

SCRAP TIRE MANAGEMENT REPORT

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PREPARED BY THE

**NORTH CAROLINA DEPARTMENT OF ENVIRONMENT, HEALTH,
AND NATURAL RESOURCES**

DIVISION OF SOLID WASTE MANAGEMENT

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1994 SCRAP TIRE MANAGEMENT REPORT

TABLE OF CONTENTS

<u>CHAPTERS</u>	<u>PAGE</u>
1. EXECUTIVE SUMMARY	3
2. INTRODUCTION	4
3. SCRAP TIRE GENERATION IN NORTH CAROLINA	5
4. COUNTY REPORTS	7
5. TIRE RECYCLING	8
6. COUNTY COSTS OF TIRE DISPOSAL	11
7. TIRE DISPOSAL TAX REVENUE DISTRIBUTION	11
8. UNACCOUNTED TIRES	13
9. SCRAP TIRE DISPOSAL ACCOUNT REPORT	13
 <u>APPENDIX TABLES</u>	
1. COUNTY REPORTS OF TIRE DISPOSAL ACTIVITIES IN FY 1992-1993	16
2. EXPENSES INCURRED BY NORTH CAROLINA COUNTIES FOR TIRE DISPOSAL IN 1990 - 1993	19
3. COUNTIES INCURRING TIRE DISPOSAL COSTS BELOW AND ABOVE THE STATE AVERAGE OF \$1.56 PER TIRE.	21
4. PERCENTAGE OF COUNTY TIRE PROGRAM EXPENSES MET BY THE 1% STATE TIRE DISPOSAL TAX REVENUE RECEIVED JULY, 1992 - June 1993	22
5. TIRE TIP FEES CHARGED BY NORTH CAROLINA COUNTIES IN 1990 - 1993	24
6. NUMBER OF TIRES UNACCOUNTED IN 1990 - 1993	26

1 EXECUTIVE SUMMARY

The 1993 Scrap Tire Management Report provides information on the management of scrap tires in North Carolina. This report covers fiscal year (FY) 1992-1993, and is based on information provided by the county waste management annual reports submitted to the Division of Solid Waste Management, Solid Waste Section in December 1993. Additional information is available by contacting the Solid Waste Section at 919-733-0692.

An estimated 6.8 million scrap tires or 1.0 per person were generated in North Carolina in FY 1992 - 1993.

The counties reported managing 5,329,340 tires, which was 78 percent of the estimated 6.8 million tires generated in FY 1992-1993.

Approximately 1,962,500 scrap tires or 29 percent of the scrap tires generated in North Carolina were diverted from landfills for various uses in FY 1992-1993. This was a large increase over the previous year when only 15 percent of the tires were recycled.

The average FY 1992-1993 landfill disposal fee was \$0.30 per tire, which was lower than the average fees of \$0.37 per tire in FY 1991-1992 and \$0.48 in FY 1990-1991. As of January 1994 all counties were required to remove disposal fees for tires certified generated in the normal course of business in North Carolina. The average cost for tire management reported by the counties was \$1.56 per tire.

The one percent state tire disposal tax revenue distributed to the counties was \$3,478,739.00, which represented \$0.51 for each scrap tire generated and \$0.78 for each tire reported as managed by the counties.

The 1 percent tire disposal tax revenue distributed to the counties covered 73 percent of county expenses to dispose tires. The tax increased to 2 percent on October 1, 1993, which will result in increased revenues for the counties in FY 1992-1993.

Distribution of the 1 percent tire disposal tax proceeds to counties based on population did not cover county costs equitably, and counties received from 41 percent to over 136 percent of reported costs incurred from their individual tire programs.

Approximately 554,000 tires or 8 percent of the total estimated generated were unaccounted. Possible explanations include shipment out of state for disposal, illegal disposal (dumping) or stockpiling of tires.

2 INTRODUCTION

Disposal of whole tires was banned in 1989 as part of Senate Bill 111. Scrap tires present unique disposal and environmental problems. Whole tires cannot be landfilled satisfactorily because they use large amounts of space, cannot be compacted, and tend to "float" to the surface.

Major legislative changes were made in the tire program with House Bill 83 in 1993. The scrap tire disposal tax was increased to 2 percent effective October 1, 1993, and landfill disposal fees were prohibited effective January 1, 1994. These changes are temporary and will expire June 30, 1997. This report covers the period July 1, 1992 through June 30, 1993, which did not include the period affected by the legislative changes.

Nuisance tire sites create serious health and environmental risks in North Carolina. **These sites exist across North Carolina, and are responsible for introducing a new species of mosquito into North Carolina.** The Asian Tiger Mosquito (*Aedes albopictus*) is an aggressive exotic species imported into North Carolina in scrap tires. It is a container-breeder and thrives in tire dumps, even in the western half of the state which has traditionally escaped the more aggressive mosquito species. The mosquito was identified in 29 of 38 sites sampled in a recent study by N.C. State University.¹

Not only is the Asian Tiger Mosquito a nuisance for outdoor activity, it is capable of carrying the eastern equine encephalitis (EEE) virus.² This deadly disease is currently present in bird populations in eastern North Carolina, and is transmitted among birds by mosquitoes. This is potentially dangerous if a mosquito becomes established in the state which can transmit the disease to humans. While the mosquito can carry the disease organism, it is not known if it can transmit infectious doses to humans. Immediate cleanup of tire sites is the only way to prevent establishment of the mosquito across North Carolina.

Nuisance tire sites also pose special fire risks because of the difficulty in cutting off the oxygen supply and extinguishing such fires. There is a substantial treat of tire fires at many sites, especially those that exceed one million tires. Tire fires produce

¹ 1994. Survey of Mosquitoes and Mosquito-Transmitted Viruses Associated with Tire Disposal Sites in North Carolina. NC State University, Department of Entomology.

²1992. Isolation of eastern equine encephalitis virus from *Aedes albopictus* in Florida. Science 257:526.

1993. Vector Ecology Newsletter 23(3).

hazardous air emissions and toxic liquid run-off. Recent Environmental Protection Agency (EPA) research on uncontrolled tire fires has identified cancer-causing agents in the smoke.

An EPA report¹ states the following about tire fires:

There exists the "potential for the emission of great amounts of organic compounds, primarily aromatic, some of which may be extremely harmful."

"Considering (a) the relatively high mutagenic potency of the particulate organics, (b) the high mutagenic emission factors, and (c) the presence of many mutagens/carcinogens, especially PAHs, in the effluent from the open burning of tires, such burns pose a **genuine environmental and health hazard**. Because of the frequent occurrence of unwanted combustion at tire piles, and the potential environmental and health risks posed by such combustion, prudence would suggest that such piles be reduced or eliminated in size and number."

Recent tire fires in Surry, Stokes, Wayne, Halifax, and other North Carolina counties produced large amounts of emissions of incomplete combustion. Also, liquid run-off to surface waters have caused fish kills.

Legislation in 1993 provided some funding to clean nuisance tire sites. However, funding will be limited to approximately \$1.3 million per year. Cleanup will be initiated in 1994.

Detailed waste tire management data was received from all North Carolina counties for FY 1992-1993. This was the third such annual reporting, which makes it possible to analyze trends in scrap tire management in North Carolina.

These data come from the comprehensive Solid Waste Management Report and include numbers of tires managed, costs, and the distribution of the 1 percent tire disposal tax revenue. This report also describes how the number of scrap tires generated in 1992-1993 was estimated.

3 SCRAP TIRE GENERATION IN NORTH CAROLINA

The standard used by the United States Environmental Protection Agency (EPA) for estimating generation of scrap tires is one tire per person per year.² Since the 1993 population of North Carolina was 6,836,977, it is estimated that an equal number of tires were generated during FY 1992-1993.

¹ Mutagenicity of Emissions From the Simulated Open Burning of Scrap Rubber Tires. July 1992. EPA Air and Energy Research Laboratory and Health Effects Research Laboratory, RTP, NC.

² Markets for Scrap Tires. 1991. US EPA, Office of Solid Waste. EPA/530-SW-90-074A. Washington, DC.

Net collections for this period were \$4,146,703 or 1 percent of the total North Carolina tire sales. This is an increase of \$483,977 over sales in FY 1990-1991. According to the NC Tire Dealers and Retreaders Association, tire sales did not actually increase, and sales are constant year to year due to tire longevity. The increase in collections occurred because legislation went into effect in 1992 making off-road and industrial tires subject to the one percent tax.

Sales of truck and car tires can more accurately be determined using the FY 1990-1991 data (\$366,272,540), since this excludes off-road tires. The number of car and truck tires sold can be determined by dividing the total sales by the average cost of tires.

The tire sales data do not separate car and truck tire sales. Since car and truck tire costs are different, the data must be weighted to obtain accurate estimates. Table 1 presents the tire sales data for North Carolina based on revenue from the tire disposal tax.

Table 1. Estimated New Tire Sales in NC in FY 1992-1993 Based on Total Sales Reported in Paying Tire Disposal Tax

<u>Category**</u>	<u>Total sales</u>	<u>Average cost per tire**</u>	<u>Estimated* number of tires</u>
Passenger car (81.84%)	\$299,757,447	\$ 52.00	5,764,566
Light trucks (11.93%)	\$ 43,696,314	\$ 75.00	582,617
Tractor Trailers (6.23%)	\$ 22,818,779	\$300.00	76,063
Total	\$366,272,540 ***		6,423,246

* Estimated by dividing revenue by average cost per tire

** Data provided by the North Carolina Tire Dealers and Retreaders Association

*** Excludes off road tire sales

The number of tires sold in North Carolina in FY 1992-1993 was calculated to be 6,836,977. It is also assumed that an equal number of tires were removed from vehicles.

If the national rate of tire removal from scrapped vehicles is included¹, an additional 0.2 tire per capita (1,367,395 tires) would bring the total to 7,790,641. The 1993 North Carolina population was 6,836,977, so the generation rate would then be about 1.14 per capita per year.

EPA estimates of scrap tires generated nationwide include the assumption that retreaded tires and used tires are put back on the road the same year they are removed. Retreading a tire or reusing the existing tread would therefore extend the tire's useful life. Without retreading or reuse, the national generation rate would be higher than one tire per capita per year.¹ These tires are not counted as scrap tires unless the tires are sent to a disposal or processing facility and subsequently removed for retreading and reuse.

The EPA estimates that if the retread markets could be fully developed to include all retreadable car and light truck tires the number of scrap tires generated could be cut by almost 10 percent.

North Carolina has a large retreading industry, and retreads an estimated 1.5 million tires per year. (N.C. Tire Dealers and Retreaders Association, personal communication) Retread and used tires are not counted as scrap tires in this report, but it is assumed that retreading has reduced the scrap tire generation rate in North Carolina by 779,064 tires or 10 percent of the total. This has reduced the per capita generation rate from 1.14 to 1.03.

Reuse of tires with considerable tread remaining also extends a tire's useful life. The EPA estimates that if all usable tires were put back on the road the number of scrap tires generated could be reduced by 3 percent. Assuming this is fully practiced in North Carolina, this has reduced the annual generation rate by another 233,719 tires. This means the actual generation rate is about 1.0 per capita or 6.8 million scrap tires per year.

