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Municipal Solid Waste in Texas: *A Year in Review*

FY 2016 Data Summary and Analysis

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FY 2016 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 of the Texas Commission on Environmental Quality (TCEQ). The summary includes data on the types and amounts of waste disposed and processed at the state's permitted and registered MSW facilities. The report also includes an estimate of the state's remaining MSW landfill 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 2016 in this annual summary are related to fiscal year 2016 (September 1, 2015 through August 31, 2016).

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 TCEQ covering the types and amounts of waste processed or disposed at an authorized facility.

Data Sources

The data in this summary were from annual reports submitted by owners or operators of 195 active landfills and 202 active processing facilities. The submitted data were reviewed, and discrepancies were reconciled 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),
- facility activities (e.g., types and amounts of waste accepted for disposal or processing at a facility), and
- facility characteristics (e.g., landfill elevations, monitoring well data, other authorizations within a facility authorized boundary)

Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population for Counties: April 1, 2010 to July 1, 2016*, available at www.census.gov/data/tables/2016/demo/popest/counties-total.html.

Facility Information

MSW facilities in Texas are classified according to the method of processing or disposal (30 TAC §330.5).

Landfills (disposal facilities)

This section provides a summary of MSW landfill types, activity, and capacity in 2016.

Type I landfill

A Type I landfill is the standard landfill for MSW disposal in Texas. In 2016, there were 98 Type I facilities, accounting for 50% of all active landfills, about 89 % of the total waste disposed, and 95% of the total statewide remaining capacity.

Type IV landfill

A Type IV landfill only accepts brush, construction or demolition (C&D) waste, and other similar nonputrescible waste. In 2016, there were 22 Type IV facilities, accounting for 11% of all active landfills, almost 10% of the total waste disposed, and 4% of the total statewide remaining capacity. These landfills were not distributed evenly across the state; approximately 64% were in the Houston-Galveston Area Council's region (COG-16).

Arid-exempt (AE) landfill

Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt (AE) landfills. These landfills are exempt from liner and groundwater monitoring requirements, but are limited in the amount of waste they may accept (30 TAC §330.5(b)). In 2016, there were 69 AE landfills, accounting for approximately 36% of the total number of active landfills, 1% of the total waste disposed, and 1% of the total statewide remaining capacity.

Monofill

Counties or municipalities with 12,000 or fewer people may 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 a county or municipality. In 2016, there were 6 monofills, accounting for 3% of all active landfills.

Landfills Reporting

MSW Records indicated that in 2016 there were 195 permitted MSW landfills actively accepting and managing waste (Figure 1); all active facilities submitted reports.

Facility data for the 2016 active landfills are presented in the *Facility Data for MSW Landfills* section of this report. Information from landfill annual reports is also available online through the TCEQ's Central Registry website at <www.tceq.texas.gov/goto/cr-searchid>.

To access an online report for a specific landfill:

- Enter an MSW permit number, including any amendment letter (e.g., 1312A) in the *Program ID* field and click on the *Search* button
- On the *Regulated Entity Information* results page, scroll down to the table of *Permits, Registrations, or Other Authorizations* and select the active "Municipal Solid Waste Disposal" ID Number in the table
- In the resulting list of *Related Information*, select "Periodic Reports"
- In the "Select Report" field, select "MSW Annual Report" and click on the *Search* button
- In the "Select Year" field, select the year of interest and click on the *Search* button

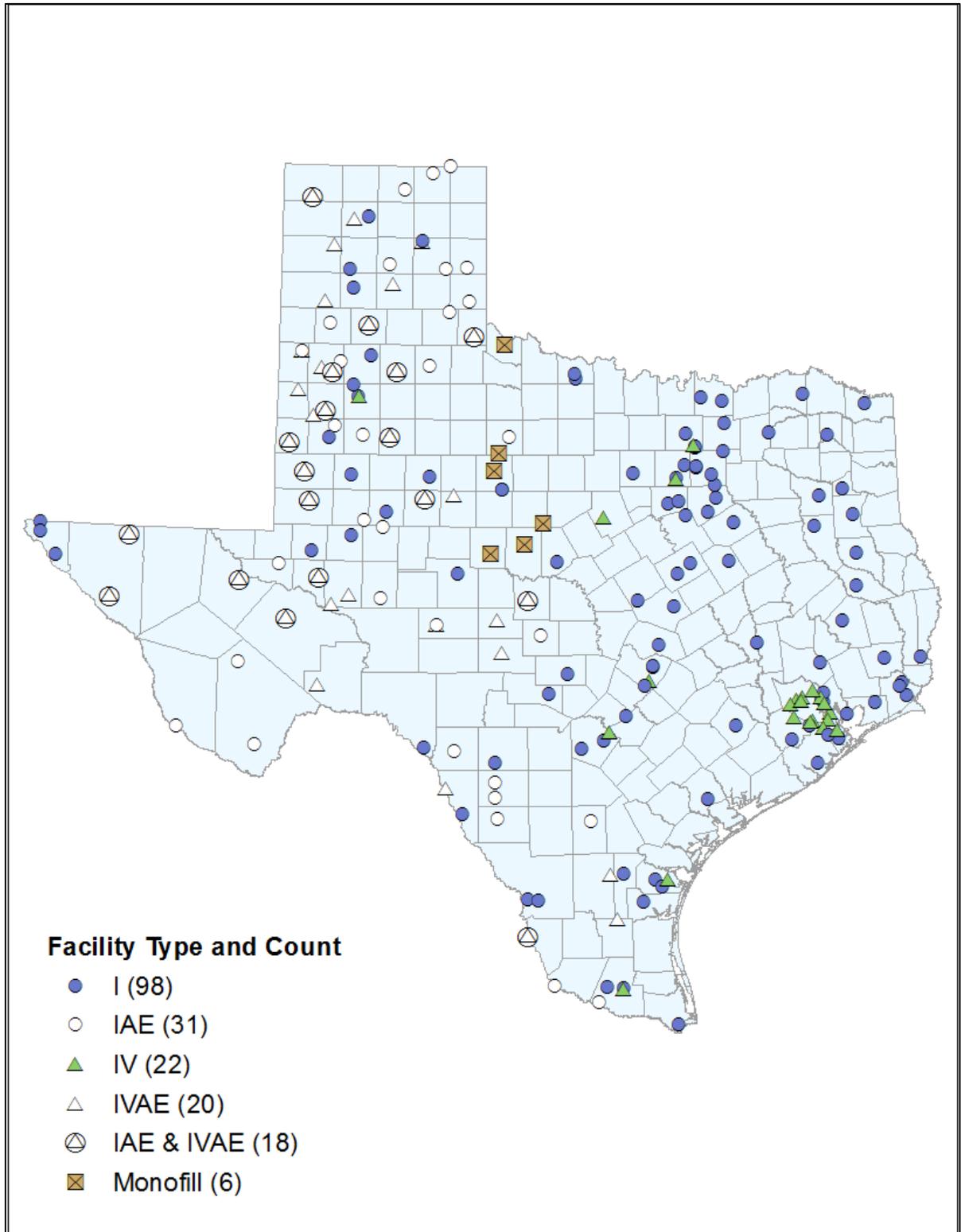


Figure 1. Active Texas MSW Landfills in 2016

Processing Facilities

This section provides a summary of processing facility types and activity in 2016. Compost facilities do not process waste, as defined for Type V facilities, but are counted as processing facilities for purpose of this annual summary.

Type V facility

Type V facilities store or process MSW. Processing includes transfer, incineration, shredding, grinding, baling, salvaging, separation, dewatering, or reclamation of MSW. Type V facilities may be authorized by permit. However, certain Type V facilities may qualify for authorization by registration if specific requirements are met. For example, a Type V transfer station that includes a material recovery operation and recovers at least 10% (by weight) of the incoming waste stream for reuse or recycling would qualify for a registration. Type V facilities processed about 7.4 million tons in 2016.

Type IX facility

A Type IX facility is an energy, material, gas recovery for beneficial use or landfill mining facility located within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill. These facilities are authorized by registration. Type IX facilities do not process waste, as defined for Type V facilities, but they are classified as processing facilities by rule. In 2016, Type IX facilities recovering landfill gas for beneficial use estimated approximately:

- 20.5 billion cubic feet (ft³) of gas processed;
- 5.3 billion ft³ of gas distributed off-site;
- 488 million kWh of power generated and sold; and
- 276 million kilowatt hours (KWh) of power generated and used on site.

Compost facility

A compost facility processes organic materials that are diverted from a waste stream. Owners or operators of compost facilities are required to notify TCEQ or obtain a registration or permit, depending upon the types of materials that will be accepted. Composting operations at MSW landfills may be authorized under the landfill permit.

Annual reports are required for registered and permitted compost facilities. In 2016, there was 560, 077 tons of organic material composted, as reported by 10 permitted MSW landfills and 21 compost facilities (8 permitted and 13 registered).

Processing Facilities Reporting

MSW processing facilities are differentiated by sub-types in MSW Records (Table 1) by a number followed by letters. For example, “5GG” designates a Type V processing facility for grease trap and grit trap waste. For 2016, MSW Records indicated that there were 202 active permitted or registered MSW processing facilities (175 Type V and 27 Type IX); all active processing facilities submitted annual reports.

Table 1. Active MSW Processing Facilities in 2016

Facility Type	Permitted	Registered
Autoclave (5AC)	2	7
Liquid waste processor (5GG)	23	7
Medical waste processor (5MW)	1	3
Recycling & Recovery (5RR)	1	1
Liquid waste transfer station (5TL)	0	4
Transfer station (5TS)	32	71
Waste incinerator (5WI)	2	0
Composting (5RC)	8	13
Gas recovery (9GR)	2	25
Total	71	131

Facility data for the Type V processing facilities and composting facilities active in 2016 are presented in the *Facility Data for MSW Processing Facilities* section of this report.

Facility data for the Type IX facilities recovering landfill gas for beneficial use in 2016 are presented in the *Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use* section of this report.

Information from Type V, compost, and Type IX facilities is also available online through the TCEQ’s Central Registry website at www.tceq.texas.gov/goto/cr-searchid.

To access an online report for a specific processing facility:

- Enter an MSW processing facility permit, including any amendment letter (e.g., 1312A), or registration number (e.g., 40132) in the *Program ID* field and click on the *Search* button

- On the *ID Search Results List* page, select the “Municipal Solid Waste Processing ID Number” in the table
- In the resulting list of *Related Information*, select “Periodic Reports”
- In the “Select Report” field, select “MSW Annual Report” and click on the *Search* button
- In the “Select Year” field, select the year of interest and click on the *Search* button

Other Information about Landfills and Processing Facilities

Use of scales

Operators for approximately 75 % of the MSW landfills and 53% of the MSW processing facilities reported using scales to measure all or some of their accepted waste or feedstock material in 2016. For facilities without scales (as well as many facilities with scales) accepted waste or feedstock material was measured by estimated volume (i.e., cubic yards).

Texas municipal solid waste fee

Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code requires the TCEQ to charge a fee on all solid waste that is disposed of within the state. Current fee rates for waste received by MSW landfills and processors for disposal are presented in Table 2.

Table 2. Texas Municipal Solid Waste Fee Rates

Unit of Measure	Landfills	Processors for Disposal (includes incinerators, composting, and shredding facilities, and similar facilities or processes)
Ton	\$0.94 per ton	\$0.47 per ton
Cubic yard (compacted)	\$0.30 per cubic yard	\$0.15 per cubic yard
Cubic yard (uncompacted)	\$0.19 per cubic yard	\$0.095 per cubic yard

MSW facility tipping fees

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

In 2016, the average statewide tipping fees charged by MSW landfills were:

- \$35.06 per ton, with 139 facilities reporting;
- \$13.42 per compacted cubic yard, with 35 facilities reporting; and
- \$13.54 per uncompacted cubic yard, with 70 facilities reporting.

In 2016, the average statewide tipping fees charged by MSW processing facilities were:

- \$55.77 per ton, with 56 facilities reporting;
- \$0.18 per gallon, with 38 facilities reporting;
- \$0.53 per pound, with 12 facilities reporting;
- \$14.37 per compacted cubic yard; with 16 facilities reporting; and
- \$16.04 per uncompacted cubic yard, with 38 facilities reporting.

Facility ownership and related disposal and capacity information

Most MSW facilities in Texas are owned by government entities such as cities and counties; the rest are owned by corporations and other types of privately held companies.

Landfills

In 2016, of the 195 active landfills, 128 (66%) were publicly owned. Publicly owned facilities disposed of 36% of the state's reported waste disposal and accounted for 43% of the state's total remaining capacity. Approximately 52% of the publicly owned landfills were arid-exempt facilities with limited waste acceptance rates.

Processing Facilities

In 2016, of the 175 active Type V processing and composting facilities, 82 were publicly owned. Of the 27 active Type IX facilities recovering landfill gas for beneficial use, 23 were privately owned.

Waste Information

Waste Managed by MSW Facilities

Municipal solid waste

The Texas definition of MSW in 30 TAC, Chapter 330 (Municipal Solid Waste), Subchapter A (General Information), is “*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.*”

The Texas definition of MSW is more encompassing than the definition used by the U.S. Environmental Protection Agency (USEPA) and some states. The Texas definition includes municipal wastewater treatment sludges and C&D waste, whereas the USEPA definition does not. Therefore, the Texas per capita disposal rate may be higher than those of other states because of the broader range of materials counted as MSW in Texas.

In Texas, wastes are classified first by their source (the generator of a waste), then the constituents in or properties of the waste. Retailers, repair services, and the public are municipal generators; manufacturers are industrial generators.

Nonhazardous industrial waste

Industrial solid waste is defined and regulated under 30 TAC, Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste). Industrial and municipal wastes may be classified as hazardous or nonhazardous. MSW facilities may not accept regulated hazardous waste. However, in certain circumstances, MSW facilities may accept *nonhazardous* industrial solid wastes. Nonhazardous industrial solid wastes are defined by classes.

- **Class 1:** Industrial solid 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 nonhazardous industrial wastes at MSW landfills. An example of Class 1 waste could be municipal wastewater treatment plant sludge or 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.

Most MSW facilities may accept Class 2 and Class 3 nonhazardous industrial solid waste. MSW landfills with dedicated Class 1 cells, which have more protective design requirements than MSW cells, may accept Class 1 nonhazardous industrial waste.

The Texas classification of Class 1 nonhazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste. Waste classified as hazardous cannot be made nonhazardous by dilution.

Disposal Information

Waste types

In 2016, municipal waste accounted for approximately 65% of the total waste disposed at MSW landfills; construction or demolition waste, the second largest waste type, accounted for approximately 20%. The types and estimated amounts of waste disposed in Texas MSW landfills in 2016 are illustrated in Figure 2 and Table 3. Waste types listed in Table 3 are described in the *MSW Waste and Material Type Descriptions* section of this report.

Waste sources

In 2016, less than 1% of waste disposed in the state's MSW landfills was generated from outside the state. Two landfills accepted waste from Mexico, representing a total of 2,155 tons. Eight landfills accepted waste imported from other states, including Arkansas, Louisiana, New Mexico, and Oklahoma, representing a total of 181,472 tons. There is no requirement for reporting the amount of MSW exported out of Texas.

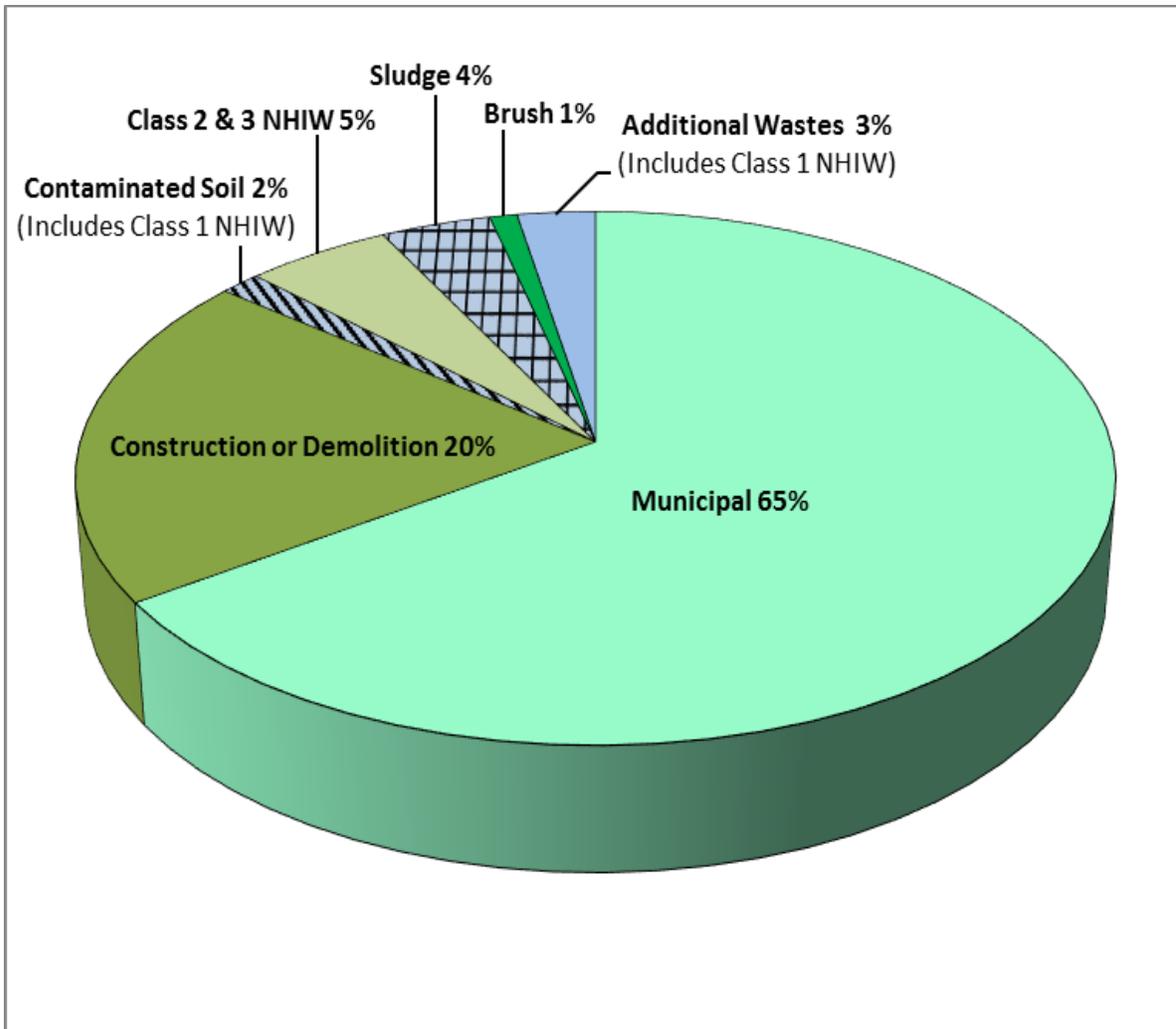


Figure 2. Types and Amounts of Waste Disposed in MSW Landfills in 2016

Table 3. Types and Amounts of Waste Disposed in MSW Landfills in 2016

Waste Type	Number of Landfills Accepting Waste Type	Tons Disposed	Percent of Total Tons Disposed
Municipal	148	22,714,397	65.40
Brush	65	336,230	0.97
Construction or Demolition	157	7,065,530	20.34
Litter	13	6,342	0.02
Class 1 Nonhazardous Industrial Waste (NHIW)	18	521,780	1.50
Classes 2 and 3 NHIW	63	1,796,675	5.17
Incinerator ash	6	9,691	0.03
Treated Medical waste	17	45,091	0.13
Municipal Hazardous Waste from Conditionally Exempt Small Quantity Generators (Municipal CESQG)	2	1,202	0.00
Regulated Asbestos-Containing Material (RACM)	30	38,643	0.11
Non-RACM	43	48,106	0.14
Dead animals	81	18,296	0.05
Sludge	90	1,359,833	3.92
Grease trap waste	12	10,068	0.03
Grit trap waste	16	5,705	0.02
Septage	5	94,282	0.27
Contaminated soil	48	497,143	1.43
Tires (only tires that have been split, quartered, or shredded may be disposed in a landfill)	31	47,588	0.14
Pesticides	0	0	0.00
Used oil filter	0	0	0.00
Other	26	115,649	0.33
Total	Not Applicable	34,732,251	100

Landfill Capacity Information

Per capita disposal rate

In 2016, approximately 34.73 million tons of waste was disposed in Texas MSW landfills. Using the 2016 state population estimate of 27,862,596, the average disposal rate in Texas was 6.83 pounds per person per day, which is slightly above the 2015 rate of 6.67 pounds. During this period, the state's population increased 1.4%. Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2016*, available at www.census.gov/data/tables/2016/demo/popest/counties-total.html.

As discussed in the *Waste Information* section of this report, the Texas definition of MSW includes C&D waste and municipal wastewater treatment plant sludge. To provide a more complete representation of the state's remaining MSW landfill capacity, the Texas per capita disposal rate calculation includes all MSW wastes and industrial wastes that were disposed in the state's MSW landfills.

If the Texas had used the EPA definition of MSW for 2016, the average disposal rate would have been approximately 4.72 pounds per person per day.

Figure 3 displays a graphic representation of disposal amounts and average per capita disposal rates over time. For more detailed information, please see Table 6. *Historical Disposal and Capacity Data for Texas MSW Landfills*.

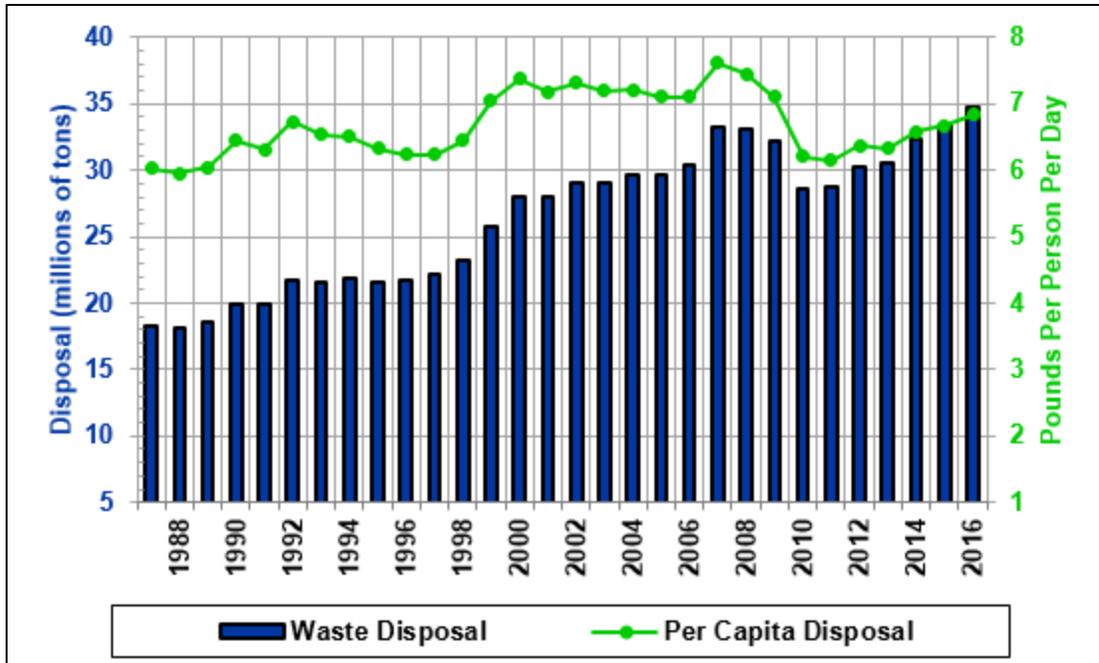


Figure 3. Total Tons and Per Capita Rate for MSW Disposal

Landfill capacity

The total remaining MSW landfill capacity in the state at the end of 2016 was 2.81 billion cubic yards. Based on reported compaction rates, this volume would hold 1.93 billion tons of waste and serve for 56 years.

