

**South Carolina**

# **SOLID WASTE MANAGEMENT**

**Annual Report**



**FISCAL YEAR  
2010**

**Table of Contents**

**SECTION 1: By the Numbers..... 3**

**SECTION 2: Executive Summary..... 5**

    Regional Comparison ..... 7

    Greenhouse Gas Emissions ..... 8

    Recommendations..... 9

**SECTION 3: MSW Recycling: Commodities ..... 11**

    Glass..... 12

    Metal..... 14

    Paper..... 16

    Plastic..... 18

    Banned Items ..... 20

    Miscellaneous Items ..... 22

    Mixed Recyclables..... 24

**SECTION 4: Used Motor Oil Recycling ..... 25**

**SECTION 5: Recycling Data for State Agencies & Colleges/Universities ..... 27**

    State Agencies..... 28

    Colleges/Universities..... 29

**SECTION 6: The State & Counties at a Glance..... 31**

**SECTION 7: Disposal Data ..... 51**

**SECTION 8: Solid Waste Planning ..... 65**

    Local Planning Responsibilities ..... 65

    State Planning Responsibilities ..... 66

    Demonstration of Need..... 66

**SECTION 9: Full-Cost Disclosure..... 77**

**SECTION 10: Permitted Solid Waste Facilities ..... 83**

**SECTION 11: Index..... 88**

# INTRODUCTION

The mission of the S.C. Department of Health and Environmental Control (DHEC) is to promote and protect the health of the public and the environment. The proper management of solid waste is essential to meeting that overall mission.

This is accomplished in part through the S.C. Solid Waste Policy and Management Act of 1991 (Act), which establishes the framework for safe and efficient solid waste management in the state. The Act provides a wide-ranging outline for state and local governments to follow. The Act, for example, authorizes DHEC to establish solid waste regulations. The Act requires DHEC to develop a state solid waste management plan (State Plan) and for regions or counties to develop solid waste management plans that are consistent with the State Plan. The Act sets statewide recycling and disposal goals.

The Act also requires DHEC to publish an annual report – based in part on the information that counties provide – on solid waste management for the previous fiscal year (FY). “The S.C. Solid Waste Management Annual Report” must be submitted to the Governor and General Assembly each year by March 15.

The report includes:

- an overview of the amount and/or composition of waste that is recycled, disposed of and incinerated;
- the progress of the state and each county toward meeting the state’s recycling and disposal goals;
- revisions to the State Plan; and
- recommendations to the Governor and General Assembly for improving solid waste management.

This report – which reflects solid waste management activities in FY 2010 (July 1, 2009 to June 30, 2010) – measures and defines two specific types of solid waste: municipal solid waste (MSW); and total solid waste (TSW). MSW is mostly comprised of waste generated by households, businesses, institutions, offices and non-profits. TSW is comprised of MSW as well as construction and demolition (C&D) debris, land-clearing debris and industrial solid waste. See page 6 for the definition of MSW and TSW.

The distinctions between TSW and MSW are important. TSW, for example, reflects all solid waste and provides a more comprehensive look at how much material is generated, disposed of and, most importantly, kept out of landfills by recycling. MSW, conversely, is

limited by definition and reflects specific activities and material.

The Act requires each county to report the amount of MSW recycled within its jurisdiction as well as requires each local government and private company that operates permitted solid waste facilities to report on the amount of MSW and TSW disposed of annually to DHEC.

When the Act became law in 1991, the state's recycling and disposal goals were based on TSW. In 2000, the state adopted the U.S. Environmental Protection Agency's (EPA) definition for measuring only MSW. As a result of this change, the state's current recycling and disposal goals are based on MSW – with some exceptions to EPA's definition.

In an effort to improve this report several changes have been made. The Solid Waste Planning and Demonstration of Need (DON) sections have been combined. The DON tables have been recalculated based on newly submitted reports and revised regulations. New disposal tables have been added.

And finally, the methodology of determining the environmental benefits of recycling has been revised.

This report provides an overview of solid waste management in South Carolina and:

- provides the amount of MSW and TSW recycled and disposed of in a county or region;
- measures the effectiveness of recycling programs and disposal facilities;
- presents projected landfill capacity and other future needs; and
- encourages and promotes waste reduction and recycling efforts.

In addition, this report updates the State Plan by providing the latest data through its charts and tables.

**“The S.C. Solid Waste Management Annual Report for FY10” was published on March 15, 2011.**

## About this Report ...

“The South Carolina Solid Waste Management Annual Report for Fiscal Year 2010” is submitted by the S.C. Department of Health and Environmental Control (DHEC) in compliance with S.C. Code Section 44-96-60 of the S.C. Solid Waste Policy and Management Act of 1991. Additionally, Act 119 of 2005 mandates that agencies provide all reports to the General Assembly in an electronic format.

This report was published on March 15, 2011 by DHEC's Division of Mining and Solid Waste Management.

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# BY THE NUMBERS...

**TABLE 1.1: S.C. Population<sup>1</sup> by Fiscal Year (FY)**

FY10 <sup>2</sup>	4,576,446
FY09	4,494,435
FY08	4,428,393
FY07	4,343,204

**TABLE 1.2: S.C. Recycling Data by FY**

	FY07	FY08	FY09	FY10
Total Solid Waste (TSW) Recycled in Tons	8,629,979	4,961,704	3,239,918	2,781,003
TSW Recycling Rate by Percent	50.2	38.5	29.5	26.7
TSW Recycled Per Capita in Pounds Per Person Per Day (p/p/d)	10.9	6.1	3.9	3.4
Municipal Solid Waste (MSW) <sup>3</sup> Recycled in Tons	1,551,365	1,084,926	912,961	1,063,521
MSW Recycling Rate by Percent (Goal: 35 percent)	31.0	24.4	22.1	25.5
MSW Recycled Per Capita in p/p/d	2.0	1.3	1.1	1.3

**TABLE 1.3: S.C. Waste Generated by FY (Recycling + Disposal)**

	FY07	FY08	FY09	FY10
TSW Generated in Tons	17,175,379	12,899,740	10,983,364	10,383,703 <sup>6</sup>
TSW Generated Per Capita in p/p/d	21.7	16.0	13.4	12.5
MSW Generated in Tons	5,012,022	4,452,348	4,139,373	4,176,886
MSW Generated Per Capita in p/p/d	6.3	5.5	5.0	5.0

**TABLE 1.4: S.C. Disposal Data by FY<sup>4</sup>**

	FY07	FY08	FY09	FY10
<b>Total Solid Waste Disposal</b>				
In-state Origin	8,545,399 <sup>5</sup>	7,938,036	7,789,143	7,602,701 <sup>6</sup>
Out-of-state Origin	1,826,292 <sup>5</sup>	1,524,305	1,252,697	878,445
TOTAL	10,371,691 <sup>5</sup>	9,462,341	9,041,841	8,481,146 <sup>6</sup>
<b>Disposal in Class 1 Landfills in Tons</b>				
In-state Origin	—	128,429	72,484	64,739
Out-of-state Origin	—	5,032	1,008	902
TOTAL	—	133,461	73,492	65,641
<b>Disposal in Class 2 Landfills in Tons</b>				
In-state Origin	2,214,413	2,839,181	3,060,497	2,950,933
Out-of-state Origin	55,432	68,790	77,869	75,567
TOTAL	2,269,845	2,907,971	3,138,366	3,026,500
<b>Disposal in Class 3 Landfills in Tons</b>				
In-state Origin	4,799,980	4,745,007	4,446,897	4,533,336
Out-of-state Origin	1,758,149	1,450,483	1,173,820	801,977
TOTAL	6,558,129	6,195,490	5,620,718	5,335,313
<b>Combustion in MSW Incinerators in Tons</b>				
In-state Origin	224,919	212,118	188,757	69,215
Out-of-state Origin	—	—	—	—
TOTAL	224,919	212,118	188,757	69,215
<b>Disposal in Land-clearing Debris Incinerators in Tons</b>				
In-state Origin	21,997	13,301	20,508	6,781
Out-of-state Origin	—	—	—	—
TOTAL	21,997	13,301	20,508	6,781
<b>Disposal in p/p/d</b>				
TSW Disposal Per Capita	10.8	9.8	9.5	9.1
MSW Disposal Per Capita (Goal ≤ 3.5 p/p/d)	4.4	4.2	3.9	3.7

1. Population data (used to determine recycling and disposal rates) comes from the U.S. Census Bureau. Note that the population data includes adjustments made by a local government.

2. FY10 represents July 1, 2009 to June 30, 2010.

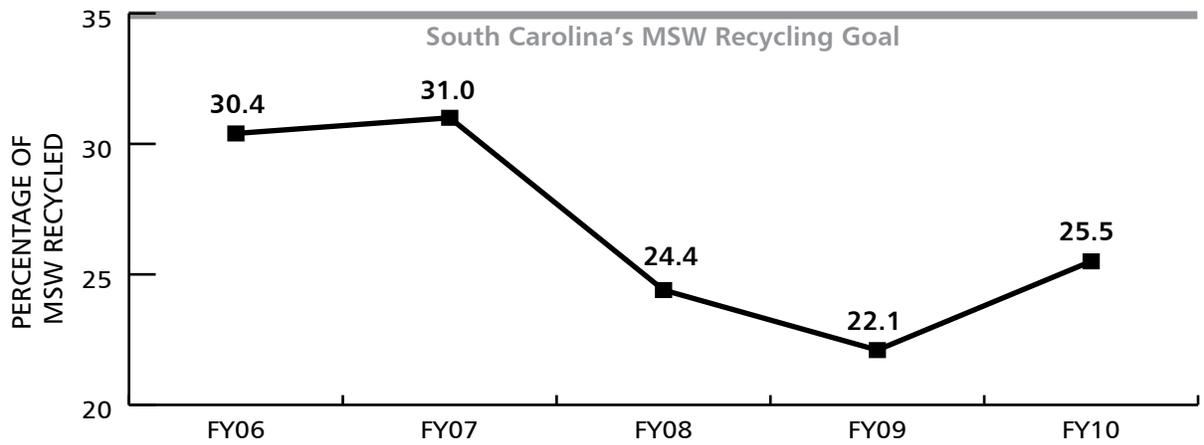
3. South Carolina's definition of MSW is on page 6.

4. Some totals do not add up due to rounding of numbers.

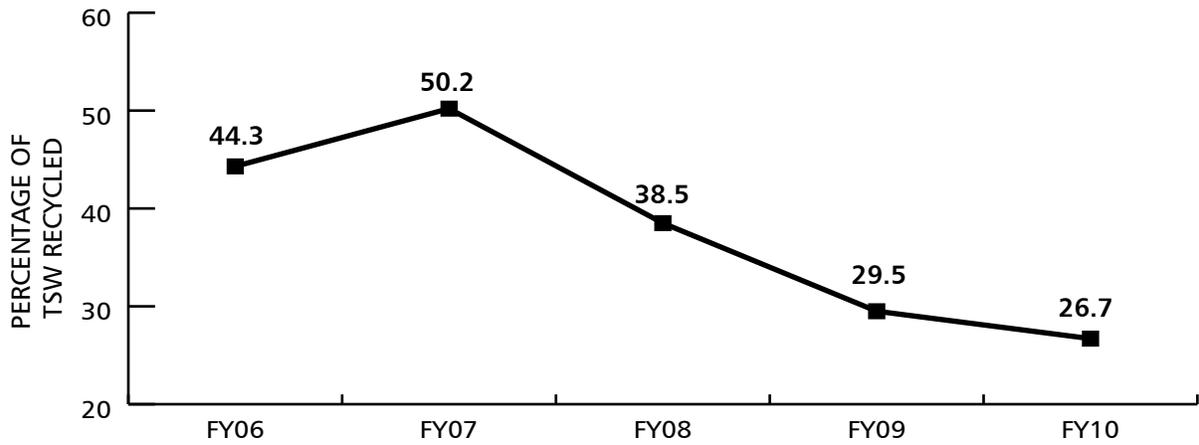
5. These numbers include 1,296,800 tons disposed of in industrial solid waste landfills.

6. These numbers do not include the 22,304 tons of ash disposed of at Charleston County Bees Ferry Landfill.

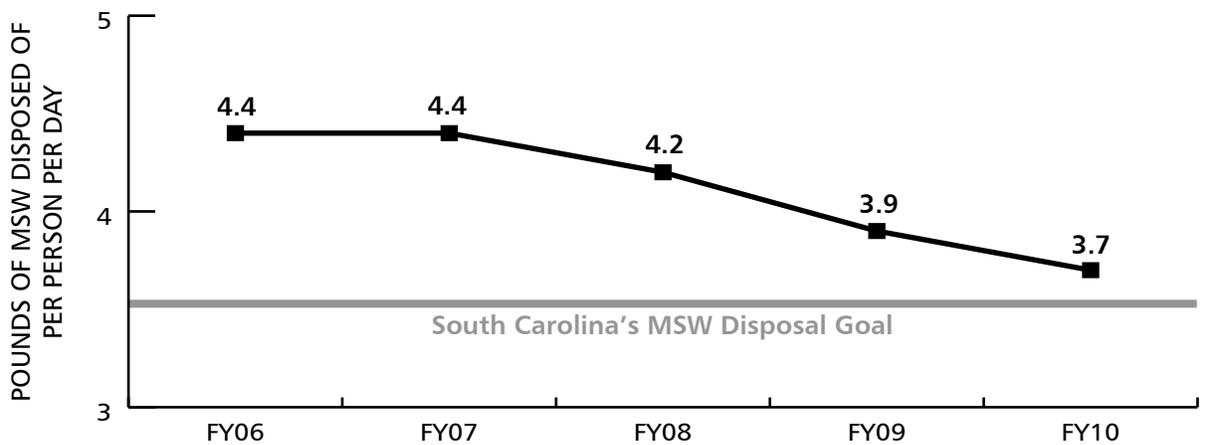
**CHART 1.5: South Carolina's MSW Recycling Rate, FY06 to FY10**



**CHART 1.6: South Carolina's TSW Recycling Rate, FY06 to FY10**



**CHART 1.7: MSW Disposed of Per Person Per Day, FY06 to FY10**



# EXECUTIVE SUMMARY

This report provides a comprehensive overview of the amount of solid waste generated, disposed of and recycled in South Carolina for fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010) as required by the S.C. Solid Waste Policy and Management Act of 1991 (Act).

Two specific types of solid waste – municipal solid waste (MSW) and total solid waste (TSW) – are defined and measured. The emphasis of this report is on MSW as required by the Act. MSW is comprised of waste generated by households, businesses, institutions, offices and non-profits.

This report also measures South Carolina's progress toward meeting the state's MSW recycling and disposal goals. The Act, as amended in 2000, set a recycling goal of 35 percent of the MSW generated and a disposal goal of 3.5 pounds or less of MSW per person per day (p/p/d).

Overall, the amount of MSW generated (recycled plus disposed of) in FY10 was 4,176,886 tons. Of that amount:

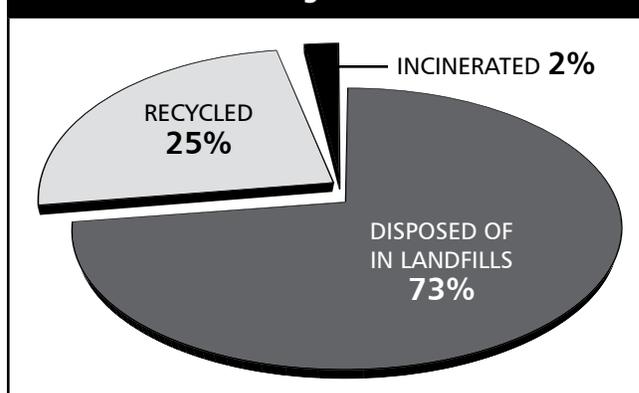
- 1,063,521 tons (25 percent) were recycled;
- 3,044,150 tons (73 percent) were disposed of in Class 3 landfills; and
- 69,215 tons (2 percent) were disposed of at the incinerator in Charleston County.

## Economic Benefits of Recycling

Recycling has often-overlooked economic benefits.

- Thirty-eight counties and 29 cities reported revenue of nearly \$10 million from the sale of recyclables in FY10.
- The recycling of 1,063,521 tons of MSW saved more than \$39 million in avoided disposal costs. This is calculated by multiplying the tons of MSW recycled in FY10 by the average Class 3 landfill tipping fee of \$37.

CHART 2.1: MSW Management in South Carolina



## MSW Management For FY10

RECYCLED.....	1,063,521 tons
<b>DISPOSED OF IN MSW FACILITIES</b>	
Landfills .....	3,044,150 tons
Incinerator .....	69,215 tons
<b>TOTAL.....</b>	<b>3,113,365 TONS</b>

## MSW Recycled

Glass .....	15,457 tons
Metal.....	293,135 tons
Paper.....	353,173 tons
Plastic.....	15,841 tons
Banned Items .....	314,175 tons <sup>1</sup>
Miscellaneous Items .....	42,093 tons <sup>2</sup>
Mixed Recyclables .....	29,648 tons
<b>TOTAL .....</b>	<b>1,063,521 TONS<sup>3</sup></b>

1. Banned items are appliances, lead-acid batteries, whole tires, used motor oil (from do-it-yourself oil changers) and yard trimmings.
2. Miscellaneous items include: antifreeze; consumer electronics; cooking oil; fluorescent bulbs; food scraps (post-consumer only); hazardous household materials; inkjet and toner cartridges; mattresses; paint; rechargeable batteries; textiles; used motor oil filters; wood packaging; other wood (such as furniture and cabinets); and other non-packaging products.
3. Commodity totals do not add up to the recycling total due to rounding of numbers.

## What is the definition of MSW?

MSW has many definitions across the country. For example, many states, when measuring their recycling efforts, count construction and demolition (C&D) debris, land-clearing debris, automobile bodies, industrial solid waste and even biosolids – thereby increasing their overall recycling rate. In contrast, South Carolina does not count any of that material in its measured recycling rate. A recent issue of “BioCycle” magazine published a comparison of regional recycling rates. See page 7 for details.

South Carolina – in the 2000 amendment to the Act – adopted the U.S. Environmental Protection Agency’s (EPA) definition of MSW. The state defines MSW as the combined residential, commercial, institutional/non-profit and industrial packaging/office waste generated. This includes paper, cans, bottles, food scraps, yard trimmings, packaging and other items. It does not include industrial process waste like scraps and by-products from the manufacturing process, C&D debris, automobile bodies, agricultural waste, combustion ash, mining waste and sewage sludge as well as hazardous, infectious and radioactive waste.

The state has made some exceptions to EPA’s definition. The state includes tire-derived fuel, yard trimmings used as boiler fuel and used motor oil (from do-it-yourselfers) when calculating its MSW recycling rate while EPA does not. Those commodities, when recycled as an alternative fuel source, are considered MSW in South Carolina.

## What is the definition of TSW?

In addition to the state’s measured MSW recycling rate, it is important to look at the state’s TSW recycling rate – which includes not only MSW but C&D debris, process waste and any other material that is recycled instead of disposed of in a landfill or incinerator.

**TABLE 2.2: Sources of MSW**

TYPE OF MSW	TYPICAL EXAMPLES OF MSW
<b>Residential</b> (single- and multi-family homes)	Newspapers, clothing, packaging, cans and bottles, food scraps, yard trimmings, large appliances and electronics
<b>Commercial</b> (office buildings, retail establishments and restaurants)	Cardboard, office paper, yard trimmings and cafeteria waste (food scraps, cans and bottles)
<b>Institutional</b> (schools, libraries, hospitals and prisons)	Office paper, books, yard trimmings and cafeteria waste (food scraps, cans and bottles)
<b>Industrial</b> (packaging and office, but not process waste)	Cardboard, plastic film, wood pallets, office paper and cafeteria waste (food scraps, cans and bottles)

South Carolina’s TSW recycling rate decreased from 29.5 percent in FY09 to 26.7 percent in FY10. The amount of TSW recycled was nearly 2.8 million tons – about 460,000 tons less than in FY09. In addition, the amount that decreased in the TSW generation (recycled + disposed of) went from 11 million in FY09 to 10.4 million in FY10 – a difference of about 600,000 tons.

The amount of TSW recycled is equivalent to 3.4 p/p/d. Of the nearly 2.8 million tons recycled, the majority of the material is processing or manufacturing waste – scraps or by-products – that was put back into the process or taken off-site for recycling. In addition, some of that also includes sewage sludge that is land-applied.

## Recycling Rate Equation

The equation below is used for calculating the MSW and TSW recycling rate.

$$\text{RECYCLING RATE (\%)} = \frac{\text{AMOUNT RECYCLED}}{\text{AMOUNT GENERATED}^*} \times 100$$

\*Generated = Recycled + Disposed Of

# REGIONAL COMPARISON

Every two years, "BioCycle" – a monthly magazine that focuses on advanced composting, organics recycling and renewable energy – publishes "The State of Garbage in America," a joint study with the Earth Engineering Center of Columbia University.

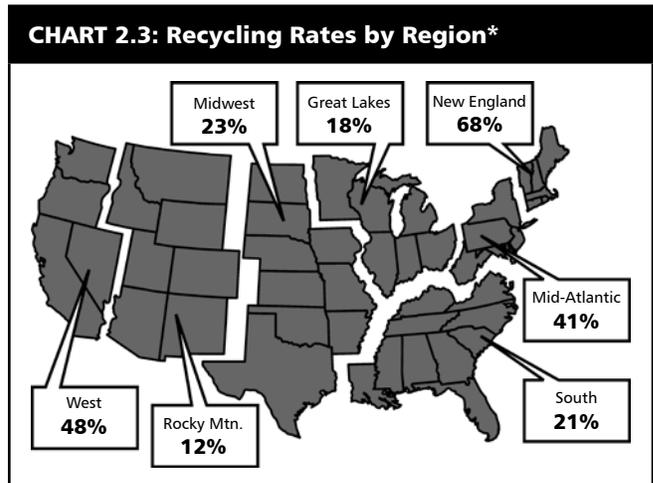
This study collects information from each state on the amount of material disposed of in landfills and recycled. The most recent study – which uses information collected in 2008 – was published in October 2010.

One of the goals of the study is to allow states to compare themselves to each other in regards to solid waste management by using the same measurement criteria. According to the study, "an important part of MSW accounting in 'The State of Garbage in America' is filtering out non-MSW materials that may be included in the state's responses." This process allows for a more accurate comparison between states.

The study published regional rates on recycling, composting and waste-to-energy. For the purpose of a balanced comparison, those categories were combined into one recycling rate for each region as shown in Chart 2.3. It is important to note that this chart is a modified version of one published in the October 2010 issue of "BioCycle."

Out of the seven regions represented, the South is in the middle, with an average recycling rate of 21 percent. South Carolina, in comparing similar numbers, had a 24 percent recycling rate that year.

The states that make up the Southern region are: Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Virginia. When you look more closely at the data reported, South Carolina is ranked fourth in the region for estimated per capita generation at .94 tons



**SOURCE:** "BioCycle," October 2010, pp. 16-17 (\*2008 Data) – "BioCycle" uses its own formula that includes recycling, composting and waste-to-energy data to calculate recycling rates that allows comparisons that are consistent.

per person per year (t/p/y) and below the national average of 1.28 t/p/y.

In addition, South Carolina tied with Mississippi for the least number of MSW landfills in the South among the states, at 18. The regions' average tipping fee was \$33 per ton with South Carolina slightly higher at \$35, although it was below the national average of \$44.

Finally, of the six Southern states that reported importing solid waste for disposal in their landfills, South Carolina ranked third in the amount of material brought in at 1.2 million tons, behind Virginia (4.8 million tons) and Georgia (1.8 million tons).

While assessments can be difficult to make, "The State of Garbage in America" allows for some comparison between states, recognizing that South Carolina's efforts are similar to other states in the region.

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# GREENHOUSE GAS EMISSIONS

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Greenhouse gases (GHG) such as carbon dioxide (CO<sub>2</sub>), methane and nitrous oxide (N<sub>2</sub>O) can be produced by a number of human activities including solid waste disposal. While landfill GHG emissions are affected by factors such as waste composition, moisture and landfill size, landfills are the largest single human source of methane emissions in the United States. Significant landfill gas production typically begins within one year of waste disposal and continues for up to 60 years. Conversely, waste reduction as well as recycling may reduce GHG emissions.

## The Impact of Source/Waste Reduction and Recycling on GHGs

Source reduction and waste reduction are different terms for the same activity – reducing the amount of solid waste that is generated. When less waste is generated, the emissions associated with producing and managing the material is avoided.

When recycled material is used in place of virgin material in the manufacturing process, positive benefits are realized in terms of GHG reductions. Recycling reduces the CO<sub>2</sub> and N<sub>2</sub>O emissions from the combustion of fuels used to operate the equipment associated with locating, extracting and processing raw materials. Additionally, manufacturing a product from recycled material and transporting it often requires less fossil fuel than making a product from raw materials.

Composting is another method that reduces GHGs. When organic materials are processed into compost, fewer GHGs – particularly methane – are emitted. In comparison, more GHGs are emitted when organics break down in a landfill.

## GHG Emission Impacts

The estimated GHG reductions due to recycling and composting in South Carolina in FY10 are calculated

from the Waste Reduction Model (WARM) developed by the U.S. Environmental Protection Agency.

WARM is designed to estimate GHG reductions from several different waste management practices. The recycling and composting activities of South Carolinians resulted in a reduction of nearly 3 million metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>E).

### Environmental Equivalencies

The reduction of 2,974,069 MTCO<sub>2</sub>E is equivalent to:

- removing annual emissions from 544,720 passenger cars; or
- conserving 337,578,732 gallons of gasoline; or
- conserving 15,530 railcars of coal; or
- eliminating emissions from the electricity use of 360,931 homes for one year; or
- eliminating emissions from the energy use of 253,112 homes for one year; or
- eliminating emissions from 1,239,195,261 propane cylinders used for outdoor grilling.

Note that WARM estimates that GHGs are reduced by avoided landfill disposal of the materials. Emissions also are reduced as a result of recovered materials being used to manufacture new products instead of having to extract and manufacture products from virgin resources.

This information was summarized from a report done for DHEC by R.W. Beck. To see the report in its entirety, visit [www.scdhec.gov/environment/lwm/recycle/annual\\_report.htm#ghg](http://www.scdhec.gov/environment/lwm/recycle/annual_report.htm#ghg).

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# RECOMMENDATIONS

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DHEC recommends that South Carolina support policies that encourage and reinforce waste minimization, reuse and recycling. State policy should recognize and reinforce the economic advantages of efficient recycling efforts. Policy also should continue to strengthen efforts to make environmentally responsible waste management a priority. In addition, statutory, regulatory and voluntary efforts to implement reporting of recycling activities should be encouraged. Accurate reporting is essential for successful planning and measuring progress.

Although the S.C. Solid Waste Policy and Management Act of 1991 (Act) was visionary at the time, solid waste management has evolved considerably since its passage. Definitions and standard practices in solid waste management also have changed.

Priority items to be considered for updates in the Act should be: reporting requirements for businesses; recycling goals; an improved tracking system for used tires; and removal of zoning language that results in inefficient state regulatory involvement in local issues as well as the removal of need requirements for transfer stations and other peripheral solid waste infrastructure. As opportunities arise, DHEC will initiate the appropriate process to implement changes to the Act.

In support of current policy, DHEC is currently working on the following initiatives.

## Policy and Regulations

- Two of the top priority regulations are electronics and composting. There also are other regulations that should be evaluated and prioritized, based upon immediate and long-term impacts to solid waste management and on the potential for environmental impact. Once established, these regulatory priorities should be acted on as resources allow.
- Look for ways to expand the collection of recycling data which – in turn – will provide a more accurate picture of solid waste management in the state. Options may include, but are not limited to, encouraging haulers,

recyclers and processors to submit annual reports on the amounts and types of material recycled.

- Encourage public understanding of, and involvement in, the development of state and local solid waste management plans. Promote an understanding of local zoning considerations in the solid waste facility permitting process. Encourage the inclusion of stakeholders in local solid waste program development.

## Infrastructure

- The creation of recycled material processing facilities, consolidation points or recycling “hubs” could result in several significant benefits including increased opportunities for regionalization and cooperation that may allow local governments to recycle additional material as well as reduce the cost of transportation to market and simplify other operational issues. Identify large-scale, local government and commercial baling operations for potential market opportunities. Consider ways of providing funds for the development of regional recycling hubs and other facilities.
- By law, an electronics ban goes into effect July 1, 2011. DHEC will work to develop educational awareness strategies, provide technical assistance as well as some infrastructure. In addition, DHEC will continue the promulgation process for regulations to support the legislation.
- DHEC will continue work to increase awareness among local decision makers on the important role recycling plays in South Carolina’s environment and economy. The goal of this effort is to assist in the development of sustainable recycling programs that should result in increased participation, more commodities collected and larger amounts of material diverted from disposal.

## Increase Recycling Opportunities

- Businesses and industry are not required to report their recycling activities to DHEC – leaving a significant omission in the state’s overall recycling

picture. County recycling coordinators, when possible, have attempted to collect this recycling data with limited success. DHEC, through its S.C. Smart Business Recycling Program, will continue to increase its efforts to promote waste reduction and recycling to businesses and, in turn, encourage the reporting of those activities. One of the key efforts will be to increase the number of businesses using the Web-based Biz-TRAC reporting program.

- Assist local governments and private entities in identifying where services are needed as well as identifying model programs that can be replicated.
- Encourage local governments to replicate “Recycling on the Go” at area parks and venues to promote recycling. This effort will include increased outreach to residents and visitors, get local governments to secure partners to provide recycling containers and offer assistance with the coordination of the material collected.
- DHEC will continue to offer the Green Hospitality Program and its work with the S.C. Hospitality Association as part of the S.C. Green Hospitality Alliance to encourage hotels, motels, restaurants, bars and hospitality venues to increase recycling efforts. DHEC will continue to provide technical assistance to the state’s hospitality industry through its best management practices, outreach and education, training, site visits and other technical assistance to promote waste reduction and recycling.
- Look for new ways to help residents who do not have the convenience of curbside recycling. Currently, most counties rely on drop-off sites to collect material. In addition, many communities do not have curbside recycling, but have curbside garbage collection instead. The lack of curbside programs may be an obstacle for residents that want to recycle. DHEC, in partnership with local governments, will attempt to provide new incentives and solutions to overcome these barriers.

# MSW RECYCLING: COMMODITIES

This section highlights the commodities that make up municipal solid waste (MSW) as defined by South Carolina. Many of the traditional commodities (glass, metal, paper and plastic) serve as the foundation upon which local government recycling programs are established. The amounts collected are included when calculating the state’s MSW recycling rate.

A few changes were made in this year’s report to provide more detailed information for each of the commodities. In addition to the recycling tonnages and trends that are provided for the past five fiscal years (FY), there also is a breakdown of the type of material (e.g., color of glass, type of plastic) and the amount collected for each county. Previously, that information was not printed in the report.

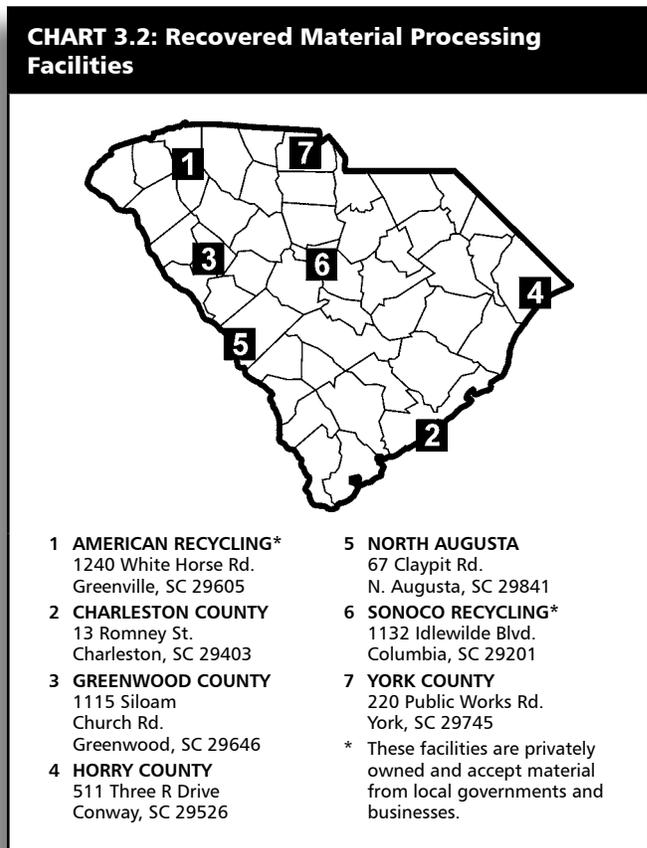
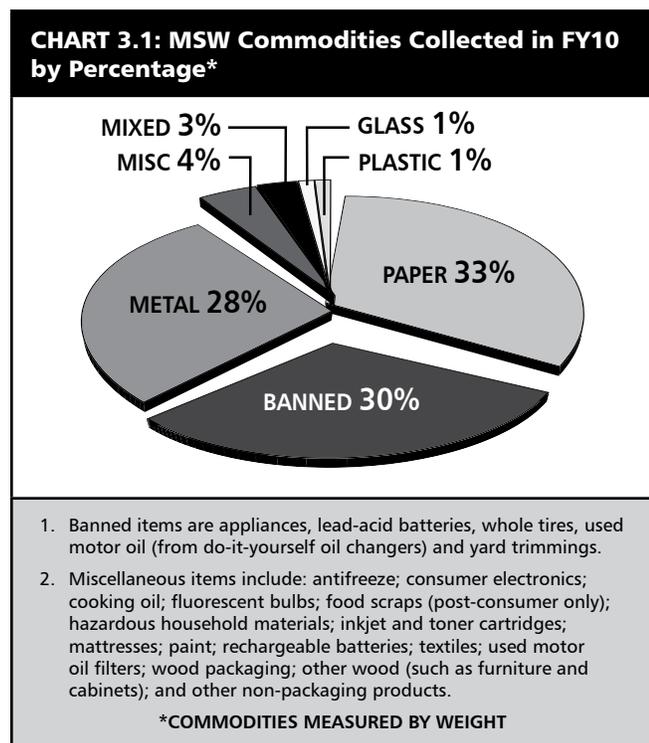
Again this year, charts showing the average price received are provided for glass, metal, paper and plastic in FY10 (July 1, 2009 to June 30, 2010). Due to the low response rate from counties, additional data was obtained from “Waste & Recycling News” – a

bi-weekly publication that provides regional market prices. That data was averaged and provided along with market prices reported by S.C. counties.

Most recovered material in South Carolina is sent to one of seven processing facilities. See Chart 3.2.

Used motor oil – which falls under banned items – is discussed in Section 4 because an annual report is required by law. See page 25 for details.

Of the seven categories that make up MSW (glass, metal, paper, plastic, banned, miscellaneous and mixed recyclables), three – glass, metal and banned – saw an increase in tonnages – while the other four saw a drop from the previous FY. Overall, however, the amount of material collected for recycling increased 16 percent (or 150,560 tons) from FY09.



# COMMODITY: **GLASS**

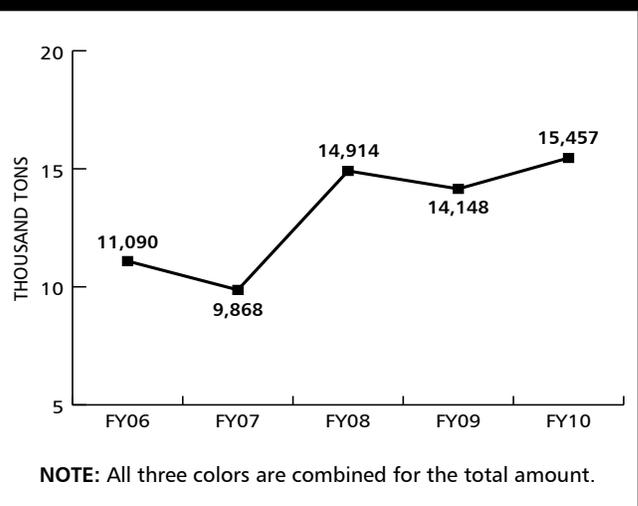
The amount of glass recycled increased from 14,148 tons in FY09 to 15,457 tons in FY10 – a difference of more than 1,300 tons or about 9 percent.

Glass recycling refers primarily to glass containers – that is bottles and jars. The national recycling rate of glass is 31 percent according to the U.S. Environmental Protection Agency (EPA). An estimated 80 percent of recovered glass containers are made into new glass bottles.