4 COUNTY REPORTS

All counties are required to provide facilities for disposal of their scrap tires and to report on their tire management programs. A summary of this data is presented in the Appendix, Table 1. The counties collected and managed tires in various ways. Most counties shipped tires to private recycling and disposal facilities.

¹ Markets for Scrap Tires. 1991. US EPA, Office of Solid Waste. EPA/530-SW-90-074A. Washington, DC.

¹ Kearney, A.T. 1990. Scrap Tire Use/Disposal Study, Final Report. Scrap Tire Management Council, Washington, DC.

Five private facilities received 4,836,703 tires which was 71 percent of the 6.8 million tires discarded in FY 1992-1993. Some counties used more than one facility.

<u>PRIVATE FACILITY</u>	<u>LOCATION</u>	<u>NUMBER OF COUNTIES SERVED</u>	<u>TIRES RECEIVED</u>
US Tire Recycling, LP	Concord	51	2,724,608
Central Carolina Tire Recycling	Cameron	17	626,479
TIRES, Inc	Winston-Salem	20	759,400
Recycled Products Management, Inc.	Sanford	13	168,000
Piedmont Landfill and Recycling Center	Kernersville	10	558,216

5 TIRE RECYCLING

North Carolina recycling firms diverted from landfills approximately 1,962,500 scrap tires or 29 percent of the total scrap tires generated in North Carolina. These tires were used as tire derived fuel (TDF), asphalt, used tires, retreading, agricultural products, civil engineering products, and miscellaneous products. (Fig. 1)

Tire Re-use, Remanufacturing, and Retreading - 9.4 Percent of North Carolina Tires

Approximately 643,300 scrap tires were diverted from the landfill by US Tire Recycling, LP, and Central Carolina Recycling for re-use, retreading, or remanufacturing. Many of these tires had high tread remaining and were sold on the used tire market. This number does not include the large number of tires which were sold directly as used tires or casings, and were not discarded as scrap tires originally.

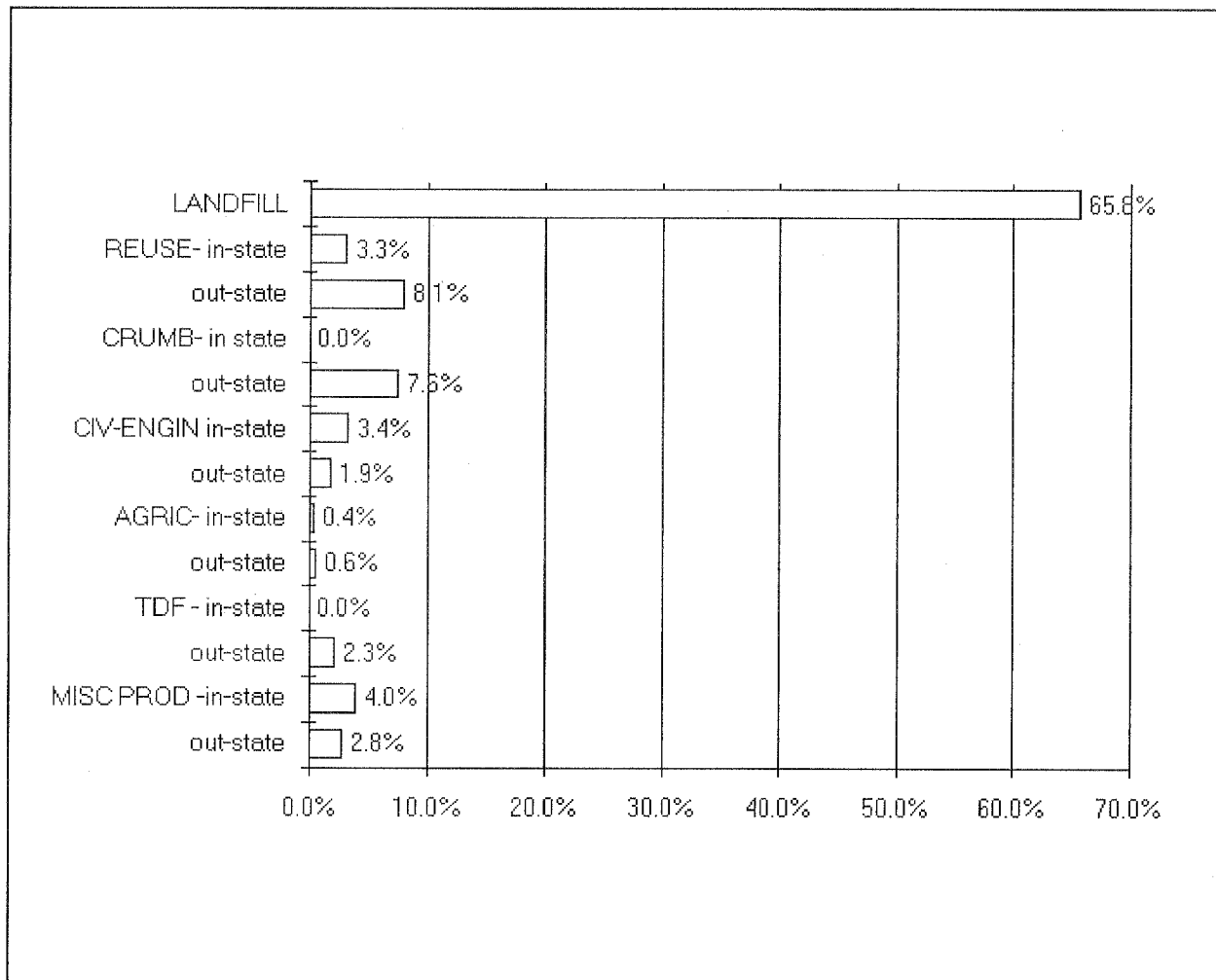
US Tire owns and ships tires to the Achievor Tire Company in Chicago, Illinois, which is the largest tire remanufacturer in the United States. About 75,000 tires/year are shipped from North Carolina for tire remanufacturing.

Tire Derived Fuel (TDF) - 4.5 Percent of North Carolina Tires

- A total of 251,900 tires or 4.47 percent of the scrap tires generated in North Carolina were used as tire derived fuel. This includes 53,835 tires shipped by four northeastern counties to Southeastern Public Service Authority of Virginia and 251,900 tires shredded and shipped by TIRES, Inc. and US Tire to out-of-state markets.

There are currently no users in North Carolina. Markets need to be relatively close to avoid high shipping costs. Production capacity in North Carolina greatly exceeds demand. Expansion in this area will likely be slow since facilities must do extensive air monitoring tests to amend their air permits to burn TDF.

FIGURE 1. END USES OF 6.7 MILLION TIRES CURRENTLY GENERATED ANNUALLY IN NC



Crumb Rubber - 7.28 Percent of North Carolina Tires - About 498,400 tires were recycled as crumb rubber by TIRES, Inc. and RPMI. These products were sold to out-of-state markets. There were no in-state markets reported during the report period.

According to North Carolina tire recyclers, supply of crumb rubber exceeds demand nationally, and production capacity of existing plants is approximately two times larger than existing markets. Of the crumb rubber produced, about 25 percent is sold to out-of-state tire manufacturers. Some tire manufacturers can use 3 percent crumb rubber in manufacturing tires. Growth in this area is limited since tire buffings on the open market are much cheaper and cleaner than processed whole tires.

Crumb rubber 40 mesh is a commodity and can substitute for plastics and other polymers in manufacturing all types of products in the plastics industry. However, growth in this area will require a research and development commitment by large chemical companies. Eventually, crumb rubber will compete with virgin materials used by the plastics industry.

It currently costs approximately 12-14 cents per pound to make 40 mesh crumb. New technology is that can produce 40 mesh for about 8-10 cents and is economically competitive with other virgin materials is needed.

The N.C. Department of Transportation (NCDOT) approved seven projects during the years 1991 - 1993 which will utilize 124,512 tires. However, the crumb rubber was not purchased during FY 1992-1993 reporting period and will be purchased later.

Agricultural and Miscellaneous Products - 5.36 Percent of North Carolian Tires

RPMI, US Tire, and Central Carolina sold 366,600 tires annually for agricultural and other miscellaneous applications. Agricultural products include livestock bedding mats. Other miscellaneous items include mats, solid rubber wheels, barricades, and loading dock stops. Approximately 50 percent of these markets are in North Carolina.

Civil Engineering Applications - 2.95 Percent of North Carolina Tires - TIRES, Inc. and RPMI shredded and sold 202,300 tires for civil engineering applications. This includes tire chips for construction of road beds and embankments. The tire chips used are 1 to 6 inches, and do not require the more expensive processing required to produce 10 to 40 mesh crumb rubber.

This is more cost effective than producing crumb rubber for use in asphalt rubber. In projects approved by NCDOT the cost per tire is \$0.25 - \$0.43. By comparison, using crumb rubber as an asphalt modifier in projects approved to date has a median cost of \$3.45 per tire.

This offers potential for recycling tires from nuisance tire sites because these tires are often dirty and contain debris and water. North Carolina firms have been

reluctant to process such tires to crumb rubber. High maintenance costs make it more cost effective to process tires to tire chips for highway projects.

Landfill Disposal - 71 Percent of North Carolina Tires - US Tire Recycling and Central Carolina Recycling permitted tire monofills for tire disposal and landfilled 2,315,900 tires. Both facilities process tires prior to landfilling and can recover or "mine" the landfilled tires for future recycling markets.

Most of the remaining 2,558,577 tires were disposed by counties in local landfills.

6 COUNTY COSTS OF TIRE DISPOSAL

The reported costs for tire disposal (Appendix, Table 2) varied greatly and ranged from \$0.12 to \$18.90 per tire. Reported costs did not always include total direct costs (eg. labor, equipment, and site preparation) or indirect administrative costs. (Appendix, Table 2) Costs reported by the 100 counties are presented in the Appendix, Table 3. Over the three years the average costs per tire were:

	<u>FY 1990-1991</u>	<u>FY 1991-1992</u>	<u>FY 1992-1993</u>
Cost Per Tire	\$1.29	\$1.57	\$1.56

It is not known how much variation is due to errors in recordkeeping and reporting by the counties. While some counties underestimated costs, others reported costs which seem excessive when compared with other counties.

Some of the variation is due to geography. For example, counties that are close to US Tire Recycling, LP had lower shipping costs than distant counties. (Appendix, Table 2) Eighty-one counties reported tire disposal costs of \$1.56 or less, while seventeen counties reported costs of more than \$1.56 per tire. (Appendix, Table 3)

Since counties with lower disposal costs reported receiving the majority of the state's disposed tires, the actual average tire disposal cost was \$0.87 per tire. The number of reporting counties totaled 98 since Chowan, Perquimans, and Gates counties operate a single regional facility. Sampson County did not dispose tires which were collected during the reporting period.

7 TIRE DISPOSAL TAX REVENUE DISTRIBUTION

The state 1 percent tire disposal tax revenue was distributed to the counties on a per capita basis. This subsidized the counties for tire disposal costs, but did not cover total expenses in most counties.