The remaining capacity for all active MSW landfills by facility type is summarized in Table 4. The analyses in this summary assume that the 2016 disposal rate of 34.73 million tons will continue each year, that no new landfill expansions or new permits will be issued, and that the 2016 population and disposal amounts will remain constant. Remaining capacity is not applicable to monofills, which are authorized through a renewable five-year permit by rule.

Table 4. Disposal Amounts and Remaining Capacity by Facility Type in 2016

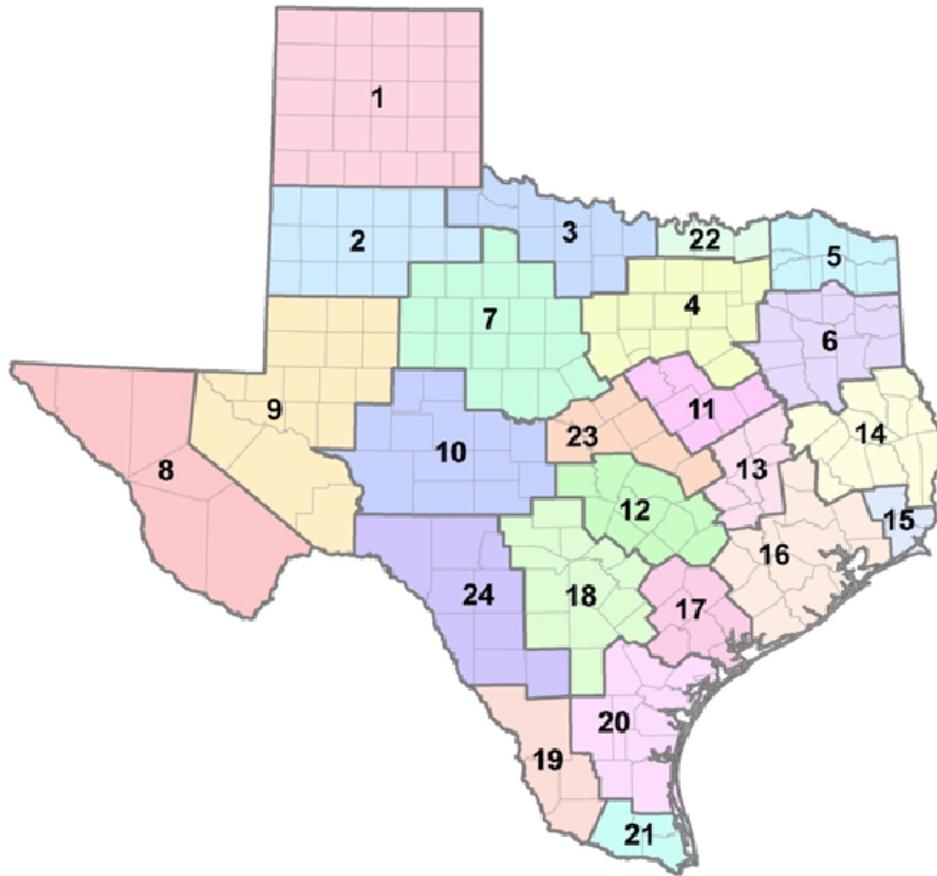
Facility Type	Number of Landfills	Amount Disposed (tons)	Remaining Capacity (tons)	Remaining Capacity (Years)
I	98	30,900,144	1,833,911,500	59
IV	22	3,478,178	78,904,054	23
IAE	31	163,290	8,527,388	52
IVAE	20	32,063	2,881,146	90
IAE and IVAE	18	155,372	8,363,842	54
Monofill	6	3,204	135,900	Not Applicable
Totals	195	34,732,251	1,932,723,830	56

Growth and attrition

According to submitted data, statewide capacity increased in 2016. The resulting net capacity increased by approximately 66.9 million tons (roughly 24.1 million cubic yards) or 3.6% from the statewide 2015 capacity.

Statewide distribution

In Texas, there are 24 Regional Planning Commissions, also known as Councils of Governments (COGs) that are responsible under Texas Health and Safety Code, Section 363.0615 for MSW management planning on a regional basis (Figure 4). Although remaining capacity was not evenly distributed, the state appeared to have an adequate reserve of MSW landfill capacity in 2016 (Table 5). The Central Texas COG (CTCOG 23) had the least amount of remaining capacity with 16 years. The most significant increase in the number of remaining years for landfill capacity was for the West Central Texas Council of Governments region (WCTCOG 7) where remaining capacity increased from 155 years to 203 years. The change for the WCTCOG 7 may be a result of the reported decrease in the amount of waste disposed (from 561,349 tons in 2015, to 449,698 tons in 2016) and an apparent increase in compaction efficiency at the Abilene Type I landfill (MSW Permit No. 1469A).



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

Figure 4. Texas Councils of Governments

Landfill Capacity Information

Table 5. Analysis of MSW Landfill Disposal by Texas COGs for 2016

COG	Landfill Count	Percent of Total Landfill Count	Tons Disposed	Percent of Total Tons Disposed in State	Population in COG Region	Pounds Disposed Per Person Per Day	Remaining Capacity in COG Region, in Tons	Percent of Remaining Capacity in State	Remaining Capacity in COG Region, in Years
1 PRPC	21	10.77	581,052	1.67	437,317	7.28	42,561,828	2.20	73
2 SPAG	20	10.26	542,891	1.56	432,995	6.87	79,292,829	4.10	146
3 NRPC	3	1.54	302,381	0.87	220,124	7.53	52,926,164	2.74	175
4 NCTCOG	21	10.77	10,590,049	30.49	7,351,558	7.89	382,599,998	19.80	36
5 ATCOG	3	1.54	410,527	1.18	283,640	7.93	55,552,367	2.87	135
6 ETCOG	4	2.05	652,411	1.88	854,975	4.18	118,735,034	6.14	182
7 WCTCOG	12	6.15	449,698	1.29	330,597	7.45	91,421,795	4.73	203
8 RGCOG	8	4.10	460,279	1.33	862,527	2.92	55,134,583	2.85	120
9 PBRPC	15	7.69	684,484	1.97	475,566	7.89	39,581,918	2.05	58
10 CVCOG	8	4.10	204,151	0.59	161,890	6.91	5,709,142	0.30	28
11 HOTCOG	4	2.05	769,531	2.22	361,473	11.67	49,880,511	2.58	65
12 CAPCOG	5	2.56	2,376,482	6.84	2,176,606	5.98	73,486,442	3.80	31
13 BVCOG	1	0.51	373,944	1.08	348,941	5.87	27,303,793	1.41	73
14 DETCOG	4	2.05	525,122	1.51	381,589	7.54	35,723,873	1.85	68
15 SETRPC	4	2.05	690,264	1.99	395,965	9.55	28,064,791	1.45	41
16 HGAC	26	13.33	8,971,386	25.83	6,943,895	7.08	338,926,565	17.54	38
17 GCRPC	1	0.51	148,414	0.43	198,368	4.10	5,024,080	0.26	34
18 AACOG	7	3.59	2,875,304	8.28	2,542,648	6.20	167,819,342	8.68	58
19 STDC	4	2.05	421,845	1.21	354,810	6.51	51,702,332	2.68	123
20 CBCOG	7	3.59	715,902	2.06	598,738	6.55	103,278,180	5.34	144
21 LRGVDC	5	2.56	1,220,605	3.51	1,293,788	5.17	97,650,682	5.05	80
22 TCOG	2	1.03	201,100	0.58	201,532	5.47	15,748,064	0.81	78
23 CTCOG	2	1.03	418,047	1.20	479,883	4.77	6,548,773	0.34	16
24 MRGDC	8	4.10	146,382	0.42	173,171	4.63	8,050,744	0.42	55
Totals	195	100	34,732,251	100	27,862,596	6.83 (average)	1,932,723,830	100	56 (average)

Historical Capacity Data for Texas MSW Landfills

Table 6. Historical Disposal and Capacity Data for Texas MSW Landfills

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal Rate (Pounds per Person per Day)	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
2014	32,371,574	26,956,958	6.58	198	2,867,269,225	1,939,340,177	60
2015	33,449,560	27,469,114	6.67	199	2,789,966,234	1,865,784,374	56
2016	34,732,251	27,862,596	6.83	195	2,814,101,889	1,932,723,830	56

Trends

Landfill closures

In 1987, there were 763 authorized MSW landfills in Texas accepting waste and by 1994, there were only 199 (Figure 5). The federal Resource Conservation and Recovery Act (RCRA) Subtitle D standards established in October 1991 required MSW landfills to upgrade designs, operating practices, and closure specifications; restricted the location of MSW landfills; and required MSW landfills to install liners and implement groundwater monitoring. The new federal requirements were a contributing factor in the closure of landfills across the state in the early 1990s.

Reserve capacity

Reserve capacity (expressed in terms of years) is the remaining capacity (expressed in terms of tons) divided by the waste disposal rate (tons disposed) for the current reporting year. From 1986 to the mid-1990s, the state's reserve capacity for disposal in MSW landfills was less than 22 years. Beginning in 2004, the capacity steadily increased with a maximum of 64 years reached in 2011. The current reserve capacity for disposal is approximately 56 years (Table 6 and Figure 5). Expansion in the available volume of permitted disposal capacity; improvements in compaction and diversion; and the state's economic activity are probable contributing factors affecting the reserve capacity trend. For example, the average compaction rate in 1986 was approximately 650 pounds of waste per cubic yard; in 2000 the average rate was approximately 1,000 pounds per cubic yard; and by 2016 the calculated average compaction rate was 1,117 pounds per cubic yard.

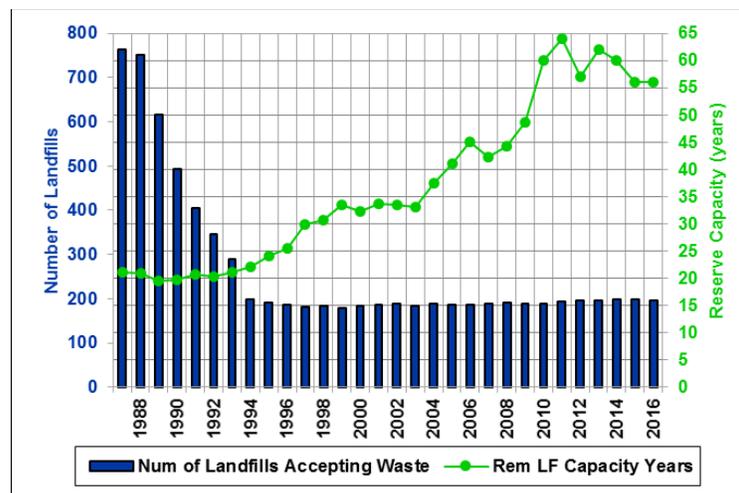


Figure 5. Number of MSW Landfills and Reserve Capacity

Landfill size

In addition to improvements in operations at MSW landfills, the size of landfills has continued to increase. In 1986, the statewide average landfill size was 50 acres with an average height of 13 feet. In 2016, the statewide average landfill size was 246 acres with an average height of 84 feet. Landfill height was calculated as the difference between the reported site permanent benchmark elevation and final cover elevation.

The breakdown of the permitted heights for MSW landfills in 2016 is presented in Table 7. 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 7. Permitted Heights for MSW Landfills in 2016 (excludes monofills)

Permitted Height	Number of Landfills	Percent of Landfills
<100 ft	118	62
100 ft – 200 ft	51	27
200 ft – 300 ft	18	10
>300 ft	2	1

Counties served

The 195 active MSW landfills in the state reported the number of counties they served in 2016 (Table 8). Service to more than one county was provided by 127 landfills (65%). The number of active landfills by county is shown in Table 9. Counties with a change in the number of landfills and monofills are indicated. Counties with monofills are also indicated.

Table 8. Number of Texas Counties Served by MSW Landfills in 2016

Number of Counties Served	Number of Landfills
1	68
2 – 5	58
6 – 10	49
11 – 15	7
16 – 20	9
>20	4

Table 9. Number of Active MSW Landfills by County in 2016

County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills
Anderson	0	Caldwell	0	Crockett	0	Franklin	0	Hays	0
Andrews	1	Calhoun	0	Crosby	0	Freestone	0	Hemphill	0
Angelina	1	Callahan	1 (monofill)	Culberson	0	Frio	0	Henderson	0
Aransas	0	Cameron	1	Dallam	1	Gaines	1	Hidalgo	4
Archer	0	Camp	0	Dallas	4	Galveston	3	Hill	1
Armstrong	1	Carson	1	Dawson	1	Garza	1	Hockley	2
Atascosa	0	Cass	0	Deaf Smith	1	Gillespie	1	Hood	0
Austin	0	Castro	1	Delta	0	Glasscock	1	Hopkins	0
Bailey	2	Chambers	2	Denton	4	Goliad	0	Houston	0
Bandera	0	Cherokee	1	DeWitt	0	Gonzales	0	Howard	1
Bastrop	0	Childress	1	Dickens	0	Gray	3	Hudspeth	2
Baylor	0	Clay	0	Dimmit	1	Grayson	2	Hunt	1
Bee	0	Cochran	1	Donley	0	Gregg	1	Hutchinson	0
Bell	1	Coke	0	Duval	1	Grimes	1	Irion	0 (decrease)
Bexar	2	Coleman	1 (monofill)	Eastland	0	Guadalupe	1	Jack	0
Blanco	0	Collin	1	Ector	1	Hale	1	Jackson	0
Borden	0	Collingsworth	1	Edwards	0	Hall	1	Jasper	0
Bosque	0	Colorado	1	El Paso	3	Hamilton	0	Jeff Davis	0
Bowie	1	Comal	1	Ellis	3	Hansford	1	Jefferson	3
Brazoria	2	Comanche	0	Erath	1	Hardeman	1 (monofill)	Jim Hogg	0
Brazos	0	Concho	0	Falls	0	Hardin	1	Jim Wells	1
Brewster	2	Cooke	0	Fannin	0	Harris	14	Johnson	2
Briscoe	0	Coryell	1	Fayette	0	Harrison	0	Jones	3 (monofill)
Brooks	1	Cottle	0 (decrease)	Fisher	0	Hartley	0	Karnes	0
Brown	1	Crane	1	Floyd	1	Haskell	2 (monofill)	Kaufman	0
Burleson	0			Foard	0				
Burnet	0			Fort Bend	3				

Trends

County	Number of Landfills
Kendall	0
Kenedy	0
Kent	0
Kerr	1
Kimble	1
King	0
Kinney	1
Kleberg	1
Knox	0
La Salle	0
Lamar	1
Lamb	4
Lampasas	0
Lavaca	0
Lee	0
Leon	0
Liberty	0
Limestone	1
Lipscomb	1
Live Oak	0
Llano	0
Loving	0
Lubbock	3
Lynn	1
Madison	0

County	Number of Landfills
Marion	0
Martin	1
Mason	1
Matagorda	0
Maverick	2
McCulloch	1
McLennan	2
McMullen	1
Medina	0
Menard	1
Midland	1
Milam	0
Mills	0
Mitchell	1
Montague	0
Montgomery	1
Moore	2
Morris	0
Motley	1
Nacogdoches	1
Navarro	1
Newton	1
Nolan	1
Nueces	3
Ochiltree	1

County	Number of Landfills
Oldham	1
Orange	0
Palo Pinto	0
Panola	0
Parker	1
Parmer	0
Pecos	1
Polk	1
Potter	1
Presidio	1
Rains	0
Randall	1
Reagan	1
Real	0
Red River	0
Reeves	1
Refugio	0
Roberts	0
Robertson	0
Rockwall	0
Runnels	1 (monofill)
Rusk	1
Sabine	0
San Augustine	0
San Jacinto	0

County	Number of Landfills
San Patricio	0
San Saba	0
Schleicher	2
Scurry	1
Shackelford	0
Shelby	0
Sherman	0
Smith	1
Somervell	0
Starr	1
Stephens	0 (decrease)
Sterling	0
Stonewall	0
Sutton	0
Swisher	1
Tarrant	3
Taylor	0
Terrell	1
Terry	2
Throckmorton	0
Titus	1
Tom Green	1
Travis	4
Trinity	0
Tyler	0

County	Number of Landfills
Upshur	0
Upton	2
Uvalde	1 (decrease)
Val Verde	1
Van Zandt	0
Victoria	1
Walker	0
Waller	0
Ward	1
Washington	0
Webb	2
Wharton	0
Wheeler	1
Wichita	2
Wilbarger	0
Willacy	0
Williamson	1
Wilson	0
Winkler	0
Wise	0
Wood	0
Yoakum	1
Young	0
Zapata	1
Zavala	2

Materials Diverted from Disposal at MSW Landfills

Overview

Public and private programs for reducing, reusing, and recycling assist in preserving disposal capacity in MSW landfills. Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, electronics, scrap tires, organic materials and numerous other materials are diverted from being disposed of at landfills every day. Information about recycling initiatives for individuals, businesses, and local governments can be found on TCEQ's website at www.tceq.texas.gov/p2/recycle/recycling.html. Information about how Texans can get involved in protecting the state's resources, including ways to reduce the amount of waste they generate, can be found on the *Take Care of Texas* website at www.takecareoftexas.org.

In 2015, the Texas Legislature directed TCEQ to conduct a study on the current and potential economic impacts of recycling. According to the study, approximately 9.2 million tons of municipal solid waste designated material were recycled in Texas in 2015 (the reporting period for the study). The overall impact of recycling MSW on the Texas economy exceeded \$3.3 billion. The results of the study were published in *The Study on the Economic Impacts of Recycling*, which can be found at www.tceq.texas.gov/p2/recycle/study-on-the-economic-impacts-of-recycling.

Electronics

Television (TV) recyclers are required to report the total weight or volume of covered television equipment received, recycled, and disposed of in the preceding calendar year (CY) on an annual basis. In CY 2016 (January 1, 2016, through December 31, 2016), approximately 18.7 million pounds were received, 17.1 million pounds were recycled, and zero (0.00) pounds were disposed of, as reported by 10 active TV recyclers.

TV and computer equipment manufacturers are also required to report the amount of equipment collected, recycled, and reused. Information about the TV and computer recycling programs, including amounts reported, can be found on the TCEQ's website at TexasRecyclesTVs.org and TexasRecyclesComputers.org, respectively.

Scrap Tires

Scrap tires can be a valuable commodity when properly managed and used to produce various products such as crumb rubber, mulch, and thermal insulators; utilized for civil engineering projects; or processed as a fuel source. In Texas, owners or operators of facilities that transport or process used and scrap tires are required to submit an annual report for the preceding calendar year (CY). In CY 2016, approximately 34.4 million used and scrap tires were reported as managed by transporters, storage sites, and scrap tire processing facilities.

Information about the scrap tire management program, including the CY 2016 annual report summary, can be found on the TCEQ's website at www.tceq.texas.gov/tires/tires-reporting.

Other Diverted Materials

Some waste accepted at permitted and registered MSW facilities is diverted from the solid waste stream as recyclable materials. In 2016, over 2.2 million tons of materials were reported as diverted from MSW facilities for recycling or reuse: 1,200,034 tons diverted at landfills, as reported by 103 landfills; and 1,018,693 tons diverted at processing facilities, as reported by 75 facilities. Transfer stations represented most of the processing facilities diverting recyclable materials.

The various material streams and estimated amounts reported as diverted by MSW facilities in 2016 are presented in Table 10. The yard trimmings or brush and the paper or cardboard materials categories represented the largest quantities of materials diverted. The category of "Unclassified Materials" in Table 10 consisted mainly of residential comingled recyclables, but also included items such as batteries, food waste, and miscellaneous building materials. It is noted that data in the table represent only the amount of recyclable material leaving an MSW disposal or processing facility and may or may not be included in the numbers reported by recycling facilities, such as computer recyclers, TV recyclers, and scrap tire processors. Descriptions for several of the material types listed in Table 10 are provided in the *MSW Waste and Material Type Descriptions* section of this report.

Materials Diverted from Disposal at MSW Landfills

Table 10. Types and Amounts of Diverted Materials in 2016

Material Type	Tons Diverted	% of Total Tons Diverted
Yard Trimmings or Brush	811,336	36.57
Metal	34,040	1.53
Glass	37,748	1.70
Plastics	23,209	1.05
Construction or Demolition Material	243,733	10.99
Paper or Cardboard	801,095	36.11
Electronic Equipment	469	0.02
White Goods	1,361	0.06
Tires	4,874	0.22
Automotive	6	0.01
Shingles	522	0.02
Used Oil	496	0.02
Unclassified Materials	259,838	11.71
Total	2,218,727	100

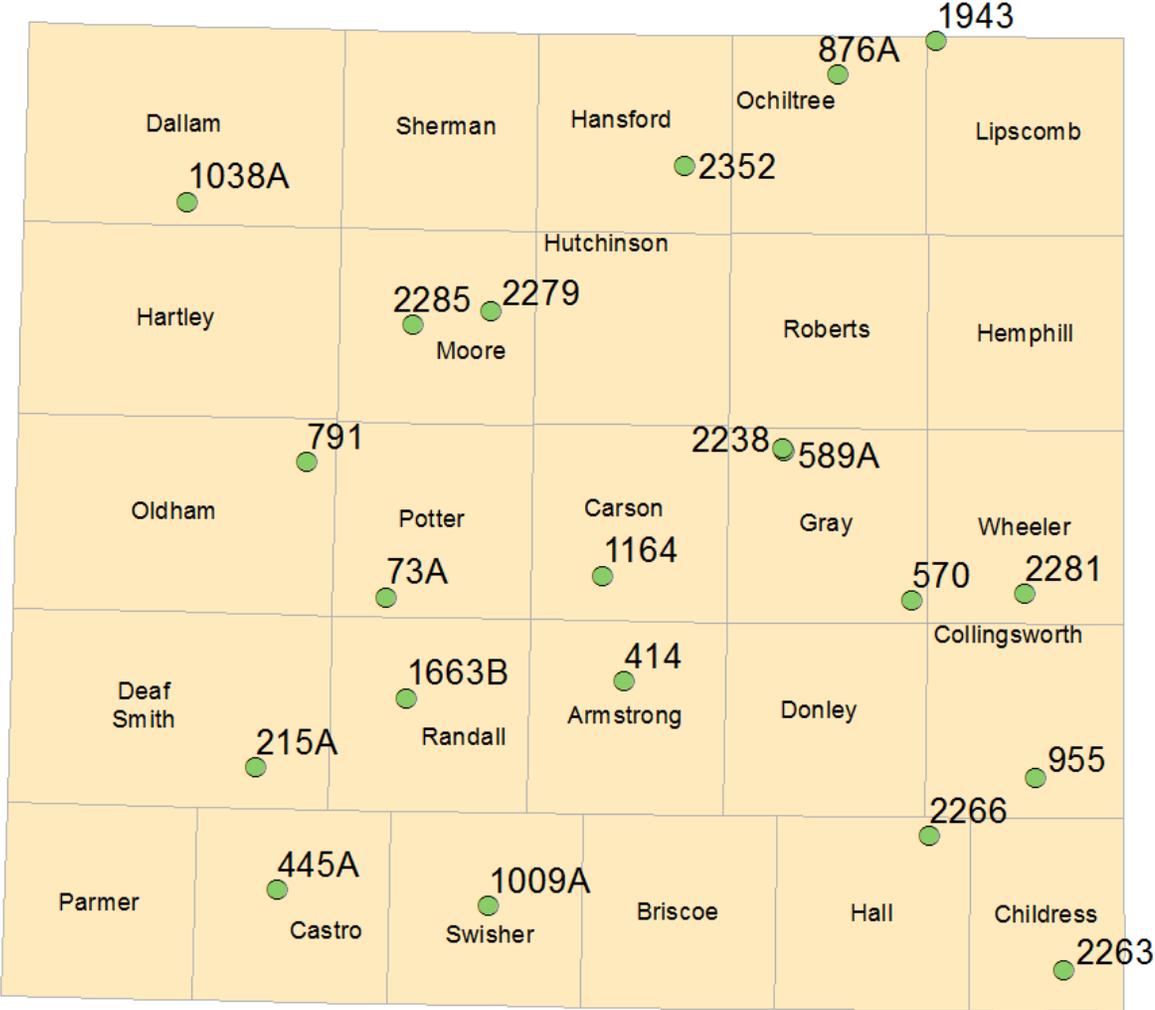
Facility Data for MSW Landfills

The maps and tables included in this section represent the active MSW landfill data reported for 2016. 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
Type	Facility types are identified by Arabic numbers with applicable abbreviations that are used in the TCEQ's database (e.g., 1AE). AE is abbreviation for arid exempt.
2016 Tons	Total tons landfilled in fiscal year 2016
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 (data provided in a facility's annual report that is an estimate based on the landfill's permitted volume for waste capacity and facility operations). This measure is not applicable to monofills, which are authorized through a renewable five-year permit by rule.

