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Municipal Solid Waste in Texas: A Year in Review

FY 2010 Data Summary and Analysis

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Waste Permits Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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FY 2010 Data Summary and Analysis

Prepared by
Waste Permits Division

AS-187/11
October 2011

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About the Municipal Solid Waste Reporting Program

Municipal Solid Waste in Texas: A Year in Review is submitted by the Municipal Solid Waste (MSW) Permits Section, Waste Permits Division for publication after the end of each fiscal year. The main purpose of the summary is to provide data on the amount of waste disposed in MSW landfills and the amount of waste processed in MSW non-landfills in the state during the last fiscal year. The report also includes the estimated remaining capacity available for disposal as of the end of that fiscal year.

Waste Managed by MSW Facilities

The definition of MSW is found in Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter A (General Information). MSW is defined as "solid waste, resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste." Industrial solid waste is defined and regulated under 30 TAC Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste).

The Texas definition of MSW considers the source, rather than the constituents or properties of the waste. Distributors, retailers, repair services, and the general public are considered municipal generators; while manufacturers are considered industrial solid waste generators. As an example, a power distribution provider is an MSW generator, while an electric power generation plant is an industrial waste generator.

It is worth noting that the Texas definition of MSW is more encompassing than that of the US Environmental Protection Agency (US EPA) and several other states. While the US EPA definition does not include construction and demolition (C&D) debris and municipal sludge, the Texas definition does. Based on the Texas definition, the per capita MSW disposal and generation rates for Texas may appear to be higher than those of other states.

The US EPA and most states, including Texas, define MSW in terms of hazardous or non-hazardous. Texas also defines industrial solid wastes as being separate and distinct from MSW. In Texas, industrial solid waste may also be defined as hazardous or non-hazardous, with the non-hazardous industrial solid waste further defined by classes.

- Class 1 industrial non-hazardous waste includes waste that, based on its constituents and properties, may pose a substantial danger to human health or the environment if not properly managed. There are special handling requirements for Class 1

wastes. Solidified industrial sludge containing metals or organics is an example of Class 1 waste.

- Class 2 is a category for industrial solid waste that cannot be described as hazardous, Class 1, or Class 3. Activated sludge from industrial biological wastewater treatment and trash from plant offices are examples of Class 2 wastes.
- Class 3 wastes are inert and essentially insoluble industrial solid wastes that are not readily decomposable. Examples of Class 3 wastes include demolition debris and bricks from an industrial facility that are insoluble, do not react with other materials, and do not decompose.

It should be noted that waste classified as hazardous by federal rules cannot become non-hazardous through dilution. The Texas classification of Class 1 non-hazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste.

Under certain circumstances, non-hazardous industrial solid waste may be accepted at MSW landfills. Most MSW facilities may accept Class 2 and Class 3 wastes. Only facilities with dedicated Class 1 cells, which have more protective design requirements, may accept Class 1 nonhazardous waste.

Additional terms that are used in this summary include:

- **Residential waste:** waste generated in single and multi-family homes, including furniture, small appliances, newspapers, clothing, food packaging, cans, bottles, food scraps, and yard trimmings other than those that are diverted to backyard composting;
- **Commercial waste:** all solid waste generated by business establishments such as stores, markets, office buildings, restaurants, shopping centers, and theaters; and
- **Construction and demolition (C&D) waste:** waste building materials; dredging materials; tree stumps; and rubble resulting from for-hire construction, remodeling, repair, and demolition of homes, commercial buildings, and other structures and pavements. C&D waste may contain lead, asbestos, or other hazardous substances.

Who Files Reports

This summary includes data submitted to the agency by both permitted and registered MSW facilities. The data is obtained by the TCEQ executive director under the authority of 30 TAC 330, Subchapter P (Fees and Reporting), which requires all registered or permitted facility operators to report the types and amounts of waste disposed or processed at the disposal facility or processing location.

Reporting Period

Reports from MSW facilities are based on the Texas state fiscal year, which runs from September 1 through August 31. All references to 2010 are related to fiscal year 2010. This summary covers data from September 1, 2009, through August 31, 2010.

Data Used

The data in this summary is condensed from annual reports submitted by 224 landfills (189 active and 35 inactive or in post-closure care). In addition, submitted quarterly billing reports and permit data were used for 1 active landfill that did not submit an annual report. Data was also received from 163 (138 active and 25 inactive) non-landfill facilities, including transfer stations and processing facilities (See Tables 1 & 2). The submitted data was reviewed by the MSW Permits Section staff and discrepancies were verified and/or reconciled with facility representatives, quarterly report data, and the MSW Permits Section records (MSW Records).

Facility operators report information about different aspects of the facility, including operational information (e.g., which counties the facility serves), administrative information (e.g., who owns or operates the facility), and facility activities (e.g., amounts and types of waste accepted or processed at the facility).

Texas statute allows an open but inactive landfill to reactivate and accept waste under certain circumstances. All open facilities are held to the requirements of their permit, regardless of their operational state.

In accordance with 30 TAC Section 39.510, if a permitted MSW facility has not begun accepting waste within six months of permit issuance or becomes inactive for six months, the owner or operator must post signs at the site specifying the facility's status. Additionally, if the period during which the facility does not accept waste is extended to two years from the time the permit was issued, or it has ceased accepting waste for two consecutive years, the owner or operator must provide notice to the executive director, publish newspaper notice, and provide mailed notice stating their intent to either operate the facility in the future or to request revocation of their permit.

In accordance with 30 TAC Section 330.71(g), registered MSW facilities that do not commence physical construction within two years of registration issuance will have their registration automatically terminated.

In addition, population data for this summary was obtained from the US Census Bureau state population estimates [i] found at <www.census.gov/popest/eval-estimates/eval-est2010.html>

Landfills Reporting

MSW Records indicated that for 2010 there were 298 permitted MSW landfills in which their physical activity status was considered active, inactive, or in post-closure care. Of these, data was submitted for 225 facilities. The landfills that did not report were either inactive or in post-closure care and had no capacity to assess or report.

Disposal and capacity data was evaluated for all 190 active landfills. For the 1 active facility that did not submit an annual report, the disposal amount was calculated by using the submitted quarterly billing reports and the remaining capacity was estimated by using permit data.

The breakdown of the number of facilities according to their physical activity status in relation to MSW Records and the submitted reports is summarized below in Table 1.

Activity Status	MSW Records	Reports Received*
Active	190	190
Inactive – yet to receive waste	12	7
Inactive – previously received waste	38	11
Post-closure care—no longer accepts waste, have installed a final cover system, and do not plan to re-open	58	17
Total	**298**	**225**

Table 1. Landfill Activity Status for 2010

* Disposal and capacity analysis included quarterly billing and permit data for 1 active landfill that did not submit an annual report.

Classification of MSW Facilities

The TCEQ has classified all MSW facilities according to the method of disposal or processing of MSW.

Landfills

Type I facilities. A Type I landfill is the standard landfill for the disposal of MSW. Of the 190 active landfills reporting, 97 (51 percent) were permitted as Type I.

Type IV facilities. A Type IV landfill accepts only brush, C&D debris, and other similar waste that will not putrefy. Type IV facilities are not distributed evenly across the state; two-thirds are located in the greater Houston area. Type IV landfills handled 7.9 percent of the total waste disposed in landfills and accounted for 4.5 percent of the total statewide capacity remaining in 2010. Of the 190 active landfills reporting, 20 (11 percent) were permitted as Type IV.

Arid exemption (AE) facilities. Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt landfills. Arid exempt landfills are limited in the amount of solid waste they may accept and they are exempt from liner and groundwater monitoring requirements [ii]. In 2010, 73 facilities (38 percent of active facilities) had an arid exemption. Of these, 50 were Type I AE and 23 were Type IV AE. All arid exempt facilities accounted for 1.3 percent of the total disposal and 1.2 percent of the total remaining landfill capacity in the state for 2010.

Processing Facilities

Permitted and registered solid waste processing facilities are classified as Type V or Type IX facilities.

Type V facilities. Type V facilities include processing plants that transfer, incinerate, shred, grind, bale, compost, salvage, separate, dewater, reclaim, and/or provide other processing of solid waste. They may be authorized by permit. However, some facilities qualify for authorization by registration if they meet specific requirements identified by statute and rule. An example of a facility that would qualify for a registration is a transfer station that includes a material recovery operation that recovers at least 10% by weight of the incoming stream for reuse or recycling.

Type IX facilities. A Type IX facility is an energy, material, gas recovery for beneficial use facility, or a landfill mining facility located within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill. The facility may be used for extracting materials for energy or for gas recovery for beneficial use.

MSW Records indicate that for 2010 there were 182 authorized non-landfills in which the facility status in regards to processing waste was active. Of these, 138 facilities reported.

Processing facilities are differentiated by sub-types in MSW Records. The breakdown of the number of active facilities for 2010 according to their sub-types in relation to the MSW Records and the submitted reports is summarized below in Table 2.

Facility Type	MSW Records for Active Facilities		Reports Received	
	Permitted	Registered	Permitted	Registered
AutoClave (5AC)	3	0	3	0
Liquid Waste Processor (5GG)	18	5	16	5
Medical Waste (5MW)	3	4	3	2
Composting (5RC)	4	8	4	5
Recycling & Recovery (5RR)	1	1	1	1
Liquid Transfer Station (5TL)	0	10	0	4
Transfer Station (5TS)	32	65	28	41
Waste Incinerator (5WI)	3	0	2	0
Gas Recovery (9GR)	3	22	3	20
Total	**67**	**115**	**60**	**78**

Table 2. Breakdown of Non-Landfill Facilities for 2010

The total amount of waste processed by Type V facilities in 2010 was reported to be 5,328,640 tons. For the Type IX landfill gas recovery for beneficial use facilities, 15,257,143,939 cubic feet of gas was recovered according to submitted data. Power generated and used on site was 30,411,315 kilowatt hours (kWh) while power generated and sold was 436,154,265 kWh.