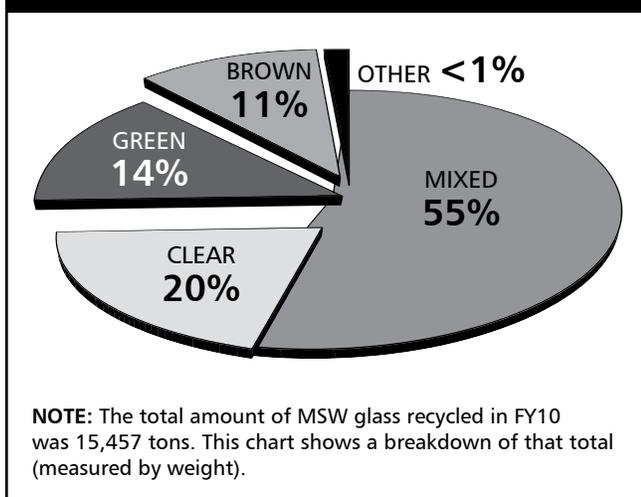
The market value for glass continues to remain relatively low – averaging \$5 to \$14 per ton in South Carolina, depending on color – compared to other commodities. This value is relatively unchanged from the past FY.

Despite that, most S.C. counties collect glass in separate containers at drop-off locations while a limited number of programs collect the material curbside. The number of counties collecting glass in their local recycling programs rose by one to 34.

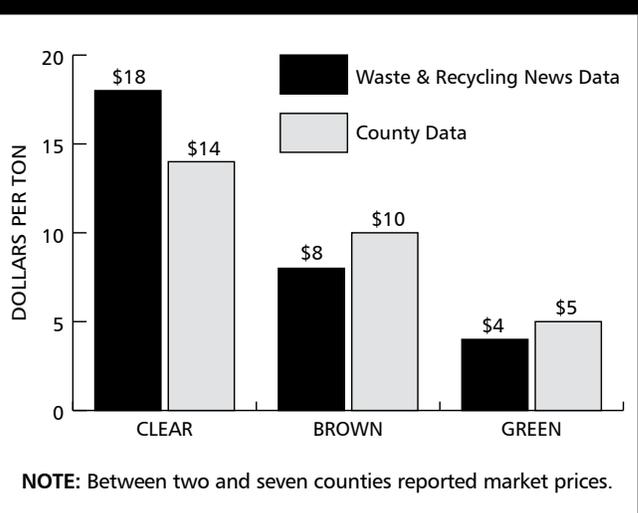
**CHART 3.3: Glass Recycling Figures by FY**



**CHART 3.4: Types of Glass Recycled**



**CHART 3.5: Average Glass Prices by Color in FY10**



**TABLE 3.6: Glass Recycling by County in Tons**

COUNTY	BROWN	CLEAR	GREEN	MIXED	OTHER	TOTAL
Abbeville	0.00	0.10	0.00	0.10	0.00	0.20
Aiken	24.30	23.20	48.80	0.30	0.00	96.60
Allendale	0.00	0.00	1.00	4.90	0.00	5.90
Anderson	0.00	0.10	0.00	364.80	0.00	364.90
Bamberg	0.00	0.00	0.00	0.10	0.00	0.10
Barnwell	0.00	0.00	0.00	0.10	0.00	0.10
Beaufort	210.10	525.40	315.20	20.40	0.00	1,071.10
Berkeley	0.00	0.10	0.00	0.00	0.00	0.10
Calhoun	0.00	0.00	0.00	0.00	0.00	0.00
Charleston	419.60	827.30	379.70	1,526.70	0.00	3,153.30
Cherokee	12.80	22.80	7.80	0.70	0.00	44.10
Chester	13.40	20.00	3.20	0.10	0.00	36.70
Chesterfield	0.00	0.00	0.00	0.30	0.00	0.30
Clarendon	0.00	0.00	0.00	39.30	0.00	39.30
Colleton	0.00	0.00	0.00	0.40	0.00	0.40
Darlington	48.20	100.00	53.00	0.00	0.00	201.20
Dillon	0.00	0.00	0.00	0.10	0.00	0.10
Dorchester	0.00	0.00	0.00	334.10	0.00	334.10
Edgefield	0.00	0.00	0.00	0.00	0.00	0.00
Fairfield	0.00	0.00	0.00	0.10	0.00	0.10
Florence	0.00	0.00	0.00	0.10	0.00	0.10
Georgetown	48.00	45.00	47.00	0.10	0.00	140.10
Greenville	1.00	5.10	0.00	3,913.70	0.30	3,919.80
Greenwood	20.70	96.10	0.00	0.20	0.00	117.00
Hampton	0.00	0.00	0.00	0.10	0.00	0.10
Horry	0.00	0.00	0.00	1,652.80	0.00	1,652.80
Jasper	0.00	0.00	0.00	38.10	0.00	38.10
Kershaw	0.90	0.00	0.00	84.10	0.00	85.00
Lancaster	66.90	78.20	6.90	0.10	0.00	152.10
Laurens	13.20	0.00	0.00	0.10	0.00	13.30
Lee	0.00	0.00	0.00	0.10	0.00	0.10
Lexington	159.60	161.70	88.80	3.20	0.00	413.30
Marion	0.00	0.00	0.00	0.00	0.00	0.00
Marlboro	0.00	0.00	0.00	0.00	0.00	0.00
McCormick	0.00	0.00	0.00	0.40	0.00	0.40
Newberry	5.00	5.00	5.00	0.10	0.00	15.10
Oconee	102.40	92.40	140.90	0.50	0.00	336.20
Orangeburg	5.10	11.60	0.00	2.70	0.00	19.40
Pickens	162.40	281.60	40.60	36.90	0.00	521.50
Richland	152.50	390.80	728.00	151.70	0.00	1,423.00
Saluda	0.00	0.00	0.00	0.00	0.00	0.00
Spartanburg	21.60	27.30	30.30	4.70	0.00	83.90
Sumter	19.00	0.00	18.90	296.90	0.00	334.80
Union	5.20	9.20	3.20	0.10	0.00	17.70
Williamsburg	0.00	0.00	0.00	0.00	0.00	0.00
York	231.80	380.20	209.10	3.00	0.00	824.10
<b>STATE TOTAL</b>	<b>1,743.60</b>	<b>3,102.80</b>	<b>2,127.70</b>	<b>8,482.80</b>	<b>0.30</b>	<b>15,457.20</b>

# COMMODITY: METAL

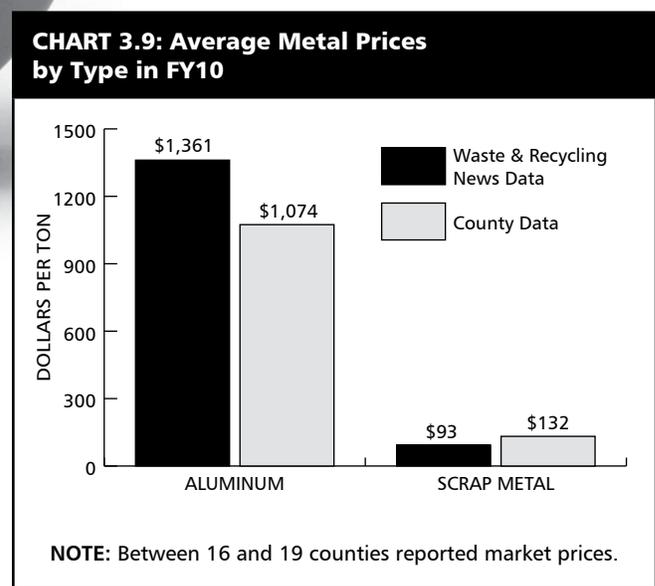
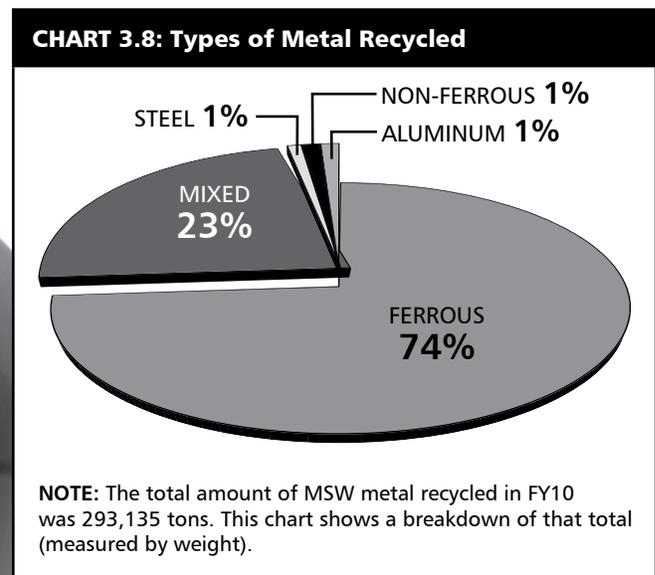
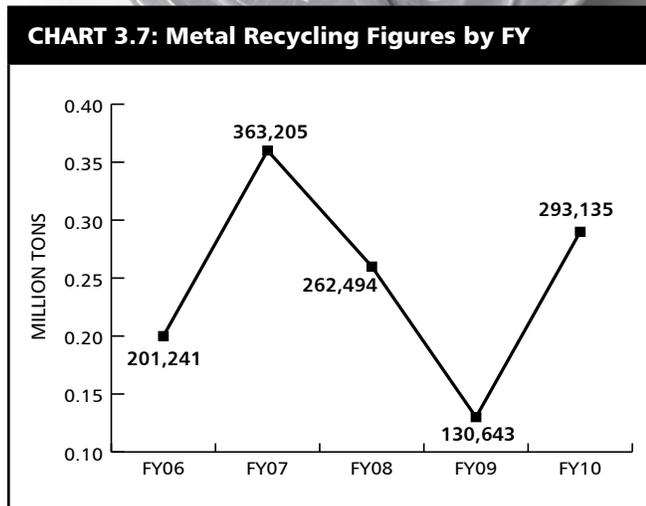
The amount of metal recycled rose from 130,643 tons in FY09 to 293,135 tons in FY10 – an increase of 124 percent. One reason for the significant improvement was an increase in the number of metal recyclers that reported. Currently, all 46 counties collect some type of metal (e.g., steel, aluminum) in their local residential recycling programs.

Aluminum cans have the highest national recycling rate of any beverage container (increasing to 57.4 percent in 2009 – the most recent data available) according to industry trade groups including the Aluminum Association, the Can Manufacturers Institute and the Institute of Scrap Recycling



Industries, Inc. Overall, the 2009 recycling rate for metal was reported to be 34.5 percent according to EPA.

Figures from the Steel Recycling Institute (SRI) have not been updated since 2008 when SRI reported an 83.3 percent (or 82 million tons of domestic steel scrap) recycling rate. Other recycling rates reported were 65 percent for steel containers and 90 percent for appliances.



**TABLE 3.10: Metal Recycling by County in Tons**

COUNTY	ALUMINUM	STEEL	NON-FERROUS	FERROUS	MIXED	TOTAL
Abbeville	4.80	0.00	2.00	17.80	407.20	431.80
Aiken	26.40	11.20	0.00	11.60	1,534.60	1,583.80
Allendale	1.10	6.20	0.00	2.80	38.70	48.80
Anderson	182.30	43.70	75.30	86.80	1,807.70	2,195.80
Bamberg	1.10	0.00	0.00	2.80	4.40	8.30
Barnwell	3.10	0.00	0.00	2.80	403.70	409.60
Beaufort	654.50	91.70	220.30	3,070.20	3,639.10	7,675.80
Berkeley	77.50	518.80	0.30	554.50	50.90	1,202.00
Calhoun	4.00	0.00	0.00	30.90	438.80	473.70
Charleston	338.40	401.50	102.90	25,147.60	1,519.70	27,510.10
Cherokee	10.20	6.60	0.00	8.10	3,829.60	3,854.50
Chester	4.50	2.80	0.00	2.80	8.80	18.90
Chesterfield	1.80	0.00	0.00	26.90	126.90	155.60
Clarendon	1.00	6.20	0.00	2.80	402.00	412.00
Colleton	14.40	4.20	0.00	2.90	1,408.50	1,430.00
Darlington	12.30	4.70	83.00	47.80	395.10	542.90
Dillon	5.60	0.00	62.00	2.80	264.70	335.10
Dorchester	19.90	165.40	31.00	9,079.90	1,257.80	10,554.00
Edgefield	126.90	6.20	0.00	228.40	71.50	433.00
Fairfield	5.40	0.00	0.00	2.80	326.20	334.40
Florence	17.40	8.70	15.00	9,384.80	80.00	9,505.90
Georgetown	20.20	0.00	0.00	458.40	556.40	1,035.00
Greenville	82.80	164.00	292.90	32,034.90	11,158.10	43,732.70
Greenwood	29.70	350.30	269.60	5,478.20	661.80	6,789.60
Hampton	1.10	0.00	0.00	7.80	158.90	167.80
Horry	312.30	289.40	329.20	5,072.30	4,311.70	10,314.90
Jasper	1.10	18.70	10.00	89.60	110.80	230.30
Kershaw	7.80	12.60	0.00	2.80	409.20	432.40
Lancaster	51.00	0.00	0.00	7.80	842.00	900.80
Laurens	11.00	34.60	8.00	4,863.30	69.60	4,986.50
Lee	11.40	4.40	0.00	2.80	261.20	279.80
Lexington	51.70	4.00	1,354.80	23,770.30	751.30	25,932.10
Marion	1.00	0.00	0.00	7.80	3,754.20	3,763.00
Marlboro	63.60	6.20	13.70	659.60	987.50	1,730.60
McCormick	78.70	6.20	0.00	167.50	35.70	288.10
Newberry	59.30	0.00	0.00	36.80	84.70	180.80
Oconee	42.50	9.10	13.70	162.40	673.60	901.30
Orangeburg	8.30	0.80	10.00	6,342.30	697.60	7,059.00
Pickens	152.70	57.90	14.10	31.50	560.30	816.50
Richland	190.00	315.50	43.00	25,928.00	1,152.20	27,628.70
Saluda	101.30	0.00	0.00	34.70	340.30	476.30
Spartanburg	10.60	19.10	122.00	20,024.20	1,715.30	21,891.20
Sumter	86.10	72.80	0.00	51.40	2,662.90	2,873.20
Union	2.50	0.00	0.00	2.80	172.00	177.30
Williamsburg	11.10	4.50	12.70	382.20	173.10	583.60
York	161.90	104.60	0.00	42,801.30	17,780.20	60,848.00
<b>STATE TOTAL</b>	<b>3,061.50</b>	<b>2,752.90</b>	<b>3,085.50</b>	<b>216,138.70</b>	<b>68,096.20</b>	<b>293,134.80</b>

# COMMODITY: PAPER

The amount of paper recycled decreased from 502,908 tons in FY09 to 353,173 tons in FY10 – a decrease of nearly 30 percent. While there was a slight decrease in all sectors, the largest drop came in the industrial packaging sector, which relies on voluntary reporting by business and industry.

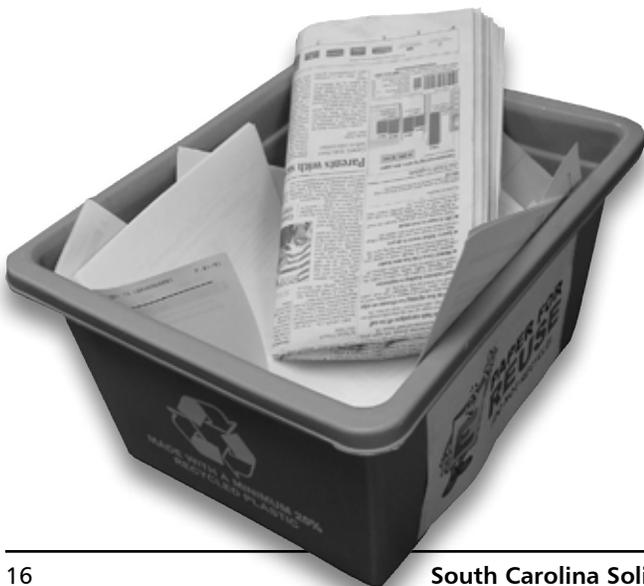
All 46 counties accept some type of paper (i.e., cardboard, newspaper, magazines) in their local residential recycling programs.

The revenue earned on the different types of paper recycled ranged from \$81 to \$156 per ton in FY10, a significant increase over last year.

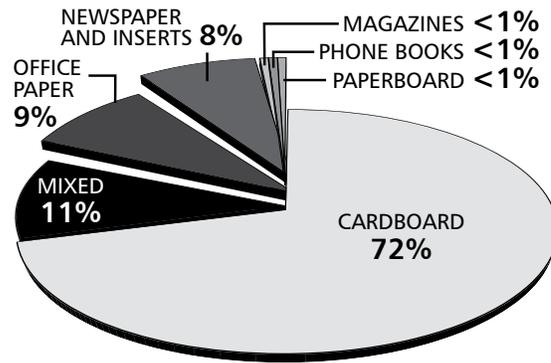
Nationally, through efforts in local recycling programs (collection of paper at home, school and work) as well as in industry, paper recovery has reached historically high levels. According to the American Forest & Paper Association, the United States hit a record 63.4 percent paper recovery rate in 2009 (the most current data reported), with more than 50 million tons of paper recovered.

Paper refers to products and materials – including newspaper, magazines, office paper, corrugated containers, bags and some paperboard packaging – that can be recycled into new paper products.

In South Carolina, among all paper categories, cardboard was the No. 1 recycled item followed by mixed paper and office paper.

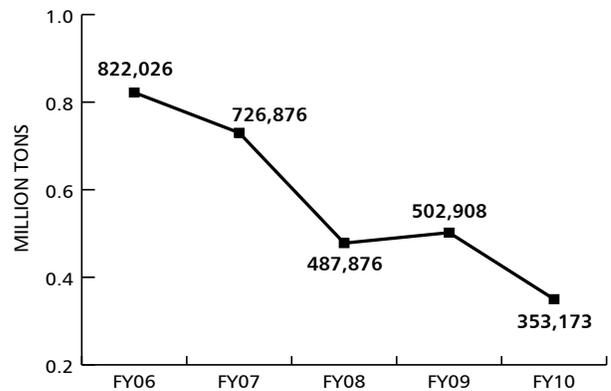


**CHART 3.11: Types of Paper Recycled**

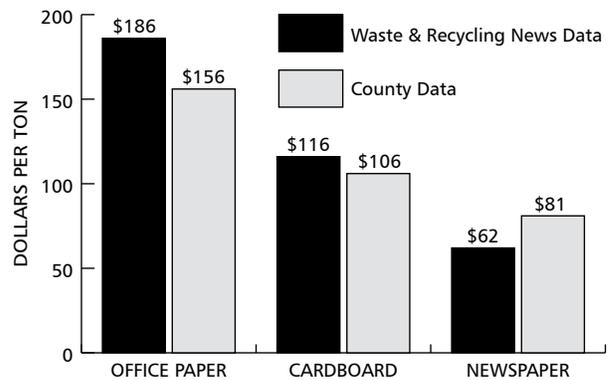


**NOTE:** The total amount of MSW paper recycled in FY10 was 353,173 tons. This chart shows a breakdown of that total (measured by weight).

**CHART 3.12: Paper Recycling Figures by FY**



**CHART 3.13: Average Paper Prices by Type in FY10**



**NOTE:** Between seven and 21 counties reported market prices.

**TABLE 3.14: Paper Recycling by County in Tons**

COUNTY	CARDBOARD	MAGAZINES	NEWSPAPER AND INSERTS	OFFICE PAPER	PAPERBOARD	PHONE BOOKS	MIXED	TOTAL
Abbeville	1,061.40	0.60	0.60	9.30	0.00	0.00	138.20	1,210.10
Aiken	5,078.80	0.20	1,793.20	172.70	0.00	0.20	879.20	7,924.30
Allendale	199.20	0.10	7.80	12.90	0.00	0.20	20.40	240.60
Anderson	8,760.80	23.40	34.60	321.80	27.10	5.30	1,941.80	11,114.80
Bamberg	402.70	0.10	0.10	0.60	0.00	0.00	21.80	425.30
Barnwell	823.20	0.10	0.10	0.40	0.00	0.00	94.10	918.30
Beaufort	7,401.00	0.10	1,284.10	324.20	0.00	0.10	1,281.50	10,291.00
Berkeley	4,667.10	18.00	980.20	52.90	6.00	0.20	253.60	5,978.00
Calhoun	610.30	0.10	0.10	3.80	0.00	1.10	25.10	640.50
Charleston	19,414.40	12.30	8,908.60	1,188.80	340.70	87.00	1,382.00	31,333.80
Cherokee	2,362.00	0.20	19.90	50.00	0.00	1.20	1,318.70	3,752.00
Chester	1,054.50	0.60	147.70	13.80	0.00	6.10	60.70	1,283.40
Chesterfield	1,155.40	0.10	0.90	1.00	0.00	0.00	66.90	1,224.30
Clarendon	965.90	0.10	194.20	0.70	0.00	0.10	794.60	1,955.60
Colleton	1,003.30	0.10	91.60	2.70	0.00	0.00	56.80	1,154.50
Darlington	1,608.20	8.00	232.90	15.20	0.00	0.40	97.10	1,961.80
Dillon	4,667.90	6.00	64.80	152.90	0.00	6.30	45.00	4,942.90
Dorchester	3,823.30	1.30	776.30	218.60	0.00	1.50	670.20	5,491.20
Edgefield	2,112.40	4.10	178.50	58.50	0.00	1.70	275.10	2,630.30
Fairfield	458.60	0.10	0.10	2.10	0.00	0.00	243.50	704.40
Florence	3,144.10	0.30	401.30	38.20	0.10	0.60	820.60	4,405.20
Georgetown	1,841.90	17.80	430.20	66.70	0.00	0.10	89.10	2,445.80
Greenville	28,626.10	1.60	60.60	19,851.50	0.00	2.80	9,409.10	57,951.70
Greenwood	3,890.80	5.90	611.60	251.40	495.60	3.30	958.90	6,217.50
Hampton	482.30	17.80	27.50	2.10	0.00	0.00	30.80	560.50
Horry	21,301.70	25.80	4,643.30	1,457.80	0.00	127.30	617.70	28,173.60
Jasper	567.40	1.20	37.20	17.60	0.50	0.30	43.50	667.70
Kershaw	6,710.10	0.10	0.10	13.30	0.00	0.10	91.40	6,815.10
Lancaster	2,341.30	0.10	520.50	7.50	0.30	0.10	102.50	2,982.30
Laurens	2,726.40	1.60	154.60	47.20	1.00	0.10	303.20	3,234.10
Lee	380.20	0.10	20.40	1.10	0.00	0.10	33.20	435.10
Lexington	13,694.80	0.10	138.30	2,801.40	0.00	23.60	1,598.70	18,256.90
Marion	654.50	0.10	0.10	0.50	0.00	0.00	48.80	704.00
Marlboro	644.00	0.10	0.10	0.50	0.00	0.10	46.20	691.00
McCormick	653.70	0.30	64.80	8.80	0.00	0.10	43.30	771.00
Newberry	1,509.30	0.30	0.10	21.90	0.00	0.10	944.70	2,476.40
Oconee	6,336.00	0.10	842.60	39.90	0.00	0.10	710.20	7,928.90
Orangeburg	5,379.20	0.10	167.00	35.60	0.00	0.00	130.70	5,712.60
Pickens	15,778.80	9.30	156.30	329.10	0.00	8.20	1,500.80	17,782.50
Richland	16,822.30	7.20	1,644.70	3,379.70	0.00	81.00	1,375.90	23,310.80
Saluda	785.50	0.30	96.30	5.90	0.00	0.00	123.70	1,011.70
Spartanburg	21,827.70	3.40	0.10	162.80	0.00	0.50	6,387.30	28,381.80
Sumter	3,322.90	1.10	127.80	68.20	0.00	0.70	1,284.00	4,804.70
Union	961.30	0.10	0.10	2.80	0.00	0.00	766.80	1,730.90
Williamsburg	1,416.10	3.10	16.10	56.60	0.90	27.40	51.80	1,572.00
York	24,492.40	14.40	2,186.00	286.80	2.00	91.10	1,902.30	28,975.00
<b>STATE TOTAL</b>	<b>253,920.80</b>	<b>187.50</b>	<b>27,063.10</b>	<b>31,557.40</b>	<b>874.40</b>	<b>478.90</b>	<b>39,090.90</b>	<b>353,173.00</b>

# COMMODITY: PLASTIC

The amount of plastic recycled decreased about 29 percent to 15,841 tons in FY10 – down from 22,244 tons in FY09.

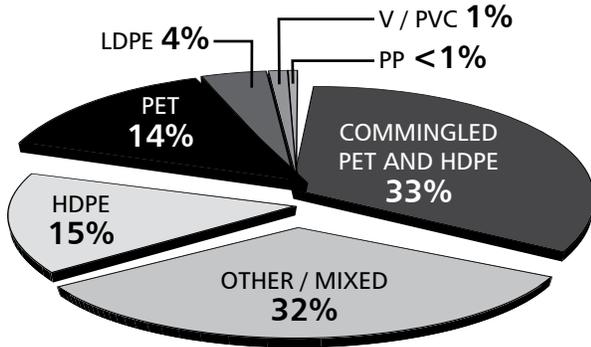
This decrease came mostly from the commercial category although there also was a drop in the residential category. The number of counties collecting some type of plastic in their residential programs, however, increased to 45 in FY10.

Plastics are identified by type (No. 1 through No. 7), but nearly all plastic collected for recycling from residential programs is bottles. Typically, most residential recycling programs only accept plastic bottles made of PET and HDPE. These types of plastic (marked as No. 1 and No. 2, respectively), for the most part, can be identified by their shape – any type of bottle, jug or jar that has a screw cap.

The Association of Postconsumer Plastic Recyclers released a report detailing recovery rates in 2009 – the most current data available. For both PET and HDPE – which make up about 99 percent of all bottles recycled – the combined recycling rate was 27.8 percent, up from 27 percent the previous year. A total of 2,456 million pounds of plastic bottles were reported as collected for recycling. The change from 2008 was an increase of 46 million pounds of recycled bottles or an increase of 1.9 percent.

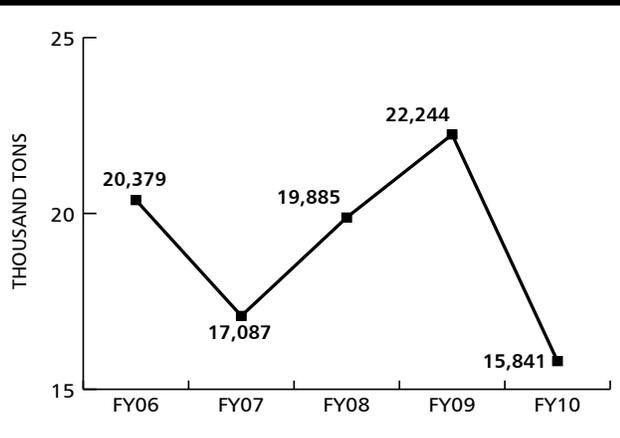
In FY10, the average revenue earned by S.C. counties slightly increased for PET as well as commingled PET and HDPE, while the other categories remained unchanged.

**CHART 3.15: Types of Plastic Recycled**

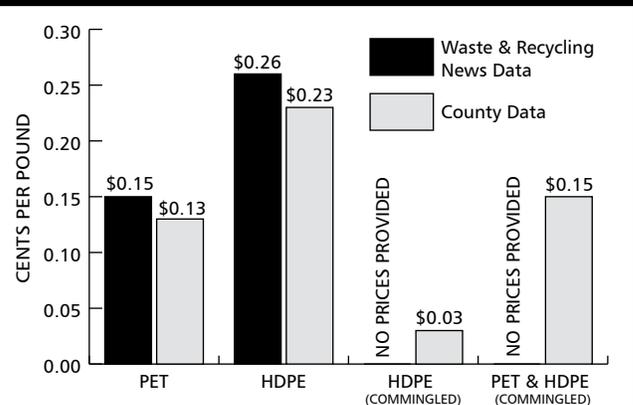


**NOTE:** The total amount of MSW plastic recycled in FY10 was 15,841 tons. This chart shows a breakdown of that total (measured by weight).

**CHART 3.16: Plastic Recycling Figures by FY**



**CHART 3.17: Average Plastic Prices by Type**



**NOTE:** Between four and eight counties reported market prices.

**TABLE 3.18: Plastic Recycling by County in Tons**

COUNTY	PET ♻️	HDPE ♻️	COMMINGLED ♻️ AND ♻️	V / PVC ♻️	LDPE ♻️	PP ♻️	MIXED	TOTAL
Abbeville	0.20	0.00	0.00	0.00	20.40	0.00	0.20	20.80
Aiken	97.80	43.50	0.00	0.10	7.90	0.00	15.70	165.00
Allendale	0.60	1.80	1.50	0.00	0.00	0.00	0.00	3.90
Anderson	5.10	12.70	0.00	2.00	9.80	2.40	173.80	205.80
Bamberg	0.10	0.50	0.00	0.00	0.00	0.00	0.20	0.80
Barnwell	0.10	0.00	0.00	0.00	0.00	0.00	1.70	1.80
Beaufort	0.20	0.20	323.40	0.00	3.00	0.00	101.20	428.00
Berkeley	14.60	2.60	0.00	0.00	45.30	0.00	32.20	94.70
Calhoun	0.00	1.00	0.00	0.00	0.00	0.00	4.70	5.70
Charleston	768.30	502.80	0.00	0.10	54.60	0.00	183.80	1,509.60
Cherokee	0.40	0.50	0.00	0.00	9.30	0.00	62.00	72.20
Chester	0.20	0.00	29.30	0.00	2.40	0.00	0.50	32.40
Chesterfield	0.40	2.50	0.00	0.10	2.90	0.00	0.50	6.40
Clarendon	0.60	1.90	0.00	0.00	2.20	0.00	65.40	70.10
Colleton	0.60	1.50	0.00	0.10	10.10	0.00	1.50	13.80
Darlington	13.60	5.10	20.50	0.00	10.00	0.00	6.20	55.40
Dillon	0.20	0.20	4.00	0.00	1.00	0.00	70.50	75.90
Dorchester	1.40	4.20	0.50	0.00	10.30	0.00	123.10	139.50
Edgefield	0.70	13.70	28.30	0.00	0.00	0.00	10.90	53.60
Fairfield	0.30	0.10	31.60	0.00	3.80	0.00	0.80	36.60
Florence	37.30	20.60	0.00	0.00	12.20	0.00	31.40	101.50
Georgetown	55.20	48.50	0.00	0.00	9.90	0.00	3.50	117.10
Greenville	7.00	286.70	4,206.30	0.10	107.00	0.00	402.90	5,010.00
Greenwood	108.00	89.50	0.30	0.00	11.90	0.00	7.60	217.30
Hampton	0.10	0.00	0.00	0.00	0.00	0.00	0.20	0.30
Horry	446.90	292.20	0.00	0.00	66.20	0.00	107.50	912.80
Jasper	0.60	2.90	0.00	0.00	2.30	0.00	18.60	24.40
Kershaw	1.40	2.50	31.30	0.00	3.90	0.00	0.70	39.80
Lancaster	0.30	0.40	208.60	0.00	6.50	0.00	21.10	236.90
Laurens	0.50	0.20	2.90	0.00	8.80	0.00	125.90	138.30
Lee	0.70	1.80	2.40	0.00	0.00	0.00	3.50	8.40
Lexington	3.00	78.70	195.50	0.00	4.90	0.00	850.50	1,132.60
Marion	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10
Marlboro	0.60	1.80	3.50	0.00	0.00	0.00	52.80	58.70
McCormick	1.00	1.80	14.90	0.10	0.00	0.00	0.50	18.30
Newberry	0.40	0.50	0.00	0.00	4.10	0.00	35.40	40.40
Oconee	1.70	0.20	0.00	0.10	13.90	0.00	252.70	268.60
Orangeburg	0.70	17.90	20.00	0.00	8.00	0.00	19.40	66.00
Pickens	224.30	127.50	18.50	0.10	15.10	0.00	29.60	415.80
Richland	34.10	546.00	28.60	0.00	51.30	0.00	66.50	726.50
Saluda	0.00	0.00	23.30	0.00	0.00	0.00	0.00	23.30
Spartanburg	4.80	4.60	63.20	0.00	40.50	0.00	1,747.70	1,860.80
Sumter	107.20	169.50	0.40	0.00	12.00	0.00	98.90	388.00
Union	0.10	0.00	16.70	0.00	4.20	0.00	0.60	21.60
Williamsburg	0.00	7.00	0.00	0.00	0.00	0.00	0.00	7.00
York	268.00	136.90	0.80	200.00	33.00	0.00	376.50	1,015.20
<b>STATE TOTAL</b>	<b>2,209.70</b>	<b>2,432.20</b>	<b>5,276.10</b>	<b>203.40</b>	<b>609.40</b>	<b>2.40</b>	<b>5,108.10</b>	<b>15,841.30</b>

NOTE: No data was reported for ♻️ and ♻️ plastic.

## COMMODITIES: **BANNED ITEMS**

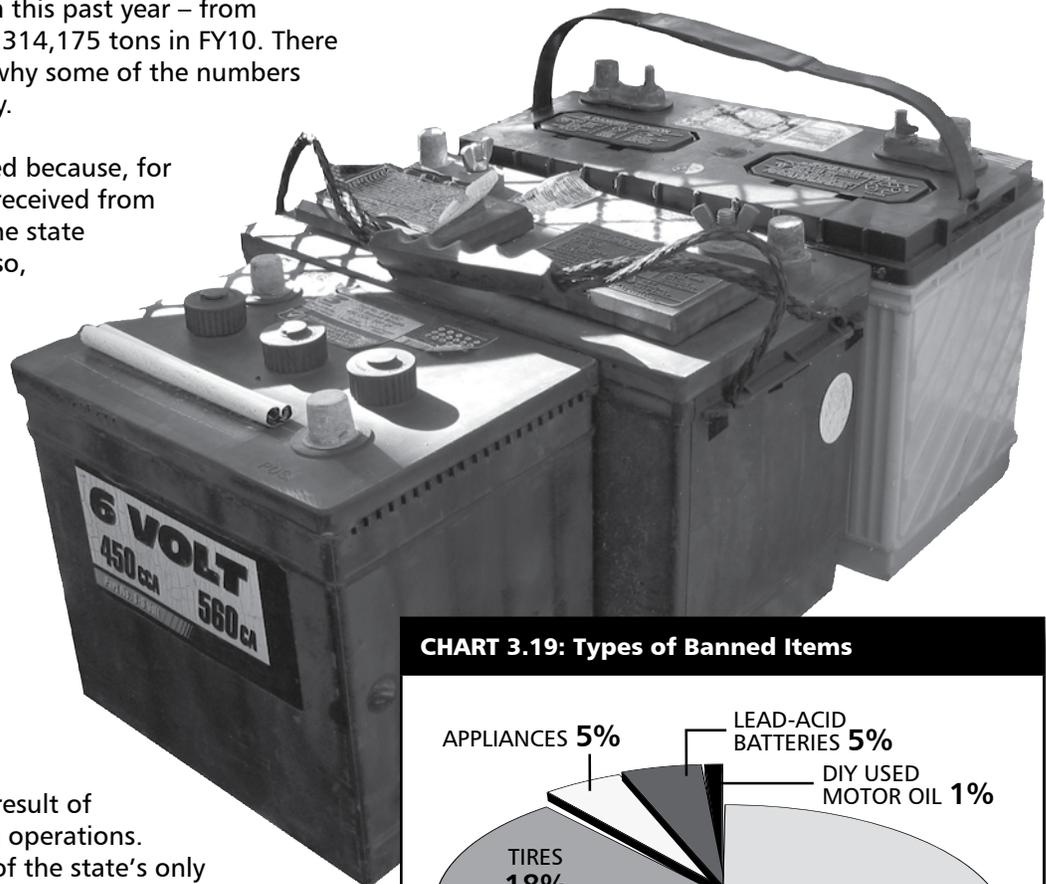
Banned items cannot be disposed of in South Carolina's Class 3 landfills by law. These items are lead-acid batteries, whole tires, appliances, yard trimmings and used motor oil. (See Section 4, beginning on page 25, for a detailed summary of the state's do-it-yourselfer (DIY) used motor oil recycling program.)

The amount of material collected in this category more than doubled from this past year – from 133,995 tons in FY09 to 314,175 tons in FY10. There are specific reasons for why some of the numbers increased so dramatically.