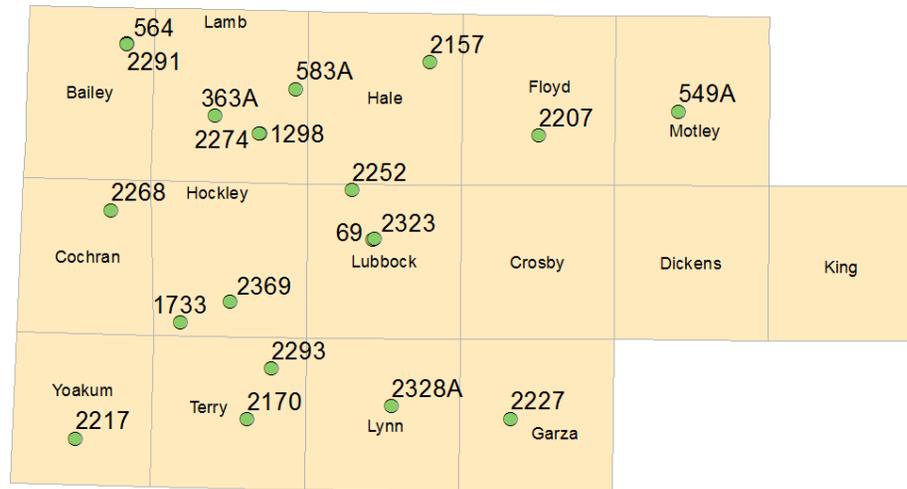
COG 1: Panhandle Regional Planning Commission—Landfill Locations



COG 1: Panhandle Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
1	414	Claude Armstrong County Landfill	Armstrong	4AE	2,148	214,829	500	53,707	25
1	1164	City of Panhandle Landfill	Carson	1AE	2,589	702,066	750	263,275	102
1	445A	City of Dimmitt Landfill	Castro	1AE	5,977	1,150,452	750	431,420	72
1	2263	City of Childress Landfill	Childress	1AE&4AE	3,278	2,361,732	800	944,693	120
1	955	City of Wellington Landfill	Collingsworth	1AE	3,401	475,721	800	190,288	55
1	1038A	City of Dalhart Landfill	Dallam	1AE&4AE	13,006	1,225,653	785	481,069	37
1	215A	City of Hereford Landfill	Deaf Smith	4AE	3,834	273,175	850	116,099	23
1	570	City of McLean Landfill	Gray	1AE	849	543,820	800	217,528	11
1	589A	City of Pampa Landfill	Gray	4AE	1,515	446,616	1000	223,308	147
1	2238	City of Pampa Landfill	Gray	1	56,028	8,590,273	1320	5,669,580	101
1	2266	City of Memphis Landfill	Hall	1AE	7,378	930,234	800	372,094	50
1	2352	City of Spearman Landfill	Hansford	1AE	5,056	918,658	850	390,430	2
1	1943	City of Booker Landfill	Lipscomb	1AE	1,715	435,650	850	185,151	53
1	2279	City of Dumas Landfill	Moore	1	15,920	8,155,320	1000	4,077,660	114
1	2285	City of Dumas Landfill	Moore	4AE	4,620	241,670	800	96,668	3
1	876A	Perryton Landfill	Ochiltree	1AE	6,850	1,330,364	890	592,012	87
1	791	Cal Farleys Boys Ranch Landfill	Oldham	4AE	500	124,500	400	24,900	45
1	73A	City of Amarillo Landfill	Potter	1	234,989	64,761,764	800	25,904,706	110
1	1663B	Southwest Landfill TX	Randall	1	200,475	2,631,847	1444	1,900,194	9
1	1009A	City of Tulia Landfill	Swisher	1AE&4AE	6,665	746,371	850	317,208	48
1	2281	City of Shamrock Landfill	Wheeler	1AE	4,259	274,595	800	109,838	26

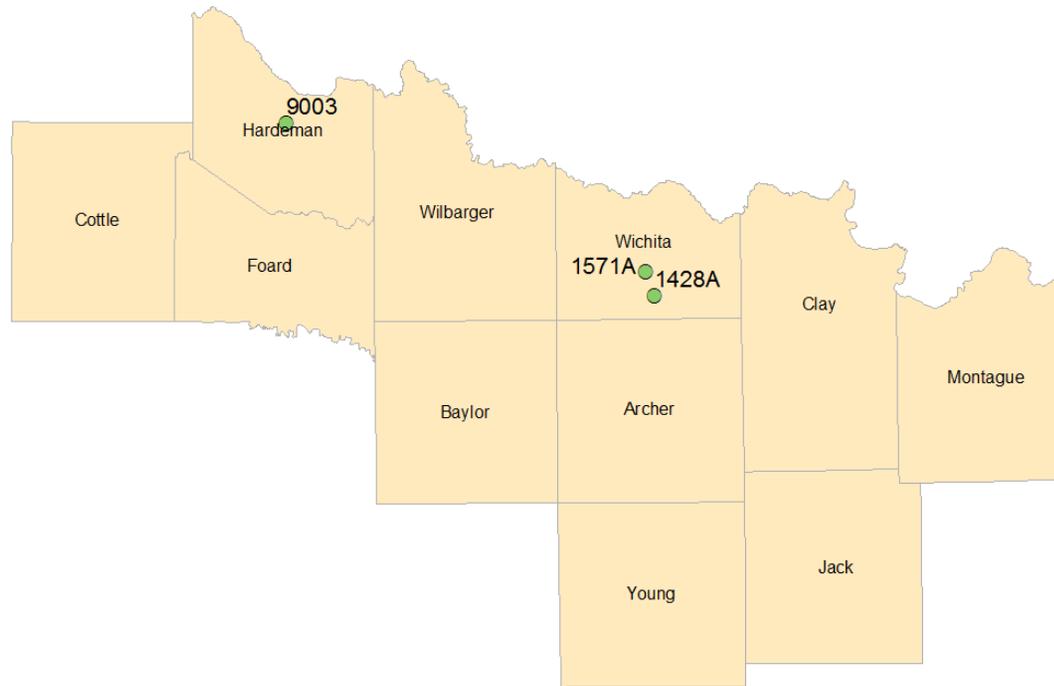
COG 2: South Plains Association of Governments—Landfill Locations



COG 2: South Plains Association of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
2	564	City of Muleshoe Landfill	Bailey	4AE	2,502	153,164	800	61,266	24
2	2291	City of Muleshoe Landfill	Bailey	1AE	7,287	431,182	800	172,473	23
2	2268	Morton Landfill	Cochran	4AE	113	804,348	400	160,870	99
2	2207	City of Floydada Landfill	Floyd	1AE&4AE	6,937	821,815	830	341,053	64
2	2227	City of Post Landfill	Garza	1AE&4AE	4,560	143,868	650	46,757	10
2	2157	City of Plainview Landfill	Hale	1	25,607	9,924,841	1024	5,081,519	198
2	1733	City of Sundown Landfill	Hockley	4AE	505	222,856	850	94,714	89
2	2369	City of Levelland Landfill	Hockley	1AE& 4AE	11,778	4,803,219	605	1,452,974	117
2	363A	City of Amherst Landfill	Lamb	4AE	87	50,053	400	10,011	146
2	583A	City of Olton Landfill	Lamb	1AE	8,380	804,584	666	267,926	32
2	1298	City of Littlefield Landfill	Lamb	4AE	814	282,950	1400	198,065	10
2	2274	Littlefield Municipal Landfill	Lamb	1AE&4AE	6,904	1,252,879	1400	877,015	96
2	69	City of Lubbock Landfill	Lubbock	1	35,996	489,963	1367	334,890	9
2	2252	West Texas Regional Disposal Facility	Lubbock	1	291,958	105,534,513	1238	65,325,864	224
2	2323	C & D Waste Landfill	Lubbock	4	91,133	2,625,484	666	874,286	29
2	2328A	City of Tahoka Landfill	Lynn	1AE	9,705	843,358	850	358,427	49
2	549A	City of Matador Landfill	Motley	1AE	3,413	476,102	968	230,433	68
2	2170	City of Brownfield Landfill	Terry	1	13,980	4,362,774	1014	2,211,926	159
2	2293	City of Meadow Landfill	Terry	1AE	11,682	1,081,069	800	432,428	32
2	2217	Yoakum County Landfill	Yoakum	1AE&4AE	9,550	1,899,831	800	759,932	80

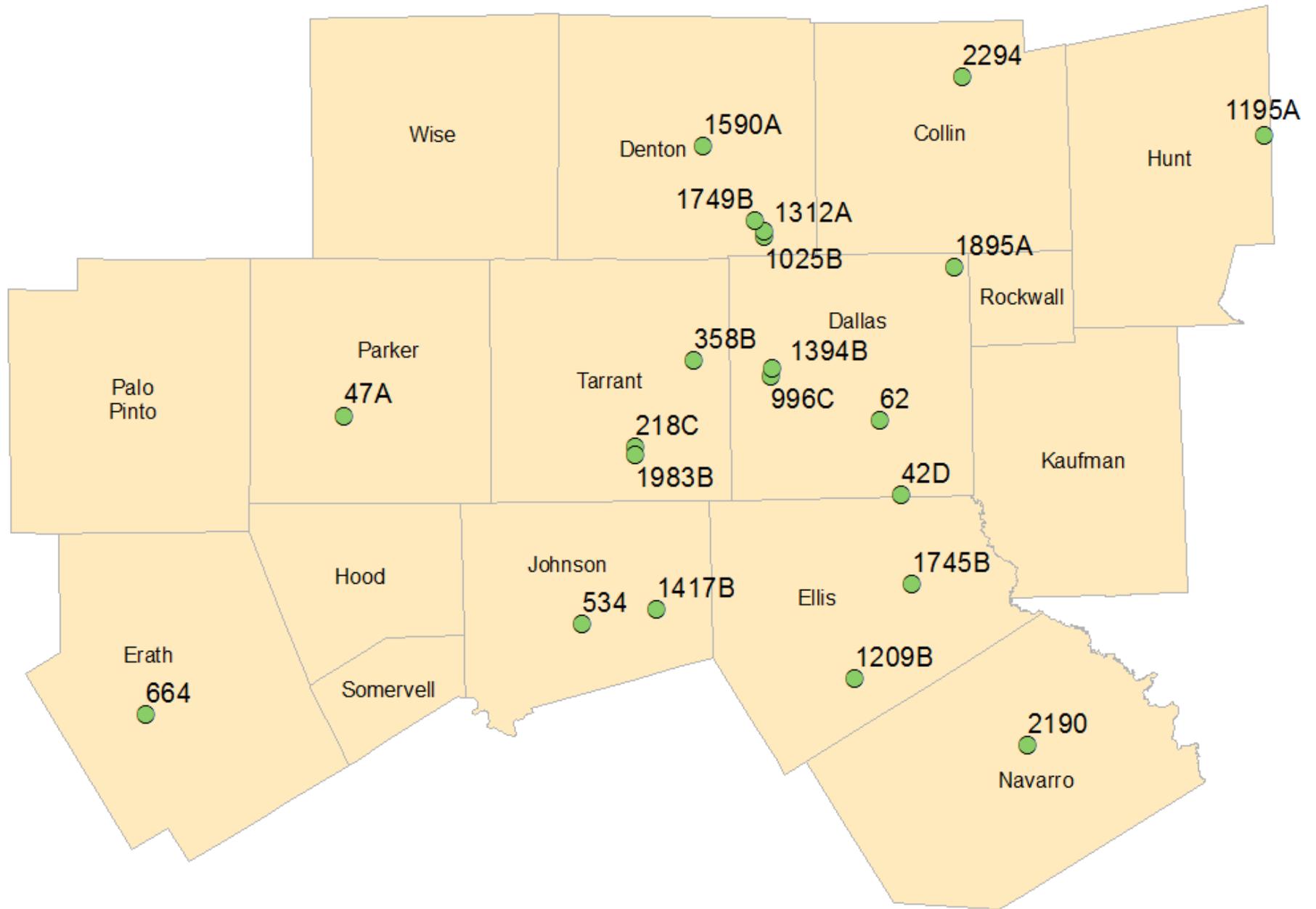
COG 3: Nortex Regional Planning Commission—Landfill Locations



COG 3: Nortex Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
3	9003	City of Quanah Landfill	Hardeman	MONOFILL	160	3,080	400	647	N/A
3	1428A	City of Wichita Falls Landfill	Wichita	1	136,646	68,538,459	1040	35,639,999	261
3	1571A	IESI Buffalo Creek Landfill	Wichita	1	165,575	28,809,196	1200	17,285,518	91

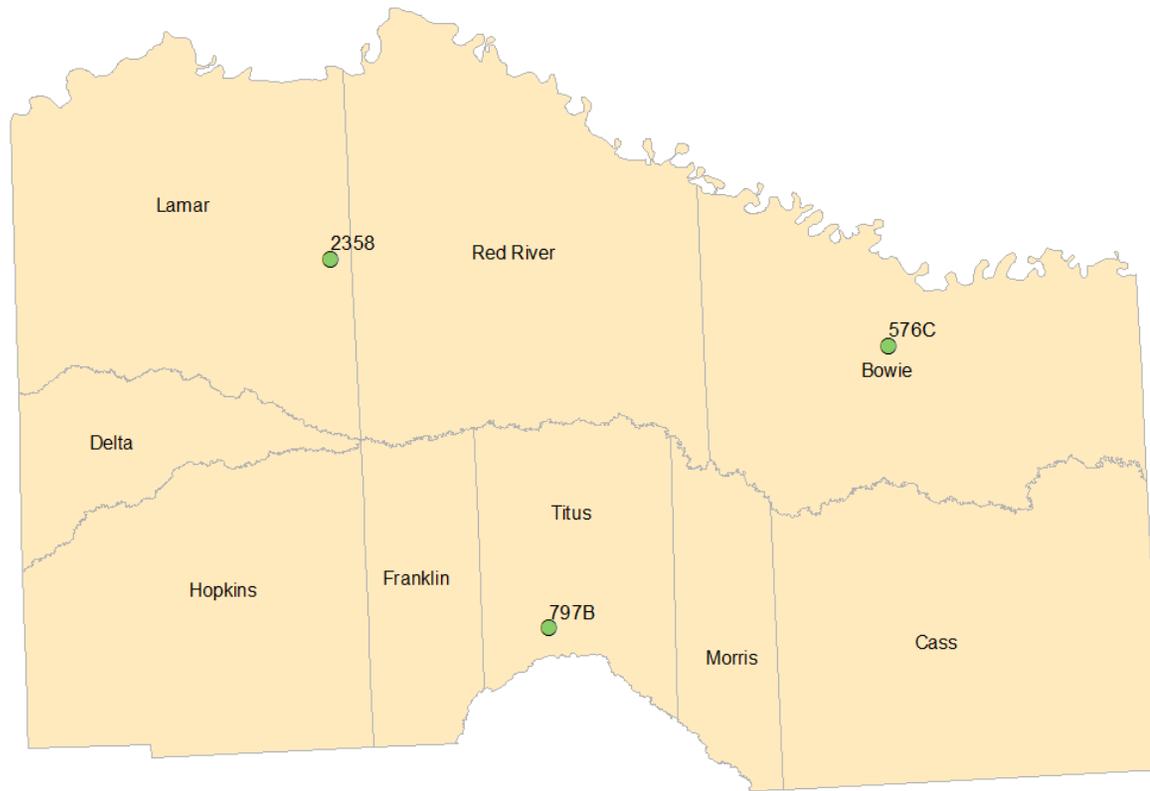
COG 4: North Central Texas Council of Governments—Landfill Locations



COG 4: North Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
4	2294	121 Regional Disposal Facility	Collin	1	938,184	118,963,816	1103	65,608,545	70
4	62	City of Dallas McCommas Bluff Landfill	Dallas	1	2,138,532	87,454,891	1648	72,062,830	35
4	996C	City of Grand Prairie Landfill	Dallas	1	198,532	11,603,200	1028	5,964,045	38
4	1394B	Hunter Ferrell Landfill	Dallas	1	192,059	13,684,631	1500	10,263,473	54
4	1895A	Charles M Hinton Jr Regional Landfill	Dallas	1	524,385	31,934,026	1441	23,008,466	46
4	1025B	DFW Recycling and Disposal Facility	Denton	1	1,587,428	9,070,287	1760	7,981,853	7
4	1312A	Camelot Landfill	Denton	1	267,353	5,464,420	1396	3,814,165	14
4	1590A	City of Denton Landfill	Denton	1	249,278	9,837,014	996	4,898,833	20
4	1749B	Lewisville Landfill	Denton	4	229,914	20,763,041	1819	18,883,986	82
4	42D	Waste Management Skyline Landfill	Ellis	1	1,198,456	46,091,052	1380	31,802,826	25
4	1209B	CSC Disposal and Landfill	Ellis	1	38	30,964,050	1737	26,892,277	100
4	1745B	Ellis County Landfill	Ellis	1	78,063	39,493,550	1362	26,895,108	345
4	664	City of Stephenville Landfill	Erath	4	18,472	848,350	1100	466,593	62
4	1195A	Republic Maloy Landfill	Hunt	1	121,191	5,536,956	1314	3,637,780	30
4	534	City of Cleburne Landfill	Johnson	1	717	19,297	1000	9,649	13
4	1417B	IESI Turkey Creek Landfill	Johnson	1	537,956	7,879,352	1600	6,303,482	12
4	2190	City of Corsicana Landfill	Navarro	1	97,951	23,292,030	1000	11,646,015	119
4	47A	IESI Weatherford Landfill	Parker	1	207,090	1,156,477	1250	722,798	3
4	218C	City of Fort Worth South East Landfill	Tarrant	1	636,783	24,160,473	1612	19,473,341	31
4	358B	City of Arlington Landfill	Tarrant	1	999,203	50,872,145	1591	40,468,791	34
4	1983B	IESI Fort Worth C and D Landfill	Tarrant	4	368,465	2,564,489	1400	1,795,142	6

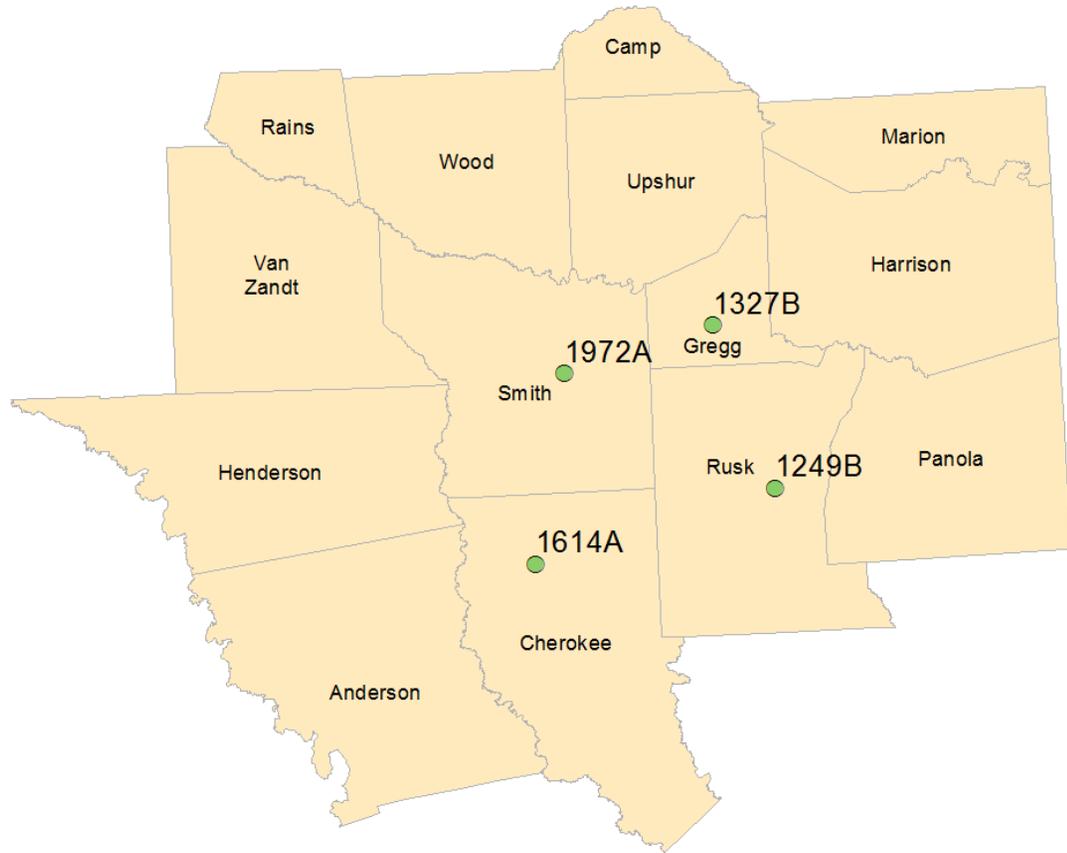
COG 5: Ark-Tex Council of Governments—Landfill Locations



COG 5: Ark-Tex Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
5	576C	New Boston Landfill	Bowie	1	130,763	10,924,367	1160	6,336,133	49
5	2358	Blossom Prairie Landfill	Lamar	1	201,500	75,745,618	826	31,282,940	155
5	797B	Pleasant Oaks Landfill	Titus	1	78,263	19,674,486	1823	17,933,294	229

