







# Municipal Solid Waste in Texas: A Year in Review

FY 2013 Data Summary and Analysis

AS-187/14 10/2014

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FY 2013 Data Summary and Analysis

Prepared by Waste Permits Division



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# **General Information**

Municipal Solid Waste in Texas: A Year in Review is prepared by the Municipal Solid Waste (MSW) Permits Section, Waste Permits Division. The summary includes data on the types and amounts of waste disposed and processed at permitted and registered MSW facilities. The report also includes an estimate of the state's remaining disposal capacity.

## **Reporting Period**

Reports from MSW facilities are based on a fiscal year, which runs from September 1 through August 31. All references to 2013 in this annual summary are related to fiscal year 2013 (September 1, 2012, through August 31, 2013).

# **Reporting Requirements**

In accordance with Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter P (relating to Fees and Reporting), MSW facility operators are required to submit an annual report to the Texas Commission on Environmental Quality (TCEQ) covering the types and amounts of waste processed or disposed at a facility.

#### **Data Sources**

The data in this summary are condensed from annual reports submitted by 228 landfills (197 active and 31 inactive) and 238 processing facilities (192 active and 46 inactive). The MSW Permits Section reviewed the data and verified and/or reconciled discrepancies with facility representatives, quarterly report data, and agency records (MSW Records).

Facility reports included:

- 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).

Population data for this summary was obtained from the US Census Bureau's state population estimates<sup>i</sup> found at

<a href="http://www.census.gov/popest/data/counties/totals/2013/CO-EST2013-01.html">http://www.census.gov/popest/data/counties/totals/2013/CO-EST2013-01.html</a>

<sup>&</sup>lt;sup>i</sup> Table 1. Annual Estimates of the Resident Population for Counties of Texas: April 1, 2010 to July 1, 2013; Source: U.S. Census Bureau, Population Division; Release Date: May 2013

# **Facility Information**

#### Landfills

**Type I facilities.** A Type I landfill is the standard landfill for the disposal of MSW. For 2013, 101 of the active landfills (51.3%) were Type I facilities.

**Type IV facilities.** A Type IV landfill only accepts brush, construction and demolition (C&D) waste, and other similar waste that will not putrefy. For 2013, 22 of the active landfills (11.2%) were Type IV facilities. In addition, Type IV landfills managed 9% of the total waste disposed and accounted for 4% of the total statewide remaining capacity. However, these landfills were not distributed evenly across the state; approximately 64% were located in the Houston-Galveston Area Council's region (HGAC-16).

**Arid-exempt (AE) facilities.** Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt landfills. These landfills are limited in the amount of solid waste they may accept and they are exempt from liner and groundwater monitoring requirements. II n 2013, 70 active landfills (36%) had an arid-exempt authorization. Arid-exempt landfills accounted for 1% of the total waste disposed and 1% of the total statewide remaining capacity.

**Monofills.** In 2013, counties or municipalities with 12,000 or fewer people could obtain a permit by rule under 30 TAC §330.7(i) to dispose demolition waste from properties with nuisance or abandoned buildings into disposal facilities that are owned or controlled by the county/municipality. For 2013, 4 of the state's active landfills (2%) were monofills.

## **Landfills Reporting**

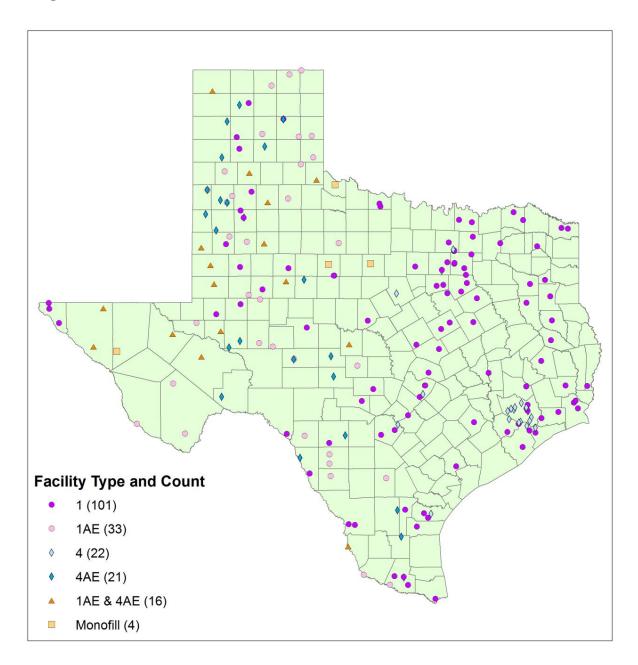
MSW Records indicated that in 2013 there were 237 permitted MSW landfills with a physical activity status of Active, Inactive (previously received waste), or Inactive New (not constructed or have yet to receive waste). Of these, reports were submitted by 228 facilities (197 Active, 18 Inactive, 13 Inactive New). Landfills not reporting were indicated as Inactive according to MSW Records.

Disposal and capacity data were evaluated for all 197 active landfills (Figure 1). Individual facility data for the 2013 active landfills is presented in the "Facility Data for MSW Landfills" section at the end of this report.

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<sup>11</sup> Title 30, Texas Administrative Code, Chapter 330, §330.5(b).

Figure 1. Active Texas MSW Landfills in 2013



## **Processing Facilities**

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

**Type V facilities.** Type V facilities store or process MSW. Processing includes transfer, incineration, shredding, grinding, baling, composting, salvaging, separation, dewatering, or reclamation of MSW. They may be authorized by permit. However, some facilities qualify for authorization by registration if they meet specific requirements identified by statute and rule. A transfer station that includes a material recovery operation, which recovers at least 10% by weight of the incoming waste stream for reuse or recycling, would qualify for a registration.

**Type IX facilities.** A Type IX facility recovers energy, material, or gas for beneficial use, including landfill mining, within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill.

## **Processing Facilities Reporting**

MSW processing facilities are differentiated by sub-types in MSW Records. The breakdown of active facilities that submitted reports for 2013 is summarized in Table 1. For 2013, 192 of the 193 active processing facilities reported.

Facility Type		ecords for Facilities	Reports Received		
	Permitted	Registered	Permitted	Registered	
Autoclave (5AC)	2	2	2	2	
Liquid Waste Processor (5GG)	20	7	20	7	
Medical Waste Processor (5MW)	2	5	2	4	
Composting (5RC)	6	12	6	12	
Recycling & Recovery (5RR)	1	1	1	1	
Liquid Transfer Station (5TL)	0	5	О	5	
Transfer Station (5TS)	31	69	31	69	
Waste Incinerator (5WI)	3	0	3	0	
Gas Recovery (9GR)	2	25	2	25	
Total	67	126	67	125	

Note: In the agency database, facility sub-types are identified using Arabic numbers with abbreviations (e.g., 5GG).

The total reported amount of waste processed by Type V facilities in 2013 was 5.95 million tons. Individual facility data for the 2013 active processing facilities is presented in the "Facility Data for MSW Processing Facilities" section at the end of this report.

For the Type IX landfill gas recovery for beneficial use facilities, 15.6 billion cubic feet of gas were processed with 6.13 billion cubic feet distributed offsite. The amount of power generated and used on-site was 256 million kilowatt hours (kWh). The amount of power generated and sold was 440 million kWh. Individual facility data for the 2013 active Type IX landfill gas recovery for beneficial use facilities is presented in the "Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use" section at the end of this report.

#### Other Information

**Use of scales.** The majority of active MSW landfills (71%) and 54% of the MSW Type V processing facilities reported using scales to measure all or some of their accepted waste or feedstock material in 2013. Facilities without scales (as well as many facilities with scales) also measured accepted waste or feedstock material by volume (i.e., cubic yards).

**Texas municipal solid waste fee.** In 2013, the state changed the MSW fees. 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 94 cents 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 30 cents per cubic yard and the fee for uncompacted solid waste is 19 cents per cubic yard received for disposal at a municipal solid waste landfill. The commission shall set the fee for sludge or similar waste applied to the land for beneficial use on a dry weight basis and for solid waste received at an incinerator or a shredding and composting facility at half the fee set for solid waste received for disposal at a landfill..."

MSW landfill and applicable processing facility operators collect this required fee as part of the tipping fee they charge their customers. This tipping fee is based on weight or volume, depending upon the type of waste and method of delivery to the facility.

For 2013, the statewide tipping fee rates charged by MSW landfills averaged

- \$31.72 per ton, with 137 facilities reporting;
- \$10.49 per cubic yard for compacted cubic yards, with 47 facilities reporting; and
- \$10.97 per cubic yard for uncompacted cubic yards, with 82 facilities reporting.

For 2013, the statewide tipping fee rates charged by MSW Type V processing facilities averaged

- \$47.63 per ton, with 56 facilities reporting;
- \$0.21 per gallon, with 34 facilities reporting;
- \$0.43 per pound, with 10 facilities reporting;
- \$19.30 per cubic yard for compacted cubic yards; with 18 facilities reporting; and
- \$13.63 per cubic yard for uncompacted cubic yards, with 35 facilities reporting.

**Facility ownership.** MSW facilities in Texas are typically owned by government entities such as cities and counties, or by corporations, and other types of privately held companies. In 2013, MSW Records indicated that 128 of the 197 active landfills (64%) were publicly owned, but represented only 34% of the total reported amount of waste disposed. For the active Type V processing facilities that reported, ownership was more evenly distributed, with 82 facilities publicly owned and 83 owned by private companies. For Type IX landfill gas recovery for beneficial use facilities, 23 of the 27 active facilities were privately owned.

## **Waste Information**

## Waste Managed by MSW Facilities

MSW definitions. MSW is defined under 30 TAC, Chapter 330 (Municipal Solid Waste), Subchapter A (General Information) 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 refers to the source, rather than the constituents or properties of the waste. Retailers, repair services, and the general public are municipal generators; manufacturers are industrial solid waste generators.

It is worth noting that the Texas definition of MSW is more encompassing than that of the United States Environmental Protection Agency (USEPA) and several other states. While the USEPA definition does not include C&D waste and municipal sludge, the Texas definition does. Therefore, the per capita MSW disposal and generation rates for Texas may appear to be higher than those of other states.

**Waste classifications.** Texas defines industrial solid wastes as separate and distinct from MSW. Industrial waste may be defined as hazardous or non-hazardous. MSW facilities may not accept regulated hazardous waste. Most MSW facilities may accept Class 2 and Class 3 non-hazardous industrial solid waste. Only facilities with dedicated Class 1 cells, which have more protective design requirements, may accept Class 1 non-hazardous waste. The non-hazardous industrial solid wastes are defined by classes.

- Class 1: industrial non-hazardous waste that, based on its constituents and properties, may pose a substantial danger to human health or the environment if it is not properly managed. There are special handling requirements for Class 1 wastes at MSW landfills. An example of Class 1 waste could be industrial sludge containing metals or organics.
- Class 2: industrial solid waste that cannot be described as hazardous, Class 1 non-hazardous, or Class 3. Activated sludge from industrial biological wastewater treatment plants are typically Class 2 wastes.
- **Class 3:** inert and essentially insoluble industrial solid wastes that do not readily decompose, such as bricks or concrete from an industrial facility.

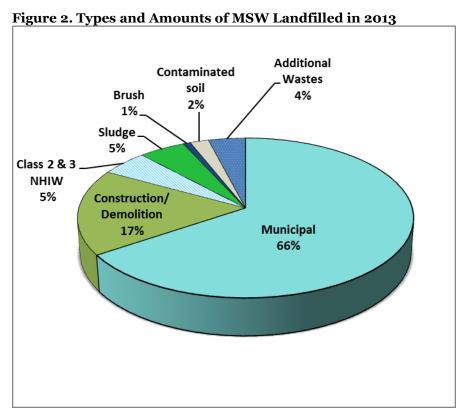
It should be noted that waste classified as hazardous by federal rules cannot become non-hazardous through dilution. The Texas classification of Class 1 non-hazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste.

## **Disposal Information**

**Waste types.** While the majority of MSW disposed in Texas is residential and commercial waste, landfills have difficulty in estimating the amounts received for each waste type. For the purpose of this annual summary, residential and commercial waste are combined and defined as "municipal." In 2013, municipal waste accounted for approximately 66% of the total waste disposed at MSW landfills. At 17%, construction and demolition waste was the second largest waste type disposed. "Additional Wastes" included, but was not limited to: tires, medical waste, litter, grease trap waste, and grit trap waste.

**Waste sources.** In 2013, 87% of MSW disposed in Texas was generated within the state. A total of 3,097 tons was received from Mexico, as reported by five landfills. In addition, a total of 263,879 tons was received from out-of-state, as reported by fourteen landfills. States served included Arkansas, Colorado, Kansas, Louisiana, New Mexico, and Oklahoma. There is no requirement for reporting the amount of MSW that is exported from Texas.

Figure 2 and Table 2 illustrate the types and estimated amounts of waste disposed in Texas MSW landfills for 2013.



Note: Class 1 NHIW waste is included in "Contaminated soil" and "Additional Wastes" categories.