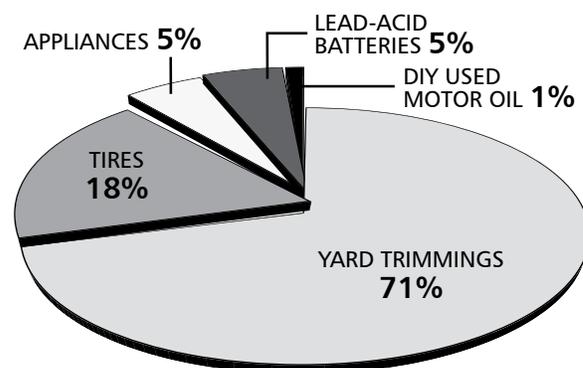
Lead-acid batteries tripled because, for the first time, data was received from several retailers across the state that accept batteries. Also, a successful effort was made to secure data from tire processors for inclusion in the report, resulting in a nearly 100 percent increase from FY09. Finally, the amount of yard trimmings tripled due to counting the weight of all yard trimmings (fitting the definition of MSW) diverted from disposal in a landfill, rather than reporting the amount of product generated as a result of composting or mulching operations. In addition, the closure of the state's only MSW incinerator encouraged a significant amount of yard trimmings to be diverted from landfill disposal that would have been incinerated.

While many of these banned items are not collected in curbside programs, most can be taken to drop-off recycling centers or left with retailers when new products are purchased. With the exception of yard trimmings, there are advanced recycling fees associated with banned items. When consumers buy

motor oil, new tires, large appliances (such as refrigerators and washing machines) and lead-acid batteries, they pay a small fee that is set aside in the S.C. Solid Waste Trust Fund to help pay for recycling programs across the state. These fees have helped develop and maintain curbside and drop-off collection programs as well as outreach and education efforts statewide.



**CHART 3.19: Types of Banned Items**



**NOTE:** The total amount of MSW banned items recycled in FY10 was 314,175 tons. This chart shows a breakdown of that total (measured by weight).

**TABLE 3.20: Banned Items by County in Tons**

COUNTY	APPLIANCES	DIY USED MOTOR OIL	LEAD-ACID BATTERIES	TIRES	YARD TRIMMINGS	TOTAL
Abbeville	0.00	31.00	6.20	302.10	0.20	339.50
Aiken	0.00	146.00	1,118.60	1,462.00	0.20	2,726.80
Allendale	0.00	5.00	2.90	76.70	0.10	84.70
Anderson	6.00	128.00	670.20	1,748.60	0.20	2,553.00
Bamberg	0.00	12.00	1.70	440.90	633.30	1,087.90
Barnwell	4.20	27.00	38.80	227.30	0.20	297.50
Beaufort	1,403.00	94.00	299.40	1,064.30	6,626.90	9,487.60
Berkeley	1.00	167.00	207.60	1,855.90	0.10	2,231.60
Calhoun	40.00	20.00	3.90	175.90	0.10	239.90
Charleston	1,244.00	161.00	1,522.10	3,495.00	54,340.90	60,763.00
Cherokee	124.50	25.00	86.90	957.90	1,046.40	2,240.70
Chester	194.00	35.00	21.90	296.90	0.20	548.00
Chesterfield	0.00	27.00	28.30	552.20	0.20	607.70
Clarendon	0.00	38.00	51.40	513.00	0.10	602.50
Colleton	4.30	34.00	85.60	543.10	2.30	669.30
Darlington	0.00	46.00	50.80	991.30	0.10	1,088.20
Dillon	0.00	22.00	32.90	612.00	0.20	667.10
Dorchester	260.00	122.00	77.70	1,789.80	52.20	2,301.70
Edgefield	133.40	43.00	48.00	246.90	0.10	471.40
Fairfield	0.00	22.00	10.20	504.90	420.20	957.30
Florence	1,112.00	91.00	133.20	1,650.60	5,876.20	8,863.00
Georgetown	0.00	70.00	44.10	599.20	5,657.40	6,370.70
Greenville	1,298.90	185.00	3,407.60	5,610.90	64,495.70	74,998.10
Greenwood	25.00	40.00	63.10	957.90	5.20	1,091.20
Hampton	66.00	19.00	7.60	284.80	1,631.50	2,008.90
Horry	0.00	208.00	1,511.50	3,599.30	36,059.80	41,378.60
Jasper	0.00	25.00	76.10	264.60	0.10	365.80
Kershaw	137.80	80.00	66.00	543.40	1,550.90	2,378.10
Lancaster	0.00	74.00	89.20	1,110.70	435.20	1,709.10
Laurens	0.00	48.00	39.90	518.60	198.20	804.70
Lee	132.30	10.00	5.80	226.90	2,135.20	2,510.20
Lexington	1,775.90	328.00	262.00	1,899.50	7,461.60	11,727.00
Marion	95.00	19.00	32.00	538.70	0.10	684.80
Marlboro	0.00	14.00	1.90	305.40	2.80	324.10
McCormick	63.20	7.00	16.20	116.10	0.30	202.80
Newberry	399.90	37.00	58.40	343.80	3,013.20	3,852.30
Oconee	818.30	68.00	147.40	899.00	5,188.60	7,121.30
Orangeburg	0.00	66.00	95.10	1,403.10	0.20	1,564.40
Pickens	3,224.20	127.00	173.00	1,283.80	2,168.00	6,976.00
Richland	8.30	110.00	1,986.20	5,702.70	0.20	7,807.40
Saluda	95.60	23.00	47.60	197.10	0.10	363.40
Spartanburg	1,071.90	223.00	324.00	5,218.60	9,704.50	16,542.00
Sumter	2,693.10	78.00	287.60	1,182.80	2,832.60	7,074.10
Union	0.00	19.00	18.30	435.30	0.20	472.80
Williamsburg	313.00	21.00	14.30	389.40	12.90	750.60
York	52.40	178.00	1,397.50	1,917.40	12,725.40	16,270.70
<b>STATE TOTAL</b>	<b>16,797.00</b>	<b>3,373.00</b>	<b>14,671.10</b>	<b>55,055.40</b>	<b>224,278.90</b>	<b>314,175.40</b>

# COMMODITIES: **MISCELLANEOUS ITEMS**

Miscellaneous items are other materials that do not fall under any other commodity category. Miscellaneous items vary widely and include cooking oil, fluorescent bulbs, rechargeable batteries, mattresses and consumer electronics. While many of these items are outside the scope of what is

considered traditional recyclables, their increasing presence in the solid waste stream warrants taking a closer look at their recovery rates.

In comparison to the previous FY, the amount of miscellaneous material recycled dropped 33 percent,

**TABLE 3.21: Miscellaneous Items by County in Tons**

COUNTY	ANTIFREEZE	CONSUMER ELECTRONICS	COOKING OIL	FLUORESCENT BULBS	FOOD SCRAPS	HAZARDOUS HOUSEHOLD MATERIALS	INKJET/TONER CARTRIDGES	MATTRESSES
Abbeville	0.20	84.60	0.10	0.40	0.00	0.00	0.20	0.00
Aiken	8.70	59.70	0.10	5.20	0.00	0.00	1.10	0.00
Allendale	0.20	7.00	0.10	0.10	0.00	0.00	0.10	0.00
Anderson	5.90	270.60	27.40	5.00	0.00	0.00	5.50	0.00
Bamberg	0.20	0.00	0.10	0.10	0.00	0.00	0.10	0.00
Barnwell	0.40	0.00	0.10	0.10	0.00	0.00	0.10	0.00
Beaufort	8.50	102.20	472.80	8.00	153.00	0.00	6.90	66.30
Berkeley	20.20	88.50	0.10	12.20	0.00	0.00	0.30	0.00
Calhoun	0.20	15.00	0.10	2.20	0.00	0.00	0.60	0.00
Charleston	87.50	419.30	27.60	15.50	0.00	25.00	4.20	0.00
Cherokee	0.70	19.00	0.20	3.80	0.00	0.00	1.10	8.80
Chester	0.20	0.40	0.10	0.40	0.00	0.00	0.10	0.00
Chesterfield	0.20	1.00	0.50	1.30	0.00	0.00	0.10	0.00
Clarendon	0.20	13.80	0.10	0.10	0.00	0.00	0.10	0.00
Colleton	0.20	12.70	8.20	0.10	0.00	0.00	0.90	0.00
Darlington	0.20	6.00	0.10	2.10	0.00	0.00	1.60	0.00
Dillon	0.20	1.30	0.10	0.10	0.00	0.00	0.20	0.00
Dorchester	0.60	36.20	1.80	2.10	0.00	0.00	2.20	0.00
Edgefield	5.20	9.30	0.10	1.40	0.00	0.00	0.20	10.10
Fairfield	0.20	0.00	0.20	0.10	0.00	0.00	0.10	0.00
Florence	0.30	21.80	7.50	2.10	0.00	0.00	0.30	0.00
Georgetown	0.20	27.30	2.10	2.90	0.00	8.60	0.10	0.00
Greenville	71.60	191.10	31.30	31.80	10.20	0.00	9.40	0.00
Greenwood	14.20	44.50	4.70	6.00	0.00	0.00	0.40	0.00
Hampton	0.20	56.00	0.10	0.10	0.00	0.00	0.10	0.00
Horry	60.60	248.00	1,103.90	8.80	0.00	6.60	11.20	81.80
Jasper	3.90	27.40	10.80	0.20	0.10	0.00	0.30	0.00
Kershaw	1.20	167.30	0.10	0.20	0.00	0.00	0.40	0.00
Lancaster	0.20	0.00	1.10	0.10	0.00	0.00	0.10	0.00
Laurens	0.60	55.80	0.10	0.70	0.00	0.00	0.80	0.00
Lee	0.20	1.00	0.10	0.10	0.00	0.00	0.10	0.00
Lexington	0.40	307.40	0.10	0.30	0.00	0.00	0.30	0.00
Marion	1.20	3.00	0.10	0.10	0.00	0.00	0.10	0.00
Marlboro	0.20	3.60	1.90	0.40	0.00	0.00	0.20	0.00
McCormick	2.20	0.00	0.10	0.20	0.00	0.00	0.10	0.00
Newberry	0.20	58.00	0.10	0.30	0.00	0.00	0.10	0.00
Oconee	18.40	14.70	175.70	2.30	0.00	0.00	4.10	0.00
Orangeburg	0.20	14.00	3.90	0.20	21.30	0.00	0.10	0.00
Pickens	15.10	138.00	674.40	55.30	0.00	0.00	1.20	0.00
Richland	0.70	559.50	11.60	13.60	0.50	60.00	6.10	53.30
Saluda	3.10	0.00	0.10	0.10	0.00	0.00	0.10	0.00
Spartanburg	9.70	310.30	0.10	4.50	0.00	0.00	0.70	0.00
Sumter	14.20	55.80	1.80	0.80	0.00	0.00	1.20	0.00
Union	0.20	0.00	0.10	0.20	0.00	0.00	0.10	0.00
Williamsburg	0.20	43.80	32.80	2.30	0.00	0.00	4.20	0.00
York	366.70	481.60	42.80	15.60	14.00	2.00	22.10	1.00
<b>STATE TOTAL</b>	<b>726.70</b>	<b>3,976.70</b>	<b>2,647.50</b>	<b>207.70</b>	<b>199.20</b>	<b>102.20</b>	<b>88.50</b>	<b>221.20</b>

from 63,177 tons in FY09 to 42,093 tons in FY10. Specifically, cooking oil, fluorescent bulbs, food scraps, inkjet/toner cartridges, rechargeable batteries, textiles, used motor oil filters (see page 26 for more information), wood packaging and other items decreased while antifreeze, consumer electronics, hazardous household material, mattresses, paint and other wood increased.

It is difficult to offer some comparison because the items are so different from one another, but it is worth noting that local and statewide efforts to increase recycling of certain materials have been successful.



COUNTY	PAINT	RECHARGEABLE BATTERIES	TEXTILES	USED MOTOR OIL FILTERS	WOOD PACKAGING	OTHER WOOD	OTHER ITEMS	TOTAL MISC.
Abbeville	0.00	0.20	0.00	1.70	569.10	0.00	1.30	657.80
Aiken	0.00	6.00	0.00	11.30	89.50	0.00	10.50	192.10
Allendale	0.00	0.00	0.00	1.50	0.10	6.80	2.90	18.80
Anderson	12.30	40.30	310.00	14.10	2,074.90	0.00	14.00	2,780.00
Bamberg	0.00	0.00	0.00	0.50	0.10	0.00	0.70	1.80
Barnwell	0.00	0.00	0.00	2.70	0.10	0.00	0.70	4.20
Beaufort	25.70	19.40	29.00	8.50	443.10	0.00	66.10	1,409.50
Berkeley	0.00	13.50	0.00	78.80	5.20	0.00	210.40	429.20
Calhoun	0.00	0.60	0.00	1.20	23.00	0.10	1.50	44.50
Charleston	330.30	25.90	0.00	118.50	62.70	0.00	134.20	1,250.70
Cherokee	0.00	0.60	290.10	7.10	528.20	0.30	1.00	860.90
Chester	0.00	0.00	0.00	1.60	5.30	0.00	0.70	8.80
Chesterfield	0.00	1.40	0.00	0.70	20.10	0.00	0.80	26.10
Clarendon	0.00	0.00	0.00	5.60	0.10	0.00	3.00	23.00
Colleton	0.00	0.00	0.00	6.30	0.10	0.00	1.10	29.60
Darlington	0.50	0.40	0.00	3.30	250.10	2.20	0.90	267.40
Dillon	0.00	0.00	0.00	0.50	408.10	5.80	0.70	417.00
Dorchester	0.00	5.60	0.40	6.00	10.10	9,281.10	0.20	9,346.30
Edgefield	0.00	0.00	0.00	4.20	41.40	28.80	2.90	103.60
Fairfield	0.00	0.00	0.00	4.20	0.10	0.00	0.70	5.60
Florence	0.00	0.40	0.00	4.90	0.20	0.00	1,818.30	1,855.80
Georgetown	0.00	10.10	0.00	6.20	0.10	0.00	199.00	256.60
Greenville	3.70	27.40	20.60	228.70	2,135.40	377.70	26.20	3,165.10
Greenwood	0.00	0.60	0.00	1.50	1,333.70	6.00	6.80	1,418.40
Hampton	0.00	0.00	0.00	1.40	6.70	0.00	0.70	65.30
Horry	31.60	17.00	0.00	210.10	61.10	1.00	211.20	2,052.90
Jasper	0.00	0.00	0.00	0.50	0.10	0.00	2.90	46.20
Kershaw	0.00	0.00	0.00	0.50	30.50	0.00	2.90	203.10
Lancaster	4.00	0.20	0.00	6.50	0.10	0.00	0.70	13.00
Laurens	0.00	0.10	0.00	0.50	82.90	0.30	25.00	166.80
Lee	0.00	0.00	0.00	4.20	0.10	0.00	2.90	8.70
Lexington	4.90	1.60	24.00	21.50	1,176.90	1,000.00	25.60	2,563.00
Marion	0.00	0.00	0.00	6.10	0.10	0.00	0.70	11.40
Marlboro	0.00	0.40	0.00	1.30	7.10	0.00	2.80	18.00
McCormick	0.00	0.00	0.00	2.00	0.10	25.00	3.10	32.80
Newberry	0.00	0.00	0.00	2.50	893.60	0.00	0.70	955.50
Oconee	0.10	6.50	0.00	15.60	1,071.80	6.00	6.00	1,321.20
Orangeburg	6.30	0.20	0.00	4.00	35.10	0.00	83.70	169.00
Pickens	0.30	19.70	0.00	25.90	178.00	12.60	102.80	1,223.30
Richland	1.40	20.40	0.00	4.40	62.80	65.50	23.50	883.30
Saluda	0.30	0.00	0.00	7.90	408.60	0.00	0.70	420.90
Spartanburg	0.00	1.90	0.00	11.10	1,749.50	0.30	27.00	2,115.10
Sumter	0.00	6.10	46.50	35.10	2.60	35.50	3.00	202.60
Union	0.00	0.00	0.00	1.50	57.90	0.30	0.70	61.00
Williamsburg	0.00	0.00	0.00	13.40	1.10	0.00	2.70	100.50
York	17.20	62.50	110.50	329.80	1,375.40	2,010.20	36.80	4,888.20
<b>STATE TOTAL</b>	<b>439.00</b>	<b>289.50</b>	<b>831.10</b>	<b>1,225.20</b>	<b>15,201.90</b>	<b>12,865.40</b>	<b>3,070.80</b>	<b>42,092.60</b>

## COMMODITY: **MIXED RECYCLABLES**

In contrast to the other commodity sections where information on specific recyclables is provided, this section presents information on recyclables that are not collected separately. A trend toward collecting mixed recyclables – in the interest of enhancing participation, improving collection efficiencies and increasing the volume of recyclables collected – is occurring in South Carolina and beyond.

In FY10, 14 counties reported collecting some residential mixed recyclables. That is an increase from nine counties reporting in FY09. The amount of residential material collected also increased 73 percent to 19,153 tons. Overall, however, the amount of material collected as mixed recyclables decreased in the other categories where there is voluntary reporting – commercial and industrial – from 45,846 tons to 29,648 tons in FY10.

There are several approaches to collecting mixed recyclables. In single-stream recycling programs, paper products and containers (e.g., plastic bottles, aluminum cans, glass bottles) are collected in one container or bag. The collected material is later sorted and marketed. In other programs, often called dual-stream or commingled recycling, paper is collected separately from other recyclables. Other variations of collecting mixed recyclables also exist.

As a result of the recyclables being mixed prior to marketing, it is difficult to report individual volumes for specific types of material. Instead, a total amount is often provided. These total amounts are counted as MSW in this report and included in the state's official MSW recycling rate.



**TABLE 3.22: Mixed Recyclables by County**

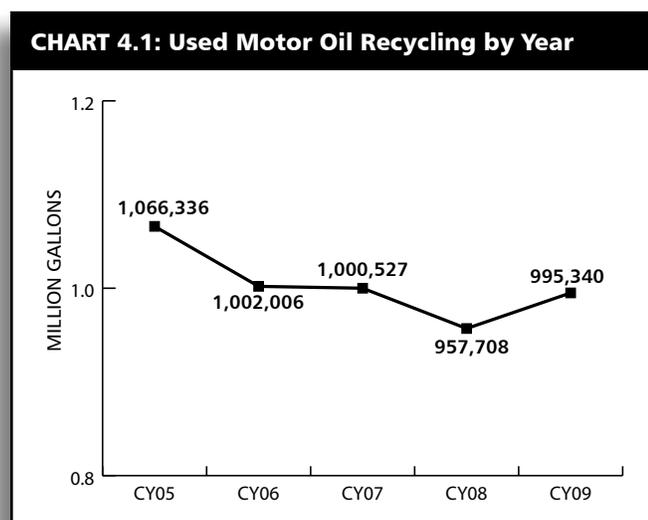
COUNTY	TONS
Abbeville	0.00
Aiken	9.40
Allendale	0.00
Anderson	404.50
Bamberg	0.00
Barnwell	0.00
Beaufort	3,213.20
Berkeley	2,200.00
Calhoun	0.00
Charleston	4,546.00
Cherokee	295.00
Chester	0.00
Chesterfield	216.90
Clarendon	293.30
Colleton	0.00
Darlington	295.70
Dillon	0.00
Dorchester	1.30
Edgefield	0.00
Fairfield	0.00
Florence	806.20
Georgetown	0.00
Greenville	104.00
Greenwood	0.00
Hampton	13.60
Horry	218.20
Jasper	0.00
Kershaw	0.00
Lancaster	0.00
Laurens	0.00
Lee	0.00
Lexington	4,566.80
Marion	469.10
Marlboro	0.00
McCormick	0.00
Newberry	0.00
Oconee	0.00
Orangeburg	0.00
Pickens	21.50
Richland	7,988.80
Saluda	0.00
Spartanburg	1,961.10
Sumter	0.00
Union	0.00
Williamsburg	321.50
York	1,701.60
<b>STATE TOTAL</b>	<b>29,647.50</b>

# USED MOTOR OIL RECYCLING

The S.C. Solid Waste Policy and Management Act of 1991 (Act) requires the S.C. Department of Health and Environmental Control's (DHEC) to annually compile a report on the state's used motor oil recycling program for do-it-yourself oil changers (DIYers). According to the Act, the report must include:

- the amount of used motor oil collected in each county;
- the number of used motor oil collection sites available in each county; and
- a summary of local government programs receiving grant funding from DHEC.

The Act requires that operators of used motor oil collection sites must report to DHEC the amount of used motor oil collected each calendar year. Grant funding and the solid waste data in this publication are reported by fiscal year. For purposes of this report, however, the amount of used motor oil collected is presented in two ways: 1) by calendar year 2009; and 2) by fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010).



In 2009, DIYers recycled 995,340 gallons of used motor oil. For this report, only used motor oil generated and recycled by DIYers is counted as part of the state's MSW recycling rate. Chart 4.1 illustrates the growth of the used motor oil collection program for DIYers (by calendar year) while Table 4.2 lists the amount of used motor oil collected in each county in FY10. The 963,714 gallons of used motor oil collected in FY10 equates to 3,373 tons.

Annual collection data for DIY used motor oil recycling seems to indicate a plateau of about 1 million gallons as seen in Chart 4.1. This leveling off may be attributed to several factors including: 1) U.S. Department of Energy reports that the DIY population decreased from 60 to 45 percent between 1995 and 2004; 2) many local governments use DIY used motor oil in waste oil heaters and may not track or report that volume; and 3) frequency of DIY oil changes may be decreasing due to the economy, use of synthetic motor oil and new manufacturer recommendations.

There is a two-cents fee per quart of motor oil collected at the wholesale level. With this funding, the program has grown to more than 800 collection sites across the state. Part of this growth can be attributed to retail outlets, quick lubes and auto parts stores that accept used motor oil from DIYers in addition to local government collection sites. Table 4.2 provides a breakdown of the number of collection sites for DIYers in each county.

In FY10, \$628,653 was awarded to local government programs to support the collection and recycling of used motor oil from DIYers. The amount of individual grant awards for FY10 is provided in Table 4.2. Grant funds are used primarily for the purchase of equipment and supplies associated with used motor oil collection sites. Funds also are used to cover contractor costs for used motor oil filter recycling, public education and career development of local recycling professionals. In addition to used motor

oil, most county recycling programs also collect used motor oil filters and motor oil bottles from DIYers. The amounts of used motor oil filters and motor oil bottles recycled are not always available as many counties collect and market filters with other metals and bottles with other HDPE plastic bottles and jugs. As a result, the data presented in Table 3.21 on page 23 does not reflect the full extent of used motor oil filter recycling in South Carolina.

Overall, there are few barriers to recycling used motor oil, used motor oil filters and motor oil bottles. Markets are not an issue. The S.C. Budget and Control

Board has developed a state-term contract to assist local governments and others in marketing used motor oil and used motor oil filters. In fact, the state-term contract vendor for used motor oil collection and recycling pays contract users 49 cents per gallon of used motor oil collected. Other markets for used motor oil recycling – including Santee Cooper – are available as well.

Bottles, if properly drained, can be recycled with other HDPE plastic. In addition to the state-term contract, local scrap dealers and steel mills accept drained/crushed used oil filters for recycling.

**TABLE 4.2: Number of DIY Used Motor Oil Collection Sites, FY10 Grant Funding Awarded for DIY Used Motor Oil Recycling Programs and DIY Used Motor Oil Recycled by County**

COUNTY/ MUNICIPALITY	NUMBER OF COLLECTION SITES	GRANT FUNDING	GALLONS COLLECTED	COUNTY/ MUNICIPALITY	NUMBER OF COLLECTION SITES	GRANT FUNDING	GALLONS COLLECTED
Abbeville	13	\$6,572	8,851	Hampton	12	\$5,989	5,520
Aiken	26	\$4,000	41,618	Horry	37	\$8,000	59,465
■ City of Aiken	—	\$3,750	—	Jasper	6	\$8,000	7,178
Allendale	6	\$14,380	1,444	Kershaw	15	\$5,950	22,976
Anderson	29	\$8,150	36,695	Lancaster	15	\$4,000	21,245
Bamberg	10	\$4,780	3,533	Laurens	13	\$0	13,608
Barnwell	14	\$10,360	7,774	■ City of Clinton	—	\$1,000	—
Beaufort	16	\$9,352	26,779	Lee	10	\$17,900	2,990
Berkeley	16	\$12,510	47,834	Lexington	25	\$39,378	93,240
Calhoun	10	\$23,960	5,837	Marion	9	\$7,858	5,473
Charleston	24	\$25,100	46,090	Marlboro	17	\$7,900	3,978
Cherokee	17	\$5,080	7,110	McCormick	4	\$4,000	2,107
Chester	15	\$15,740	9,880	Newberry	16	\$48,732	10,521
Chesterfield	10	\$15,764	7,849	Oconee	21	\$27,200	19,467
Clarendon	19	\$16,750	10,792	■ City of Seneca	—	\$2,250	—
Colleton	18	\$9,620	9,777	Orangeburg	29	\$4,720	18,891
Darlington	18	\$4,000	13,146	Pickens	18	\$15,550	36,272
Dillon	14	\$5,000	6,349	Richland	24	\$24,515	31,308
■ City of Hartsville	—	\$500	—	■ City of Columbia	—	\$2,250	—
Dorchester	19	\$11,500	34,954	Saluda	9	\$4,000	6,602
Edgefield	10	\$4,000	12,211	Spartanburg	38	\$25,710	63,580
Fairfield	12	\$15,713	6,278	■ Town of Lyman	—	\$2,250	—
Florence	28	\$5,730	25,920	Sumter	21	\$19,600	22,310
Georgetown	22	\$5,600	20,115	■ City of Sumter	—	\$2,250	—
Greenville	37	\$14,780	52,749	Three Rivers SWA*	—	\$500	—
■ City of Greenville	—	\$7,250	—	Tri-County SWA**	—	\$1,500	—
■ City of Simpsonville	—	\$5,000	—	Union	11	\$23,900	5,362
■ Greater Greenville Sanitation Commission	—	\$1,830	—	Williamsburg	25	\$16,150	5,906
Greenwood	14	\$4,040	11,379	York	33	\$17,000	50,746
				■ City of Rock Hill	—	\$9,790	—
				<b>STATE TOTAL</b>	<b>825</b>	<b>\$628,653</b>	<b>963,714</b>

\* The Three Rivers Solid Waste Authority (SWA) provides solid waste management services to local governments in Aiken, Allendale, Bamberg, Barnwell, Calhoun, Edgefield, McCormick, Orangeburg and Saluda counties.

\*\* The Tri-County SWA provides solid waste management services to local governments in Edgefield, McCormick and Saluda counties.

# RECYCLING DATA FOR STATE AGENCIES & COLLEGES/UNIVERSITIES

The S.C. Solid Waste Policy and Management Act of 1991 was amended on October 3, 2000 requiring state agencies as well as state-supported colleges and universities to:

- submit to DHEC a report detailing their recycling programs; and
- provide a list of products purchased during the previous fiscal year that contain recycled materials.

DHEC is responsible for compiling and reviewing data from these reports and publishing the “State Agencies/Colleges & Universities Recycling & Buy Recycled Annual Report” by November 1 each year. This report provides information for fiscal year (FY) 2010 reflecting activities from July 1, 2009 through June 30, 2010.

In addition to summarizing the information reported, the Act also requires DHEC to determine what percentage of state purchases contain recycled materials and include this information in the report. Although a statewide tracking system is not in place, DHEC asks respondents to report what is purchased (instead of how much). Not surprisingly, many schools and agencies reported buying recycled-content copy paper, toner/inkjet cartridges as well as bathroom paper products.

There are some options available for purchasing officials to buy recycled-content products on state contract. Typically, a state contract is established by the S.C. Budget and Control Board’s Materials Management Office when it has been determined that an item has widespread use throughout the state. Currently, recycled-content paper and envelopes as well as plastic trash can liners and

bathroom paper products are available on state-term contract.

In FY10, 16,795 tons of material was recycled by state agencies and colleges/universities, which is a slight increase (about 8 percent) from the 15,507 tons recycled in FY09. The recycling information was compiled from 67 state agencies as well as 29 colleges and universities, down one from FY09. Data regarding the amount of material recycled was received either directly from the state agency that completed a recycling survey or the tonnages were received from one of two programs that serve the various buildings where the agencies are located – including the S.C. Budget and Control Board’s General Services or the S.C. Department of Corrections.

In addition, both public and private colleges/universities efforts are included in this report, although only state-supported schools are required to provide information. Also, in FY10, DHEC made 19 site visits to colleges and state agencies and began working on a College Recycling Professional Certification. In addition, more than 1,200 recycling bins were distributed through a grant from Alcoa Recycling Company.

Finally, the Environmentally Preferred Purchasing (EPP) Policy and Standards was created by the Green Purchasing Initiative Committee. This committee was comprised of representatives from the S.C. Budget and Control Board, S.C. Department of Commerce and DHEC. The EPP Policy and Standards applies to all state agencies and publicly funded colleges and universities and is available at [www.mmo.sc.gov](http://www.mmo.sc.gov). One of the goals of this policy is to develop a statewide tracking system for the purchase of recycled-content products.

# RECYCLING DATA: STATE AGENCIES

Sixty-seven state agencies recycled 7,161 tons of material in FY10. Fifty agencies reported directly to DHEC in response to a recycling survey; the other 17 agencies reported through their recycling vendor. Of the total amount recycled, the No. 1 item recycled was ferrous metal (e.g., steel furniture, drums), followed by office paper.

When it comes to buying recycled-content products, of the 38 state agencies that responded, 31 reported purchasing recycled-content copy paper, followed by 28 agencies purchasing recycled-content toner and/or inkjet cartridges.

## S.C. State Agencies Reporting for FY10

- Administrative Law Court
- Arts Commission
- Attorney General
- Budget and Control Board
- Commission for the Blind
- Commission on Higher Education
- Commission on Indigent Defense
- Commission for Minority Affairs
- Commission on Prosecution Coordination
- Comptroller General
- Criminal Justice Academy
- Department of Agriculture
- Department of Alcohol and Other Drug Abuse Services
- Department of Archives and History
- Department of Commerce
- Department of Consumer Affairs
- Department of Corrections
- Department of Education
- Department of Health and Environmental Control
- Department of Health and Human Services
- Department of Insurance
- Department of Juvenile Justice
- Department of Labor, Licensing and Regulation
- Department of Mental Health
- Department of Motor Vehicles
- Department of Natural Resources
- Department of Parks, Recreation and Tourism
- Department of Probation, Parole and Pardon Services
- Department of Public Safety
- Department of Revenue
- Department of Social Services
- Department of Transportation
- Education Lottery Commission
- Education Oversight Committee
- Education Television Network
- Emergency Management Division
- Employment Security Commission
- Ethics Commission
- Forestry Commission
- Governor's Mansion
- Governor's Office
- Higher Education Tuition Grants Commission
- Human Affairs Commission
- Jobs-Economic Development Authority
- Judicial Department
- Legislative Audit Council
- Legislative Printing, Information and Technology Systems
- Lt. Governor's Office
- Office of the Adjutant General
- Office of Regulatory Staff
- Office of the State Auditor
- Office of the State Treasurer
- Patriots Point Development Authority
- Public Service Commission
- Santee Cooper
- Sea Grant Consortium
- Second Injury Fund
- Secretary of State
- State Accident Fund
- State Board of Technical and Comprehensive Education
- State Housing Finance and Development Authority
- State Law Enforcement Division
- State Library
- State Museum
- State Ports Authority
- Vocational Rehabilitation Department
- Workers' Compensation Commission

COMMODITIES RECYCLED		AMOUNT (tons)
PAPER	Magazines	63.90
	Office paper	1,118.62
	Newspapers and inserts	9.25
	Corrugated cardboard	395.23
	Phone books	22.72
	Paperboard	1.23
	Other/mixed paper	527.55
PLASTIC (Bottles)	#1 PET	24.07
	#2 HDPE	3.20
	#3 Vinyl	1.35
	Other/mixed plastic bottles	19.05
PLASTIC (Film)	#2 HDPE	52.96
	#4 LDPE	0.00
	Other/mixed plastic film	7.97
METAL	Aluminium (cans, foil)	131.52
	Steel cans	179.41
	Other ferrous metals	1,750.41
	Appliances	7.78
	Other/mixed metal	618.69
GLASS (Containers & Packaging)	Brown	1.04
	Clear	1.45
	Green	0.44
	Other/mixed glass	6.50
WOOD	Pallets	16.72
	Furniture and cabinets	4.42
	Other/mixed wood	0.32
YARD TRIMMINGS/FOOD SCRAPS	Grass clippings	6.54
	Food scraps	0.53
OTHER MATERIALS	Rechargeable batteries	31.38
	Antifreeze	11.24
	Construction & demolition (C&D) debris	537.67
	Consumer electronics	6.92
	Cooking oil	5.95
	Fluorescent bulbs	19.42
	Lead-acid batteries	96.84
	Paint (oil or latex)	0.36
	Tires	125.03
	Toner cartridges	13.37
	Used motor oil	602.89
Used oil filters	38.52	
Other*	699.03	
<b>TOTAL</b>		<b>7,161.49</b>

# RECYCLING DATA: COLLEGES/UNIVERSITIES

Twenty-nine colleges and universities reported recycling 9,634 tons of material. In addition to the list below, one school – S.C. State University – started a comprehensive recycling program on campus in FY10 and another school – Columbia College – offers a recycling program but weights were not available. The No. 1 item recycled was mixed wood, followed by cardboard.

When it comes to buying recycled-content products, 20 colleges and universities reported purchasing recycled-content copy paper, followed by 17 schools purchasing recycled-content bathroom paper products.

## S.C. Colleges & Universities Reporting for FY10

- Aiken Technical College
- Bob Jones University
- Central Carolina Technical College
- Centura College
- The Citadel
- Clemson University
- Coastal Carolina University
- College of Charleston
- Florence-Darlington Technical College
- Francis Marion University
- Furman University
- Greenville Technical College
- Horry-Georgetown Technical College
- Lander University
- The Medical University of South Carolina
- Midlands Technical College
- Northeastern Technical College
- Orangeburg-Calhoun Technical College
- Piedmont Technical College
- Technical College of the Lowcountry
- Trident Technical College
- The University of South Carolina (USC)
- USC – Aiken
- USC School of Medicine
- USC – Sumter
- USC – Upstate
- Williamsburg Technical College
- Winthrop University
- York Technical College

COMMODITIES RECYCLED		AMOUNT (tons)
PAPER	Magazines	18.32
	Office paper	1,038.77
	Newspapers and inserts	28.01
	Corrugated cardboard	1,500.23
	Phone books	28.44
	Paperboard	0.10
	Other/mixed paper	850.74
PLASTIC (Bottles)	#1 PET	47.39
	#2 HDPE	20.11
	#3 Vinyl	0.00
	Other/mixed plastic bottles	37.19
PLASTIC (Film)	#2 HDPE	0.00
	#4 LDPE	0.00
	Other/mixed plastic film	23.72
METAL	Aluminium (cans, foil)	31.84
	Steel cans	83.96
	Other ferrous metals	77.10
	Appliances	2.65
	Other/mixed metal	632.77
GLASS (Containers & Packaging)	Brown	0.00
	Clear	3.82
	Green	0.00
	Other/mixed glass	41.86
WOOD	Pallets	165.85
	Furniture and cabinets	57.48
	Other/mixed wood	1,995.79
YARD TRIMMINGS/ FOOD SCRAPS	Grass clippings	1,099.96
	Food scraps	24.00
OTHER MATERIALS	Rechargeable batteries	3.40
	Antifreeze	1.32
	C&D debris	658.22
	Consumer electronics	181.45
	Cooking oil	69.35
	Fluorescent bulbs	50.44
	Lead-acid batteries	400.49
	Paint (oil or latex)	3.75
	Tires	9.35
	Toner cartridges	11.51
	Used motor oil	144.72
	Used oil filters	55.94
	Other*	233.70
<b>TOTAL</b>		<b>9,633.74</b>



# THE STATE & COUNTIES AT A GLANCE

South Carolina's municipal solid waste (MSW) recycling rate increased to 25.5 percent in fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010) from 22.1 percent in FY09. In South Carolina, only MSW is used to measure the state's recycling efforts. (See the definition on page 6.) Overall, the amount of MSW recycled increased about 16 percent from 912,961 tons in FY09 to 1,063,521 tons in FY10.

Counties are required to annually report MSW recycling data to DHEC for glass, metal, paper, plastic, mixed recyclables as well as banned and miscellaneous items.

Recycling data also was collected from other sources. These additional recycling tonnages came from tire processors, the state's electronics recycling contractor, used motor oil collectors, state agencies and colleges/universities as well as various businesses and industries. The tonnages were distributed to counties based on population or source.

