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# INTRODUCTION

Solid waste management is an essential process in protecting human health and the environment.

South Carolina addressed the issue with the passage of the comprehensive S.C. Solid Waste Policy and Management Act of 1991 (Act). The Act provides a wide-ranging outline for the state and local governments to follow in managing solid waste.

The Act, for example, authorizes the S.C. Department of Health and Environmental Control (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. 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’s solid waste management plan; and
- recommendations to the Governor and General Assembly for improving solid waste management.

This report, which reflects solid waste management activities in FY07 (July 1, 2006 to June 30, 2007), 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 (see page 6 for definition). TSW is comprised of MSW as well as construction and demolition debris, land-clearing debris and industrial solid waste.

The Act calls for each county to report the amount of MSW recycled within its jurisdictions and for each county 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, following national practices and trends, the state adopted the U.S. Environmental Protection Agency’s (U.S. EPA) focus on measuring MSW. Furthermore, the state adopted, with few exceptions, the U.S. EPA’s definition of MSW. As a result of this change, the state’s recycling and disposal goals are based on MSW.

The aspiration of the change to focus on MSW was to ultimately have consistent reporting throughout the country allowing, for example, states to compare programs "apple to apple." In short, the distinctions of TSW and MSW are important. Each definition allows for a specific snapshot of a particular type of waste. When reviewing the charts and tables on pages 3 and 4, those distinctions become clear.

Beyond presenting an overview of solid waste management in South Carolina, this report provides information that allows the state and local governments to plan for the safe and efficient management of solid waste.

Local governments, solid waste directors, recycling coordinators, solid waste planners and others should 1) know the amount of solid waste recycled and disposed of in their community, county or region; 2) measure the effectiveness of their recycling programs and disposal facilities; 3) anticipate projected MSW landfill capacity and other future needs; and 4) encourage and promote recycling efforts in their community. In short, this report tells us where we are now and provides us a tool to plan for the future.

## About this Report

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# CONSTRUCTION & DEMOLITION DEBRIS

Construction and demolition (C&D) debris is defined in the S.C. Solid Waste Policy and Management Act of 1991, Section 44-96-40, as "discarded solid waste resulting from construction, remodeling, repair and demolition of structures, road building and land clearing." The debris includes, but is not limited to, "bricks, concrete and other masonry materials, soil, rock, lumber, road spoils, paving materials, and tree and brush stumps, but does not include solid waste from agricultural or silvicultural operations."

As mentioned previously, C&D debris is not included in the state's definition of municipal solid waste (MSW) nor the measured MSW recycling rate. The impact of C&D debris, however, is substantial due to its weight as well as its volume.

C&D debris is a significant part of the total solid waste (TSW) generated in South Carolina. In fact, the 3,645,414 tons of C&D debris generated in fiscal year (FY) 2007 (July 1, 2006 to June 30, 2007) represented more than 21 percent of the TSW stream. In addition, the amount of C&D debris in the state has increased nearly 70 percent since FY03. This increase is roughly twice the 33 percent increase in the amount of TSW generated over the same time.

In FY07, 34 percent of the C&D debris generated in South Carolina was recycled. About 61 percent was disposed of in the 150 permitted C&D debris and land-clearing debris (LCD) landfills in South Carolina, while about 5 percent was incinerated or disposed of in a MSW landfill.

While C&D generation has increased, so has interest in C&D debris recycling – both across the country as well as in South Carolina. Local governments are promoting C&D debris recycling through two approaches – ordinances and voluntary programs.

In order to decrease the amount of C&D debris being disposed of, generators are encouraged to reduce waste and recycle. This results in savings from avoided disposal fees while potentially generating revenue from the sale of recyclables. For example,

homebuilders and contractors can reduce C&D debris by carefully estimating the amount of materials needed for a particular project. Materials that are not needed can be reused on another project or made available to others for reuse.

In all likelihood, interest in C&D debris reduction and recycling will only continue to grow as green building principles and interest in Leadership in Energy and Environmental Design (LEED) certification become more commonplace. Green building – the practice of improving the efficiency of buildings through energy, water and material conservation while reducing impacts on human health and the environment – incorporates C&D debris recycling as well as the use of recycled-content building products. LEED is a nationally recognized rating system that evaluates the design, construction and operation of green buildings.

According to the S.C. Recycling Markets Directory, about two dozen companies are a part of the C&D debris recycling industry in South Carolina. Those that recycle bricks and concrete are plentiful while those that recycle carpet and gypsum wallboard are more limited. C&D debris that is recycled results in valuable products. For example, some C&D debris processors crush concrete, cement blocks and bricks into aggregate that can be sold and used as a substitute for stone. Tree stumps and other wood waste can be ground and sold as boiler fuel or used to produce mulch or compost.



Habitat for Humanity ReStores accept various building materials for reuse. For more information, visit [www.habitat.org/cd/env/restore.aspx](http://www.habitat.org/cd/env/restore.aspx).

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## **CLASSIFICATIONS** FOR C&D DEBRIS/LCD LANDFILLS

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There are four types of C&D Debris and LCD landfills: Part I Short-term Landfills; Part II LCD and Yard Trash Landfills; Part III C&D Landfills that serve utilities and manufacturers; and Part IV Long-term Landfills.

Except for Part II Landfills, C&D landfills accept various types of construction and demolition waste that has not come in contact with hazardous constituents such as lead-based paint, friable asbestos, petroleum products, polychlorinated biphenyls (PCBs), solvents and preservatives.

- **PART I SHORT-TERM LCD LANDFILLS** – These landfills have a proposed life of 12 months or less, occupy one acre in size or less and can only accept land-clearing debris, hardened concrete, hardened/cured asphalt, bricks and block.
- **PART II LCD AND YARD TRASH LANDFILLS** – These landfills are used solely for the disposal of trees, stumps, wood chips, and yard trash that

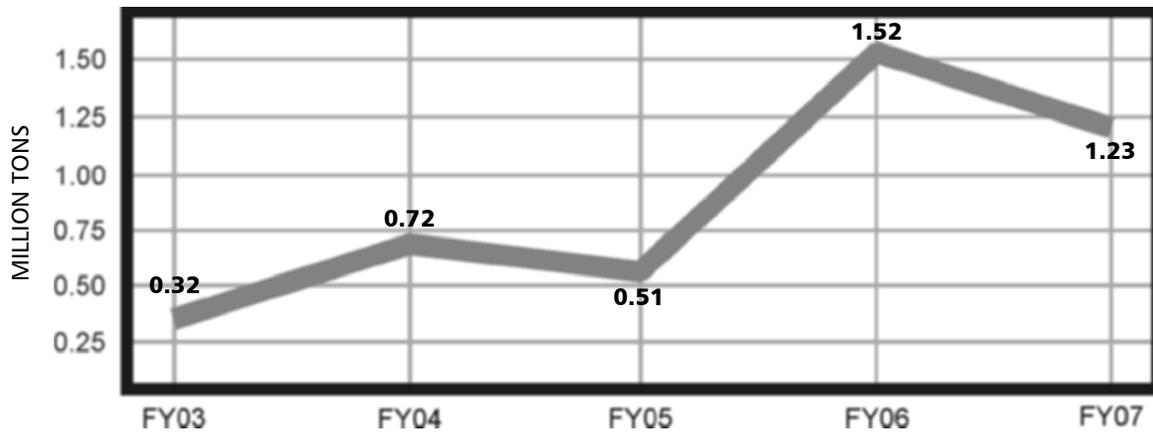
is generated by land-clearing activities, storm events and natural disasters (e.g., hurricanes and tornadoes).