Table 2. Types and Amounts of MSW Landfilled in 2013

Waste Type	Number of Landfills Accepting Waste	Tons Disposed	% of Total Tons Disposed
Municipal	154	20,044,610	65.57
Brush	59	241,102	0.79
Construction/Demolition	149	5,334,017	17.45
Litter	20	34,038	0.11
Class 1 NHIW <sup>1</sup>	15	330,401	1.08
Classes 2 and 3 NHIW <sup>1</sup>	50	1,562,649	5.11
Incinerator ash	6	4,224	0.01
Medical waste	12	27,091	0.09
CESQG <sup>2</sup>	1	24,883	0.08
RACM <sup>3</sup>	36	57,782	0.19
Non-RACM <sup>3</sup>	42	47,882	0.16
Dead animals	76	13,954	0.05
Sludge	86	1,544,261	5.05
Grease trap waste	12	8,410	0.03
Grit trap waste	21	13,249	0.04
Septage	7	60,151	0.20
Contaminated soil	39	614,951	2.01
Tires <sup>4</sup>	28	48,531	0.16
Pesticides	0	0	0.00
Used Oil Filter	2	431	<0.01
Other	40	557,123	1.82
Total		30,569,741	100

<sup>1.</sup> NHIW (Non Hazardous Industrial Waste)

Note: Descriptions for several of the waste types listed in Table 2 are provided at the end of this report.

<sup>2.</sup> CESQG (Municipal Hazardous Waste from Conditionally Exempt Small Quantity Generators.)

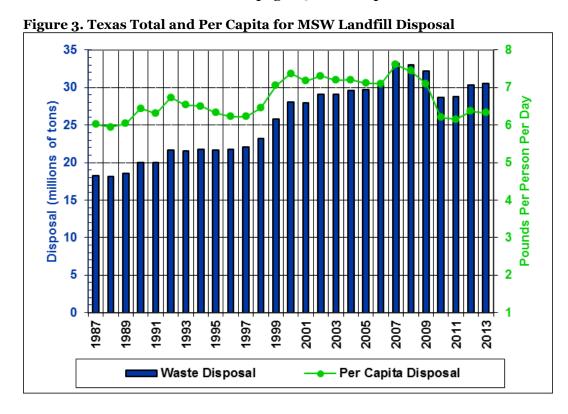
<sup>3.</sup> RACM (Regulated Asbestos-Containing Material.)

<sup>4.</sup> Tires – Only split, quartered, or shredded tires may be disposed in a landfill.

# **Capacity Information**

**Per capita rate.** In 2013, total disposal of MSW in the state was approximately 30.57 million tons. Using the state population estimate<sup>i</sup> of 26,448,193, the per capita landfill disposal rate in Texas was 6.33 pounds per person per day, which is slightly lower than the 2012 rate of 6.37 pounds. During this period, the state's population increased 1.5%.

Figure 3 displays a graphic representation of disposal amounts and per capita rates over time. For more detailed information, please see the "Historical Data for MSW Landfills in Texas" table on page 23 of the report.



<sup>&</sup>lt;sup>i</sup>Table 1. Annual Estimates of the Resident Population for Counties of Texas: April 1, 2010 to July 1, 2013; Source: U.S. Census Bureau, Population Division; Release Date: May 2013; <a href="http://www.census.gov/popest/data/counties/totals/2013/CO-EST2013-01.html">http://www.census.gov/popest/data/counties/totals/2013/CO-EST2013-01.html</a>

**Landfill capacity.** The total remaining MSW landfill capacity in the state at the end of 2013 was 2.79 billion cubic yards. Based on reported compaction rates, this volume would hold 1.88 billion tons of waste and serve for 62 years.

Table 3 summarizes the remaining capacity for all active MSW landfills by facility type. The analyses in this summary are based on the assumptions that no new landfill expansions or new permits will be issued and that the 2013 population and disposal amounts will remain constant.

		· ·		
Facility Type	Number of Landfills	Disposal (Tons)	Remaining Capacity (Tons)	Remaining Capacity (Years)*
I	101	27,538,008	1,781,136,892	65
IV	22	2,693,328	80,810,354	30
IAE	33	173,257	9,772,951	56
IVAE	21	38,644	2,257,551	58
IAE and IVAE	16	118,144	6,621,163	56
Monofill	4	8,360	191,286	NA
All types	197	30,569,741	1,880,790,197	62

Table 3. Disposal Amounts and Remaining Capacity by Facility Type

**Growth and attrition.** According to submitted data, statewide capacity increased in 2013. The resulting net capacity increased by approximately 140.84 million tons (roughly 154 million cubic yards) or 8.09% from the statewide 2012 capacity.

**Statewide distribution.** In Texas, there are 24 Regional Planning Commissions, also known as Councils of Governments (COGs), responsible for MSW management planning on a regional basis (Figure 4).<sup>ii</sup> Although remaining capacity was not evenly distributed, the state appeared to have an adequate reserve of landfill capacity in 2013 (Table 4).

The Central Texas COG (CTCOG -23) indicated the least amount of remaining capacity with 18 years. The South Texas Development Council region (STDC-19) capacity increased from 11 years in 2012 to 127 years in 2013 with the opening of the Ponderosa Regional Landfill (Permit No. 2286). Landfill capacity also increased from 24 years to 104 years in the Lower Rio Grande Valley Development Council (LRGVDC-21) region with the opening of the La Gloria Ranch Landfill (Permit 2348).

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<sup>\*</sup> Average, assuming the 2013 disposal rate of 30.57 million tons per year. NA – Not applicable. These facilities are authorized through a renewable five-year permit by rule.

ii Texas Health and Safety Code, Section 363.0615.

Figure 4. Texas Councils of Governments

No.	Abbrev.	COG Name	No.	Abbrev.	COG Name
1	PRPC	Panhandle Regional Planning Commission	13	<b>BVCOG</b>	Brazos Valle
2	SPAG	South Plains Association of Government	14	DETCOG	Deep East 7
3	NRPC	Nortex Regional Planning Commission	15	SETRPC	South East
4	NCTCOG	North Central Texas Council of Governments	16	HGAC	Houston-Ga
5	ATCOG	Ark-Tex Council of Governments	17	GCRPC	Golden Cres
6	ETCOG	East Texas Council of Governments	18	AACOG	Alamo Area
7	WCTCOG	West Central Texas Council of Governments	19	STDC	South Texa
8	RGCOG	Rio Grande Council of Governments	20	CBCOG	Coastal Ber
9	PBRPC	Permian Basin Regional Planning Commission	21	LRGVDC	Lower Rio C
10	CVCOG	Concho Valley Council of Governments	22	TCOG	Texoma Co
11	HOTCOG	Heart of Texas Council of Governments	23	CTCOG	Central Tex
12	CAPCOG	Capital Area Council of Governments	24	MRGDC	Middle Rio (

No.	Abbrev.	COG Name
13	<b>BVCOG</b>	Brazos Valley Council of Governments
14	DETCOG	Deep East Texas Council of Governments
15	SETRPC	South East Texas Regional Planning Commission
16	HGAC	Houston-Galveston Area Council
17	GCRPC	Golden Crescent Regional Planning Commission
18	AACOG	Alamo Area Council of Governments
19	STDC	South Texas Development Council
20	CBCOG	Coastal Bend Council of Governments
21	LRGVDC	Lower Rio Grande Valley Development Council
22	TCOG	Texoma Council of Governments
23	CTCOG	Central Texas Council of Governments
24	MRGDC	Middle Rio Grande Development Council

Table 4. Analysis of MSW Landfill Disposal by Texas COGs for 2013

		e MSW dfills	2013 Dispo		Pisposal		Remaining Capacity		
COG	Count	% of Total	Tons	% of Total	Population	Per Cap*	Tons	% of Total	Years **
1 PRPC	21	10.66	559,836	1.83	435,462	7.04	46,418,292	2.47	83
2 SPAG	19	9.64	493,873	1.62	421,483	6.42	72,032,190	3.83	146
3 NRPC	3	1.52	276,728	0.91	221,492	6.85	55,742,882	2.96	201
4 NCTCOG	21	10.66	8,485,013	27.76	6,926,498	6.71	371,551,694	19.76	44
5 ARK-TEX	5	2.54	374,934	1.23	282,592	7.27	68,057,230	3.62	182
6 ETCOG	4	2.03	577,967	1.89	839,357	3.77	117,792,440	6.26	204
7 WCTCOG	9	4.57	428,078	1.40	327,670	7.16	95,420,393	5.07	223
8 RGCOG	9	4.57	436,449	1.43	852,053	2.81	22,321,456	1.19	51
9 PBRPC	15	7.61	636,804	2.08	451,378	7.73	45,290,608	2.41	71
10 CVCOG	9	4.57	211,567	0.69	158,745	7.30	4,332,180	0.23	20
11 HOTCOG	4	2.03	596,756	1.95	354,624	9.22	63,526,157	3.38	106
12 CAPCOG	5	2.54	2,018,747	6.60	1,943,266	5.69	72,038,813	3.83	36
13 BVCOG	1	0.51	283,557	0.93	328,348	4.73	26,916,127	1.43	95
14 DETCOG	4	2.03	517,741	1.69	378,896	7.49	41,906,111	2.23	81
15 SETRPC	4	2.03	615,259	2.01	390,732	8.63	32,140,663	1.71	52
16 HGAC	26	13.20	8,301,839	27.16	6,480,535	7.02	310,837,535	16.53	37
17 GCRPC	1	0.51	146,754	0.48	194,286	4.14	4,117,785	0.22	28
18 AACOG	6	3.05	2,772,824	9.07	2,441,230	6.22	146,865,786	7.81	53
19 STDC	4	2.03	373,335	1.22	344,093	5.95	47,550,295	2.53	127
20 CBCOG	8	4.06	668,178	2.19	588,405	6.22	91,270,914	4.85	137
21 LRGVDC	6	3.05	1,069,067	3.50	1,255,193	4.67	111,563,434	5.93	104
22 TCOG	2	1.02	167,944	0.55	194,479	4.73	17,131,338	0.91	102
23 CTCOG	2	1.02	409,548	1.34	466,653	4.81	7,522,601	0.40	18
24 MRGDC	9	4.57	146,943	0.48	170,723	4.72	8,443,273	0.45	57
Totals	197	100	30,569,741	100	26,448,193	6.33	1,880,790,197	100	62

<sup>\*</sup>Pounds per person per day
\*\*Average, at 2013 statewide disposal rate

## **Trends**

**Landfill closures.** In 1987, there were 763 authorized MSW landfills accepting waste. The reduction in the number of active landfills between the late 1980's and mid 1990's was primarily due to the stringent requirements of the Federal Resource Conservation and Recovery Act (RCRA) Subtitle D. However, since the late 1990s, this decreasing trend has stabilized, suggesting a continued move away from smaller community landfills and toward larger regional landfills.

**Capacity reserve.** From 1986 to the mid-1990s, the state's reserve capacity for MSW disposal was less than 22 years. The current reserve capacity for disposal is approximately 62 years (Figure 5). The increasing reserve capacity trend is attributed to an expansion in the available volume of permitted disposal capacity and to improvements in compaction and diversion. In 1986, the average compaction rate was approximately 650 pounds of waste per cubic yard, and the 2000 average was approximately 1,000 pounds per cubic yard. The 2013 average compaction rate was calculated as 1,114 pounds per cubic yard.

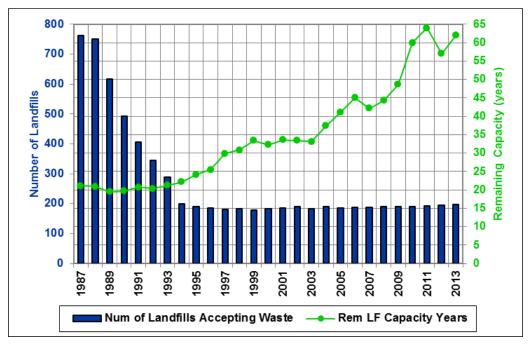


Figure 5. Number of MSW Landfills and Remaining Capacity

**Landfill size.** In addition to improvements in the operation of MSW landfills, size and service areas for landfills have continued to grow. In 1986, the statewide average landfill size was 50 acres with an average depth of 6.5 feet and an average height of 13 feet. In 2013, the statewide average landfill size was 240 acres with an average depth of 36 feet, and an average height of 83 feet.

Table 5 provides the breakdown of the permitted heights for MSW landfills in 2013. Two landfills had a permitted height over 300 feet; Abilene Regional Landfill (Permit No. 1469A; WCTCOG-7) and Greenwood Farms (Permit No. 1972A; ETCOG-6).

Table 5. Permitted Heights for MSW Landfills in 2013

Permitted Height	Number of Landfills	% of Landfills
<100 ft	122*	63
100 ft – 200 ft	52	27
200 ft – 300 ft	17	9
>300 ft	2	1

<sup>\*</sup> Permitted heights for monofills are not included in the report.

**Counties served.** The 197 active MSW landfills in the state reported the number of counties they served in 2013 (Table 6). Service to more than one county was provided by 129 landfills (66%). Table 7 shows the number of active landfills in each Texas County. Counties with a change in number of landfills from 2012 have been indicated.