It also is important to note that business and industry reporting is strictly voluntary. The fluctuation in business reporting both up and down – depending on the year – highlights an issue that continues to impact the state's efforts to accurately measure recycling programs.

**TABLE 6.1: S.C. MSW Recycling Rate**

GOAL	FY09	FY10
35.0%	22.1%	25.5%

**TABLE 6.2: S.C. MSW Recycling Tonnages**

—	FY10 TONS	+/- IN TONS FROM FY09	CHANGE
State Recycling Effort	1,063,521	+150,560	+16%
Residential Only	421,635	+152,124	+56%

In summary, this report, while thoroughly vetted, relies on some voluntary reporting.

Once collected, the data is placed into one of four categories based on the source of the material: residential; commercial; institutional/non-profit; and industrial packaging/office. See Table 2.2 on page 6 for types and examples of material from each of these sources.

In FY10, three counties met the state's recycling goal of 35 percent – Greenville, Pickens and York. In addition, 29 counties met the state's disposal goal of 3.5 pounds per person per day. They include: Abbeville; Aiken; Allendale; Bamberg; Berkeley; Chester; Chesterfield; Clarendon; Colleton; Darlington; Dorchester; Edgefield; Georgetown; Hampton; Kershaw; Lancaster; Laurens; Lee; Lexington; Marion; Marlboro; McCormick; Oconee; Orangeburg; Pickens; Saluda; Sumter; Williamsburg; and York.

## About this Section...

This section includes state and county MSW data and is divided into three parts.

Table 6.4 – “Statewide MSW Recycling Data in Tons” (on page 32) – reflects statewide recycling amounts for all of the materials within each category. In addition, the number of curbside programs and drop-off recycling centers are provided in Table 6.3.

Table 6.5 – “State & County MSW Recycling, Disposal & Generation Rates” (on page 34) – summarizes MSW recycling and disposal information. It provides a county-by-county breakdown of MSW recycling, disposal and generation. Recycling data is listed by percentage (how it is measured statewide), tons and in pounds per person per day (p/p/d) by county. The total amount of MSW disposed of in a landfill, incinerated or exported is combined and listed in the disposed column. The MSW disposed of is listed in tons and p/p/d. Generation equals recycling plus disposal and is listed in p/p/d.

Beginning with Table 6.6 – “State & County MSW Recycling” (beginning on page 35) – the amount of material collected for recycling by each county, broken down by commodity and source is provided.

# STATE & COUNTY MSW RECYCLING

The following pages highlight the state's and individual county's reported MSW recycling efforts broken down by type of material recycled as well as the number of drop-off centers and curbside recycling programs.

Because there are differences in how counties define curbside programs, counties were asked to identify curbside programs that met the following criteria: 1) the local government provides recycling as part of its curbside solid waste services; or 2) it contracts solid waste services or has a franchise system that requires the service provider to offer curbside recycling as part of that contract or franchise. Two counties – Charleston and Richland – offer

countywide curbside collection of recyclables to single-family dwellings. For purposes of this report, those programs are each counted as one.

**TABLE 6.3: Number of Curbside Recycling Programs & Drop-off Sites in South Carolina**

RECYCLING OPPORTUNITIES	FY09	FY10
Curbside Recycling Programs	81	79
Drop-off Collection Sites	637	643
Used Motor Oil Collection Sites	825	825

**TABLE 6.4: Statewide MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
<b>GLASS</b>					
Containers and Packaging – Brown	1,722.80	16.80	1.00	2.90	1,743.60
Containers and Packaging – Clear	3,070.20	26.10	5.60	1.00	3,102.80
Containers and Packaging – Green	2,121.00	5.20	0.40	1.00	2,127.70
Containers and Packaging – Not Sorted by Colors	5,996.40	2,434.90	49.60	1.90	8,482.80
Glass from Furniture, Appliances and Consumer Electronics	0.00	0.00	0.00	0.30	0.30
<b>TOTAL GLASS</b>	<b>12,910.50</b>	<b>2,482.90</b>	<b>56.60</b>	<b>7.10</b>	<b>15,457.20</b>
<b>METAL</b>					
Aluminum Cans	1,713.20	805.80	178.00	364.50	3,061.50
Steel Cans	1,289.40	127.70	336.40	999.40	2,752.90
Non-ferrous, Non-magnetic	16.60	2,459.00	10.40	599.40	3,085.50
Ferrous, Magnetic	419.20	32,591.60	1,848.90	181,279.00	216,138.70
Other/Mixed Scrap Metal	24,289.80	22,930.10	1,859.20	19,017.10	68,096.20
<b>TOTAL METAL</b>	<b>27,728.10</b>	<b>58,914.30</b>	<b>4,233.00</b>	<b>202,259.40</b>	<b>293,134.80</b>
<b>PAPER</b>					
Cardboard	29,250.40	183,325.40	4,739.70	36,605.30	253,920.80
Magazines	36.10	47.10	88.60	15.70	187.50
Newspapers and Inserts	25,089.10	1,720.20	117.80	136.10	27,063.10
Office Paper	3,853.00	23,794.00	2,434.00	1,476.50	31,557.40
Paperboard	738.20	103.50	26.40	6.30	874.40
Telephone Books	336.10	77.20	56.20	9.40	478.90
Other/Mixed Paper	22,272.10	13,282.20	2,087.60	1,448.90	39,090.90
<b>TOTAL PAPER</b>	<b>81,575.00</b>	<b>222,349.70</b>	<b>9,550.30</b>	<b>39,698.20</b>	<b>353,173.00</b>

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
<b>PLASTIC</b>					
PETE (1) – Polyethylene Terephthalate	2,063.50	38.80	79.80	27.60	2,209.70
HDPE (2) – High Density Polyethylene	1,977.70	46.50	78.30	329.60	2,432.20
Commingled #1 and #2	2,282.60	2,912.90	41.90	38.70	5,276.10
V (3) – Vinyl or PVC	0.00	2.00	1.40	200.00	203.40
LDPE (4) – Low Density Polyethylene	0.00	556.80	1.60	51.00	609.40
PP (5) – Polypropylene	0.00	0.00	0.00	2.40	2.40
PS (6) – Polystyrene	0.00	0.00	0.00	0.00	0.00
Other (7)	0.00	0.00	0.00	0.00	0.00
Mixed Plastic	668.50	2,484.90	56.80	1,898.00	5,108.10
<b>TOTAL PLASTIC</b>	<b>6,992.30</b>	<b>6,042.00</b>	<b>259.80</b>	<b>2,547.30</b>	<b>15,841.30</b>
<b>BANNED ITEMS</b>					
Appliances	15,630.80	1,118.00	48.20	0.00	16,797.00
Lead-acid Batteries (from cars, trucks and motorcycles; small sealed lead-acid batteries)	885.70	13,125.20	527.20	133.00	14,671.10
Used Motor Oil (from cars, trucks and motorcycles)	3,373.00	0.00	0.00	0.00	3,373.00
Tires (automobiles, trucks and motorcycles)	30,164.40	24,320.80	190.20	379.90	55,055.40
Yard Trimmings	210,678.60	12,493.70	1,106.60	0.00	224,278.90
<b>TOTAL BANNED ITEMS</b>	<b>260,732.50</b>	<b>51,057.70</b>	<b>1,872.20</b>	<b>512.90</b>	<b>314,175.40</b>
<b>MISCELLANEOUS ITEMS</b>					
Antifreeze	52.80	275.30	23.80	374.80	726.70
Consumer Electronics	1,995.50	1,026.80	620.00	334.40	3,976.70
Cooking Oil	136.70	2,415.90	92.10	2.70	2,647.50
Fluorescent Bulbs	27.60	47.00	78.50	54.60	207.70
Food Scraps	0.20	174.40	24.50	0.00	199.20
Household Hazardous Materials	102.20	0.00	0.00	0.00	102.20
Inkjet and Toner Cartridges	4.70	47.00	19.80	17.10	88.50
Mattresses	143.90	11.10	66.30	0.00	221.20
Paint	411.40	4.80	4.30	18.50	439.00
Rechargeable Batteries	79.40	122.80	35.80	51.50	289.50
Textiles	149.30	24.00	29.00	628.80	831.10
Used Motor Oil Filters	178.50	675.50	101.00	270.20	1,225.20
Wood Packaging	74.30	1,025.50	393.50	13,708.60	15,201.90
Other Wood	9,094.00	1,390.10	2,092.70	288.60	12,865.40
Items Not Listed Above	98.00	1,954.00	932.90	85.80	3,070.80
<b>TOTAL MISCELLANEOUS ITEMS</b>	<b>12,548.50</b>	<b>9,194.20</b>	<b>4,514.20</b>	<b>15,835.60</b>	<b>42,092.60</b>
<b>MIXED RECYCLABLES</b>					
Mixed Recyclables	19,152.90	8,927.90	1,193.40	373.30	29,647.50
<b>TOTAL MIXED RECYCLABLES</b>	<b>19,152.90</b>	<b>8,927.90</b>	<b>1,193.40</b>	<b>373.30</b>	<b>29,647.50</b>
<b>TOTAL FOR ALL</b>	<b>421,639.80</b>	<b>358,968.70</b>	<b>21,679.50</b>	<b>261,233.80</b>	<b>1,063,521.20</b>

NOTE: Some totals do not add up due to rounding of numbers.

**TABLE 6.5: State & County MSW Recycling, Disposal & Generation Rates**

COUNTY	POPULATION	RECYCLING RATE (PERCENT)	RECYCLED (P/P/D)	DISPOSED (P/P/D)	GENERATION (P/P/D)	RECYCLED (TONS)	DISPOSED (TONS)
Abbeville	25,098	20.1	0.6	2.3	2.9	2,660	10,595
Aiken	156,017	11.5	0.4	3.4	3.9	12,698	97,343
Allendale	10,195	8.5	0.2	2.3	2.5	402	4,329
Anderson	184,901	14.1	0.6	3.6	4.1	19,619	119,949
Bamberg	15,005	14.0	0.6	3.4	4.0	1,524	9,346
Barnwell	22,688	9.5	0.4	3.7	4.1	1,632	15,502
Beaufort	170,419	20.8	1.1	4.1	5.2	33,574	127,930
Berkeley	173,498	9.8	0.4	3.5	3.9	12,137	111,990
Calhoun	14,621	7.9	0.5	6.2	6.7	1,404	16,436
Charleston	355,276	31.4	2.0	4.4	6.4	130,066	284,718
Cherokee	54,714	16.8	1.1	5.5	6.6	11,119	54,908
Chester	32,410	9.6	0.3	3.1	3.4	1,928	18,194
Chesterfield	43,037	12.5	0.3	2.0	2.3	2,237	15,707
Clarendon	32,988	19.1	0.6	2.4	3.0	3,396	14,387
Colleton	39,246	13.7	0.5	2.9	3.4	3,298	20,730
Darlington	66,445	11.5	0.4	2.8	3.2	4,412	33,911
Dillon	30,912	22.1	1.1	4.0	5.2	6,438	22,687
Dorchester	130,417	28.1	1.2	3.0	4.2	28,168	71,941
Edgefield	25,752	22.0	0.8	2.8	3.6	3,691	13,097
Fairfield	23,343	8.9	0.5	4.9	5.4	2,039	20,935
Florence	134,208	19.9	1.0	4.2	5.2	25,537	102,626
Georgetown	60,703	21.3	0.9	3.5	4.4	10,365	38,279
Greenville	451,428	37.1	2.3	3.9	6.2	188,880	319,684
Greenwood	69,671	20.7	1.2	4.8	6.0	15,848	60,847
Hampton	21,014	18.6	0.7	3.2	4.0	2,817	12,347
Horry	263,868	27.0	1.8	4.7	6.5	84,704	228,528
Jasper	23,221	8.1	0.3	3.6	4.0	1,368	15,432
Kershaw	60,042	25.9	0.9	2.6	3.5	9,953	28,406
Lancaster	77,767	17.8	0.4	1.9	2.4	5,994	27,612
Laurens	70,045	18.3	0.7	3.3	4.0	9,346	41,628
Lee	19,722	25.6	0.9	2.6	3.5	3,242	9,409
Lexington	255,607	31.3	1.4	3.0	4.4	64,611	141,796
Marion	33,468	24.9	0.9	2.8	3.7	5,632	16,991
Marlboro	28,783	17.4	0.5	2.6	3.1	2,822	13,437
McCormick	10,140	22.2	0.7	2.5	3.2	1,307	4,589
Newberry	38,763	17.7	1.1	5.0	6.0	7,520	35,050
Oconee	71,514	28.2	1.4	3.5	4.9	17,879	45,518
Orangeburg	90,112	20.1	0.9	3.5	4.4	14,590	57,896
Pickens	118,144	36.9	1.3	2.2	3.5	27,754	47,544
Richland	372,023	19.5	1.0	4.2	5.3	69,768	288,202
Saluda	19,094	18.5	0.7	2.9	3.5	2,289	10,076
Spartanburg	286,822	22.6	1.4	4.8	6.1	72,836	248,906
Sumter	104,495	21.7	0.8	3.0	3.8	15,677	56,717
Union	27,362	11.4	0.5	3.9	4.4	2,481	19,272
Williamsburg	34,445	17.6	0.5	2.5	3.0	3,335	15,633
York	227,003	44.6	2.8	3.4	6.2	114,520	142,308
<b>STATE TOTAL</b>	<b>4,576,446</b>	<b>25.5</b>	<b>1.3</b>	<b>3.7</b>	<b>5.0</b>	<b>1,063,521</b>	<b>3,113,365</b>

NOTE: Some county totals do not add up due to rounding of numbers.

## ABBEVILLE COUNTY



Drop-off Recycling Centers: 12  
Curbside Recycling Program: Town of Abbeville

**TABLE 6.6: Abbeville County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.30	0.00	0.03
Metal	406.50	17.00	8.40	0.00	431.90
Paper	209.60	585.80	2.40	412.40	1,210.20
Plastic	0.00	0.00	0.40	20.40	20.70
Banned Items	207.40	129.00	2.80	0.20	339.40
Miscellaneous	85.80	0.00	2.00	570.00	657.90
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>909.30</b>	<b>731.80</b>	<b>16.30</b>	<b>1,003.00</b>	<b>2,660.40</b>

## AIKEN COUNTY



Drop-off Recycling Centers: 12  
Curbside Recycling Programs: Municipalities of Aiken, New Ellenton and North Augusta

**TABLE 6.7: Aiken County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	96.20	0.00	0.04	0.00	96.60
Metal	1,491.20	72.50	20.00	0.00	1,583.70
Paper	4,313.60	3,574.70	35.80	0.00	7,924.10
Plastic	138.30	23.60	3.10	0.00	165.00
Banned Items	840.70	1,882.00	4.10	0.00	2,726.80
Miscellaneous	56.60	122.80	12.60	0.00	192.00
Mixed Recyclables	9.40	0.00	0.00	0.00	9.40
<b>TOTAL</b>	<b>6,946.20</b>	<b>5,675.60</b>	<b>76.00</b>	<b>0.00</b>	<b>12,697.70</b>

## ALLENDALE COUNTY



Drop-off Recycling Centers: 5  
Curbside Recycling Programs: 0

**TABLE 6.8: Allendale County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	5.80	0.00	0.00	0.00	5.80
Metal	34.50	0.00	14.30	0.00	48.80
Paper	7.70	209.00	23.90	0.00	240.60
Plastic	1.50	0.00	2.30	0.00	3.80
Banned Items	27.70	53.00	3.90	0.00	84.60
Miscellaneous	14.80	0.00	4.00	0.00	18.80
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>92.10</b>	<b>262.00</b>	<b>48.40</b>	<b>0.00</b>	<b>402.40</b>

## ANDERSON COUNTY



Drop-off Recycling Centers: 17

Curbside Recycling Programs: Municipalities of Belton and Pendleton

**TABLE 6.9: Anderson County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	360.60	4.10	0.30	0.00	365.00
Metal	1,427.30	152.70	95.70	520.20	2,195.90
Paper	1,296.90	6,012.00	485.60	3,320.40	11,114.70
Plastic	29.60	100.30	3.20	72.70	205.80
Banned Items	933.10	1,613.90	4.00	1.90	2,552.80
Miscellaneous	0.30	301.60	11.70	2,466.40	2,780.10
Mixed Recyclables	0.00	37.90	366.60	0.00	404.50
<b>TOTAL</b>	<b>4,047.80</b>	<b>8,222.60</b>	<b>967.10</b>	<b>6,381.50</b>	<b>19,618.90</b>

## BAMBERG COUNTY



Drop-off Recycling Centers: 8

Curbside Recycling Programs: 0

**TABLE 6.10: Bamberg County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	0.00	0.00	8.40	0.00	8.40
Paper	117.00	306.00	2.30	0.00	425.40
Plastic	0.50	0.00	0.40	0.00	0.90
Banned Items	1,008.10	77.00	2.80	0.00	1,087.80
Miscellaneous	0.00	0.00	1.80	0.00	1.80
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,125.60</b>	<b>383.00</b>	<b>15.80</b>	<b>0.00</b>	<b>1,524.40</b>

## BARNWELL COUNTY



Drop-off Recycling Centers: 9

Curbside Recycling Programs: 0

**TABLE 6.11: Barnwell County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	401.30	0.00	8.40	0.00	409.70
Paper	445.90	470.10	2.30	0.00	918.30
Plastic	0.00	1.60	0.40	0.00	1.90
Banned Items	144.10	150.60	2.80	0.00	297.50
Miscellaneous	2.20	0.00	2.00	0.00	4.20
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>993.50</b>	<b>622.30</b>	<b>16.00</b>	<b>0.00</b>	<b>1,631.80</b>

## BEAUFORT COUNTY



Drop-off Recycling Centers: 12

Curbside Recycling Programs: Municipalities of Beaufort, Bluffton and Port Royal

**TABLE 6.12: Beaufort County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	1,069.70	0.00	1.40	0.00	1,071.20
Metal	194.40	6,892.10	589.40	0.00	7,675.90
Paper	3,295.90	5,904.00	1,091.00	0.00	10,290.90
Plastic	323.40	100.70	4.00	0.00	428.20
Banned Items	6,105.50	3,352.20	27.30	0.00	9,485.00
Miscellaneous	141.20	985.20	283.20	0.00	1,409.50
Mixed Recyclables	2,520.80	692.40	0.00	0.00	3,213.20
<b>TOTAL</b>	<b>13,650.90</b>	<b>17,926.60</b>	<b>1,996.40</b>	<b>0.00</b>	<b>33,573.90</b>

## BERKELEY COUNTY



Drop-off Recycling Centers: 22

Curbside Recycling Programs: Berkeley County Franchise and Sangaree Special Tax District

**TABLE 6.13: Berkeley County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.10	0.00	0.00	0.10
Metal	0.00	8.50	465.30	728.30	1,202.00
Paper	1,391.00	4,208.30	114.10	264.50	5,977.90
Plastic	0.00	65.10	2.90	26.70	94.70
Banned Items	867.00	1,085.90	10.90	269.70	2,233.50
Miscellaneous	0.80	77.60	261.30	89.30	429.10
Mixed Recyclables	665.00	1,535.00	0.00	0.00	2,200.00
<b>TOTAL</b>	<b>2,923.80</b>	<b>6,980.40</b>	<b>854.50</b>	<b>1,378.50</b>	<b>12,137.30</b>

## CALHOUN COUNTY



Drop-off Recycling Centers: 10

Curbside Recycling Programs: 0

**TABLE 6.14: Calhoun County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	59.70	0.00	8.00	406.00	473.60
Paper	69.20	353.90	2.10	215.20	640.40
Plastic	1.00	0.00	0.00	4.70	5.70
Banned Items	162.00	75.00	2.70	0.00	239.70
Miscellaneous	7.90	0.00	1.80	34.90	44.50
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>299.70</b>	<b>428.90</b>	<b>14.60</b>	<b>660.80</b>	<b>1,404.00</b>

## CHARLESTON COUNTY



Drop-off Recycling Centers: 51  
Curbside Recycling Program: Limited Area

**TABLE 6.15: Charleston County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	3,152.40	0.70	0.30	0.00	3,153.40
Metal	1,599.60	377.70	460.30	25,072.40	27,510.00
Paper	12,333.20	17,621.80	1,354.10	24.50	31,333.60
Plastic	1,336.40	137.60	23.40	12.00	1,509.40
Banned Items	56,554.70	4,004.20	204.20	0.00	60,763.10
Miscellaneous	700.10	317.90	232.10	0.60	1,250.60
Mixed Recyclables	0.00	4,546.00	0.00	0.00	4,546.00
<b>TOTAL</b>	<b>75,676.50</b>	<b>27,006.00</b>	<b>2,274.40</b>	<b>25,109.50</b>	<b>130,066.30</b>

## CHEROKEE COUNTY



Drop-off Recycling Centers: 7  
Curbside Recycling Programs: Municipalities of Blacksburg and Gaffney as well as the unincorporated areas of Asbury-Rehobeth, Cherokee Falls, Corinth, East Gaffney and Grassy Pond

**TABLE 6.16: Cherokee County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	21.60	21.60	0.20	0.60	44.00
Metal	425.00	3,403.40	16.60	9.50	3,854.50
Paper	744.30	2,769.00	23.10	215.60	3,751.90
Plastic	57.30	14.10	0.80	0.00	72.20
Banned Items	1,746.70	482.40	11.50	0.10	2,240.70
Miscellaneous	46.40	15.90	4.40	794.30	861.00
Mixed Recyclables	0.00	295.00	0.00	0.00	295.00
<b>TOTAL</b>	<b>3,041.20</b>	<b>7,001.50</b>	<b>56.50</b>	<b>1,020.00</b>	<b>11,119.30</b>

## CHESTER COUNTY



Drop-off Recycling Centers: 13  
Curbside Recycling Program: City of Chester

**TABLE 6.17: Chester County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	36.50	0.00	0.20	0.00	36.70
Metal	5.80	0.10	8.60	4.40	18.90
Paper	586.30	667.30	16.70	13.00	1,283.30
Plastic	29.30	2.80	0.40	0.00	32.40
Banned Items	361.10	184.10	2.80	0.00	548.00
Miscellaneous	1.10	0.00	1.80	5.90	8.80
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,020.10</b>	<b>854.20</b>	<b>30.40</b>	<b>23.30</b>	<b>1,928.10</b>

## CHESTERFIELD COUNTY



Drop-off Recycling Centers: 7  
Curbside Recycling Programs: 0

**TABLE 6.18: Chesterfield County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.30	0.00	0.30
Metal	122.20	0.00	9.00	24.30	155.40
Paper	0.00	885.00	9.20	330.20	1,224.30
Plastic	0.00	2.60	3.10	0.70	6.40
Banned Items	357.50	246.90	2.90	0.40	607.80
Miscellaneous	1.60	0.10	2.70	21.60	26.00
Mixed Recyclables	216.90	0.00	0.00	0.00	216.90
<b>TOTAL</b>	<b>698.10</b>	<b>1,134.70</b>	<b>27.10</b>	<b>377.20</b>	<b>2,237.10</b>

## CLARENDON COUNTY



Drop-off Recycling Centers: 12  
Curbside Recycling Programs: 0

**TABLE 6.19: Clarendon County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	39.30	0.00	0.00	0.00	39.30
Metal	397.80	0.00	14.20	0.00	412.00
Paper	1,159.60	785.00	11.00	0.00	1,955.60
Plastic	65.30	2.40	2.30	0.00	70.10
Banned Items	379.60	218.80	3.90	0.00	602.40
Miscellaneous	9.90	0.10	12.90	0.00	22.90
Mixed Recyclables	293.30	0.00	0.00	0.00	293.30
<b>TOTAL</b>	<b>2,344.90</b>	<b>1,006.40</b>	<b>44.30</b>	<b>0.00</b>	<b>3,395.60</b>

## COLLETON COUNTY



Drop-off Recycling Centers: 15  
Curbside Recycling Program: 0

**TABLE 6.20: Colleton County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.50	0.00	0.50
Metal	489.50	931.20	9.20	0.00	1,429.90
Paper	323.80	827.70	3.30	0.00	1,154.70
Plastic	0.90	11.90	1.10	0.00	13.80
Banned Items	306.60	359.70	3.00	0.00	669.20
Miscellaneous	6.60	17.20	5.80	0.00	29.50
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,127.30</b>	<b>2,147.60</b>	<b>22.80</b>	<b>0.00</b>	<b>3,297.60</b>

## DARLINGTON COUNTY



Drop-off Recycling Centers: 14

Curbside Recycling Programs: Municipalities of Darlington, Hartsville and Lamar

**TABLE 6.21: Darlington County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	201.10	0.00	0.00	0.00	201.10
Metal	362.70	169.50	8.10	2.50	542.70
Paper	521.60	1,398.80	15.00	26.30	1,961.60
Plastic	34.40	17.00	0.00	4.00	55.40
Banned Items	692.00	378.50	2.70	15.00	1,088.20
Miscellaneous	7.00	0.70	1.80	257.80	267.30
Mixed Recyclables	199.70	0.00	0.00	96.00	295.70
<b>TOTAL</b>	<b>2,018.50</b>	<b>1,964.50</b>	<b>27.60</b>	<b>401.50</b>	<b>4,412.10</b>

## DILLON COUNTY



Drop-off Recycling Centers: 15

Curbside Recycling Program: City of Dillon

**TABLE 6.22: Dillon County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	190.90	0.10	8.40	135.80	335.10
Paper	137.60	1,268.90	2.30	3,533.90	4,942.80
Plastic	4.00	1.50	0.40	70.10	75.90
Banned Items	420.40	182.80	0.20	63.70	667.10
Miscellaneous	1.30	0.00	1.80	413.90	417.00
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>754.20</b>	<b>1,453.30</b>	<b>13.20</b>	<b>4,217.40</b>	<b>6,438.00</b>

## DORCHESTER COUNTY



Drop-off Recycling Centers: 13

Curbside Recycling Programs: Municipalities of Harleyville, St. George and Summerville

**TABLE 6.23: Dorchester County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	334.00	0.00	0.20	0.00	334.10
Metal	1,251.60	105.70	20.80	9,175.90	10,554.00
Paper	1,808.50	3,354.30	20.60	307.50	5,491.00
Plastic	70.00	31.50	5.00	33.00	139.50
Banned Items	1,235.80	1,056.80	5.20	3.90	2,301.70
Miscellaneous	9,043.90	10.70	20.10	271.60	9,346.30
Mixed Recyclables	0.00	0.00	0.00	1.30	1.30
<b>TOTAL</b>	<b>13,743.80</b>	<b>4,558.90</b>	<b>71.90</b>	<b>9,793.20</b>	<b>28,167.80</b>

## EDGEFIELD COUNTY



Drop-off Recycling Centers: 8

Curbside Recycling Programs: Municipalities of Edgefield and Johnston

**TABLE 6.24: Edgefield County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	343.10	77.80	8.70	3.30	433.00
Paper	536.00	1,231.50	77.90	784.60	2,630.00
Plastic	28.30	22.80	2.40	0.00	53.60
Banned Items	254.20	191.20	25.90	0.00	471.30
Miscellaneous	4.70	84.10	13.80	0.80	103.40
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,166.40</b>	<b>1,607.40</b>	<b>128.70</b>	<b>788.70</b>	<b>3,691.20</b>

## FAIRFIELD COUNTY



Drop-off Recycling Centers: 10

Curbside Recycling Programs: 0

**TABLE 6.25: Fairfield County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	326.00	0.20	8.40	0.00	334.60
Paper	209.10	492.30	3.00	0.00	704.40
Plastic	31.60	4.60	0.40	0.00	36.60
Banned Items	827.20	127.30	2.80	0.00	957.30
Miscellaneous	3.70	0.00	1.80	0.00	5.50
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,397.60</b>	<b>624.40</b>	<b>16.50</b>	<b>0.00</b>	<b>2,038.50</b>

## FLORENCE COUNTY



Drop-off Recycling Centers: 15

Curbside Recycling Programs: Municipalities of Florence and Lake City

**TABLE 6.26: Florence County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	18.10	79.60	89.20	9,319.00	9,505.90
Paper	800.70	3,549.60	54.00	1.00	4,405.20
Plastic	78.70	20.20	2.70	0.00	101.60
Banned Items	8,034.40	823.30	5.20	0.00	8,862.90
Miscellaneous	4.10	1,840.90	10.40	0.30	1,855.60
Mixed Recyclables	806.20	0.00	0.00	0.00	806.20
<b>TOTAL</b>	<b>9,742.10</b>	<b>6,313.50</b>	<b>161.60</b>	<b>9,320.20</b>	<b>25,537.40</b>

## GEORGETOWN COUNTY



Drop-off Recycling Centers: 14

Curbside Recycling Programs: Municipalities of Andrews and Georgetown

**TABLE 6.27: Georgetown County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	140.00	0.00	0.20	0.00	140.20
Metal	568.60	0.60	465.80	0.00	1,034.90
Paper	1,102.00	1,260.00	83.70	0.00	2,445.70
Plastic	103.00	11.00	3.20	0.00	117.20
Banned Items	4,706.80	1,652.80	11.00	0.00	6,370.60
Miscellaneous	37.90	0.20	218.30	0.00	256.40
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>6,658.30</b>	<b>2,924.50</b>	<b>782.20</b>	<b>0.00</b>	<b>10,365.00</b>

## GREENVILLE COUNTY



Drop-off Recycling Centers: 26

Curbside Recycling Programs: Municipalities of Greenville, Greer, Mauldin and Travelers Rest as well as Greater Greenville Sanitation service area

**TABLE 6.28: Greenville County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	1,483.00	2,429.00	7.50	0.30	3,919.80
Metal	1,040.00	10,352.20	124.50	32,215.80	43,732.60
Paper	8,429.20	45,962.10	742.10	2,818.20	57,951.50
Plastic	1,313.10	3,160.50	10.00	526.20	5,009.90
Banned Items	68,862.50	5,678.70	425.70	30.50	74,997.40
Miscellaneous	187.60	591.60	139.40	2,246.20	3,164.80
Mixed Recyclables	104.00	0.00	0.00	0.00	104.00
<b>TOTAL</b>	<b>81,419.50</b>	<b>68,174.10</b>	<b>1,449.20</b>	<b>37,837.20</b>	<b>188,880.00</b>

## GREENWOOD COUNTY



Drop-off Recycling Centers: 9

Curbside Recycling Programs: Municipalities of Greenwood, Hodges, Ninety Six and Ware Shoals

**TABLE 6.29: Greenwood County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	116.70	0.00	0.20	0.00	116.90
Metal	664.60	120.20	35.60	5,969.20	6,789.60
Paper	1,937.30	1,862.20	217.90	2,200.00	6,217.40
Plastic	190.00	14.70	4.10	8.50	217.20
Banned Items	679.60	399.20	9.20	1.00	1,089.00
Miscellaneous	31.20	0.10	30.50	1,356.30	1,418.20
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>3,619.40</b>	<b>2,396.40</b>	<b>297.50</b>	<b>9,534.90</b>	<b>15,848.30</b>

## HAMPTON COUNTY



Drop-off Recycling Centers: 10  
Curbside Recycling Programs: 0

**TABLE 6.30: Hampton County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	149.70	9.80	8.40	0.00	167.90
Paper	106.70	451.50	2.30	0.00	560.60
Plastic	0.00	0.00	0.40	0.00	0.40
Banned Items	1,895.10	111.10	2.80	0.00	2,009.00
Miscellaneous	63.50	0.00	1.80	0.00	65.30
Mixed Recyclables	13.60	0.00	0.00	0.00	13.60
<b>TOTAL</b>	<b>2,228.50</b>	<b>572.50</b>	<b>15.80</b>	<b>0.00</b>	<b>2,816.80</b>

## HORRY COUNTY



Drop-off Recycling Centers: 29  
Curbside Recycling Programs: Municipalities of Briarcliffe Acres, Conway, Myrtle Beach, North Myrtle Beach and Surfside Beach

**TABLE 6.31: Horry County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	1,652.70	0.00	0.20	0.00	1,652.90
Metal	3,722.40	6,106.20	473.50	12.70	10,314.80
Paper	12,807.50	15,113.60	245.50	7.00	28,173.60
Plastic	790.40	101.40	21.20	0.00	913.00
Banned Items	38,031.20	3,303.10	12.90	31.30	41,378.50
Miscellaneous	341.50	1,320.50	234.10	156.90	2,052.90
Mixed Recyclables	0.00	218.20	0.00	0.00	218.20
<b>TOTAL</b>	<b>57,345.80</b>	<b>26,162.90</b>	<b>987.30</b>	<b>208.00</b>	<b>84,703.90</b>

## JASPER COUNTY



Drop-off Recycling Centers: 6  
Curbside Recycling Programs: Municipalities of Hardeeville and Ridgeland

**TABLE 6.32: Jasper County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	38.10	0.00	0.00	0.00	38.10
Metal	101.20	114.80	14.30	0.00	230.30
Paper	145.50	494.30	27.90	0.00	667.70
Plastic	16.90	4.80	2.60	0.00	24.30
Banned Items	176.20	181.60	3.90	0.00	361.70
Miscellaneous	25.40	14.60	6.20	0.00	46.20
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>503.30</b>	<b>810.10</b>	<b>54.90</b>	<b>0.00</b>	<b>1,368.30</b>

## KERSHAW COUNTY



Drop-off Recycling Centers: 10  
Curbside Recycling Program: City of Camden

**TABLE 6.33: Kershaw County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	84.90	0.00	0.20	0.00	85.10
Metal	414.20	0.10	17.90	0.30	432.40
Paper	136.00	6,021.90	29.20	628.10	6,815.20
Plastic	31.70	4.50	2.70	0.70	39.60
Banned Items	1,999.80	369.80	4.00	4.50	2,378.10
Miscellaneous	128.00	43.30	4.90	26.80	203.00
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>2,794.60</b>	<b>6,439.50</b>	<b>58.90</b>	<b>660.30</b>	<b>9,953.30</b>

## LANCASTER COUNTY



Drop-off Recycling Centers: 13  
Curbside Recycling Programs: 0

**TABLE 6.34: Lancaster County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	152.00	0.00	0.20	0.00	152.10
Metal	820.40	31.90	8.50	40.00	900.80
Paper	759.00	2,082.10	92.90	48.30	2,982.20
Plastic	208.60	13.00	0.40	15.00	236.90
Banned Items	1,244.40	461.80	2.80	0.00	1,709.00
Miscellaneous	9.70	1.50	1.90	0.00	13.10
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>3,194.10</b>	<b>2,590.30</b>	<b>106.50</b>	<b>103.30</b>	<b>5,994.20</b>

## LAURENS COUNTY



Drop-off Recycling Centers: 12  
Curbside Recycling Programs: 0

**TABLE 6.35: Laurens County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	13.20	0.00	0.20	0.00	13.40
Metal	37.00	16.20	8.50	4,924.80	4,986.50
Paper	420.00	2,522.90	16.20	275.00	3,234.10
Plastic	2.90	135.10	0.40	0.00	138.40
Banned Items	411.80	390.10	2.80	2.50	807.20
Miscellaneous	19.10	46.80	1.90	99.00	166.90
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>904.10</b>	<b>3,111.10</b>	<b>30.00</b>	<b>5,301.30</b>	<b>9,346.40</b>

## LEE COUNTY



Drop-off Recycling Centers: 10  
Curbside Recycling Programs: 0

**TABLE 6.36: Lee County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.20	0.00	0.20
Metal	265.30	0.00	14.60	0.00	279.90
Paper	20.30	403.00	11.70	0.00	435.00
Plastic	5.80	0.00	2.70	0.00	8.50
Banned Items	2,404.00	102.00	4.00	0.00	2,510.00
Miscellaneous	3.70	0.00	4.90	0.00	8.60
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>2,699.10</b>	<b>505.00</b>	<b>38.10</b>	<b>0.00</b>	<b>3,242.20</b>

## LEXINGTON COUNTY



Drop-off Recycling Centers: 11  
Curbside Recycling Programs: Municipalities of Batesburg-Leesville, Cayce, Irmo, Lexington, Springdale and West Columbia

**TABLE 6.37: Lexington County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	413.30	0.00	0.00	0.00	413.30
Metal	798.40	25,113.70	8.60	11.40	25,932.00
Paper	1,935.10	13,778.80	175.20	2,368.00	18,257.10
Plastic	240.10	29.00	4.90	858.50	1,132.50
Banned Items	3,478.10	8,244.70	2.70	21.40	11,746.90
Miscellaneous	147.70	1,555.40	79.80	779.80	2,562.80
Mixed Recyclables	3,882.90	485.50	1.60	196.80	4,566.80
<b>TOTAL</b>	<b>10,895.60</b>	<b>49,207.20</b>	<b>272.70</b>	<b>4,235.80</b>	<b>64,611.30</b>