- **PART III INDUSTRIAL C&D LANDFILLS** – These are private landfills with controlled access that serve permanently located utility facilities and manufacturing firms. They may use certain solid waste that is generated on-site for structural fill.
- **PART IV LONG-TERM C&D LANDFILLS** – These landfills may operate more than a year, are normally larger than one acre and may accept a variety of materials including all materials that can be accepted in Part I, II and III landfills.

Overall, there were 150 C&D debris/LCD landfills in the state in FY07. See the charts and tables on the following pages for details on C&D debris as well as LCD management in FY07.



**CHART 7.1: Total C&D Debris and LCD Recycled, Mulched or Composted in Millions of Tons, FY03 to FY07**



**CHART 7.2: Percentage of Solid Waste That Is C&D Debris or LCD, FY03 to FY07**



**CHART 7.3: Percentage of C&D Debris/LCD That Is Recycled, FY03 to FY07**



**TABLE 7.4: C&D Debris Landfill Disposal and Estimated Remaining Life**

COUNTY	LANDFILL	PERMITTED ANNUAL RATE OF DISPOSAL IN TONS	FY07 DISPOSAL IN TONS	ESTIMATED REMAINING LIFE OF FACILITY IN YEARS
Abbeville	Abbeville County C&DLF	10,000	3,228	59.0
Aiken	Aiken County (Barden) C&D+LCDLF	80,000	65,631	14.3
Aiken	Aiken County Wagener C&DLF	—*	3,144	71.5
Aiken	G.L. Williams C&D+LCDLF	57,500	10,378	20.0
Aiken	Rainbow Falls Road C&DLF	79,100	77,507	30.0
Anderson	Bobby and Danny C&D+LCDLF	31,250	3,078	4.0
Anderson	Clemson University Long-term C&D+LCDLF	15,000	6,000	6.0
Anderson	Enterprise Material Handling C&DLF	58,000	64,169	20.0
Anderson	Starr C&D+LCDLF	43,300	11,250	10.3
Bamberg	Bamberg County C&D+LCDLF	13,000	6,381	5.0
Barnwell	Barnwell County C&DLF	32,000	12,818	—
Beaufort	Barnwell Resources C&D+LCDLF	120,000	30,006	18.0
Berkeley	Berkeley County C&DLF	214,703	69,320	3.0
Calhoun	Calhoun County C&D+LCDLF	13,500	3,134	32.0
Charleston	Charleston County Bees Ferry C&D+LCDLF	200,000	175,322	1.5
Cherokee	Cherokee County C&DLF	20,000	4,977	50.0
Cherokee	City of Gaffney C&DLF	8,930	4,732	16.0
Chester	Chester County C&D+LCDLF	4,800	2,039	5.9
Chesterfield	Furr Facility C&DLF	32,700	11,206	65.0
Clarendon	Clarendon County C&D+LCDLF	10,000	10,288	12.0
Colleton	Colleton County C&DLF	20,000	20,858	27.0
Darlington	Darlington County C&D+LCDLF	8,030	8,577	0.0
Darlington	Darlington County C&D+LCDLF (2)	8,030	3,178	115.0
Dillon	Dillon County C&D+LCDLF	11,700	10,549	6.2
Dorchester	Affordable Waste C&DLF	67,000	11,061	46.5
Edgefield	Tri-County LF	10,000	10,590	1.0
Florence	Florence County C&DLF	25,000	60	—
Georgetown	Georgetown County C&D+LCDLF	35,000	29,823	—
Greenville	Carter Excavating Company (Big Valley) C&D+LCDLF	75,000	15,417	5.0
Greenville	Enoree C&D+LCDLF	20,000	10,423	0.0
Greenville	Greenville (Republic) C&DLF	200,000	2,479	5.0
Greenville	Twin Chimneys C&DLF	87,157	16,337	33.0
Greenville	WCA Shiloh (Wing Quarry) C&D+LCDLF	128,000	92,428	13.1
Greenwood	Greenwood County C&DLF	20,000	20,570	2.5
Hampton	Hampton County C&D+LCDLF	21,000	8,393	8.9
Horry	Horry County Solid Waste Authority C&D+LCDLF	250,000	121,266	15.0
Jasper	Oakwood C&DLF and RC (Cell 2)	188,000	105,801	17.8
Jasper	Snake Road C&DLF	113,200	0	10.0
Kershaw	Kershaw County C&D+LCDLF	30,000	24,079	30.0
Kershaw	Loveless & Loveless C&D+LCDLF	72,000	67,819	—