Table 6. Number of Texas Counties Served by MSW Landfills in 2013

Number of Counties Served	Number of Landfills
1	68
2 – 5	65
6 – 10	44
11 – 15	9
16 – 20	7
>20	4

Table 7. Number of Active MSW Landfills by County in 2013

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	Havs	0	Martin	1	Schleicher	2
Aransas	0	Culberson	1*+	Hemphill	0	Mason	1	Scurry	1
Archer	0	Dallam	1	Henderson	0	Matagorda	0	Shackelford	0
Armstrong	1	Dallas	4	Hidalgo	5*	Maverick	2	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	1
Bastrop	0	DeWitt	0	Houston	0	Menard	1	Stephens	1*+
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		Jeff Davis	0	Motley	1	Throckmorton	0
Brazos	0	Erath	3	Jefferson		Nacogdoches		Titus	
Brewster		Falls	1		3	Navarro	1	Tom Green	1
Briscoe	2		0	Jim Hogg Jim Wells	0		1	Travis	1
	0	Fannin	0		1	Newton Nolan	1		4
Brooks	1	Fayette	0	Johnson	2		1	Trinity	0
Brown	1	Fisher	0	Jones	3*+	Nueces	3	Tyler	0
Burleson	0	Floyd	1	Karnes	0	Ochiltree	1	Upshur	0
Burnet	0	Foard	0	Kaufman	0	Oldham	1	Upton Uvalde	2
Caldwell	0	Fort Bend	3	Kendall	0	Orange	0		2
Calhoun Callahan	0	Franklin Freestone	0	Kenedy Kent	0	Palo Pinto Panola	0	Val Verde Van Zandt	1
	0		0		0		0		0
Cameron	1	Frio	0	Kerr Kimble	1	Parker	1	Victoria Walker	1
Camp	0	Gaines	1		1	Parmer	0	Waller	0
Carson	1	Galveston	3	King	0	Pecos	1		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	2*
Cherokee	1	Goliad	0	La Salle	0	Rains	0	Wharton	0
Childress	1	Gonzales	0	Lamar	2	Randall	1	Wheeler	1
Clay	0	Gray	3	Lamb	4	Reagan	1	Wichita	2
Cochran	1	Grayson		Lampasas	0	Real	0	Wilbarger	0
Coke	0**	Gregg	1	Lavaca	0	Red River	0	Willacy	0
Coleman	0**	Grimes	1	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	1+	Llano	0	Rusk	1	Young	0
					_	Sabine	0	1 //omoto	1
Cooke	0	Hardin	1	Loving	0		U	Zapata	1
	0	Hardin	14	Lubbock	3	San Augustine	0	Zavala	2

<sup>\*</sup>Increase in number of active landfills \*\*Decrease in number of active landfills

<sup>+</sup>Indicates existing Monofill

# **MSW Recycling**

**Recycling.** Public and private programs supporting the state's goals for reducing, reusing, and recycling assist in preserving disposal capacity in landfills. Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, and numerous other materials are recycled every day. Information on TCEQ's promotion of recycling programs can be found on the agency's website at <a href="http://www.tceq.texas.gov/p2/recycle/recycling.html">http://www.tceq.texas.gov/p2/recycle/recycling.html</a>.

Currently, the effect of recycling in Texas is difficult to measure. An accurate statewide recycling rate cannot be obtained because there is no requirement for reporting quantities of materials diverted from the solid waste stream before reaching the gate at MSW landfills or processing facilities. City curbside recycling programs are an example of when materials are diverted prior to reaching a disposal or processing facility.

**Television recycling.** In 2011, the state established the Texas Recycles TVs Program. Beginning January 31, 2014, television (TV) recyclers were required to report the total weight or volume of TVs received, recycled, and disposed of in the preceding calendar year (CY) on an annual basis. In CY 2013 (January 1, 2013 – December 31, 2013), Texas TV recyclers received approximately 22 million pounds, recycled 21 million pounds, and disposed of 4300 pounds of covered television equipment. The definition of a "TV recycler" and of "Covered television equipment" is provided in the "MSW Waste and Material Type Descriptions" section at the end of this report.

**Composting.** In Texas, composting is a method used for recycling organic materials. Permitted and registered MSW facilities are allowed to accept bulking agents and feedstock materials such as municipal sewage sludge, positively-sorted and source separated organic materials, disposable diapers, source-separated yard trimmings, clean wood material, vegetative material, paper, manure, meat, fish, dairy, oil, grease materials, or dead animal carcasses. In addition, permitted facilities are authorized to accept mixed municipal solid waste and grease trap waste. In 2013, a total of 430,285 tons of organic material was composted as reported by 8 landfills and 17 composting facilities.

**Diversion.** Permitted and registered MSW facilities report the amount of waste that enters a facility's gate, but is then diverted from the solid waste stream as recyclable materials. In 2013, over 1.2 million tons of materials were reported as diverted from MSW facilities for recycling or reuse: a total of 919,020 tons, as reported by 111 landfills; and a total of 372,218 tons, as reported by 83 processing facilities, with transfer stations representing the majority.

Table 8 presents the various material streams and estimated amounts reported as diverted by MSW facilities in 2013. It is noted that data in the table represents only the amount of recyclable material leaving a disposal or processing facility and may or may not include the numbers reported by recycling facilities, such as composting and TV recycling facilities.

Table 8. Types and Amounts of Diverted Materials

Material Type	Tons Diverted	% of Total Tons Diverted
Yard Waste or Brush	396,780	30.73
Metal	53,739	4.16
Glass	20,332	1.57
Plastics	10,176	0.79
Construction/Demolition Waste	312,881	24.23
Paper/Cardboard	128,136	9.92
Electronic Materials	961	0.07
White Goods	1,122	0.09
Tires	9,900	0.77
Automotive	3,396	0.26
Shingles	6,326	0.49
Used Oil	827	0.06
Unclassified Materials	346,663	26.85
Total	1,291,239	100

Note: Descriptions for several of the material types listed in Table 8 are provided at the end of this report.

# **Historical Data for MSW Landfills in Texas**

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal*	Number of Active Landfills	Remaining Capacity (Cubic Yards)	Remaining Capacity (Tons)	Remaining Capacity (Years)
1988	18,114,295	16,668,639	5.95	750	1,162,374,628	377,771,754	21
1989	18,531,001	16,806,521	6.04	616	1,111,902,033	361,368,161	20
1990	19,969,615	16,986,510	6.44	493	1,124,524,795	393,583,678	20
1991	19,973,622	17,349,000	6.31	405	1,183,699,041	414,294,664	21
1992	21,675,661	17,655,650	6.73	345	1,193,233,770	440,730,048	20
1993	21,517,063	18,031,484	6.54	289	1,205,635,627	456,161,796	21
1994	21,808,274	18,378,185	6.50	199	1,269,565,453	483,752,986	22
1995	21,639,678	18,723,991	6.33	191	1,071,520,039	523,633,365	24
1996	21,738,137	19,128,261	6.23	186	1,023,799,597	554,095,949	26
1997	22,094,777	19,439,337	6.23	181	1,169,628,669	659,694,441	30
1998	23,259,425	19,759,614	6.45	184	1,300,609,247	716,302,147	31
1999	25,791,066	20,044,141	7.05	179	1,557,349,331	862,778,821	33
2000	28,034,517	20,851,820	7.37	183	1,633,321,824	904,891,939	32
2001	27,938,751	21,235,018	7.18	186	1,710,713,869	939,383,633	34
2002	29,061,966	21,779,893	7.31	190	1,691,970,227	971,314,962	33
2003	29,073,315	22,118,509	7.20	184	1,506,807,849	963,972,887	33
2004	29,581,785	22,490,022	7.21	189	1,826,587,075	1,134,462,509	37
2005	29,671,151	22,859,968	7.11	186	1,870,868,394	1,217,845,562	41
2006	30,453,702	23,507,783	7.10	187	2,110,807,960	1,366,311,822	45
2007	33,183,488	23,904,380	7.61	188	2,158,501,232	1,403,592,411	42
2008	33,078,196	24,326,974	7.45	191	2,167,272,920	1,439,621,096	44
2009	32,264,262	24,782,302	7.13	190	2,351,154,567	1,567,806,257	49
2010	28,637,988	25,213,445	6.22	190	2,483,194,375	1,722,333,910	60
2011	28,817,066	25,674,681	6.15	193	2,636,321,089	1,830,882,782	64
2012	30,309,069	26,059,203	6.37	195	2,632,196,651	1,739,952,891	57
2013	30,569,741	26,448,193	6.33	197	2,786,237,795	1,880,790,197	62

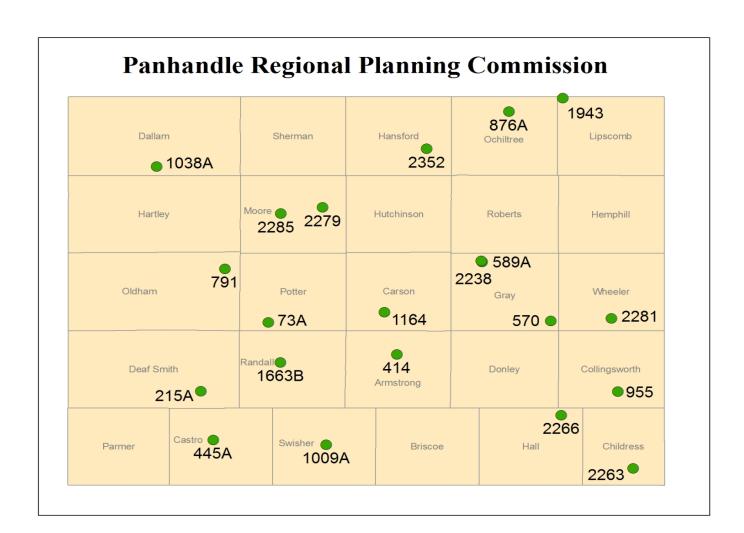
<sup>\*</sup>Using the Texas definition of MSW described on page 3 of this report

# **Facility Data for MSW Landfills**

The maps and tables included in this section represent the active MSW landfill data reported for 2013. The maps and tables are organized by COG region and county. All values were rounded to the nearest whole number.

#### **Key for Landfill Data Tables**

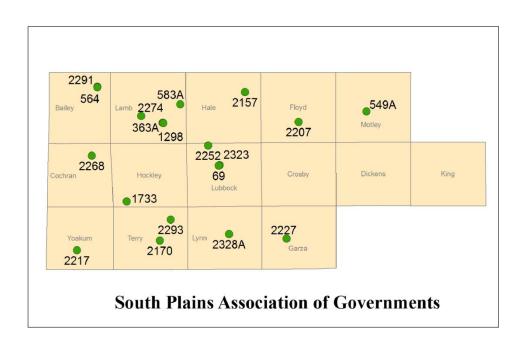
Column Heading	Description
Туре	Facility types are identified by Arabic numbers with applicable abbreviations (e.g., 1AE) in the agency database
2013 Tons	Total Tons Landfilled in Fiscal Year 2013
Rem Yds	Remaining Landfill Capacity in Cubic Yards
Rate	Reported Compaction Rate at the Landfill in Pounds per Cubic Yards
Rem Tons	Remaining Landfill Capacity in Equivalent Tons (based on reported landfill compaction rate)
Rem Yrs	Remaining Landfill Capacity in Years (facility's reported data, which is either an estimate where appropriate or on permit volumes and compacted waste acceptance rates)
NA	Not applicable



#### PANHANDLE REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
1	414	Claude Armstrong County Landfill	Armstrong	4AE	2,148	240,605	500	60,151	28
1	1164	City Of Panhandle Landfill	Carson	1AE	2,601	728,036	750	273,014	105
1	445A	City Of Dimmitt Landfill	Castro	1AE	5,185	1,197,927	750	449,223	87
1	2263	City Of Childress Landfill	Childress	1AE&4AE	3,958	2,411,041	800	964,416	122
1	955	City Of Wellington Landfill	Collingsworth	1AE	5,128	504,802	800	201,921	39
1	1038A	City Of Dalhart Landfill	Dallam	1AE&4AE	9,391	1,321,314	785	518,616	33
1	215A	City Of Hereford Landfill	Deaf Smith	4AE	5,221	300,267	850	127,613	25
1	570	City Of Mclean Landfill	Gray	1AE	835	550,474	800	220,190	13
1	589A	City Of Pampa Landfill	Gray	4AE	2,265	457,298	1000	228,649	101
1	2238	City Of Pampa Landfill	Gray	1	51,360	8,831,126	1320	5,828,543	113
1	2266	City Of Memphis Landfill	Hall	1AE	5,518	989,917	800	395,967	72
1	2352	City Of Spearman Landfill	Hansford	1AE	3,993	1,054,900	1500	791,175	100
1	1943	City Of Booker Landfill	Lipscomb	1AE	1,723	453,338	850	192,669	9
1	2279	City Of Dumas Landfill	Moore	1	13,388	8,244,848	1000	4,122,424	117
1	2285	City Of Dumas Landfill	Moore	4AE	3,750	265,116	800	106,046	4
1	876A	Perryton Landfill	Ochiltree	1AE	6,055	1,375,773	890	612,219	94
1	791	Cal Farleys Boys Ranch Landfill	Oldham	4AE	500	134,400	400	26,880	48
1	73A	City Of Amarillo Landfill	Potter	1	248,690	70,643,212	800	28,257,285	100
1	1663B	Southwest Landfill TX	Randall	1	177,250	3,487,010	1481	2,582,131	15
1	1009A	City Of Tulia Landfill	Swisher	1AE&4AE	4,839	788,246	850	335,005	68
1	2281	City Of Shamrock Landfill	Wheeler	1AE	6,038	310,388	800	124,155	21

