the report? Yes No
Continue to question.
5. See page 14:
Did the county executive, (each local Government body) sign and date the report? Yes No
Continue to question.
6. Which reviewer was assigned to this report? Karen Bob Becky
Continue to question.
7. On what date was the report sent to the reviewer? _____
Continue to question.
8. What is the deadline for the review (i.e., 90 working days from received stamp)? 9/29/00
Attach routing page to the report and give it to the reviewer.

Note: The letter will be addressed to the chairperson. The cc list will include the County Executive, Development District Director, person who prepared the report, and the CTAS contact. Modify (with date, names, cc, etc.) and print the letter entitled "5YrUpdtlnmerg." and give letter to Linda Rigsby for Ron Graham's signature. After letter is signed, Linda copies the letter for the cc list and one for the file. Linda then mails the letters and sends a copy of the letter to Patty to be placed in the permanent file.

Reviewer

Date review is complete _____ Reviewer's initials _____
Log-in completion date and give working copy of report to Bob. Leave original copy in the permanent file.