Other Information

Use of scales. The majority of active landfills in Texas (64 percent) used scales to measure all or some of their incoming waste. Facilities using scales accepted about 93 percent of the total waste stream disposed. Facilities without scales (as well as many facilities with scales) reported waste disposal by volume (i.e., cubic yards), which was then converted to tons for this summary.

Texas Solid Waste Disposal Fee. As defined in Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code:

> *"...the commission shall charge a fee on all solid waste that is disposed of within this state. The fee is $1.25 per ton received for disposal at a municipal solid waste landfill if the solid waste is measured by weight. If the solid waste is measured by volume, the fee for compacted solid waste is 40 cents per cubic yard or, for uncompacted solid waste, 25 cents per cubic yard received for disposal at a municipal solid waste landfill."*

Landfill operators collect this Texas solid waste disposal fee as part of the tipping fee they charge to their customers. The average tipping fees detailed below include this state fee.

Tipping fees. Landfills charge their customers a tipping (disposal) fee based on weight or volume, depending upon the type of waste and method of delivery to the landfill. For example, one landfill might measure an open roll-off dumpster by volume and measure a compactor truck by weight. Most landfill operators (130, or 68 percent of the active landfills) reported that they collected tipping fees by the ton of waste, and the state-wide reported average rate was $30.19 per ton. Fees for waste measured in compacted cubic yards averaged $9.53 per cubic yard at 36 facilities (19 percent). For waste measured in uncompacted cubic yards, 70 facilities (37 percent) reported collecting fees with an average rate of $9.16 per cubic yard. Some landfills use both weight and volume to measure various types of incoming waste.

Waste Information

Types of wastes. The largest single type of waste disposed in Texas MSW landfills in 2010 was residential waste, comprising 38 percent of the total waste stream, followed by commercial waste with 31 percent, and lastly, C&D debris with 16 percent. These three waste types make up the vast majority of the waste stream - 85 percent of the MSW disposed in the state. Table 3 illustrates the amounts of these three waste types disposed over the past five years.

Year	Residential Tons	Commercial Tons	C&D Tons
2006	9,998,672	9,882,398	5,655,773
2007	10,810,065	11,382,383	6,125,893
2008	11,367,722	10,252,316	6,469,039
2009	11,576,774	9,689,844	6,676,780
2010	11,009,577	8,942,475	4,728,725

Table 3. Amounts of Residential, Commercial, and C&D Waste Disposed by Year

Figure 1 and Table 4 provide a breakdown for the estimated amounts of various waste streams that disposal facilities accepted in 2010.

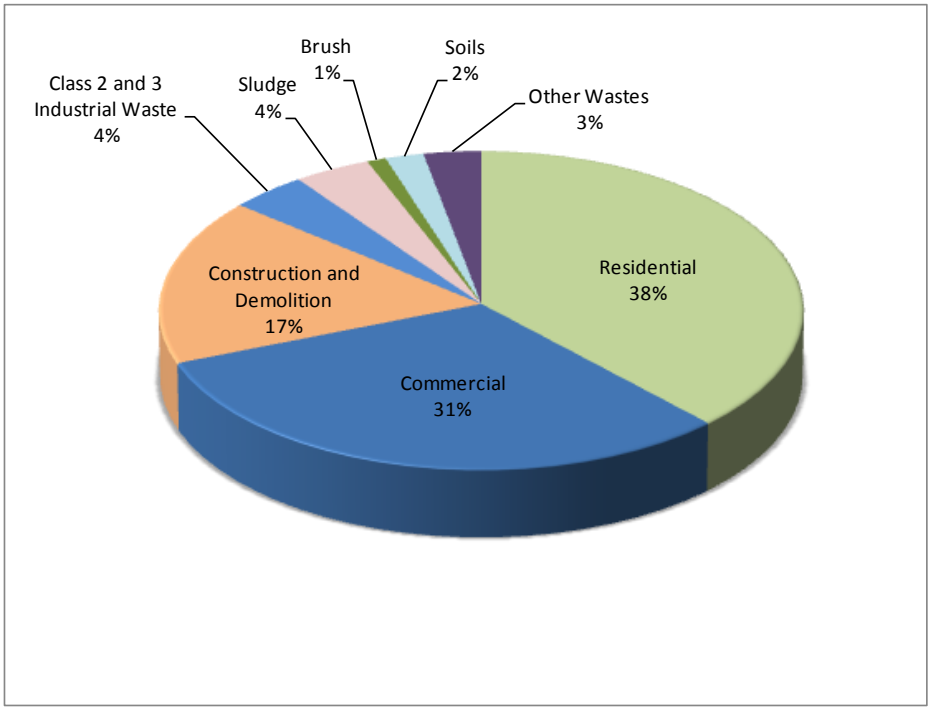


Figure 1. Breakdown of Waste Types Landfilled in Texas for 2010

Note: Class 1 waste is included in "Soil" and "All Other Types" categories

Waste Type	Number of Landfills That Accepted This Waste Type	Tons Disposed	Percent of Total Tons Disposed
TYPICAL MUNICIPAL SOLID WASTE			
Residential	150	11,009,577	38.44
Commercial	128	8,942,475	31.23
Institutional	36	87,858	0.31
Recreational	12	1,432	0.01
Brush	53	277,533	0.97
Construction/Demolition	142	4,728,725	16.51
Dump and Litter Cleanup	15	5,234	0.02
NON-HAZARDOUS INDUSTRIAL WASTE			
Class 1 (asbestos)	22	47,447	0.17
Class 1 (other)	12	189,658	0.66
Classes 2 and 3	46	1,049,812	3.67
SPECIAL NON-INDUSTRIAL WASTE			
Incinerator ash	6	126	<0.01
Treated medical waste	16	25,506	0.09
Asbestos	44	116,624	0.41
Dead animals	77	17,307	0.06
Sludge	85	1,157,005	4.04
Grease trap waste	15	11,591	0.04
Grit trap waste	23	30,288	0.11
Septage	4	3,700	0.01
Contaminated soil	47	549,612	1.92
Tire pieces	25	35,524	0.12
Rejected materials	16	23,652	0.08
Other	34	327,302	1.14
Total		**28,637,988**	**100**

Table 4. Breakdown of Waste Types Landfilled in Texas for 2010

Capacity Information

Per capita rate. For 2010, total disposal in the state was approximately 28.64 million tons. Using the state population estimate of 25,213,445 [i], the per capita landfill disposal rate in Texas for 2010 was 6.2 pounds per person per day.

The 2010 Texas per capita disposal rate of 6.2 pounds per person per day was less than the 2009 rate of 7.1 pounds per person per day. The decrease may be attributed to the public's efforts to minimize waste, positive impact of waste reduction/recycling campaigns, and ongoing public education efforts. Table 4, above, combines types of waste disposed into the categories: typical municipal solid waste, non-hazardous industrial waste, and special non-industrial waste. For typical MSW, a 12.3 percent decrease in disposal represented part of the decrease from the 2009 disposal amount. Non-hazardous industrial generators disposed 18.3 percent less in MSW landfills than they did in 2009. The amount of special, non-industrial waste disposed actually increased by 8.9 percent.

The overall decrease in per capita disposal occurred while the state population increased 1.7 percent to 25,213,445. See Figure 2 for a graphic representation of disposal amounts and per capita rates over time.

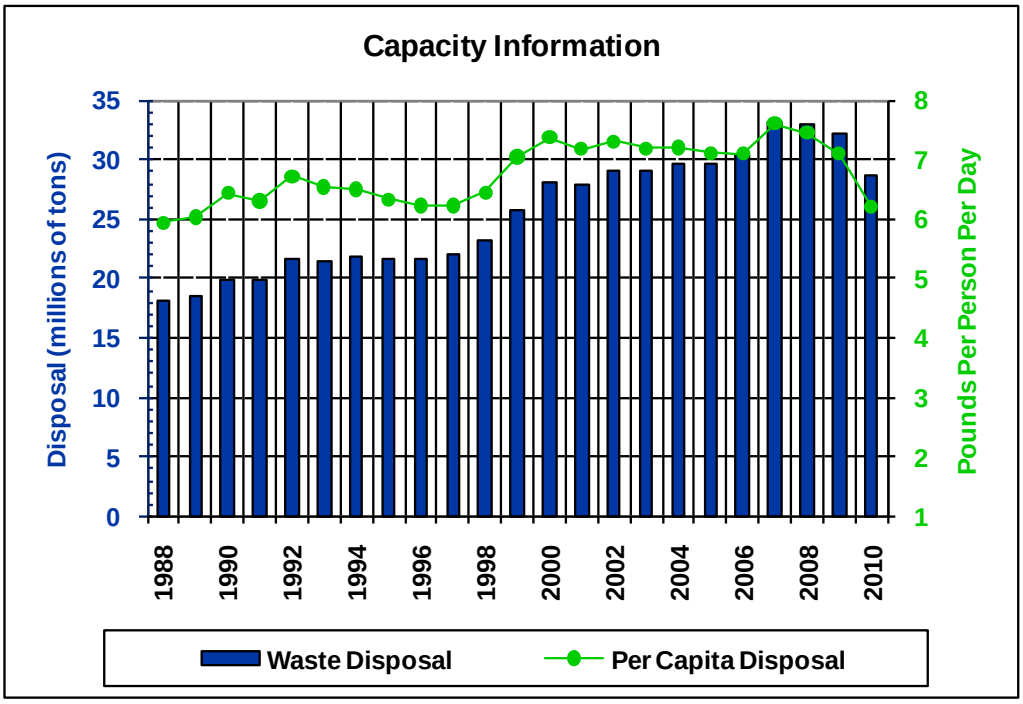


Figure 2. Texas Total and Per Capita Landfill Disposal

Landfill capacity. Total remaining landfill capacity in the state at the end of 2010 was 2.48 billion cubic yards. Based on reported compaction rates, this volume would hold 1.7 billion tons of waste and serve for 60 years. Table 5 summarizes the remaining capacity for Type I and Type IV landfills. The analyses in this summary are based on the assumptions that no new landfill expansions or new permits will be issued and that the 2010 population and disposal amounts will remain constant.