The counties reported that \$3,637,903 was distributed to the 100 counties, which was less than the previous year.

	<u>FY 1990-1991</u>	<u>FY 1991-1992</u>	<u>FY 1992-1993</u>
Distribution of proceeds of disposal tax to the 100 counties	\$2,814,337	\$3,637,903	\$3,478,739

This provided an average of:

- a) \$0.51 for each of the 6.8 million scrap tires generated, and
- b) \$0.78 for each of the 5.3 million scrap tires reported managed by the counties.

The average amount of disposal tax revenue received per county was \$35,497. This was 73 percent of the average disposal costs of \$48,435 per county. (Appendix, Table 4)

The state revenue was not distributed based on need by the county. Eighty-three counties reported receiving inadequate funds to cover their tire disposal expenses. (Appendix, Table 4) Disposal costs varied greatly due to geography and other factors, but were not directly related to population. Reimbursement from the one percent tax based on population did not match actual needs in most counties. Thirteen counties received over 100 percent of actual tire disposal costs.

The shortfall in many counties led to a wide range of tipping fees being imposed. (Appendix, Table 5) Fees were lower in FY 1992-1993 than in the previous years. Fees averaged \$0.48 per tire in FY 1990-1991, \$0.37 per tire in FY 1991-1992, and \$0.30 per tire in FY 1992-1993. Effective January 1994, all counties must remove tipping fees for tires certified generated in North Carolina in the normal course of business. Reported tipping fees have declined over the past three years.

<u>Tire Disposal Fee</u>	<u>1990-1991</u> <u>No. of Counties</u>	<u>1991-1992</u> <u>No. of Counties</u>	<u>1992-1993</u> <u>No. of Counties</u>
\$ 0.00	36	33	43
\$ 0.01 - \$ 0.20	8	4	10
\$ 0.21 - \$ 0.40	16	8	16
\$ 0.41 - \$ 0.60	11	14	16
\$ 0.61 - \$ 0.80	11	15	6
\$ 0.81 - \$ 1.00	15	23	5
> \$ 1.00	1	1	2
Average fee	\$0.48	\$0.37	\$0.30

Note that a total of 98 counties reported disposal fees since Perquimans, Chowan, and Gates operate a single regional facility.

8 UNACCOUNTED TIRES

Many counties received fewer tires than the total estimated generated. (Appendix, Table 6) The counties reported disposing 5,329,340 tires, or 78 percent of the estimated total of 6.8 million scrap tires. By comparison, 83 percent of the scrap tires were managed by the counties in FY 1991-1992. The numbers managed by the counties were lower because many haulers carried tires directly to private facilities.

US Tire received 953,512 tires which were not managed by the county tire disposal programs. These tires, mostly from Mecklenburg county, were hauled directly to the monofill.

Combining the number of tires managed by the counties and tires hauled directly to US Tire shows that 6,282,852 tires or 92 percent of the total generated were legally disposed. The remaining 554,125 tires are unaccounted and include those illegally dumped in North Carolina woodlands, streams and roadsides. The numbers of unaccounted tires has decreased each year as shown below:

	<u>FY 1990-1991</u>	<u>FY 1991-1992</u>	<u>FY 1992-1993</u>
Total Number of Tires Generated	6,628,637	6,739,959	6,836,977
Total Number of Tires Accounted	5,110,300	6,104,457	6,282,852
Percentage Not Accounted	23%	10%	8%

9 SCRAP TIRE DISPOSAL ACCOUNT REPORT

The General Assembly created the Scrap Tire Disposal Account effective October 1, 1993 to assist counties where tire disposal costs exceed reimbursement through distribution of the 2 percent tax revenue (GS 130A-309.63). The first period covered was October 1, 1993 to March 31, 1994.

The Scrap Tire Disposal Account consists of 27 percent of the net tax proceeds of the 2 percent disposal tax. Up to 25 percent of the account will be used to fund grants to counties that incur losses in their tire management programs. The remainder is to be used to clean up nuisance tire sites.

Reports - The Division of Solid Waste Management will make quarterly reports on the account to the Environmental Review Commission.

Eligibility - As stated in GS 130A-309.63(c),

"A unit of local government is not eligible for a grant unless its costs for disposing of scrap tires for the six-month period preceding the date the unit of local government files an application for a grant exceeded the amount the unit of local government received during that period from the proceeds of the scrap tire tax under GS 105-187.19. A grant to a unit of local government may not exceed the unit of local government's unreimbursed cost for the six-month period."

Criteria for awarding grants - As stated in GS 136A-309.63,

"The criteria shall include the financial ability of a unit of local government to provide for scrap tire disposal, the severity of a unit of local government's scrap tire disposal problem, and the effort made by a unit of local government to provide for scrap tire disposal within the resources available to it."

APPENDIX

TABLE 1. COUNTY REPORTS OF TIRE DISPOSAL ACTIVITIES IN FY 1992-1993.

COUNTY	TIP FEE 92-93	TIP RECEIPTS	1% TAX PROCEEDS	TOTAL INCOME	NUMBER DISPOSED	TOTAL EXPENSES	NET SURPLUS OR NET LOSS	MEANS OF TIRE DISPOSAL
ALAMANCE	\$0.20	\$22,960.00	\$62,407.00	\$85,367.00	111,668	\$113,220.00	(\$27,853.00)	ALAMANCE CO LF
ALEXANDER	\$0.00	\$0.00	\$15,665.86	\$15,665.86	18,381	\$19,722.55	(\$4,056.69)	RESOURCE RECOVERY, ATLANTA
ALLEGHENY	\$0.00	\$0.00	\$3,943.14	\$3,943.14	6,130	\$5,893.60	(\$1,950.46)	US TIRE
ANSON	\$0.00	\$0.00	\$9,536.50	\$9,536.50	19,457	\$15,674.50	(\$6,138.00)	ANSON CO LF
ASHE	\$0.00	\$0.00	\$12,425.97	\$12,425.97	12,753	\$16,523.00	(\$4,097.03)	TIRES, INC
AVERY	\$0.00	\$0.00	\$7,827.00	\$7,827.00	7,387	\$10,820.00	(\$2,993.00)	US TIRE
BEAUFORT	\$0.00	\$0.00	\$23,000.00	\$23,000.00	63,569	\$56,542.00	(\$33,542.00)	BEAUFORT CO LF
BERTIE	\$0.00	\$0.00	\$11,225.17	\$11,225.17	700	\$13,227.62	(\$2,002.45)	PIEDMONT LF
BLADEN	\$0.00	\$0.00	\$16,073.00	\$16,073.00	30,666	\$19,548.44	(\$3,475.44)	BFI
BRUNSWICK	\$0.00	\$0.00	\$27,609.19	\$27,609.19	58,018	\$37,452.00	(\$9,842.81)	BRUNSWICK CO LF
BUNCOMBE	\$0.00	\$0.00	\$92,542.00	\$92,542.00	223,862	\$134,317.00	(\$41,775.00)	BUNCOMBE CO LF
BURKE	\$0.50	\$9,110.62	\$42,498.68	\$51,609.30	39,834	\$51,000.00	\$609.30	US TIRE
CABARRUS	\$0.00	\$0.00	\$55,777.01	\$55,777.01	123,100	\$51,419.62	\$4,357.39	US TIRE
CALDWELL	\$0.00	\$0.00	\$37,150.39	\$37,150.39	108,234	\$46,604.50	(\$9,454.11)	US TIRE
CAMDEN	\$0.00	\$0.00	\$2,422.00	\$2,422.00	3,513	\$2,713.00	(\$291.00)	VA RECYC CORP
CARTERET	\$1.00	\$50.00	\$29,703.00	\$29,753.00	22,300	\$28,593.00	\$1,160.00	CENTRAL CAROLINA
CASWELL	\$0.15	N/D	\$11,547.00	\$11,547.00	19,760	\$12,465.00	(\$918.00)	CASWELL CO LF
CATAWBA	\$0.20	\$28,567.00	\$62,757.00	\$91,324.00	137,210	\$112,514.00	(\$21,190.00)	COLF/TIRES, INC
CHATHAM	\$0.40	\$3,997.00	\$20,611.00	\$24,608.00	21,611	\$30,703.00	(\$6,095.00)	RPMI
CHEROKEE	\$0.50	\$1,800.00	\$10,803.00	\$12,603.00	9,583	\$13,230.00	(\$627.00)	WASTE RECOVERY, ATLANTA
CLAY	\$0.00	\$0.00	\$2,951.00	\$2,951.00	2,950	\$3,014.00	(\$63.00)	ALLEN RESEARCH/WALCO
CLEVELAND	\$0.30	\$12,122.04	\$47,288.94	\$59,410.98	94,862	\$99,127.59	(\$39,716.61)	US TIRE
COLUMBUS	\$0.35	\$4,129.62	\$33,608.72	\$37,738.34	60,000	\$33,609.70	\$4,128.64	COLUMBUS CO LF
Craven	\$0.25	\$14,413.00	\$45,693.00	\$60,106.00	47,076	\$70,550.00	(\$10,444.00)	CENTRAL CAROLINA TIRE
CUMBERLAND	\$0.21	\$55,348.00	\$113,252.00	\$168,600.00	152,361	\$184,722.00	(\$16,122.00)	BFI(SAMPSON CO & CLT)
CURRITUCK	\$0.00	\$0.00	\$8,297.85	\$8,297.85	5,459	\$11,964.64	(\$3,666.79)	SE PUBLIC SERVICE
DARE	\$0.00	\$0.00	\$9,300.63	\$9,300.63	24,132	\$20,880.85	(\$11,580.22)	VA RECYCLING CORP, SUFFOLK VA
DAVIDSON	\$0.30	\$29,220.60	\$52,433.12	\$81,653.72	97,902	\$81,653.72	\$0.00	TIRES, INC
DAVIE	\$0.45	\$4,488.16	\$14,870.53	\$19,358.69	8,429	\$22,600.30	(\$3,241.61)	US TIRE
DUPLIN	\$0.27	\$6,082.45	\$22,458.97	\$28,541.42	18,217	\$32,195.73	(\$3,654.31)	CENTRAL CAROLINA
DURHAM	\$0.27	\$42,329.84	\$102,996.30	\$145,326.14	142,351	\$130,505.63	\$14,820.51	TIRES, INC
EDGECOMBE	\$0.00	\$0.00	\$29,000.00	\$29,000.00	43,953	\$31,000.00	(\$2,000.00)	CENT CAR/TIRES,INC
FORSYTH	\$0.53	\$15,662.13	\$148,287.00	\$163,949.13	358,290	\$163,949.13	\$0.00	PIEDMONT/TIRES,INC/US TIRE
FRANKLIN	\$0.00	\$0.00	\$20,796.89	\$20,796.89	36,491	\$24,989.70	(\$4,192.81)	BFI/RPMI
GASTON	\$0.50	\$14,279.00	\$92,602.00	\$106,881.00	98,431	\$122,892.00	(\$16,011.00)	US TIRE
GRAHAM	\$0.00	\$0.00	\$4,023.00	\$4,023.00	7,138	\$8,085.00	(\$4,062.00)	MINDIS RECYC-ATL,GA
GRANVILLE	\$0.20	\$5,500.00	\$20,529.54	\$26,029.54	34,032	\$25,623.00	\$406.54	RPMI
GREENE	\$0.00	\$0.00	\$8,141.01	\$8,141.01	49,742	\$15,949.65	(\$7,808.64)	CENTRAL CAROLINA
GUILFORD	\$0.10	N/D	\$193,999.92	\$193,999.92	392,109	\$313,825.19	(\$119,825.27)	GREENSBORO MUNICIPAL LF
HALIFAX	\$0.00	\$0.00	\$31,096.69	\$31,096.69	18,600	\$28,225.00	\$2,871.69	US TIRE
HARNETT	\$0.50	\$2,249.00	\$37,880.00	\$40,129.00	9,500	\$41,810.00	(\$1,681.00)	CENT CAR
HAYWOOD	\$0.00	\$0.00	\$25,018.83	\$25,018.83	40,079	\$49,504.57	(\$24,485.74)	WASTE RECOVERY, ATLANTA
HENDERSON	\$0.25	\$10,886.00	\$37,278.17	\$48,164.17	68,400	\$51,363.29	(\$3,199.12)	US TIRE/TIRES, INC

TABLE 1. COUNTY REPORTS OF TIRE DISPOSAL ACTIVITIES IN FY 1992 - 1993.