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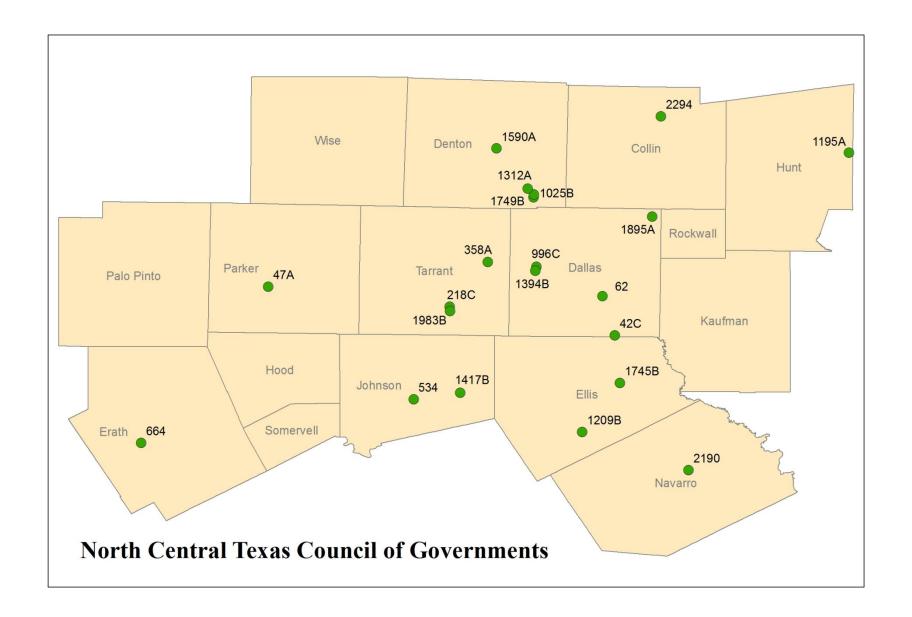


#### SOUTH PLAINS ASSOCIATION OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
2	564	City Of Muleshoe Landfill	Bailey	4AE	1,819	171,555	800	68,622	37
2	2291	City Of Muleshoe Landfill	Bailey	1AE	7,192	484,836	800	193,934	27
2	2268	Morton Landfill	Cochran	4AE	215	805,853	400	161,171	117
2	2207	City Of Floydada Landfill	Floyd	1AE&4AE	7,786	870,943	830	361,441	70
2	2227	City Of Post Landfill	Garza	1AE&4AE	4,560	188,811	650	61,364	13
2	2157	City Of Plainview Landfill	Hale	1	22,435	10,137,839	568	2,879,146	110
2	1733	City Of Sundown Landfill	Hockley	4AE	299	228,287	850	97,022	150
2	363A	City Of Amherst Landfill	Lamb	4AE	18	51,148	400	10,230	62
2	583A	City Of Olton Landfill	Lamb	1AE	9,667	890,029	666	296,380	30
2	1298	City Of Littlefield Landfill	Lamb	4AE	4,881	304,598	1400	213,219	30
2	2274	Littlefield Municipal Landfill	Lamb	1AE	7,299	1,299,788	1400	909,852	100
2	69	City Of Lubbock Landfill	Lubbock	1	28,839	684,438	701	239,896	9
2	2252	City Of Lubbock West Texas Regional Disposal Facility	Lubbock	1	283,731	107,317,084	1154	61,921,957	230
2	2323	C & D Waste	Lubbock	4	65,032	3,403,443	666	1,133,347	17
2	2328A	City Of Tahoka	Lynn	1AE	12,504	928,961	850	394,808	54
2	549A	City Of Matador Landfill	Motley	1AE	2,957	497,226	800	198,890	72
2	2170	City Of Brownfield Landfill	Terry	1	11,972	4,439,683	807	1,791,412	136
2	2293	City Of Meadow Landfill	Terry	1AE	13,072	776,643	800	310,657	25
2	2217	Yoakum County Landfill	Yoakum	1AE&4AE	9,595	1,972,104	800	788,842	82

#### NORTEX REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	<b>2013</b> Tons	RemYds	Rate	RemTons	RemYrs
3	9003	City Of Quanah Landfill	Hardeman	Monofill	560	7,385	NA	2,289	NA
3	1428A	City Of Wichita Falls Landfill	Wichita	1	124,250	72,022,833	1040	37,451,873	300
3	1571A	IESI Buffalo Creek Landfill	Wichita	1	151,918	29,497,935	1240	18,288,720	120



# NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
4	2294	121 Regional Disposal Facility	Collin	1	782,791	123,582,500	1426	88,114,323	112
4	62	City Of Dallas McCommas Bluff Landfill	Dallas	1	1,461,947	94,769,073	1400	66,338,351	45
4	996C	City Of Grand Prairie Landfill	Dallas	1	162,366	12,620,777	909	5,736,143	43
4	1394B	Hunter Ferrell Landfill	Dallas	1	146,573	14,049,928	1574	11,078,627	67
4	1895A	Charles M Hinton Jr Regional Landfill	Dallas	1	342,020	34,801,352	1200	20,880,811	49
4	1025B	DFW Recycling And Disposal Facility	Denton	1	1,289,430	13,484,050	1760	11,865,964	11
4	1312A	Camelot Landfill	Denton	1	298,876	6,748,680	1785	6,023,197	20
4	1590A	City Of Denton Landfill	Denton	1	176,509	11,244,878	1009	5,673,041	32
4	1749B	Lewisville Landfill	Denton	4	174,688	22,072,848	2230	24,611,226	141
4	42C	Waste Management Skyline Landfill	Ellis	1	1,120,400	30,974,333	1440	22,301,520	20
4	1209B	CSC Disposal And Landfill	Ellis	1	27,566	31,044,259	1163	18,052,237	655
4	1745B	Ellis County Landfill	Ellis	1	57,155	39,855,933	1496	29,812,238	522
4	664	City Of Stephenville Landfill	Erath	4	6,956	948,134	850	402,957	81
4	1195A	Republic Maloy Landfill	Hunt	1	97,829	6,116,927	1234	3,774,144	39
4	534	City Of Cleburne Landfill	Johnson	1	1,446	22,995	1000	11,498	8
4	1417B	IESI Turkey Creek Landfill	Johnson	1	425,474	9,823,550	1460	7,171,192	17
4	2190	City Of Corsicana Landfill	Navarro	1	97,617	23,923,666	1000	11,961,833	114
4	47A	IESI Weatherford Landfill	Parker	1	173,240	2,625,016	1400	1,837,511	11
4	218C	City Of Fort Worth South East Landfill	Tarrant	1	501,336	26,630,094	1747	23,261,387	46
4	358B	City Of Arlington Landfill	Tarrant	1	781,355	11,000,913	1670	9,185,762	12
4	1983B	IESI Fort Worth C And D Landfill	Tarrant	4	359,439	4,432,990	1560	3,457,732	10

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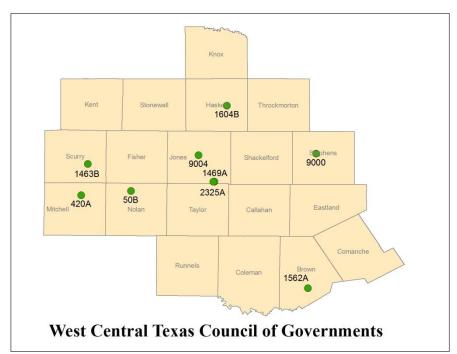


# ARK-TEX COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
5	576B	New Boston Landfill	Bowie	1	121,826	1,210,693	1120	677,988	4
5	1898	Lone Star Ammunition Plant Landfill	Bowie	1	3	2,034,751	850	864,769	39,314
5	1454B	Paris Landfill	Lamar	1	49,275	16,873,618	1240	10,461,643	244
5	2358	Blossom Prairie Landfill	Lamar	1	126,049	77,034,249	1000	38,517,125	306
5	797B	Pleasant Oaks Landfill	Titus	1	77,781	19,960,962	1757	17,535,705	225

# EAST TEXAS COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
6	1614A	Royal Oaks Landfill	Cherokee	1	67,644	2,612,155	2149	2,806,761	42
6	1327B	Pinehill Landfill	Gregg	1	185,774	16,150,115	1853	14,963,082	81
6	1249B	IESI TX Landfill	Rusk	1	123,359	10,184,939	1400	7,129,457	58
6	1972A	Greenwood Farms Landfill	Smith	1	201,190	106,163,589	1750	92,893,140	462





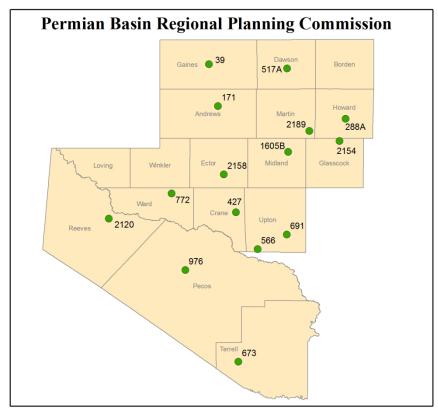
# WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS

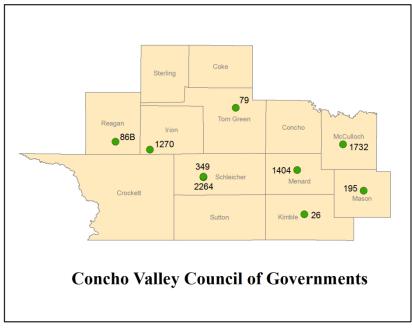
COG	Permit	Site Name	County	Type	<b>2013 Tons</b>	RemYds	Rate	RemTons	RemYrs
7	1562A	Brownwood Regional Landfill	Brown	1	68,749	18,147,964	1100	9,981,380	109
7	1604B	City Of Haskell Landfill	Haskell	1AE	8,218	825,194	700	288,818	11
7	1469A	Abilene Landfill	Jones	1	164,299	89,657,200	1426	63,925,584	389
7	2325	Abilene Environmental Landfill	Jones	1	138,914	19,430,011	1600	15,544,009	65
7	9004	City Of Anson Abandoned And Nuisance Building Disposal Site	Jones	Monofill	1,280	378,785	NA	117,423	NA
7	420A	Colorado City Municipal Landfill	Mitchell	1AE&4AE	1,340	266,267	700	93,193	15
7	50B	City Of Sweetwater Type Iv Ae Landfill	Nolan	4AE	3,207	217,096	400	43,419	5
7	1463B	City Of Snyder Landfill	Scurry	1	41,951	10,709,985	1000	5,354,993	127
7	9000	City Of Breckenridge Monofill	Stephens	Monofill	120	230,881	NA	71,573	NA

# RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
8	1276	Panther Junction Landfill	Brewster	1AE	428	100,581	750	37,718	11
8	2197	City Of Alpine Landfill	Brewster	1AE	12,503	3,318,456	329	545,886	42
8	9006	Town Of Van Horn	Culberson	Monofill	6,400	0	NA	0	NA
8	729B	City Of El Paso Landfill	El Paso	1	6	16,384,415	1100	9,011,428	12
8	1422	Fort Bliss Landfill	El Paso	1	3,330	71,622	1191	42,651	13
8	2284	Greater El Paso Landfill	El Paso	1	401,403	20,379,297	1168	11,901,509	23
8	495	Hudspeth County Dell City Landfill	Hudspeth	1AE&4AE	1,410	202,628	850	86,117	20
8	957A	Hudspeth County Sierra Blanca	Hudspeth	1AE&4AE	5,366	1,303,251	850	553,882	65
8	1737A	City Of Presidio Landfill	Presidio	1AE	5,603	711,325	400	142,265	34

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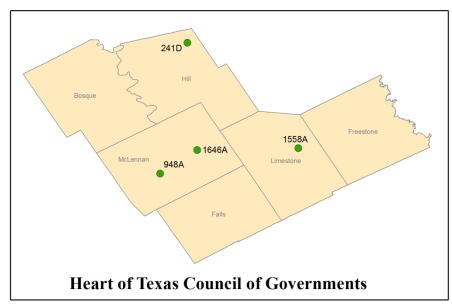


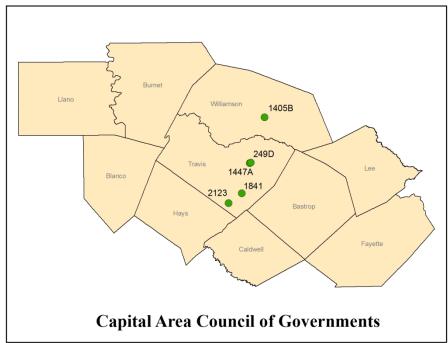
# PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
9	171	City Of Andrews Landfill	Andrews	1AE&4AE	14,036	1,012,483	850	430,305	39
9	427	City Of Crane	Crane	1AE&4AE	3,996	368,902	700	129,116	32
9	517A	City Of Lamesa Landfill	Dawson	1	19,876	1,521,544	1124	855,108	48
9	2158	Odessa Landfill	Ector	1	277,546	33,278,059	1273	21,181,485	76
9	39	City Of Seminole Landfill	Gaines	1AE&4AE	13,538	1,703,856	700	596,350	50
9	2154	Glasscock County Landfill	Glasscock	1AE	657	67,477	250	8,435	13
9	288A	City Of Big Spring Landfill	Howard	1	40,518	599,113	1080	323,521	8
9	2189	City Of Stanton Landfill	Martin	1AE	4,217	564,929	1000	282,464	34
9	1605B	City Of Midland Landfill	Midland	1	221,777	33,862,021	1189	20,130,971	52
9	976	City Of Fort Stockton Landfill	Pecos	1AE&4AE	13,403	286,055	800	114,422	9
9	2120	City Of Pecos Landfill	Reeves	1AE&4AE	13,846	847,581	850	360,222	26
9	673	Terrell County Landfill	Terrell	4AE	469	24,897	300	3,735	40
9	566	City Of McCamey Landfill	Upton	4AE	2,309	1,240,123	750	465,046	7
9	691	Upton County Rankin Landfill	Upton	4AE	659	90,763	400	18,153	28
9	772	City Of Monahans Landfill	Ward	1AE	9,957	1,043,401	750	391,275	30