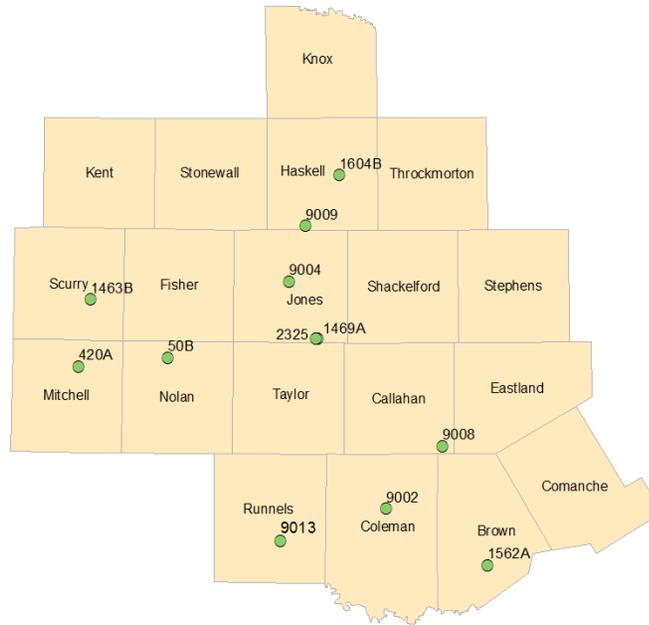
COG 6: East Texas Council of Governments—Landfill Locations



COG 6: East Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
6	1614A	Royal Oaks Landfill	Cherokee	1	85,674	2,298,122	1848	2,123,465	25
6	1327B	Pinehill Landfill	Gregg	1	184,896	15,422,491	1871	14,427,740	78
6	1249B	IESI East Texas Regional Landfill	Rusk	1	170,037	9,565,075	1500	7,173,806	45
6	1972A	Greenwood Farms Landfill	Smith	1	211,804	105,332,620	1804	95,010,023	449

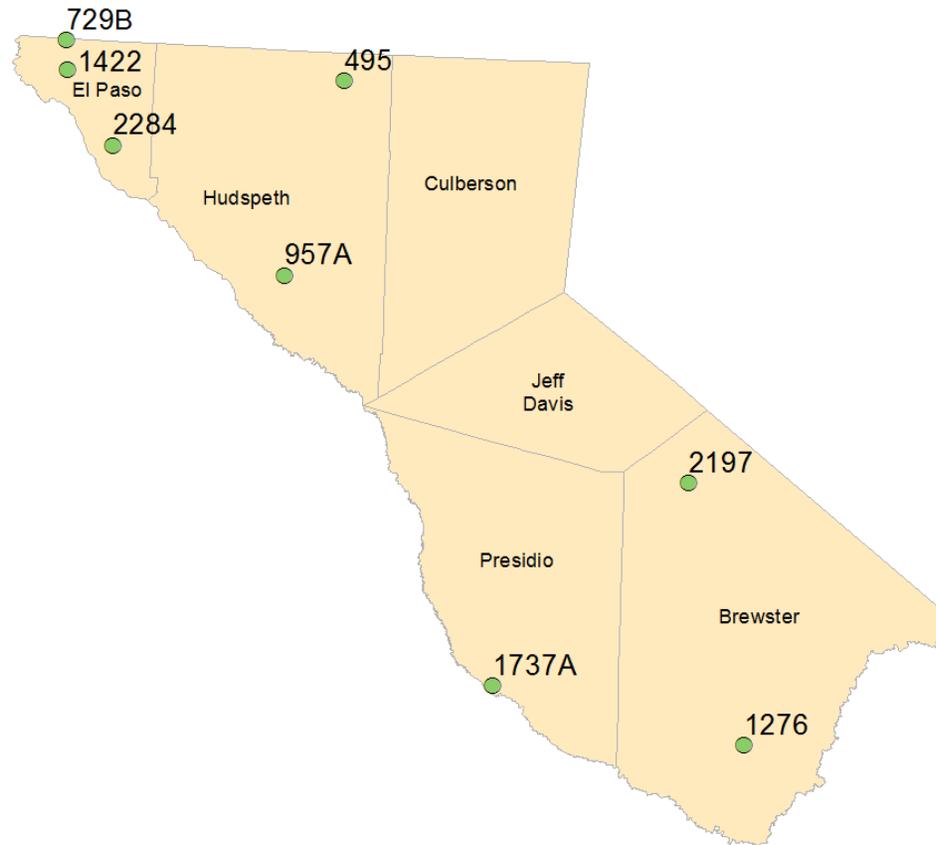
COG 7: West Central Texas Council of Governments—Landfill Locations



COG 7: West Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
7	1562A	Brownwood Regional Landfill	Brown	1	94,647	17,569,459	1100	9,663,202	84
7	9008	City of Cross Plains Abandoned Building Landfill	Callahan	MONOFILL	222	31,667	400	6,650	N/A
7	9002	City of Coleman Disposal Site	Coleman	MONOFILL	721	102,802	400	21,588	N/A
7	1604B	City of Haskell Landfill	Haskell	1AE	7,180	763,040	700	267,064	8
7	9009	City of Stamford Building Demolition Landfill	Haskell	MONOFILL	570	103,245	400	21,681	N/A
7	1469A	Abilene Landfill	Jones	1	160,155	88,807,579	1378	61,188,422	382
7	2325	Abilene Environmental Landfill	Jones	1	125,607	18,579,214	1600	14,863,371	59
7	9004	City of Anson Abandoned and Nuisance Building Disposal Site	Jones	MONOFILL	1,160	360,285	400	75,660	N/A
7	420A	Colorado City Municipal Landfill	Mitchell	1AE&4AE	12,168	220,886	700	77,310	6
7	50B	City of Sweetwater Landfill	Nolan	4AE	4,424	140,591	400	28,118	2
7	9013	City of Ballinger Abandoned Building Landfill	Runnels	MONOFILL	370	46,065	400	9,674	N/A
7	1463B	City of Snyder Landfill	Scurry	1	42,474	10,398,110	1000	5,199,055	122

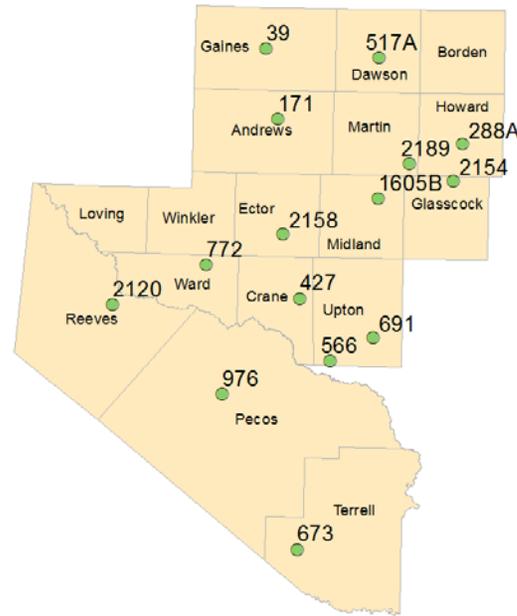
COG 8: Rio Grande Council of Governments—Landfill Locations



COG 8: Rio Grande Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
8	1276	Panther Junction Landfill	Brewster	1AE	576	96,482	750	36,181	8
8	2197	City of Alpine Landfill	Brewster	1AE	13,437	3,066,322	329	504,410	39
8	729B	City of El Paso Landfill	El Paso	1	7	63,469,328	1315	41,731,083	39
8	1422	Fort Bliss Landfill	El Paso	1	61	59,265	80	2,371	39
8	2284	Greater El Paso Landfill	El Paso	1	434,492	18,425,600	1315	12,114,832	23
8	495	Hudspeth County Dell City Landfill	Hudspeth	1AE&4AE	1,168	193,739	850	82,339	18
8	957A	Hudspeth County Sierra Blanca	Hudspeth	1AE&4AE	4,468	1,271,178	850	540,251	61
8	1737A	City of Presidio Landfill	Presidio	1AE	6,070	615,580	400	123,116	20

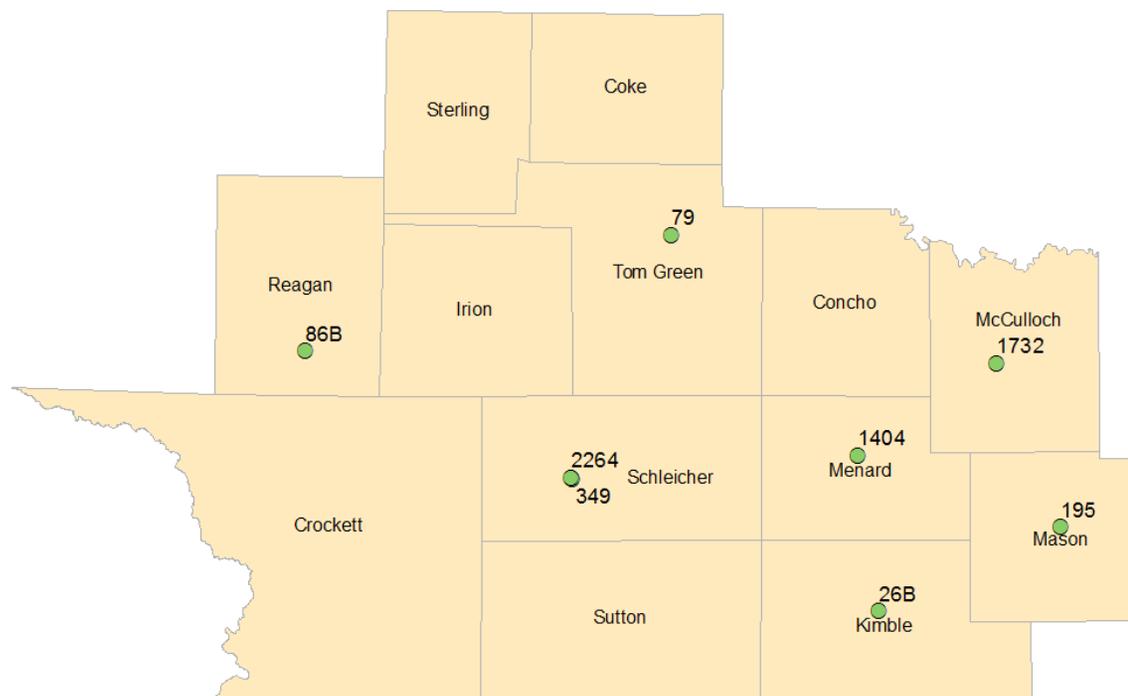
COG 9: Permian Basin Regional Planning Commission—Landfill Locations



COG 9: Permian Basin Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
9	171	City of Andrews Landfill	Andrews	1AE&4AE	11,232	900,909	489	220,272	20
9	427	City of Crane Landfill	Crane	1AE&4AE	3,982	334,645	700	117,126	29
9	517A	City of Lamesa Landfill	Dawson	1	14,262	1,439,218	1210	870,727	61
9	2158	Odessa Landfill	Ector	1	292,391	31,584,942	1219	19,251,022	66
9	39	City of Seminole Landfill	Gaines	1AE&4AE	14,335	1,575,302	750	590,738	50
9	2154	Glasscock County Landfill	Glasscock	1AE	765	47,709	250	5,964	8
9	288A	City of Big Spring Landfill	Howard	1	41,922	440,778	1444	318,242	8
9	2189	City of Stanton Landfill	Martin	1AE	6,090	528,475	1000	264,237	43
9	1605B	City of Midland Landfill	Midland	1	250,134	32,780,407	1018	16,685,227	67
9	976	City of Fort Stockton Landfill	Pecos	1AE&4AE	15,292	186,835	800	74,734	6
9	2120	City of Pecos Landfill	Reeves	1AE&4AE	18,444	726,124	850	308,603	24
9	673	Terrell County Landfill	Terrell	4AE	218	18,762	300	2,814	37
9	566	City of McCamey Landfill	Upton	4AE	3,366	1,217,318	750	456,494	6
9	691	Upton County Rankin Landfill	Upton	4AE	531	58,883	400	11,777	28
9	772	City of Monahans Landfill	Ward	1AE	11,520	950,449	850	403,941	30

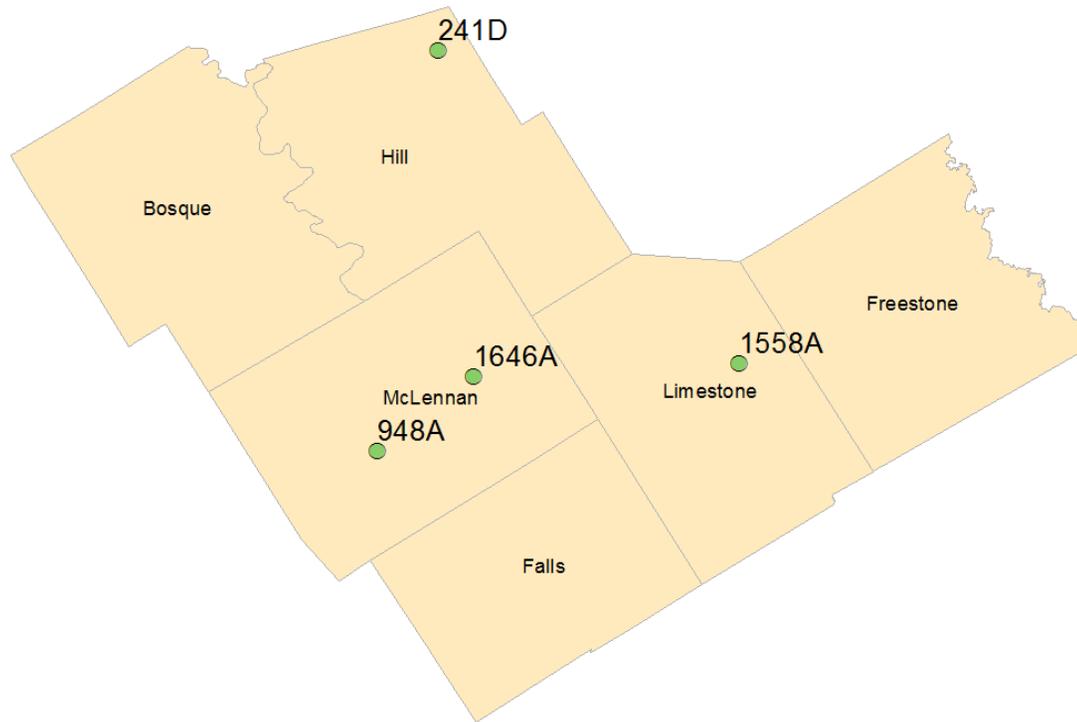
COG 10: Concho Valley Council of Governments—Landfill Locations



COG 10: Concho Valley Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
10	26B	City of Junction Landfill	Kimble	4AE	1,200	596,708	1000	298,354	201
10	195	City of Mason Landfill	Mason	1AE	2,490	67,504	1000	33,752	6
10	1732	City of Brady Landfill	McCulloch	1AE&4AE	9,422	2,201,515	900	990,682	40
10	1404	City of Menard Landfill	Menard	4AE	25	11,886	381	2,264	38
10	86B	City of Big Lake Landfill	Reagan	1AE	4,763	10,917	740	4,039	83
10	349	City of Eldorado Landfill	Schleicher	4AE	1,494	550,755	2000	550,755	70
10	2264	City of Eldorado Landfill	Schleicher	1AE	4,128	1,338,648	2000	1,338,648	50
10	79	San Angelo Landfill	Tom Green	1	180,629	3,852,510	1293	2,490,648	14

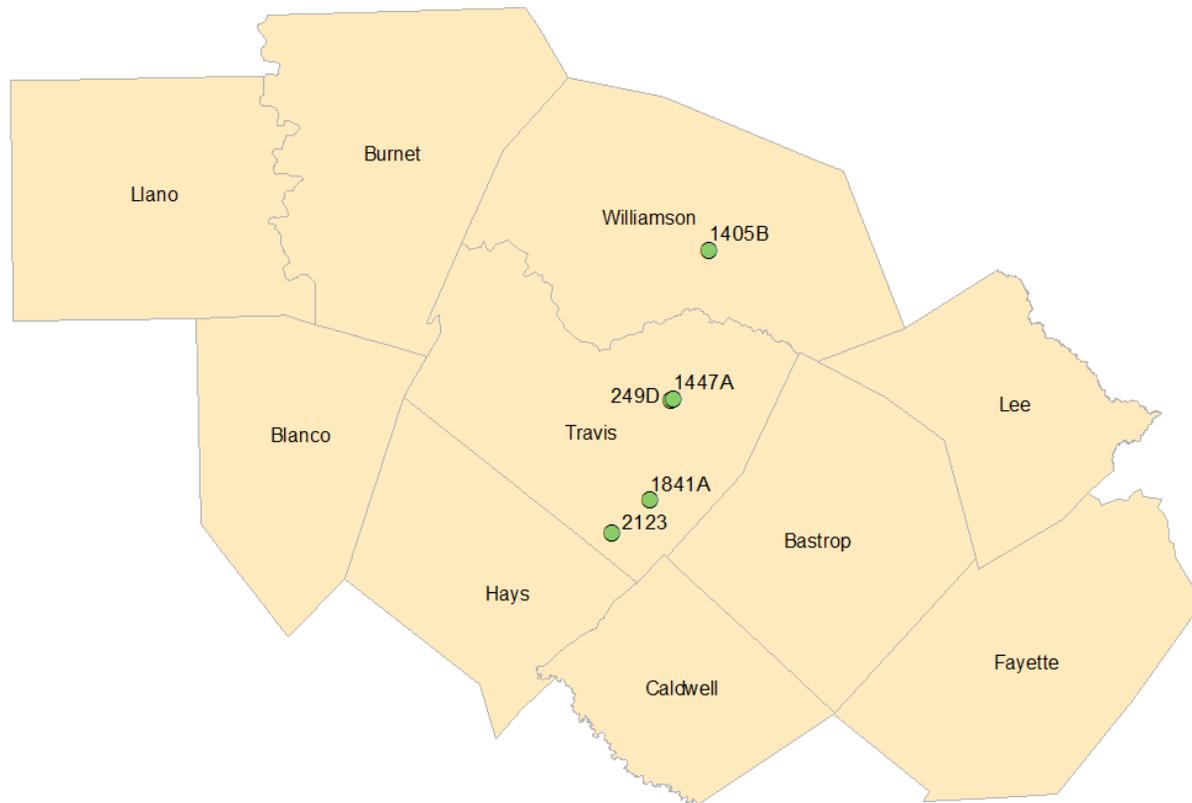
COG 11: Heart of Texas Council of Governments—Landfill Locations



COG 11: Heart of Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
11	241D	Itasca Landfill	Hill	1	365,833	48,107,006	1727	41,540,400	114
11	1558A	BFI Mexia Landfill	Limestone	1	31,345	7,690,197	1360	5,229,334	167
11	948A	City of Waco Landfill	McLennan	1	288,451	4,582,492	1053	2,412,682	8
11	1646A	Lacy-Lakeview Recycling and Disposal Facility	McLennan	1	83,902	997,278	1400	698,095	7

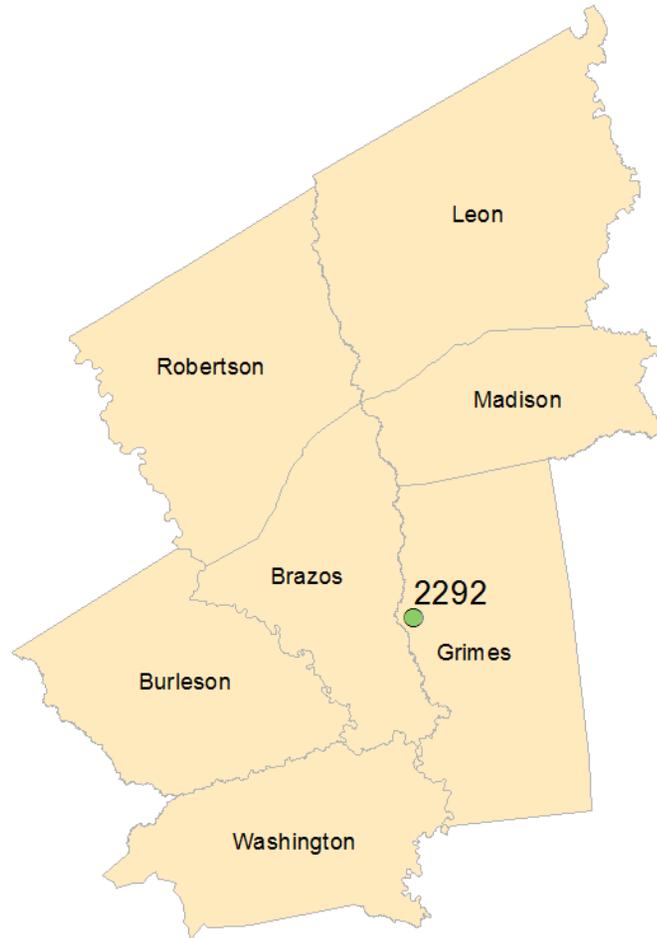
COG 12: Capital Area Council of Governments—Landfill Locations



COG 12: Capital Area Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
12	249D	Austin Community Recycling & Disposal Facility	Travis	1	881,157	11,630,778	1500	8,723,084	13
12	1447A	BFI Sunset Farms Landfill	Travis	1	115,669	5,286,740	1386	3,663,711	0
12	1841A	IESI Travis County Landfill	Travis	4	205,541	2,359,997	1200	1,415,998	7
12	2123	Texas Disposal Systems Landfill	Travis	1	811,685	21,612,344	1360	14,696,394	18
12	1405B	Williamson County Recycling and Disposal Facility	Williamson	1	362,430	59,983,006	1500	44,987,255	114

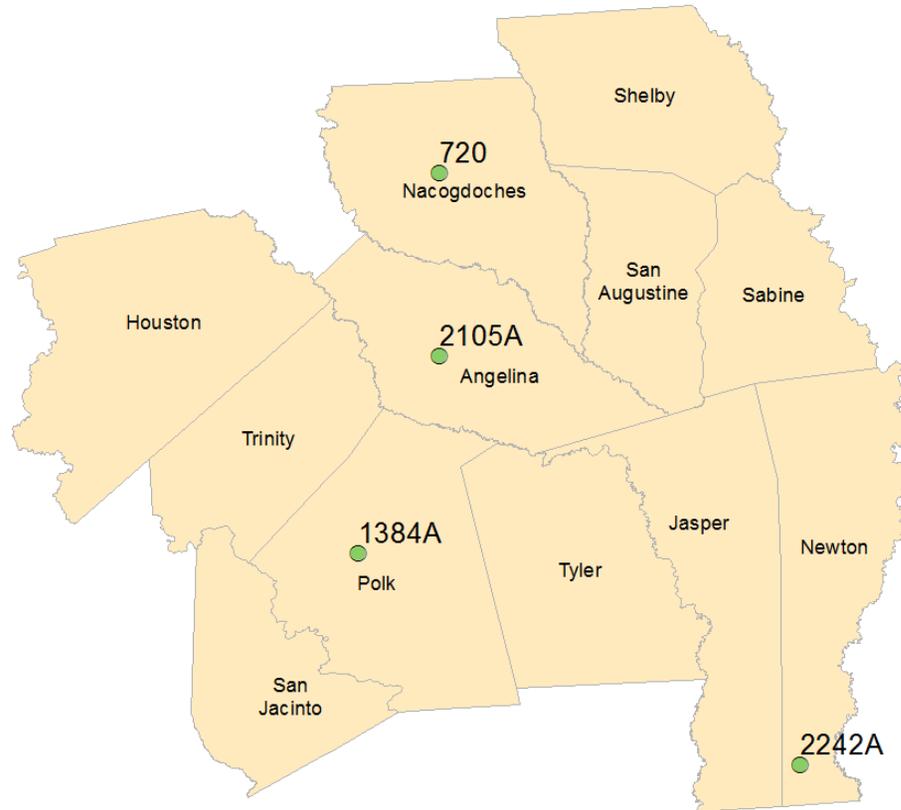
COG 13: Brazos Valley Council of Governments—Landfill Locations