COUNTY	TIP FEE 92-93	TIP RECEIPTS	1% TAX PROCEEDS	TOTAL INCOME	NUMBER DISPOSED	TOTAL EXPENSES	NET SURPLUS OR NET LOSS	MEANS OF TIRE DISPOSAL
HERTFORD	\$0.50	\$200.00	\$12,544.24	\$12,744.24	15,687	\$20,700.00	(\$7,955.76)	TIRES INC
HOKE	\$0.75	\$6,891.75	\$14,713.17	\$21,604.92	18,394	\$13,635.04	\$7,969.88	RPMI
HYDE	\$0.00	\$0.00	\$2,925.78	\$2,925.78	3,248	\$5,628.00	(\$2,702.22)	SUFFOLD REG LF, SUFFOLK VA
IREDELL	\$0.30	\$17,366.00	\$50,475.00	\$67,841.00	88,880	\$129,450.00	(\$61,609.00)	BFI
JACKSON	\$0.00	\$0.00	\$10,084.37	\$10,084.37	7,300	\$11,033.75	(\$949.38)	WASTE RECOVERY, ATLANTA
JOHNSTON	\$0.20	\$6,325.40	\$46,274.23	\$52,599.63	125,193	\$95,329.54	(\$42,729.91)	US TIRE/CENT CAR
JONES	\$0.50	\$762.00	\$5,199.84	\$5,961.84	8,200	\$8,000.00	(\$2,038.16)	JONES CO LF (SLICED)
LEE	\$0.75	\$2,203.00	\$18,684.61	\$20,887.61	5,609	\$20,887.61	\$0.00	CENTRAL CAROLINA/RPMI
LENOIR	\$0.00	\$0.00	\$31,967.25	\$31,967.25	75,900	\$46,995.00	(\$15,027.75)	WASTE MGMT -- KERNERSVILLE
LINCOLN	\$0.50	\$12,673.50	\$28,236.00	\$40,909.50	27,600	\$57,000.00	(\$16,090.50)	TIRES, INC
MACON	\$0.50	\$6,975.00	\$12,601.00	\$19,576.00	18,726	\$24,318.00	(\$4,742.00)	WASTE RECOVERY - ATL, GA
MADISON	\$0.00	\$0.00	\$8,893.98	\$8,893.98	21,750	\$26,739.17	(\$17,845.19)	US TIRE
MARTIN	\$0.00	\$0.00	\$10,205.44	\$10,205.44	26,650	\$26,478.00	(\$16,272.56)	PIEDMONT LF, KERNERSVILLE
MCDOWELL	\$0.80	\$193.00	\$18,722.00	\$18,915.00	27,880	\$23,478.00	(\$4,563.00)	PIEDMONT LF
MECKLENBURG	\$1.00	\$438.35	\$274,652.00	\$275,090.35	323,654	\$222,925.00	\$52,165.35	US TIRE
MITCHELL	\$0.00	\$0.00	\$7,456.21	\$7,456.21	18,000	\$14,003.00	(\$6,546.79)	TIRES, INC
MONTGOMERY	\$0.35	\$6,430.27	\$9,494.73	\$15,925.00	27,700	\$17,555.80	(\$1,630.80)	CENTRAL CAROLINA
MOORE	\$1.00	\$7,433.00	\$31,464.00	\$38,897.00	7,290	\$46,130.00	(\$7,233.00)	CENTRAL CAROLINA
NASH	\$0.00	\$0.00	\$40,673.00	\$40,673.00	54,424	\$45,868.88	(\$5,195.88)	TIRES, INC
NEW HANOVER	\$4.00	\$74,299.60	\$64,574.63	\$138,874.23	185,750	\$153,242.54	(\$14,368.31)	US TIRE
NORTHAMPTON	\$0.00	\$0.00	\$11,000.00	\$11,000.00	12,200	\$11,375.00	(\$375.00)	US TIRE
ONSLow	\$0.25	\$15,496.18	\$80,052.60	\$95,548.78	72,092	\$65,592.64	\$29,956.14	CENTRAL CAROLINA
ORANGE	\$0.50	\$17,019.00	\$58,818.00	\$75,837.00	26,740	\$43,100.00	\$32,737.00	US TIRE
PAMLICO	\$1.00	\$779.00	\$6,000.31	\$6,779.31	732	\$13,545.79	(\$6,766.48)	RPMI
PASQUOTANK	\$1.00	\$586.00	\$17,356.80	\$17,942.80	36,496	\$48,097.80	(\$30,155.00)	SE PUBLIC SERVICE AUTHORITY
PENDER	\$0.30	\$5,100.00	\$12,223.00	\$17,323.00	17,000	\$14,535.00	\$2,788.00	CENTRAL CAROLINA TIRE
PE/CH/GA*	\$0.50	\$7,802.50	\$17,578.79	\$25,381.29	10,211	\$24,877.67	\$503.62	SOUTHEASTERN TIRE RECYCLERS
PERSON	\$0.20	\$5,541.40	\$15,857.05	\$21,398.45	27,707	\$23,551.16	(\$2,152.71)	RPMI
PITT	\$0.00	\$0.00	\$60,804.00	\$60,804.00	149,400	\$70,000.00	(\$9,196.00)	PITT CO LF
POLK	\$0.00	\$0.00	\$7,701.22	\$7,701.22	9,898	\$8,732.90	(\$1,031.68)	N/D
RANDOLPH	\$0.20	\$21,177.70	\$59,793.05	\$80,970.75	105,900	\$76,703.96	\$4,266.79	RANDOLPH CO LF
RICHMOND	\$0.00	\$0.00	\$24,850.00	\$24,850.00	38,728	\$48,380.00	(\$23,530.00)	N/D
ROCKINGHAM	\$0.50	\$8,032.60	\$47,840.52	\$55,873.12	26,156	\$57,036.70	(\$1,163.58)	US TIRE/RPMI
ROBESON	\$0.75	\$51,480.00	\$38,457.00	\$89,937.00	62,400	\$83,269.00	\$6,668.00	ROBESON CO LF
ROWAN	\$0.10	\$5,121.00	\$58,769.00	\$63,890.00	58,062	\$68,507.00	(\$4,617.00)	US TIRE
RUTHERFORD	\$0.50	\$13,980.00	\$31,788.38	\$45,768.38	36,940	\$45,768.38	\$0.00	US TIRE
SAMPSON	\$0.00	\$0.00	\$25,116.95	\$25,116.95	3,000	\$0.00	\$25,116.95	STOCKPILED
SCOTLAND	\$1.00	\$10,447.00	\$18,935.00	\$29,382.00	18,000	\$17,100.00	\$12,282.00	CENTRAL CAROLINA/STOCKPILED
STANLEY	\$0.00	\$0.00	\$27,410.00	\$27,410.00	72,016	\$30,151.00	(\$2,741.00)	ALBEMARLE CITY LF
STOKES	\$0.00	\$0.00	\$19,838.00	\$19,838.00	31,410	\$20,168.90	(\$330.90)	US TIRE
SURRY	\$0.00	\$0.00	\$34,551.36	\$34,551.36	79,027	\$31,610.80	\$2,940.56	SURRY CO LF
SWAIN	\$0.00	\$0.00	\$6,229.00	\$6,229.00	11,615	\$8,835.50	(\$2,606.50)	WASTE RECOVERY, ATLANTA
TRANSYLVANIA	\$0.75	\$6,968.45	\$17,440.67	\$24,409.12	12,744	\$11,469.60	\$12,939.52	US TIRE

TABLE 1. COUNTY REPORTS OF TIRE DISPOSAL ACTIVITIES IN FY 1992-1993.

COUNTY	TIP FEE 92-93	TIP RECEIPTS	1% TAX PROCEEDS	TOTAL INCOME	NUMBER DISPOSED	TOTAL EXPENSES	NET SURPLUS OR NET LOSS	MEANS OF TIRE DISPOSAL
TYRRELL	\$0.00	\$0.00	\$2,104.46	\$2,104.46	1,669	\$2,264.60	(\$160.14)	SUFFOLKVA SE PUBLIC AUTH.
UNION	\$0.30	\$3,626.85	\$45,245.16	\$48,872.01	33,244	\$50,102.00	(\$1,229.99)	US TIRE/RPMI
VANCE	\$0.00	\$0.00	\$21,759.18	\$21,759.18	23,088	\$25,892.13	(\$4,132.95)	N/D
WAKE	\$0.50	\$52,686.00	\$165,116.00	\$217,802.00	127,648	\$207,572.00	\$10,230.00	CENTRAL CAROLINA
WARREN	\$0.75	\$3,977.00	\$9,763.00	\$13,740.00	5,161	\$17,671.00	(\$3,931.00)	WARREN CO LF
WASHINGTON	\$0.40	\$8,700.20	\$7,265.65	\$15,965.85	10,026	\$16,660.00	(\$694.15)	INTERSTATE TIRE
WATAUGA	\$0.10	\$5,304.10	\$19,246.90	\$24,551.00	23,327	\$22,815.35	\$1,735.65	US TIRE
WAYNE	\$0.00	\$0.00	\$58,823.95	\$58,823.95	122,934	\$106,088.25	(\$47,264.30)	US TIRE
WILKES	\$0.50	\$10,291.00	\$31,618.81	\$41,909.81	16,414	\$29,013.00	\$12,896.81	N/D
WILSON	\$0.00	\$0.00	\$36,853.57	\$36,853.57	76,545	\$38,272.50	(\$1,418.93)	WILSON CO LF
YADKIN	\$0.25	\$2,119.75	\$17,153.80	\$19,273.55	19,501	\$22,321.77	(\$3,048.22)	TIRES, INC/USED FOR LF ROAD
YANCY	\$0.00	\$0.00	\$8,209.15	\$8,209.15	15,234	\$16,009.55	(\$7,800.40)	US TIRE
TOTALS		\$681,621.06	\$3,478,739.83	\$4,160,360.89	5,329,340	\$4,746,711.80	(\$586,350.91)	
AVERAGES	\$0.30	\$6,955.32	\$35,497.35	\$42,452.66	54,381	\$48,435.83	(\$5,983.17)	

TABLE 2. EXPENSES INCURRED BY NORTH CAROLINA COUNTIES FOR TIRE DISPOSAL IN 1990-1993.