COUNTY	LANDFILL	PERMITTED ANNUAL RATE OF DISPOSAL IN TONS	FY07 DISPOSAL IN TONS	ESTIMATED REMAINING LIFE OF FACILITY IN YEARS
Kershaw	Pine Hill C&DLF	170,000	97,339	27.9
Laurens	City of Clinton C&D+LCDLF	1,375	200	20.0
Laurens	Curry Lake C&DLF	241,591	67,260	38.0
Laurens	Laurens County C&DLF	8,900	3,212	—
Lexington	Carolina Materials C&D+LCDLF	240,000	80,861	—
Lexington	Highway 378 (S&T Grading) C&D+LCDLF	250,000	0	—
Lexington	Lexington County (Edmund) C&D+LCDLF	216,000	78,367	4.0
Lexington	Oswald Lumber C&D+LCDLF	2,400	1,560	4.0
Lexington	S&T Recycling C&DLF	12,000	9,536	—
Lexington	Southeastern Associates C&D+LCDLF	120,000	66,010	25.0
Marion	City of Marion C&D+LCDLF	5,000	4,823	54.5
Marion	City of Mullins C&DLF	135,350	28,326	5.0
Marion	Sandlands C&D+LCDLF (Phase II)	206,500	143,727	1.0
Oconee	Seneca C&D+LCDLF	37,615	24,984	1.5
Orangeburg	City of Orangeburg LF	—*	0	—
Orangeburg	Orangeburg County C&DLF	31,000	27,232	1.0
Pickens	Easley C&D+LCDLF	20,000	12,068	0.4
Richland	City of Columbia South C&D+LCDLF	—*	30	—
Richland	Richland County C&D+LCDLF	75,000	31,885	—
Richland	Richland County C&D+LCDLF (2)	200,000	0	28.0
Spartanburg	Wasp Nest Road C&DLF	80,000	49,876	1.6
Sumter	Sumter County C&DLF (Phase 3)	51,332	41,897	20.0
Union	Copeland C&D+LCDLF	100	0	—
Williamsburg	City of Lake City C&DLF	12,900	4,044	0.7
Williamsburg	Williamsburg County C&DLF	4,370	2,447	0.0
York	Coltharp C&D+LCDLF	60,000	57,156	12.0
York	Rogers C&DLF	—*	4,500	10.0
York	York County C&D+LCDLF	75,000	63,039	1.5
<b>TOTAL</b>		<b>4,464,333</b>	<b>2,054,694</b>	<b>18.0</b>

\*Not specified in permit

<b>TABLE 7.5: Legend</b>	
<b>C&amp;DLF</b>	Construction and Demolition Debris Landfill
<b>C&amp;D+LCDLF</b>	Construction and Demolition Debris & Land-Clearing Debris Landfill
<b>LF</b>	Landfill
<b>RC</b>	Recycling Center

**TABLE 7.6: C&D Debris and LCD Landfill Disposal in Tons by Facility Type and County**

COUNTY OR PLACE OF ORIGIN	PART IV LONG-TERM C&D LANDFILLS	PART II LAND-CLEARING DEBRIS LANDFILLS	PART III INDUSTRIAL C&D LANDFILLS	TOTAL FOR EACH COUNTY
Abbeville	3,256	1,020	0	4,276
Aiken	102,927	29,274	39,509	171,710
Allendale	2,171	0	0	2,171
Anderson	70,823	15,198	0	86,021
Bamberg	6,381	0	0	6,381
Barnwell	10,700	0	39,509	50,209
Beaufort	130,391	0	0	130,391
Berkeley	59,472	0	0	59,472
Calhoun	3,176	0	856	4,032
Charleston	183,421	0	0	183,421
Cherokee	9,818	0	0	9,818
Chester	2,057	0	0	2,057
Chesterfield	10,146	0	0	10,146
Clarendon	10,288	0	0	10,288
Colleton	20,900	0	0	20,900
Darlington	11,755	0	20	11,775
Dillon	10,549	0	0	10,549
Dorchester	12,480	0	375	12,855
Edgefield	12,479	5,453	0	17,932
Fairfield	284	0	0	284
Florence	69	0	0	69
Georgetown	34,270	0	0	34,270
Greenville	161,738	6,975	0	168,713
Greenwood	26,714	0	0	26,714
Hampton	8,993	0	0	8,993
Horry	262,483	0	0	262,483
Jasper	4,907	630	0	5,537
Kershaw	42,346	0	0	42,346
Lancaster	6	250	30	286
Laurens	16,860	396	0	17,256
Lee	0	0	0	0
Lexington	217,465	8,457	0	225,922
Marion	31,299	0	0	31,299
Marlboro	1,060	0	0	1,060
McCormick	1,669	324	0	1,993
Newberry	1,219	100	0	1,319
Oconee	26,385	8,579	0	34,964
Orangeburg	27,360	0	0	27,360
Pickens	20,807	10,712	0	31,519
Richland	194,955	4,840	0	199,795
Saluda	1,465	0	0	1,465
Spartanburg	72,161	2,685	0	74,846
Sumter	42,033	0	0	42,033
Union	2	854	0	856
Williamsburg	6,491	0	0	6,491
York	124,695	37,440	0	162,135
C&D LCD from S.C.	2,000,927	133,187	80,299	2,214,413
Out-of-State (origin not specified)	53,767	1,665	0	55,432
<b>TOTAL AMOUNT OF C&amp;D/LCD DISPOSED</b>	<b>2,054,694</b>	<b>134,852</b>	<b>80,299</b>	<b>2,269,845</b>

**TABLE 7.7: C&D Debris Generated in South Carolina and Disposed of in Part IV Long-term C&D Landfills in Tons for Use in Demonstrating Need**

COUNTY	FY07	FY06	FY05	FY04	FY03
Abbeville	3,256	6,597	4,549	557	0
Aiken	102,927	90,100	79,529	74,412	76,117
Allendale	2,171	2,354	3,128	1,578	3,534
Anderson	70,823	51,300	35,801	35,206	42,857
Bamberg	6,381	6,175	4,811	4,883	5,788
Barnwell	10,700	10,921	10,411	8,329	12,749
Beaufort	130,391	141,752	139,916	121,464	102,287
Berkeley	59,472	61,341	36,175	66,023	58,137
Calhoun	3,176	4,474	3,554	4,139	4,067
Charleston	183,421	168,253	130,755	108,148	189,167
Cherokee	9,818	16,210	8,132	10,658	8,586
Chester	2,057	2,908	4,366	3,220	2,346
Chesterfield	10,146	12,021	14,448	12,805	15,192
Clarendon	10,288	8,861	9,296	5,500	4,605
Colleton	20,900	17,439	13,823	13,157	13,295
Darlington	11,755	11,764	12,858	12,614	13,657
Dillon	10,549	8,352	10,995	11,412	10,096
Dorchester	12,480	1,635	2,155	0	10,044
Edgefield	12,479	13,116	3,244	2,678	3,006
Fairfield	284	359	177	126	33
Florence	69	1,142	1,264	883	41
Georgetown	34,270	51,581	30,087	33,680	22,114
Greenville	161,738	163,450	142,767	87,157	147,929
Greenwood	26,714	20,174	14,675	7,408	12,281
Hampton	8,993	7,786	8,590	7,444	3,221
Horry	262,483	211,671	155,676	170,856	135,648
Jasper	4,907	3,681	176	240	500
Kershaw	42,346	52,668	41,923	33,277	30,452
Lancaster	6	6	0	0	3
Laurens	16,860	9,479	6,635	8,434	8,631
Lee	0	0	0	0	0
Lexington	217,465	237,178	246,783	231,899	228,223
Marion	31,299	62,965	29,818	16,493	10,982
Marlboro	1,060	1,212	845	1,040	1,034
McCormick	1,669	4,409	1,335	920	819
Newberry	1,219	1,273	1,098	797	487
Oconee	26,385	23,801	19,867	20,608	15,558
Orangeburg	27,360	26,319	20,915	23,222	21,479
Pickens	20,807	17,881	34,746	16,049	26,334
Richland	194,955	211,729	216,706	199,805	206,794
Saluda	1,465	1,960	1,149	1,176	1,116
Spartanburg	72,161	68,662	71,424	58,803	26,000
Sumter	42,033	43,588	38,925	42,747	51,962
Union	2	3	5	4	1,320
Williamsburg	6,491	7,220	2,386	2,585	3,818
York	124,695	95,632	97,810	82,448	42,550

This data is solely for use in calculating annual C&D tonnage limits as related to R.61-107.17, Demonstration of Need. Any other use of this data may lead to an inaccurate conclusion.