COG 13: Brazos Valley Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
13	2292	Twin Oaks Landfill	Grimes	1	373,944	34,671,483	1575	27,303,793	75

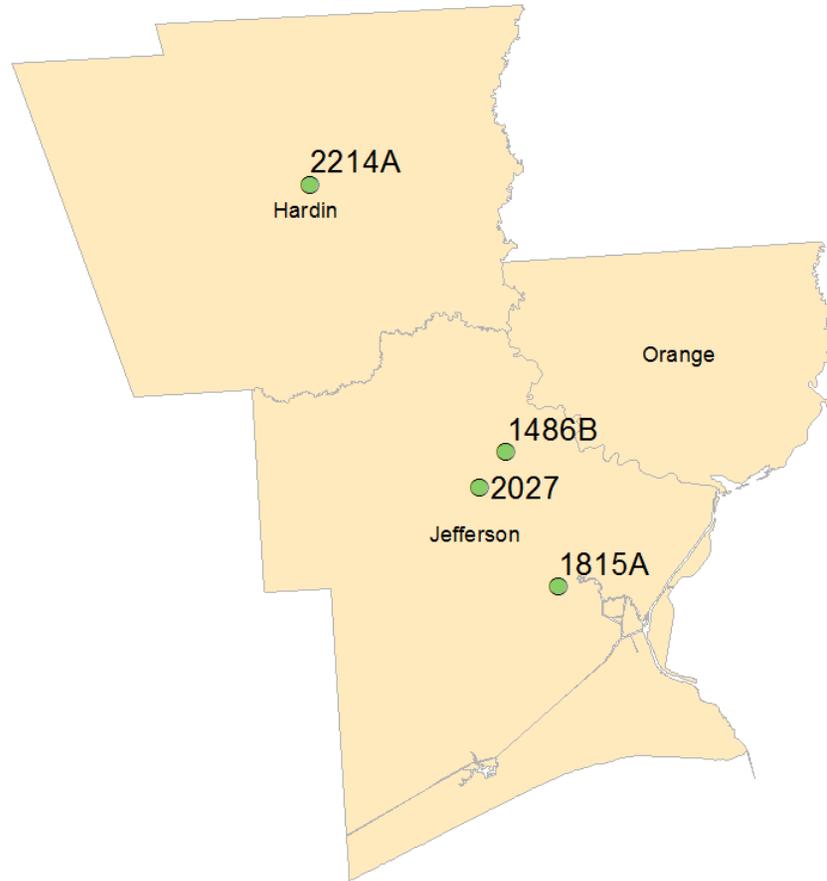
COG 14: Deep East Texas Council of Governments—Landfill Locations



COG 14: Deep East Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
14	2105A	Angelina County Waste Management Center	Angelina	1	100,172	3,553,380	1200	2,132,028	21
14	720	City of Nacogdoches Landfill	Nacogdoches	1	77,780	2,951,738	1150	1,697,249	34
14	2242A	Western Waste of Texas Newton Complex	Newton	1	232,887	42,207,920	1240	26,168,910	144
14	1384A	Polk County Landfill	Polk	1	114,283	8,013,557	1429	5,725,686	49

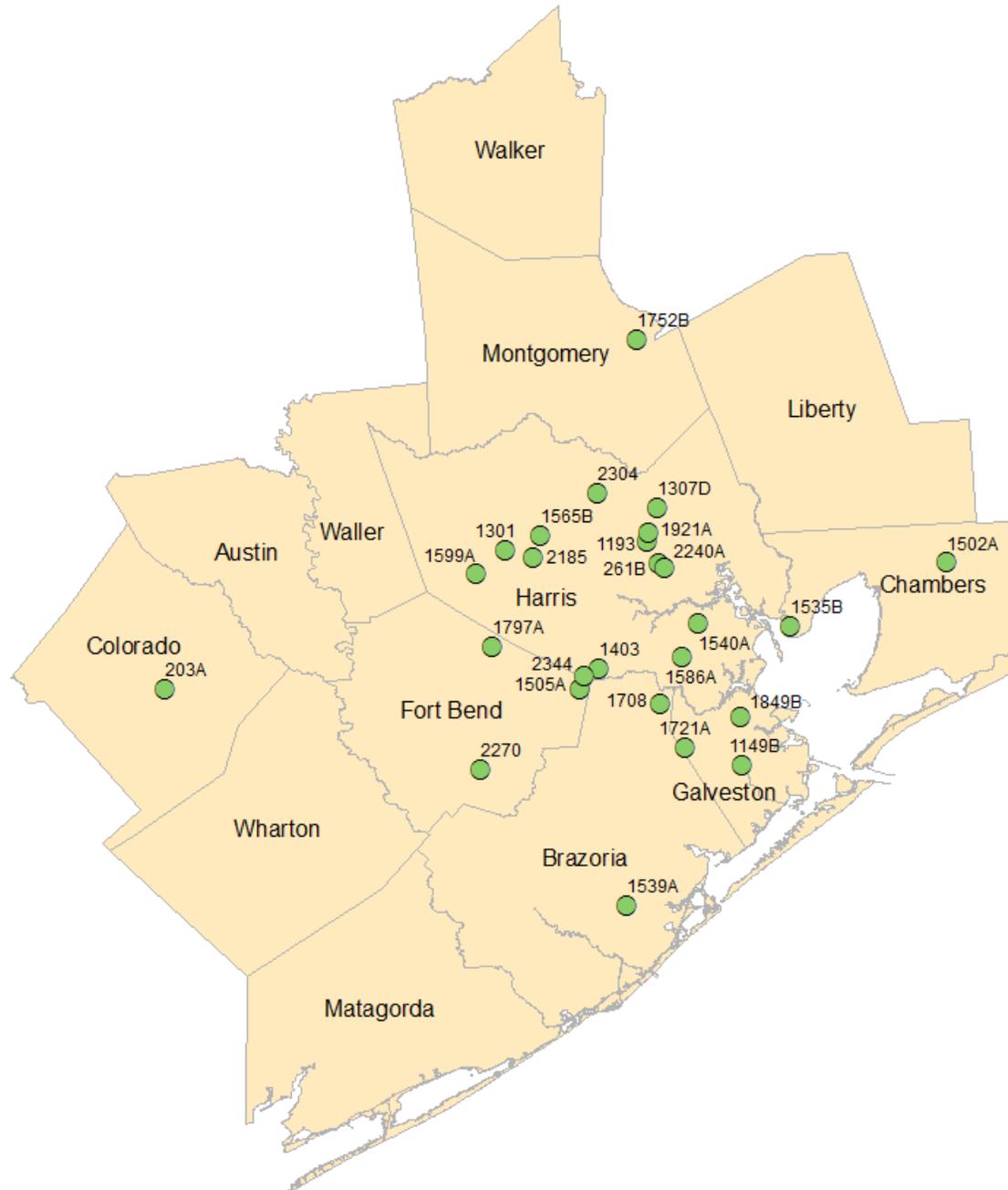
COG 15: South East Texas Regional Planning Commission—Landfill Locations



COG 15: South East Texas Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
15	2214A	IESI Hardin County Landfill	Hardin	1	57,359	904,090	1634	738,642	12
15	1486B	City of Beaumont Landfill	Jefferson	1	258,425	18,191,897	1384	12,588,793	49
15	1815A	City of Port Arthur Landfill	Jefferson	1	119,227	15,376,222	1159	8,910,521	75
15	2027	BFI Golden Triangle Landfill	Jefferson	1	255,253	7,682,050	1517	5,826,835	22

COG 16: Houston-Galveston Area Council—Landfill Locations



COG 16: Houston-Galveston Area Council—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
16	1539A	Seabreeze Environmental Landfill	Brazoria	1	621,778	22,119,360	1766	19,531,395	31
16	1708	Dixie Farm Road Landfill	Brazoria	4	48,961	1,968,370	880	866,083	18
16	1502A	Chambers County Landfill	Chambers	1	22,885	17,512,814	1200	10,507,688	459
16	1535B	Baytown Landfill	Chambers	1	289,103	9,158,839	1580	7,235,483	26
16	203A	Altair Disposal Services Landfill	Colorado	1	54,897	509,495	1000	254,748	6
16	1505A	Blue Ridge Landfill	Fort Bend	1	1,261,030	144,743,368	1505	108,919,384	94
16	1797A	Sprint Fort Bend County Landfill	Fort Bend	4	339,836	14,209,714	972	6,905,921	20
16	2270	Fort Bend Regional Landfill	Fort Bend	1	1,083,626	37,208,307	1750	32,557,269	30
16	1149B	Galveston County Landfill	Galveston	1	357,493	37,676,021	1533	28,878,670	54
16	1721A	Coastal Plains Recycling and Disposal Facility	Galveston	1	531,755	12,429,001	1880	11,683,261	22
16	1849B	North County Landfill	Galveston	4	24	3,689,415	2130	3,929,227	50
16	261B	McCarty Road Landfill	Harris	1	1,116,311	22,706,328	2214	25,135,905	19
16	1193	Whispering Pines Landfill	Harris	1	20	10,902,323	2000	10,902,323	10
16	1301	Addicks Fairbanks Landfill	Harris	4	129,328	274,492	1320	181,165	1
16	1307D	Atascocita Recycling and Disposal Facility	Harris	1	1,253,621	39,697,262	1540	30,566,892	28
16	1403	Casco Hauling and Excavation Landfill	Harris	4	83,589	1,435,889	900	646,150	8
16	1540A	Greenshadows Landfill	Harris	4	110,199	2,673,385	1640	2,192,176	21
16	1565B	Fairbanks Landfill	Harris	4	53,814	17,932,328	1500	13,449,246	39
16	1586A	WCT Greenbelt Landfill	Harris	4	135,280	3,161,192	1500	2,370,894	13
16	1599A	Greenhouse Road Landfill	Harris	4	123,931	5,651,000	1500	4,238,250	20
16	1921A	Cougar Landfill	Harris	4	16	69,373	1400	48,561	4
16	2185	Hawthorn Park Landfill	Harris	4	151,350	4,466	1540	3,439	4
16	2240A	Ralston Road Landfill	Harris	4	114,814	614,977	1500	461,233	4
16	2304	Tall Pines Landfill	Harris	4	316,931	2,285,381	1500	1,714,036	5
16	2344	Lone Star Recycling and Disposal Facility	Harris	4	323,610	11,637,728	1078	6,272,735	18
16	1752B	Security Recycling and Disposal Facility	Montgomery	1	447,184	12,978,673	1460	9,474,431	24

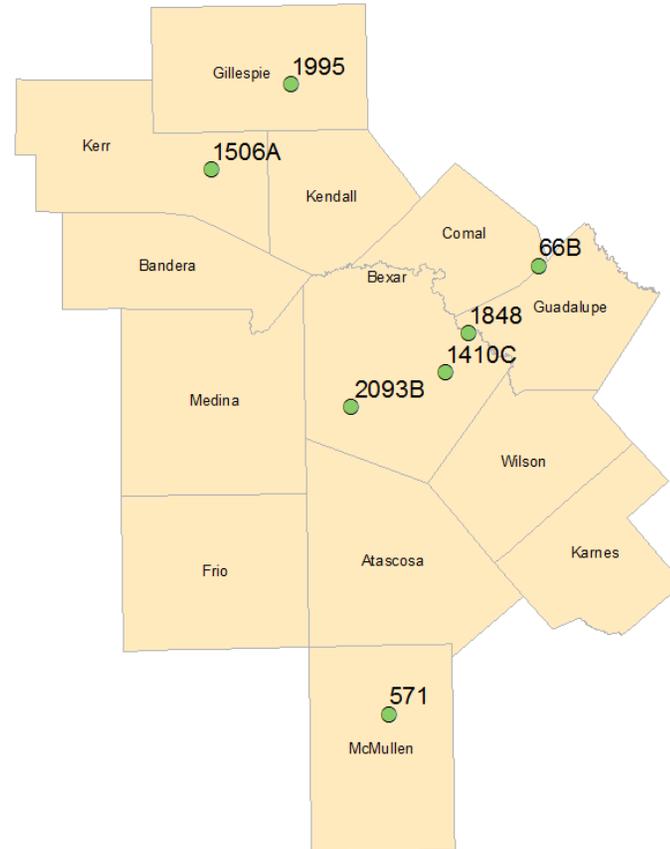
COG 17: Golden Crescent Regional Planning Commission—Landfill Locations



COG 17: Golden Crescent Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
17	1522A	City of Victoria Landfill	Victoria	1	148,414	7,350,520	1367	5,024,080	29

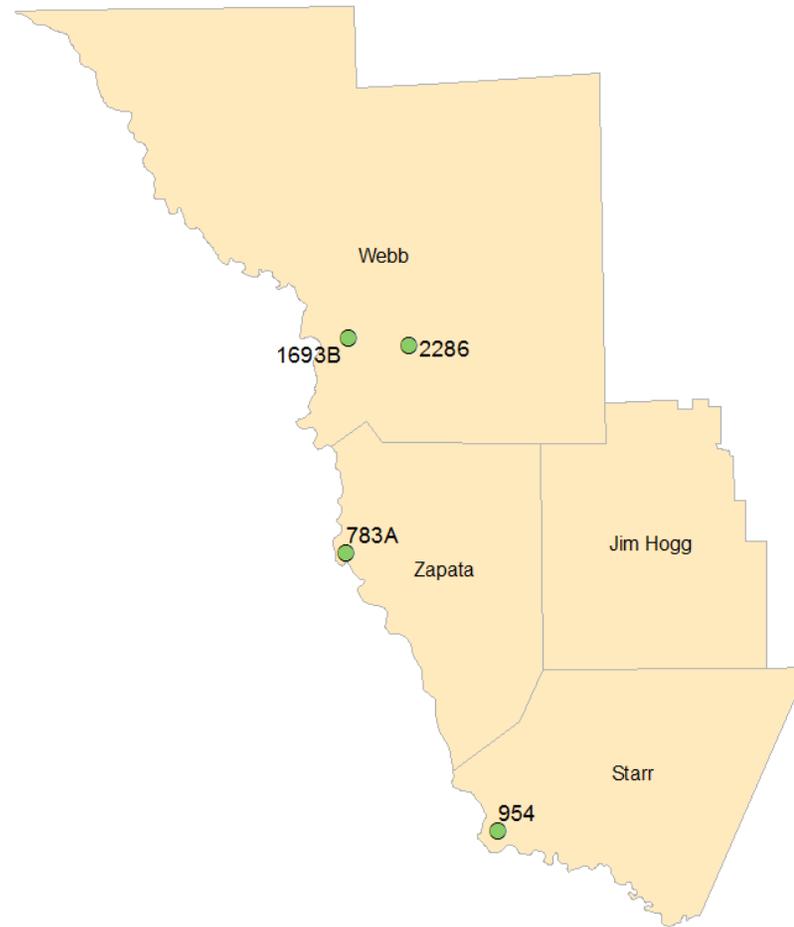
COG 18: Alamo Area Council of Governments—Landfill Locations



COG 18: Alamo Area Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
18	1410C	BFI Waste Tessman Road Landfill	Bexar	1	835,155	71,734,411	1706	61,189,453	47
18	2093B	Covel Gardens Landfill	Bexar	1	1,117,296	104,618,793	1750	91,541,444	78
18	66B	Mesquite Creek Landfill	Comal and Guadalupe	1	457,219	11,445,963	1750	10,015,218	20
18	1995	City of Fredericksburg Landfill	Gillespie	1	32,067	1,631,138	1180	962,371	25
18	1848	Beck Landfill	Guadalupe	4	423,833	4,920,543	1300	3,198,353	15
18	1506A	City of Kerrville Landfill	Kerr	1	9,233	693,821	2621	909,252	14
18	571	McMullen County	McMullen	1AE	500	8,669	750	3,251	7

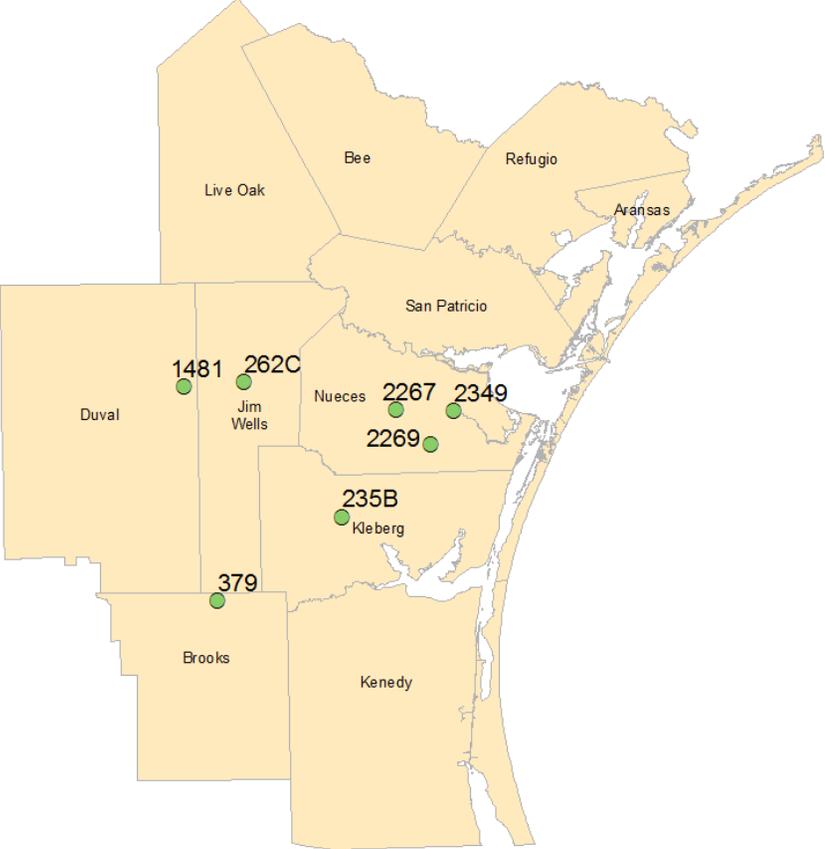
COG 19: South Texas Development Council—Landfill Locations



COG 19: South Texas Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
19	954	City of Roma Landfill	Starr	1AE	4,118	27,445	850	11,664	2
19	1693B	City of Laredo Landfill	Webb	1	371,264	7,563,837	1296	4,901,366	13
19	2286	Ponderosa Regional Landfill	Webb	1	44,280	88,015,501	1060	46,648,216	93
19	783A	San Ygnacio Landfill	Zapata	1AE&4AE	2,183	282,171	1000	141,086	36

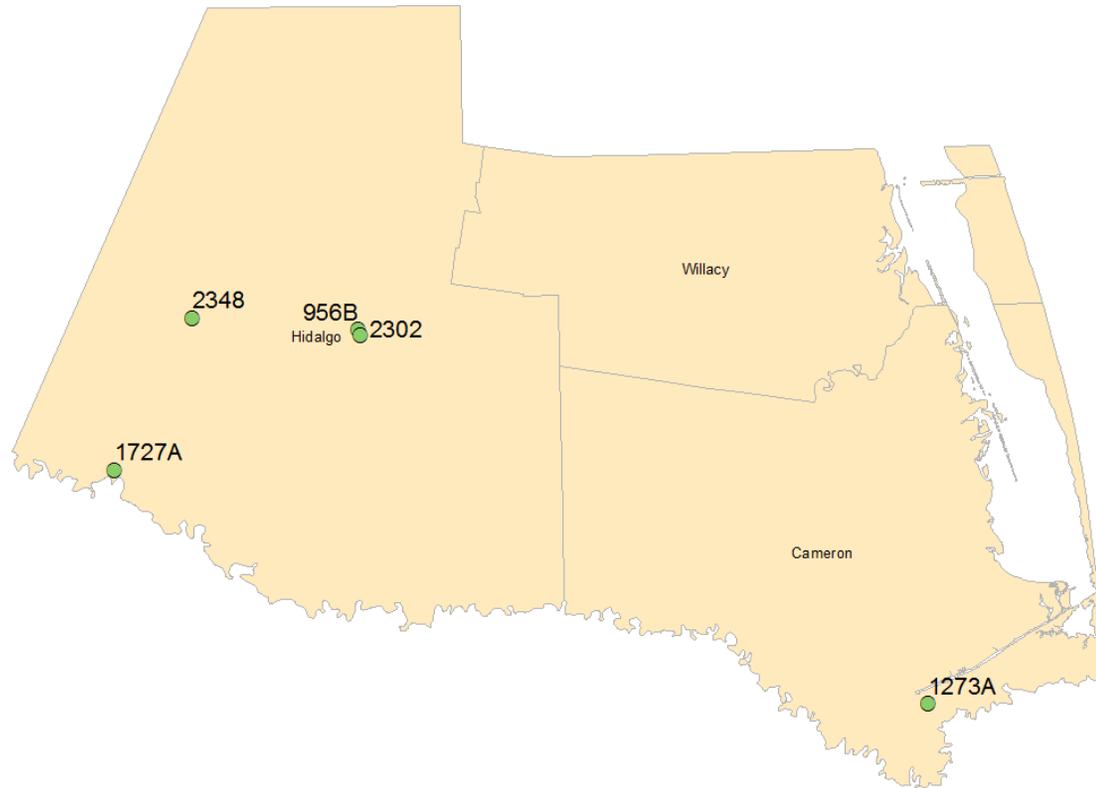
COG 20: Coastal Bend Council of Governments—Landfill Locations



COG 20: Coastal Bend Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
20	379	Brooks County Landfill	Brooks	4AE	318	293,621	400	58,724	28
20	1481	Duval County Landfill	Duval	4AE	1,562	20,118	800	8,047	10
20	262C	City of Alice Landfill	Jim Wells	1	29,244	745,848	1200	447,509	15
20	235B	City of Kingsville Landfill	Kleberg	1	29,846	3,119,758	827	1,290,020	44
20	2267	El Centro Landfill	Nueces	1	139,658	14,632,139	1947	14,244,387	60
20	2269	Cefe Valenzuela Landfill	Nueces	1	429,862	123,749,637	1342	83,036,006	100
20	2349	Gulley Hurst Landfill	Nueces	4	85,412	11,182,632	750	4,193,487	49

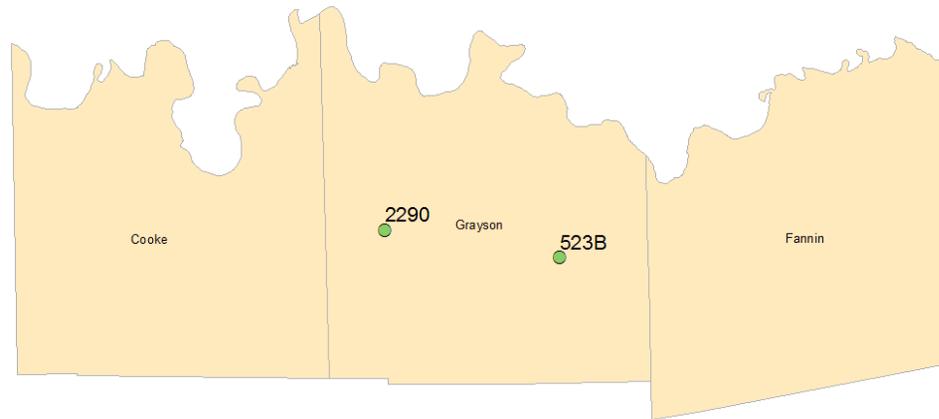
COG 21: Lower Rio Grande Valley Development Council—Landfill Locations