# CONCHO VALLEY COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
10	1270	Barnhart Landfill	Irion	1AE	1,516	49,503	350	8,663	4
10	26	City Of Junction Landfill	Kimble	4AE	2,700	231,358	1000	115,679	2
10	195	City Of Mason Landfill	Mason	1AE	2,202	84,280	1000	42,140	12
10	1732	City Of Brady Landfill	McCulloch	1AE&4AE	8,808	2,387,556	900	1,074,400	61
10	1404	City Of Menard Landfill	Menard	4AE	40	12,229	850	5,197	48
10	86B	City Of Big Lake Landfill	Reagan	1AE	4,567	52,667	500	13,167	86
10	349	City Of Eldorado Landfill	Schleicher	4AE	441	27	1500	20	1
10	2264	City Of Eldorado Landfill	Schleicher	1AE	7,867	1,368,271	1500	1,026,203	130
10	79	San Angelo Landfill	Tom Green	1	183,426	4,955,717	826	2,046,711	11





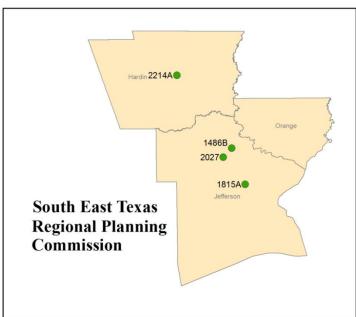
#### HEART OF TEXAS COUNCIL OF GOVERNMENTS

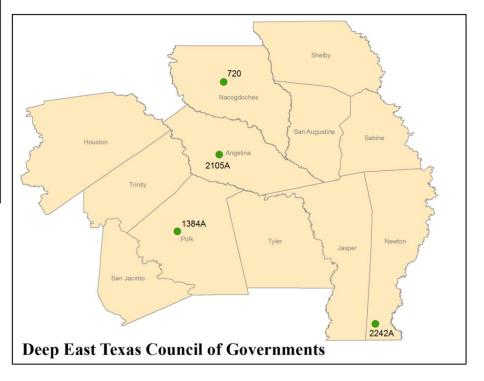
COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
11	241D	Itasca Landfill	Hill	1	228,383	49,296,400	2193	54,053,503	237
11	1558A	BFI Mexia Landfill	Limestone	1	28,874	7,855,509	1371	5,384,951	186
11	948A	City Of Waco Landfill	McLennan	1	248,005	6,091,638	1042	3,173,743	13
11	1646A	Lacy-Lakeview Recycling And Disposal Facility	McLennan	1	91,494	1,354,015	1350	913,960	7

#### CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
12	249D	Waste Management Of Texas Austin Community Recycling & Disposal Facility	Travis	1	271,165	13,544,877	1160	7,856,029	18
12	1447A	BFI Sunset Farms Landfill	Travis	1	634,500	7,528,831	1476	5,556,277	2
12	1841	IESI Travis County Landfill	Travis	4	150,636	2,315,866	1450	1,679,003	11
12	2123	Texas Disposal Systems Landfill	Travis	1	682,383	24,922,520	1360	16,947,314	25
12	1405B	Williamson County Recycling And Disposal Facility	Williamson	1	280,063	61,256,034	1306	40,000,190	119







#### **BRAZOS VALLEY COUNCIL OF GOVERNMENTS**

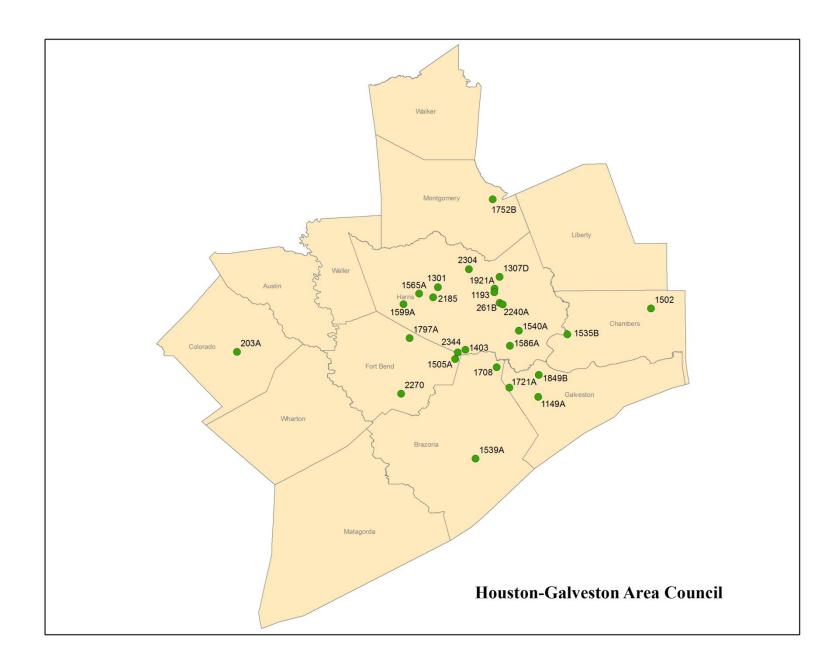
COG	Permit	Site Name	County	Type	<b>2013 Tons</b>	RemYds	Rate	RemTons	RemYrs
13	2292	Twin Oaks Landfill	Grimes	1	283,557	36,129,030	1490	26,916,127	90

#### DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
14	2105A	Angelina County Waste Management Center	Angelina	1	96,981	4,050,428	1200	2,430,257	19
14	720	City Of Nacogdoches Landfill	Nacogdoches	1	65,228	3,289,524	1166	1,917,792	25
14	2242A	Western Waste Of Texas Newton Complex	Newton	1	241,024	43,244,812	1458	31,525,468	80
14	1384A	Polk County Landfill	Polk	1	114,508	8,569,026	1408	6,032,594	50

#### SOUTHEAST TEXAS REGIONAL PLANNING COMMISSION

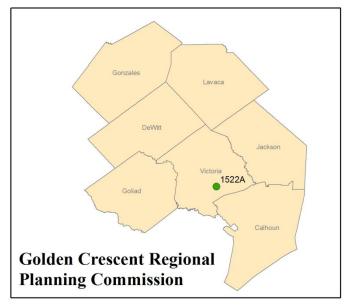
COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
15	2214A	IESI Hardin County Landfill	Hardin	1	58,202	1,205,318	1220	735,244	13
15	1486B	City Of Beaumont Landfill	Jefferson	1	196,044	19,374,367	1191	11,537,436	59
15	1815A	City Of Port Arthur Landfill	Jefferson	1	137,270	16,356,126	1000	8,178,063	39
15	2027	BFI Golden Triangle Landfill	Jefferson	1	223,743	9,107,846	2567	11,689,920	44



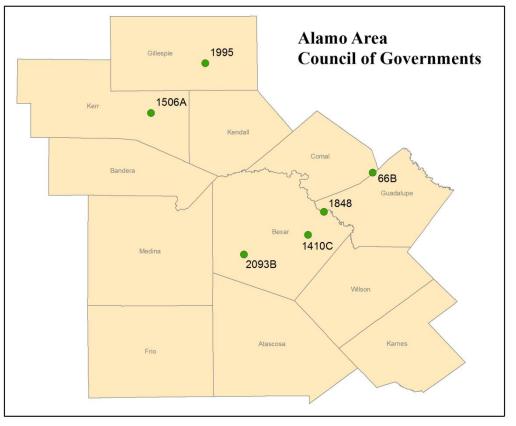
# HOUSTON-GALVESTON AREA COUNCIL

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
16	1539A	Seabreeze Environmental Landfill	Brazoria	1	742,469	25,696,275	1711	21,983,163	32
16	1708	Dixie Farm Road Landfill	Brazoria	4	39,456	2,263,032	880	995,734	25
16	1502A	Chambers County Landfill	Chambers	1	25,485	240,766	1200	144,460	9
16	1535B	Baytown Landfill	Chambers	1	292,007	10,479,578	1650	8,645,652	28
16	203A	Altair Disposal Services Landfill	Colorado	1	32,121	816,036	1200	489,622	16
16	1505A	Blue Ridge Landfill	Fort Bend	1	732,326	148,487,117	1463	108,618,326	87
16	1797A	Sprint Fort Bend County Landfill	Fort Bend	4	315,043	16,647,360	1140	9,488,995	34
16	2270	Fort Bend Regional Landfill	Fort Bend	1	811,497	40,629,375	1500	30,472,031	37
16	1149A	Galveston County Landfill	Galveston	1	357,141	5,279,516	1367	3,608,549	12
16	1721A	Coastal Plains Recycling And Disposal Facility	Galveston	1	437,147	13,931,140	1536	10,699,116	27
16	1849B	North County Landfill	Galveston	4	40	3,689,491	2130	3,929,308	50
16	261B	McCarty Road Landfill	Harris	1	1,873,262	26,679,128	2154	28,733,421	15
16	1193	Whispering Pines Landfill	Harris	1	9	10,902,381	2000	10,902,381	10
16	1301	Addicks Fairbanks Landfill	Harris	4	66,113	719,765	1240	446,254	5
16	1307D	Atascocita Recycling And Disposal Facility	Harris	1	1,055,468	44,167,459	1800	39,750,713	36
16	1403	Casco Hauling And Excavation Landfill	Harris	4	41,470	1,878,040	900	845,118	20
16	1540A	Greenshadows Landfill	Harris	4	87,833	3,002,070	1650	2,476,708	26
16	1565A	Fairbanks Landfill	Harris	4	16	51,086	1500	38,315	3
16	1586A	WCT Greenbelt Landfill	Harris	4	125,002	3,686,515	1200	2,211,909	18
16	1599A	Greenhouse Road Landfill	Harris	4	73,463	6,454,661	1750	5,647,828	39
16	1921A	USA Waste Of Texas Landfills	Harris	4	71,399	122,681	1254	76,921	1
16	2185	Hawthorn Park Landfill	Harris	4	230,905	1,080,908	1600	864,726	2
16	2240A	Ralston Road Landfill	Harris	4	69,594	1,058,303	1200	634,982	9
16	2304	Waste Corporation Of America Tall Pines LF	Harris	4	249,042	3,575,149	1200	2,145,089	9
16	2344	Lone Star Recycling & Disposal	Harris	4	200,598	13,277,395	1000	6,638,698	33
16	1752B	Security Landfill	Montgomery	1	372,933	14,680,165	1410	10,349,516	29

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# GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

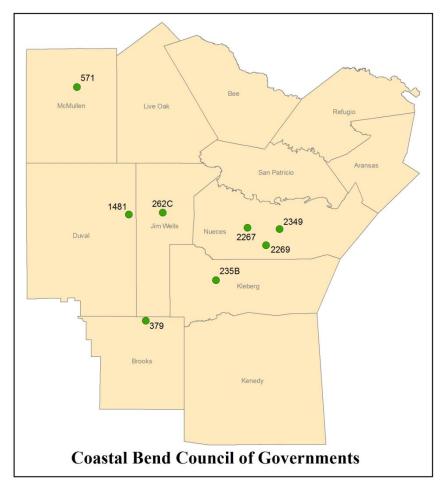
COG	OG   Permit   Site Name		County	Type	<b>2013 Tons</b>	RemYds	Rate	RemTons	RemYrs
17	1522A	City Of Victoria Landfill	Victoria	1	146,754	6,583,190	1251	4,117,785	29

#### ALAMO AREA COUNCIL OF GOVERNMENTS

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
18	1410C	BFI Waste Tessman Road Landfill	Bexar	1	781,332	75,298,483	1471	55,382,034	28
18	2093B	Covel Gardens Landfill Gas Power Station	Bexar	1	1,389,182	109,100,281	1373	74,897,343	86
18	66B	Mesquite Creek Landfill	Comal	1	339,801	12,991,279	1680	10,912,674	25
18	1995	City Of Fredericksburg Landfill	Gillespie	1	30,484	1,822,217	1180	1,075,108	35
18	1848	Beck Landfill	Guadalupe	4	223,125	6,522,309	1300	4,239,501	18
18	1506A	City Of Kerrville Landfill	Kerr	1	8,900	711,846	1009	359,126	39

#### SOUTH TEXAS DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
19	954	City Of Roma Landfill	Starr	1AE	3,883	62,532	850	26,576	6
19	1693A	City Of Laredo Landfill	Webb	1	365,195	4,995,340	1296	3,236,980	9
19	2286	Ponderosa Regional Landfill	Webb	1	1,985	88,266,534	1000	44,133,267	94
19	783A	San Ygnacio Landfill	Zapata	1AE&4AE	2,272	306,943	1000	153,472	36