Facility Type	2010 Tons Disposed	2010 Tons Remaining	Years Capacity Remaining*
I and IAE	26,349,246	1,647,004,763	63
IV and IVAE	2,288,742	75,329,147	33
All types	**28,637,988**	**1,722,333,910**	**60**

Table 5. Remaining Capacity by Facility Type

* Average, assuming the 2010 disposal rate of 28.64 million tons per year

Growth and attrition. According to submitted data, statewide capacity increased in 2010. The resulting net capacity increased approximately 154 million tons (roughly 132 million cubic yards) or a 9.9 percent increase from the statewide 2009 capacity.

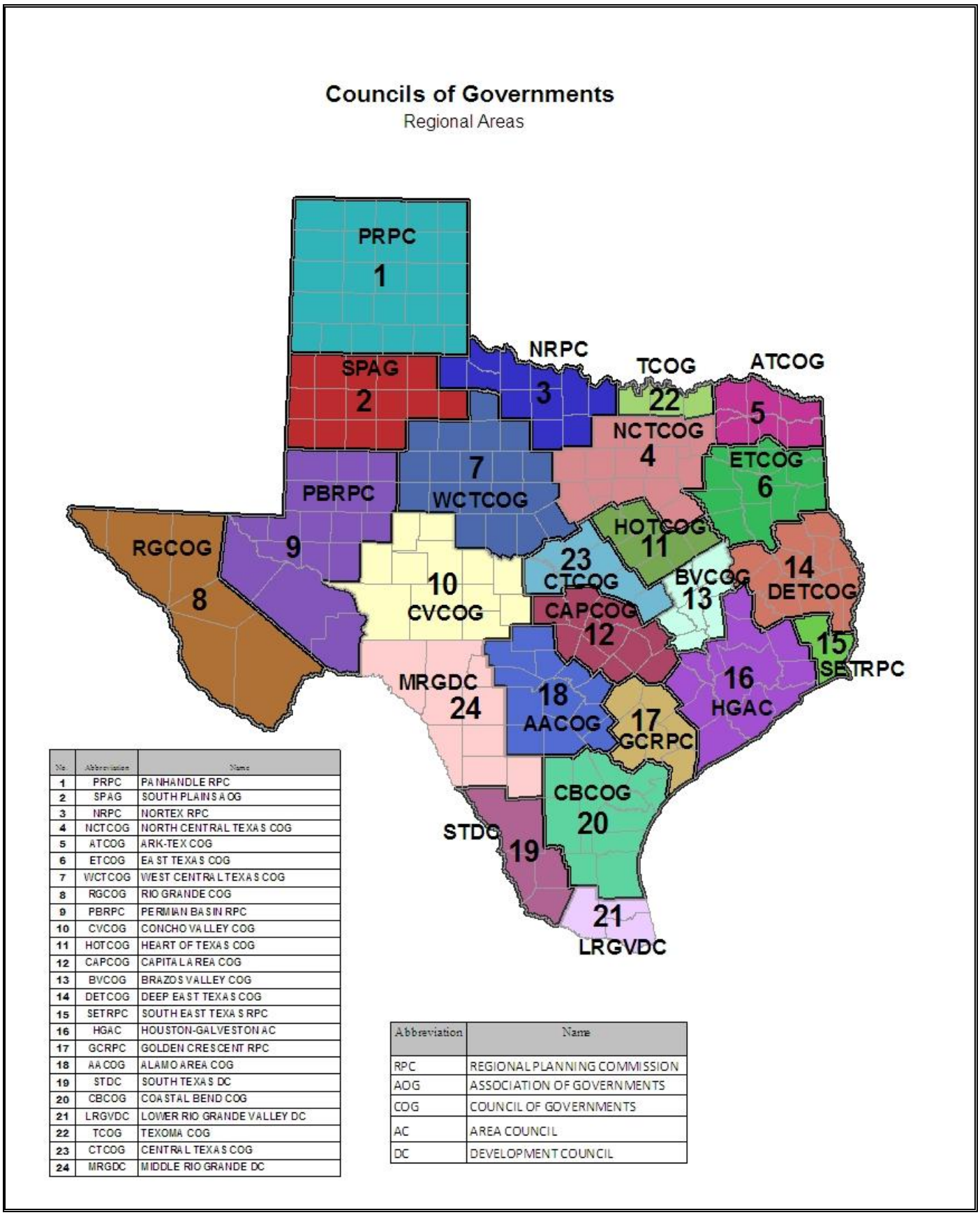
Statewide distribution. Texas appears to have an adequate reserve of landfill capacity in 2010. However, this capacity is not evenly distributed over every region of the state. There are 24 Regional Planning Commissions, also known as Councils of Governments (COGs), responsible for MSW management planning on a regional basis [iii]. Of the 24 COG regions, only the Brazos Valley Council of Governments (BVCOG) reported less than 10 years of capacity remaining. A new landfill has been permitted in the BVCOG region which, when opened, will raise the remaining capacity to over 30 years. In addition, the South Texas Development Council (STDC) COG region reported 12 years of capacity remaining. Otherwise, remaining capacity appeared to be adequate. See Table 6 for further capacity details for each COG and Figure 3 for a map of the COG regions.

Table 6. Analysis of MSW Landfill Disposal by Texas COGs for 2010

COG	ACTIVE MSW Landfills		2010 Disposal				Remaining Capacity		
	Count	% of Total	Tons	% of Total	Population	Per Capita*	Tons	% of Total	Years**
1 PRPC	21	11.05	514,115	1.66	420,021	6.71	41,3179,267	2.40	80
2 SPAG	18	9.47	427,869	1.33	403,962	5.80	81,391,062	4.73	190
3 NRPC	2	1.05	330,240	1.05	216,765	8.35	53,739,135	3.12	163
4 NCTCOG	21	11.05	8,020,289	25.55	6,745,853	6.51	369,151,624	21.43	46
5 ARK-TEX	4	2.11	316,661	1.12	280,681	6.18	29,298,715	1.70	93
6 ETCOG	4	2.11	623,294	2.00	819,941	4.17	132,375,768	7.69	212
7 WCTCOG	8	4.21	401,091	1.18	319,456	6.88	97,398,290	5.66	243
8 RGCOG	8	4.21	498,323	1.45	787,992	3.47	22,084,154	1.28	44
9 PBRPC	15	7.89	556,327	1.86	404,019	7.55	56,554,027	3.28	102
10 CVCOG	9	4.74	163,847	0.54	151,671	5.92	5,770,881	0.34	35
11 HOTCOG	4	2.11	583,696	2.46	351,099	9.11	46,504,103	2.70	80
12 CAPCOG	5	2.63	1,986,713	6.69	1,811,872	6.01	85,510,241	4.96	43
13 BVCOG	1	0.53	290,875	0.89	305,423	5.22	333,025	0.02	1
14 DETCOG	4	2.11	515,805	2.27	371,836	7.6	43,929,829	2.55	85
15 SETRPC	4	2.11	702,718	3.42	380,213	10.13	35,782,257	2.08	51
16 HGAC	26	13.68	7,214,143	29.24	6,127,229	6.45	294,846,998	17.12	41
17 GCRPC	1	0.53	135,178	0.44	188,157	3.94	3,688,055	0.21	27
18 AACOG	6	3.16	2,487,982	7.65	2,270,714	6.00	170,502,959	9.90	69
19 STDC	5	2.63	363,732	1.19	328,690	6.06	4,199,494	0.24	12
20 CBCOG	7	3.68	654,604	2.21	558,379	6.42	90,493,902	5.25	138
21 LRGVDC	5	2.63	1,124,940	3.74	1,184,167	5.21	28,643,435	1.66	25
22 TCOG	2	1.05	197,697	0.56	192,839	5.62	17,072,938	0.99	86
23 CTCOG	2	1.05	413,119	1.19	427,552	5.29	8,978,260	0.52	22
24 MRGDC	8	4.21	114,730	0.31	164,914	3.81	2,705,491	0.16	24
Totals	**190**	**100**	**28,637,988**	**100**	**25,213,445**	**6.22**	**1,722,333,910**	**100**	**60**

*Pounds per person per day

**Average, at 2010 disposal rate



No.	Abbreviation	Name
1	PRPC	PANHANDLE RPC
2	SPAG	SOUTH PLAINS AOG
3	NRPC	NORTEX RPC
4	NCTCOG	NORTH CENTRAL TEXAS COG
5	ATCOG	ARK-TEX COG
6	ETCOG	EAST TEXAS COG
7	WCTCOG	WEST CENTRAL TEXAS COG
8	RGCOG	RIO GRANDE COG
9	PBRPC	PERMIAN BASIN RPC
10	CVCOG	CONCHO VALLEY COG
11	HOTCOG	HEART OF TEXAS COG
12	CAPCOG	CAPITAL AREA COG
13	BVCOG	BRAZOS VALLEY COG
14	DETCOG	DEEP EAST TEXAS COG
15	SETRPC	SOUTH EAST TEXAS RPC
16	HGAC	HOUSTON-GALVESTON AC
17	GCRPC	GOLDEN CRESCENT RPC
18	AACOG	ALAMO AREA COG
19	STDC	SOUTH TEXAS DC
20	CBCOG	COASTAL BEND COG
21	LRGVDC	LOWER RIO GRANDE VALLEY DC
22	TCOG	TEXOMA COG
23	CTCOG	CENTRAL TEXAS COG
24	MRGDC	MIDDLE RIO GRANDE DC

Abbreviation	Name
RPC	REGIONAL PLANNING COMMISSION
AOG	ASSOCIATION OF GOVERNMENTS
COG	COUNCIL OF GOVERNMENTS
AC	AREA COUNCIL
DC	DEVELOPMENT COUNCIL

Figure 3. Texas Councils of Governments Map

MSW Importation and Exportation

Mexican imports. For 2010, six landfills reported that they received MSW from Mexico for a total of 2143 tons, up from 1375 tons in 2009.