COG 21: Lower Rio Grande Valley Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
21	1273A	City of Brownsville Municipal Landfill	Cameron	1	306,905	28,062,403	1378	19,334,996	47
21	956B	City of Edinburg Landfill	Hidalgo	1	494,319	5,738,692	1215	3,486,255	7
21	1727A	Penitas Landfill	Hidalgo	1AE	6,666	37,358	1000	18,679	1
21	2302	City of Edinburg Landfill	Hidalgo	4	123,725	10,428,464	920	4,797,093	31
21	2348	La Gloria Ranch Landfill	Hidalgo	1	288,990	109,567,542	1278	70,013,659	177

COG 22: Texoma Council of Governments—Landfill Locations



COG 22: Texoma Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
22	523B	Hillside Landfill	Grayson	1	56,725	11,392,083	960	5,468,200	100
22	2290	TEXOMA Area Solid Waste Authority Disposal and Recycling Facility	Grayson	1	144,375	22,844,142	900	10,279,864	71

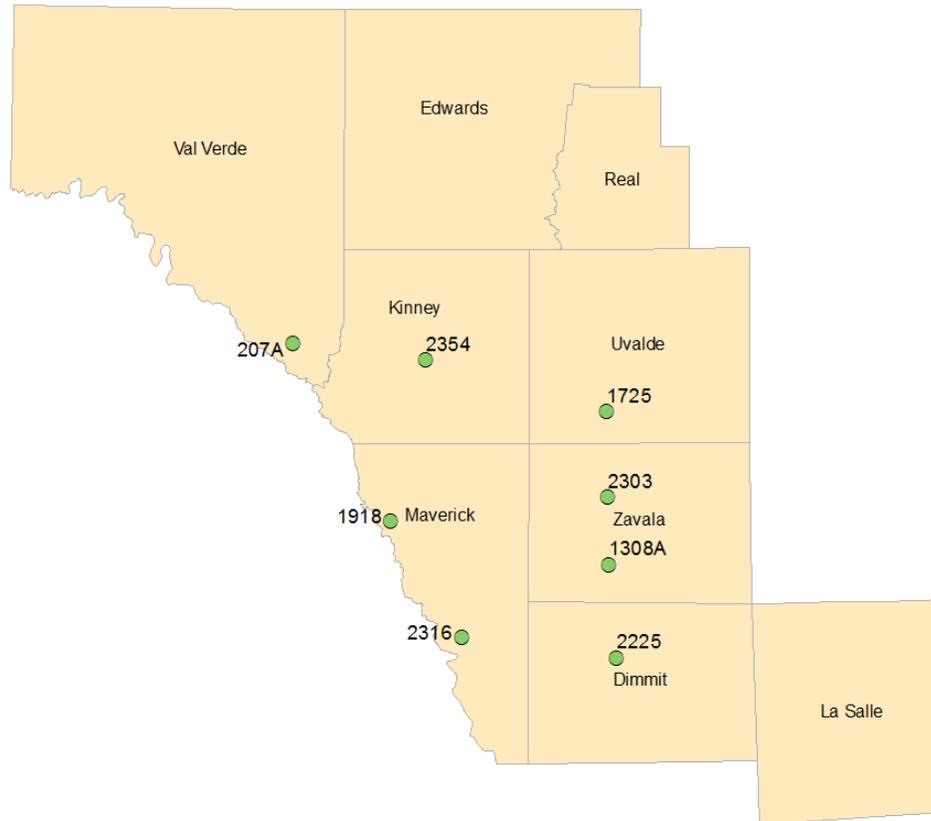
COG 23: Central Texas Council of Governments—Landfill Locations



COG 23: Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
23	692A	Temple Recycling and Disposal Facility	Bell	1	401,460	7,228,661	1400	5,060,063	11
23	1866	Fort Hood Landfill	Coryell	1	16,587	2,706,746	1100	1,488,710	30

COG 24: Middle Rio Grande Valley Development Council—Landfill Locations



COG 24: Middle Rio Grande Valley Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2016 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
24	2225	City of Carrizo Springs Landfill	Dimmit	1AE	6,365	1,577,873	600	473,362	59
24	2354	Fort Clark Springs Association Landfill	Kinney	1AE	457	463,674	800	185,470	147
24	1918	City of Eagle Pass and Maverick Landfill	Maverick	4AE	2,287	1,131,175	750	424,191	19
24	2316	Maverick County El Indio Landfill	Maverick	1	51,773	11,455,443	1000	5,727,722	68
24	1725	City of Uvalde Landfill	Uvalde	1	21,784	328,337	1000	164,169	8
24	207A	City of Del Rio Landfill	Val Verde	1	54,092	1,245,552	700	435,943	8
24	1308A	City of Crystal City Landfill	Zavala	1AE	5,878	1,419,399	850	603,245	30
24	2303	Zavala County Landfill	Zavala	1AE	3,746	133,245	550	36,642	21

Facility Data for MSW Processing Facilities

The maps and tables included in this section represent the MSW processing facilities active in fiscal year 2016, and the reported tons of materials handled in terms of the major activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated). The maps and tables are organized by COG Region and county. All values are rounded to the nearest whole number.

Key to Processing Facility Types

Type	Description
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	Composting facility
5RR	Recycling & recovery facility
5TL	Liquid waste transfer station
5TS	Transfer station
5WI	Incinerator (no electrical power generation)

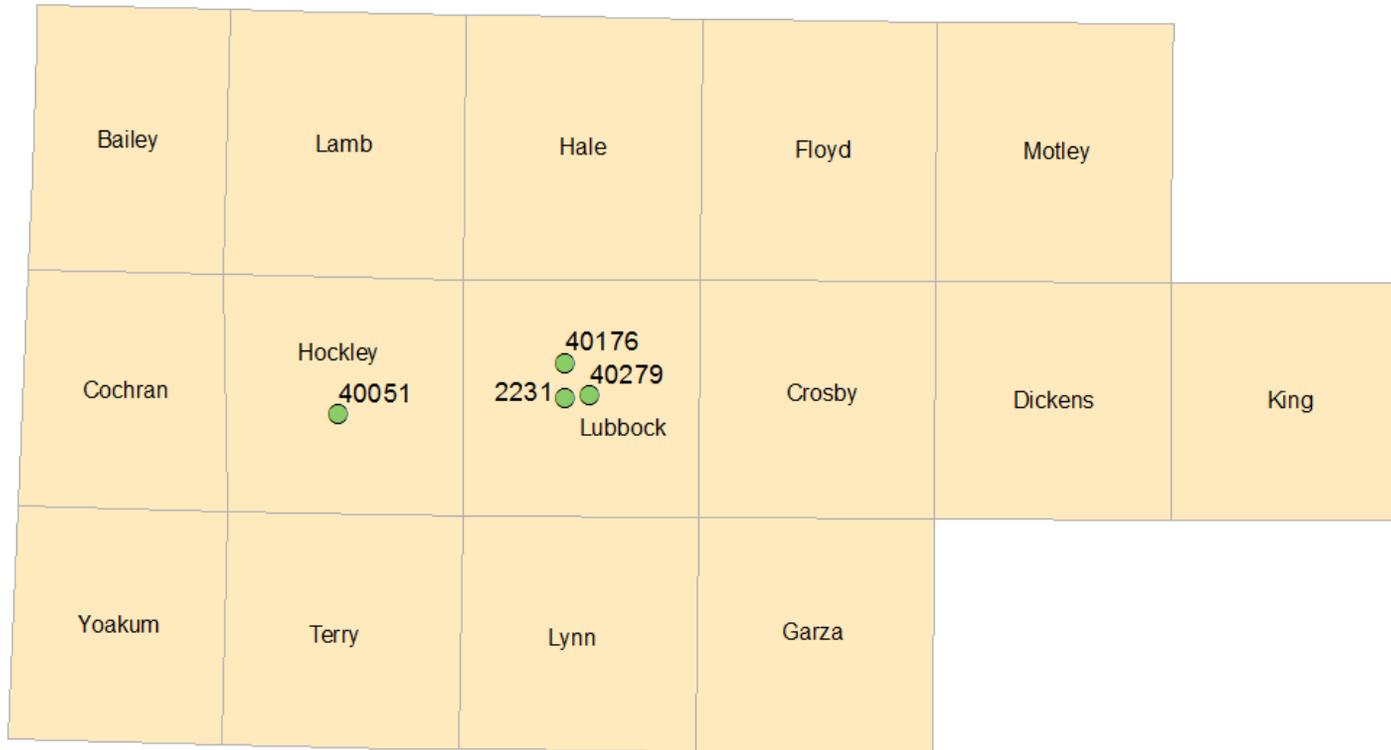
COG 1: Panhandle Regional Planning Commission—Processing Facility Locations



COG 1: Panhandle Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
1	40271	Tri-State Recycling	Dallam	5TS	8,471
1	40192	City of Clarendon Transfer Station	Donley	5TS	1,743
1	43030	City of Pampa Liquid Waste Processing Facility	Gray	5GG	845
1	40026	City of Canadian Transfer Station	Hemphill	5TS	4,314
1	40015	City of Borger Transfer Station	Hutchinson	5TS	19,943
1	40031	City of Cactus Transfer Station	Moore	5TS	1,334
1	76A	City of Amarillo Transfer Station	Potter	5TS	156,197
1	40263	Biocycle Medical Waste Processing Facility	Potter	5AC	2,524
1	40109	City of Stratford Transfer Station	Sherman	5TS	2,714

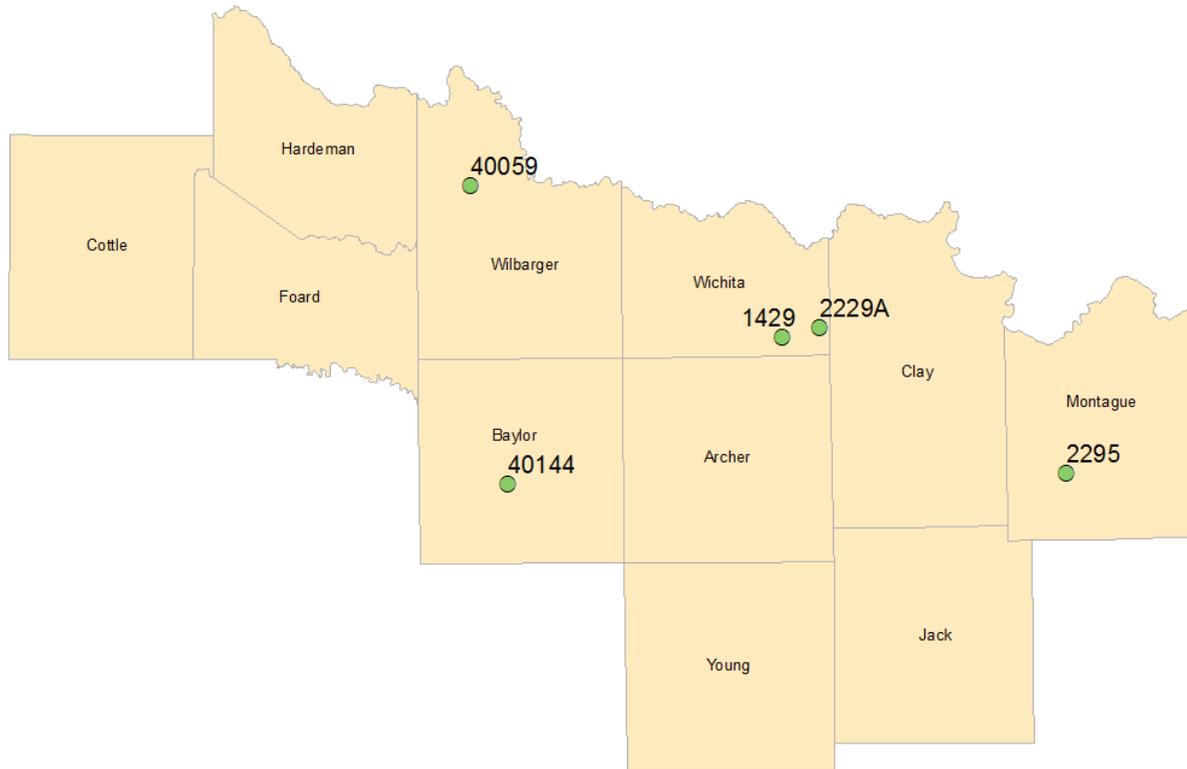
COG 2: South Plains Association of Governments—Processing Facility Locations



COG 2: South Plains Association of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
2	40051	City of Levelland Transfer Station	Hockley	5TS	78
2	2231	Southwaste Disposal South Plains Facility	Lubbock	5GG	9,310
2	40176	Caliche Canyon Transfer Station	Lubbock	5TS	199
2	40279	Stericycle Lubbock Medical Waste Transfer Station	Lubbock	5TS	1650

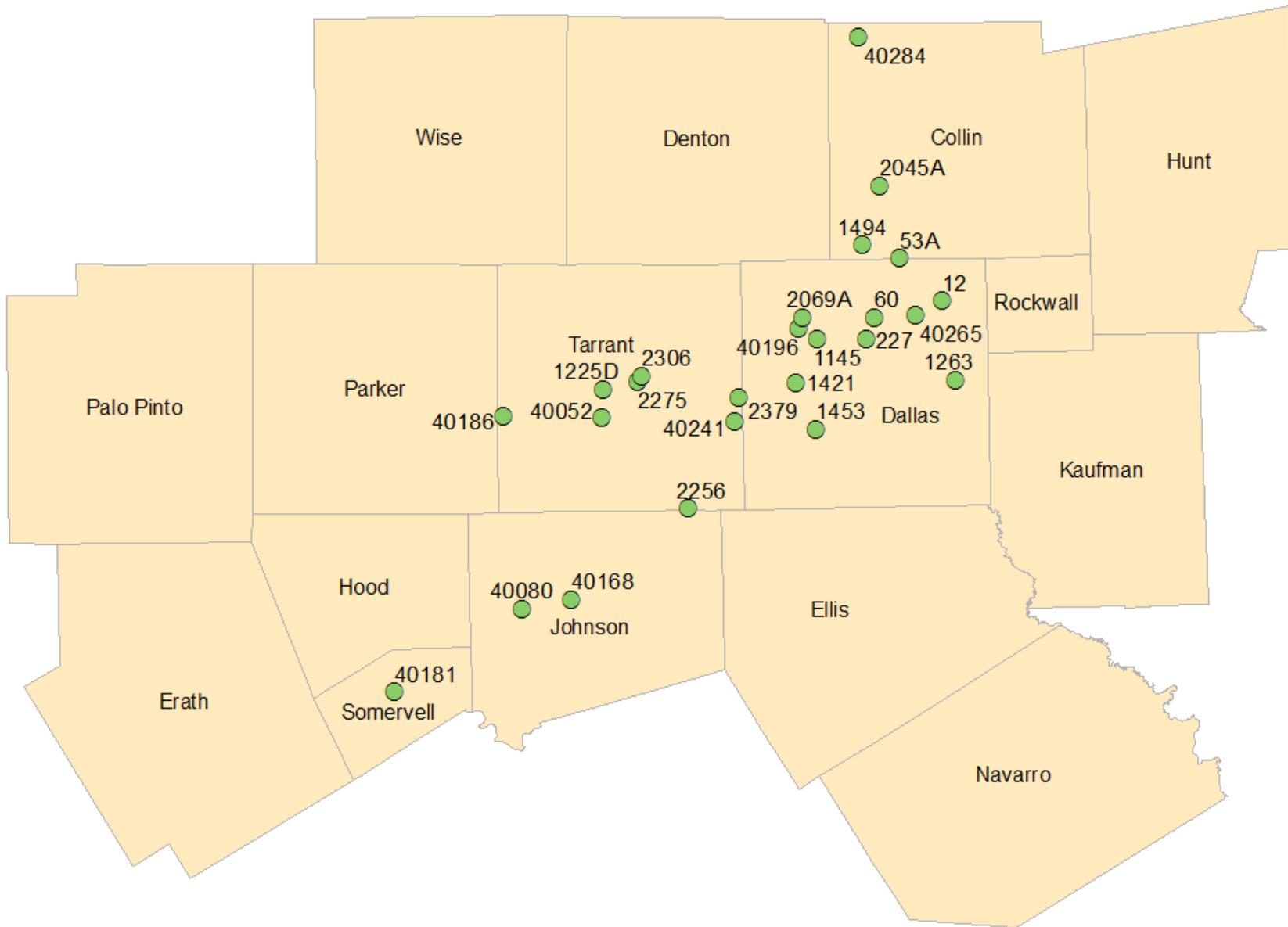
COG 3: Nortex Regional Planning Commission—Processing Facility Locations



COG 3: Nortex Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
3	40144	City of Seymour Transfer Station	Baylor	5TS	733
3	2295	IESI Bowie Transfer Station	Montague	5TS	52,237
3	1429	City of Wichita Falls Transfer Station	Wichita	5TS	74,363
3	2229A	IMC Liquid Waste Processing Facility	Wichita	5GG	16,312
3	40059	City of Vernon Transfer Station	Wilbarger	5TS	17,388

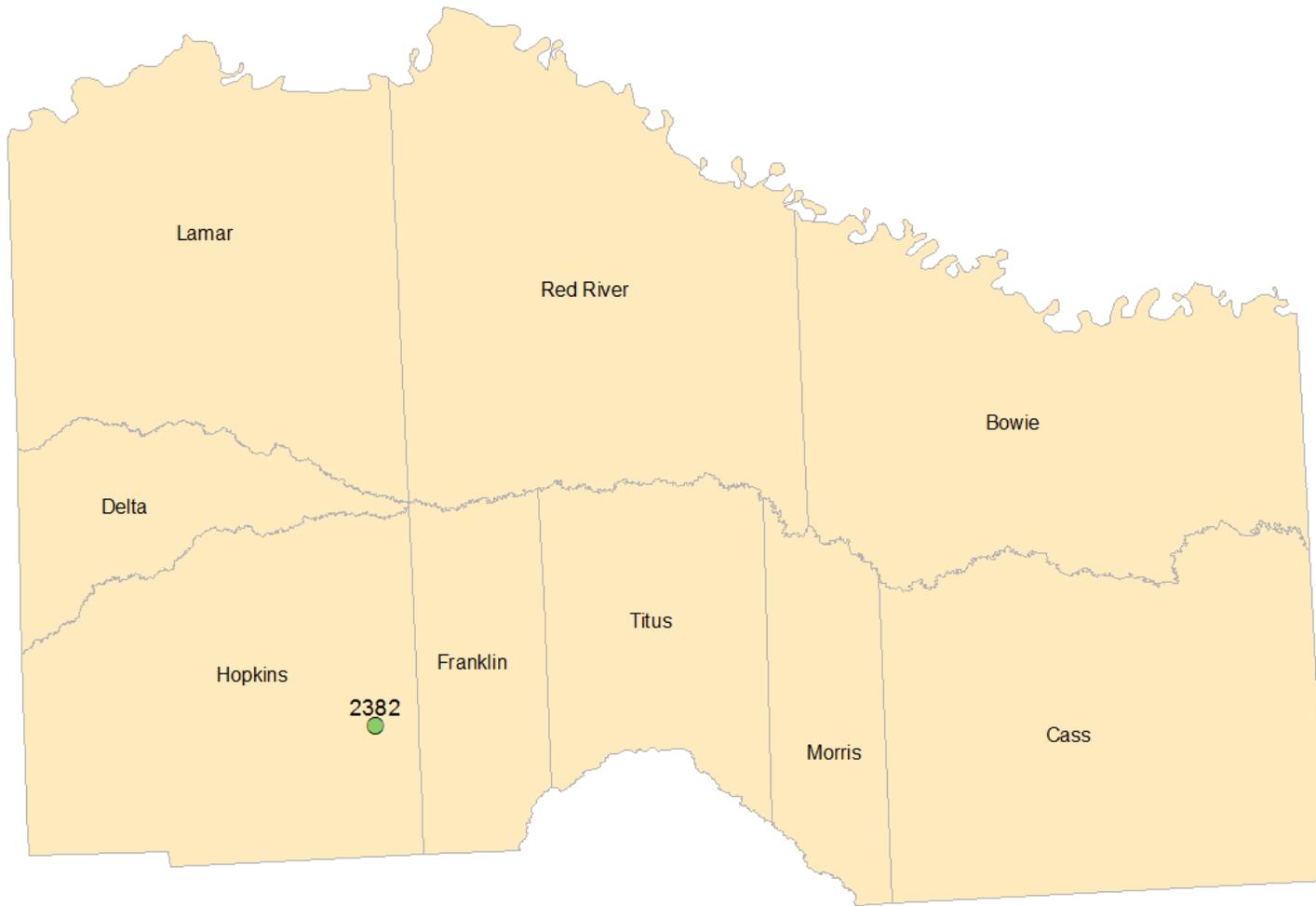
COG 4: North Central Texas Council of Governments—Processing Facility Locations



COG 4: North Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
4	53A	Lookout Drive Transfer Station	Collin	5TS	156,383
4	1494	Parkway Transfer Station	Collin	5TS	120,092
4	2045A	Custer Road Transfer Station	Collin	5TS	285,363
4	40284	Town and Country Recycling Facility	Collin	5TS	14,734
4	12	City of Garland Transfer Station	Dallas	5TS	124,182
4	60	City of Dallas Transfer Station - Fair Oaks Ave	Dallas	5TS	72,737
4	227	City of University Park Transfer Station	Dallas	5TS	12,947
4	1145	City of Dallas Transfer Station - Harry Hines Blvd	Dallas	5TS	142,315
4	1263	City of Mesquite Transfer Station	Dallas	5TS	53,054
4	1421	PSC Recovery Systems Liquid Waste Processing Facility	Dallas	5GG	50,796
4	1453	City of Dallas Transfer Station - Westmoreland Rd	Dallas	5TS	79,193
4	2069A	Liquid Environmental Solutions of Texas Dallas Facility	Dallas	5GG	166,278
4	40196	Community Waste Disposal Transfer Station	Dallas	5TS	58,083
4	40265	Stericycle Garland Facility	Dallas	5AC	13,775
4	40080	Harrington Environmental Liquid Transfer Station	Johnson	5TL	5,300
4	40168	Cleburne Transfer Station	Johnson	5TS	62,745
4	40181	Somervell County Transfer Station	Somervell	5TS	1,461
4	1225D	Cold Springs Liquid Waste Processing Facility	Tarrant	5GG	66,191
4	2256	Southwaste Disposal Dallas Facility	Tarrant	5GG	100,610
4	2275	North Texas Recycling Complex (facility reported all incoming materials as diverted and no waste transferred for disposal)	Tarrant	5TS	0
4	2306	IESI Minnis Drive Transfer Station	Tarrant	5TS	127,300
4	2379	Liquitek Arlington Liquid Waste Processing Facility	Tarrant	5GG	69,498
4	40052	Southwest Paper Stock Transfer Station	Tarrant	5TS	28,560
4	40186	Westside Transfer Station	Tarrant	5TS	169,044
4	40241	Oncore Technology Facility	Tarrant	5MW	966