# DISPOSAL DATA

This section focuses on disposal for both municipal solid waste (MSW) and total solid waste (TSW). It provides local governments – and in particular, solid waste planners – specific information as they develop the county’s solid waste plan. This section addresses different types of waste that are disposed of including, of course, MSW as well as the components that comprise total solid waste: construction and demolition (C&D) debris; land-clearing debris (LCD); and industrial solid waste (ISW). This section also includes charts that provide disposal data several ways including by facility and origin and type of waste.

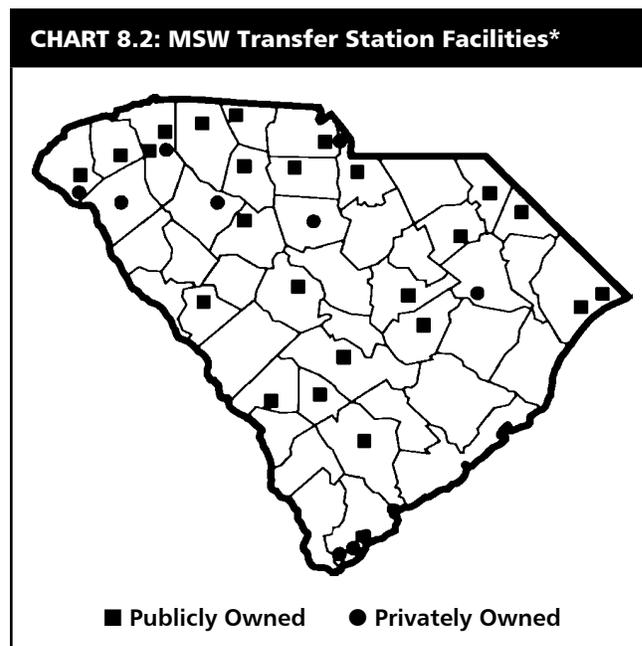
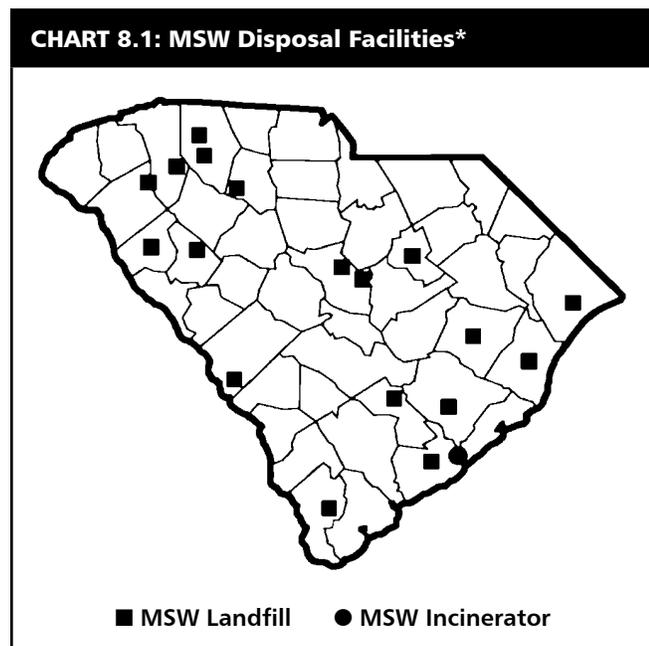
In addition, it also includes charts detailing the amount of material generated for disposal and used when applying demonstration of need (DON) criteria for MSW, C&D and ISW landfills. Please refer to the “Solid Waste Planning,” Section 9 on page 89 for additional information on DON.

South Carolinians disposed of more than 3.4 million tons of MSW in fiscal year (FY) 2007 (July 1, 2006 to June 30, 2007) – virtually unchanged from the

previous FY. Each resident disposed of about 4.4 pounds per person per day (p/p/d). That figure remains about 1 pound more than the state’s disposal goal of 3.5 pounds.

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 FY07, there were 425 permitted solid waste facilities in South Carolina. Of the 22 types of facilities, only three handle MSW: MSW transfer stations; MSW incinerators; and MSW landfills.

There were 37 permitted MSW transfer stations in FY07. Of those, 33 reported accepting MSW for disposal. 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 management facility.



\*For a complete list of the facilities in Chart 8.1 and 8.2, see the Appendix, Section 10 beginning on page 93.

There was one MSW incinerator – Montenay Charleston Resource Recovery – operating in FY07. At that facility, 224,919 tons of MSW were burned for energy recovery.

There were 18 permitted MSW landfills operating in FY07. (See Chart 8.1 and Tables 8.4 through 8.9 for details.) Local governments own 10 of the MSW landfills and eight are privately owned. MSW landfills, by law, must meet minimum criteria for siting, design, construction, operation and post-closure. All new MSW landfills and expansions to current landfills must comply with the federal Resource Conservation Recovery Act (RCRA) Subtitle D requirements. One of the MSW landfills (Williamsburg County MSW Landfill) continued to operate under a DHEC consent agreement. The consent agreement provides for a phased closure of the landfill.

It is important to note that MSW landfills accept waste other than MSW. About 6.4 million tons of solid waste – which includes C&D debris, imported solid waste, ISW and MSW – were disposed of in the

18 MSW landfills. That total reflects an increase of 300,000 tons from the previous FY.

The majority of South Carolina’s solid waste was disposed of in privately owned MSW landfills. In FY07, MSW landfill owners/operators reported 5 million tons of solid waste being disposed of in the eight privately owned MSW landfills. In addition, three of those private MSW landfills (Lee County Landfill, Palmetto Landfill and Richland Landfill) accepted 49 percent of the solid waste that was disposed of in the state’s MSW landfills. About 1.38 million tons of solid waste were disposed of in the state’s publicly owned MSW landfills in FY07 – about the same as the previous FY.