## MARION COUNTY



Drop-off Recycling Centers: 5  
Curbside Recycling Programs: 0

**TABLE 6.38: Marion County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	0.00	3,755.00	8.00	0.00	3,763.00
Paper	16.60	685.30	2.10	0.00	704.00
Plastic	0.00	0.10	0.00	0.00	0.10
Banned Items	325.00	357.10	2.70	0.00	684.80
Miscellaneous	0.00	6.60	4.80	0.00	11.40
Mixed Recyclables	469.10	0.00	0.00	0.00	469.10
<b>TOTAL</b>	<b>810.70</b>	<b>4,804.10</b>	<b>17.60</b>	<b>0.00</b>	<b>5,632.40</b>

## MARLBORO COUNTY



Drop-off Recycling Centers: 5  
Curbside Recycling Programs: 0

**TABLE 6.39: Marlboro County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	925.50	105.00	14.20	685.80	1,730.50
Paper	0.00	673.00	11.00	7.00	691.00
Plastic	3.50	4.00	2.30	48.80	58.60
Banned Items	172.10	148.00	3.90	0.00	324.00
Miscellaneous	0.80	1.80	5.90	9.40	17.90
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,101.90</b>	<b>931.80</b>	<b>37.30</b>	<b>751.00</b>	<b>2,822.00</b>

## McCORMICK COUNTY



Drop-off Recycling Centers: 4  
Curbside Recycling Programs: 0

**TABLE 6.40: McCormick County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.50	0.00	0.50
Metal	225.50	0.00	62.60	0.00	288.10
Paper	153.00	570.40	36.60	11.00	771.00
Plastic	12.40	0.00	5.90	0.00	18.30
Banned Items	104.20	52.00	40.30	0.30	196.70
Miscellaneous	0.00	0.00	32.70	0.10	32.80
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>495.00</b>	<b>622.40</b>	<b>178.50</b>	<b>11.40</b>	<b>1,307.30</b>

## NEWBERRY COUNTY



Drop-off Recycling Centers: 12  
Curbside Recycling Programs: 0

**TABLE 6.41: Newberry County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	15.00	0.00	0.20	0.00	15.20
Metal	55.60	0.10	9.00	116.20	180.80
Paper	593.20	1,589.20	6.30	287.60	2,476.20
Plastic	6.70	5.10	0.80	27.90	40.40
Banned Items	3,602.00	247.50	2.80	0.00	3,852.30
Miscellaneous	25.10	34.60	1.80	893.90	955.40
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>4,297.50</b>	<b>1,876.40</b>	<b>20.70</b>	<b>1,325.60</b>	<b>7,520.20</b>

## OCONEE COUNTY



Drop-off Recycling Centers: 18

Curbside Recycling Programs: Municipalities of Seneca and Walhalla

**TABLE 6.42: Oconee County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	335.60	0.00	0.50	0.10	336.10
Metal	132.00	141.60	12.00	615.60	901.20
Paper	1,462.80	5,126.60	306.60	1,032.80	7,928.80
Plastic	46.20	216.50	1.10	4.70	268.40
Banned Items	6,356.90	735.80	28.40	2.30	7,123.40
Miscellaneous	13.30	207.90	35.40	1,064.70	1,321.30
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>8,346.70</b>	<b>6,428.50</b>	<b>384.00</b>	<b>2,720.10</b>	<b>17,879.30</b>

## ORANGEBURG COUNTY



Drop-off Recycling Centers: 21

Curbside Recycling Program: City of Orangeburg

**TABLE 6.43: Orangeburg County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	19.30	0.00	0.20	0.00	19.50
Metal	423.10	0.60	8.40	6,627.00	7,059.00
Paper	499.10	3,541.20	15.80	1,656.50	5,712.60
Plastic	17.70	13.80	0.40	34.10	65.90
Banned Items	1,009.90	551.70	2.80	0.00	1,564.40
Miscellaneous	9.40	107.20	15.80	36.50	168.90
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>1,978.50</b>	<b>4,214.50</b>	<b>43.30</b>	<b>8,354.00</b>	<b>14,590.20</b>

## PICKENS COUNTY



Drop-off Recycling Centers: 37

Curbside Recycling Programs: Municipalities of Central, Clemson, Easley, Liberty, Norris, Pickens and Six Mile

**TABLE 6.44: Pickens County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	459.80	24.40	36.90	0.30	521.40
Metal	238.10	418.80	159.30	0.30	816.50
Paper	3,230.90	13,519.30	556.40	475.60	17,782.30
Plastic	355.00	39.00	19.20	2.50	415.70
Banned Items	4,055.00	2,440.90	477.80	0.00	6,973.60
Miscellaneous	297.00	619.30	170.40	136.50	1,223.20
Mixed Recyclables	0.00	0.00	0.00	21.50	21.50
<b>TOTAL</b>	<b>8,635.80</b>	<b>17,061.70</b>	<b>1,420.00</b>	<b>636.60</b>	<b>27,754.10</b>

## RICHLAND COUNTY



Drop-off Recycling Centers: 8  
Curbside Recycling Program: Countywide

**TABLE 6.45: Richland County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	1,419.50	0.00	3.50	0.00	1,422.90
Metal	909.60	1.00	749.30	25,968.70	27,628.70
Paper	4,053.80	16,040.70	3,179.30	36.90	23,310.70
Plastic	559.40	101.40	65.60	0.20	726.60
Banned Items	3,874.80	3,899.90	32.60	0.00	7,807.30
Miscellaneous	270.30	198.70	405.70	8.50	883.20
Mixed Recyclables	7,131.00	32.50	825.30	0.00	7,988.70
<b>TOTAL</b>	<b>18,218.40</b>	<b>20,274.10</b>	<b>5,261.30</b>	<b>26,014.30</b>	<b>69,768.00</b>

## SALUDA COUNTY



Drop-off Recycling Centers: 7  
Curbside Recycling Program: Town of Saluda

**TABLE 6.46: Saluda County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	367.30	100.10	8.00	0.90	476.20
Paper	254.90	657.50	35.90	63.40	1,011.80
Plastic	21.30	0.00	2.00	0.00	23.30
Banned Items	224.50	129.30	3.20	0.00	356.90
Miscellaneous	0.00	6.00	3.80	411.00	420.90
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>867.90</b>	<b>892.90</b>	<b>52.90</b>	<b>475.30</b>	<b>2,289.00</b>

## SPARTANBURG COUNTY



Drop-off Centers: 22  
Curbside Recycling Programs: Municipalities of Greer, Lyman and Spartanburg

**TABLE 6.47: Spartanburg County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	81.70	0.00	0.20	2.00	83.90
Metal	1,085.80	2.30	21.00	20,782.10	21,891.20
Paper	4,303.30	22,969.60	106.10	1,002.60	28,381.60
Plastic	54.80	1,531.10	5.60	269.30	1,860.80
Banned Items	14,725.80	1,753.30	50.60	12.40	16,542.10
Miscellaneous	54.20	237.30	61.20	1,762.50	2,115.10
Mixed Recyclables	1,934.10	0.00	0.00	27.00	1,961.10
<b>TOTAL</b>	<b>22,239.60</b>	<b>26,493.60</b>	<b>244.50</b>	<b>23,857.80</b>	<b>72,835.60</b>

## SUMTER COUNTY



Drop-off Recycling Centers: 10

Curbside Recycling Program: City of Sumter

**TABLE 6.48: Sumter County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	334.60	0.00	0.20	0.00	334.80
Metal	2,805.30	3.20	64.50	0.20	2,873.20
Paper	2,587.40	2,172.50	42.70	2.00	4,804.60
Plastic	359.00	25.40	3.40	0.10	387.90
Banned Items	6,455.10	614.90	4.00	0.00	7,074.00
Miscellaneous	161.10	19.40	21.60	0.00	202.60
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>12,702.50</b>	<b>2,835.80</b>	<b>136.50</b>	<b>2.30</b>	<b>15,677.10</b>

## UNION COUNTY



Drop-off Recycling Centers: 11

Curbside Recycling Program: 0

**TABLE 6.49: Union County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	17.60	0.00	0.20	0.00	17.80
Metal	164.00	0.00	8.40	5.00	177.50
Paper	377.10	1,322.10	3.30	28.50	1,731.00
Plastic	16.70	4.60	0.40	0.00	21.70
Banned Items	313.40	156.10	2.80	0.00	472.20
Miscellaneous	1.00	0.00	2.90	57.10	61.00
Mixed Recyclables	0.00	0.00	0.00	0.00	0.00
<b>TOTAL</b>	<b>889.80</b>	<b>1,482.80</b>	<b>17.90</b>	<b>90.60</b>	<b>2,481.20</b>

## WILLIAMSBURG COUNTY



Drop-off Recycling Centers: 20

Curbside Recycling Programs: Municipalities of Hemingway and Kingstree

**TABLE 6.50: Williamsburg County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	0.00	0.00	0.00	0.00	0.00
Metal	155.10	218.10	8.00	202.30	583.40
Paper	210.90	1,176.90	43.10	140.90	1,571.80
Plastic	0.00	7.00	0.00	0.00	7.00
Banned Items	562.30	185.60	2.60	0.00	750.60
Miscellaneous	5.00	44.40	26.90	24.20	100.50
Mixed Recyclables	0.00	321.50	0.00	0.00	321.50
<b>TOTAL</b>	<b>933.30</b>	<b>1,953.50</b>	<b>80.60</b>	<b>367.40</b>	<b>3,334.80</b>

## YORK COUNTY



Drop-off Recycling Centers: 25

Curbside Recycling Programs: Municipalities of Clover, Fort Mill, Rock Hill, Tega Cay and York

**TABLE 6.51: York County MSW Recycling Data in Tons**

COMMODITY	RESIDENTIAL	COMMERCIAL	INSTITUTIONAL/ NONPROFIT	INDUSTRIAL PACKAGING	TOTAL
Glass	816.10	3.00	1.10	4.00	824.10
Metal	2,112.40	14.70	41.00	58,679.90	60,848.00
Paper	5,726.00	5,878.10	210.90	17,159.80	28,974.80
Plastic	406.60	60.00	42.00	506.60	1,015.30
Banned Items	13,591.70	2,203.90	396.40	76.40	16,268.50
Miscellaneous	575.80	361.90	2,111.40	1,839.10	4,888.10
Mixed Recyclables	906.90	764.00	0.00	30.70	1,701.60
<b>TOTAL</b>	<b>24,135.50</b>	<b>9,285.60</b>	<b>2,802.80</b>	<b>78,296.60</b>	<b>114,520.40</b>



# DISPOSAL DATA

This section focuses on disposal for both municipal solid waste (MSW) and total solid waste (TSW). It provides local governments specific information to develop solid waste management plans.

South Carolinians disposed of 3,113,365 million tons of MSW in fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010) – a decrease of about 113,000 tons or 4 percent from the previous FY's total of 3,226,412 tons. Each resident disposed of about 3.7 pounds per person per day (p/p/d) of MSW. This amount is about 5 percent less than the previous FY and is more than the state's disposal goal of 3.5 p/p/d.

Disposal figures are reported annually to the S.C. Department of Health and Environmental Control (DHEC) by permitted solid waste facilities whether publicly or privately owned. In FY10, there were 388 permitted solid waste facilities in South Carolina. Of the 16 types of facilities, only three accept MSW: MSW transfer stations; MSW incinerators; and Class 3 landfills.

There were 37 permitted solid waste transfer stations in FY10. Of those, 29 reported accepting MSW. A

transfer station, as defined by the S.C. Solid Waste Policy and Management Act of 1991 (Act), is a combination of structures, machinery or devices at a facility where solid waste is taken from collection vehicles and placed in other transportation units, with or without reduction in volume, for movement to another solid waste facility.

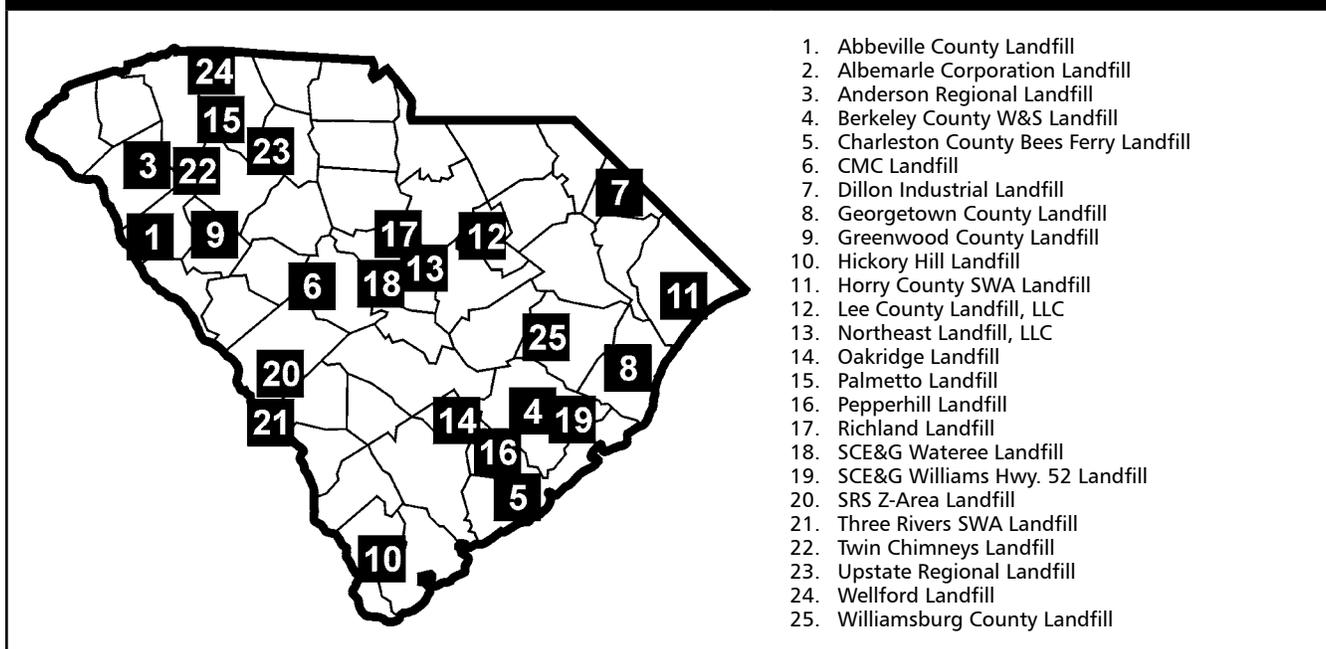
There was one MSW incinerator – Montenay Charleston Resource Recovery – operating in FY10. At that facility, 69,215 tons of MSW was burned for energy recovery generating 22,304 tons of ash. The

In general, there are three classifications for landfills in South Carolina:

- Class 1 landfills accept land-clearing debris;
- Class 2 landfills accept construction and demolition debris; and
- Class 3 landfills accept household garbage – or MSW.

For a detailed definition of landfill classifications and what is accepted, visit [www.scdhec.gov/environment/lwm/html/solidwaste.htm](http://www.scdhec.gov/environment/lwm/html/solidwaste.htm).

**CHART 7.1: Class 3 Landfills**



ash was disposed of at Charleston County Bees Ferry Class 3 Landfill. The incinerator closed in December 2009.

There were 25 permitted Class 3 landfills operating in FY10 (with 11 owned by local governments and 14 privately owned). Class 3 landfills, by law, must meet minimum criteria for siting, design, construction, operation and post-closure. All new Class 3 landfills and expansions to current landfills must comply with the federal Resource Conservation Recovery Act (RCRA) Subtitle D requirements. One of the Class 3 landfills (Williamsburg County Landfill) continues to operate under a DHEC consent agreement. The consent agreement provides for a phased closure of the landfill. It is important to note that Class 3

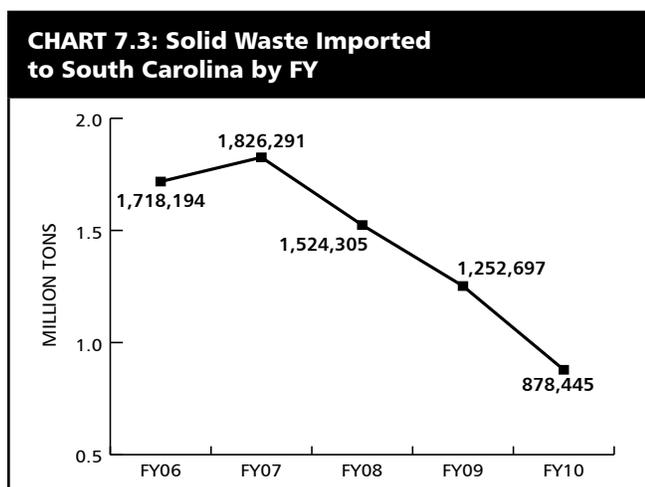
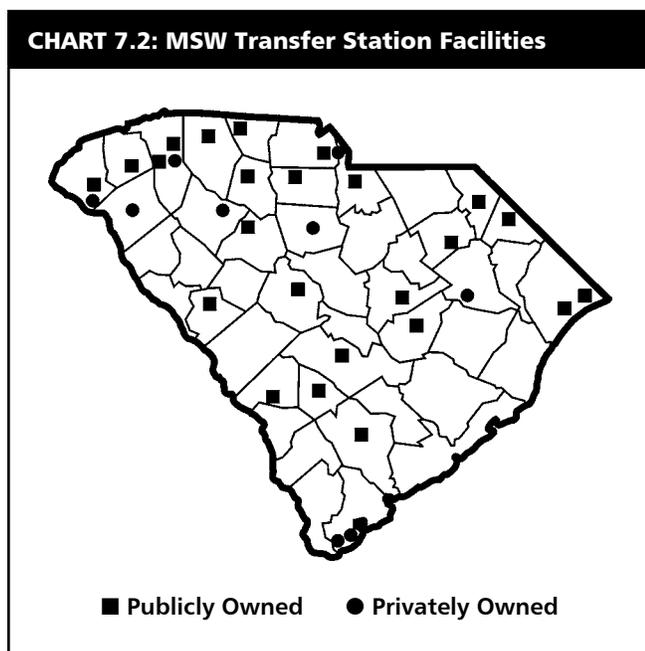
landfills accept waste other than MSW including construction and demolition (C&D) debris, industrial solid waste (ISW) and imported solid waste. The total amount of solid waste going into Class 3 landfills dropped about 268,000 tons, to about 5.2 million tons in FY10 – a level not seen since FY03.

The majority of South Carolina’s solid waste was disposed of in privately owned Class 3 landfills. In FY10, 3.7 million tons of solid waste was reported as being disposed of in the 14 privately owned Class 3 landfills. Five of them (Lee County Landfill, Oakridge Landfill, Palmetto Landfill, Richland Landfill and Upstate Regional Landfill) accepted 62 percent of the solid waste that was disposed of in the state’s Class 3 landfills. About 1.47 million tons of solid waste was disposed of in the state’s publicly owned Class 3 landfills in FY10 – a slight increase from FY09. See Tables 7.7 through 7.10 for an overview of disposal data.

In FY10, there were 57 Class 1 landfills and 93 Class 2 landfills. There were decreases in the amount of material being disposed of at Class 1 and Class 2 landfills. See Tables 7.13 and 7.14 for details.

Tipping fees – the amount charged to dispose of solid waste at a landfill – were taken from landfill reports submitted to DHEC. While tipping fee data is incomplete (only a portion of the facilities reported tipping fees), the average Class 3 landfill tipping fee was \$37 per ton in FY10. In addition, the average tipping fee for Class 2 disposal was \$25.

Finally, Tables 7.11 and 7.12 provides generation data for MSW and TSW in tons by county. This data is calculated by adding the totals for recycling and disposal.



### Import and Export of Solid Waste

The movement of solid waste between states is a common practice and a controversial issue. As a result, there have been numerous court cases dealing with this subject.

Several rulings limit states from restricting the interstate movement of solid waste. This subsection provides a brief overview of the import and export of solid waste in South Carolina.

The amount of out-of-state solid waste disposed of in South Carolina’s landfills in FY10 was 878,445 tons – a drop of 30 percent from the previous FY. Overall, this represents about 10 percent of the total amount of solid waste disposed of in the state.

In FY10, the vast majority of out-of-state solid waste was disposed of in two privately owned Class 3 landfills – Lee County Landfill and Palmetto Landfill. (See Table 7.4.)

In FY10, five states sent solid waste to South Carolina. New York and North Carolina combined for

90 percent (about 789,000 tons) of the total amount. (See Table 7.4 and Chart 7.6.)

South Carolina also exports solid waste. Six counties – Anderson, Chester, Lancaster, Oconee, Pickens and York – sent 127,563 tons of solid waste to Georgia and North Carolina landfills in FY10. (See Chart 7.5.)

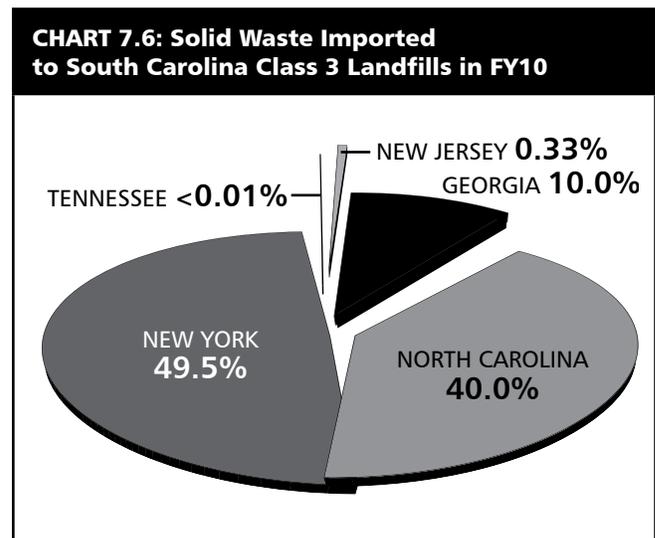
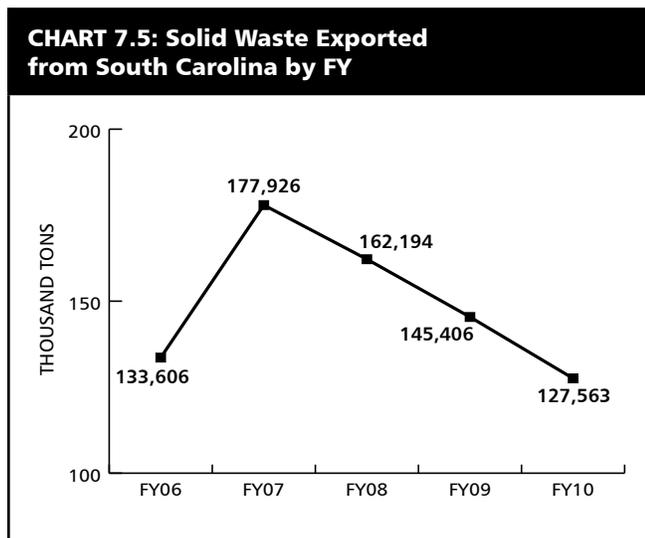
**TABLE 7.4: Solid Waste Imported to South Carolina in Tons in FY10\***

ORIGIN	DILLON INDUSTRIAL LANDFILL Dillon County	HICKORY HILL LANDFILL Jasper County	LEE COUNTY LANDFILL, LLC	NORTHEAST LANDFILL Richland County	OAKRIDGE LANDFILL Dorchester County	PALMETTO LANDFILL Spartanburg County	RICHLAND LANDFILL Richland County	THREE RIVERS SWA** LANDFILL Aiken County	UPSTATE REGIONAL LANDFILL Union County	TOTAL IMPORTED SOLID WASTE DISPOSED OF IN S.C. LANDFILLS
Georgia	0	18,835	0	0	47	8	3,841	16,260	708	39,699
New Jersey	0	0	2,881	0	0	0	0	0	0	2,881
New York	0	0	434,020	0	0	0	0	0	0	434,020
North Carolina	2	0	8,853	615	276	200,658	47,340	0	67,568	325,312
Tennessee	0	0	0	0	0	66	0	0	0	66
Misc.***	0	0	0	0	0	0	0	0	0	76,469
<b>TOTAL WASTE FROM OUT OF STATE</b>	<b>2</b>	<b>18,835</b>	<b>445,754</b>	<b>615</b>	<b>323</b>	<b>200,732</b>	<b>51,181</b>	<b>16,260</b>	<b>68,276</b>	<b>878,445</b>

\* Some totals may not add up due to rounding.

\*\* Solid Waste Authority

\*\*\* This represents solid waste imported from Georgia (46,344 tons) and North Carolina (30,126 tons) and disposed of in Class 1 and Class 2 landfills.



**TABLE 7.7: Class 3 Remaining Capacity & Disposal in Tons**

NAME OF CLASS 3 LANDFILL	COUNTY	PERMITTED ANNUAL RATE OF DISPOSAL	FY10 DISPOSAL	ESTIMATED REMAINING CAPACITY OF FACILITY	ESTIMATED REMAINING LIFE OF FACILITY BASED ON PERMITTED DISPOSAL RATE IN YEARS	ESTIMATED REMAINING LIFE OF FACILITY BASED ON CURRENT DISPOSAL RATE IN YEARS
Abbeville County Landfill	Abbeville	46,000	12,936	1,296,854	28.2	100.3
Albemarle Corp.	Orangeburg	N/A	25,062	235,546	N/A	9.4
Anderson Regional Landfill	Anderson	438,000	166,751	6,632,595	15.1	39.8
Berkeley County W&S Landfill	Berkeley	1,000,000	187,589	4,656,088	4.7	24.8
Charleston County Bees Ferry Landfill	Charleston	180,000	158,095	5,679,786	31.6	35.9
CMC	Lexington	150,000	82,489	1,767,841	11.8	21.4
Dillon Industrial Landfill	Dillon	34,000	1,618	N/A	N/A	N/A
Georgetown County Landfill	Georgetown	79,582	45,950	1,383,009	17.4	30.1
Greenwood County Landfill	Greenwood	150,000	84,608	2,097,295	14.0	24.8
Hickory Hill Landfill	Jasper	302,000	194,789	1,610,595	5.3	8.3
Horry County SWA Landfill	Horry	300,000	228,611	2,272,556	7.6	9.9
Lee County Landfill, LLC	Lee	1,944,939	646,908	18,976,505	9.8	29.3
Northeast Landfill, LLC	Richland	529,600	175,504	5,643,084	10.7	32.2
Oakridge Landfill	Dorchester	1,144,000	564,378	6,131,072	5.4	10.9
Palmetto Landfill	Spartanburg	1,200,000	389,940	1,008,703	0.8	2.6
Pepperhill Landfill	Dorchester	214,500	109	250,996	1.2	2,306.9
Richland Landfill	Richland	988,209	956,061	33,976,453	34.4	35.5
SCE&G – Wateree	Richland	N/A	14,907	N/A	N/A	N/A
SCE&G – Williams Hwy. 52	Berkeley	N/A	0	N/A	N/A	N/A
SRS-Z Area	Aiken	N/A	12,859	N/A	N/A	N/A
Three Rivers SWA Landfill	Aiken	500,000	249,744	22,645,511	45.3	90.7
Twin Chimneys Landfill	Greenville	500,000	208,789	27,876,626	55.8	133.5
Upstate Regional Landfill	Union	910,000	669,121	5,678,503	6.2	8.5
Wellford Landfill	Spartanburg	260,000	114,830	1,115,170	4.3	9.7
Williamsburg County Landfill	Williamsburg	35,000	16,104	11,825	0.3	0.7
<b>STATE TOTALS</b>	—	<b>10,905,830</b>	<b>5,207,750</b>	<b>150,946,613</b>	<b>13.8</b>	<b>29.0</b>

**TABLE 7.8: Class 3 Landfill\* Disposal Trends in Tons, FY06 to FY10**

CLASS 3 LANDFILL	COUNTY	FY06	FY07	FY08	FY09	FY10
Abbeville County Landfill	Abbeville	19,004	21,343	19,704	15,083	12,936
Albemarle Corp.	Orangeburg	N/A	N/A	N/A	N/A	25,062
Anderson Regional Landfill	Anderson	355,000	344,232	372,568	236,757	166,751
Berkeley County W&S Landfill	Berkeley	227,216	232,545	217,064	196,573	187,589
Charleston County Bees Ferry Landfill	Charleston	91,647	125,318	143,232	147,479	158,095
CMC	Lexington	N/A	N/A	N/A	116,706	82,489
Dillon Industrial Landfill	Dillon	N/A	N/A	N/A	855	1,618
Georgetown County Landfill	Georgetown	53,036	49,718	36,645	41,822	45,950
Greenwood County Landfill	Greenwood	84,247	85,330	82,198	79,554	84,608
Hickory Hill Landfill	Jasper	253,095	235,296	226,493	232,689	194,789
Horry County SWA Landfill	Horry	237,116	245,527	247,609	233,958	228,611
Lee County Landfill, LLC	Lee	1,410,054	1,530,801	1,512,604	1,141,707	646,908
Northeast Landfill, LLC	Richland	75,229	35,609	31,933	117,045	175,504
Oakridge Landfill	Dorchester	498,254	748,702	596,723	470,784	564,378
Palmetto Landfill	Spartanburg	1,082,547	820,700	568,712	474,882	389,940
Pepperhill Landfill	Dorchester	N/A	N/A	N/A	16,541	109
Richland Landfill	Richland	680,591	799,602	841,336	823,346	956,061
SCE&G – Wateree	Richland	N/A	N/A	N/A	N/A	14,907
SCE&G – Williams Hwy. 52	Berkeley	N/A	N/A	N/A	N/A	0
SRS-Z Area	Aiken	N/A	N/A	N/A	14,600	12,859
Three Rivers SWA Landfill	Aiken	234,804	269,341	280,860	262,294	249,744
Twin Chimneys Landfill	Greenville	N/A	77,135	205,796	199,473	208,789
Upstate Regional Landfill	Union	449,873	484,139	465,876	512,357	669,121
Wellford Landfill	Spartanburg	93,603	110,574	108,055	121,394	114,830
Williamsburg County Landfill	Williamsburg	19,160	18,398	16,760	19,411	16,104

NOTE: This table only includes Class 3 landfills that were active in FY10.

**TABLE 7.9: Disposal at Class 3 Landfills by County or State of Origin in Tons**

COUNTY OR STATE OF ORIGIN	ABBEVILLE COUNTY LANDFILL	ALBEMARLE CORPORATION LANDFILL	ANDERSON REGIONAL LANDFILL	BERKELEY COUNTY W&S LANDFILL	CHARLESTON COUNTY BEES FERRY LANDFILL	CMC LANDFILL	DILLON INDUSTRIAL LANDFILL	GEORGETOWN COUNTY LANDFILL	GREENWOOD COUNTY LANDFILL	HICKORY HILL LANDFILL	HORRY COUNTY SWA LANDFILL	LEE COUNTY LANDFILL, LLC	NORTHEAST LANDFILL, LLC
Abbeville	12,245	0	0	0	0	0	0	0	0	0	0	0	0
Aiken	0	0	0	0	0	0	0	0	0	0	0	0	0
Allendale	0	0	0	0	0	0	0	0	0	15	0	0	0
Anderson	361	0	73,930	0	0	0	0	0	0	0	0	0	0
Bamberg	0	0	0	0	0	0	0	0	0	0	0	0	0
Barnwell	0	0	0	0	0	0	0	0	0	1	0	0	0
Beaufort	0	0	0	20	0	0	0	0	0	148,440	0	0	0
Berkeley	0	0	0	185,549	0	0	0	0	0	2	0	198	0
Calhoun	0	0	0	0	0	0	0	0	0	0	0	0	8,082
Charleston	0	0	0	1,957	158,095	0	0	0	0	0	0	38	0
Cherokee	0	0	0	0	0	0	0	0	0	0	0	0	0
Chester	0	0	0	0	0	0	0	0	0	0	0	0	128
Chesterfield	0	0	0	0	0	0	0	0	0	0	0	12,363	0
Clarendon	0	0	0	0	0	0	0	0	0	0	0	1,811	0
Colleton	0	0	0	7	0	0	0	0	0	4	0	153	0
Darlington	0	0	0	0	0	0	0	0	0	0	0	36,422	0
Dillon	0	0	0	0	0	0	767	0	0	0	0	22,161	0
Dorchester	0	0	0	38	0	0	0	0	0	0	0	0	0
Edgefield	1	0	0	0	0	0	0	0	0	0	0	0	8
Fairfield	0	0	0	0	0	0	0	0	0	0	0	0	4,575
Florence	0	0	0	0	0	0	0	0	0	0	0	35,335	0
Georgetown	0	0	0	0	0	0	0	45,938	0	0	104	0	0
Greenville	272	0	65,965	0	0	0	0	0	0	0	0	0	0
Greenwood	0	0	0	0	0	0	0	0	84,608	0	0	0	0
Hampton	0	0	0	0	0	0	0	0	0	8,562	0	0	0
Horry	0	0	0	0	0	0	0	11	0	0	228,507	0	0
Jasper	0	0	0	0	0	0	0	0	0	18,928	0	0	0
Kershaw	0	0	0	0	0	0	0	0	0	0	0	10,727	2,138
Lancaster	0	0	0	0	0	0	0	0	0	0	0	24,075	85
Laurens	0	0	0	0	0	0	0	0	0	0	0	0	0
Lee	0	0	0	0	0	0	0	0	0	0	0	12,176	0
Lexington	0	0	0	14	0	82,489	0	0	0	2	0	8	37,864
Marion	0	0	0	0	0	0	55	0	0	0	0	1,943	0
Marlboro	0	0	0	0	0	0	795	0	0	0	0	12,997	0
McCormick	57	0	73	0	0	0	0	0	0	0	0	0	0
Newberry	0	0	0	0	0	0	0	0	0	0	0	0	12,545
Oconee	0	0	2,274	0	0	0	0	0	0	0	0	0	0
Orangeburg	0	25,062	0	5	0	0	0	0	0	0	0	0	2,698
Pickens	0	0	2,339	0	0	0	0	0	0	0	0	0	0
Richland	0	0	0	0	0	0	0	0	0	0	0	0	106,097
Saluda	0	0	0	0	0	0	0	0	0	0	0	0	0
Spartanburg	0	0	20,107	0	0	0	0	0	0	0	0	0	0
Sumter	0	0	0	0	0	0	0	0	0	0	0	12,641	226
Union	0	0	2,062	0	0	0	0	0	0	0	0	0	0
Williamsburg	0	0	0	0	0	0	0	0	0	0	0	18,108	0
York	0	0	0	0	0	0	0	0	0	0	0	0	444
Total S.C. Waste	12,936	25,062	166,751	187,589	158,095	82,489	1,616	45,950	84,608	175,954	228,611	201,155	174,889
Georgia	0	0	0	0	0	0	0	0	0	18,835	0	0	0
New Jersey	0	0	0	0	0	0	0	0	0	0	0	2,881	0
New York	0	0	0	0	0	0	0	0	0	0	0	434,020	0
North Carolina	0	0	0	0	0	0	2	0	0	0	0	8,853	615
Tennessee	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Waste from Out of State	0	0	0	0	0	0	0	0	0	18,835	0	445,754	615
Total Disposed Of at Facility	12,936	25,062	166,751	187,589	158,095	82,489	1,618	45,950	84,608	194,789	228,611	646,908	175,504