COUNTY	---FY 1990-1991---		---FY 1991-1992---		---FY 1992-1993---	
	TOTAL COSTS	COST PER TIRE	TOTAL COSTS	COST PER TIRE	TOTAL COSTS	COST PER TIRE
ALAMANCE	\$64,034.00	\$0.64	\$83,442.00	\$0.75	\$113,220.00	\$1.01
ALEXANDER	\$15,719.00	\$1.31	\$13,905.80	\$0.97	\$19,722.55	\$1.07
ALLEGHENY	\$4,806.09	\$0.78	\$5,096.25	\$0.99	\$5,893.60	\$0.96
ANSON	\$14,694.00	\$1.30	\$17,047.60	\$1.27	\$15,674.50	\$0.81
ASHE	\$10,273.50	\$0.78	\$10,361.75	\$0.63	\$16,523.00	\$1.30
AVERY	\$8,722.00	\$1.25	\$9,462.65	\$0.95	\$10,820.00	\$1.46
BEAUFORT	\$48,000.00	\$1.00	\$51,895.00	\$1.57	\$56,542.00	\$0.89
BERTIE	\$2,620.00	\$2.18	\$7,729.65	\$12.88	\$13,227.62	\$18.90
BLADEN	\$14,508.16	\$0.48	\$33,000.00	\$0.51	\$19,548.44	\$0.64
BRUNSWICK	\$34,000.00	\$0.52	\$31,015.82	\$0.09	\$37,452.00	\$0.65
BUNCOMBE	\$306,040.00	\$2.04	\$137,517.60	\$0.52	\$134,317.00	\$0.60
BURKE	\$76,000.00	\$0.75	\$79,000.00	\$1.05	\$51,000.00	\$1.28
CABARRUS	\$24,289.13	\$0.53	\$66,707.78	\$1.49	\$51,419.62	\$0.42
CALDWELL	\$37,346.35	\$1.53	\$43,050.00	\$0.81	\$46,604.50	\$0.43
CAMDEN	\$1,500.00	\$0.71	\$2,838.00	\$1.18	\$2,713.00	\$0.77
CARTERET	\$33,000.00	\$1.65	\$28,155.00	\$0.69	\$28,593.00	\$1.28
CASWELL	\$985.00	\$0.33	\$7,179.60	\$1.11	\$12,465.00	\$0.63
CATAWBA	\$104,000.00	\$1.00	\$111,381.00	\$0.69	\$112,514.00	\$0.82
CHATHAM	\$22,281.00	\$1.59	\$34,091.00	\$1.43	\$30,703.00	\$1.42
CHEROKEE	\$15,000.00	\$1.50	\$27,750.00	\$1.85	\$13,230.00	\$1.38
CLAY	\$917.15	\$0.85	\$3,584.00	\$0.85	\$3,014.00	\$1.02
CLEVELAND	\$57,407.27	\$2.08	\$79,163.93	\$1.32	\$99,127.59	\$1.04
COLUMBUS	\$18,948.07	\$1.35	NO DATA	\$0.00	\$33,609.70	\$0.56
CRAVEN	\$41,200.00	\$0.41	\$56,652.00	\$1.68	\$70,550.00	\$1.50
CUMBERLAND	\$590,644.30	\$0.82	\$366,825.00	\$2.77	\$184,722.00	\$1.21
CURRITUCK	\$6,400.00	\$1.03	\$5,034.00	\$1.65	\$11,964.64	\$2.19
DARE	\$9,295.00	\$0.45	\$29,592.50	\$1.33	\$20,880.85	\$0.87
DAVIDSON	\$60,321.00	\$0.70	\$103,815.70	\$0.86	\$81,653.72	\$0.83
DAVIE	\$13,050.00	\$1.05	\$24,272.30	\$1.31	\$22,600.30	\$2.68
DUPLIN	\$19,470.00	\$3.44	\$67,762.28	\$0.91	\$32,195.73	\$1.77
DURHAM	\$131,305.85	\$1.00	\$131,762.00	\$1.01	\$130,505.63	\$0.92
EDGECOMBE	\$52,500.00	\$2.10	\$31,959.00	\$0.33	\$31,000.00	\$0.71
FORSYTH	\$143,678.00	\$0.52	\$242,592.00	\$0.53	\$163,949.13	\$0.46
FRANKLIN	\$8,975.00	\$0.63	\$13,071.88	\$0.55	\$24,989.70	\$0.68
GASTON	\$61,928.64	\$1.98	\$101,017.96	\$1.18	\$122,892.00	\$1.25
GRAHAM	\$850.00	\$1.00	\$6,160.00	\$1.42	\$8,085.00	\$1.13
GRANVILLE	\$31,219.77	\$0.87	\$36,977.97	\$1.48	\$25,623.00	\$0.75
GREENE	\$12,549.26	\$1.53	\$15,131.68	\$1.69	\$15,949.65	\$0.32
GUILFORD	\$98,109.46	\$0.39	\$157,123.47	\$0.50	\$313,825.19	\$0.80
HALIFAX	\$4,774.00	\$2.64	\$6,037.55	\$1.68	\$28,225.00	\$1.52
HARNETT	\$33,534.00	\$4.99	\$37,550.00	\$5.24	\$41,810.00	\$4.40
HAYWOOD	\$28,827.84	\$1.33	\$40,747.80	\$1.41	\$49,504.57	\$1.24
HENDERSON	\$30,254.30	\$1.26	\$37,280.00	\$1.49	\$51,363.29	\$0.75
HERTFORD	\$18,000.00	\$0.90	\$15,725.50	\$3.24	\$20,700.00	\$1.32
HOKE	\$14,306.00	\$0.62	\$19,206.16	\$1.14	\$13,635.04	\$0.74
HYDE	\$4,876.00	\$2.09	\$4,876.00	\$1.63	\$5,628.00	\$1.73
IREDELL	\$75,288.15	\$1.10	\$94,086.00	\$0.85	\$129,450.00	\$1.46
JACKSON	\$5,909.00	\$0.85	\$12,759.30	\$1.60	\$11,033.75	\$1.51
JOHNSTON	\$45,119.00	\$1.92	\$66,941.02	\$1.41	\$95,329.54	\$0.76
JONES	\$8,000.00	\$0.36	\$18,000.00	\$0.74	\$8,000.00	\$0.98
LEE	\$26,885.00	\$3.17	\$22,467.98	\$2.30	\$20,887.61	\$3.72
LENOIR	\$31,157.77	\$1.14	\$41,014.70	\$1.51	\$46,995.00	\$0.62
LINCOLN	\$40,000.00	\$1.00	\$52,000.00	\$0.82	\$57,000.00	\$2.07
MACON	\$35,000.00	\$2.29	\$14,093.00	\$1.17	\$24,318.00	\$1.30
MADISON	\$7,650.15	\$1.44	\$12,511.05	\$1.20	\$26,739.17	\$1.23
MARTIN	\$12,782.00	\$1.13	\$19,236.00	\$0.96	\$26,478.00	\$0.99

TABLE 2. EXPENSES INCURRED BY NORTH CAROLINA COUNTIES FOR TIRE DISPOSAL IN 1990-1993.

COUNTY	---FY 1990-1991---		---FY 1991-1992---		---FY 1992-1993---	
	TOTAL COSTS	COST PER TIRE	TOTAL COSTS	COST PER TIRE	TOTAL COSTS	COST PER TIRE
MCDOWELL	\$18,995.46	\$0.86	\$24,195.15	\$0.92	\$23,478.00	\$0.84
MECKLENBURG	\$113,128.08	\$0.39	\$187,623.02	\$0.61	\$222,925.00	\$0.69
MITCHELL	\$5,735.36	\$0.85	\$14,130.15	\$0.91	\$14,003.00	\$0.78
MONTGOMERY	\$16,414.65	\$1.15	\$21,468.71	\$1.08	\$17,555.80	\$0.63
MOORE	\$23,743.00	\$2.46	\$42,810.00	\$4.02	\$46,130.00	\$6.33
NASH	\$2,659.91	\$0.09	\$9,544.00	\$0.69	\$45,868.88	\$0.84
NEW HANOVER	\$64,514.66	\$0.65	\$109,472.52	\$0.88	\$153,242.54	\$0.82
NORTHAMPTON	\$1,451.25	\$1.62	\$10,500.00	\$8.76	\$11,375.00	\$0.93
ONslow	\$16,145.00	\$1.00	\$137,264.65	\$0.93	\$65,592.64	\$0.91
ORANGE	\$40,121.31	\$1.79	\$82,252.00	\$1.11	\$43,100.00	\$1.61
PAMLICO	\$8,541.28	\$0.76	NO DATA	\$0.00	\$13,545.79	\$18.51
PASQUOTANK	\$21,574.80	\$0.70	\$29,927.50	\$0.77	\$48,097.80	\$1.32
PENDER	\$17,882.16	\$1.79	\$17,670.00	\$2.04	\$14,535.00	\$0.86
PE/CH/GA*	\$20,019.10	\$2.67	\$12,744.00	\$5.95	\$24,877.67	\$2.44
PERSON	\$14,869.50	\$0.65	\$25,655.49	\$0.74	\$23,551.16	\$0.85
PITT	\$65,000.00	\$0.59	\$70,000.00	\$0.57	\$70,000.00	\$0.47
POLK	\$7,494.00	\$2.50	\$8,979.60	\$0.70	\$8,732.90	\$0.88
RANDOLPH	\$58,080.00	\$0.73	\$77,896.00	\$0.64	\$76,703.96	\$0.72
RICHMOND	\$11,200.00	\$1.24	\$47,286.91	\$1.44	\$48,380.00	\$1.25
ROCKINGHAM	\$62,653.63	\$0.96	\$39,254.30	\$1.78	\$57,036.70	\$2.18
ROBESON	\$76,237.00	\$1.47	\$76,237.00	\$3.61	\$83,269.00	\$1.33
ROWAN	\$50,652.00	\$3.77	\$65,376.00	\$0.94	\$68,507.00	\$1.18
RUTHERFORD	\$42,952.68	\$1.57	\$45,767.62	\$1.52	\$45,768.38	\$1.24
SAMPSON	\$29,000.00	\$0.19	\$9,410.99	\$9.79	\$0.00	N/A
SCOTLAND	\$15,368.32	\$1.18	\$25,115.00	\$1.41	\$17,100.00	\$0.95
STANLEY	\$45,000.00	\$3.52	NO DATA	NO DATA	\$30,151.00	\$0.42
STOKES	\$15,030.70	\$0.90	\$12,968.00	\$0.87	\$20,168.90	\$0.64
SURRY	\$32,985.00	\$0.46	\$33,483.00	\$0.37	\$31,610.80	\$0.40
SWAIN	NO DATA	\$0.00	\$8,170.00	\$1.00	\$8,835.50	\$0.76
TRANSYLVANIA	\$17,488.00	\$2.21	\$10,240.00	\$2.84	\$11,469.60	\$0.90
TYRRELL	\$8,600.00	\$4.28	\$4,511.30	\$1.73	\$2,264.60	\$1.36
UNION	\$116,483.00	\$1.33	\$82,267.00	\$1.21	\$50,102.00	\$1.51
VANCE	\$14,687.50	\$0.67	\$36,487.74	\$1.75	\$25,892.13	\$1.12
WAKE	\$206,188.00	\$1.00	\$459,725.00	\$1.74	\$207,572.00	\$1.63
WARREN	\$14,385.38	\$0.36	\$13,833.00	\$1.07	\$17,671.00	\$3.42
WASHINGTON	\$13,500.00	\$0.97	\$15,762.50	\$0.86	\$16,660.00	\$1.66
WATAUGA	\$19,003.60	\$0.88	\$19,725.26	\$1.12	\$22,815.35	\$0.98
WAYNE	\$30,594.20	\$1.50	\$95,447.40	\$1.19	\$106,088.25	\$0.86
WILKES	\$40,469.89	\$0.78	\$29,188.37	\$1.87	\$29,013.00	\$1.77
WILSON	\$45,450.00	\$0.50	\$47,842.50	\$0.20	\$38,272.50	\$0.50
YADKIN	\$15,338.00	\$2.36	\$38,572.33	\$1.58	\$22,321.77	\$1.14
YANCY	\$11,877.00	\$1.01	\$15,640.85	\$0.97	\$16,009.55	\$1.05
TOTALS	\$4,070,463.63		\$4,902,101.09		\$4,746,711.80	
AVERAGES	\$41,535.34	\$1.29	\$50,021.44	\$1.57	\$48,435.83	\$1.56