Tipping fees – the fees charged to dispose of solid waste at a landfill – were provided on the MSW landfill reports submitted to DHEC. While tipping fee data is incomplete (only a portion of the facilities reported this number), it is worth noting that in FY07 the average MSW landfill tipping fee was \$42 per ton.

More than 1.7 million tons of the 6.4 million tons of solid waste disposed of in MSW landfills in South Carolina was imported from nine states: Delaware; Florida; Georgia; Massachusetts; New Jersey; New York; North Carolina; Tennessee; and Virginia. See Table 8.4 for a breakdown of that figure. Overall, the amount of waste imported into South Carolina in FY07 reflects a slight increase from the previous FY. Imported solid waste, of which the majority is MSW, is not calculated into the state’s recycling and disposal rates. Imported solid waste, however, impacts the state’s landfill capacity.

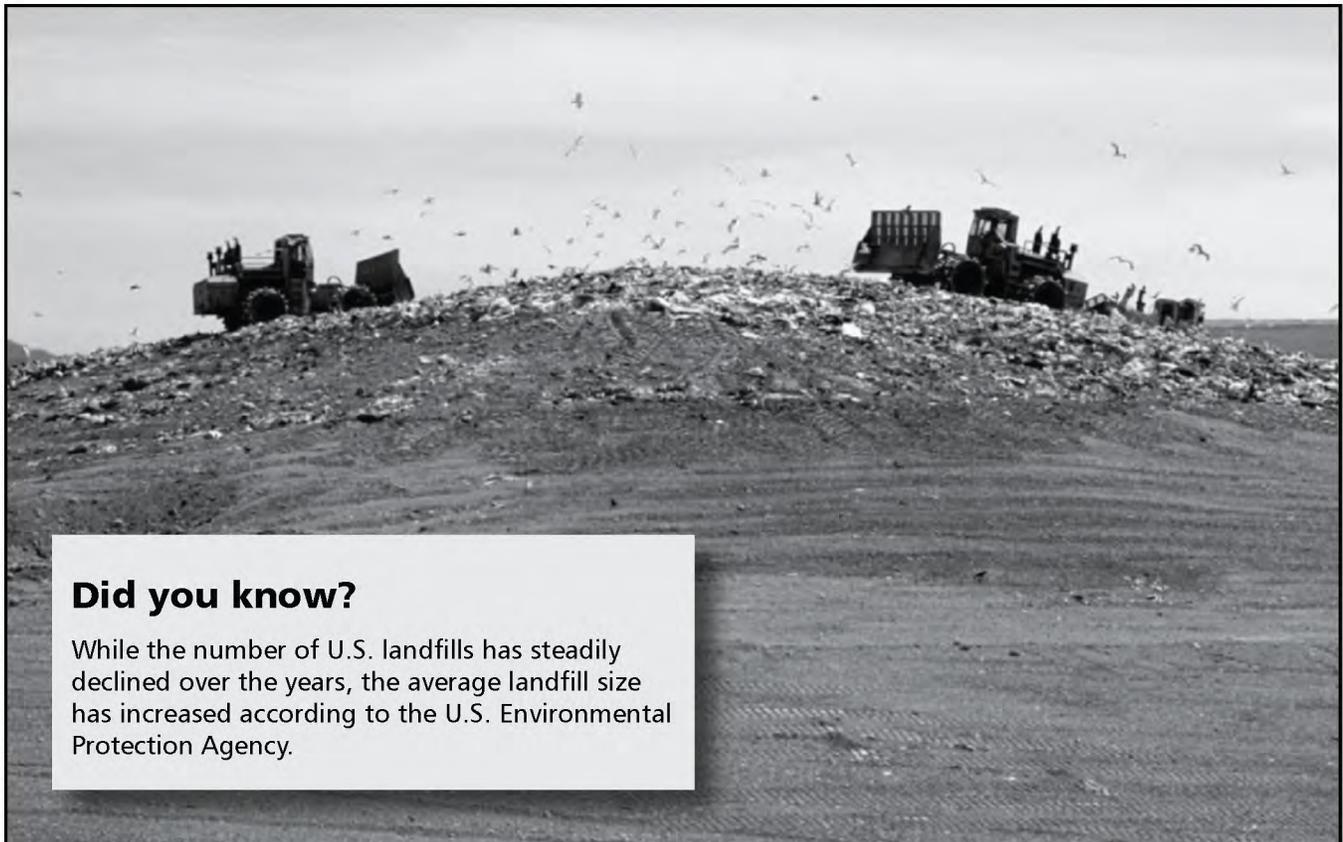
Six South Carolina counties – Anderson, Chester, Lancaster, Oconee, Pickens and York – exported 177,926 tons of MSW. Of that amount, 52,206 tons were sent to North Carolina and 125,720 tons went to Georgia for disposal. See Table 8.3 for details.

COUNTY EXPORTING WASTE	Waste Exported to	
	NORTH CAROLINA	GEORGIA
Anderson	0	25,725
Chester	2,252	0
Lancaster	5,436	0
Oconee	0	48,258
Pickens	0	51,737
York	44,518	0
<b>SUBTOTAL</b>	<b>52,206</b>	<b>125,720</b>
<b>TOTAL</b>	<b>177,926</b>	

**TABLE 8.4: Imported Waste by State in Tons**

STATE OF ORIGIN	ABBEVILLE COUNTY SUBTITLE D LANDFILL	HICKORY HILL MSW LANDFILL	LEE COUNTY LANDFILL, LLC	OAKRIDGE MSW LANDFILL	PALMETTO MSW LANDFILL	RICHLAND LANDFILL, INC.	THREE RIVERS MSW LANDFILL	UNION COUNTY REGIONAL MSW LANDFILL	TOTAL AMOUNT OF SOLID WASTE DISPOSED OF IN S.C. MSWLFS*
Delaware	0	0	100,529	0	0	0	0	0	100,529
Florida	0	13	0	0	0	0	0	0	13
Georgia	7	15,305	0	32,626	39	622	9,488	19,570	77,656
Massachusetts	0	0	366,054	0	0	0	0	0	366,054
New Jersey	0	0	168,215	0	0	0	0	0	168,215
New York	0	0	417,196	0	0	0	0	0	417,196
North Carolina	0	0	7,066	31	403,355	47,198	0	170,712	628,362
Tennessee	0	0	0	10	36	42	0	0	88
Virginia	0	0	0	0	36	0	0	0	36
<b>TOTAL WASTE FROM OUT OF STATE</b>	<b>7</b>	<b>15,318</b>	<b>1,059,060</b>	<b>32,667</b>	<b>403,465</b>	<b>47,862</b>	<b>9,488</b>	<b>190,282</b>	<b>1,758,149</b>

\*MSWLFS = Municipal Solid Waste Landfills



### Did you know?

While the number of U.S. landfills has steadily declined over the years, the average landfill size has increased according to the U.S. Environmental Protection Agency.