#### COASTAL BEND COUNCIL OF GOVERNMENTS

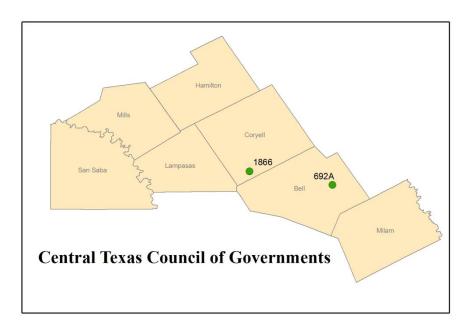
COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
20	379	Brooks County	Brooks	4AE	354	298,168	400	59,634	28
20	1481	Duval County Landfill	Duval	4AE	4,171	37,781	800	15,112	5
20	262C	City Of Alice Landfill	Jim Wells	1	41,437	987,935	1200	592,761	14
20	235B	City Of Kingsville Landfill	Kleberg	1	30,549	3,346,397	827	1,383,735	47
20	571	McMullen County	McMullen	1AE	500	12,668	750	4,751	10
20	2267	El Centro Landfill	Nueces	1	129,093	15,160,824	1516	11,491,905	53
20	2269	Cefe Valenzuela Landfill	Nueces	1	423,523	125,817,510	1175	73,917,787	96
20	2349	Gulley Hurst	Nueces	4	38,551	11,708,397	650	3,805,229	49

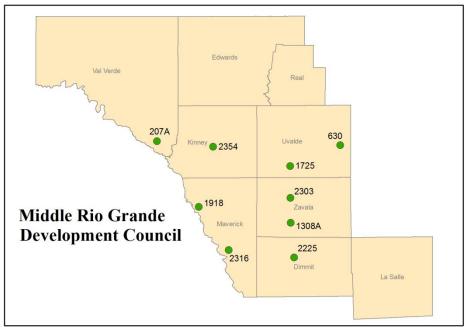
#### LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
21	1273A	City Of Brownsville Municipal Landfill	Cameron	1	254,783	29,082,998	1346	19,572,858	69
21	956B	City Of Edinburg Landfill	Hidalgo	1	413,365	7,550,104	1200	4,530,062	10
21	1727A	Penitas Landfill	Hidalgo	1AE	5,254	81,010	1000	40,505	3
21	1948A	BFI-Rio Grande Valley Regional Landfill	Hidalgo	1	259,508	151,329	1659	125,527	1
21	2302	City Of Edinburg Landfill	Hidalgo	4	104,927	10,725,050	940	5,040,774	35
21	2348	La Gloria Ranch Landfill	Hidalgo	1	31,230	111,078,606	1481	82,253,708	250

#### TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit	Permit Site Name		Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
22	523B	Hillside Landfill	Grayson	1	55,431	11,772,738	1100	6,475,006	117
22	2290	TASWA Disposal and Recycling Facility	Grayson	1	112,513	23,680,738	900	10,656,332	95





#### CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit Site Name		County	Type	2013 Tons	RemYds	Rate	RemTons	RemYrs
23	692A	Temple Recycling And Disposal Facility	Bell	1	378,395	8,998,258	1320	5,938,850	14
23	1866	Fort Hood Landfill	Coryell	1	31,153	2,879,547	1100	1,583,751	33

# MIDDLE RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit	Site Name	County	Туре	2013 Tons	RemYds	Rate	RemTons	RemYrs
24	2225	City Of Carrizo Springs Landfill	Dimmit	1AE	6,995	1,649,580	600	494,874	70
24	2354	Fort Clark Springs Association Landfill	Kinney	1AE	513	467,022	800	186,809	148
24	1918	City Of Eagle Pass And Maverick Landfill	Maverick	4AE	3,171	1,149,957	750	431,234	26
24	2316	Maverick County	Maverick	1	55,711	11,788,808	980	5,776,516	68
24	630	City Of Sabinal Landfill	Uvalde	4AE	7	3,595	400	719	8
24	1725	City Of Uvalde Landfill	Uvalde	1	25,641	607,027	1000	303,514	14
24	207A	City Of Del Rio Landfill	Val Verde	1	46,295	1,663,598	700	582,259	12
24	1308A	City Of Crystal City Landfill	Zavala	1AE	4,645	1,456,179	850	618,876	134
24	2303	Zavala County Landfill	Zavala	1AE	3,965	176,263	550	48,472	26

# Facility Data for MSW Processing Facilities

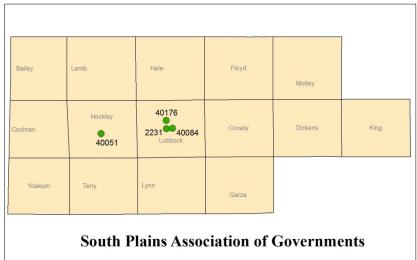
The maps and tables included in this section represent the active MSW processing facilities data reported for 2013. The maps and tables are organized by COG Region and county. All values are rounded to the nearest whole number.

#### **Key for Processing Facilities Data Tables**

Туре	Description
Type	Facility sub-types are identified by Arabic numbers with applicable abbreviations (e.g., 5TS) in the agency database
5AC	Medical waste autoclave facility
5GG	Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility
5MW	Medical waste processor
5RC	Mixed waste composting facility
5RR	Materials recovery facility (MRF)
5TL	Liquid Transfer Station
5TS	Transfer station
5WI	Incinerator (no electrical power generation)

2013 Tons - Total tons handled in fiscal year 2013 in terms of major permitted activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated).







#### PANHANDLE REGIONAL PLANNING COMMISSION

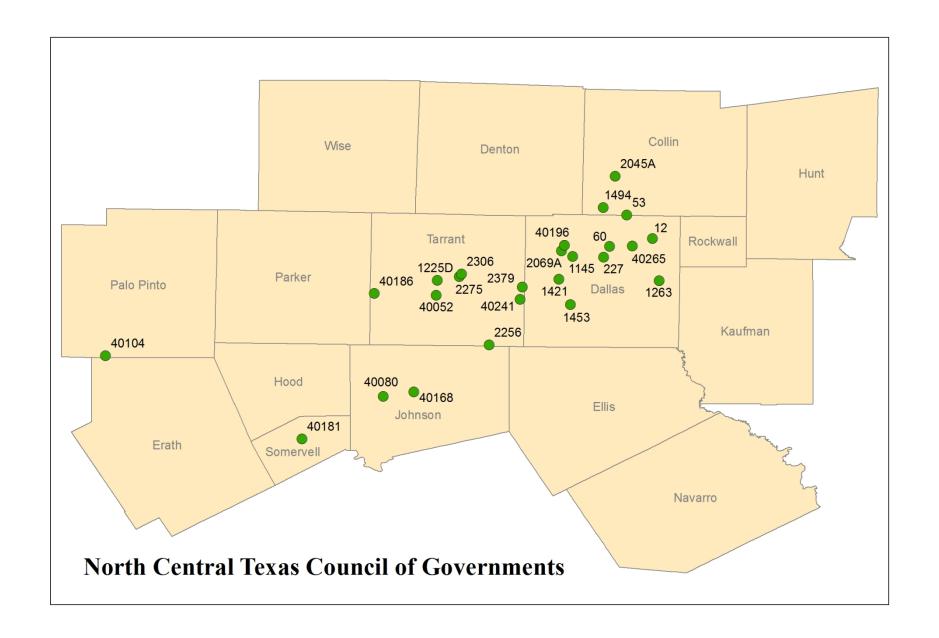
COG	Permit/Registration	Site Name	County	Type	2013 Tons
1	40192	City of Clarendon Transfer Station	Donley	5TS	1,364
1	43030	City of Pampa Liquid Waste Processing Facility	Gray	5GG	701
1	40026	City of Canadian Transfer Station	Hemphill	5TS	5,977
1	40015	City of Borger Transfer Station	Hutchinson	5TS	16,502
1	40031	City of Cactus Transfer Station	Moore	5TS	1,621
1	76A	City of Amarillo Transfer Station	Potter	5TS	157,956
1	40109	City of Stratford Transfer Station	Sherman	5TS	15

#### **SOUTH PLAINS ASSOCIATION OF GOVERNMENTS**

COG	Permit/Registration	Site Name	County	Type	2013 Tons
2	40051	City of Levelland Transfer Station	Hockley	5TS	9,500
2	2231	South Plains Disposal Facility	Lubbock	5GG	6,855
2	40084	Stericycle Lubbock Facility	Lubbock	5TS	1,910
2	40176	Caliche Canyon Transfer Station	Lubbock	5TS	281

#### NORTEX REGIONAL PLANNING COMMISSION

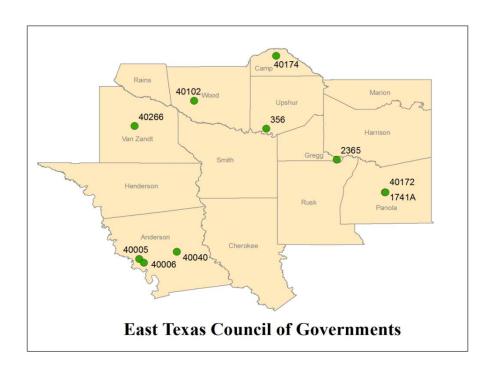
COG	Permit/Registration	Site Name	County	Туре	2013 Tons
3	40144	City of Seymour Transfer Station	Baylor	5TS	377
3	2295	IESI Bowie Transfer Station	Montague	5TS	40,440
3	1429	City of Wichita Falls Transfer Station	Wichita	5TS	78,931
3	2229	IMC Waste Disposal	Wichita	5GG	15,248
3	40059	City of Vernon Transfer Station	Wilbarger	5TS	17,575



#### NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Туре	2013 Tons
4	53	Lookout Drive Transfer Station	Collin	5TS	127,886
4	1494	Parkway Transfer Station	Collin	5TS	110,395
4	2045A	Custer Road Transfer Station	Collin	5TS	231,975
4	12	City of Garland Transfer Station	Dallas	5TS	106,442
4	60	Fair Oaks Transfer Station	Dallas	5TS	55,272
4	227	City of University Park Transfer Station	Dallas	5TS	12,,364
4	1145	Harry Hines Transfer Station	Dallas	5TS	146,365
4	1263	City of Mesquite Transfer Station	Dallas	5TS	45,284
4	1421	PSC Recovery Systems	Dallas	5GG	55,265
4	1453	City of Dallas Transfer Station	Dallas	5TS	54,430
4	2069A	Liquid Environmental Solutions of TX Dallas Facility	Dallas	5GG	121,119
4	40196	Community Waste Disposal Transfer Station	Dallas	5TS	64,782
4	40265	Stericycle Garland Facility	Dallas	5AC	14,002
4	40080	Harrington Environmental Liquid Transfer Station	Johnson	5TL	4,000
4	40168	Cleburne Transfer Station	Johnson	5TS	46,725
4	40104	IESI TX Lake Country Mingus Transfer Station	Palo Pinto	5TS	31
4	40181	Somervell County Transfer Station	Somervell	5TS	2,765
4	1225D	Cold Springs Processing & Disposal	Tarrant	5GG	76,558
4	2256	Southwaste Disposal Dallas Facility	Tarrant	5GG	89,077
4	2275	Fort Worth Transfer Station Material Recovery Facility	Tarrant	5TS	14,036
4	2306	IESI Minnis Drive Transfer Station	Tarrant	5TS	7,076
4	2379	Liquitek Arlington Liquid Waste Facility	Tarrant	5GG	8,200
4	40052	Southwest Paper Stock Inc	Tarrant	5TS	14,872
4	40186	Westside Transfer Station	Tarrant	5TS	144,956
4	40241	Oncore Technology	Tarrant	5MW	593

ARK-TEX COUNCIL OF GOVERNMENTS (COG 5) – NO DATA AVAILABLE





#### EAST TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	<b>2013 Tons</b>
6	40005	TDCJ Beto Transfer Station	Anderson	5TS	1,185
6	40006	TDCJ Coffield Transfer Station	Anderson	5TS	1,503
6	40040	IESI Palestine Transfer Station	Anderson	5TS	30,492
6	40174	Pittsburgh Transfer Station	Camp	5TS	12,425
6	2365	Edwards Construction	Gregg	5GG	4,720
6	1741A	Sharps Environmental Services	Panola	5WI	785
6	40172	City of Carthage Transfer Station	Panola	5TS	13,034
6	356	Vital Earth Resources	Upshur	5RC	1,038
6	40266	City of Canton Transfer Station	Van Zandt	5TS	1,638
6	40102	Upper Sabine Valley Solid Waste Municipal District Transfer Station	Wood	5TS	12,138

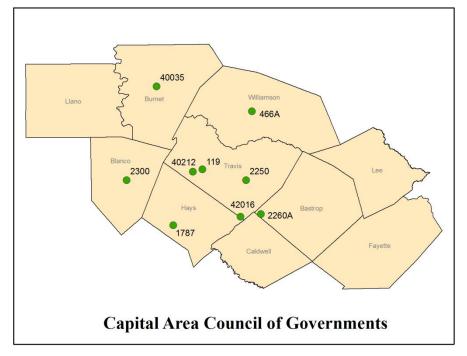
# WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS (COG 7) – NO DATA AVAILABLE