State imports. Also, for 2010, eleven facilities reported the importation of 209,588 tons of MSW from Arkansas, Louisiana, New Mexico, and Oklahoma. This amount was a decrease from the 316,860 tons reported in 2009.

Waste exports. There are no requirements to track MSW exported out of Texas.

MSW Generation

US EPA definition. The US EPA defines MSW generation as the sum of: disposal (landfilling and combustion); recycling (including composting); and the net of imports and exports.

Texas recycling. Since the recycling facilities in Texas that are authorized by notification are not required to report, it is difficult to obtain an accurate statewide recycling rate. Furthermore, local governments, retail shops, schools, hospitals, other commercial and institutional generators that may recycle, and other recyclers are not required to report to the state.

Diversion. Landfills are required to report the amount of waste diverted from within the facility authorized boundary. Recycling efforts that divert materials before reaching the gate at permitted, registered, or authorized processing facilities are not required to be reported to the state and are therefore not captured in this summary.

For 2010, 146 permitted and registered facilities reported a total of 1,623,595 tons of materials that were diverted from landfills for recycling or reuse. In addition, 9 permitted/registered composting facilities reported that 166,342 tons of waste materials were processed during composting operations.

Impact of Recycling on MSW Disposal

Landfill disposal is one way that MSW is managed in Texas. The incentive to minimize the need for future disposal capacity in the state can be attributed to costs associated with potential environmental impacts, engineering design, construction, and general operating expenses. These costs are passed on to citizens. In addition, locating, permitting, and constructing a new landfill can be major considerations.

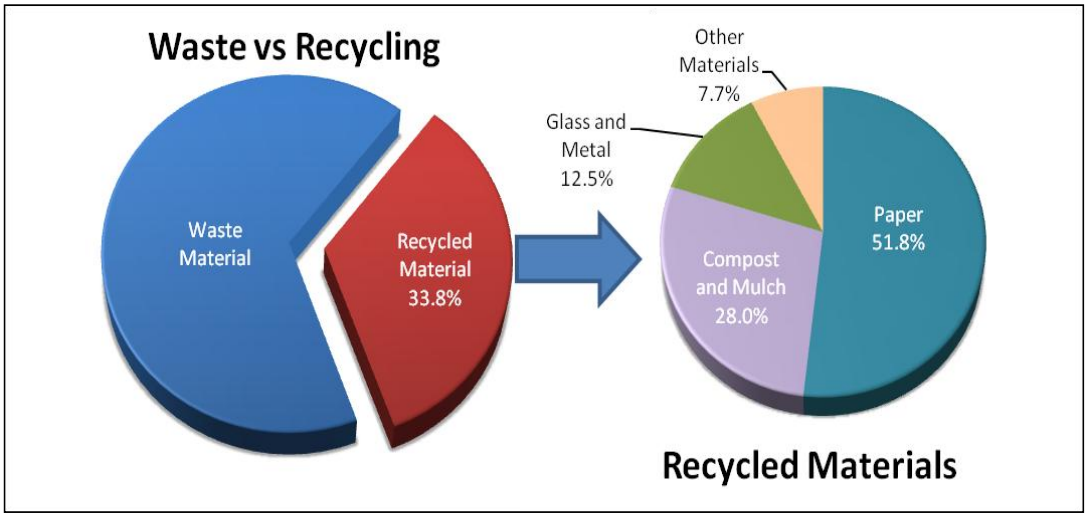
The long-term solution to adequate landfill capacity is not more or larger landfills. The solution lies in the US EPA's "4 Rs"–reduce, reuse, recycle, and rebuy–which, when made a part of the waste management process within our communities, can reduce waste disposal and can benefit the environment. In the management of waste, recycling can have a measurable impact on the amount of waste disposed.

Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, and numerous other items are recycled every day. Citizens may choose reusable items over disposable items. New programs are developed every year that increase the impact that reducing, reusing, and recycling have on preserving disposal capacity. The TCEQ promotes recycling and information regarding recycling programs can be found on the agency's website at <www.tceq.texas.gov/p2/P2Recycle/recycling.html>.

Currently, the impact of recycling in Texas is difficult to measure. Figure 4, the latest available information from US EPA [iv], indicates the amount of material recycled as a percent of all MSW generated nationally as well as the breakdown of the types of recycled materials.

Figure 4. What is Recycled?

Source data: US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2009 <www.epa.gov/osw/nonhaz/municipal/pubs/msw2009-fs.pdf>

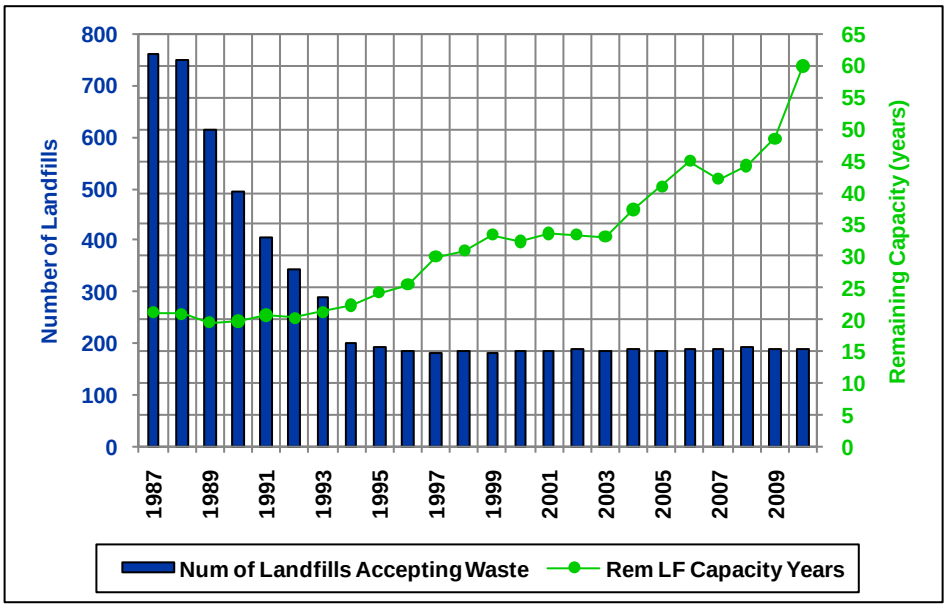


Trends Analyses

Landfill closures. In 1987, there were 763 authorized landfills accepting waste. The reduction of active landfills between the late 1980's and mid 1990's was mostly due to the stringent requirements of the Federal Resource Conservation and Recovery Act (RCRA) Subtitle D. However, since the late 1990's this decreasing trend has leveled out. According to the submitted annual report data, 190 facilities actively accepted waste in 2010.

Even with fewer landfills in the state, capacity has grown significantly in the past seventeen years. This trend indicates a continued move away from smaller community landfills and toward larger regional landfills. Figure 5 depicts the number of active landfills and the corresponding remaining capacity over time.

Figure 5. Number of Active Landfills and Remaining Capacity



Capacity reserve. From 1986 to the mid 1990s, the state's reserve capacity for disposal was less than 22 years, increasing steadily since that time. The current reserve capacity for disposal is approximately 60 years. The trend can be attributed primarily to increases in available volume of permitted disposal capacity and to continued improvements in landfill technology. The technological improvements have more than doubled the overall waste compaction rate through the last twenty years. In 1988, the average compaction rate was approximately 650 pounds of waste per cubic yard. The average in 2000 was approximately 1,100 pounds per cubic yard, and the current average compaction rate is nearly 1,390 pounds per cubic yard. While a small number of landfills did report improved compaction in 2010, the relative flattening of the trend may indicate that available and affordable landfill compaction technologies are nearing their peak efficiencies.

Landfill size. In addition to improvements in the operation of landfills, the size and service areas of MSW landfills have continued to grow. In 1986, the state-wide average landfill size was 50 acres with an average depth of 6.5 feet and an average height of 13 feet. According to data submitted by 185 active landfills, the state-wide average landfill size was 639 acres in 2010. Part of the increase was due to two landfills (Blue Ridge Landfill and Austin Community Recycling & Disposal Facility) adding acreage through issued permit amendments.

The 2010 average maximum permitted depth for MSW landfills was 36 feet (180 landfills reporting) and the average maximum permitted height was 86 feet (165 landfills reporting). There was a decrease in the number of regional landfills with a maximum height over 100 feet (46 in 2010, down from 56 in 2009). The number of landfills with a maximum permitted height over 200 feet increased from 13 in 2009 to 14 in 2010.

Counties served. The 190 active landfills in the state reported the number of counties they served in 2010, as detailed below in Table 7. Service to more than one county was provided by 121 landfills (64 percent). Table 8 shows the number of active landfills in each Texas County.