**TABLE 8.6: TSW Disposed in MSW Landfills, MSW Incinerators and Exported in Tons (by Type of Waste)**

COUNTY	RESIDENTIAL (DISPOSED OF + INCINERATED + EXPORTED)	COMMERCIAL (DISPOSED OF + EXPORTED)	INDUSTRIAL – OFFICE/PACKAGING (DISPOSED OF + EXPORTED)	ASH	C&D DEBRIS (DISPOSED OF + INCINERATED)	INDUSTRIAL PROCESS WASTE	OTHER	TSW DISPOSED OF IN MSWLFs, INCINERATED & EXPORTED FOR DISPOSAL	MSW DISPOSED OF IN MSWLFs, INCINERATED & EXPORTED FOR DISPOSAL
Abbeville	10,263	3,447	0	0	0	4,116	134	17,959	13,709
Aiken	60,820	32,041	0	0	5	32,141	789	125,796	92,861
Allendale	5,767	180	0	2,151	54	2,833	6	10,990	5,947
Anderson	116,222	254	243	0	2,361	533	10,896	130,509	116,719
Bamberg	7,690	2,702	0	0	0	273	0	10,665	10,392
Barnwell	13,037	4,416	0	0	1	2,032	2	19,488	17,453
Beaufort	60,695	72,073	0	0	32,283	49	17,415	182,515	132,769
Berkeley	52,666	60,028	0	371	59,813	409,681	43,011	625,570	112,694
Calhoun	4,080	4,313	0	0	0	2,686	31	11,109	8,392
Charleston	269,704	45,108	0	46,715	14,973	73,484	17,352	467,336	314,812
Cherokee	37,132	29,532	252	0	41	21,047	4	88,008	66,916
Chester	2,252	1,683	0	44	966	6,386	21,992	33,323	3,935
Chesterfield	12,379	0	0	0	37	2,749	3	15,168	12,379
Clarendon	12,260	3,836	0	0	7	273	0	16,377	16,097
Colleton	223	22,038	0	0	2,080	14,420	156	38,917	22,260
Darlington	37,177	82	0	0	14	33,469	54	70,796	37,260
Dillon	26,319	0	0	0	0	10,878	0	37,197	26,319
Dorchester	792	67,636	0	64	22,886	13,318	3,493	108,189	68,428
Edgefield	10,694	3,764	0	0	1	0	13	14,473	14,459
Fairfield	19,029	2,588	0	0	6	177	242	22,041	21,616
Florence	116,585	114	0	0	317	18,504	143	135,663	116,699
Georgetown	25,467	22,130	0	0	40	1,486	2,747	51,870	47,597
Greenville	202,184	265,323	11,110	0	24,467	152,849	26,577	682,511	478,617
Greenwood	24,294	47,021	5	0	904	19,825	20,810	112,858	71,319
Hampton	2,624	15,743	0	7	36	11	188	18,609	18,367
Horry	78,811	166,673	0	0	25	313	304	246,126	245,484
Jasper	10,019	11,025	0	0	14,755	0	9,542	45,341	21,044

Kershaw	23,956	8,603	0	0	190	7,480	1,675	41,904	32,559
Lancaster	29,918	77	0	0	0	416	78	30,489	29,995
Laurens	21	40,431	26	0	708	1,245	44	42,475	40,477
Lee	10,990	12	0	0	191	3,745	3	14,941	11,002
Lexington	118,666	36,887	0	5	695	26,812	7,517	190,583	155,553
Marion	24,480	0	0	0	0	1,657	4	26,141	23,480
Marlboro	10,564	0	0	0	0	1,766	2	12,332	10,564
McCormick	2,869	1,586	0	0	0	31	20	4,505	4,455
Newberry	39,761	385	0	75	40	8,323	18	48,603	40,146
Oconee	48,258	14	0	0	38	8,096	2	56,408	48,273
Orangeburg	45,776	28,022	0	0	2,247	9,128	4,214	89,386	73,798
Pickens	51,737	752	10	0	3,575	5,588	0	61,662	52,499
Richland	270,397	44,742	0	1,902	3,334	16,568	18,034	354,977	315,139
Saluda	8,086	2,863	0	0	0	167	0	11,116	10,949
Spartanburg	104,623	66,836	64,448	0	8,211	136,308	1,325	381,750	235,906
Sumter	47,171	15,624	0	0	9,547	36,072	388	108,801	62,795
Union	15,471	2,754	171	0	283	95	1	18,775	18,396
Williamsburg	10,411	5,177	1,988	0	0	27,877	51	45,506	17,575
York	150,836	8,157	2,560	0	0	4,330	1,256	167,139	161,553
<b>S.C. COUNTIES TOTAL (MSWLF/ TS/EXP/INC)</b>	<b>2,233,175</b>	<b>1,146,669</b>	<b>80,812</b>	<b>51,334</b>	<b>205,133</b>	<b>1,119,234</b>	<b>210,539</b>	<b>5,046,896</b>	<b>3,460,656</b>
Delaware	0	0	0	0	0	100,529	0	100,529	0
Florida	0	13	0	0	0	0	0	13	13
Georgia	35,459	56	0	0	26	8,659	33,456	77,656	35,515
North Carolina	309,518	153,826	114,462	35	0	48,600	1,922	628,362	577,806
Massachusetts	365,384	0	0	0	0	670	0	366,054	365,384
New Jersey	139,968	0	0	0	0	28,247	0	168,215	139,968
Tennessee	0	0	0	0	0	88	0	88	0
Texas	388,115	0	0	0	0	29,081	0	417,196	388,115
Virginia	0	0	0	0	0	36	0	36	0
<b>OUT OF STATE TOTAL (MSWLF)</b>	<b>1,238,244</b>	<b>153,895</b>	<b>114,462</b>	<b>35</b>	<b>26</b>	<b>215,909</b>	<b>35,378</b>	<b>1,758,149</b>	<b>1,506,802</b>
<b>TOTAL BY WASTE STREAM</b>	<b>3,471,619</b>	<b>1,300,564</b>	<b>195,274</b>	<b>51,369</b>	<b>205,159</b>	<b>1,335,143</b>	<b>245,916</b>	<b>6,805,045</b>	<b>4,967,458</b>