*Perquimans/Chowan/Gates regional facility

TABLE 3. COUNTIES INCURRING TIRE DISPOSAL COSTS BELOW AND ABOVE THE STATE AVERAGE OF \$1.55 PER TIRE.

-- ABOVE AVERAGE --		--- BELOW AVERAGE ---									
BERTIE	\$18.90	ALAMANCE	\$1.01	CLEVELAND	\$1.04	IREDELL	\$1.46	POLK	\$0.88		
CURRITUCK	\$2.19	ALEXANDER	\$1.07	COLUMBUS	\$0.56	JACKSON	\$1.51	RANDOLPH	\$0.72		
DAVIE	\$2.68	ALLEGHENY	\$0.96	CRAVEN	\$1.50	JOHNSTON	\$0.76	RICHMOND	\$1.25		
DUPLIN	\$1.77	ANSON	\$0.81	CUMBERLAND	\$1.21	JONES	\$0.98	ROBESON	\$1.33		
HARNETT	\$4.40	ASHE	\$1.30	DARE	\$0.87	LENOIR	\$0.62	ROWAN	\$1.18		
HYDE	\$1.73	AVERY	\$1.46	DAVIDSON	\$0.83	MACON	\$1.30	RUTHERFORD	\$1.24		
LEE	\$3.72	BEAUFORT	\$0.89	DURHAM	\$0.92	MADISON	\$1.23	SAMPSON	\$0.00		
LINCOLN	\$2.07	BLADEN	\$0.64	EDGECOMB	\$0.71	MARTIN	\$0.99	SCOTLAND	\$0.95		
MOORE	\$6.33	BRUNSWICK	\$0.65	FORSYTH	\$0.12	MCDOWELL	\$0.84	STANLEY	\$0.42		
ORANGE	\$1.61	BUNCOMBE	\$0.60	FRANKLIN	\$0.68	MECKLENBU	\$0.69	STOKES	\$0.64		
PAMLICO	\$18.51	BURKE	\$1.28	GASTON	\$1.25	MITCHELL	\$0.78	SURRY	\$0.40		
PE/CH/GA*	\$2.44	CABARRUS	\$0.42	GRAHAM	\$1.13	MONTGOMERY	\$0.63	SWAIN	\$0.76		
ROCKINGHAM	\$2.18	CALDWELL	\$0.43	GRANVILLE	\$0.75	NASH	\$0.84	TRANSYLVIA	\$0.90		
WAKE	\$1.63	CAMDEN	\$0.77	GREENE	\$0.32	NEW HANOVER	\$0.82	TYRRELL	\$1.36		
WARREN	\$3.42	CARTERET	\$1.28	GUILFORD	\$0.80	NORTHAMPTON	\$0.93	UNION	\$1.51		
WASHINGTON	\$1.66	CASWELL	\$0.63	HALIFAX	\$1.52	ONSLow	\$0.91	VANCE	\$1.12		
WILKES	\$1.77	CATAWBA	\$0.82	HAYWOOD	\$1.24	PASQUOTANK	\$1.32	WATAUGA	\$0.98		
		CHATHAM	\$1.42	HENDERSON	\$0.75	PENDER	\$0.86	WAYNE	\$0.86		
		CHEROKEE	\$1.38	HERTFORD	\$1.32	PERSON	\$0.85	WILSON	\$0.50		
		CLAY	\$1.02	HOKE	\$0.74	PITT	\$0.47	YADKIN	\$1.14		
								YANCY	\$1.05		

TABLE 4. PERCENTAGE OF COUNTY TIRE PROGRAM EXPENSES MET BY THE 1% STATE TIRE DISPOSAL TAX REVENUE RECEIVED
 JULY 1992 - JUNE 1993.

COUNTY	SHARE OF 1% TAX RECEIVED	COST OF TIRE PROGRAM	PERCENT - AGE OF COSTS COVERED	COUNTY	SHARE OF 1% TAX RECEIVED	COST OF TIRE PROGRAM	PERCENT - AGE OF COSTS COVERED
ALAMANCE	\$62,407.00	\$113,220.00	55%	HALIFAX	\$31,096.69	\$28,225.00	110%
ALEXANDER	\$15,665.86	\$19,722.55	79%	HARNETT	\$37,880.00	\$41,810.00	91%
ALLEGHENY	\$3,943.14	\$5,893.60	67%	HAYWOOD	\$25,018.83	\$49,504.57	51%
ANSON	\$9,536.50	\$15,674.50	61%	HENDERSON	\$37,278.17	\$51,363.29	73%
ASHE	\$12,425.97	\$16,523.00	75%	HERTFORD	\$12,544.24	\$20,700.00	61%
AVERY	\$7,827.00	\$10,820.00	72%	HOKE	\$14,713.17	\$13,635.04	108%
BEAUFORT	\$23,000.00	\$56,542.00	41%	HYDE	\$2,925.78	\$5,628.00	52%
BERTIE	\$11,225.17	\$13,227.62	85%	IREDELL	\$50,475.00	\$129,450.00	39%
BLADEN	\$16,073.00	\$19,548.44	82%	JACKSON	\$10,084.37	\$11,033.75	91%
BRUNSWICK	\$27,609.19	\$37,452.00	74%	JOHNSTON	\$46,274.23	\$95,329.54	49%
BUNCOMBE	\$92,542.00	\$134,317.00	69%	JONES	\$5,199.84	\$8,000.00	65%
BURKE	\$42,498.68	\$51,000.00	83%	LENOIR	\$31,967.25	\$46,995.00	68%
CABARRUS	\$55,777.01	\$51,419.62	108%	LINCOLN	\$28,236.00	\$57,000.00	50%
CALDWELL	\$37,150.39	\$46,604.50	80%	MACON	\$12,601.00	\$24,318.00	52%
CAMDEN	\$2,422.00	\$2,713.00	89%	MADISON	\$8,893.98	\$26,739.17	33%
CARTERET	\$29,703.00	\$28,593.00	104%	MARTIN	\$10,205.44	\$26,478.00	39%
CASWELL	\$11,547.00	\$12,465.00	93%	MCDOWELL	\$18,722.00	\$23,478.00	80%
CATAWBA	\$62,757.00	\$112,514.00	56%	MECKLENBURG	\$274,652.00	\$222,925.00	123%
CHATHAM	\$20,611.00	\$30,703.00	67%	MITCHELL	\$7,456.21	\$14,003.00	53%
CHEROKEE	\$10,803.00	\$13,230.00	82%	MONTGOMERY	\$9,494.73	\$17,555.80	54%
CLAY	\$2,951.00	\$3,014.00	98%	MOORE	\$31,464.00	\$46,130.00	68%
CLEVELAND	\$47,288.94	\$99,127.59	48%	NASH	\$40,673.00	\$45,868.88	89%
COLUMBUS	\$33,608.72	\$33,609.70	100%	NEW HANOVER	\$64,574.63	\$153,242.54	42%
Craven	\$45,693.00	\$70,550.00	65%	NORTHAMPTON	\$11,000.00	\$11,375.00	97%
CUMBERLAND	\$113,252.00	\$184,722.00	61%	ONSLOW	\$80,052.60	\$65,592.64	122%
CURRITUCK	\$8,297.85	\$11,964.64	69%	ORANGE	\$58,818.00	\$43,100.00	136%
DARE	\$9,300.63	\$20,880.85	45%	PAMLICO	\$6,000.31	\$13,545.79	44%
DAVIDSON	\$52,433.12	\$81,653.72	64%	PASQUOTANK	\$17,356.80	\$48,097.80	36%
DAVIE	\$14,870.53	\$22,600.30	66%	PENDER	\$12,223.00	\$14,535.00	84%
DUPLIN	\$22,458.97	\$32,195.73	70%	PE/CH/GA*	\$17,578.79	\$24,877.67	71%
DURHAM	\$102,996.30	\$130,505.63	79%	PERSON	\$15,857.05	\$23,551.16	67%
EDGECOMBE	\$29,000.00	\$31,000.00	94%	PITT	\$60,804.00	\$70,000.00	87%
FORSYTH	\$148,287.00	\$163,949.13	90%	POLK	\$7,701.22	\$8,732.90	88%
FRANKLIN	\$20,796.89	\$24,989.70	83%	RANDOLPH	\$59,793.05	\$76,703.96	78%
GASTON	\$92,602.00	\$122,892.00	75%	RICHMOND	\$24,850.00	\$48,380.00	51%
GRAHAM	\$4,023.00	\$8,065.00	50%	ROCKINGHAM	\$47,840.52	\$57,036.70	84%
GRANVILLE	\$20,529.54	\$25,623.00	80%	ROBESON	\$38,457.00	\$83,269.00	46%
GREENE	\$8,141.01	\$15,949.65	51%	ROWAN	\$58,769.00	\$68,507.00	86%
GUILFORD	\$193,999.92	\$313,825.19	62%	RUTHERFORD	\$31,788.38	\$45,768.38	69%

*Perquimans/Chowan/Gates regional facility

TABLE 4. PERCENTAGE OF COUNTY TIRE PROGRAM EXPENSES MET BY THE 1% STATE TIRE DISPOSAL TAX REVENUE RECEIVED
 JULY 1992 – JUNE 1993.