#### RIO GRANDE COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2013 Tons
8	2355	Liquid Environmental Solutions of TX El Paso Facility	El Paso	5GG	13,884
8	40094	Stericycle El Paso Medical Waste Transfer Station	El Paso	5TS	1,472
8	40237	El Paso C&D Recycling Plant	El Paso	5RR	4,342
8	42038	Fort Bliss Bio Cell Facility	El Paso	5RC	60
8	42036	Cerro Alto Monofill Sludge Facility	Hudspeth	5RC	2,728







#### PERMIAN BASIN REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Type	<b>2013 Tons</b>
9	43028	City of Stockton Liquid Waste Processing Facility	Pecos	5GG	362

#### CONCHO VALLEY COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2013 Tons
10	2357	San Angelo Pro Pump Dewatering & Compost Facility	Tom Green	5RC	3,601
10	2359	D's Recycling Facility	Tom Green	5RC	1,129
10	42022	Kickapoo Composting Facility	Tom Green	5RC	2,335

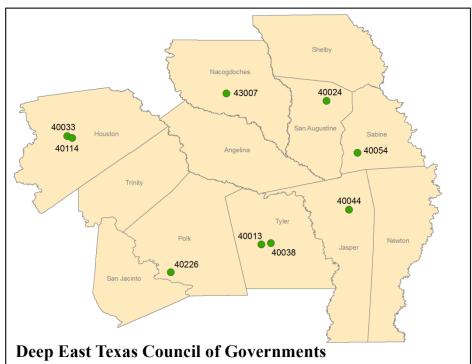
# HEART OF TEXAS COUNCIL OF GOVERNMENTS (COG 11) – NO DATA AVAILABLE

# CAPITAL AREA COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	<b>2013 Tons</b>
12	2260A	Stericycle Austin Autoclave	Bastrop	5AC	8,087
12	2300	IESI Blanco County Transfer Station	Blanco	5TS	21,181
12	40035	BFI Burnet Transfer Station	Burnet	5TS	36,046
12	1787	Hays County Transfer Station	Hays	5TS	1,350
12	119	Texas Disposal System Eco Depot	Travis	5TS	7,001
12	2250	Liquid Environmental Solutions of TX Austin Facility	Travis	5GG	44,060
12	40212	Tom Dye Liquid Waste Transfer Station	Travis	5TL	506
12	42016	Texas Organic Recovery	Travis	5RC	55,119
12	466A	Georgetown Transfer Station	Williamson	5TS	54,789







#### BRAZOS VALLEY COUNCIL OF GOVERNMENTS

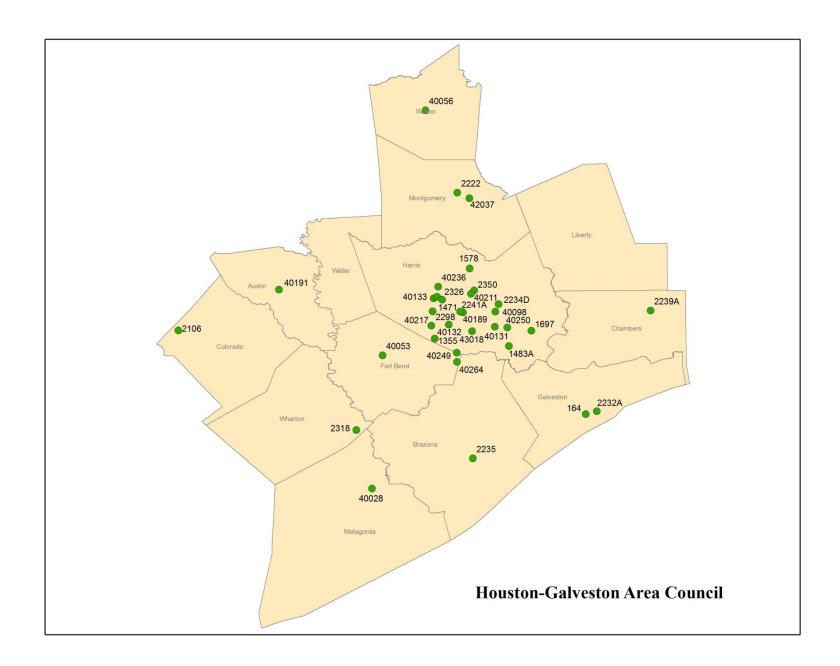
COG	Permit/Registration	Site Name	County	Туре	<b>2013 Tons</b>
13	42003	Bryan Compost Facility	Brazos	5RC	16,469
13	43026	Still Creek Liquid Waste Processing Facility	Brazos	5GG	4,709
13	40018	City of Brenham Transfer Station Facility	Washington	5TS	25,425
13	40173	Washington County Transfer Station	Washington	5TS	33,744

#### DEEP EAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Туре	<b>2013 Tons</b>
14	40033	Crocket Transfer Station	Houston	5TS	858
14	40114	City of Crockett Transfer Station	Houston	5TS	5,357
14	40044	City of Jasper Transfer Station	Jasper	5TS	8,598
14	43007	City of Nacogdoches Grease Treatment Facility	Nacogdoches	5GG	2,445
14	40226	Pro Star Waste	Polk	5TS	3,721
14	40054	Don General Services	Sabine	5TS	3,472
14	40024	City of San Augustine Transfer Station	San Augustine	5TS	1,588
14	40013	City of Woodville Transfer Station	Tyler	5TS	3,306
14	40038	Tyler County Transfer Station	Tyler	5TS	1,768

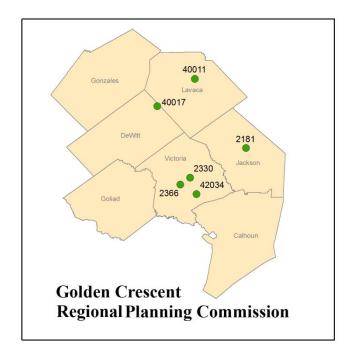
#### SOUTHEAST TEXAS REGIONAL PLANNING COMMISSION

COG	Permit/Registration	Site Name	County	Туре	2013 Tons
15	40164	JTB Recycling Liquid Waste Transfer Station	Jefferson	5TL	274
15	40225	Triangle Waste Solutions Transfer Station	Jefferson	5TS	16,495
15	40231	Biomedical Waste Solutions Medical Waste Processing Facility	Jefferson	5MW	3,065
15	43000	JTB Recycling Liquid Waste Processing Facility	Jefferson	5GG	9,588

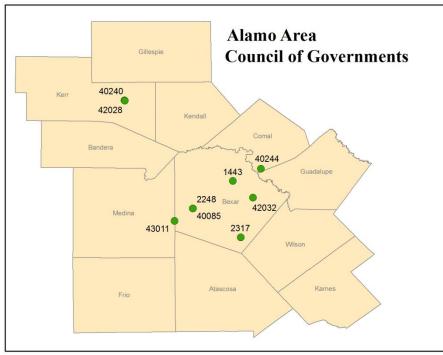


# HOUSTON-GALVESTON AREA COUNCIL (\*ALL INCOMING MATERIALS WERE REPORTED AS DIVERTED BY THE FACILITY)

COG	Permit/Registration	Site Name	County	Type	2013 Tons
16	40191	Country Waste Inc Transfer Station	Austin	5TS	8,287
16	2235	Brazoria County Recycling Center	Brazoria	5RR	0*
16	2239A	WM Resource Recovery & Recycling Facility	Chambers	5WI	2,423
16	2106	City of Weimar Transfer Station	Colorado	5TS	32,635
16	40053	Best Septic Tank Cleaning	Fort Bend	5TL	2,056
16	40264	Stericycle Fresno Facility	Fort Bend	5TS	2,642
16	164	Galveston Transfer Station	Galveston	5TS	76,824
16	2232A	UTMB Galveston Solid Waste Incineration Facility	Galveston	5WI	430
16	1355A	Ruffino Hills Transfer Station	Harris	5TS	270,724
16	1471	Sam Houston Recycling Center	Harris	5TS	89,622
16	1483A	Koenig Street Transfer Station	Harris	5TS	108,390
16	1578	Hardy Road Transfer Station	Harris	5TS	279,021
16	1697	City of Deer Park Transfer Station	Harris	5TS	20,597
16	2234D	Liquid Environmental Solutions of TX Houston Facility	Harris	5GG	251,396
16	2241A	Southwaste Disposal Hurst Facility	Harris	5GG	159,779
16	2298	B R Perrin Plant	Harris	5GG	32,000
16	2326	Stericycle Guhn Rd Processing Facility	Harris	5MW	239
16	2350	Big K Environmental	Harris	5GG	102,717
16	40098	BFI Houston Resource Renewal Complex Transfer Station Facility	Harris	5TS	0*
16	40131	Houston Southeast Transfer Station	Harris	5TS	205,182
16	40132	Houston Southwest Transfer Station	Harris	5TS	265,151
16	40133	Houston Northwest Transfer Station	Harris	5TS	167,026
16	40189	Egbert Transfer Station	Harris	5TS	58,488
16	40211	Sprint Recycling Center - Northeast	Harris	5TS	6,489
16	40217	Tanner Road Facility	Harris	5TS	70,336
16	40236	Excell Disposal Waste Containers	Harris	5TS	15,856
16	40249	Lone Star Recycling & Disposal Facility Transfer Station	Harris	5TS	118,048
16	40250	Lone Star SRD Shredding Recycling Disposal Facility	Harris	5AC	48
16	43018	A Affordable Vacuum Services and Disposal	Harris	5GG	31,015
16	40028	Matagorda County Transfer Station	Matagorda	5TS	17,564
16	2222	Stericycle Inc Conroe Facility	Montgomery	5AC	12,693
16	42037	New Earth Composting	Montgomery	5RC	64,845
16	40056	City of Huntsville Transfer Station	Walker	5TS	38,552
16	2318	Don Tol Compost Facility	Wharton	5RC	2,563







#### GOLDEN CRESCENT REGIONAL PLANNING COMMISSION

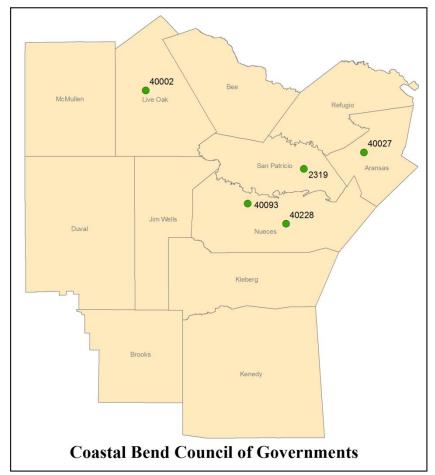
COG	Permit/Registration	Site Name	County	Туре	2013 Tons
17	40017	City of Yoakum Transfer Station	Dewitt	5TS	27,291
17	2181	Jackson County Transfer Station & Recycling Center	Jackson	5TS	4,073
17	40011	City of Hallettsville Transfer Station	Lavaca	5TS	496
17	2330	Victoria Environmental	Victoria	5GG	39,143
17	2366	Victoria Regional WWTP Grit Trap Waste Facility	Victoria	5GG	859
17	42034	Victoria Compost Facility	Victoria	5RC	19,746

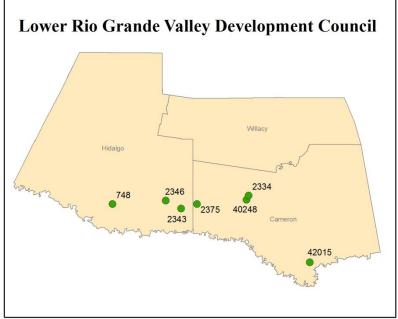
#### ALAMO AREA COUNCIL OF GOVERNMENTS

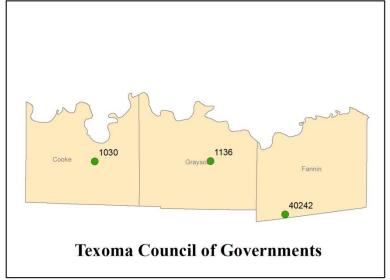
COG	Permit/Registration	Site Name	County	Туре	2013 Tons
18	1443	City of San Antonio Starcrest Transfer Station	Bexar	5TS	149,332
18	2248	Liquid Environmental Solutions of TX San Antonio Facility	Bexar	5GG	43,713
18	2317	Southwaste Disposal LLC San Antonio Facility	Bexar	5RC	47,389
18	40085	Liquid Environmental Solutions of TX San Antonio Facility	Bexar	5TS	4,539
18	42032	New Earth Composting	Bexar	5RC	82,023
18	40244	Medsharps LLC Schertz Facility	Comal	5MW	2,840
18	40240	City of Kerrville Transfer Station	Kerr	5TS	48,085
18	42028	City of Kerrville Composting Facility	Kerr	5RC	10,058
18	43011	City of LaCoste	Medina	5GG	64,153

#### SOUTH TEXAS DEVELOPMENT COUNCIL

COG	Permit/Registration	ion Site Name		Type	2013 Tons
19	40103	Jim Hogg County Transfer Station	Jim Hogg	5TS	8,450
19	40238	Starr County Transfer Station	Starr	5TS	6,444