OAKRIDGE LANDFILL	PALMETTO LANDFILL	PEPPERHILL LANDFILL	RICHLAND LANDFILL	SCE&G WATEREE STATION	SCE&G WILLIAMS STATION - HWY. 52	SRS Z-AREA LANDFILL	THREE RIVERS SWA LANDFILL	TWIN CHIMNEYS LANDFILL	UPSTATE REGIONAL LANDFILL	WELLFORD LANDFILL	WILLIAMSBURG COUNTY LANDFILL	TOTAL AMOUNT OF SOLID WASTE DISPOSED OF IN CLASS 3 LANDFILLS	S.C. SOLID WASTE EXPORTED FOR DISPOSAL OUT OF STATE
0	0	0	67	0	0	0	0	329	1,233	0	0	13,874	0
0	0	0	265	0	0	12,859	114,268	0	23	0	0	127,415	0
0	0	0	0	0	0	0	6,507	0	0	0	0	6,522	0
0	2,275	0	2	0	0	0	0	2,071	38,644	0	0	117,283	13,672
89	0	0	27	0	0	0	9,346	0	0	0	0	9,461	0
0	0	0	219	0	0	0	15,533	0	0	0	0	15,753	0
0	0	0	10	0	0	0	0	0	0	0	0	148,470	0
139,043	0	0	2	0	0	0	0	0	0	0	0	324,793	0
0	0	0	9,753	0	0	0	5,222	0	5	0	0	23,062	0
165,799	0	109	0	0	0	0	0	0	0	0	0	325,997	0
0	1,393	0	7	0	0	0	0	27	84,341	0	0	85,767	0
0	0	0	23,914	0	0	0	0	0	716	0	0	24,758	1,539
0	0	0	5,972	0	0	0	0	0	0	0	0	18,335	0
9,366	0	0	4,467	0	0	0	0	0	0	0	0	15,644	0
99,972	0	0	0	0	0	0	0	0	0	0	0	100,137	0
0	0	0	2,039	0	0	0	0	0	0	0	0	38,461	0
0	0	0	1,393	0	0	0	0	0	0	0	0	24,321	0
98,733	0	0	2	0	0	0	0	0	0	0	0	98,774	0
0	0	0	0	0	0	0	12,944	148	18	0	0	13,119	0
0	0	0	16,639	0	0	0	0	0	0	0	0	21,214	0
1	0	0	97,246	0	0	0	0	0	0	0	0	132,582	0
2,401	0	0	3	0	0	0	0	0	0	0	0	48,446	0
0	49,953	0	0	0	0	0	0	191,416	143,739	0	0	451,344	0
0	818	0	5	0	0	0	0	9,066	4,466	0	0	98,963	0
4,618	0	0	0	0	0	0	0	0	0	0	0	13,179	0
273	0	0	51	0	0	0	0	0	0	0	0	228,843	0
0	0	0	0	0	0	0	0	0	0	0	0	18,928	0
0	0	0	30,826	0	0	0	0	0	0	0	0	43,691	0
0	0	0	190	0	0	0	0	0	205	0	0	24,555	3,952
0	436	0	8	0	0	0	0	786	44,356	0	0	45,586	0
0	0	0	59,789	0	0	0	0	0	0	0	0	71,965	0
48	79	0	130,105	0	0	0	0	0	1,700	0	0	252,309	0
0	0	0	16,735	0	0	0	0	0	0	0	0	18,733	0
0	0	0	1,121	0	0	0	0	0	0	0	0	14,913	0
0	0	0	10	0	0	0	3,612	738	629	0	0	5,120	0
0	0	0	1,076	0	0	0	0	0	27,452	0	0	41,072	0
0	3,271	0	0	0	0	0	0	2	5,692	0	0	11,240	40,029
10,961	0	0	667	0	0	0	56,118	0	0	0	0	95,510	0
0	2,691	0	25	0	0	0	0	55	2,133	0	0	7,242	45,014
0	15	0	351,092	14,907	0	0	0	0	0	0	0	472,111	0
0	2,547	0	2	0	0	0	9,934	0	190	0	0	12,673	0
1	114,478	0	62	0	0	0	0	4,151	223,181	114,830	0	476,809	0
32,681	0	0	41,277	0	0	0	0	0	0	0	0	86,824	0
0	155	0	2	0	0	0	0	0	18,115	0	0	20,335	0
70	0	0	0	0	0	0	0	0	0	0	16,104	34,282	0
0	11,099	0	109,812	0	0	0	0	0	4,007	0	0	125,361	23,356
564,055	189,208	109	904,880	14,907	0	12,859	233,484	208,789	600,845	114,830	16,104	4,405,774	127,563
47	8	0	3,841	0	0	0	16,260	0	708	0	0	39,699	—
0	0	0	0	0	0	0	0	0	0	0	0	2,881	—
0	0	0	0	0	0	0	0	0	0	0	0	434,020	—
276	200,658	0	47,340	0	0	0	0	0	67,568	0	0	325,312	—
0	66	0	0	0	0	0	0	0	0	0	0	66	—
323	200,732	0	51,181	0	0	0	16,260	0	68,276	0	0	801,977	—
564,378	389,940	109	956,061	14,907	0	12,859	249,744	208,789	669,121	114,830	16,104	5,207,751	—

**TABLE 7.10: Class 3 Landfills, MSW Incinerator and Exported in Tons (by Type of Waste)**

COUNTY	MSW DISPOSED OF IN CLASS 3 LANDFILLS, INCINERATED & EXPORTED FOR DISPOSAL	ASH	C&D DEBRIS (DISPOSED OF + INCINERATED)	INDUSTRIAL PROCESS WASTE	PROCESSED WASTE TIRES	NATURAL DISASTER DEBRIS	OTHER	TSW DISPOSED OF IN CLASS 3 LANDFILLS, INCINERATED & EXPORTED FOR DISPOSAL
Abbeville	10,595	0	22	3,205	0	0	53	13,874
Aiken	97,343	0	1	16,947	0	0	13,124	127,415
Allendale	4,329	0	1	2,189	0	0	2	6,522
Anderson	119,949	0	448	5,928	0	0	4,630	130,955
Bamberg	9,346	0	0	78	0	0	37	9,461
Barnwell	15,502	0	1	250	0	0	0	15,753
Beaufort	127,930	0	5,173	10	0	0	15,358	148,470
Berkeley	111,990	0	22,516	150,910	0	0	39,376	324,793
Calhoun	16,436	650	27	4,373	0	0	1,576	23,062
Charleston	284,718	22,304	20,842	56,967	0	0	10,382	395,213
Cherokee	54,908	0	20	30,796	0	0	43	85,767
Chester	18,194	192	3	3,372	0	0	4,536	26,297
Chesterfield	15,707	396	0	2,229	0	0	3	18,335
Clarendon	14,387	0	7	67	0	0	1,182	15,644
Colleton	20,730	72	2,066	11,952	0	0	65,317	100,137
Darlington	33,911	0	17	3,402	0	0	1,131	38,461
Dillon	22,687	0	0	1,541	0	0	93	24,321
Dorchester	71,941	0	15,186	11,357	0	0	289	98,774
Edgefield	13,097	0	0	14	8	0	0	13,119
Fairfield	20,935	0	10	121	0	0	148	21,214
Florence	102,626	0	14	18,828	0	0	11,115	132,582
Georgetown	38,279	0	0	2,393	0	0	7,774	48,446
Greenville	319,684	77	6,343	116,454	0	0	8,787	451,344
Greenwood	60,847	0	9,159	1,100	10,111	0	17,745	98,963
Hampton	12,347	0	8	0	0	0	824	13,179
Horry	228,528	0	0	0	0	0	315	228,843
Jasper	15,432	94	475	0	0	0	3,155	19,155
Kershaw	28,406	6,171	711	8,133	0	0	271	43,691
Lancaster	27,612	31	4	678	0	0	182	28,506

COUNTY	MSW DISPOSED OF IN CLASS 3 OF IN CLASS 3 LANDFILLS, INCINERATED & EXPORTED FOR DISPOSAL	ASH	C&D DEBRIS (DISPOSED OF + INCINERATED)	INDUSTRIAL PROCESS WASTE	PROCESSED WASTE TIRES	NATURAL DISASTER DEBRIS	OTHER	TSW DISPOSED OF IN CLASS 3 LANDFILLS, INCINERATED & EXPORTED FOR DISPOSAL
Laurens	41,628	0	651	3,300	0	0	8	45,586
Lee	9,409	19	109	62,245	0	0	184	71,965
Lexington	141,796	0	496	106,307	0	0	3,710	252,309
Marion	16,991	0	0	1,740	0	0	2	18,733
Marlboro	13,437	0	0	756	0	0	720	14,913
McCormick	4,589	0	15	505	0	0	10	5,120
Newberry	35,050	0	13	5,919	0	0	90	41,072
Oconee	45,518	0	2	5,653	0	0	96	51,269
Orangeburg	57,896	3,317	896	33,261	0	0	141	95,510
Pickens	47,544	453	4,255	4,094	0	0	86	56,432
Richland	288,202	15,056	13,537	27,484	0	0	127,832	472,111
Saluda	10,076	0	7	41	0	0	2,549	12,673
Spartanburg	248,906	3	6,239	221,418	0	0	244	476,809
Sumter	56,717	0	1,342	26,427	0	0	2,338	86,824
Union	19,272	0	788	248	0	0	27	20,335
Williamsburg	15,633	0	0	9,252	0	0	9,397	34,282
York	142,308	434	11	4,129	0	0	1,835	148,718
<b>S.C. COUNTIES TOTAL</b>	<b>3,113,365</b>	<b>49,269</b>	<b>113,790</b>	<b>966,074</b>	<b>10,119</b>	<b>0</b>	<b>356,716</b>	<b>4,609,332</b>
Georgia	18,173	0	286	17,143	0	0	4,097	39,699
New Jersey	0	0	0	2,881	0	0	0	2,881
New York	434,020	0	0	0	0	0	0	434,020
North Carolina	250,008	18	37	68,645	0	0	6,603	325,312
Tennessee	0	0	0	66	0	0	0	66
<b>OUT OF STATE TOTAL (CLASS 3)</b>	<b>702,201</b>	<b>18</b>	<b>323</b>	<b>88,734</b>	<b>0</b>	<b>0</b>	<b>10,701</b>	<b>801,977</b>
<b>TOTAL BY WASTE STREAM</b>	<b>3,815,566</b>	<b>49,287</b>	<b>114,114</b>	<b>1,054,808</b>	<b>10,119</b>	<b>0</b>	<b>367,417</b>	<b>5,411,309</b>

**TABLE 7.11: State & County MSW Recycling, Disposal & Generation Rates**

COUNTY	POPULATION	RECYCLING RATE (PERCENT)	RECYCLED (P/P/D)	DISPOSED (P/P/D)	GENERATION (P/P/D)	RECYCLED (TONS)	DISPOSED (TONS)
Abbeville	25,098	20.1	0.6	2.3	2.9	2,660	10,595
Aiken	156,017	11.5	0.4	3.4	3.9	12,698	97,343
Allendale	10,195	8.5	0.2	2.3	2.5	402	4,329
Anderson	184,901	14.1	0.6	3.6	4.1	19,619	119,949
Bamberg	15,005	14.0	0.6	3.4	4.0	1,524	9,346
Barnwell	22,688	9.5	0.4	3.7	4.1	1,632	15,502
Beaufort	170,419	20.8	1.1	4.1	5.2	33,574	127,930
Berkeley	173,498	9.8	0.4	3.5	3.9	12,137	111,990
Calhoun	14,621	7.9	0.5	6.2	6.7	1,404	16,436
Charleston	355,276	31.4	2.0	4.4	6.4	130,066	284,718
Cherokee	54,714	16.8	1.1	5.5	6.6	11,119	54,908
Chester	32,410	9.6	0.3	3.1	3.4	1,928	18,194
Chesterfield	43,037	12.5	0.3	2.0	2.3	2,237	15,707
Clarendon	32,988	19.1	0.6	2.4	3.0	3,396	14,387
Colleton	39,246	13.7	0.5	2.9	3.4	3,298	20,730
Darlington	66,445	11.5	0.4	2.8	3.2	4,412	33,911
Dillon	30,912	22.1	1.1	4.0	5.2	6,438	22,687
Dorchester	130,417	28.1	1.2	3.0	4.2	28,168	71,941
Edgefield	25,752	22.0	0.8	2.8	3.6	3,691	13,097
Fairfield	23,343	8.9	0.5	4.9	5.4	2,039	20,935
Florence	134,208	19.9	1.0	4.2	5.2	25,537	102,626
Georgetown	60,703	21.3	0.9	3.5	4.4	10,365	38,279
Greenville	451,428	37.1	2.3	3.9	6.2	188,880	319,684
Greenwood	69,671	20.7	1.2	4.8	6.0	15,848	60,847
Hampton	21,014	18.6	0.7	3.2	4.0	2,817	12,347
Horry	263,868	27.0	1.8	4.7	6.5	84,704	228,528
Jasper	23,221	8.1	0.3	3.6	4.0	1,368	15,432
Kershaw	60,042	25.9	0.9	2.6	3.5	9,953	28,406
Lancaster	77,767	17.8	0.4	1.9	2.4	5,994	27,612
Laurens	70,045	18.3	0.7	3.3	4.0	9,346	41,628
Lee	19,722	25.6	0.9	2.6	3.5	3,242	9,409
Lexington	255,607	31.3	1.4	3.0	4.4	64,611	141,796
Marion	33,468	24.9	0.9	2.8	3.7	5,632	16,991
Marlboro	28,783	17.4	0.5	2.6	3.1	2,822	13,437
McCormick	10,140	22.2	0.7	2.5	3.2	1,307	4,589
Newberry	38,763	17.7	1.1	5.0	6.0	7,520	35,050
Oconee	71,514	28.2	1.4	3.5	4.9	17,879	45,518
Orangeburg	90,112	20.1	0.9	3.5	4.4	14,590	57,896
Pickens	118,144	36.9	1.3	2.2	3.5	27,754	47,544
Richland	372,023	19.5	1.0	4.2	5.3	69,768	288,202
Saluda	19,094	18.5	0.7	2.9	3.5	2,289	10,076
Spartanburg	286,822	22.6	1.4	4.8	6.1	72,836	248,906
Sumter	104,495	21.7	0.8	3.0	3.8	15,677	56,717
Union	27,362	11.4	0.5	3.9	4.4	2,481	19,272
Williamsburg	34,445	17.6	0.5	2.5	3.0	3,335	15,633
York	227,003	44.6	2.8	3.4	6.2	114,520	142,308
<b>STATE TOTAL</b>	<b>4,576,446</b>	<b>25.5</b>	<b>1.3</b>	<b>3.7</b>	<b>5.0</b>	<b>1,063,521</b>	<b>3,113,365</b>

NOTE: Some county totals do not add up due to rounding of numbers.

**TABLE 7.12: Total Solid Waste (TSW) Recycling, Disposal and Generation in Tons**

COUNTY	POPULATION	TSW DISPOSED OF IN CLASS 3 LANDFILLS, SOLID WASTE (SW) INCINERATORS & EXPORTED	TSW DISPOSED OF IN CLASS 2 LANDFILLS	TSW DISPOSED OF IN CLASS 1 LANDFILLS	TOTAL AMOUNT OF ALL SW DISPOSED OF IN LANDFILLS OR INCINERATED	TOTAL COUNTY RECYCLING EFFORTS	TOTAL AMOUNT OF SW GENERATED (RECYCLED + DISPOSED)	PERCENT OF ALL SW GENERATED THAT WAS RECYCLED (SW RECYCLED ÷ SW GENERATED)
Abbeville	25,098	13,874	7,049	0	20,923	13,366	34,289	39.0
Aiken	156,017	127,415	157,782	12,906	298,103	13,225	311,327	4.2
Allendale	10,195	6,522	10,482	0	17,004	447	17,451	2.6
Anderson	184,901	130,955	65,773	23,964	220,692	70,239	290,931	24.1
Bamberg	15,005	9,461	5,357	0	14,818	1,752	16,569	10.6
Barnwell	22,688	15,753	57,050	0	72,802	1,762	74,564	2.4
Beaufort	170,419	150,849	60,050	0	210,899	122,015	332,914	36.7
Berkeley	173,498	324,793	497,096	0	821,889	106,346	928,235	11.5
Calhoun	14,621	23,062	4,949	0	28,011	4,603	32,614	14.1
Charleston*	355,276	372,908	208,667	0	581,575	255,928	837,503	30.0
Cherokee	54,714	85,767	15,509	0	101,276	23,494	124,770	18.8
Chester	32,410	26,297	21,426	0	47,723	2,077	49,800	4.2
Chesterfield	43,037	18,335	11,946	0	30,281	2,408	32,689	7.4
Clarendon	32,988	15,644	9,491	0	25,134	3,505	28,639	12.2
Colleton	39,246	100,137	21,577	0	121,713	3,846	125,560	3.1
Darlington	66,445	38,461	33,051	0	71,512	95,577	167,089	57.2
Dillon	30,912	24,321	8,342	0	32,663	6,530	39,193	16.7
Dorchester	130,417	98,774	150,089	0	248,862	38,119	286,981	13.3
Edgefield	25,752	13,119	5,145	1,400	19,663	9,415	29,078	32.4
Fairfield	23,343	21,214	859	0	22,073	2,301	24,375	9.4
Florence	134,208	132,582	165,398	0	297,981	29,172	327,153	8.9
Georgetown	60,703	48,446	67,158	0	115,603	10,673	126,277	8.5
Greenville	451,428	451,344	154,163	286	605,793	262,555	868,348	30.2
Greenwood	69,671	98,963	13,838	1,176	113,977	42,326	156,303	27.1
Hampton	21,014	13,179	3,001	0	16,181	3,503	19,684	17.8
Horry	263,868	228,843	82,451	0	311,294	145,273	456,566	31.8
Jasper	23,221	19,155	3,047	211	22,413	1,582	23,995	6.6
Kershaw	60,042	43,691	95,973	2,190	141,854	24,426	166,280	14.7
Lancaster	77,767	28,506	47,791	435	76,733	12,194	88,926	13.7
Laurens	70,045	45,586	9,990	490	56,066	13,151	69,217	19.0
Lee	19,722	71,965	0	0	71,965	3,315	75,280	4.4
Lexington	255,607	252,309	147,292	7,329	406,931	204,265	611,196	33.4
Marion	33,468	18,733	12,642	0	31,375	7,085	38,460	18.4
Marlboro	28,783	14,913	10,690	0	25,602	100,222	125,824	79.7
McCormick	10,140	5,120	1,616	0	6,735	3,302	10,037	32.9
Newberry	38,763	41,072	7,657	0	48,729	8,652	57,381	15.1
Oconee	71,514	51,269	20,519	1,187	72,975	34,760	107,735	32.3
Orangeburg	90,112	95,510	242,131	0	337,642	18,709	356,350	5.3
Pickens	118,144	56,432	15,726	175	72,333	33,235	105,568	31.5
Richland	372,023	472,111	253,076	7,365	732,552	88,972	821,524	10.8
Saluda	19,094	12,673	1,521	512	14,706	11,083	25,789	43.0
Spartanburg	286,822	476,809	68,643	1,214	546,666	199,328	745,994	26.7
Sumter	104,495	86,824	46,213	0	133,037	19,535	152,572	12.8
Union	27,362	20,335	3,790	2,220	26,345	3,187	29,532	10.8
Williamsburg	34,445	34,282	21,770	0	56,052	3,700	59,752	6.2
York	227,003	148,718	103,147	1,681	253,546	719,843	973,389	74.0
<b>TOTAL FOR S.C. COUNTIES</b>	<b>4,576,446</b>	<b>4,587,028</b>	<b>2,950,933</b>	<b>64,739</b>	<b>7,602,701</b>	<b>2,781,003</b>	<b>10,383,703</b>	<b>26.7</b>
<b>OUT OF STATE TOTAL</b>	<b>—</b>	<b>801,977</b>	<b>75,567</b>	<b>902</b>	<b>878,445</b>	<b>—</b>	<b>878,445</b>	<b>—</b>
<b>TOTAL WASTE STREAM</b>	<b>—</b>	<b>5,389,005</b>	<b>3,026,500</b>	<b>65,641</b>	<b>8,481,146</b>	<b>2,781,003</b>	<b>11,262,148</b>	<b>—</b>

\*This table does not include the 22,304 tons of ash disposed of at Charleston County Bees Ferry Landfill.

**TABLE 7.13: Class 1 Landfill Disposal in Tons by County**

COUNTY OR PLACE OF ORIGIN	FY06	FY07	FY08	FY09	FY10
Abbeville	1,026	1,020	0	697	0
Aiken	26,797	29,274	23,962	13,543	12,906
Allendale	0	0	3	0	0
Anderson	16,196	15,198	10,920	18,057	23,964
Bamberg	0	0	0	0	0
Barnwell	0	0	0	0	0
Beaufort	0	0	0	0	0
Berkeley	0	0	0	0	0
Calhoun	0	0	0	0	0
Charleston	0	0	0	0	0
Cherokee	0	0	0	0	0
Chester	0	0	0	0	0
Chesterfield	0	0	0	0	0
Clarendon	0	0	0	0	0
Colleton	0	0	0	0	0
Darlington	0	0	0	0	0
Dillon	0	0	0	0	0
Dorchester	0	0	0	0	0
Edgefield	3,434	5,453	3,119	1,374	1,400
Fairfield	0	0	0	0	0
Florence	0	0	0	0	0
Georgetown	0	0	0	0	0
Greenville	1,152	6,975	180	113	286
Greenwood	0	0	159	1,245	1,176
Hampton	0	0	0	0	0
Horry	0	0	0	0	0
Jasper	666	630	456	0	211
Kershaw	0	0	2,525	2,305	2,190
Lancaster	119	250	0	380	435
Laurens	227	396	130	446	490
Lee	0	0	0	0	0
Lexington	1,466	8,457	37,146	16,545	7,329
Marion	0	0	0	0	0
Marlboro	0	0	0	0	0
McCormick	7	324	8	32	0
Newberry	100	100	215	63	0
Oconee	11,342	8,579	6,055	3,930	1,187
Orangeburg	2	0	0	0	0
Pickens	16,513	10,712	3,392	920	175
Richland	200	4,840	13,287	7,682	7,365
Saluda	0	0	325	228	512
Spartanburg	3,673	2,685	1,305	470	1,214
Sumter	0	0	0	0	0
Union	906	854	0	2,802	2,220
Williamsburg	0	0	0	0	0
York	42,284	37,440	25,241	1,652	1,681
Total South Carolina	126,110	133,187	128,429	72,484	64,739
Total Out-of-State	4,542	1,665	5,032	1,008	902
<b>TOTAL AMOUNT DISPOSED OF</b>	<b>130,652</b>	<b>134,852</b>	<b>133,461</b>	<b>73,492</b>	<b>65,641</b>

**TABLE 7.14: Class 2 Landfill Disposal and Estimated Remaining Life**

COUNTY	LANDFILL	PERMITTED ANNUAL RATE OF DISPOSAL IN TONS	FY10 DISPOSAL IN TONS	ESTIMATED REMAINING LIFE OF FACILITY IN YEARS
Abbeville	Abbeville County	10,000	7,047	47.9
Aiken	Aiken County (Barden)	80,000	54,219	20.5
Aiken	Aiken County (Wagener)	N/A	3,420	59.9
Aiken	Owens Corning Fiberglass	N/A	9,326	11.3
Aiken	Rainbow Falls Road	103,216	69,248	30.0
Aiken	Savannah River Site 288-F	N/A	0	55.3
Aiken	Savannah River Site 488-4D	25,000	20,400	6.0
Aiken	SCE&G Urquhart	N/A	9,636	24.0
Allendale	Appleton	21,000	13,840	35.4
Anderson	Anderson County	43,300	11,985	34.0
Anderson	Clemson University	25,000	2,000	25.0
Anderson	Enterprise Material Handling C&DLF	74,000	40,358	28.8
Anderson	Greenpointe	57,000	10,866	81.3
Anderson	Owens Corning Fiberglass	N/A	18,517	90.7
Bamberg	Bamberg County	13,000	2,987	0.6
Barnwell	Barnwell County	32,000	8,318	25.0
Barnwell	Savannah River Site 632-G	120,000	87,640	43.0
Beaufort	Barnwell Resources, Inc.	156,000	20,201	50.0
Berkeley	Berkeley County	214,703	23,450	3.0
Berkeley	Harvey Tract	N/A	125,959	59.8
Berkeley	Santee Cooper (Cross Generating Station)	N/A	341,857	0.4
Berkeley	SCE&G Williams Station, Hwy. 17A	N/A	121,349	0.0
Calhoun	Calhoun County	13,500	3,722	9.7
Calhoun	Eastman Chemical	1,305,450**	1,017	26.4
Charleston	Charleston County Bees Ferry	200,000	41,255	1.3
Charleston	Spring Grove Environmental	500,000	126,437	147.3
Cherokee	Cherokee County	20,000	11,415	29.0
Cherokee	City of Gaffney	8,930	4,019	34.1
Chester	Bennett Industrial Landfill	342,000**	27,251	29.0
Chester	Chester County	4,800	3,872	2.8
Chesterfield	Furr Facility	32,700	23,143	59.0
Clarendon	Clarendon County	10,000	9,491	2.5
Colleton	Colleton County	30,000	21,317	23.0
Darlington	Darlington County	15,200	16,356	90.9
Darlington	Sonoco Products	50,000	9,117	4.5
Dillon	Dillon County	11,700	8,398	9.0
Dorchester	Carolina LF, LLC	120,120	76,185	51.4
Edgefield	Tri-County Solid Waste Authority	10,000	4,560	0.0
Florence	Florence County	25,000	53	19.0
Florence	Lake City, City of	12,900	1,013	104.7
Florence	Pee Dee Environmental Services, Inc.	892,000	124,088	31.3
Florence	Smurfit-Stone Container Corp.	103,032	43,470	14.0
Georgetown	Georgetown County	51,000	21,190	1.5
Georgetown	International Paper Co.	120,000	40,600	2.4
Greenville	General Electric	N/A	8,172	0.0
Greenville	Greenville County	87,157	55,768	16.3
Greenville	Greenville (Republic)	200,000	13,513	9.3

\*Did Not Report \*\*Cubic yards per year \*\*\*Tons per day

COUNTY	LANDFILL	PERMITTED ANNUAL RATE OF DISPOSAL IN TONS	FY10 DISPOSAL IN TONS	ESTIMATED REMAINING LIFE OF FACILITY IN YEARS
Greenville	WCA Shiloh	128,000	59,083	25.4
Greenwood	Greenwood County	31,250	9,437	6.1
Hampton	Hampton County	21,000**	2,922	6.7
Horry	Horry County Solid Waste Authority	250,000	79,326	16.5
Jasper	Oakwood	188,000	42,997	26.5
Jasper	Snake Road	113,200	*	*
Kershaw	Kershaw County	30,000	30,067	29.0
Kershaw	Loveless & Loveless	200,000	69,117	198.0
Kershaw	Pine Hill	170,000	84,578	116.1
Lancaster	Mining Road Industrial	200,000	47,791	29.0
Laurens	City of Clinton	13,000	104	37.1
Laurens	Curry Lake	241,591	51,999	7.3
Lexington	Carolina Materials	240,000	38,894	4.5
Lexington	Lexington County (Edmund)	216,000	64,916	10.9
Lexington	SCE&G McMeekin Station	N/A	5,317	8.0
Lexington	S&T Recycling	12,000**	5,980	55.0
Lexington	Southeastern Associates	120,000	39,220	14.0
Marion	City of Mullins	135,350	0	0.0
Marion	Marion County	133,350	9,814	14.0
Marion	Sandlands (Phase II)	206,500	25,491	39.1
Marlboro	Domtar Paper	12,000	2,880	59.3
Newberry	Southeast Resource Recovery, Inc.	208,000	8,478	82.0
Oconee	Duke Power – Oconee Nuclear Station	2,000	338	27.4
Oconee	Oconee County	37,615	19,572	0.0
Orangeburg	Georgia Pacific Corp. Holly Hill	N/A	0	0.0
Orangeburg	Orangeburg County	31,000	24,405	0.8
Orangeburg	SCE&G Cope	N/A	217,550	109.3
Pickens	Pickens County	20,000	14,323	5.3
Richland	Carolina Grading Inc.	122,400	2	151.0
Richland	International Paper	N/A	130,000	16.7
Richland	Intertape Polymer Group	10,000	0	30.0
Richland	Richland County	200,000	32,784	27.0
Spartanburg	Kohler Company	N/A	8,164	99.1
Spartanburg	Spartanburg County	80,000	41,131	1.4
Spartanburg	Tindall Special Waste	N/A	N/A	N/A
Sumter	Sumter County	51,332	41,882	0.0
Williamsburg	City of Lake City	12,900	*	*
Williamsburg	Martek	80,000	18,984	4.0
Williamsburg	Williamsburg County	4,370	2,253	5.0
York	Bowater	N/A	15,000	11.8
York	Coltharp	70,000	38,000	6.0
York	Duke Power – Catawba Nuclear Station	N/A	144	15.3
York	Green's of Rock Hill #1	1,000***	7,900	9.6
York	Green's of Rock Hill #2	1,000***	3,500	10.0
York	Rogers	Not in permit	1,800	10.0
York	York County	75,000	32,311	1.8
<b>TOTAL</b>		<b>8,619,066</b>	<b>3,026,500</b>	

\*Did Not Report \*\*Cubic yards per year \*\*\*Tons per day

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# **SOLID WASTE PLANNING**

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The S.C. Department of Health and Environmental Control (DHEC) has the responsibility for permitting landfills and other facilities that manage solid waste in South Carolina. But while state and federal regulations dictate specific engineering and geological requirements for these facilities, there

also are other state and local planning tools and requirements that dictate specific geographical locations where the facilities may be placed. Responsibility for comprehensive solid waste planning therefore lies with state, county and even municipal governments.

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## **LOCAL PLANNING RESPONSIBILITIES**

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### **County/Regional Solid Waste Management Plans**

DHEC works with local governments to ensure adequate disposal capacity for solid waste and that proposed solid waste facilities are located in accordance with federal, state and local requirements. County governments have the responsibility for developing and implementing county or regional solid waste management plans. The S.C. Solid Waste Policy and Management Act of 1991 (Act) requires each county to have a comprehensive solid waste management plan. Counties may join together to create and implement a regional solid waste management plan.

Local plans are to provide information related to solid waste facilities, waste generation, local disposal and management options, full-cost data and recycling plans. Copies of local plans may be obtained from the appropriate local government. Local plans should be used to identify how much solid waste will be generated for disposal and to indicate the necessary solid waste facilities to manage that waste.

Language in the local plan should be clear, concise and based on factual data and research. Because the local government is responsible for providing management of all solid waste, the local plan should address all solid waste streams and all applicable facility types and methods of treatment. The Act requires local governments to consider solid waste needs for a 20-year planning period.

Local plans should be reviewed periodically to assess the impact of regulatory changes, new permit issuances, population changes and waste generation trends. For these reasons, DHEC encourages counties and regions to review their solid waste management plans periodically and update or revise them as needed.

Counties should develop their solid waste management plans with input from cities and towns within the county and offer an opportunity for public input into the plans.

### **Zoning and Land-use Planning**

In addition to consideration of local solid waste plans, DHEC has responsibility to ensure that the location of new facilities are consistent with county and city zoning ordinances as well as land-use plans. Any county or city that enacts zoning and land-use plans should consider the impact upon available locations for the placement of solid waste management facilities.

DHEC provides guidance and assistance for local officials and solid waste consultants to consider when submitting, writing and/or modifying local solid waste plans. Staff will conduct workshops or make presentations upon request. Assistance also is available to the regulated community to help determine how a proposed facility would be impacted by state and local planning considerations.

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# STATE PLANNING RESPONSIBILITIES

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DHEC has responsibility for:

- developing a state solid waste management plan;
- determining consistency with state and local or regional solid waste management plans, local zoning and other local land-use ordinances; and
- approving Demonstration of Need (DON) for certain solid waste management facilities.

## The S.C. Solid Waste Management Plan

The Act also requires the state to have a comprehensive solid waste management plan. The S.C. Solid Waste Management Plan (State Plan) contains an inventory of the amounts and types of solid waste currently being disposed of, solid waste disposal projections for a 20-year period, an estimate of the current capacity in this state to manage solid waste as well as an analysis and evaluation of current practices.

The State Plan was adopted in 1992 and revised in 1999. In 2006, a modification was made to establish

limits for facilities that use emerging technologies to manage solid waste until such time as the technologies have been determined to be effective and safe. This annual report is an update to the State Plan as required by the Act.

## Consistency Determinations

Before a solid waste management facility can be permitted, it must be determined to be consistent with the State Plan, with the local county or regional solid waste management plan and with local zoning or land-use requirements. Although a county or region develops the local solid waste management plan, zoning ordinances and/or other land-use ordinances, DHEC conducts a review of the local plan and other applicable ordinances and makes an independent consistency determination.

It is essential therefore, that each county solid waste management plan be current and written so that it clearly conveys the intent of the county over the 20-year planning period. It is equally important that city and county zoning and land-use plans clearly reflect the intent of the appropriate local government with regard to the suitability of specific locations for solid waste management facilities.

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# DEMONSTRATION OF NEED

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DON refers to the criteria established for the geographical placement and allowable annual disposal rate of new and expanding solid waste management facilities. The original DON regulation was put into effect in June 2000 and on June 26, 2009, a revision to Regulation 61-107.17 SWM: Demonstration-of-Need became effective.

The revision addresses DON for commercial Class 3 landfills, commercial Class 2 landfills, commercial solid waste incinerators that incinerate waste other than wood waste or yard trimmings and commercial solid waste processing facilities that process waste destined for disposal at Class 3 solid waste landfills.

The revised regulation defines a facility as being “non-commercial” if it manages only the solid waste generated in the course of normal operations on property under the same ownership or control as the

facility itself (i.e., “on site”). Non-commercial facilities are not required to demonstrate need. The DON regulation stipulates that where there are at least two commercial solid waste management facilities of the same type within a planning area, no new facility is allowed.

## Class 2 Landfills

Class 2 landfills accept land-clearing debris, certain construction and demolition debris, certain brown goods and under certain conditions, animal carcasses. Class 2 landfills have a 20-mile planning radius.

To calculate allowable annual disposal at new Class 2 landfills, DHEC uses 100 percent of the host county generation and 30 percent of the generation in other counties within the planning area. Tonnage increases for existing Class 2 facilities are allowed only if the

facility is operating within 20 percent of its permitted amount, (i.e., the amount of waste disposed per year is 80 percent or more of the annual permitted capacity). If a Class 2 landfill qualifies for an increase, it can receive the lesser of the amount that disposal in the planning area has increased since the facility last received a permitted increase or 50,000 tons.

Class 2 landfills operating on the effective date of the regulation are allowed variances from certain DON requirements with respect to replacement facilities, tonnage increases and expansions.

See Table 8.2 on page 68 for Class 2 waste generated for disposal by county for use in demonstrating need.

### Class 3 Landfills

Class 3 landfills accept municipal solid waste, industrial solid waste, sewage sludge, non-hazardous municipal solid waste incinerator ash and other non-hazardous waste. For new commercial Class 3 landfills, allowable tonnage is calculated using 100 percent of the host county generation and 50 percent of other counties' generation within the planning area except that none is counted from other counties that have an existing Class 3 landfill.

The yearly disposal rate at an existing landfill is allowed to increase only if the facility is within 20 percent of its permitted disposal rate (i.e., the amount of waste disposed per year is 80 percent or more of the annual permitted capacity). If a Class 3 landfill qualifies for an increase, it can receive the lesser of the amount that disposal in South Carolina has increased since the facility last received a permitted increase or 150,000 tons.

In addition, the allowable yearly disposal rate at any Class 3 landfill cannot exceed 30 percent of solid waste generated in South Carolina that is destined

for disposal in Class 3 landfills. Class 3 landfills operating on the effective date of the regulation are allowed variances from certain DON requirements with respect to replacement facilities, tonnage increases and expansions.

See Table 8.3 on page 69 for Class 3 waste generated for disposal by county for use in demonstrating need.

### Solid Waste Incinerators

The yearly throughput for a solid waste incinerator is based on the manufacturer's design of the incinerator, but cannot exceed 600 tons per day. The DON regulation does not apply to air curtain incinerators that receive only wood waste and yard trimmings.

### Solid Waste Processing Facilities

The maximum allowable yearly throughput of a solid waste processing facility that processes waste destined for disposal at a Class 3 landfill is equal to the total amount of solid waste destined for disposal that is generated in the host county and 50 percent of the waste generated in each county other than the host county, that falls wholly or partially within the 75-mile planning radius.

#### DON Snapshot

The remainder of this section contains tables and maps that reflect the status of DON at the end of fiscal year 2010 (July 1, 2009 to June 30, 2010). To enable annual tonnage limit calculations pursuant to the revised regulation, historical data tables have been reorganized and recalculated as compared to past annual reports.