Number of Landfills	Counties Served
69	1
75	2 – 5
27	6 – 10
10	11 – 15
6	16 – 20
3	>20

Table 7. Number of Texas Counties Served by MSW Landfills for 2010

Table 8. Number of Active Landfills by County for 2010

Anderson	0	Crane	1	Hartley	0	Madison	0	San Patricio	0
Andrews	1	Crockett	0	Haskell	1	Marion	0	San Saba	0
Angelina	1	Crosby	0	Hays	0	Martin	1	Schleicher	1
Aransas	0	Culberson	0	Hemphill	0	Mason	1	Scurry	1
Archer	0	Dallam	1	Henderson	0	Matagorda	0	Shackelford	0
Armstrong	1	Dallas	4	Hidalgo	4	Maverick	1	Shelby	0
Atascosa	0	Dawson	1	Hill	1	McCulloch	1	Sherman	0
Austin	0	Deaf Smith	1	Hockley	1	McLennan	2	Smith	1
Bailey	2	Delta	0	Hood	0	McMullen	1	Somervell	0
Bandera	0	Denton	4	Hopkins	0	Medina	0	Starr	3
Bastrop	0	DeWitt	0	Houston	0	Menard	1	Stephens	0
Baylor	0	Dickens	0	Howard	1	Midland	1	Sterling	0
Bee	0	Dimmit	1	Hudspeth	2	Milam	0	Stonewall	0
Bell	1	Donley	0	Hunt	1	Mills	0	Sutton	0
Bexar	2	Duval	1	Hutchinson	0	Mitchell	1	Swisher	1
Blanco	0	Eastland	0	Irion	1	Montague	0	Tarrant	3
Borden	0	Ector	1	Jack	0	Montgomery	1	Taylor	0
Bosque	0	Edwards	0	Jackson	0	Moore	2	Terrell	1
Bowie	2	El Paso	3	Jasper	0	Morris	0	Terry	2
Brazoria	2	Ellis	3	Jeff Davis	0	Motley	1	Throckmorton	0
Brazos	1	Erath	1	Jefferson	3	Nacogdoches	1	Titus	1
Brewster	2	Falls	0	Jim Hogg	0	Navarro	1	Tom Green	1
Briscoe	0	Fannin	0	Jim Wells	1	Newton	1	Travis	4
Brooks	1	Fayette	0	Johnson	2	Nolan	1	Trinity	0
Brown	1	Fisher	0	Jones	2	Nueces	2	Tyler	0
Burleson	0	Floyd	1	Karnes	0	Ochiltree	1	Upshur	0
Burnet	0	Foard	0	Kaufman	0	Oldham	1	Upton	2
Caldwell	0	Fort Bend	3	Kendall	0	Orange	0	Uvalde	2
Calhoun	0	Franklin	0	Kenedy	0	Palo Pinto	0	Val Verde	1
Callahan	0	Freestone	0	Kent	0	Panola	0	Van Zandt	0
Cameron	1	Frio	0	Kerr	1	Parker	1	Victoria	1
Camp	0	Gaines	1	Kimble	1	Parmer	0	Walker	0
Carson	1	Galveston	3	King	0	Pecos	1	Waller	0
Cass	0	Garza	1	Kinney	1	Polk	1	Ward	1
Castro	1	Gillespie	1	Kleberg	1	Potter	1	Washington	0
Chambers	2	Glasscock	1	Knox	0	Presidio	1	Webb	1
Cherokee	1	Goliad	0	La Salle	0	Rains	0	Wharton	0
Childress	1	Gonzales	0	Lamar	1	Randall	1	Wheeler	1
Clay	0	Gray	3	Lamb	4	Reagan	1	Wichita	2
Cochran	1	Grayson	2	Lampasas	0	Real	0	Wilbarger	0
Coke	1	Gregg	1	Lavaca	0	Red River	0	Willacy	0
Coleman	1	Grimes	0	Lee	0	Reeves	1	Williamson	1
Collin	1	Guadalupe	1	Leon	0	Refugio	0	Wilson	0
Collingsworth	1	Hale	1	Liberty	0	Roberts	0	Winkler	0
Colorado	1	Hall	1	Limestone	1	Robertson	0	Wise	0
Comal	1	Hamilton	0	Lipscomb	1	Rockwall	0	Wood	0
Comanche	0	Hansford	1	Live Oak	0	Runnels	0	Yoakum	1
Concho	0	Hardeman	0	Llano	0	Rusk	1	Young	0
Cooke	0	Hardin	1	Loving	0	Sabine	0	Zapata	1
Coryell	1	Harris	14	Lubbock	2	San Augustine	0	Zavala	2
Cottle	0	Harrison	0	Lynn	1	San Jacinto	0		

Historical Data for MSW Landfills in Texas

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal*	Number of Active Landfills	Number of Inactive Landfills**	Remaining Capacity (Cubic Yards)	Remaining Capacity (Tons)	Remaining Capacity (Years)
1988	18,114,295	16,668,639	5.95	750	84	1,162,374,628	377,771,754	20.9
1989	18,531,001	16,806,521	6.04	616	83	1,111,902,033	361,368,161	19.5
1990	19,969,615	16,986,510	6.44	493	142	1,124,524,795	393,583,678	19.7
1991	19,973,622	17,349,000	6.31	405	135	1,183,699,041	414,294,664	20.7
1992	21,675,661	17,655,650	6.73	345	77	1,193,233,770	440,730,048	20.3
1993	21,517,063	18,031,484	6.54	289	62	1,205,635,627	456,161,796	21.2
1994	21,808,274	18,378,185	6.50	199	58	1,269,565,453	483,752,986	22.2
1995	21,639,678	18,723,991	6.33	191	39	1,071,520,039	523,633,365	24.2
1996	21,738,137	19,128,261	6.23	186	35	1,023,799,597	554,095,949	25.5
1997	22,094,777	19,439,337	6.23	181	37	1,169,628,669	659,694,441	29.9
1998	23,259,425	19,759,614	6.45	184	29	1,300,609,247	716,302,147	30.8
1999	25,791,066	20,044,141	7.05	179	34	1,557,349,331	862,778,821	33.4
2000	28,034,517	20,851,820	7.37	183	44	1,633,321,824	904,891,939	32.3
2001	27,938,751	21,235,018	7.18	186	42	1,710,713,869	939,383,633	33.6
2002	29,061,966	21,779,893	7.31	190	40	1,691,970,227	971,314,962	33.4
2003	29,073,315	22,118,509	7.20	184	39	1,506,807,849	963,972,887	33.1
2004	29,581,785	22,490,022	7.21	189	34	1,826,587,075	1,134,462,509	37.4
2005	29,671,151	22,859,968	7.11	186	32	1,870,868,394	1,217,845,562	41.0
2006	30,453,702	23,507,783	7.10	187	28	2,110,807,960	1,366,311,822	45.0
2007	33,183,488	23,904,380	7.61	188	28	2,158,501,232	1,403,592,411	42.2
2008	33,078,196	24,326,974	7.45	191	35	2,167,272,920	1,439,621,096	44.3
2009	32,264,262	24,782,302	7.13	190	20	2,351,154,567	1,567,806,257	48.6
2010	**28,637,988**	**25,213,445**	**6.22**	**190**	**18**	**2,483,194,375**	**1,722,333,910**	**60.1**

*Using the Texas definition of MSW described on page 1 of this report.

**Number of inactive facilities that submitted annual reports. Excludes landfills reporting Post-Closure status

Individual MSW Landfill Facility Data

Active landfills, organized by COG Region, Landfill Type, & Permit Number
All values rounded to the nearest whole number

Key:
2010 Tons – Total Tons Landfilled in Fiscal Year 2010
Rem Yds – Remaining Landfill Capacity in Cubic Yards
Rate – Compaction Rate at the Landfill in Pounds per Cubic Yards
Rem Tons – Remaining Landfill Capacity in Equivalent Tons (based on landfill compaction rate)
Rem Yrs – Remaining Landfill Capacity in Years (based on operator estimate where appropriate or on permit volumes and waste acceptance rates)
* Numbers estimated from billing data and permit application

PANHANDLE REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
1	73	City of Amarillo Landfill	Potter	1	215,036	72,347,942	800	28,939,177	100
1	211	City of Dumas Landfill	Moore	1	13,517	77,052	800	30,821	2
1	215	City of Hereford Landfill	Deaf Smith	4AE	3,518	339,383	850	144,238	35
1	414	Armstrong County Landfill	Armstrong	4AE	2,148	266,381	500	66,595	31
1	445	City of Dimmitt Landfill	Castro	1AE	7,162	862,400	750	323,400	36
1	570	City of McLean Landfill	Gray	1AE	710	554,562	800	221,825	14
1	589	City of Pampa Landfill	Gray	4AE	187	471,184	1,000	235,592	80
1	791	Cal Farley's Boys Ranch	Oldham	4AE	550	143,500	400	28,700	52
1	876	City of Perryton Landfill	Ochiltree	1AE	6,415	1,416,855	890	630,501	95
1	955	City of Wellington Landfill	Collingsworth	1AE	5,395	541,999	800	216,799	40
1	1009	City of Tulia MSW Landfill	Swisher	1AE	5,428	824,471	850	350,400	65

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
1	1038	City of Dalhart Municipal Landfill	Dallam	1AE	8,753	435,135	785	170,791	20
1	1164	City of Panhandle MSW Landfill	Carson	1AE	2,601	752,312	750	282,117	109
1	1663	Southwest Landfill	Randall	1	160,309	4,274,091	1,329	2,840,133	18
1	1943	City of Booker Landfill	Lipscomb	1AE	1,427	465,225	850	197,721	62
1	2238	City of Pampa Landfill	Gray	1	54,146	9,062,828	1,000	4,531,414	84
1	2263	City of Childress Landfill	Childress	1AE	5,383	2,449,946	800	979,978	125
1	2266	City of Memphis	Hall	1AE	8,263	1,040,961	800	416,384	50
1	2281	City of Shamrock	Wheeler	1AE	4,392	351,310	800	140,524	32
1	2285	City of Dumas Landfill	Moore	4AE	4,886	289,609	800	119,444	22
1	2352	City of Spearman MSW Landfill	Hansford	1AE	3,889	1,073,744	955	512,713	146

SOUTH PLAINS ASSOCIATION OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
2	69	Caliche Canyon Landfill	Lubbock	1	29,707	923,038	900	415,367	14
2	363	City of Amherst Landfill	Lamb	4AE	63	4,157	400	831	6
2	549	City of Matador Landfill	Motley	1AE	4,718	510,843	800	204,337	43
2	564	City of Muleshoe Landfill	Bailey	4AE	2,377	186,764	800	74,706	25
2	583	City of Olton Landfill	Lamb	1AE	6,621	984,462	666	327,826	48
2	1298	City of Littlefield Landfill	Lamb	4AE	5,298	335,687	1,400	234,981	30
2	1733	City of Sundown Landfill	Hockley	4AE	702	232,135	850	98,657	140
2	2157	City of Plainview	Hale	1	33,180	10,403,075	719	3,739,905	113