#### COASTAL BEND COUNCIL OF GOVERNMENTS

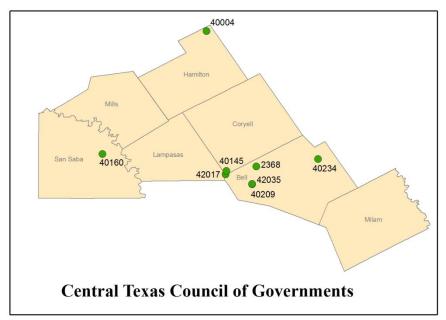
COG	Permit/Registration	Site Name	County	Type	2013 Tons
20	40027	Aransas County Transfer Station	Aransas	5TS	4,501
20	40002	Live Oak County Transfer Station	Live Oak	5TS	862
20	40093	Liquid Environmental Solutions of TX Robstown Facility	Nueces	5TL	645
20	40228	JC Elliott Transfer Station	Nueces	5TS	81,689
20	2319	Texas Sludge Disposal Composting Facility	San Patricio	5RC	10,108

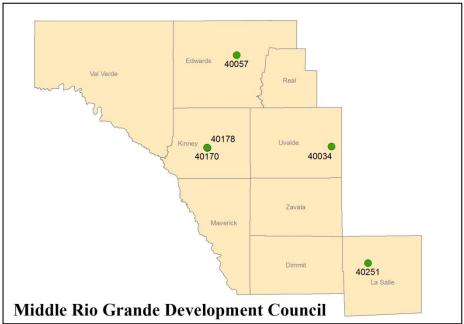
#### LOWER RIO GRANDE VALLEY DEVELOPMENT COUNCIL

COG	Permit/Registration	Site Name	County	Type	2013 Tons
21	2334	Stericycle Harlingen Processing Facility	Cameron	5MW	1,885
21	2375	La Feria Transfer Station	Cameron	5TS	21,316
21	40248	City of Harlingen Transfer Station	Cameron	5TS	63,558
21	42015	City of Brownsville Composting Facility	Cameron	5RC	22,466
21	748	Pharr Transfer Station	Hidalgo	5TS	30,656
21	2343	Valley De-Watering Services Inc	Hidalgo	5GG	11,694
21	2346	Liquid Environmental Solutions of TX Weslaco Facility	Hidalgo	5GG	21,272

#### TEXOMA COUNCIL OF GOVERNMENTS

COG	Permit/Registration Site Name		County	Type	<b>2013 Tons</b>
22	1030	City of Gainesville Transfer Station	Cooke	5TS	55,951
22	40242	Medical Waste of North Texas	Fannin	5MW	11,323
22	1136	City of Sherman Transfer	Grayson	5TS	11,240





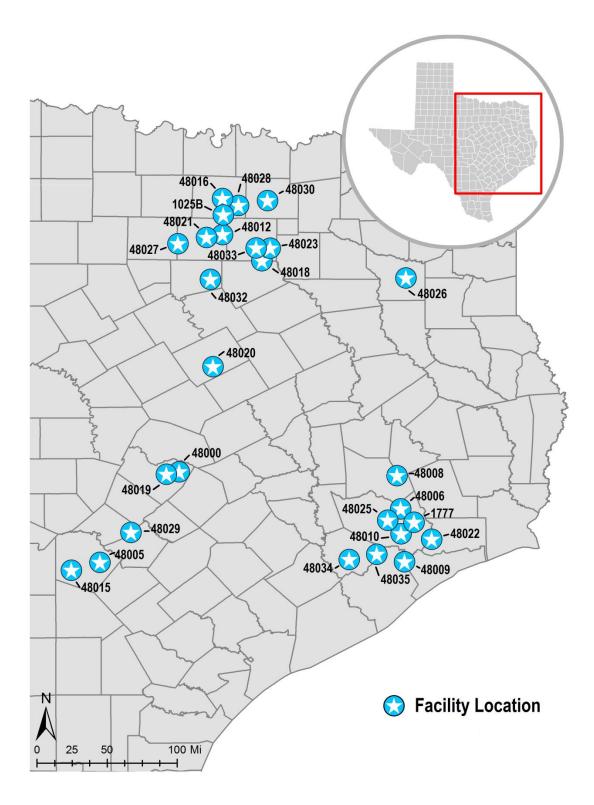
# CENTRAL TEXAS COUNCIL OF GOVERNMENTS

COG	Permit/Registration	Site Name	County	Type	2013 Tons
23	2368	S & M Vacuum and Waste, Ltd	Bell	5GG	3,879
23	40209	Killeen Transfer Station	Bell	5TS	94,771
23	40234	Stericycle Temple	Bell	5TS	482
23	42035	Bell County WCID 1 Regional Compost Facility	Bell	5RC	7,398
23	40145	City of Copperas Cove Transfer Station	Coryell	5TS	24,524
23	42017	City of Copperas Cove Compost Facility	Coryell	5RC	3,715
23	40004	City of Hico Transfer Station	Hamilton	5TS	8
23	40160	City of San Saba Transfer Station	San Saba	5TS	4,076

# MIDDLE RIO GRANDE DEVELOPMENT COUNCIL

COG	Permit/Registration	egistration Site Name		Туре	2013 Tons
24	40057	City of Rock Springs Transfer Station	Edwards	5TS	1,650
24	40170	City of Brackettville Transfer Station	Kinney	5TS	1,455
24	40178	Fort Clark Springs Transfer Station	Kinney	5TS	1,254
24	40251	City of Cotulla Transfer Station	La Salle	5TS	39
24	40034	City of Sabinal Transfer Station	Uvalde	5TS	1,220

# Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use



#### Active gas recovery facilities (Type 9GR), organized by COG Region and Facility Permit or Registration Number

Key:

LFG – Landfill Gas

LFGTE - Landfill Gas to Energy

Landfill – Permit Number of the landfill from which the LFGTE facility recovers gas

Gas Processed – Estimated Gas Processed at the facility in Fiscal Year2013

Gas Distributed Offsite – Estimated Gas Distributed Off-site from the facility in Fiscal Year 2013

Power Generated & Used – Estimated Gas Generated and Used On-site by the facility in Fiscal Year 2013

Power Generated & Sold – Estimated Gas Generated and Sold by the facility in Fiscal Year 2013

ft<sup>3</sup> – standard cubic feet

kWh – kilowatt hours

cog	Permit/ Registration	Site Name	County	Landfill	Gas Processed (ft³)	Gas Distributed Off-site (ft³)	Power Generated & Used (kWh)	Power Generated & Sold (kWh)
4	1025B	DFW Recycling And Disposal Facility	Denton	1025B	1,818,508,080	0	73,374,176	32,566,657
4	48012	Landfill Gas Processing Plant	Tarrant	358A	653,829	653,829	0	0
4	48016	City Of Denton Landfill	Denton	1590A	286,119,523	0	4,817	13,517,976
4	48018	Waste Management Skyline Landfill	Dallas/Ellis	42C	864,344,000	0	38,752,928	2,041,072
4	48021	Fort Worth Methane	Tarrant	464A	267,426,174	0	473,150	11,125,000
4	48023	Trinity Oaks Landfill	Dallas	556	432,012,776	0	15,997,100	1,044,800
4	48027	Westside Landfill Gas To Electric Facility	Tarrant	1019A	719,896,000	0	31,411,995	1,343,288
4	48028	Camelot Landfill Gas To Energy Facility	Denton	1312A	0	0	25,095,897	24,168,789
4	48030	McKinney Landfill	Collin	568A	0	0	22,322,150	21,491,965
4	48032	IESI Turkey Creek Landfill	Johnson	1417B	556,918	278,459	0	0
4	48033	McCommas Bluff LFG Processing Facility	Dallas	62	2,887,530,000	1,740,698,000	0	0
6	48026	Greenwood Farms Landfill	Smith	1972A	672,262,000	336,131,000	0	0
11	48020	City Of Waco Landfill	McLennan	948A	382,284,000	191,062,000	0	0
12	48000	Gas Recovery Systems	Travis	1447A	419,539,895	0	17,280,688	1,451,921
12	48019	Austin Community Landfill Power Station	Travis	249D	819,478,975	0	38,601,000	1,900,300
16	1777	McCarty Road Landfill Gas Recovery Facility	Harris	261B	2,514,506,000	1,257,423,000	0	0
16	48006	Atascocita Recycling And Disposal Facility	Harris	1307D	0	0	73,413,000	68,564,000
16	48008	Security Landfill RDF	Montgomery	1752B	0	0	24,550,000	23,545,000
16	48009	Coastal Plains LFGTE Facility	Galveston	1721A	0	0	31,847,000	29,464,000

COG	Permit/ Registration	Site Name	County	Landfill	Gas Processed (ft³)	Gas Distributed Off-site (ft³)	Power Generated & Used (kWh)	Power Generated & Sold (kWh)
16	48010	Blue Bonnet LFGTE Facility	Harris	1279	О	0	5,087,000	4,504,000
16	48022	Baytown LFGTE Facility	Chambers	1535B	0	0	19,589,000	18,140,000
16	48025	Ameresco McCarty Energy	Harris	261B	1,437,712,520	1,437,712,520	0	0
16	48034	Fort Bend Landfill Gas Treatment Facility	Fort Bend	2270	451,002,650	46,624,000	0	0
16	48035	Blue Ridge Landfill Gas Compressor Station	Brazoria	1505A	1,120,579,200	1,120,579,200	0	0
18	48005	Tessman Road Landfill Gas Power Station	Bexar	1410C	0	0	2,446	49,566
18	48015	Covel Gardens Landfill Gas Power Station	Bexar	2093B	0	0	4,899	65,793
18	48029	Mesquite Creek Landfill	Comal	66B	493,072,726	0	21,808,629	702,879

# **MSW Waste and Material Type Descriptions**

Waste/Material Type	Description
Brush	Cuttings or trimmings from trees, shrubs, or lawns and similar materials.
CESQG	Conditionally exempt small-quantity generator – a person that generates no more than 220 pounds of hazardous waste in a calendar month.
Class 1 wastes	Any industrial solid waste or mixture of industrial solid wastes that because of its concentration, or physical or chemical characteristics is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, or may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or disposed of or otherwise managed, as further defined in §335.505 of this title (relating to Class 1 Waste Determination).
Class 2 wastes	Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class 1, or Class 3 as defined in §335.506 of this title (relating to Class 2 Waste Determination).
Class 3 wastes	Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in §335.507 of this title (relating to Class 3 Waste Determination).
Commercial solid waste	All types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, excluding residential and industrial wastes.
Construction/Demolition Waste	Waste resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics.
Covered television equipment	A direct view or projection television with a viewable screen of nine inches or larger whose display technology is based on cathode ray tube, plasma, liquid crystal, digital light processing, liquid crystal on silicon, crystal reflective technology, light-emitting diode, or similar technology. This definition also covers a display that is peripheral to a computer that contains a television tuner. This program applies to television equipment that is purchased primarily for personal or home-business use.
Grease trap waste	Material collected in and from a grease interceptor in the sanitary sewer service line of a commercial, institutional, or industrial food service or processing establishment, including the solids resulting from dewatering processes.
Grit trap waste	Grit trap waste includes waste from interceptors placed in the drains prior to entering the sewer system at maintenance and repair shops, automobile service stations, car washes, laundries, and other similar establishments.

Waste/Material Type	Description
Litter	Rubbish and putrescible waste.
Medical waste	Treated and untreated special waste from health care-related facilities that is comprised of animal waste, bulk blood, bulk human blood, bulk human body fluids, microbiological waste, pathological waste, and sharps as those terms are defined in 25 TAC §1.132 (relating to Definitions) from the sources specified in 25 TAC §1.134 (relating to Application), as well as regulated medical waste as defined in 49 Code of Federal Regulations §173.134(a)(5), except that the term does not include medical waste produced on a farm or ranch as defined in 34 TAC §3.296(f) (relating to Agriculture, Animal Life, Feed, Seed, Plants, and Fertilizer), nor does the term include artificial, nonhuman materials removed from a patient and requested by the patient, including, but not limited to, orthopedic devices and breast implants.
Monofill	A landfill that is granted a permit by rule, for a period of up to five years to a county or municipality with a population of 12,000 people or less to dispose of demolition waste from properties with nuisance or abandoned building.
Municipal solid waste	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.
NHIW	Non-Hazardous Industrial Waste. Includes Class 1 non-hazardous, Class 2 & Class 3 wastes.
Non-RACM	Non-regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61. This is asbestos material in a form such that potential health risks resulting from exposure to it are minimal.
Paper	A material made from plant fibers (such as but not limited to wood pulp, rice hulls, and kenaf). The sludge byproduct resulting from the production of paper may be approved as a feedstock pursuant to §332.33(b) of this title (relating to Required Forms, Applications, Reports, and Request To Use the Sludge Byproduct of Paper Production).
RACM	Regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61, as amended, includes: friable asbestos material, Category I nonfriable ACM that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations.
Residential Waste (Household waste)	Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple houses, hotels, and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include yard waste or brush that is completely free of any household wastes.
Septage	The liquid and solid material pumped from a septic tank, cesspool, or similar sewage treatment system.
Sludge	Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water-supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.

Waste/Material Type	Description
Tires (Scrap)	Any tire that can no longer be used for its original intended purpose. Only split, quartered, or shredded tires may be disposed of in a landfill.
Television Recycler	A person who separates collected television equipment and refurbishes that equipment for reuse, or processes equipment to be returned to use in the form of raw materials or products. The term does not include an entity that solely collects or sorts television equipment prior to shipment for recycling.
Used Oil	Any oil that has been refined from crude oil, has been used, and, as a result of such use, is contaminated by physical or chemical impurities.
White Goods	Discarded large household appliances such as refrigerators, stoves, washing machines, or dishwashers.
Yard Waste	Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.