**TABLE 8.7: MSWLF Remaining Capacity & Disposal in Tons**

NAME OF MSWLF	COUNTY	PERMITTED ANNUAL RATE OF DISPOSAL	FY07 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 MSWLF	Abbeville	46,000	21,343	485,402	10.6	22.7
Anderson Regional Landfill	Anderson	438,000	344,232	7,206,117	16.5	20.9
Bees Ferry Road MSWLF	Charleston	180,000	125,318	5,689,580	31.6	45.4
Berkeley County MSWLF	Berkeley	1,000,000	232,545	4,528,812	4.5	19.5
Enoree Phase II MSWLF*	Greenville	243,750	145,802	0	0.0	0.0
Georgetown County MSWLF	Georgetown	79,582	49,718	1,337,475	16.8	26.9
Greenwood County MSWLF	Greenwood	120,000	85,330	1,988,428	16.6	23.3
Hickory Hill MSWLF	Jasper	302,000	235,296	3,169,667	10.5	13.5
Horry County MSWLF	Horry	250,000	245,527	2,889,247	11.6	11.8
Lee County Landfill, LLC	Lee	1,944,939	1,530,801	23,499,566	12.1	15.4
Northeast Landfill, LLC	Richland	218,400	35,609	163,875	0.8	4.6
Oakridge MSWLF	Dorchester	1,144,000	748,702	14,748,719	12.9	19.7
Palmetto MSWLF	Spartanburg	1,200,000	820,700	2,496,000	2.1	3.0
Richland Landfill, Inc.	Richland	851,500	799,602	5,376,267	6.3	6.7
Three Rivers MSWLF	Aiken	500,000	269,341	18,047,834	36.1	67.0
Twin Chimneys Landfill	Greenville	500,000	77,135	21,912,623	43.8	284.1
Union County Regional MSWLF	Union	730,000	484,139	7,040,169	9.6	14.5
Wellford MSWLF	Spartanburg	150,000	110,574	1,285,057	8.6	11.6
Williamsburg County MSWLF	Williamsburg	35,000	18,398	97,998	2.8	5.3
<b>STATE TOTALS</b>	—	<b>9,933,171</b>	<b>6,380,203</b>	<b>121,962,835</b>	<b>12.3</b>	<b>19.1</b>

\*Enoree Phase II MSWLF closed in FY07.

**TABLE 8.8: TSW Recycling, Disposal and Generation Rates in Tons**

COUNTY	POPULATION	TOTAL SW DISPOSED OF IN THE MSW LANDFILLS, SW INCINERATORS & EXPORTED	TOTAL C&D & LCD DEBRIS DISPOSED OF IN PART II, III & IV LANDFILLS	TOTAL INDUSTRIAL SW DISPOSED OF IN COMMERCIAL & ONSITE ISW LANDFILLS	TOTAL AMOUNT OF ALL SW DISPOSED OF INCINERATED & EXPORTED	TOTAL COUNTY RECYCLING EFFORTS	TOTAL AMOUNT OF SW GENERATED (RECYCLED + DISPOSED)	PERCENT OF TOTAL SW GENERATED THAT WAS RECYCLED (SW RECYCLED/GENERATED)
Abbeville	25,935	17,959	4,276	0	22,235	5,266	27,500	19.1
Aiken	151,800	125,796	171,710	0	297,506	75,501	373,007	20.2
Allendale	10,748	10,990	2,171	0	13,161	4,606	17,767	25.9
Anderson	177,963	130,509	86,021	0	216,530	710,872	927,402	76.7
Bamberg	15,678	10,665	6,381	0	17,046	4,446	21,492	20.7
Barnwell	23,265	19,488	50,209	0	69,697	11,332	81,029	14.0
Beaufort	164,000	182,515	130,391	0	312,906	82,475	395,381	20.9
Berkeley	152,282	625,570	59,472	254,393	939,435	1,797,170	2,736,605	65.7
Calhoun	15,026	11,109	4,032	0	15,141	5,030	20,171	24.9
Charleston	331,917	467,336	183,421	197,213	847,970	406,436	1,254,406	32.4
Cherokee	53,886	88,008	9,818	0	97,826	21,920	119,746	18.3
Chester	32,875	33,323	2,057	2,460	37,840	5,635	43,475	13.0
Chesterfield	43,191	15,168	10,146	2,035	27,349	4,548	31,897	14.3
Clarendon	33,339	16,377	10,288	0	26,665	6,501	33,166	19.6
Colleton	39,467	38,917	20,900	441	60,258	5,419	65,677	8.3
Darlington	67,551	70,796	11,775	97,853	180,424	285,460	465,883	61.3
Dillon	30,984	37,197	10,549	1,419	49,165	16,468	65,632	25.1
Dorchester	118,979	108,189	12,855	82,796	203,840	61,388	265,228	23.1
Edgefield	25,261	14,473	17,932	0	32,405	18,755	51,160	36.7
Fairfield	23,810	22,041	284	0	22,325	5,852	28,177	20.8
Florence	131,297	135,663	69	117,378	253,110	69,662	322,773	21.6
Georgetown	60,860	51,870	34,270	11,567	97,707	160,399	258,106	62.1
Greenville	417,166	682,511	168,713	0	851,224	333,591	1,184,815	28.2
Greenwood	68,213	112,858	26,714	0	139,572	112,090	251,662	44.5
Hampton	21,268	18,609	8,993	0	27,602	7,791	35,393	22.0
Horry	238,493	246,126	262,483	70,100	578,709	1,628,115	2,206,824	73.8
Jasper	21,809	45,341	5,537	0	50,878	23,353	74,232	31.5
Kershaw	57,490	41,904	42,346	0	84,250	20,330	104,580	19.4
Lancaster	63,628	30,489	286	27,338	58,113	83,571	141,684	59.0
Laurens	70,374	42,475	17,256	0	59,731	9,416	69,147	13.6
Lee	20,559	14,941	0	0	14,941	5,463	20,404	26.8
Lexington	240,160	190,583	225,922	239,847	656,353	127,040	783,392	16.2
Marion	34,684	26,141	31,299	0	57,440	6,753	64,193	10.5
Marlboro	29,152	12,332	1,060	3,721	17,113	17,531	34,644	50.6
McCormick	10,226	4,505	1,993	0	6,498	8,406	14,905	56.4
Newberry	37,762	48,603	1,319	0	49,922	19,103	69,025	27.7
Oconee	70,567	56,408	34,964	0	91,372	24,643	116,015	21.2
Orangeburg	90,845	89,386	27,360	754	117,500	14,368	131,869	10.9
Pickens	114,446	61,662	31,519	0	93,181	41,278	134,460	30.7
Richland	348,226	354,977	199,795	135,746	690,518	185,544	876,062	21.2
Saluda	19,059	11,116	1,465	0	12,581	9,547	22,128	43.1
Spartanburg	271,087	381,750	74,846	0	456,596	1,428,426	1,885,022	75.8
Sumter	104,430	108,801	42,033	8,592	159,426	24,215	183,641	13.2
Union	28,306	18,775	856	0	19,631	6,682	26,313	25.4
Williamsburg	36,105	45,506	6,491	12,738	64,735	7,421	72,155	10.3
York	199,035	167,139	162,135	17,699	346,973	720,163	1,067,136	67.5
<b>TOTAL FOR S.C. COUNTIES</b>	<b>4,343,204</b>	<b>5,046,896</b>	<b>2,214,413</b>	<b>1,284,090</b>	<b>8,545,399</b>	<b>8,629,980</b>	<b>17,175,379</b>	<b>50.2</b>
<b>OUT OF STATE TOTAL</b>	—	<b>1,758,149</b>	<b>55,432</b>	<b>12,710</b>	<b>1,826,292</b>	—	<b>1,826,292</b>	—
<b>TOTAL WASTE STREAM</b>	—	<b>6,805,045</b>	<b>2,269,845</b>	<b>1,296,800</b>	<b>10,371,691</b>	<b>8,629,980</b>	<b>19,001,671</b>	—