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
2	2170	Brownfield MSW Landfill	Terry	1	11,706	4,522,453	961	2,173,039	186
2	2207	City of Floydada Landfill	Floyd	1AE	6,285	929,339	830	385,676	61
2	2217	Yoakum County Landfill	Yoakum	1AE	7,587	2,044,435	800	817,774	117
2	2227	City of Post Landfill	Garza	1AE	4,872	231,144	650	75,121	16
2	2252	West Texas Regional Disposal Facility	Lubbock	1	277,526	108,782,656	1,301	70,763,118	255
2	2268	City of Morton Landfill	Cochran	4AE	103	808,252	400	161,650	140
2	2274	City of Littlefield Landfill	Lamb	1AE	7,015	1,347,800	1,400	943,460	95
2	2291	City of Muleshoe Landfill	Bailey	1AE	6,978	541,147	800	216,459	31
2	2293	City of Meadow Landfill	Terry	1AE	13,491	837,742	800	335,097	25
2	2328	Tahoka MSW Landfill	Lynn	1AE	9,640	995,432	850	423,058	58

NORTEX REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
3	1428	City of Wichita Falls Landfill	Wichita	1	156,631	72,195,147	1,000	36,097,574	200
3	1571	IESI Buffalo Creek Landfill	Wichita	1	173,609	30,469,017	1,158	17,641,561	102

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
4	42	Skyline Landfill	Ellis	1	1,009,405	35,267,000	1,460	25,745,000	26
4	47	IESI Weatherford Landfill	Parker	1	188,652	3,674,239	1,258	2,311,096	11
4	62	McCommas Bluff Landfill	Dallas	1	1,362,266	99,810,182	1,383	69,018,740	51
4	218	Southeast Landfill	Tarrant	1	319,001	3,847,177	1,469	2,825,752	9

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
4	358	Arlington Landfill	Tarrant	1	917,823	13,491,794	1,791	12,081,901	13
4	534	City of Cleburne Landfill	Johnson	1	1,040	28,863	1,000	14,432	14
4	664	Stephenville Municipal Landfill	Erath	4	1,821	636,802	850	270,641	54
4	996	City of Grand Prairie Landfill	Dallas	1	163,080	13,513,171	1,868	12,621,302	47
4	1025	DFW Landfill	Denton	1	1,218,417	16,936,000	1,960	16,597,000	10
4	1195	Republic Maloy Landfill	Hunt	1	120,628	6,651,585	1,441	4,792,467	40
4	1209	CSC Disposal and Landfill	Ellis	1	60,472	31,237,672	1,544	24,115,483	399
4	1312	Camelot Landfill	Denton	1	305,478	7,537,130	1,624	6,120,150	20
4	1394	Hunter Ferrell Landfill	Dallas	1	156,384	8,590,224	1,515	6,507,095	41
4	1417	Turkey Creek Landfill	Johnson	1	279,782	11,880,262	1,440	8,553,789	31
4	1590	City of Denton Landfill	Denton	1	143,130	12,226,049	1,216	7,433,438	52
4	1745	ECD Landfill	Ellis	1	56,914	40,148,041	1,467	29,448,588	517
4	1749	Lewisville Landfill	Denton	4	162,189	22,699,902	1,783	20,236,963	125
4	1895	City of Garland Charles M Hinton Landfill	Dallas	1	311,393	28,782,839	1,200	17,269,703	55
4	1983	IESI Fort Worth C&D Landfill	Tarrant	4	381,043	5,987,047	1,556	4,657,922	12
4	2190	Corsicana Regional Landfill	Navarro	1	98,854	24,564,601	1,000	12,282,301	124
4	2294	121 Regional Disposal Facility	Collin	1	762,517	126,928,420	1,359	86,247,861	113

ARK-TEX COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
5	576	New Boston Landfill	Bowie	1	137,294	1,959,000	1,080	1,057,860	8
5	797	Pleasant Oaks Landfill	Titus	1	71,972	20,287,942	1,569	15,915,891	221
5	1454	Paris Landfill	Lamar	1	107,341	17,105,000	1,340	11,460,000	108
5	1898	Lone Star AAP Area A Landfill	Bowie	1	54	2,035,210	850	864,964	136

EAST TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
6	1249	IESI East Texas Regional Landfill	Rusk	1	113,427	10,698,349	1,200	6,419,010	57
6	1327	Pinehill Landfill	Gregg	1	201,940	16,873,806	1,779	15,009,250	74
6	1614	Royal Oaks Landfill	Cherokee	1	73,034	2,851,604	1,594	2,272,728	31
6	1972	Greenwood Farms Landfill	Smith	1	234,893	106,963,366	2,032	108,674,780	463

WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
7	50	Sweetwater Landfill	Nolan	4AE	2,171	298,961	400	59,792	11
7	420	Colorado City MSW Facility	Mitchell	1AE	2,370	286,423	700	100,248	21
7	1302	Coleman Landfill	Coleman	4AE	93	14,030	500	3,508	28
7	1463	City of Snyder Landfill	Scurry	1	35,775	10,974,245	1,000	5,487,123	153
7	1469	Abilene Regional Landfill	Jones	1	178,208	90,473,042	1,443	65,278,464	366

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
7	1562	Brownwood Regional MSW Disposal Facility	Brown	1	75,255	18,637,087	1,100	10,250,398	100
7	1604	Haskell Municipal Landfill	Haskell	1AE	10,030	897,475	700	314,116	26
7	2325	Abilene Environmental Landfill	Jones	1	97,189	19,930,628	1,596	15,904,641	60

RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
8	495	Hudspeth County Dell City Landfill	Hudspeth	1AE	1,400	210,316	666	70,035	27
8	729	McCombs Landfill	El Paso	1	4	16,384,489	1,053	8,626,434	11
8	957	Hudspeth County Sierra Blanca Landfill	Hudspeth	1AE	4,978	1,336,536	850	568,028	72
8	1276	Big Bend National Park Landfill	Brewster	1AE	618	105,597	750	39,599	18
8	1422	Fort Bliss MSW Landfill	El Paso	1	15,861	106,883	792	42,331	3
8	1737	City of Presidio	Presidio	1AE	5,527	784,974	650	255,117	46
8	2197	City of Alpine Landfill	Brewster	1AE	11,612	3,580,824	329	589,210	45
8	2284	Clint Municipal Landfill	El Paso	1	458,323	22,589,554	1,053	11,893,400	21

PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
9	39	City of Seminole Landfill	Gaines	1AE	10,962	2,594,283	600	778,285	60
9	171	City of Andrews Landfill	Andrews	1AE	11,587	1,112,187	850	472,679	40
9	288	City of Big Spring	Howard	1	35,384	802,344	765	306,896	7
9	427	City of Crane	Crane	1AE	3,996	17,036	700	5,963	1

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
9	517	Lamesa Landfill	Dawson	1	14,065	1,607,326	852	684,721	49
9	566	City of McCamey Landfill	Upton	4AE	1,634	1,256,762	750	471,286	288
9	673	Terrell County Landfill	Terrell	4AE	33	32,903	300	4,935	150
9	691	Upton County Landfill	Upton	4AE	30	95,432	400	19,086	424
9	772	Monahans Landfill	Ward	1AE	12,524	1,155,659	650	375,589	30
9	976	City of Fort Stockton Landfill	Pecos	1AE	12,482	381,290	800	152,516	12
9	1605	City of Midland Landfill	Midland	1	193,646	34,891,651	1,491	26,011,726	58
9	2120	City of Pecos Landfill	Reeves	1AE	11,975	941,206	850	400,012	28
9	2154	Glasscock County Landfill	Glasscock	1AE	454	79,981	250	10,000	23
9	2158	Charter Waste Landfill	Ector	1	243,495	34,545,754	1,538	26,565,685	109
9	2189	City of Stanton Landfill	Martin	1AE	4,060	589,297	1,000	294,648	73

CONCHO VALLEY COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
10	26	City of Junction	Kimble	4AE	1,325	241,983	1,000	120,992	5
10	79	San Angelo Landfill	Tom Green	1	137,256	6,170,242	1,000	3,085,121	22
10	86	Big Lake Landfill	Reagan	1AE	3,384	1,099,659	500	274,915	91
10	195	Mason Landfill	Mason	1AE	2,323	97,521	1,000	48,760	21
10	614	Robert Lee Landfill	Coke	4AE	21	26,623	850	11,315	3
10	1270	Barnhart Landfill	Irion	1AE	1,771	72,550	530	19,226	11
10	1404	City of Menard Landfill	Menard	4AE	28	12,510	850	5,317	50

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
10	1732	City of Brady Landfill	McCulloch	1AE	9,187	2,560,991	900	1,152,446	85
10	2264	City of Eldorado Landfill	Schleicher	1AE	8,552	1,403,718	1,500	1,052,789	123

HEART OF TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
11	241	Itasca Landfill	Hill	1	197,266	33,083,716	2,062	34,109,311	173
11	948	City of Waco Landfill	McLennan	1	250,861	7,516,821	1,055	3,965,123	16
11	1558	Mexia Landfill	Limestone	1	42,232	8,028,603	1,786	7,169,542	170
11	1646	Lacy Lakeview Recycling & Disp Fac	McLennan	1	93,337	1,800,182	1,400	1,260,127	13

CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
12	249	Austin Community Recycling & Disp Fac	Travis	1	323,182	14,960,231	1,480	11,070,571	29
12	1405	Williamson County Recycling & Disp Fac	Williamson	1	267,267	62,396,581	1,500	46,797,436	124
12	1447	BFI Sunset Farms Landfill	Travis	1	624,828	10,303,997	1,335	6,877,918	5
12	1841	IESI Travis County C&D Landfill	Travis	4	129,863	3,044,771	1,260	1,918,206	15
12	2123	Texas Disposal Systems Landfill	Travis	1	641,573	27,714,868	1,360	18,846,110	29