**TABLE 8.1: DON Requirements for New Solid Waste Management (SWM) Facilities**

COMMERCIAL SWM FACILITY	PLANNING AREA AROUND FACILITY	NUMBER OF FACILITIES ALLOWED WITHIN PLANNING AREA	THROUGHPUT/ANNUAL TONNAGE CALCULATION FOR NEW FACILITIES
Class 2 Landfills	20 miles	2	100 percent of host county tonnage plus 30 percent of generation from other counties in planning area
Class 3 Landfills	75 miles	2	Total of 100 percent of host county tonnage and 50 percent of tonnage of counties in planning area without a Class 3 landfill. Cannot exceed 30 percent of total state generation
Solid Waste Incinerators	75 miles	2	Based on the manufacturer's design of the incinerator not to exceed 600 tons per day
Solid Waste Processors	75 miles	2	Total of 100 percent of host county tonnage and 50 percent of tonnage of other counties in planning area

**TABLE 8.2: Class 2 Waste Generated for Disposal in Tons for Use in Demonstrating Need**

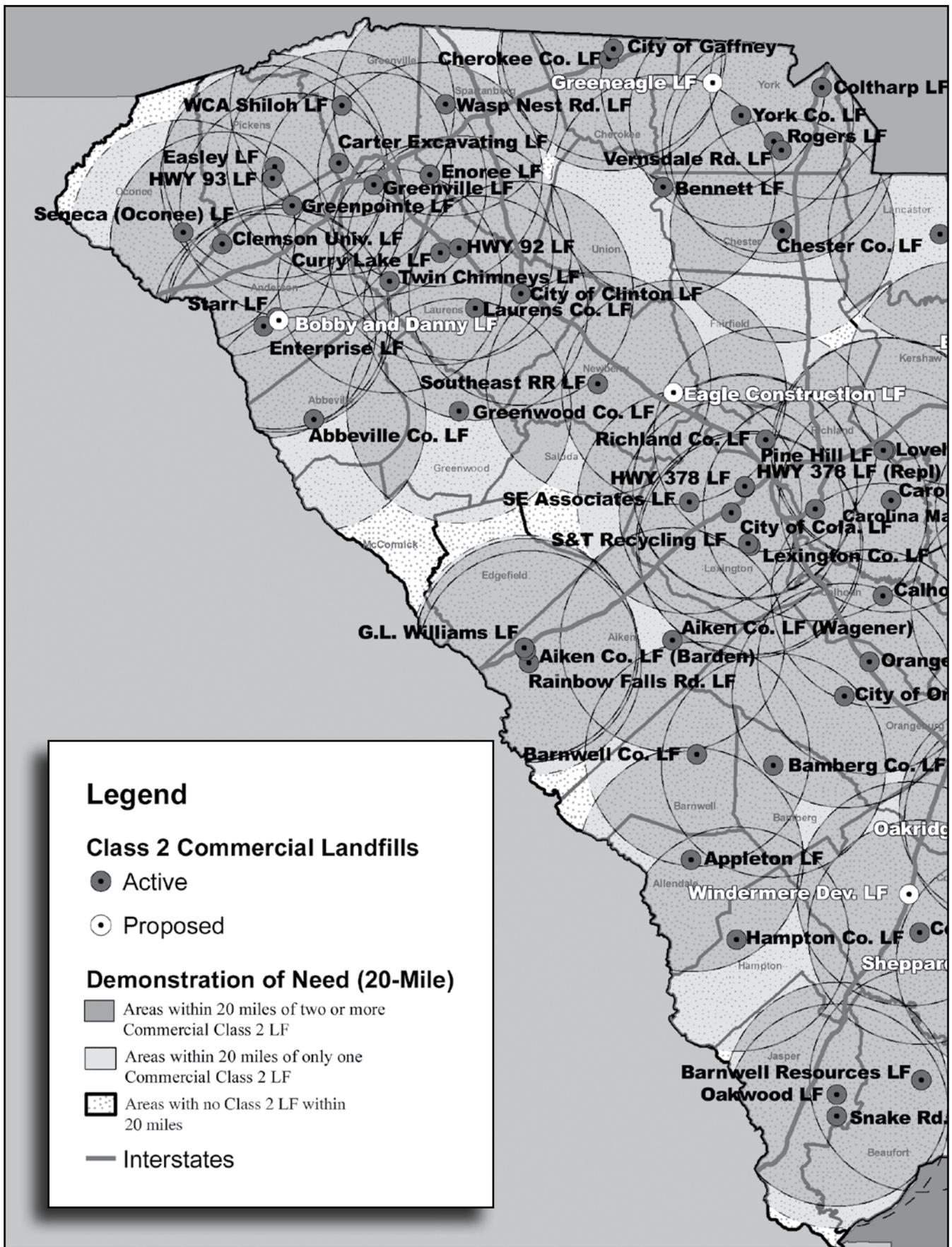
COUNTY	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Abbeville	1,060	896	766	1,191	13,510	4,550	6,597	3,256	2,554	8,180	7,049
Aiken	34,469	45,631	61,565	88,655	88,717	79,529	90,100	102,927	22,443	81,575	78,348
Allendale	526	962	1,814	3,534	1,578	3,128	2,354	2,171	1,509	1,586	10,482
Anderson	29,408	44,258	64,339	52,417	37,316	35,817	51,311	70,823	63,670	48,079	45,256
Bamberg	5,742	4,341	5,796	5,788	4,883	4,811	6,175	6,381	126	18,871	5,357
Barnwell	8,964	10,736	10,651	12,749	8,329	10,411	10,921	10,700	11,686	11,868	9,481
Beaufort	115,513	107,950	91,022	102,287	121,464	139,916	141,752	130,391	86,288	67,541	60,050
Berkeley	61,733	51,034	72,948	58,137	66,023	73,228	101,411	98,516	121,267	54,266	33,890
Calhoun	6,501	7,243	5,873	4,067	4,139	3,554	4,474	3,176	3,057	3,501	3,932
Charleston	152,971	199,464	161,872	189,168	296,129	281,444	333,332	341,113	440,913	239,234	208,667
Cherokee	12,123	8,695	10,916	8,586	10,658	21,604	16,240	9,818	10,402	10,613	15,509
Chester	2,874	5,713	22,572	27,897	21,894	4,373	73,343	4,517	251,972	20,566	21,426
Chesterfield	0	3,746	7,545	15,192	12,805	16,194	14,738	12,181	0	11,855	11,946
Clarendon	7,036	6,019	4,574	4,605	5,500	9,296	8,951	10,288	7,352	10,194	9,491
Colleton	5,790	14,846	14,842	13,295	13,157	13,823	17,439	20,900	23,668	19,522	21,577
Darlington	15,225	15,118	21,252	19,662	12,614	17,358	16,264	16,755	11,721	16,100	23,934
Dillon	8,412	9,951	11,359	10,096	11,412	40,344	8,352	10,549	11,233	11,310	8,342
Dorchester	29,250	17,706	16,069	10,044	0	63,910	77,295	82,099	94,641	57,612	24,130
Edgefield	1,700	3,790	2,811	3,972	3,442	3,244	13,116	12,479	6,119	9,644	5,145
Fairfield	104	0	407	311	126	209	399	284	780	343	859
Florence	68,490	67,721	69,005	68,534	93,715	34,114	27,002	54,069	323,917	96,557	121,928
Georgetown	28,603	27,770	26,820	22,114	33,680	30,087	51,581	34,270	49,886	27,765	26,558
Greenville	50,526	136,406	130,381	148,152	87,157	142,780	163,834	161,738	210,924	168,463	145,991
Greenwood	15,276	2,932	8,343	12,283	8,908	14,696	20,174	26,714	21,063	28,908	13,838
Hampton	3,761	3,349	5,714	3,221	7,444	8,590	7,786	8,993	7,462	10,466	3,001
Horry	136,306	121,949	116,954	135,648	170,856	155,676	226,672	332,583	141,007	109,953	82,451
Jasper	921	768	6,868	1,028	812	176	3,681	4,907	5,837	3,137	3,047
Kershaw	22,183	23,208	31,193	30,452	33,277	41,925	52,688	42,346	41,652	41,026	95,973
Lancaster	43,526	46,769	24,706	34,499	34,009	31,067	26,798	27,344	65,801	29,834	47,791
Laurens	8,866	7,464	8,875	17,156	19,634	6,655	11,435	16,860	12,811	7,359	9,990
Lee	0	0	0	0	0	0	0	0	0	0	0
Lexington	215,614	221,934	225,122	263,041	239,924	246,785	237,178	217,465	223,503	153,665	141,975
Marion	2,952	9,238	7,055	10,982	16,493	29,818	62,965	31,299	19,419	18,875	12,642
Marlboro	181	540	1,059	1,034	1,040	845	1,212	2,491	0	10,486	7,810
McCormick	872	1,086	937	820	957	1,335	4,409	1,669	1,009	1,023	1,616
Newberry	7	205	517	632	997	1,098	2,263	1,219	10,577	7,024	7,657
Oconee	12,714	27,064	24,291	23,577	29,279	19,867	23,838	26,385	24,337	22,577	20,181
Orangeburg	39,885	23,695	20,213	21,579	24,097	20,915	26,419	27,360	50,573	29,922	24,581
Pickens	11,207	18,496	20,097	30,323	23,880	34,754	17,951	20,807	21,867	19,806	15,726
Richland	204,288	205,404	190,545	220,088	206,332	216,945	216,246	196,701	198,115	199,056	123,076
Saluda	2,054	1,700	2,028	1,116	1,176	1,149	1,960	1,465	1,614	1,601	1,521
Spartanburg	103,583	91,717	103,904	39,812	71,553	71,917	71,047	72,161	80,217	65,229	60,479
Sumter	49,638	49,039	48,489	51,963	42,747	38,934	55,714	50,625	50,656	4,193	46,213
Union	3,814	5,892	20,178	2,928	1,018	1,236	8,421	2	6	3,082	3,790
Williamsburg	18,452	4,828	4,106	3,818	2,585	2,386	7,220	6,491	3,280	3,860	2,786
York	65,072	78,174	67,808	50,718	99,277	98,029	97,493	125,969	113,171	74,202	76,603
<b>TOTAL</b>	<b>1,608,192</b>	<b>1,735,447</b>	<b>1,754,201</b>	<b>1,827,171</b>	<b>1,984,543</b>	<b>2,078,522</b>	<b>2,420,551</b>	<b>2,441,257</b>	<b>2,850,105</b>	<b>1,840,529</b>	<b>1,702,095</b>

NOTE: This data is used for calculating annual tonnage limits as related to R.61-107.17, DON, effective June 26, 2009. The historical data reported has been adjusted to reflect changes in the DON regulation.

**TABLE 8.3: Class 3 Waste Generated for Disposal in Tons for Use In Demonstrating Need**

COUNTY	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Abbeville	25,486	25,879	23,792	25,909	18,817	15,836	17,219	17,959	15,611	13,987	13,874
Aiken	103,087	121,897	101,193	111,935	149,515	131,285	101,563	125,796	127,491	120,058	114,556
Allendale	6,303	6,297	6,549	6,540	5,903	6,990	5,813	10,990	7,932	7,209	6,522
Anderson	165,060	136,770	170,387	148,232	148,849	161,610	138,783	130,509	135,794	115,667	130,955
Bamberg	17,606	19,644	17,911	13,768	11,652	11,280	11,857	10,665	10,799	10,457	9,461
Barnwell	22,064	20,570	71,924	18,247	19,373	20,128	17,683	19,488	17,474	15,705	15,753
Beaufort	134,951	139,979	142,337	151,624	167,383	181,849	199,029	177,278	163,868	177,291	148,470
Berkeley	160,999	155,071	178,342	309,398	353,891	314,269	379,387	636,603	501,690	339,890	324,793
Calhoun	12,697	3,938	10,183	9,659	8,660	12,143	10,615	11,109	11,100	15,331	23,062
Charleston	290,198	159,547	166,317	191,932	391,841	285,117	256,089	281,938	270,676	274,636	325,997
Cherokee	97,981	86,395	78,519	73,943	71,332	71,145	69,106	88,008	52,137	77,652	85,767
Chester	31,311	31,543	58,377	44,435	37,070	37,847	43,496	33,323	63,758	30,115	26,297
Chesterfield	57,554	24,842	22,951	24,514	21,941	20,206	17,543	15,168	15,428	13,572	18,335
Clarendon	32,850	32,148	14,222	10,932	18,403	8,112	10,671	16,377	16,364	15,514	15,644
Colleton	39,291	19,762	53,092	31,938	35,071	38,826	39,014	39,358	44,683	38,032	100,137
Darlington	39,352	51,138	45,920	68,953	52,057	51,823	47,333	70,796	88,008	90,953	38,461
Dillon	30,701	38,571	37,795	49,694	26,970	34,416	31,492	38,616	35,317	25,246	24,321
Dorchester	87,567	65,143	71,509	97,934	163,930	139,405	149,202	121,366	125,826	123,105	98,774
Edgefield	13,765	14,822	14,774	14,870	13,969	13,406	13,371	14,473	15,531	15,158	13,119
Fairfield	23,130	21,065	19,664	23,076	22,546	21,981	20,721	22,041	21,306	22,927	21,214
Florence	131,033	150,094	148,367	151,123	152,909	154,874	149,919	135,663	139,811	165,766	132,582
Georgetown	70,117	59,655	71,720	70,531	49,736	50,709	54,719	51,870	42,675	43,011	48,446
Greenville	498,874	526,467	489,216	613,417	589,204	673,249	674,574	682,511	602,825	526,402	451,344
Greenwood	111,454	105,728	93,699	91,719	109,407	120,320	117,341	112,858	102,693	84,863	98,963
Hampton	20,701	20,203	20,656	22,039	18,188	22,991	17,322	18,609	18,266	12,561	13,179
Horry	195,960	199,410	193,573	212,686	227,469	222,935	237,582	246,126	248,988	235,314	228,843
Jasper	13,968	15,351	15,457	17,692	27,039	22,100	22,050	32,139	32,966	30,904	18,928
Kershaw	36,358	37,575	39,716	45,597	40,162	44,233	43,368	41,904	37,705	37,240	43,691
Lancaster	33,433	30,175	36,565	35,088	35,623	31,561	33,842	30,489	34,114	30,054	28,506
Laurens	49,167	51,133	50,477	57,940	51,636	73,090	49,210	42,475	39,671	42,978	45,586
Lee	18,674	19,245	27,034	14,670	14,981	15,425	14,737	14,941	15,837	14,637	71,965
Lexington	125,788	128,951	172,856	221,323	256,226	171,692	193,268	190,583	188,295	171,124	169,820
Marion	54,027	13,830	16,585	4,796	21,673	14,380	21,683	26,141	30,454	21,241	18,733
Marlboro	14,731	10,401	16,763	15,289	21,815	12,004	13,276	12,332	10,314	12,063	14,913
McCormick	4,746	5,333	4,682	11,869	5,183	4,858	4,524	4,505	4,232	4,264	5,120
Newberry	40,326	44,292	47,662	47,893	48,591	50,420	49,951	48,603	39,330	40,574	41,072
Oconee	44,351	50,400	46,749	45,260	45,533	49,368	53,302	56,408	54,865	49,338	51,269
Orangeburg	78,506	85,677	84,278	98,350	92,969	94,382	100,988	89,386	79,245	75,717	70,448
Pickens	47,353	58,572	56,669	56,938	59,873	54,966	51,255	58,104	52,715	53,494	52,257
Richland	365,878	342,760	323,740	327,966	349,087	341,907	376,435	354,977	353,135	348,475	457,204
Saluda	10,360	8,702	8,619	9,197	9,684	14,687	11,870	11,116	11,025	9,680	12,673
Spartanburg	316,587	314,706	307,298	418,942	373,060	351,908	381,084	381,750	484,612	412,680	476,809
Sumter	84,072	96,023	95,752	119,698	135,220	156,345	163,056	108,801	101,854	94,452	86,824
Union	19,659	17,241	15,794	12,835	18,988	28,309	14,178	18,775	19,803	30,702	20,335
Williamsburg	33,215	36,385	26,966	26,100	25,582	28,259	39,045	45,506	79,698	52,614	34,282
York	137,258	144,255	139,609	147,720	152,150	166,059	161,476	167,139	160,675	172,941	148,718
<b>TOTAL</b>	<b>3,948,549</b>	<b>3,747,585</b>	<b>3,856,260</b>	<b>4,324,211</b>	<b>4,671,161</b>	<b>4,548,705</b>	<b>4,630,042</b>	<b>4,865,572</b>	<b>4,726,596</b>	<b>4,315,594</b>	<b>4,398,022</b>

NOTE: This data is used for calculating annual tonnage limits as related to R.61-107.17, DON, effective June 26, 2009. The historical data reported has been adjusted to reflect changes in the DON regulation.



## DEMONSTRATION OF NEED MAP FOR CLASS 2 LANDFILLS



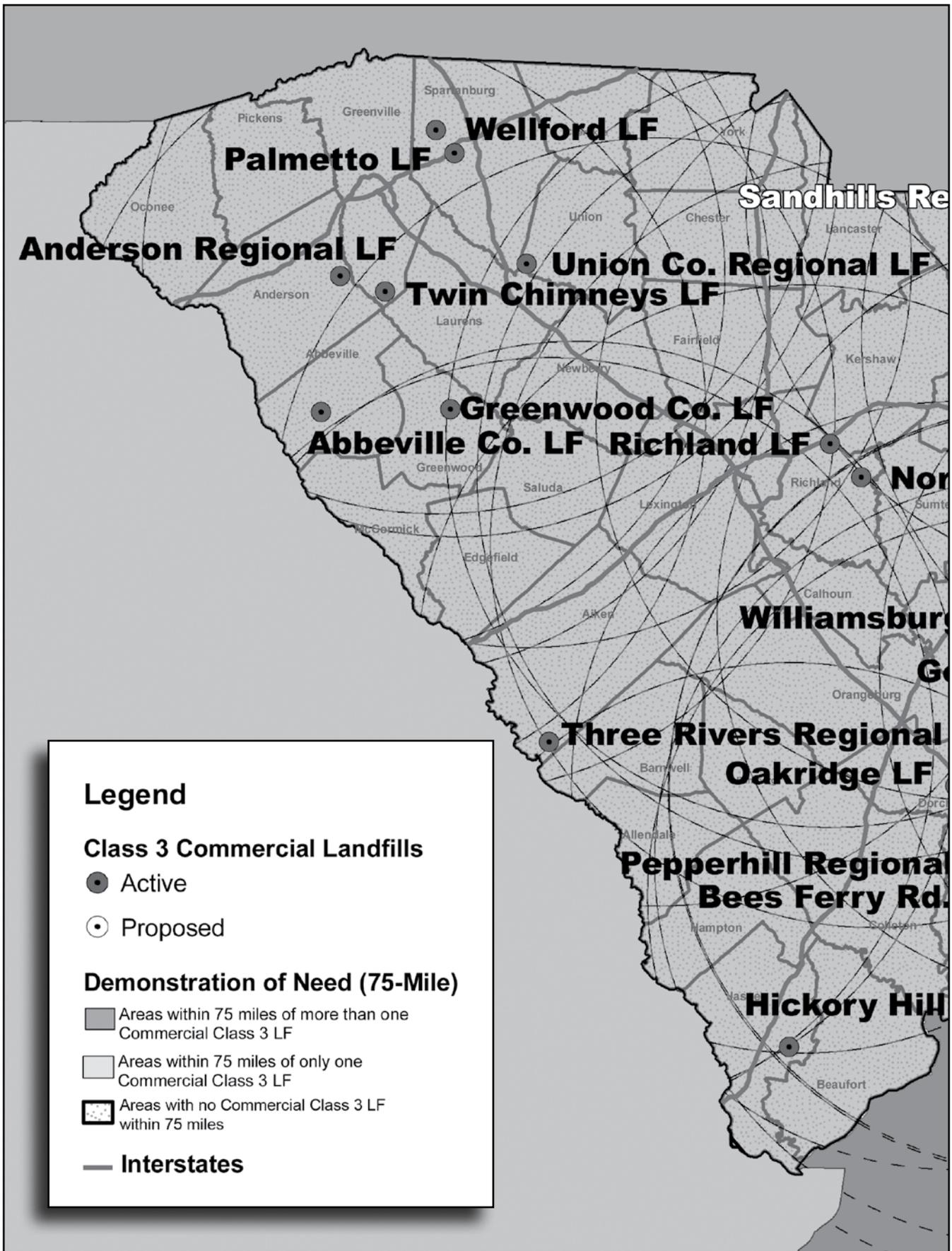
### CLASS 2

- Limits waste streams to Appendix I items without waste characterization.
- Waste that is characterized as less than 10 times the MCL and approved by DHEC may be added to the permit for acceptance/disposal.
- Operational Criteria:
  - Unauthorized waste may be stored at the facility for 30 days; except that putrescible waste must be removed within 72 hours.
  - States that an annual survey to determine landfill capacity used and the remaining permitted capacity may be required on a case-by-case basis.
  - Requires scales – but exempts scales for facilities with less than 10,000 tons per year and on-site landfills.
- Design Criteria:
  - Requires the settlement calculations on the bottom elevation.
  - Requires DHEC to inspect the landfill prior to waste placement.
  - Requires airport buffer for landfills accepting dead animals.
  - Sets cap requirements at 2 feet of soil.
  - Buffers established when “Notice of Intent to File a Permit Application” is published.
  - Requires groundwater monitoring and corrective action.
  - Sets post-closure (20 years).
  - Requires closure and post-closure financial assurance.

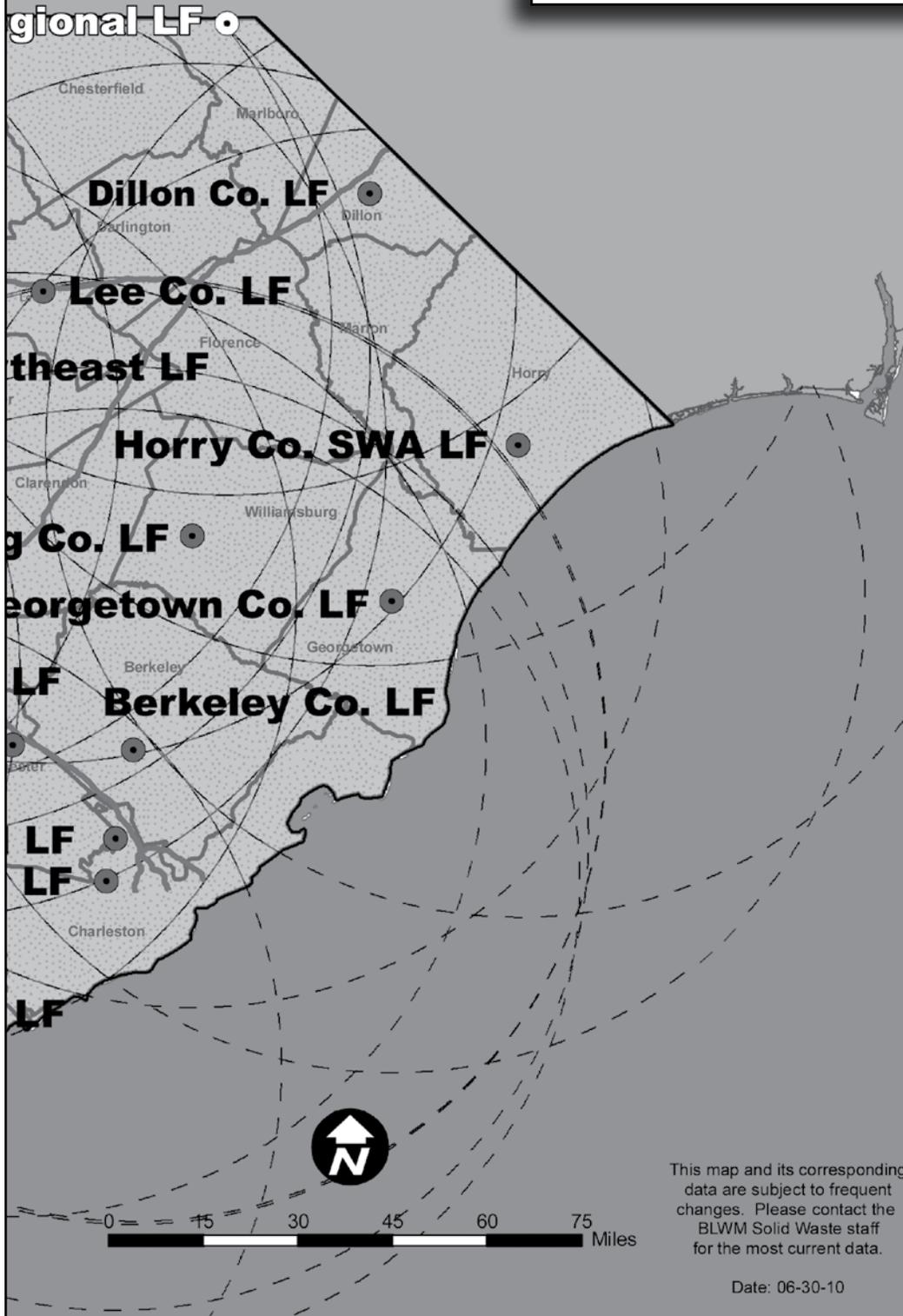
This map and its corresponding data are subject to frequent changes. Please contact the BLWM Solid Waste staff for the most current data.

Date: 06-30-10

SOURCE: [www.scdhec.gov/environment/lwm/regs/R61-107-19.pdf](http://www.scdhec.gov/environment/lwm/regs/R61-107-19.pdf)



# DEMONSTRATION OF NEED MAP FOR CLASS 3 LANDFILLS

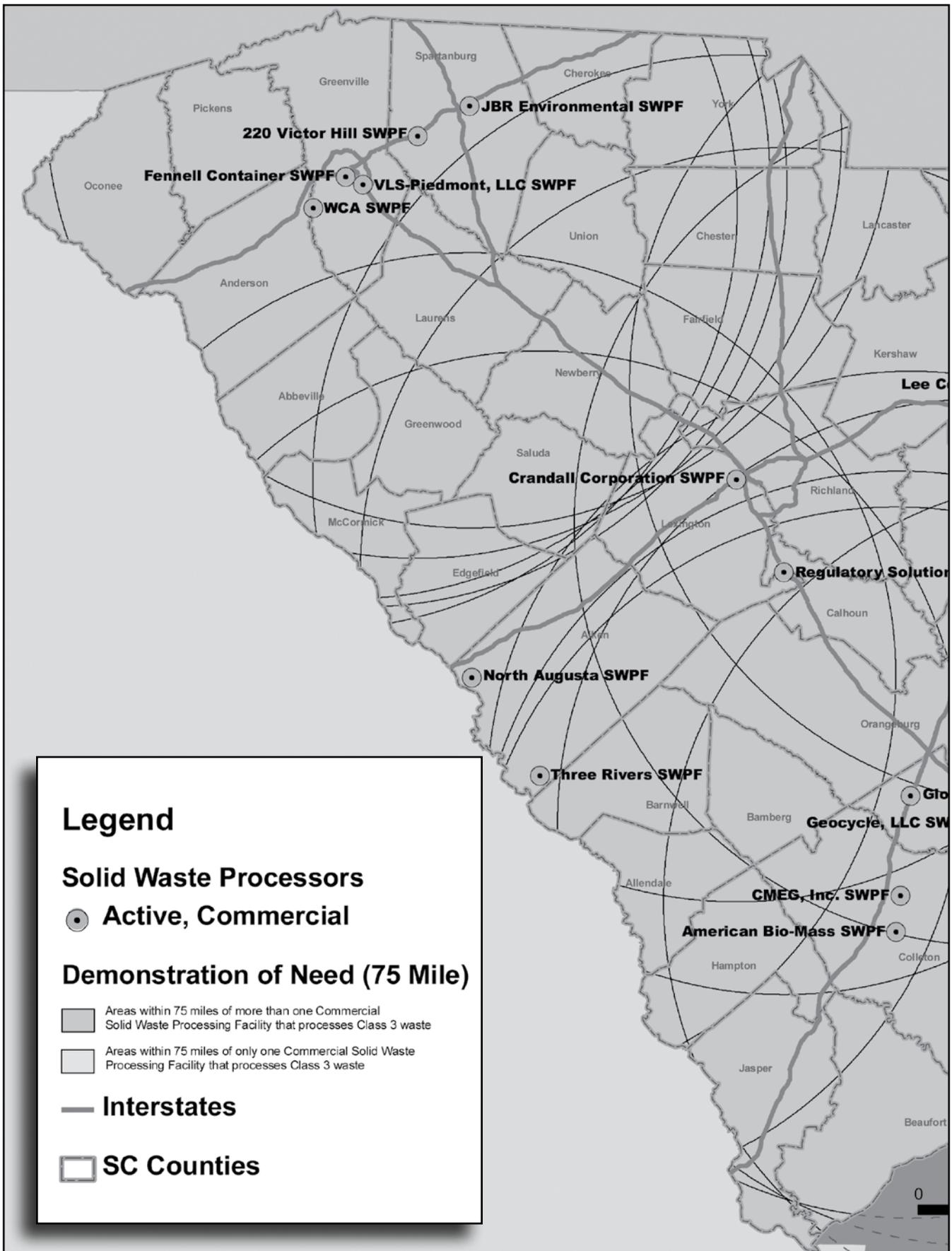


## CLASS 3

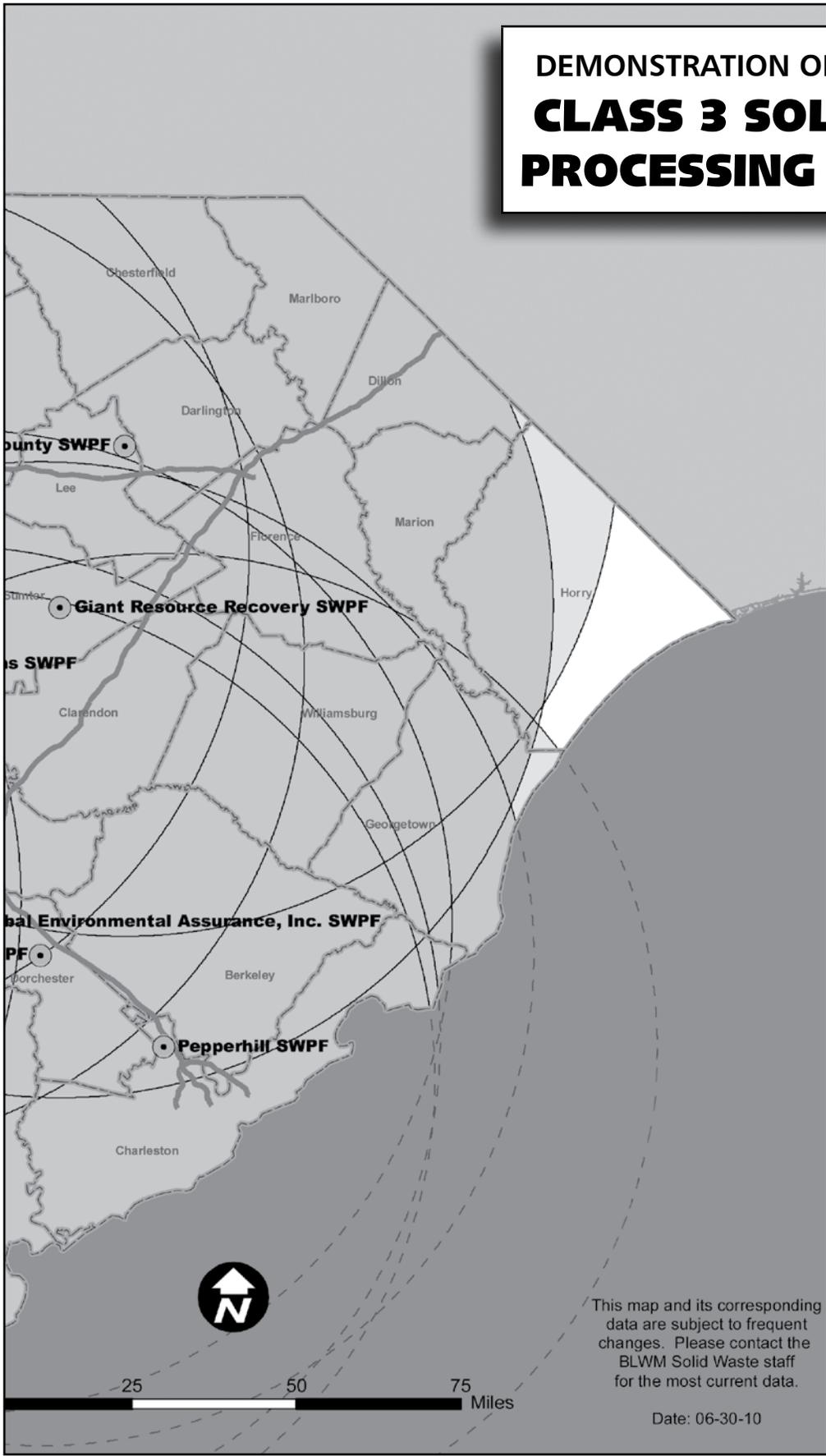
- Requires waste characterization through the Special Waste Analysis and Implementation Plan.
- Requirement to inspect 10 percent of incoming loads.
- Landfills that were permitted as ISW Class II Landfills prior to the effective date of this regulation are exempt from design criteria provided the waste streams remain below 30 times the MCLs.
- Leachate recirculation allowed under permit modification.
- Buffers established when "Notice of Intent to File a Permit Application" is published.
- Notification required within 72 hours of receipt of hazardous or PCB wastes.
- Monofills that accept coal combustion by-products testing less than 10 times MCL can be constructed with a clay liner system.
- Minimum factor safety against failure based on soil type.
- Certification testing of cap to include:
  - One permeability test per acre ; and
  - Four density/ thickness tests per acre.

This map and its corresponding data are subject to frequent changes. Please contact the BLWM Solid Waste staff for the most current data.

SOURCE: [www.scdhec.gov/environment/lwm/regs/R61-107-19.pdf](http://www.scdhec.gov/environment/lwm/regs/R61-107-19.pdf)



# DEMONSTRATION OF NEED MAP FOR **CLASS 3 SOLID WASTE PROCESSING FACILITIES**





# FULL-COST DISCLOSURE

More than \$311 million were spent on solid waste services in fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010). County and local governments that provide solid waste services to residents are required by the S.C. Solid Waste Policy and Management Act of 1991 to report the cost per person (per capita) for those services.

This requirement is known as full-cost disclosure. It is defined as the local government's total cost for operating a solid waste program. Costs reported include expenditures for all activities related to collecting, disposing of and recycling solid waste. Examples include labor, contracts, employee benefits, capital expenditures and costs associated with the construction, operation and closure of disposal facilities. The revenue generated from the sale of recyclables (that may offset some of these costs) also is reported.

The purpose of full-cost disclosure is to assist local governments in assessing their true costs for providing solid waste services and to help decision makers plan for solid waste management in both the short and long terms.

All local governments that provide solid waste services must complete and submit a full-cost disclosure report to the S.C. Department of Health and Environmental Control (DHEC) annually for the previous FY. They also must publish the information in a local newspaper. Full-cost reports from 200 counties and municipalities were received for FY10.

Table 9.1 (pages 78-81) reflects the cost for each local government solid waste program. The annual cost for providing solid waste services in South Carolina during FY10 ranged from \$6.76 per person to \$768.11 per person. In comparison, local governments reported spending between \$3.57 per person and \$702.47 per person in FY09. The average per capita cost for solid waste services in FY10 was \$68.12 – a \$4.47 decrease from FY09.

When comparing solid waste costs between different local governments, it is important to remember that solid waste services can vary widely from county to county or city to city. For example, some local governments offer curbside collection, which is more expensive than drop-off collection, but offers a higher level of service to residents, helps prevent illegal burning or dumping of household garbage as well as may increase participation in recycling programs.

Other local governments also may manage commercial collection and disposal, resulting in wide cost variances. Finally, counties or cities that operate landfills may have lower contract costs and avoid paying tipping fees, but have larger capital expenditures, labor costs and report debt over a long period of time.

In short, those wishing to compare local program costs need to consider many factors in addition to the expenses and revenues included in full-cost disclosure reports.