COUNTY	SHARE OF 1% TAX RECEIVED	COST OF TIRE PROGRAM	PERCENT – AGE OF COSTS COVERED	COUNTY	SHARE OF 1% TAX RECEIVED	COST OF TIRE PROGRAM	PERCENT – AGE OF COSTS COVERED
SAMPSON	\$25,116.95	\$0.00		WARREN	\$9,763.00	\$17,671.00	55%
SCOTLAND	\$18,935.00	\$17,100.00	111%	WASHINGTON	\$7,265.65	\$16,660.00	44%
STANLEY	\$27,410.00	\$30,151.00	91%	WATAUGA	\$19,246.90	\$22,815.35	84%
STOKES	\$19,838.00	\$20,168.90	98%	WAYNE	\$58,823.95	\$106,088.25	55%
SURRY	\$34,551.36	\$31,610.80	109%	WILKES	\$31,618.81	\$29,013.00	109%
SWAIN	\$6,229.00	\$8,835.50	70%	WILSON	\$36,853.57	\$38,272.50	96%
TRANSYLVANIA	\$17,440.67	\$11,469.60	152%	YADKIN	\$17,153.80	\$22,321.77	77%
TYRRELL	\$2,104.46	\$2,264.60	93%	YANCY	\$8,209.15	\$16,009.55	51%
UNION	\$45,245.16	\$50,102.00	90%				
VANCE	\$21,759.18	\$25,892.13	84%	TOTALS	\$3,478,739.83	\$4,746,711.80	
WAKE	\$165,116.00	\$207,572.00	80%	AVERAGES	\$35,497.35	\$48,435.83	73%

TABLE 5. TIRE TIP FEES CHARGED BY NORTH CAROLINA COUNTIES IN 1990–1993.

COUNTY	---FY 1990–1991---		---FY 1991–1992---		---FY 1992–1993---	
	TIP FEES	TOTAL RECEIPTS	TIP FEES	TOTAL RECEIPTS	TIP FEES	TOTAL RECEIPTS
ALAMANCE	\$0.20	\$19,930.20	\$0.20	\$22,126.40	\$0.20	\$22,960.00
ALEXANDER	\$0.75	\$3,219.00	\$0.75	\$6,221.86	\$0.00	\$0.00
ALLEGHENY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ANSON	\$0.30	\$4,050.00	\$0.30	\$4,971.60	\$0.00	\$0.00
ASHE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AVERY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BEAUFORT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BERTIE	\$0.90	\$2,620.00	\$0.90	\$18.50	\$0.00	\$0.00
BLADEN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BRUNSWICK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BUNCOMBE	\$0.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BURKE	\$0.75	\$38,000.00	\$0.50	\$40,000.00	\$0.50	\$9,110.62
CABARRUS	\$0.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CALDWELL	\$0.70	\$3,769.60	\$0.00	\$0.00	\$0.00	\$0.00
CAMDEN	\$1.00	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00
CARTERET	\$0.00	\$1,000.00	\$0.00	\$0.00	\$1.00	\$50.00
CASWELL	\$2.00	\$243.40	\$0.15	NO DATA	\$0.15	NO DATA
CATAWBA	\$0.00	\$0.00	\$0.20	\$24,610.07	\$0.20	\$28,567.00
CHATHAM	\$1.00	\$2,400.00	\$1.00	\$5,329.00	\$0.40	\$3,997.00
CHEROKEE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50	\$1,800.00
CLAY	\$1.00	\$138.00	\$0.00	\$0.00	\$0.00	\$0.00
CLEVELAND	\$0.12	\$5,909.52	\$0.30	\$8,521.04	\$0.30	\$12,122.04
COLUMBUS	\$0.80	\$1,940.27	\$0.35	\$2,107.22	\$0.35	\$4,129.62
CRAVEN	\$0.25	\$5,334.00	\$0.25	\$11,001.85	\$0.25	\$14,413.00
CUMBERLAND	\$0.80	\$53,940.70	\$1.75	\$47,922.00	\$0.21	\$55,348.00
CURRITUCK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DARE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DAVIDSON	\$0.35	\$30,524.84	\$0.30	\$35,942.00	\$0.30	\$29,220.60
DAVIE	\$1.00	\$5,495.00	\$0.45	\$4,470.05	\$0.45	\$4,488.16
DUPLIN	\$0.75	\$4,810.00	\$0.75	\$5,048.85	\$0.27	\$6,082.45
DURHAM	\$1.00	\$42,934.40	\$0.40	\$55,376.60	\$0.27	\$42,329.84
EDGECOMBE	\$0.63	\$3,500.00	\$0.00	\$0.00	\$0.00	\$0.00
FORSYTH	\$0.50	\$22,418.87	\$0.54	\$47,996.00	\$0.53	\$15,662.13
FRANKLIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GASTON	\$0.50	\$18,734.00	\$0.50	\$15,204.74	\$0.50	\$14,279.00
GRAHAM	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GRANVILLE	\$0.20	\$6,000.00	\$0.20	\$4,983.60	\$0.20	\$5,500.00
GREENE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GUILFORD	\$0.40	\$11,034.00	\$0.25	\$0.00	\$0.10	NO DATA
HALIFAX	\$1.00	\$3,307.00	\$1.00	\$2,791.00	\$0.00	\$0.00
HARNETT	\$1.00	\$4,218.50	\$1.00	\$3,564.00	\$0.50	\$2,249.00
HAYWOOD	\$1.00	\$1,087.00	\$0.00	\$0.00	\$0.00	\$0.00
HENDERSON	\$0.50	\$11,500.50	\$0.25	\$11,696.00	\$0.25	\$10,886.00
HERTFORD	\$0.00	\$0.00	\$0.50	\$100.00	\$0.50	\$200.00
HOKE	\$0.00	\$0.00	\$0.75	\$5,587.50	\$0.75	\$6,891.75
HYDE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
IREDELL	\$0.50	\$31,653.50	\$0.30	\$23,289.00	\$0.30	\$17,366.00
JACKSON	\$0.50	\$61.20	\$0.00	\$0.00	\$0.00	\$0.00
JOHNSTON	\$1.00	\$8,093.00	\$0.18	\$497.68	\$0.20	\$6,325.40
JONES	\$1.00	\$282.00	\$1.00	\$243.00	\$0.50	\$762.00
LEE	\$1.00	\$5,502.00	\$1.00	\$3,919.50	\$0.75	\$2,203.00
LENOIR	\$0.60	\$5,255.56	\$0.75	\$5,518.40	\$0.00	\$0.00
LINCOLN	\$0.00	\$0.00	\$0.50	\$10,359.00	\$0.50	\$12,673.50
MACON	\$0.00	\$0.00	\$0.50	\$4,245.00	\$0.50	\$6,975.00

TABLE 5. TIRE TIP FEES CHARGED BY NORTH CAROLINA COUNTIES IN 1990-1993.

COUNTY	---FY 1990-1991---		---FY 1991-1992---		---FY 1992-1993---	
	TIP FEES	TOTAL RECEIPTS	TIP FEES	TOTAL RECEIPTS	TIP FEES	TOTAL RECEIPTS
MADISON	\$0.38	\$1,290.30	\$0.25	\$1,190.75	\$0.00	\$0.00
MARTIN	\$0.50	\$2,651.00	\$0.00	\$0.00	\$0.00	\$0.00
MCDOWELL	\$0.80	\$540.40	\$0.66	\$579.60	\$0.80	\$193.00
MECKLENBURG	\$1.00	\$0.00	\$1.00	\$0.00	\$1.00	438.35
MITCHELL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MONTGOMERY	\$0.35	\$5,000.36	\$0.35	\$6,361.18	\$0.35	\$6,430.27
MOORE	\$1.00	\$4,721.00	\$1.00	\$7,528.00	\$1.00	\$7,433.00
NASH	\$1.00	\$750.00	\$1.00	\$1,480.00	\$0.00	\$0.00
NEW HANOVER	\$0.55	\$15,164.84	\$0.30	\$49,323.40	\$4.00	\$74,299.60
NORTHAMPTON	\$1.00	\$936.00	\$1.00	\$1,696.76	\$0.00	\$0.00
ONSLow	\$1.00	\$10,586.00	\$0.00	\$0.00	\$0.25	\$15,496.18
ORANGE	\$1.00	\$22,410.00	\$1.00	\$8,100.00	\$0.50	\$17,019.00
PAMLICO	\$1.00	\$9,484.00	\$1.00	\$9,958.00	\$1.00	\$779.00
PASQUOTANK	\$0.00	\$131.00	\$1.00	\$3,188.00	\$1.00	\$586.00
PENDER	\$0.30	\$4,889.35	\$0.30	\$2,785.10	\$0.30	\$5,100.00
PE/CH/GA*	\$0.50	\$3,284.00	\$0.50	\$2,206.00	\$0.50	\$7,802.50
PERSON	\$0.00	\$0.00	\$0.14	\$4,867.66	\$0.20	\$5,541.40
PITT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
POLK	\$0.75	\$859.00	\$0.50	\$1,127.25	\$0.00	\$0.00
RANDOLPH	\$1.00	\$9,408.00	\$0.20	\$24,160.00	\$0.20	\$21,177.70
RICHMOND	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ROCKINGHAM	\$0.80	\$38,420.75	\$0.80	\$18,113.60	\$0.50	\$8,032.60
ROBESON	\$0.75	\$38,000.00	\$0.75	\$19,608.00	\$0.75	\$51,480.00
ROWAN	\$0.33	\$1,612.00	\$0.25	\$3,474.00	\$0.10	\$5,121.00
RUTHERFORD	\$0.50	\$13,658.50	\$0.78	\$15,080.50	\$0.50	\$13,980.00
SAMPSON	\$1.00	\$3,000.00	\$1.00	\$1,667.50	\$0.00	\$0.00
SCOTLAND	\$1.00	\$6,970.90	\$1.00	\$6,438.00	\$1.00	\$10,447.00
STANLEY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
STOKES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SURRY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SWAIN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRANSYLVANIA	\$0.75	\$4,364.00	\$0.75	\$2,049.00	\$0.75	\$6,968.45
TYRRELL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
UNION	\$0.00	\$0.00	\$0.26	\$9,047.29	\$0.30	\$3,626.85
VANCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WAKE	\$0.50	\$103,094.00	\$0.50	\$96,679.00	\$0.50	\$52,686.00
WARREN	\$0.00	\$0.00	\$0.75	\$3,977.00	\$0.75	\$3,977.00
WASHINGTON	\$0.50	\$3,254.15	\$0.40	\$7,087.00	\$0.40	\$8,700.20
WATAUGA	\$0.10	\$780.00	\$0.10	\$1,241.10	\$0.10	\$5,304.10
WAYNE	\$1.00	\$11,919.25	\$0.00	\$3,308.75	\$0.00	\$0.00
WILKES	\$0.50	\$4,616.25	\$0.50	\$8,436.00	\$0.50	\$10,291.00
WILSON	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YADKIN	\$0.75	\$2,881.50	\$0.75	\$2,638.50	\$0.25	\$2,119.75
YANCY	\$0.75	\$791.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTALS		\$684,423.61		\$737,058.40		\$681,621.06
AVERAGES	\$0.48	\$6,983.91	\$0.37	\$7,521.00	\$0.30	\$6,955.32

TABLE 6. NUMBERS OF TIRES UNACCOUNTED IN 1990 - 1993.