BRAZOS VALLEY COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
13	1444	Rock Prairie Road Landfill	Brazos	1	290,875	453,096	1,470	333,025	1

DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
14	720	City of Nacogdoches Landfill	Nacogdoches	1	74,938	3,685,162	800	1,474,065	20
14	1384	Polk County Landfill	Polk	1	119,213	8,979,272	1,399	6,281,000	53
14	2105	Angelina County Waste Mgmnt Center	Angelina	1	119,679	4,551,800	1,200	2,731,080	21
14	2242	Newton County Landfill	Newton	1	201,975	44,004,848	1,520	33,443,684	155

SOUTH EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
15	1486	City of Beaumont MSW Landfill	Jefferson	1	264,037	20,453,233	1,177	12,036,728	51
15	1815	City of Port Arthur Landfill	Jefferson	1	194,694	17,247,167	1,100	9,485,942	48
15	2027	BFI Golden Triangle Landfill	Jefferson	1	198,472	9,720,480	2,749	13,360,800	67
15	2214	IESI Hardin County Landfill	Hardin	1	45,515	1,497,979	1,200	898,787	20

HOUSTON-GALVESTON AREA COUNCIL

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
16	203	Altair Landfill	Colorado	1	37,786	1,032,391	1,200	619,435	16
16	261	McCarty Road Landfill	Harris	1	1,793,086	32,660,674	1,917	31,305,256	18
16	1149	Galveston County Landfill	Galveston	1	258,026	6,585,658	1,557	5,126,935	20
16	1193	Whispering Pines Landfill	Harris	1	48	10,902,445	2,000	10,902,445	10
16	1301	Addicks - Fairbanks Landfill	Harris	4	45,536	1,016,530	1,400	711,571	13
16	1307	Atascocita Landfill	Harris	1	939,804	24,001,233	1,800	21,601,110	21
16	1403	Casco Landfill	Harris	4	30,255	2,085,007	900	938,253	29

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
16	1502	Chambers County Landfill	Chambers	1	30,755	407,179	1,500	305,384	10
16	1505	Blue Ridge Landfill	Fort Bend	1	516,629	151,185,753	1,371	103,637,834	200
16	1535	Baytown Landfill	Chambers	1	343,409	11,596,224	1,650	9,566,885	33
16	1539	Seabreeze Environmental Landfill	Brazoria	1	546,014	27,851,067	1,600	22,280,854	36
16	1540	Greenshadow Landfill	Harris	4	91,443	3,339,025	1,600	2,671,220	25
16	1565	Fairbanks Landfill	Harris	4	4	9,520	1,400	6,664	1
16	1586	Greenbelt Landfill	Harris	4	162,006	4,323,233	800	1,729,293	11
16	1599	Greenhouse Road Landfill	Harris	4	54,066	6,873,965	790	2,715,216	50
16	1708	Dixie Farm Road Landfill	Brazoria	4	34,574	2,513,987	880	1,106,154	16
16	1721	Coastal Plains Landfill	Galveston	1	523,005	15,541,292	1,760	13,676,337	23
16	1752	Security Landfill	Montgomery	1	372,515	16,090,208	1,600	12,872,166	31
16	1797	Sprint Fort Bend County Landfill	Fort Bend	4	240,543	18,102,620	1,140	10,318,493	39
16	1849	North County Landfill	Galveston	4	12,305	3,689,866	2,613	4,820,810	50
16	1921	Cougar Landfill	Harris	4	114,201	534,724	1,400	374,307	2
16	2185	Hawthorn Park Landfill	Harris	4	109,034	2,261,308	1,600	1,809,046	11
16	2240	Ralston Road Landfill	Harris	4	65,623	373,856	1,000	186,928	3
16	2270	Fort Bend Regional Landfill	Fort Bend	1	567,146	43,413,923	1,200	26,048,354	49
16	2304	Tall Pines Landfill	Harris	4	223,881	4,731,087	1,000	2,365,544	10
16	2344	Lone Star Recycling and Disposal Facility	Harris	4	102,449	14,301,008	1,000	7,150,504	37

GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
17	1522	City of Victoria Landfill	Victoria	1	135,178	7,667,475	962	3,688,055	27

ALAMO AREA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
18	66	Mesquite Creek Landfill	Comal	1	330,012	14,125,193	1,750	12,359,544	29
18	1410	Tessman Road Landfill	Bexar	1	899,055	79,148,793	1,242	49,151,400	55
18	1506	City of Kerrville Landfill	Kerr	1	56,214	746,123	990	369,331	7
18	1848	Beck Landfill	Guadalupe	4	205,897	7,477,632	1,300	4,860,461	17
18	1995	City of Fredericksburg Landfill	Gillespie	1	25,175	2,019,310	1,180	1,191,393	46
18	2093	Covel Gardens Landfill	Bexar	1	971,629	113,967,589	1,800	102,570,830	91

SOUTH TEXAS DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
19	783	San Ygnacio Landfill	Zapata	1AE	2,698	336,288	1,000	168,144	14
19	954	City of Roma Landfill	Starr	1AE	4,038	140,511	850	59,717	15
19	1033	City of La Grulla Landfill	Starr	4AE	24	62,318	850	26,485	86
19	1693	City of Laredo Sanitary Landfill	Webb	1	326,554	6,088,191	1,296	3,945,148	12
19	1762	Starr County Landfill	Starr	1AE	30,418	0	666	0	0

COASTAL BEND COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
20	235	City of Kingsville Landfill	Kleberg	1	29,154	3,550,856	817	1,450,524	50

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
20	262	City of Alice Landfill	Jim Wells	1	31,482	1,241,317	1,394	865,198	27
20	379	Brooks County Landfill	Brooks	4AE	222	302,196	400	60,439	29
20	571	McMullen County Landfill	McMullen	1AE	1,500	16,666	225	1,875	8
20	1481	Duval County Landfill	Duval	4AE	6,860	0	1,000	0	0
20	2267	El Centro Landfill	Nueces	1	143,733	15,870,434	1,483	11,767,927	82
20	2269	Cefe Valenzuela Landfill	Nueces	1	441,653	128,315,863	1,190	76,347,939	173

LOWER RIO GRAND VALLEY DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
21	956	Edinburg Regional Sanitary Landfill	Hidalgo	1	313,556	9,749,673	1,300	6,337,287	17
21	1273	Brownsville MSW Landfill	Cameron	1	268,838	29,921,896	1,140	17,055,481	38
21	1727	Precinct 3 - Penitas Landfill	Hidalgo	1AE	3,959	215	1,200	129	0
21	1948	BFI-Rio Grande Valley Landfill	Hidalgo	1	459,554	1,562,681	1,491	1,164,979	3
21	2302	Edinburg Regional Type IV Landfill	Hidalgo	4	79,033	11,673,024	700	4,085,559	37

TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
22	523	Hillside Landfill	Grayson	1	75,940	12,061,000	1,080	6,513,000	94
22	2290	TASWA Disposal and Recycling Facility	Grayson	1	121,757	24,472,625	863	10,559,938	57

CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
23	692	Temple Recycling & Disposal Facility	Bell	1	388,682	10,395,782	1,400	7,277,047	17
23	1866	Fort Hood Landfill	Coryell	1	24,437	3,093,114	1,100	1,701,213	44

MIDDLE RIO GRANDE DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2010 Tons	RemYds	Rate	RemTons	RemYrs
24	207	City of Del Rio Municipal Landfill	Val Verde	1	61,034	1,409,594	600	422,878	7
24	630	City of Sabinal Landfill	Uvalde	4AE	6	3,691	400	738	8
24	1308	Crystal City MSW Facility	Zavala	1AE	7,579	1,505,492	850	639,834	83
24	1725	City of Uvalde Landfill	Uvalde	1	27,292	858,199	1,000	429,099	15
24	1918	City of Eagle Pass Type IV Landfill	Maverick	4AE	10,697	1,189,613	750	446,105	28
24	2225	City of Carrizo Springs Landfill	Dimmit	1AE	4,230	1,720,700	600	516,210	60
24	2303	Zavala County MSWF Landfill	Zavala	1AE	2,816	218,557	550	60,103	30
24	2354	Fort Clark Springs Landfill *	Kinney	1AE	1,076	476,310	800	190,524	98

Individual Facility Data for Non-Landfill Permitted and Registered Facilities

Active facilities, organized by COG Region and Facility Permit or Registration Number

Key:
Type 5AC - Medical waste autoclave facility
Type 5GG - Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility
Type 5MW -Medical waste processor
Type 5RC - Mixed waste composting facility
Type 5RR - Materials recovery facility (MRF)
Type 5TL – Liquid Transfer Station
Type 5TS - Transfer station
Type 5WI - Incinerator (no electrical power generation)

2010 Tons - Total tons handled in fiscal year 2010 in terms of major permitted activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated). For a liquid waste processing facility, waste is reported in gallons but converted here to approximate tons equivalent.
* Facility conducted recycling operations only for FY 2010

PANHANDLE REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
1	76	City of Amarillo Transfer Station	Potter	5TS	148,980
1	40015	City of Borger Transfer Station	Hutchinson	5TS	14,001
1	40026	City of Canadian Transfer Station	Hemphill	5TS	5,426
1	40031	City of Cactus Transfer Station	Moore	5TS	1,939
1	40109	Stratford Transfer Station	Sherman	5TS	69
1	40192	City of Clarendon	Donley	5TS	535

SOUTH PLAINS ASSOCIATION OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
2	2231	South Plains Disposal	Lubbock	5GG	6206

COG	Permit/Registration	Site Name	County	Type	2010 Tons
2	40051	City of Levelland Transfer Station	Hockley	5TS	8596
2	40176	Caliche Canyon Transfer Station	Lubbock	5TS	280

NORTEX REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
3	2229	Liquid Waste Processing	Wichita	5GG	18,169
3	2295	IESI Bowie Transfer Station	Montague	5TS	42,386
3	40059	City of Vernon Transfer Station	Wilbarger	5TS	16,091
3	40144	City of Seymour Transfer Station	Baylor	5TS	682

NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
4	12	City of Garland Transfer Station	Dallas	5TS	99,470
4	53	Lookout Drive Transfer Station	Collin	5TS	132,569
4	60	Fair Oaks Transfer Station	Dallas	5TS	52,816
4	227	City of University Park Transfer Station	Dallas	5TS	12,806
4	1145	Bachman Transfer Station	Dallas	5TS	162,923
4	1225	Cold Springs Processing & Disposal	Tarrant	5GG	69,734
4	1263	City of Mesquite Transfer Station	Dallas	5TS	46,314
4	1421	PSC Recovery Systems LLC	Dallas	5GG	53,383
4	1453	Oak Cliff Transfer Station	Dallas	5TS	57,943
4	1494	Parkway Transfer Station	Collin	5TS	124,873
4	2045	Custer Road Transfer Station	Collin	5TS	215,700
4	2069	Liquid Environmental Solutions of TX Dallas Facility	Dallas	5GG	99,755
4	2245	Stericycle Garland Facility	Dallas	5AC	16,732

COG	Permit/Registration	Site Name	County	Type	2010 Tons
4	2256	Southwest Disposal Dallas Facility	Tarrant	5GG	79,388
4	2275	Fort Worth Transfer Station & Materials Recovery Facility*	Tarrant	5TS	0
4	2306	IESI Minnis Drive Transfer Station	Tarrant	5TS	4,864
4	40080	Harrington Environmental Liquid Transfer Station	Johnson	5TL	3,279
4	40104	City of Mingus Transfer Station	Palo Pinto	5TS	476
4	40168	Cleburne Transfer Station	Johnson	5TS	49,169
4	40181	Somervell County Transfer Station	Somervell	5TS	11,371
4	40186	Westside Transfer Station	Tarrant	5TS	165,720
4	40212	Tom Dye Contractor	Palo Pinto	5TL	712
4	40241	Oncore Technology LLC	Tarrant	5MW	27

ARK-TEX COUNCIL OF GOVERNMENTS (COG 5) – No Data Available

EAST TEXAS COUNCILOF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
6	356	Vital Earth Resources	Upshur	5RC	2,355
6	40058	Winnsboro Transfer Station	Wood	5TS	35
6	40172	City of Carthage Transfer Station	Panola	5TS	12,457
6	40174	Pittsburgh Transfer Station	Camp	5TS	19,545

WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS (COG 7) – No Data Available

RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
8	40237	El Paso C&D Recycling Plant	El Paso	5RR	17,212

PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
9	2339	Positive Impact Waste Solutions	Ector	5MW	317

CONCHO VALLEY COUNCIL OF GOVERMNENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
10	2357	San Angelo Pro Pump Dewatering & Compost Facility	Tom Green	5GG	2,249
10	42022	Kickapoo Composting Facility	Tom Green	5RC	1,977

HEART OF TEXAS COUNCIL OF GOVERNMENTS (COG 11) – No Data Available

CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
12	119	Eco Depot	Travis	5TS	7,393
12	466	Georgetown Transfer Station	Williamson	5TS	59,315
12	1787	Hays County Transfer Station	Hays	5TS	1,724
12	2250	Liquid Environmental Solutions of TX Austin Facility	Travis	5GG	39,630
12	2260	Stericycle Austin Autoclave	Bastrop	5AC	18,647
12	40007	IESI Blanco County Transfer Station	Blanco	5TS	22,248
12	40035	BFI Burnet Transfer Station	Burnet	5TS	35,248
12	42016	Texas Organic Recovery	Travis	5RC	61,414

BRAZOS VALLEY COUNCIL OF GOVERMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
13	40018	City of Brenham Transfer Station Facility	Washington	5TS	18,061
13	40173	Washington County Transfer Station	Washington	5TS	29,731
13	40245	Terrabon Demonstration Facility	Brazos	5TS	20

DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
14	40038	Tyler County Transfer Station	Tyler	5TS	3,279
14	40114	City of Crockett Transfer Station	Houston	5TS	27,170
14	40226	Pro Star Waste	Polk	5TS	2,433
14	43007	City of Nacgodoches Grease Treatment Facility	Nacogdoches	5GG	2,227

SOUTH EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
15	40164	JTB Recycling Transfer Station Facility	Jefferson	5TS	414
15	40225	Triangle Waste Solutions	Jefferson	5TS	156,134
15	40231	Biomedical Waste Solutions	Jefferson	5MW	2,077
15	43000	JTB Recycling Facility Inc	Jefferson	5GG	9,414

HOUSTON-GALVESTON AREA COUNCIL

COG	Permit/Registration	Site Name	County	Type	2010 Tons
16	164	Galveston Transfer Station	Galveston	5TS	94,890
16	1074	City of Houston Lawndale Southeast Transfer Station	Harris	5TS	197,233
16	1091	City of Houston Westpark Southwest Transfer Station	Harris	5TS	359,543
16	1092	City of Houston Sommermeyer Northwest Transfer Station	Harris	5TS	252,107
16	1117	Southwaste Disposal Lockwood Facility	Harris	5GG	55,114
16	1355	Ruffino Hills Transfer Station	Harris	5TS	211,182
16	1471	Sam Houston Recycling Center	Harris	5TS	114,631
16	1483	Koenig Street Transfer Station	Harris	5TS	136,404
16	1578	Hardy Road Transfer Station	Harris	5TS	249,535
16	2222	Stericycle Inc	Montgomery	5AC	11,964
16	2232	UTMB Galveston Solid Waste Incineration Facility	Galveston	5WI	316

COG	Permit/Registration	Site Name	County	Type	2010 Tons
16	2234	Liquid Environmental Solutions of TX Houston Facility	Harris	5GG	269,354
16	2235	Brazoria County Recycling Center	Brazoria	5RR	9,035
16	2239	WM Resource Recovery & Recycling Facility	Chambers	5WI	1,290
16	2241	Southwaste Disposal Hurst Facility	Harris	5GG	80,448
16	2318	Don Tol Compost Facility	Wharton	5RC	10,198
16	2326	Med-Shred Houston Processing Facility	Harris	5MW	1,548
16	2350	Big K Environmental	Harris	5GG	90,407
16	40028	Matagorda County Transfer Station	Matagorda	5TS	7,210
16	40053	Best Septic Tank Cleaning	Fort Bend	5TL	2,305
16	40056	City of Huntsville Transfer Station	Walker	5TS	39,251
16	40098	BFI Houston Resource Renewal Complex Transfer Station Facility	Harris	5TS	10,633
16	40189	Egbert Transfer Station	Harris	5TS	82,592
16	40191	Country Waste Inc.	Austin	5TS	7,920
16	40217	Tanner Road Facility	Harris	5TS	66,416
16	43018	A Affordable Vacuum Services and Disposal Site	Harris	5GG	8,450

GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	2010 Tons
17	2181	Jackson County MSW Transfer Station & Recycling Center	Jackson	5TS	1,536
17	2330	Victoria Environmental	Victoria	5GG	19,328
17	40011	City of Hallettsville Transfer Station	Lavaca	5TS	937

ALAMO AREA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
18	1443	City of San Antonio Starcrest Transfer Station	Bexar	5TS	164,523

COG	Permit/Registration	Site Name	County	Type	2010 Tons
18	2248	Liquid Environmental Solutions of TX San Antonio Facility	Bexar	5GG	40,282
18	2317	SouthWaste Disposal LLC San Antonio Facility	Bexar	5RC	44,595
18	42028	City of Kerrville Composting Facility	Kerr	5RC	7,897
18	43011	City of La Coste	Medina	5GG	55,165

SOUTH TEXAS DEVELOPMENT COUNCIL (COG 19) – No Data Available

COASTAL BEND COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
20	2319	Texas Sludge Disposal Composting Facility	San Patricio	5RC	15,083
20	40027	Aransas County Transfer Station	Aransas	5TS	3,010
20	40093	Liquid Environmental Solutions of TX Robstown Facility	Nueces	5TL	1,048
20	40228	JC Elliott Transfer Station	Nueces	5TS	82,879

LOWER RIO GRAND VALLEY DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2010 Tons
21	2334	Med-Shred Harlingen Processing Facility	Cameron	5MW	682
21	2343	Valley De-Watering Services Inc	Hidalgo	5GG	14,296
21	2346	Liquid Environmental Solutions of TX Weslaco Facility	Hidalgo	5GG	16,744
21	40110	City of Harlingen Transfer Station	Cameron	5TS	51,919
21	42015	City of Brownsville Composting Facility	Cameron	5RC	21,453

TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
22	1030	City of Gainesville	Cooke	5TS	23,471
22	1136	City of Sherman Transfer	Grayson	5TS	11,048

CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2010 Tons
23	40004	City of Hico Transfer Station	Hamilton	5TS	82
23	40160	City of San Saba Transfer Station	San Saba	5TS	3155
23	40209	Killeen Transfer Station	Bell	5TS	96,880
23	42017	City of Copperas Cove Composting Facility	Coryell	5RC	1370
23	43010	S & M Vacuum & Waste Ltd	Bell	5GG	3,305

MIDDLE RIO GRANDE DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2010 Tons
24	40034	City of Sabinal	Uvalde	5TS	1,112
24	40057	Rocksprings Transfer Station	Edwards	5TS	754

References

i. Preliminary Annual Estimates of the Resident Population for Counties: April 1, 2000 to July 1, 2010 (CO-PEST2010-TOTALS), release date: March 2011, source: Population Division, U.S. Census Bureau found at <www.census.gov/popest/eval-estimates/eval-est2010.html>

ii. Title 30, Texas Administrative Code, Chapter 330, Section 330.5 (b)

iii. Texas Health and Safety Code, Section 363.0615

iv. US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2009 <www.epa.gov/osw/nonhaz/municipal/pubs/msw2009-fs.pdf>