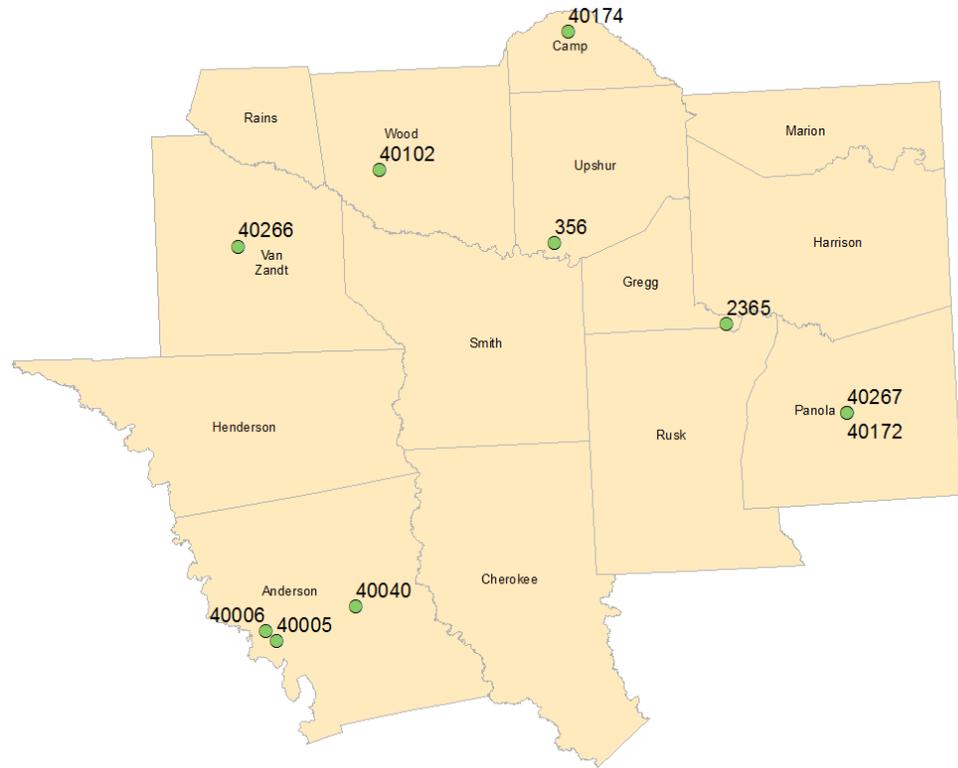
COG 5: Ark-Tex Council of Governments—Processing Facility Locations



COG 5: Ark-Tex Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
5	2382	Stouts Creek Compost Facility	Hopkins	5RC	5,278

COG 6: East Texas Council of Governments—Processing Facility Locations



COG 6: East Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
6	40005	TDCJ Beto Transfer Station	Anderson	5TS	926
6	40006	TDCJ Coffield Transfer Station	Anderson	5TS	1,256
6	40040	IESI Palestine Transfer Station	Anderson	5TS	52,859
6	40174	Pittsburgh Transfer Station	Camp	5TS	25,300
6	2365	Edwards Construction Facility	Gregg	5GG	6,592
6	40172	City of Carthage Transfer Station	Panola	5TS	12,464
6	40267	Sharps Environmental Services Facility	Panola	5MW	864
6	356	Vital Earth Resources Composting Facility	Upshur	5RC	2,094
6	40266	City of Canton Transfer Station	Van Zandt	5TS	16,623
6	40102	Upper Sabine Valley SWMD Transfer Station	Wood	5TS	11,983

COG 7: West Central Texas Council of Governments—Processing Facility Locations



COG 7: West Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
7	No Processing Facilities in COG Region 7 in FY 2016				

COG 8: Rio Grande Council of Governments—Processing Facility Locations



COG 8: Rio Grande Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
8	728	City of El Paso Delta Transfer Station	El Paso	5TS	948
8	2355	Liquid Environmental Solutions of Texas El Paso Facility	El Paso	5GG	16,447
8	40237	El Paso C&D Recycling Plant	El Paso	5RR	2,072
8	40261	Stericycle El Paso Medical Waste Transfer Station	El Paso	5TS	1,560
8	40262	Mediwaste Medical Waste Treatment Facility	El Paso	5AC	94
8	42038	Fort Bliss Bio Cell Facility	El Paso	5RC	174
8	42036	Cerro Alto Monofill Sludge	Hudspeth	5RC	207

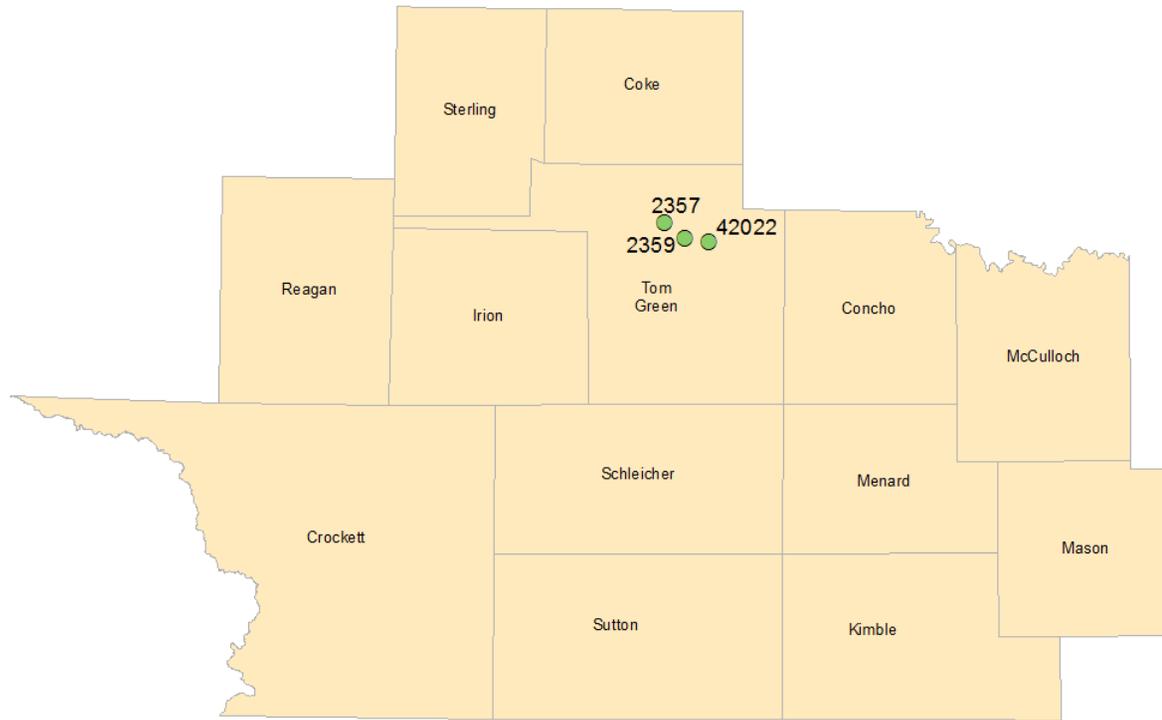
COG 9: Permian Basin Regional Planning Commission—Processing Facility Locations



COG 9: Permian Basin Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
9	2373	Affordable Dewatering Service	Midland	5GG	102,097
9	43028	City of Stockton Liquid Waste Processing Facility	Pecos	5GG	1,203

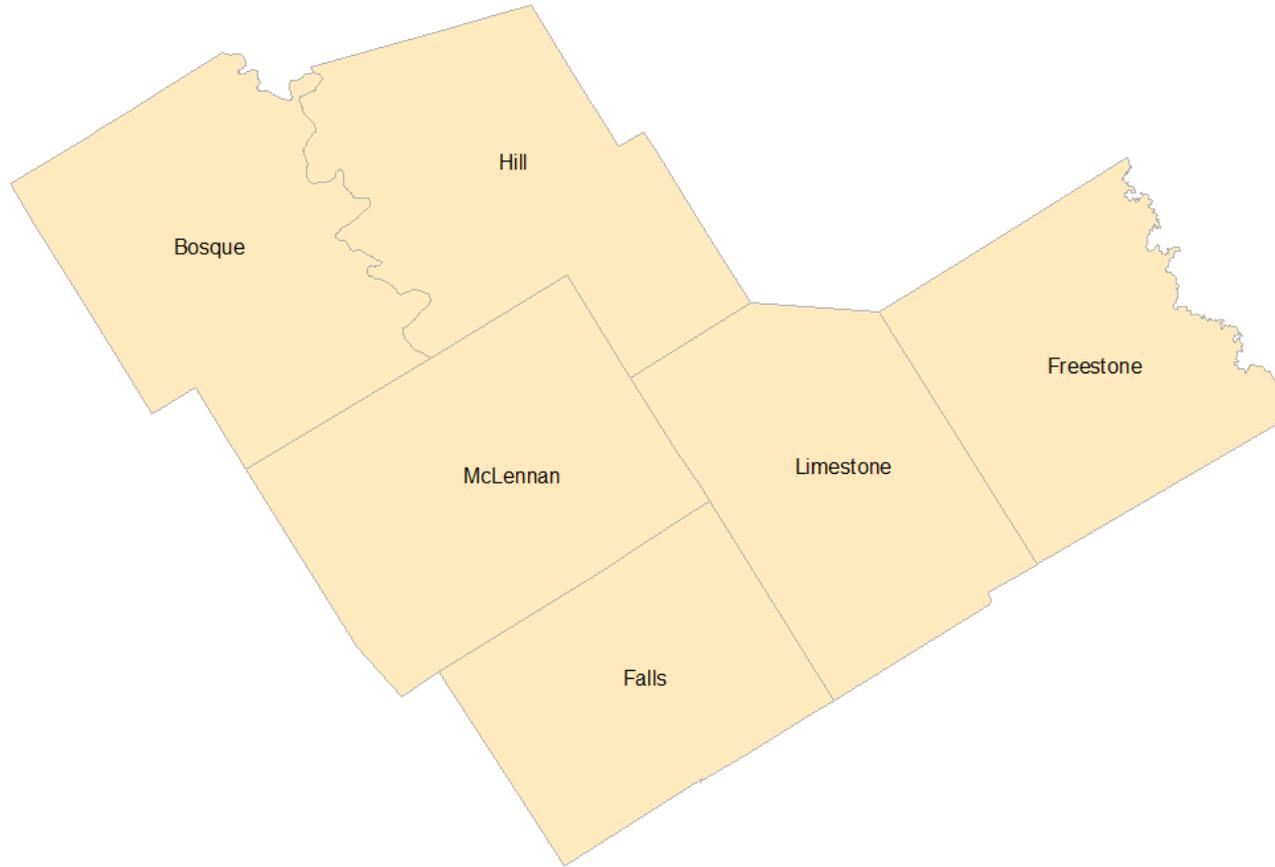
COG 10: Concho Valley Council of Governments—Processing Facility Locations



COG 10: Concho Valley Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
10	2357	San Angelo Pro Pump Dewatering & Compost Facility	Tom Green	5RC	3,381
10	2359	D's Recycling Facility	Tom Green	5RC	959
10	42022	Kickapoo Composting Facility	Tom Green	5RC	1,583

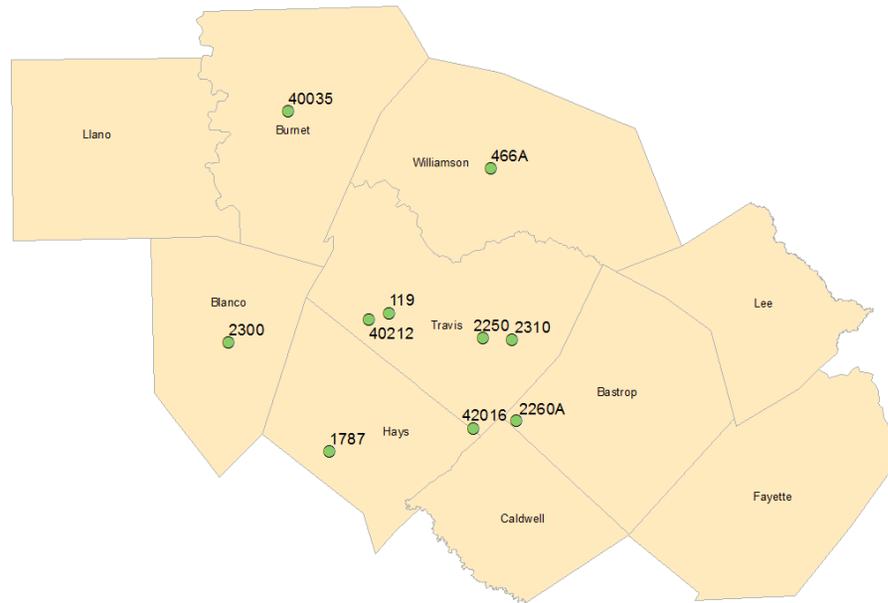
COG 11: Heart of Texas Council of Governments—Processing Facility Locations



COG 11: Heart of Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
11	No Processing Facilities in COG Region 11 in FY 2016				

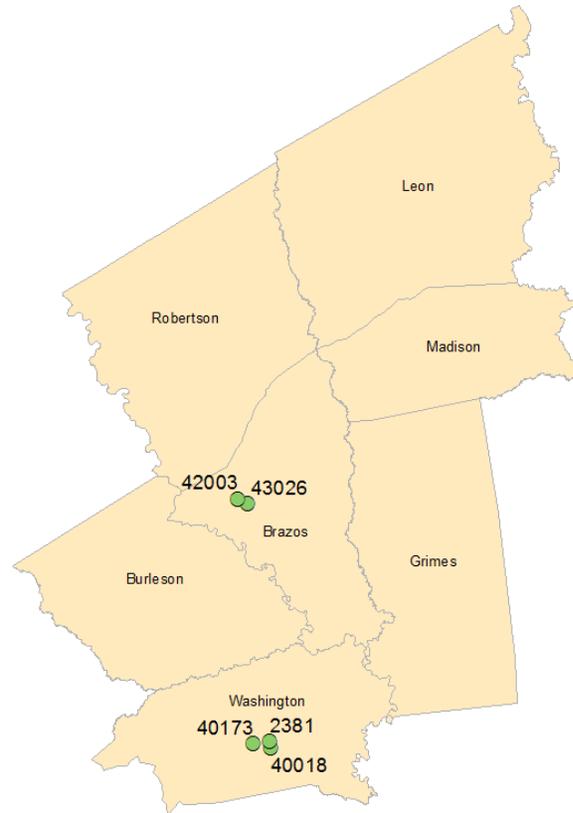
COG 12: Capital Area Council of Governments—Processing Facility Locations



COG 12: Capital Area Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
12	2260A	Stericycle Medical Waste Processing Facility	Bastrop	5AC	7,664
12	2300	IESI Blanco County Transfer Station	Blanco	5TS	24,198
12	40035	BFI Burnet Transfer Station	Burnet	5TS	24,792
12	1787	Hays County Transfer Station	Hays	5TS	2,161
12	119	Texas Disposal System Eco Depot	Travis	5TS	5,562
12	2250	Liquid Environmental Solutions of Texas Austin Facility	Travis	5GG	69,571
12	2310	J-V Dirt + Loam Facility	Travis	5RC	130,565
12	40212	Tom Dye Liquid Waste Transfer Station	Travis	5TL	412
12	42016	Texas Organic Recovery Facility	Travis	5RC	15,169
12	466A	Georgetown Transfer Station	Williamson	5TS	70,049

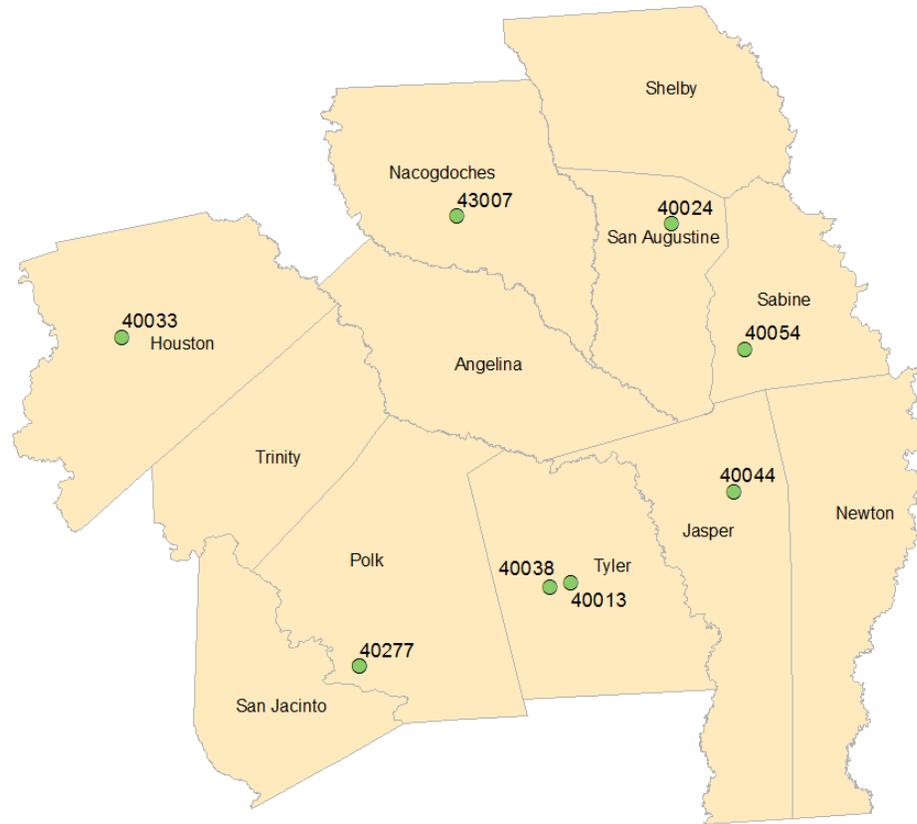
COG 13: Brazos Valley Council of Governments—Processing Facility Locations



COG 13: Brazos Valley Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
13	42003	Bryan Compost Facility	Brazos	5RC	11,692
13	43026	Still Creek Liquid Waste Processing Facility	Brazos	5GG	7,847
13	2381	L&G Environmental	Washington	5GG	5,462
13	40018	City of Brenham Transfer Station	Washington	5TS	30,032
13	40173	Washington County Transfer Station	Washington	5TS	38,879

COG 14: Deep East Texas Council of Governments—Processing Facility Locations



COG 14: Deep East Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
14	40033	Hutto Garbage Service Transfer Station	Houston	5TS	792
14	40044	City of Jasper Transfer Station	Jasper	5TS	20,000
14	43007	City of Nacogdoches Grease Treatment Facility	Nacogdoches	5GG	2,352
14	40277	Pro Star Waste Transfer Station	Polk	5TS	2,160
14	40054	Don General Services Transfer Station	Sabine	5TS	3,471
14	40024	City of San Augustine Transfer Station	San Augustine	5TS	2,438
14	40013	City of Woodville Transfer Station	Tyler	5TS	3,570
14	40038	Tyler County Transfer Station	Tyler	5TS	1,520

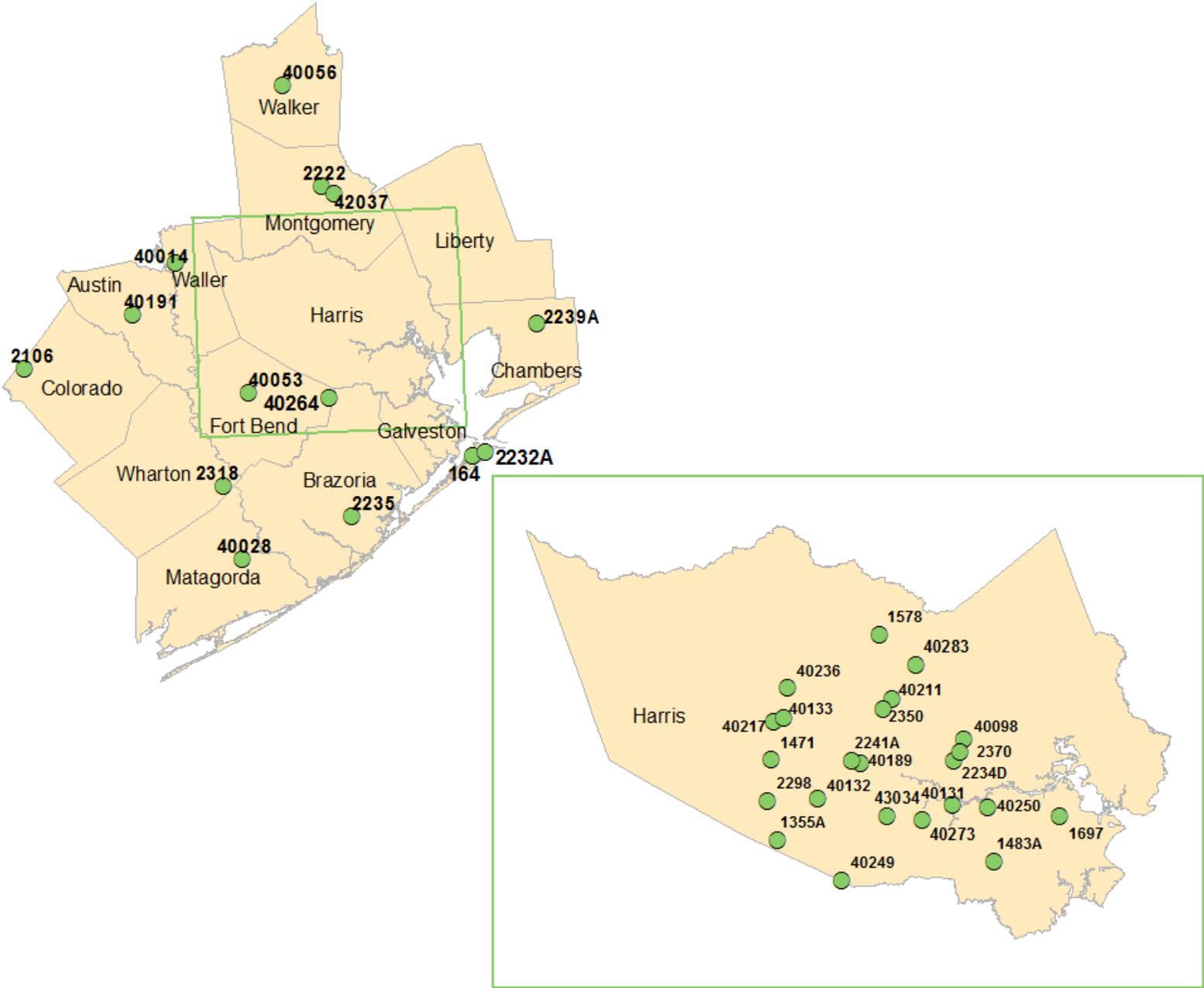
COG 15: South East Texas Regional Planning Commission—Processing Facility Locations



COG 15: South East Texas Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
15	40164	JTB Recycling Liquid Waste Transfer Station	Jefferson	5TL	370
15	40225	Triangle Waste Solutions Transfer Station	Jefferson	5TS	29,295
15	40268	Biomedical Waste Solutions Medical Waste Processing Facility	Jefferson	5AC	2,970
15	43000	JTB Recycling Liquid Waste Processing Facility	Jefferson	5GG	5,053