COUNTY	-----FY 1990-1991-----			-----FY 1991-1992-----			-----FY 1992-1993-----		
	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED
ALAMANCE	106,956	99,651	7%	109,119	110,626	-1%	109,978	111,668	-2%
ALEXANDER	28,035	12,000	57%	28,434	14,313	50%	28,076	18,381	35%
ALLEGHENY	9,992	6,186	38%	9,749	5,123	47%	9,884	6,130	38%
ANSON	26,221	11,264	57%	23,144	13,456	42%	23,543	19,457	17%
ASHE	23,486	13,148	44%	22,439	16,351	27%	22,434	12,753	43%
AVERY	15,505	7,000	55%	14,946	10,000	33%	14,999	7,387	51%
BEAUFORT	42,238	48,135	-14%	42,411	32,994	22%	42,841	63,569	-48%
BERTIE	21,009	1,200	94%	20,154	600	97%	20,508	700	97%
BLADEN	31,011	30,000	3%	29,065	64,440	-122%	28,647	30,666	-7%
BRUNSWICK	51,535	65,273	-27%	52,721	337,183	-540%	54,519	58,018	-6%
BUNCOMBE	175,580	150,000	15%	176,714	265,222	-50%	180,265	223,862	-24%
BURKE	77,759	101,000	-30%	76,793	75,000	2%	76,901	39,834	48%
CABARRUS	97,295	45,888	53%	100,878	44,831	56%	103,917	123,100	-18%
CALDWELL	71,463	24,382	66%	70,941	52,997	25%	71,829	108,234	-51%
CAMDEN	6,221	2,127	66%	5,987	2,397	60%	5,952	3,513	41%
CARTERET	51,464	20,007	61%	53,721	40,735	24%	55,159	22,300	60%
CASWELL	22,200	3,000	86%	20,829	6,449	69%	20,956	19,760	6%
CATAWBA	118,427	103,838	12%	119,837	161,400	-35%	121,418	137,210	-13%
CHATHAM	37,456	14,000	63%	39,358	23,829	39%	40,725	21,611	47%
CHEROKEE	21,146	10,000	53%	20,629	15,000	27%	20,726	9,583	54%
CLAY	7,191	1,085	85%	7,295	4,217	42%	7,184	2,950	59%
CLEVELAND	87,762	27,626	69%	85,304	60,086	30%	85,976	94,862	-10%
COLUMBUS	52,720	14,000	73%	49,904	19,167	62%	50,134	60,000	-20%
CRAVEN	82,513	100,800	-22%	82,489	33,697	59%	83,709	47,076	44%
CUMBERLAND	263,515	720,000	-173%	279,995	132,634	53%	283,405	152,361	46%
CURRITUCK	14,305	6,234	56%	13,844	3,042	78%	14,566	5,459	63%
DARE	22,789	20,468	10%	22,994	22,210	3%	23,260	24,132	-4%
DAVIDSON	125,632	86,173	31%	129,631	120,313	7%	132,259	97,902	26%
DAVIE	27,886	12,426	55%	28,396	18,495	35%	28,869	8,429	71%
DUPLIN	42,084	5,658	87%	40,616	74,334	-83%	41,066	18,217	56%
DURHAM	174,536	131,302	25%	186,540	131,000	30%	187,911	142,351	24%
EDGECOMB	59,274	25,000	58%	57,180	95,814	-68%	56,642	43,953	22%
FORSYTH	266,721	275,760	-3%	267,237	455,064	-70%	269,678	358,290	-33%
FRANKLIN	36,001	14,360	60%	37,738	23,916	37%	38,794	36,491	6%
GASTON	174,227	31,213	82%	176,828	85,809	51%	176,874	98,431	44%
GRAHAM	7,097	850	88%	7,241	4,344	40%	7,115	7,138	0%
GRANVILLE	39,451	36,000	9%	39,202	24,918	36%	39,713	34,032	14%
GREENE	16,478	8,200	50%	15,546	8,932	43%	15,987	49,742	-211%

TABLE 6. NUMBERS OF TIRES UNACCOUNTED IN 1990 - 1993.

COUNTY	-----FY 1990-1991-----			-----FY 1991-1992-----			-----FY 1992-1993-----		
	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED
GUILFORD	339,109	248,856	27%	349,764	317,145	9%	354,477	392,109	-11%
HALIFAX	56,761	1,807	97%	56,154	3,600	94%	56,638	18,600	67%
HARNETT	67,007	6,716	90%	68,278	7,166	90%	70,820	9,500	87%
HAYWOOD	48,026	21,675	55%	47,775	29,000	39%	48,323	40,079	17%
HENDERSON	70,370	24,010	66%	71,185	25,100	65%	72,252	68,400	5%
HERTFORD	23,423	20,000	15%	22,620	4,851	79%	22,280	15,687	30%
HOKE	24,249	23,074	5%	22,886	16,885	26%	23,594	18,394	22%
HYDE	5,678	2,328	59%	5,535	3,000	46%	5,379	3,248	40%
IREDELL	92,552	68,144	26%	96,384	110,700	-15%	96,865	88,880	8%
JACKSON	27,392	6,936	75%	27,404	7,960	71%	27,537	7,300	73%
JOHNSTON	81,510	23,500	71%	83,977	47,600	43%	86,515	125,193	-45%
JONES	9,922	22,000	-122%	9,347	24,213	-159%	9,461	8,200	13%
LEE	42,482	8,489	80%	41,845	9,755	77%	43,138	5,609	87%
LENOIR	59,996	27,231	55%	57,697	27,111	53%	58,351	75,900	-30%
LINCOLN	49,403	40,000	19%	50,966	63,100	-24%	51,999	27,600	47%
MACON	23,849	15,308	36%	24,062	12,070	50%	24,656	18,726	24%
MADISON	17,353	5,299	69%	17,069	10,400	39%	17,230	21,750	-26%
MARTIN	26,062	11,311	57%	25,231	19,992	21%	25,750	26,650	-3%
MCDOWELL	36,429	22,000	40%	35,751	26,294	26%	36,000	27,880	23%
MECKLENBU	485,804	291,640	40%	524,463	305,886	42%	536,403	323,654	40%
MITCHELL	14,615	6,748	54%	14,236	15,450	-9%	14,495	18,000	-24%
MONTGOMERY	24,550	14,217	42%	23,474	19,871	15%	23,528	27,700	-18%
MOORE	60,083	9,640	84%	60,083	10,640	82%	61,417	7,290	88%
NASH	73,545	30,000	59%	77,668	13,758	82%	79,373	54,424	31%
NEW HANOVER	118,983	99,974	16%	123,309	124,958	-1%	127,928	185,750	-45%
NORTHAMPTON	21,977	896	96%	20,818	1,199	94%	20,732	12,200	41%
ONSLOW	131,526	16,104	88%	152,865	147,215	4%	144,004	72,092	50%
ORANGE	90,922	22,410	75%	96,302	74,040	23%	99,674	26,740	73%
PAMLICO	10,952	11,182	-2%	11,458	7,081	38%	11,449	732	94%
PASQUOTANK	31,433	30,750	2%	31,212	38,748	-24%	31,994	36,496	-14%
PENDER	27,982	10,000	64%	30,218	8,672	71%	30,950	17,000	45%
PE/CH/GA*	34,754	7,500	78%	33,568	2,142	94%	33,967	10,211	70%
PERSON	31,426	23,000	27%	30,280	34,769	-15%	30,769	27,707	10%
PITT	103,889	110,000	-6%	109,904	123,800	-13%	113,147	149,400	-32%
POLK	15,040	3,000	80%	14,706	12,740	13%	15,085	9,898	34%
RANDOLPH	104,380	80,000	23%	107,946	120,800	-12%	109,227	105,900	3%
RICHMOND	45,929	9,000	80%	44,839	32,870	27%	45,204	38,728	14%
ROCKINGHAM	86,261	65,537	24%	86,152	22,000	74%	86,206	26,156	70%

*Perquimans/Chowan/Gates regional facility

TABLE 6. NUMBERS OF TIRES UNACCOUNTED IN 1990 - 1993.

COUNTY	-----FY 1990-1991-----			-----FY 1991-1992-----			-----FY 1992-1993-----		
	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED	NUMBER OF TIRES GENERATED	NUMBER DISPOSED	% NOT ACCTED
ROBESON	107,640	52,000	52%	105,257	21,144	80%	107,294	62,400	42%
ROWAN	108,031	13,418	88%	112,223	69,321	38%	112,764	58,062	49%
RUTHERFORD	58,222	27,317	53%	57,325	30,159	47%	57,763	36,940	36%
SAMPSON	50,749	150,000	-196%	47,962	961	98%	48,303	3,000	94%
SCOTLAND	34,385	13,000	62%	34,211	17,851	48%	34,287	18,000	48%
STANLEY	51,833	12,777	75%	52,342	58,037	-11%	53,015	72,016	-36%
STOKES	37,116	16,679	55%	37,881	14,903	61%	38,190	31,410	18%
SURRY	62,481	72,000	-15%	62,387	91,312	-46%	62,771	79,027	-26%
SWAIN	11,026	1,500	86%	11,191	8,170	27%	11,244	11,615	-3%
TRANSYLVIA	26,336	7,900	70%	25,940	3,600	86%	26,338	12,744	52%
TYRRELL	4,196	2,011	52%	3,765	2,614	31%	3,887	1,669	57%
UNION	86,396	87,600	0%	86,398	67,900	21%	88,248	33,244	62%
VANCE	39,217	21,900	44%	39,095	20,808	47%	39,078	23,088	41%
WAKE	400,193	206,188	48%	442,803	264,686	40%	459,544	127,648	72%
WARREN	16,607	40,000	-141%	17,329	12,916	25%	17,448	5,161	70%
WASHINGTON	14,506	13,975	4%	13,874	18,421	-33%	13,989	10,026	28%
WATAUGA	35,262	21,640	39%	37,097	17,552	53%	37,760	23,327	38%
WAYNE	100,311	20,357	80%	106,330	80,174	25%	107,130	122,934	-15%
WILKES	61,162	51,972	15%	60,378	15,649	74%	60,379	16,414	73%
WILSON	65,961	90,900	-38%	66,443	236,165	-255%	66,868	76,545	-14%
YADKIN	30,543	6,500	79%	31,018	24,476	21%	31,628	19,501	38%
YANCY	16,005	11,716	27%	15,430	16,105	-4%	15,813	15,234	4%
TOTALS	6,568,983	4,666,886		6,739,959	5,586,443		6,836,977	5,329,340	
AVERAGES	67,030	47,621	29%	68,775	57,005	17%	69,765	54,381	23%

North Carolina Department of Environment, Health, and Natural Resources

Division of Solid Waste Management

Solid Waste Section

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