**TABLE 8.9: Commercial and On-site Industrial Solid Waste Landfill (ISWLF) Disposal Data in Tons**

ISWLF BY COUNTY OF ORIGIN	TOTAL DISPOSED OF AT THE COMMERCIAL ISWLFs	TOTAL DISPOSED OF AT THE ON-SITE ISWLFs	TOTAL INDUSTRIAL SOLID WASTE DISPOSED
Berkeley	50,077	204,316	254,393
Charleston	197,213	0	197,213
Chester	2,460	0	2,460
Chesterfield	2,035	0	2,035
Colleton	441	0	441
Darlington	5,000	92,853	97,853
Dillon	1,419	0	1,419
Dorchester	82,796	0	82,796
Florence	54,000	63,378	117,378
Georgetown	0	11,567	11,567
Horry	70,100	0	70,100
Lancaster	27,338	0	27,338
Lexington	0	239,847	239,847
Marlboro	1,431	2,290	3,721
Orangeburg	0	754	754
Richland	1,746	134,000	135,746
Sumter	8,592	0	8,592
Williamsburg	0	12,738	12,738
York	1,274	16,425	17,699
<b>STATE TOTAL</b>	<b>505,922</b>	<b>778,168</b>	<b>1,284,090</b>

**NOTE:** Counties not listed in this chart did not have industrial solid waste data reported for them.

**TABLE 8.10: Industrial Solid Waste (ISW) Generated and Disposed of in Commercial ISW Landfills in Tons**

COUNTY	COMMERCIAL FACILITIES	PRIVATE (ON-SITE) FACILITIES
Berkeley	50,077	204,316
Charleston	197,213	0
Chester	2,460	0
Chesterfield	2,035	0
Colleton	441	0
Darlington	5,000	92,853
Dillon	1,419	0
Dorchester	82,796	0
Florence	54,000	63,378
Georgetown	0	11,567
Horry	70,100	0
Lancaster	27,338	0
Lexington	0	239,847
Marlboro	1,431	2,290
Orangeburg	0	754
Richland	1,746	134,000
Sumter	8,592	0
Williamsburg	0	12,738
York	1,274	16,425

This data is solely for use in calculating annual ISW tonnage limits as related to R.61-107.17, DON. Any other use of this data may lead to an inaccurate conclusion.

**TABLE 8.11: MSW Generated for Disposal in Tons for Use In Demonstrating Need**

COUNTY	FY07	FY06	FY05	FY04	FY03
Abbeville	17,959	17,219	15,836	18,817	25,909
Aiken	125,796	101,563	131,285	149,515	111,935
Allendale	10,990	5,813	6,990	5,903	6,540
Anderson	130,509	138,783	161,610	148,849	148,232
Bamberg	10,665	11,857	11,280	11,652	13,768
Barnwell	19,488	17,683	20,128	19,373	18,247
Beaufort	177,278	199,029	181,849	164,984	151,624
Berkeley	625,570	365,294	300,480	353,891	305,575
Calhoun	11,109	10,615	12,143	8,660	9,659
Charleston	242,417	213,641	243,271	221,896	180,463
Cherokee	88,008	69,106	71,145	71,332	73,943
Chester	33,323	43,496	37,847	37,070	44,435
Chesterfield	15,168	17,543	20,206	21,941	24,514
Clarendon	16,377	10,671	8,112	18,403	10,932
Colleton	38,917	38,273	38,100	35,071	31,737
Darlington	70,796	47,333	51,823	52,057	68,953
Dillon	37,197	31,492	34,416	13,925	34,092
Dorchester	108,189	132,100	122,594	94,275	93,306
Edgefield	14,473	13,371	13,406	13,969	14,870
Fairfield	22,041	20,721	21,981	22,546	23,076
Florence	135,663	149,919	154,874	152,909	151,123
Georgetown	51,870	54,719	50,709	49,736	70,531
Greenville	682,511	674,574	673,249	589,204	613,417
Greenwood	112,858	117,341	120,320	109,407	91,719
Hampton	18,609	17,322	22,991	18,188	22,039
Horry	246,126	237,582	222,935	227,469	212,686
Jasper	32,139	22,050	22,100	20,879	17,692
Kershaw	41,904	43,368	44,233	40,162	45,597
Lancaster	30,489	33,842	31,561	35,533	35,088
Laurens	42,475	49,210	73,090	51,636	57,940
Lee	14,941	14,737	15,425	14,981	14,670
Lexington	190,583	193,268	171,692	256,226	221,323
Marion	26,141	21,683	14,380	21,673	4,796
Marlboro	12,332	13,276	12,004	21,815	15,289
McCormick	4,505	4,524	4,858	5,183	11,869
Newberry	48,603	49,951	50,420	48,591	47,893
Oconee	56,408	53,302	49,368	45,533	45,260
Orangeburg	89,386	100,988	94,382	92,970	98,350
Pickens	58,104	51,255	54,966	59,873	56,938
Richland	354,977	376,435	341,907	349,087	327,966
Saluda	11,116	11,870	14,687	9,684	9,197
Spartanburg	381,750	381,084	351,908	373,060	418,942
Sumter	108,801	163,056	156,345	135,220	119,698
Union	18,775	14,178	28,309	18,988	12,835
Williamsburg	45,506	39,045	28,259	25,582	26,100
York	167,139	161,476	166,059	152,060	147,720

This data is solely for use in calculating annual MSWLF tonnage limits as related to R.61-107.17, DON. Any other use of this data may lead to an inaccurate conclusion.