**TABLE 9.1: Full-Cost Disclosure**

COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA	COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA
Abbeville	Abbeville	\$595,711.00	5,840	\$102.01	Berkeley	County of	\$11,039,655.00	173,498	\$63.63
	Calhoun Falls	\$145,713.84	2,303	\$63.27		Goose Creek	\$1,461,667.67	39,088	\$37.39
	County of	\$911,222.00	25,098	\$36.31		Hanahan	\$828,452.26	15,500	\$53.45
	Due West	\$18,660.00	1,209	\$15.43		Moncks Corner	\$333,246.00	7,266	\$45.86
Aiken	Aiken	\$3,981,710.00	30,000	\$132.72	Calhoun	Cameron	\$6,971.42	449	\$15.53
	County of	\$4,455,773.00	156,017	\$28.56		County of	\$689,089.00	14,621	\$47.13
	Jackson	\$138,522.15	1,625	\$85.24		—	—	—	—
	Monetta	\$6,179.50	220	\$28.09	Charleston	Charleston	\$5,966,397.00	106,712	\$55.91
	N. Augusta	\$2,389,725.00	20,131	\$118.71		County of	\$37,438,459.00	355,276	\$105.38
	Salley	\$25,004.00	410	\$60.99		Folly Beach	\$551,721.00	2,260	\$244.12
	Wagener	\$45,360.55	863	\$52.56		Isle of Palms	\$1,306,741.00	4,583	\$285.13
Allendale	County of	\$187,149.00	10,195	\$18.36		James Island PSD*	\$1,938,386.00	22,700	\$85.39
	—	—	—	—		Kiawah Island	\$893,314.00	1,163	\$768.11
	—	—	—	—		McClellanville	\$27,000.00	459	\$58.82
Anderson	Anderson	\$1,520,364.00	26,242	\$57.94	Mt. Pleasant	\$4,036,310.00	66,418	\$60.77	
	Belton	\$195,543.40	4,461	\$43.83	N. Charleston	\$5,655,998.00	97,601	\$57.95	
	County of	\$4,702,384.00	184,901	\$25.43	N. Charleston District	\$284,020.00	3,220	\$88.20	
	Honea Path	\$244,641.00	3,504	\$69.82	Sullivans Island	\$151,349.64	1,910	\$79.24	
	Pelzer	\$35,025.00	2,000	\$17.51	Cherokee	Blacksburg	\$165,410.00	1,880	\$87.98
	Pendleton	\$247,177.16	2,966	\$83.34		County of	\$1,845,370.00	54,714	\$33.73
	Williamston	\$332,908.46	3,791	\$87.82		Gaffney	\$942,992.00	12,968	\$72.72
Bamberg	Bamberg	\$327,534.00	3,733	\$87.74	Chester	Chester	\$847,175.00	6,476	\$130.82
	County of	\$921,241.00	15,005	\$61.40		County of	\$1,574,389.00	32,410	\$48.58
	Denmark	\$111,312.00	3,281	\$33.93		Great Falls	\$276,538.00	2,184	\$126.62
Barnwell	Barnwell	\$238,363.00	5,035	\$47.34	Chesterfield	Cheraw	\$600,130.00	5,524	\$108.64
	Blackville	\$119,892.15	2,973	\$40.33		Chesterfield	\$233,035.03	1,326	\$175.74
	County of	\$665,756.00	22,688	\$29.34		County of	\$475,961.00	43,037	\$11.06
	Snelling	\$16,046.00	246	\$65.23		Jefferson	\$45,595.00	704	\$64.77
	Williston	\$171,974.00	3,307	\$52.00		McBee	\$56,000.70	714	\$78.43
Beaufort	Bluffton	\$702,583.00	15,869	\$44.27	Pageland	\$286,368.00	2,521	\$113.59	
	County of	\$5,378,870.00	170,419	\$31.56	Patrick	\$25,162.00	350	\$71.89	
	—	—	—	—					

\* Public Service District

COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA	COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA
Clarendon	County of	\$1,646,887.00	32,988	\$49.92	Georgetown	Andrews	\$212,503.54	3,300	\$64.40
	Manning	\$682,196.00	4,025	\$169.49		County of	\$4,407,317.00	60,703	\$72.60
	Summerton	\$65,968.34	1,061	\$62.18		Georgetown	\$1,258,741.87	8,950	\$140.64
	Turbeville	\$40,097.00	721	\$55.61		Pawleys Island	\$13,533.00	150	\$90.22
Colleton	County of	\$3,076,523.47	39,246	\$78.39	Greenville	County of	\$8,510,101.00	451,428	\$18.85
	Edisto Beach	\$312,114.13	641	\$486.92		Fountain Inn	\$404,884.63	6,017	\$67.29
	Walterboro	\$750,838.00	5,739	\$130.83		Greater Greenville Sanitation Commission	\$10,243,064.00	102,159	\$100.27
Darlington	County of	\$2,152,891.00	66,445	\$32.40	Greenville	\$5,409,595.00	58,754	\$92.07	
	Darlington	\$727,630.00	6,720	\$108.28	Greer	\$962,789.01	25,775	\$37.35	
	Hartsville	\$1,004,533.00	7,473	\$134.42	Mauldin	\$1,507,105.00	22,263	\$67.70	
	Lamar	\$32,266.00	1,015	\$31.79	Simpsonville	\$705,554.00	18,500	\$38.14	
Dillon	County of	\$1,865,997.41	30,912	\$60.36	Greenwood	County of	\$2,809,881.00	69,671	\$40.33
	Dillon	\$514,818.00	6,300	\$81.72		Greenwood	\$1,379,209.00	22,170	\$62.21
	Lake View	\$52,429.01	789	\$66.45		Hodges	\$7,536.00	158	\$47.70
	Latta	\$88,956.16	1,410	\$63.09		Ware Shoals	\$149,240.82	2,363	\$63.16
Dorchester	County of	\$5,223,422.00	130,417	\$40.05	Hampton	Brunson	\$32,232.84	563	\$57.25
	Harleyville	\$29,838.00	654	\$45.62		County of	\$1,272,618.00	21,014	\$60.56
	Ridgeville	\$24,000.00	1,717	\$13.98		Hampton	\$501,193.00	2,887	\$173.60
	St. George	\$45,501.24	2,092	\$21.75		Varnville	\$157,109.00	2,077	\$75.64
	Summerville	\$2,717,571.00	45,000	\$60.39		Aynor	\$99,695.00	587	\$169.84
Edgefield	County of	\$973,076.00	25,752	\$37.79	Briarcliff Acres	\$39,930.00	520	\$76.79	
	Edgefield	\$315,658.00	5,059	\$62.40	Conway	\$1,525,195.00	16,000	\$95.32	
	Johnston	\$152,570.00	2,460	\$62.02	County of (SWA*)	\$6,859,869.00	237,690	\$28.86	
Fairfield	County of	\$1,780,916.45	23,343	\$76.29	County of (UCS**)	\$5,807,872.00	174,556	\$33.27	
	Winnsboro	\$637,902.00	3,671	\$173.77	Myrtle Beach	\$4,143,123.00	30,596	\$135.41	
Florence	—	—	—	—	N. Myrtle Beach	\$3,342,811.00	13,459	\$248.37	
	Coward	\$13,091.04	650	\$20.14	Surfside Beach	\$1,066,560.00	5,608	\$190.19	
	County of	\$4,072,652.00	134,208	\$30.35					
	Florence	\$3,569,260.00	30,248	\$118.00					
	Johnsonville	\$97,715.00	1,421	\$68.76					
	Lake City	\$1,367,977.00	6,478	\$211.17					
	Pamplico	\$108,746.00	1,139	\$95.47					
Quinby	\$48,705.77	842	\$57.85						

\* Solid Waste Authority \*\* Unincorporated Collection System

COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA	COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA
Jasper	County of	\$652,987.00	23,221	\$28.12	McCormick	County of	\$370,683.00	10,140	\$36.56
	—	—	—	—		McCormick	\$97,531.00	2,659	\$36.68
Kershaw	Camden	\$1,040,215.00	6,682	\$155.67		—	—	—	—
	County of	\$1,972,299.00	60,042	\$32.85	Newberry	County of	\$1,337,314.00	38,763	\$34.50
	Elgin	\$50,385.18	806	\$62.51		Newberry	\$625,244.00	10,580	\$59.10
—	—	—	—	Whitmire		\$132,786.50	1,512	\$87.82	
Lancaster	County of	\$2,086,542.00	77,767	\$26.83	Oconee	County of	\$3,049,099.00	71,514	\$42.64
	Kershaw	\$169,943.00	1,645	\$103.31		Seneca	\$652,384.00	7,652	\$85.26
—	—	—	—	Walhalla		\$485,970.00	3,503	\$138.73	
Laurens	Clinton	\$570,637.00	8,091	\$70.53		Westminster	\$369,796.00	2,743	\$134.81
	County of	\$1,867,889.00	70,045	\$26.67	Orangeburg	County of	\$4,445,400.00	90,112	\$49.33
	—	—	—	—		Bowman	\$46,926.00	1,198	\$39.17
Lee	County of	\$241,011.00	19,722	\$12.22		North	\$40,642.32	813	\$49.99
	—	—	—	—		Norway	\$18,595.20	350	\$53.13
Lexington	Batesburg-Leesville	\$247,000.00	5,517	\$44.77		Orangeburg	\$818,108.00	13,502	\$60.59
	Cayce	\$720,876.00	12,500	\$57.67		Pickens	Central	\$185,708.00	3,522
	County of	\$6,897,556.00	255,607	\$26.99	Clemson		\$1,221,212.00	12,174	\$100.31
	Irmo	\$207,351.00	3,864	\$53.66	County of		\$2,478,701.00	118,144	\$20.98
	Lexington	\$660,621.00	14,793	\$44.66	Easley		\$1,149,297.69	17,250	\$66.63
	Swansea	\$38,031.14	750	\$50.71	Liberty		\$331,652.00	3,009	\$110.22
	West Columbia	\$1,678,553.00	13,264	\$126.55	Norris		\$15,341.06	947	\$16.20
Marion	County of	\$1,567,121.00	33,468	\$46.82	Pickens		\$286,366.00	3,012	\$95.08
	Marion	\$737,479.80	7,042	\$104.73	Six Mile	\$14,963.33	585	\$25.58	
	Mullins	\$991,755.48	5,024	\$197.40	Richland	Arcadia Lakes	\$108,240.00	863	\$125.42
	Sellers	\$4,632.00	277	\$16.72		Columbia	\$9,159,279.00	116,278	\$78.77
Marlboro	Bennettsville	\$1,153,524.00	9,425	\$122.39		County of	\$22,180,694.00	372,023	\$59.62
	Clio	\$52,841.00	932	\$56.70		Forest Acres	\$1,461,623.00	10,558	\$138.44
	County of	\$194,628.00	28,783	\$6.76	Irmo	\$385,081.00	7,175	\$53.67	
	Tatum	\$3,865.00	69	\$56.01					

COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA	COUNTY	LOCAL GOVERNMENT	TOTAL NET COST	POPULATION	COST PER CAPITA
Saluda	County of	\$374,658.00	19,094	\$19.62	Union	Carlisle	\$23,400.00	492	\$47.56
	Ridge Spring	\$50,386.50	860	\$58.59		County of	\$704,728.00	27,362	\$25.76
	Saluda	\$334,629.00	3,066	\$109.14		Jonesville	\$67,200.00	982	\$68.43
Spartanburg	Campobello	\$6,266.00	469	\$13.36		Lockhart	\$44,550.75	620	\$71.86
	Central Pacolet	\$14,400.00	267	\$53.93		Union	\$537,689.00	8,793	\$61.15
	Chesnee	\$46,894.00	1,039	\$45.13		Williamsburg	County of	\$1,084,672.00	34,445
	County of	\$5,022,985.00	286,822.00	\$17.51	Hemingway		\$55,000.00	563	\$97.69
	Cowpens	\$79,864.00	2,279	\$35.04	Kingstree		\$450,199.57	3,496	\$128.78
	Duncan	\$134,069.00	3,228	\$41.53	—		—	—	—
	Inman	\$77,831.52	1,884	\$41.31	York		Clover	\$442,979.00	4,014
	Landrum	\$128,045.00	2,500	\$51.22		County of	\$8,706,286.00	227,003	\$38.35
	Pacolet	\$108,874.00	2,690	\$40.47		Fort Mill	\$495,063.00	10,200	\$48.54
	Spartanburg	\$3,469,112.00	39,673	\$87.44		Rock Hill	\$5,761,691.00	69,210	\$83.25
Woodruff	\$427,162.00	4,224	\$101.13	Tega Cay		\$552,862.00	7,500	\$73.71	
Sumter	County of	\$4,995,175.00	104,495	\$47.80		York	\$883,799.00	12,413	\$71.20
	Pinewood	\$44,555.95	512	\$87.02	<b>STATE TOTAL</b>	<b>\$311,738,812.61</b>	<b>4,576,446</b>	<b>\$68.12</b>	
	Sumter	\$1,466,548.00	40,399	\$36.30					



# PERMITTED SOLID WASTE FACILITIES

In fiscal year (FY) 2010 (July 1, 2009 to June 30, 2010), there were 388 permitted solid waste facilities in South Carolina. These permits apply to facilities that include – but are not limited to – landfills, transfer stations and processing facilities. Tables 10.2 to 10.8 (on the following pages) reflect a complete listing of solid waste permits at the close of FY10. It includes (when available):

- the name of the county in which the facility is located;
- the facility name;
- the permitted disposal rate; and
- the tons received.

The legend – Table 10.1 – should be used when referring to Tables 10.2 through 10.8.

**TABLE 10.1: Permitted Amount Legend**

<b>CYPY</b>	Cubic Yards Per Year
<b>GPY</b>	Gallons Per Year
<b>TPA</b>	Tons Per Acre
<b>TPD</b>	Tons Per Day
<b>TPM</b>	Tons Per Month
<b>TPY</b>	Tons Per Year

**TABLE 10.2: Permitted Solid Waste Landfills and Transfer Stations in FY10**

COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE	TONS RECEIVED	COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE	TONS RECEIVED
<b>CLASS 1 LANDFILLS</b>				Laurens	H.R. Garrett, Inc. (Henderson Road)	20,000 TPY	490
Abbeville	City of Abbeville	1,100 TPY	0	Lexington	378 Recycling	100,000 TPY	3,305
Abbeville	Ron Hughes	10,000 CYPY	105	Lexington	S&T Grading	25,000 TPY	0
Abbeville	G.L. Williams	500 TPY	*	Lexington	Sligh Properties	100 TPY	30
Aiken	Gary Miller	20,000 TPY	7,434	Lexington	Southeastern Associates	11,600 TPY	3,802
Aiken	Jack Wood	520 TPY	26	Lexington	Sox and Sons Construction Company	1,500 TPY	0
Aiken	John Swearingen	1,000 TPY	218	Lexington	Town of Batesburg-Leesville	2,000 TPY	640
Aiken	MT Arthur Drive	15,000 TPY	1,665	McCormick	Town of McCormick	36 TPY	0
Aiken	Randy Hill	4,800 TPY	444	Newberry	Alex Metts	3,000 TPY	0
Anderson	Anderson County (Starr)	26,000 TPY	22,284	Oconee	Clemson-Seneca	3,000 TPY	202
Anderson	Broadway	860 TPD	677	Oconee	Northwest Grading Company	600 TPY	10
Anderson	City of Belton	3,060 TPY	1,200	Oconee	Wells Highway	15,000 TPY	930
Anderson	Miller Construction Company	15,000 CYPY	66	Oconee	Wood	8,000 CYPY	45
Edgefield	Eugene Easler	359 TPY	*	Orangeburg	Spires	9,000 TPY	0
Edgefield	Pioneer Clearing	20,000 TPY	5,365	Pickens	Martin	10,370 TPY	0
Florence	Town of Timmonsville	30 TPM	0	Pickens	R. Crawford/Stewart's Grading	3,000 TPY	175
Greenville	Norris	250 TPY	0	Pickens	Walter Moody	625 TPY	0.03
Greenville	Trotter	100 TPY	*	Richland	Sharpe's Contracting Services	75 TPY	0
Greenwood	BHC Trucking	6,500 TPY	1,065	Richland	Loveless & Loveless Screaming Eagle Road	30,000 TPY	8,965
Jasper	Jasper County	10,000 TPM	211				
Lancaster	Heath Springs, Town of	—	0				
Lancaster	Lancaster County	3,500 TPY	435				

\*Facility Did Not Report *Continued on the following page*

COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE	TONS RECEIVED	COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE	TONS RECEIVED
Richland	Billy Meetz	—	0	Cherokee	Cherokee County	800 TPD	48,406
Saluda	Goff	40,000 CYPY	714	Chester	Chester County	200 TPD	16,628
Spartanburg	Brown	3,000 TPY	266	Clarendon	Clarendon County	250 TPD	0
Spartanburg	City of Woodruff – Landford Rd.	488 TPY	60	Colleton	Colleton County	115 TPD	13,711
Spartanburg	Cliffdale Road	150,000 TPY	450	Darlington	Darlington County	95 TPD	33,055
Spartanburg	Hawkins Grading	6,000 TPY	80	Dillon	Dillon County	250 TPD	21,608
Spartanburg	Howard Grading and Construction	1,000 TPY	13	Dorchester	Town of Summerville	200 TPD	0
Spartanburg	Jeff Thomas	50 TPW	0	Edgefield	Tri-County	320 TPD	30,102
Spartanburg	Jimmy Wilson Construction (Hunsinger Site)	3,000 TPY	30	Fairfield	Fairfield	320 TPD	16,321
Spartanburg	Jimmy Wilson Construction (Skinner Site)	10,000 TPY	111	Florence	Florence	740 TPD	111,460
Spartanburg	PAR Grading & Hauling	2,600 TPY	105	Greenville	City of Greenville	40,000 TPY	15,217
Spartanburg	Watson	3,000 TPY	100	Greenville	City of Greer	150 TPY	5,747
Union	City of Union	2,400 TPY	2,220	Greenville	Greenville County	150 TPD	3,306
York	City of Rock Hill	100 TPW	0	Horry	City of Myrtle Beach	249,462 TPY	19,376
York	Clawson	50,400 CYPY	600	Horry	City of North Myrtle Beach	250 TPD	11,590
York	Creekside of York County	5,500 TPY	284	Lancaster	City of Lancaster	302,000 TPY	23,648
York	McCall Deer Creek Drive	100,000 CYPY	797	Laurens	Laurens County	800 TPD	27,888
<b>CLASS 2 LANDFILLS</b>				Lexington	Lexington County	600 TPD	113,973
A complete list of Class 2 facilities can be found in Table 7.14 on page 63.				Marlboro	City of Bennettsville	50 TPD	7,302
<b>CLASS 3 LANDFILLS</b>				Newberry	Newberry County	400 TPD	32,723
A complete list of Class 3 facilities can be found in Table 7.7 on page 54.				Oconee	Oconee County	300 TPD	34,101
<b>TRANSFER STATIONS</b>				Orangeburg	Orangeburg County	300 TPD	58,023
Anderson	Anderson-Oconee	1,500 TPD	11,602	Pickens	Pickens County	400 TPD	39,605
Anderson	Pendleton	500 TPD	25,009	Spartanburg	Broadcast Drive	140 TPY	9,755
Bamberg	Bamberg County	250 TPD	13,963	Spartanburg	City of Spartanburg	200 TPD	4,888
Barnwell	Barnwell County	200 TPD	15,335	Spartanburg	Greer	1,200 TPD	51,557
Beaufort	Haig Point	15 TPD	239	Sumter	Sumter County	400 TPD	57,047
Beaufort	Melrose	15 TPD	29	Union	City of Union	21 TPD	3,522
Charleston	Town of Mount Pleasant	100 TPD	21,373	York	Container Company of Carolina (Fort Mill)	1,200 TPD	28,847
				York	York County	800 TPD	118,952

**TABLE 10.3: Permitted Solid Waste Processors in FY10**

COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE	COUNTY	FACILITY NAME	PERMITTED DISPOSAL RATE
Aiken	North Augusta Regional Material Recovery Facility	250 TPD	Dorchester	Vexor Technology	150,000 TPY
Aiken	Three Rivers Solid Waste Authority	900 TPD	Greenville	Fennell Container	1,200 TPD
Anderson	ACE Recycling	10,400 TPY	Greenville	VLS Recovery Systems	90,000 TPY
Calhoun	Regulatory Solutions (Pascon)	10,000 TPY	Greenville	Waste Corporation America	1,200 TPD
Colleton	American Bio-Mass	9,170 TPY	Lee	Lee County	450 TPD
Colleton	CMEG, Inc.	5,200 TPY	Lexington	Crandall Corporation	2,491 TPY
Dillon	Nobles Corporation	4,368 TPY	Spartanburg	220 Victor Hill	150 TPD
Dorchester	Global Environmental Assurance, Inc.	5,100 TPY	Spartanburg	JBR Environmental Services	52,000 TPY
Dorchester	Pepperhill	1,200 TPD	Sumter	Giant Resource Recovery, Sumter	104,000 TPY

**TABLE 10.4: Permitted Composting and Wood Grinding Facilities in FY10**

COUNTY	FACILITY NAME	TONS RECEIVED	COUNTY	FACILITY NAME	TONS RECEIVED
<b>COMPOSTING/GRINDING</b>			Lexington	Carolina Materials Wood Waste Processing	8,618
Aiken	421 Composting Site (G.L. Williams)	207	Lexington	Lexington County	1,310
Aiken	APAC Composting (G.L. Williams)	90	Marion	City of Marion Composting	*
Aiken	City of Aiken CF	20	Marlboro	Marlboro County Composting	0
Allendale	Town of Allendale CF	*	Marlboro	McDuffie & Son Composting	540
Anderson	City of Anderson CF	750	Newberry	City of Newberry Composting and Shredding	320
Anderson	Honea Path YT & Debris CF	*	Newberry	Newberry County Composting	4,015
Berkeley	Berkeley County CF	17,279	Richland	City of Columbia Composting	7,625
Charleston	Barr Construction Wood Grinding	6,641	Richland	Fort Jackson Compost	0
Charleston	Charleston County CF	49,763	Richland	Mitch Hook Wood Composting	*
Charleston	Spring Grove Environmental North Charleston CF	0	Spartanburg	City of Spartanburg Hwy. 295 Composting	0
Charleston	Sunnyside Farms Composting	167	Spartanburg	Wellford LF Composting	10,890
Cherokee	Cherokee County Composting	1,201	Sumter	S.C.R. Composting	7,901
Chester	City of Chester Composting	0	Williamsburg	Black River Composting	0
Chester	Scott/Hyponex Composting	45,000	Williamsburg	Town of Hemingway Composting	105
Chester	Town of Great Falls	0	York	City of Fort Mill Composting	2,214
Dillon	Town of Latta Composting	676	York	City of Rock Hill Composting (Friedheim Rd.)	5,626
Florence	City of Florence Composting	5,876	York	Deer Creek Composting	0
Georgetown	Frasier Composting	0	York	River Hills Community Association Composting	2,952
Georgetown	Georgetown County LF Composting	5,547	York	Rogers Composting	0
Greenville	Greenville County Mulching (Enoree LF Composting)	0	York	York County Wood Chipping	3,512
Hampton	Hampton County Composting	1,694	<b>WOOD GRINDING FACILITIES</b>		
Horry	C. Owens & Son, Inc. Composting	0	Anderson	Fowler Corporation Wood Chipping Facility	206
Horry	Coastal Reclamation Composting	*	Anderson	Willimon's Mulch Wood Chipping Facility	768
Horry	G&G Mining Company LLC Composting	144	Beaufort	LCR Construction	56,364
Horry	Holmes Composting	0	Beaufort	Barnwell Resources, Inc. Land Clearing	776
Horry	Horry County Composting	35,563	Beaufort	Hilton Head Plantation P.O.A. Wood Chipping	50
Horry	P-Mining Composting	0	Beaufort	Community Associates	21,300
Horry	Sunway Environmental Inc.	*	Charleston	Burning Acres Composting & Shredding	0
Horry	White & Son, Inc. Composting	0	Charleston	Ladson Wood Recycling	*
Jasper	Evergreen Tree & Turf Care Wood Chipping Facility	14,064	Charleston	Moberry LCD Wood Chipping	*
Kershaw	Kershaw County Yard Waste Composting	6,227	Dillon	Nobles Corporation Wood Chipping	0
Lancaster	Gupton Composting	0	Dorchester	Carolina Landfill	4,776
Lancaster	Lancaster County Yard Waste Composting	435	Dorchester	Coastal Mulch & Composting Wood Chipping Facility	*
Lancaster	Piedmont Composting	0	Fairfield	Kaiser Enterprises, Inc. Wood Grinding	8,433
Lancaster	Pressley Wood Chipping Facility	1,212			
Lancaster	Town of Heath Springs Composting	0			
Laurens	Laurens County Composting	198			
Lee	Lee County Composting and Recycling	4,112			

\*Facility Did Not Report *Continued on the following page*

COUNTY	FACILITY NAME	TONS RECEIVED	COUNTY	FACILITY NAME	TONS RECEIVED
Florence	Rutland Wood Chipping Facility	225	Jasper	Oakwood C&DLF Wood Grinding	0
Georgetown	McKenzie Wood Chipping	640	Jasper	R&D Tree Wood Chipping Facility	750
Georgetown	Miller Wood Processing Facility	653	Laurens	Riverside Stump Dump Wood Chipping	0
Greenville	Dillard Excavating Wood Chipping Center	88	Lexington	Eagle Recovery Wood Grinding	8,441
Greenville	Greater Greenville Sanitation Commission	43,526	Lexington	S&T Grading & Excavating Wood Chipping Facility	0
Greenville	Greenville Wood Waste Recycling II	7,723	Lexington	S&T Grading Wood Processing Facility	1,800
Greenville	Schneider Tree Care Wood Chipping Facility	7,590	Lexington	S&T Recycling Wood Processing Facility	4,950
Greenville	Southern Grading I Site	16,290	Marion	Marion County Wood Chipping and Composting Facility	0
Greenville	Southern Grading II Site	435	Newberry	Metts Wood Recycling	4,613
Greenville	Southern Grading III Site	4	Oconee	Seneca Mulching Facility	5,188
Greenville	S.R. Mulch & Wood Grinding Facility	5,969	Pickens	Brown's Landscaping Mulch Facility	*
Greenville	Timbertech	1,826	Pickens	City of Clemson Brush RC	8,680
Greenville	Twin Chimneys Wood Chipping Facility	6,408	Richland	Richland County	0
Greenville	Vanport LCD Recycling Facility	*	Saluda	SH Wood Waste Management	1,564
Greenville	WCA Shiloh Wood Processing Facility	146	Spartanburg	Spartanburg Wood Recycling	21,507
Hampton	Town of Yemassee Shredding Facility	0	Spartanburg	Henson's Mulch & More Wood Chipping Facility	3,992
Horry	Dixie Recycling, LLC	3,093	Spartanburg	Starr Holdings	1,981
Horry	S&B Turf & Mulch Wood Chipping Facility	3,000	Sumter	Sumter County Wood Processing Facility	11,325
Jasper	Cleland Ridgeland Wood Chipping Facility	349	York	Callahan Grading Wood Chipping Facility	0

\*Facility Did Not Report

**TABLE 10.5: Permitted Waste Tire Facilities in FY10**

COUNTY	FACILITY NAME	STORAGE LIMIT
<b>WASTE TIRE COLLECTORS</b>		
Charleston	Gerald's Tires WTC Facility	5,200 Tires
Cherokee	Cherokee County Recycling WTC	1 Trailer
Dorchester	Lafarge WTC Facility	100 Trailers
Greenville	Enoree Phase II MSWLF WTC	8,000 Tires
Greenville	Twin Chimneys WTC	3 Trailers
<b>WASTE TIRE DISPOSAL FACILITY</b>		
Anderson	Anderson Tire WTD Facility	—
<b>WASTE TIRE PROCESSORS</b>		
Aiken	Three Rivers Tire Processing	150,000 Whole Tires
Berkeley	Rubber Recovery, Inc.	307 Tons
Charleston	Tower Waste Tire Processing	5 Trailers
Clarendon	East Coast Industrial Services, Inc.	20,000 Tons
Edgefield	Ridge Recyclers WTP	—
Greenville	Rubber Recycling Technologies, LLC	60 Tons
Marion	Venture Manufacturing Company WTP	800 Tires
Pickens	Pickens County Recycling Department	2,000 Tires
Sumter	Kiln Direct Waste Tire Processing Facility	400 Tons

**NOTE:** For a list of registered waste tire haulers, please contact DHEC at 1-800-768-7348.

**TABLE 10.6: Permitted Solid Waste Incinerators in FY10**

COUNTY	FACILITY NAME	PROCESS/ STORAGE LIMIT	TONS RECEIVED
Beaufort	Daufuskie Site Preparation, Inc.	3,611 CY	598
Beaufort	Ulmer Brothers, Inc.	Not in Permit	1,553
Charleston	Montenay Charleston Resource Recovery	255,500 TPY	69,215
Jasper	Coastal Debris Company	1,000 Tons	455
Jasper	Malphrus Construction Company	315 Tons	0
Jasper	Greenspace, Inc.	2,285 CY	0
Pickens	Pickens County	105 TPD	4,175
Richland	Whitaker	2,407 CY	0

**TABLE 10.7: Permitted Used Oil Facilities in FY10**

COUNTY	FACILITY NAME	PERMITTED LIMIT
<b>USED OIL MARKETERS</b>		
Charleston	Banks Construction Company	600,000 GPY
Dorchester	Universal Environmental Services LLC	333,700 GPY
Orangeburg	Holcim	49,000 TPY
Sumter	Giant Resource Recovery	—
York	Atlantic Oil Collection Services, Inc. (DBA Atlantic Industrial Services)	—
<b>USED OIL PROCESSORS</b>		
Charleston	Banks Construction Company	600,000 GPY
Dorchester	Universal Environmental Services LLC	333,700 GPY
Greenville	Holston Group, Inc. UOP	150,000 TPY
Greenville	VLS Recovery Systems UOP	8,320,000 GPY
Spartanburg	Taylor Enterprises, Inc. UOP	500,000 GPY
Sumter	Giant Resource Recovery	104,000 TPY
York	Diversified Recycling, Inc. UOP	2,000,000 GPY

**TABLE 10.8: Other Permitted Solid Waste Facilities in FY10**

COUNTY	FACILITY NAME	PERMITTED LIMIT
<b>LAND APPLICATION</b>		
Charleston	DiMare's	—
Charleston	Wood Not Waste	5 TPA
Darlington	International Paper	—
Georgetown	International Paper	10 TPA
Lancaster	Bowers Fibers	10 TPA
Laurens	Country Fresh	10 TPA
Laurens	Norbord Ash	10 TPA
Marlboro	Domtar Paper Company, LLC	10 TPA
Orangeburg	Council Energy	10 TPA
Richland	Mungo Homes	—
<b>RESEARCH, DEVELOPMENT &amp; DEMONSTRATION PROJECT</b>		
Lexington	Refresh Services	224 CYPY
Williamsburg	ARC Technology Plasma Enhanced Melter Facility	14,924 TPY
<b>SOIL TREATMENT</b>		
Sumter	TK Tank Services	20,000 TPY

## SECTION 11

# INDEX

### A

advanced recycling fee(s) – 20  
aluminum – 14-15, 24, 32  
annual permitted capacity – 67  
antifreeze – 5, 11, 22-23, 28-29, 33  
appliances – 5-6, 11, 14, 20-21, 28-29, 33, 35

### B-C

banned items – 1, 5, 11, 20-21, 33, 35-50  
buying recycled – 27-29  
cardboard – 6, 16-17, 28-29, 32  
Class 1 landfill – 3, 51-52, 61-62, 83  
Class 2 landfill – 3, 51-53, 61, 63, 66-67, 71, 84  
Class 3 landfill – 3, 16, 20, 51-52, 53-58, 61, 66-67, 73, 84,  
commercial – 5-6, 18, 24, 31-33, 37-50, 66-77,  
commingled – 9-10, 18-19, 24, 29, 33, 35-36  
commodity(ies) – 1, 5-6, 9-22, 18, 24, 28-29, 32-50  
composting – 7-10, 20, 85-86  
colleges/universities (recycling data) – 1, 27, 29, 31  
construction and demolition (C&D) debris – 1, 6, 28-29, 52, 58-59, 51, 66  
cooking oil – 5, 11, 22-23, 28-29, 33  
curbside recycling programs – 25-50

### D-E

demonstration of need (DON) – 1-2, 66-69, 71, 73, 75  
DHEC – see *S.C. Department of Health and Environmental Control*  
disposal – 1-10, 7-10, 20, 31, 34, 51-52, 54-60, 61-69, 71, 77, 83-84, 86  
disposal goal – 1-2, 4-5, 31, 51  
do-it-yourself (DIY) oil changer(s) – 20-21, 25-26  
drop-off collection program(s) – 20, 31  
drop-off recycling centers – 20, 35-50  
electronics – 1, 5-9, 11, 22-23, 28-29, 31-33  
energy recovery – 51  
EPA – see *U.S. Environmental Protection Agency*  
estimated remaining life – 54, 63  
export(ed) – 1, 31, 52-53, 57-59, 61

### F-G

fluorescent bulbs – 5, 11, 22-23, 28-29, 33  
food scraps – 5-6, 11, 22-23, 28-29, 33  
full-cost disclosure – 1, 77-78  
furniture – 5, 11, 28-29, 32

generation rate – 31, 34, 52, 60  
glass – 5, 11-13, 24, 28-29, 31-32, 35-50  
goals – 1-2, 5, 7, 9, 27  
greenhouse gas emissions – 8

### H-K

hazardous household materials – 5, 11, 22  
HDPE – 18-19, 26, 28-29, 33  
import(ed) – 52-53  
incinerate(ed) – 1, 5, 20, 31, 58-59, 61, 66  
incinerator(s) – 3, 5-7, 20, 51-52, 58, 61, 66-67, 87  
industrial – 1, 3, 6, 16, 24, 31-33, 35-56, 58-59, 63-64, 67, 86-87  
industrial process waste – 5-6, 58-59  
industrial solid waste (ISW) – 1, 3, 5, 52, 67

### L-M

land-clearing debris (LCD) – 1, 3, 5-6, 51, 66  
landfill(s) – 1-3, 5-8, 20, 31, 51-59, 61-63, 65-67, 71, 73, 77, 83-85  
landfill capacity – 2, 71  
landfill disposal – 8, 20, 55, 62-63  
LDPE – 18-19, 28-29, 33  
lead-acid batteries – 5, 11, 20-21, 28-29, 33  
magazines – 16-17, 28-29, 32  
market(s) – 9, 11-12, 14, 16, 18, 24, 26  
market prices – 11-12, 14, 16, 18  
mattresses – 5, 11, 22-23, 33  
metal – 5, 11, 14-15, 26, 28-29, 31-32, 35-50  
miscellaneous items – 5, 11, 22, 31, 33  
mixed paper – 16, 28-29, 32  
mixed recyclables – 5, 11, 24, 31, 33, 35-50  
motor oil filters – 5, 11, 23, 25-26, 33  
municipal solid waste (MSW) – 1, 3, 5, 7, 11-12, 14, 16, 18, 20, 24-25, 31-32, 34-52, 58-60, 68

### N-Q

newspaper – 6, 16, 28-29, 32, 77  
Office of Solid Waste Reduction and Recycling (Office) – 1, 25  
office paper – 6, 10, 16, 28-29, 32  
paint – 5, 11, 23, 28-29, 33  
paper – 5-6, 11, 16-17, 24, 27-29, 31-32, 35-50  
paperboard – 16, 28-29, 32  
PET (or PETE) – 18-19, 28-29, 33  
phone books – see *telephone books*  
planning – 3, 9, 65-67

plastic – 2, 5-6, 9, 11, 18-19, 24, 26-29, 31, 33, 35-50  
population – 3, 25, 31, 34, 60-61, 65, 78-81

### R

rechargeable batteries – 5, 11, 23, 28-29, 33  
recovered material processing facility – 11  
recycle(d) – 1-10, 12, 14, 16, 18, 20, 22-23, 25-29, 31-32  
recycled-content products – 27-29  
recycling – 1-20, 23-29, 31-32, 34-50, 52, 60-61, 65, 77  
recycling goal – 4-5, 9, 31  
recycling rate – 3-4, 6-7, 11-12, 14, 18, 24-25, 31  
regulation – 1-2, 65-69, 73  
residential – 6, 9, 14, 16, 18, 24, 31-33, 35-50

### S-T

S.C. Department of Health and Environmental Control (DHEC) – 1-3, 5-6, 25, 27, 31, 51, 55, 57, 61-63, 65, 68-69, 77, 83, 86  
S.C. Solid Waste Policy and Management Act of 1991 (Act) – 1-2, 5-7, 9, 25, 27, 51, 65, 77  
state agencies (recycling data) – 27-28, 31  
steel – 14, 26, 28-29, 32  
solid waste facilities – 1-2, 51, 65, 83, 87  
solid waste management – 1-2, 7, 9, 26-27, 51, 65-67, 77  
solid waste planning – 2, 9, 65  
transfer station(s) – 9, 51-52, 83-84  
telephone books – 16-17, 28-29, 32  
textiles – 5, 11, 23, 28, 33  
tipping fee(s) – 7, 52, 77  
tires – 5, 9, 11, 20-21, 28-29, 33, 58-59, 86  
toner cartridges – 5, 11, 22-23, 28-29, 33  
total solid waste (TSW) – 1-7, 51, 58-59, 61

### U-Z

U.S. Environmental Protection Agency (EPA) – 2, 6, 8, 12, 14,  
used motor oil – 5-6, 11, 20-21, 23, 25-26, 28-29, 31-33  
waste reduction – 2, 8, 10  
waste stream(s) – 22, 59, 61, 65, 71, 73  
wood packaging – 5, 11, 23, 33  
yard trimmings – 5-6, 11, 20-21, 28-29, 33, 66-67

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**C. Earl Hunter, Commissioner**