COG 16: Houston-Galveston Area Council—Processing Facility Locations

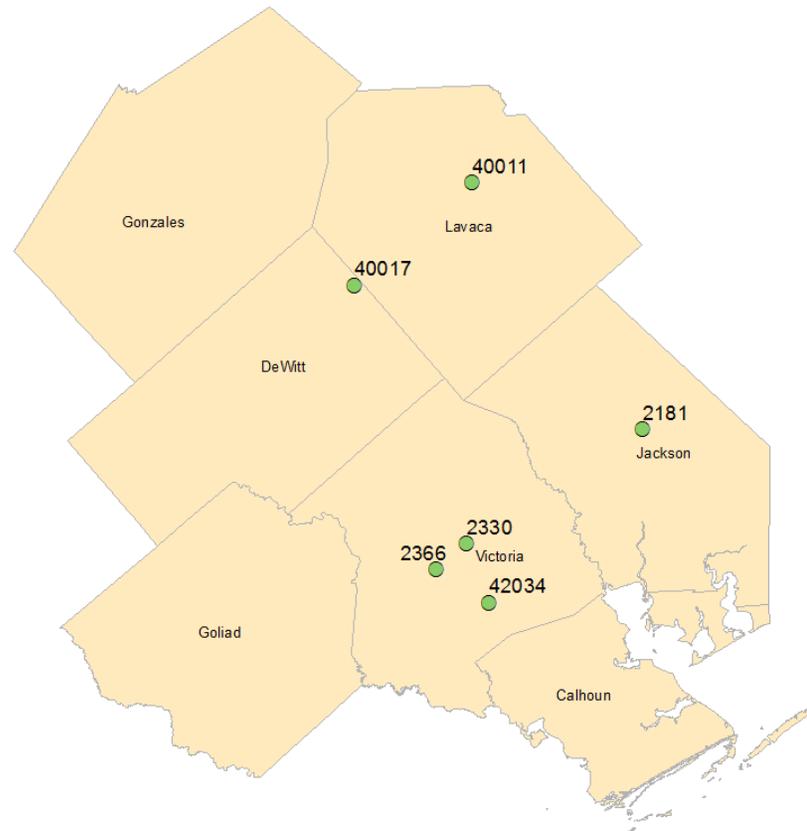


COG 16: Houston-Galveston Area Council List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
16	40191	Country Waste Transfer Station	Austin	5TS	6,540
16	2235	Brazoria County Recycling Center (facility reported all incoming materials as diverted and no waste transferred for disposal)	Brazoria	5RR	0
16	2239A	Gulfwest Waste Solutions	Chambers	5WI	2,888
16	2106	City of Weimar Transfer Station	Colorado	5TS	37,322
16	40053	Best Septic Tank Cleaning Liquid Transfer Station	Fort Bend	5TL	1,241
16	40264	Stericycle Fresno Transfer Station	Fort Bend	5TS	3,328
16	164	City of Galveston Transfer Station	Galveston	5TS	94,891
16	2232A	UTMB Galveston Solid Waste Incineration Facility	Galveston	5WI	599
16	1355A	Ruffino Hills Transfer Station	Harris	5TS	407,809
16	1471	Sam Houston Recycling Center	Harris	5TS	151,202
16	1483A	Koenig Street Transfer Station	Harris	5TS	145,461
16	1578	Hardy Road Transfer Station	Harris	5TS	440,999
16	1697	City of Deer Park Transfer Station	Harris	5TS	18,254
16	2234D	Liquid Environmental Solutions of Texas Houston Facility	Harris	5GG	295,601
16	2241A	Southwaste Disposal Hurst Facility	Harris	5GG	129,670
16	2298	B R Perrin Plant	Harris	5GG	303
16	2350	Big K Environmental Facility	Harris	5GG	101,025
16	2370	Wastewater Residuals Management	Harris	5GG	78,547
16	40098	BFI Houston Resource Renewal Complex Transfer Station (facility reported all incoming materials as diverted and no waste transferred for disposal)	Harris	5TS	0
16	40131	Houston Southeast Transfer Station	Harris	5TS	229,165
16	40132	Houston Southwest Transfer Station	Harris	5TS	271,317
16	40133	Houston Northwest Transfer Station	Harris	5TS	220,392
16	40189	Egbert Transfer Station	Harris	5TS	66,579
16	40211	Sprint Recycling Center - Northeast	Harris	5TS	20,450
16	40217	Tanner Road Transfer Station	Harris	5TS	67,998
16	40236	Excell Disposal Waste Containers	Harris	5TS	14,623
16	40249	Lone Star Recycling & Disposal Facility Transfer Station	Harris	5TS	262,705
16	40250	Lone Star SRD Shredding Recycling Disposal Facility	Harris	5AC	143
16	40273	Excel Medical Waste Facility	Harris	5AC	875

COG	Permit or Registration	Site Name	County	Type	2016 Tons
16	40283	Daniels Houston Facility	Harris	5MW	187
16	43034	Liquid Environmental Solutions of Texas Houston Burkett Facility	Harris	5GG	39,069
16	40028	Matagorda County Transfer Station	Matagorda	5TS	6,629
16	2222	Stericycle Conroe Facility	Montgomery	5AC	12,462
16	42037	New Earth Conroe Facility	Montgomery	5RC	482,450
16	40056	City of Huntsville Transfer Station	Walker	5TS	42,428
16	40014	City of Hempstead Transfer Station	Waller	5TS	68
16	2318	Don Tol Compost Facility	Wharton	5RC	3,852

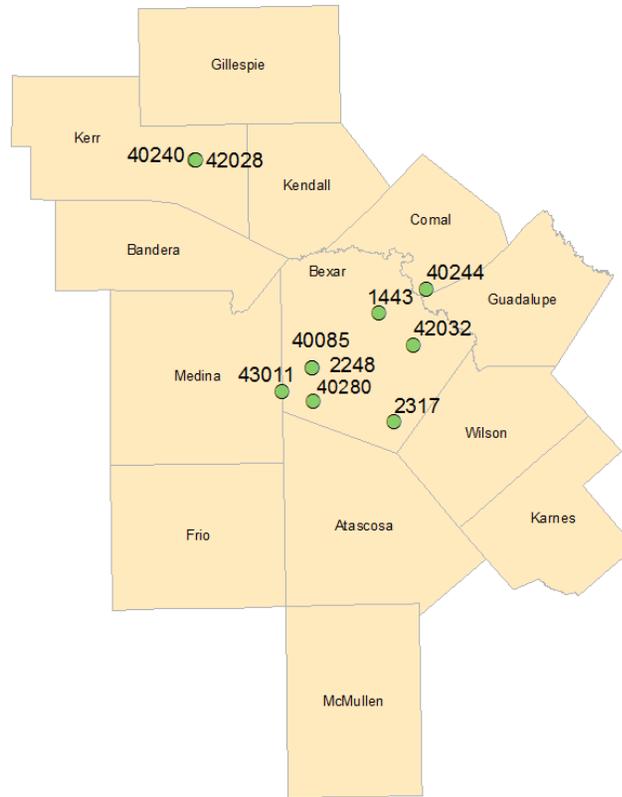
COG 17: Golden Crescent Regional Planning Commission—Processing Facility Locations



COG 17: Golden Crescent Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
17	40017	City of Yoakum Transfer Station	Dewitt	5TS	28,750
17	2181	Jackson County Transfer Station	Jackson	5TS	1,405
17	40011	City of Hallettsville Transfer Station	Lavaca	5TS	547
17	2330	Victoria Environmental Liquid Processing Facility	Victoria	5GG	24,943
17	2366	Victoria Regional WWTP Grit Trap Waste Facility	Victoria	5GG	919
17	42034	Victoria Compost Facility	Victoria	5RC	23,513

COG 18: Alamo Area Council of Governments—Processing Facility Locations



COG 18: Alamo Area Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
18	1443	City of San Antonio Starcrest Transfer Station	Bexar	5TS	152,818
18	2248	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5GG	32,857
18	2317	Southwaste Disposal San Antonio Facility	Bexar	5RC	52,835
18	40085	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5TS	6,254
18	40280	Stericycle San Antonio Facility	Bexar	5TS	3,487
18	42032	New Earth San Antonio Facility	Bexar	5RC	81,000
18	40244	Medsharps Schertz Facility	Comal	5AC	3,118
18	40240	City of Kerrville Transfer Station	Kerr	5TS	64,028
18	42028	City of Kerrville Composting Facility	Kerr	5RC	18,030
18	43011	City of LaCoste Liquid Processing Facility	Medina	5GG	67,471

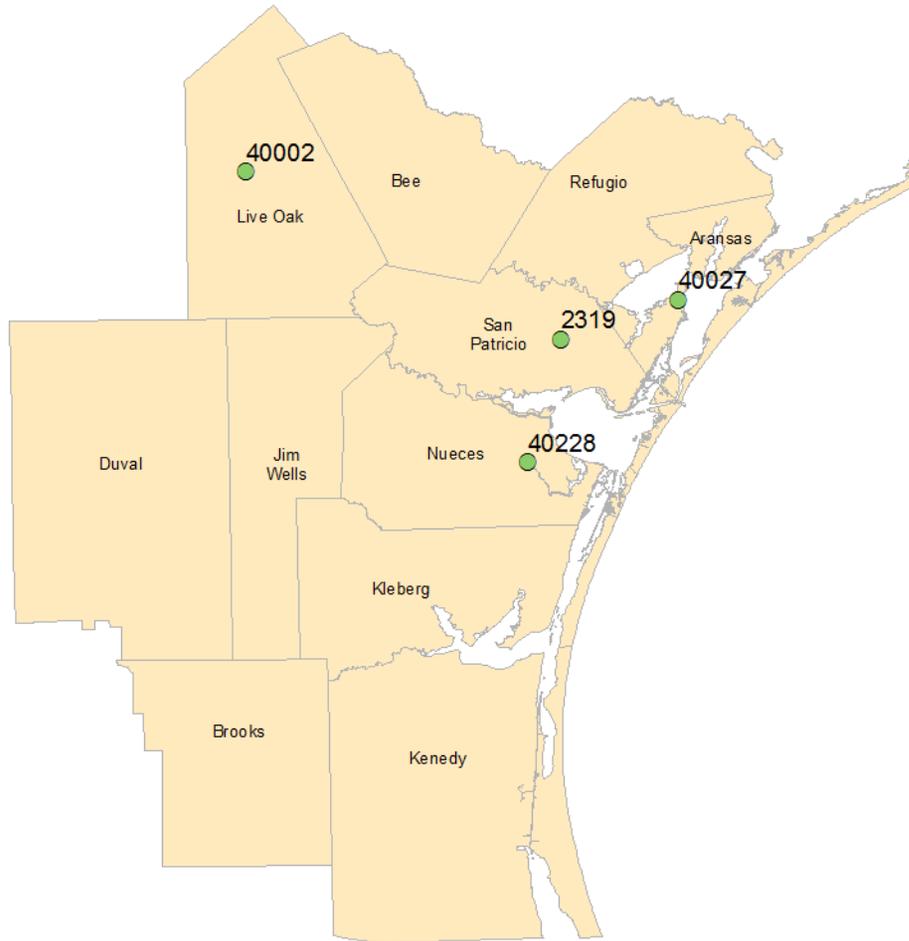
COG 19: South Texas Development Council—Processing Facility Locations



COG 19: South Texas Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
19	40103	Jim Hogg County Transfer Station	Jim Hogg	5TS	8,550
19	40238	Starr County Transfer Station	Starr	5TS	27,302

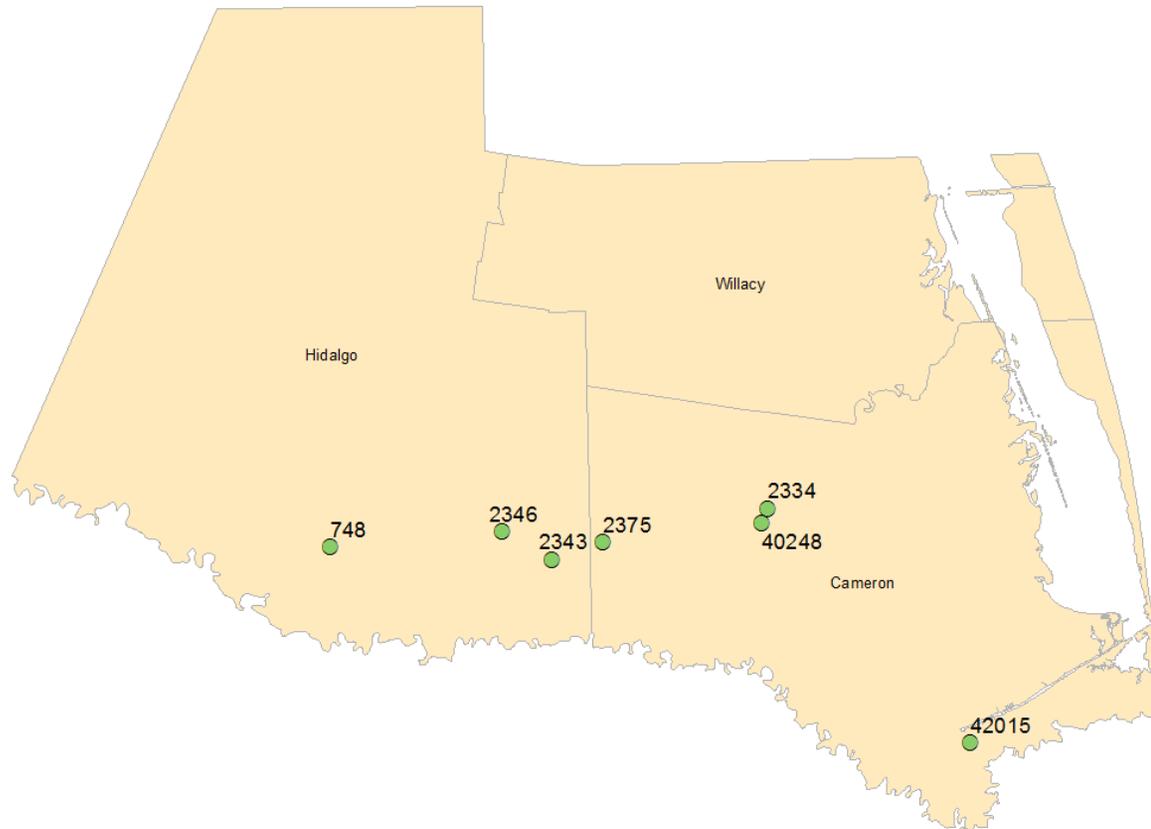
COG 20: Coastal Bend council of Governments—Processing Facility Locations



COG 20: Coastal Bend Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
20	40027	Aransas County Transfer Station	Aransas	5TS	5,267
20	40002	Live Oak County Transfer Station	Live Oak	5TS	990
20	40228	JC Elliott Transfer Station	Nueces	5TS	80,824
20	2319	Texas Sludge Disposal Composting Facility	San Patricio	5RC	16,997

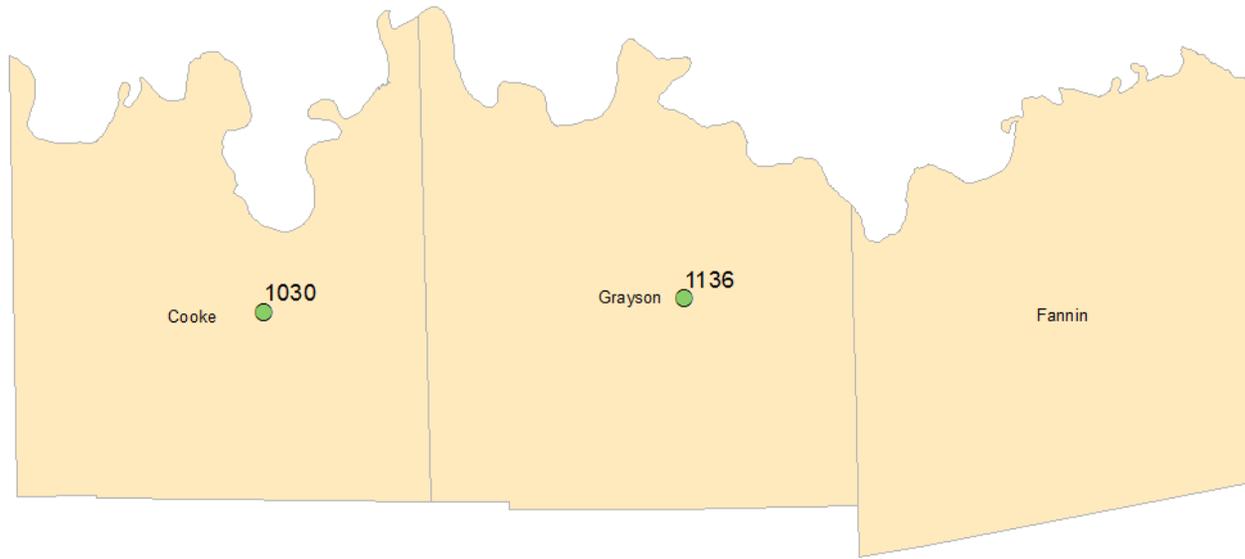
COG 21: Lower Rio Grande Valley Development Council—Processing Facility Locations



COG 21: Lower Rio Grande Valley Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
21	2334	Stericycle Harlingen Processing Facility	Cameron	5MW	3,209
21	2375	La Feria Transfer Station	Cameron	5TS	150,165
21	40248	City of Harlingen Transfer Station	Cameron	5TS	69,296
21	42015	City of Brownsville Composting Facility	Cameron	5RC	24,985
21	748	Pharr Transfer Station	Hidalgo	5TS	30,248
21	2343	Valley Dewatering Services	Hidalgo	5GG	21,418
21	2346	Liquid Environmental Solutions of Texas Weslaco Facility	Hidalgo	5GG	18,134

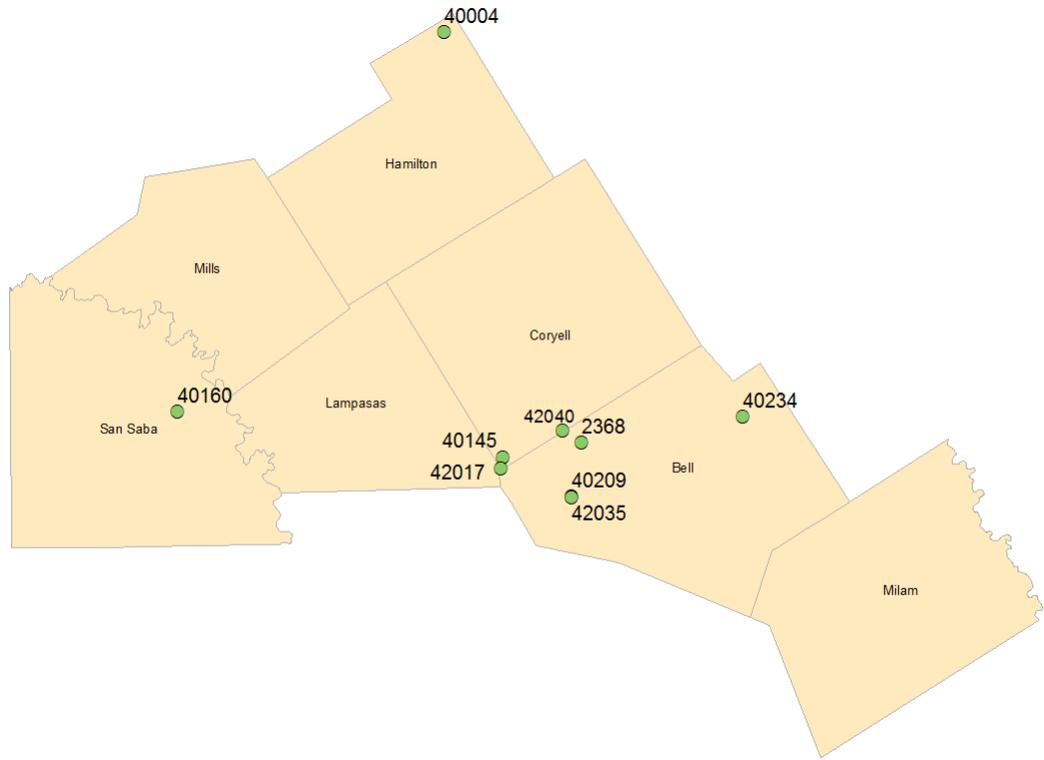
COG 22: Texoma Council of Governments—Processing Facility Locations



COG 22: Texoma Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
22	1030	City of Gainesville Transfer Station	Cooke	5TS	29,530
22	1136	City of Sherman Transfer	Grayson	5TS	11,041

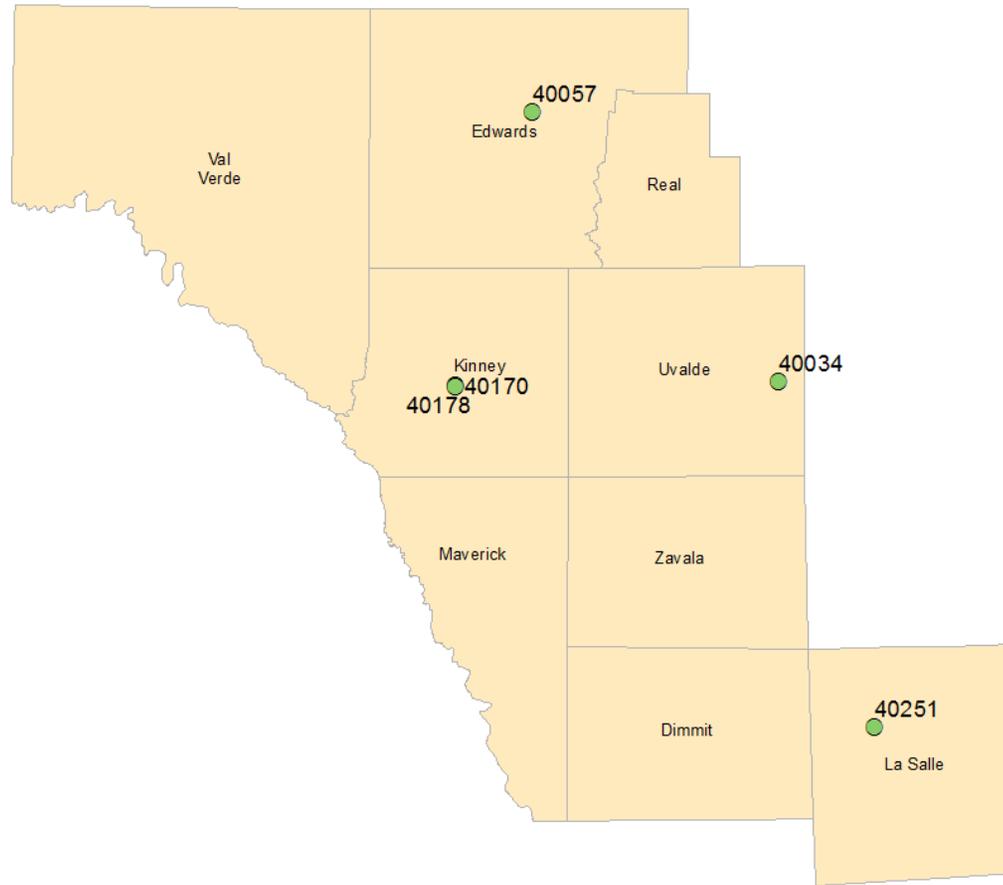
COG 23: Central Texas Council of Governments—Processing Facility Locations



COG 23: Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
23	2368	S & M Vacuum & Liquid Waste Processing Facility	Bell	5GG	4,131
23	40209	Killeen Transfer Station	Bell	5TS	100,718
23	40234	Stericycle Temple	Bell	5TS	429
23	42035	Bell County WCID 1 Regional Compost Facility	Bell	5RC	7,464
23	40145	City of Copperas Cove Transfer Station	Coryell	5TS	22,997
23	42017	City of Copperas Cove Compost Facility (facility reported all incoming brush as diverted to Bell County WCID 1 Compost facility; no composting occurred on-site in 2016)	Coryell	5RC	0
23	42040	Fort Hood Biotreatment Facility	Coryell	5RC	587
23	40004	City of Hico Transfer Station	Hamilton	5TS	32
23	40160	City of San Saba Transfer Station	San Saba	5TS	3,754

COG 24: Middle Rio Grande Development Council—Processing Facility Locations

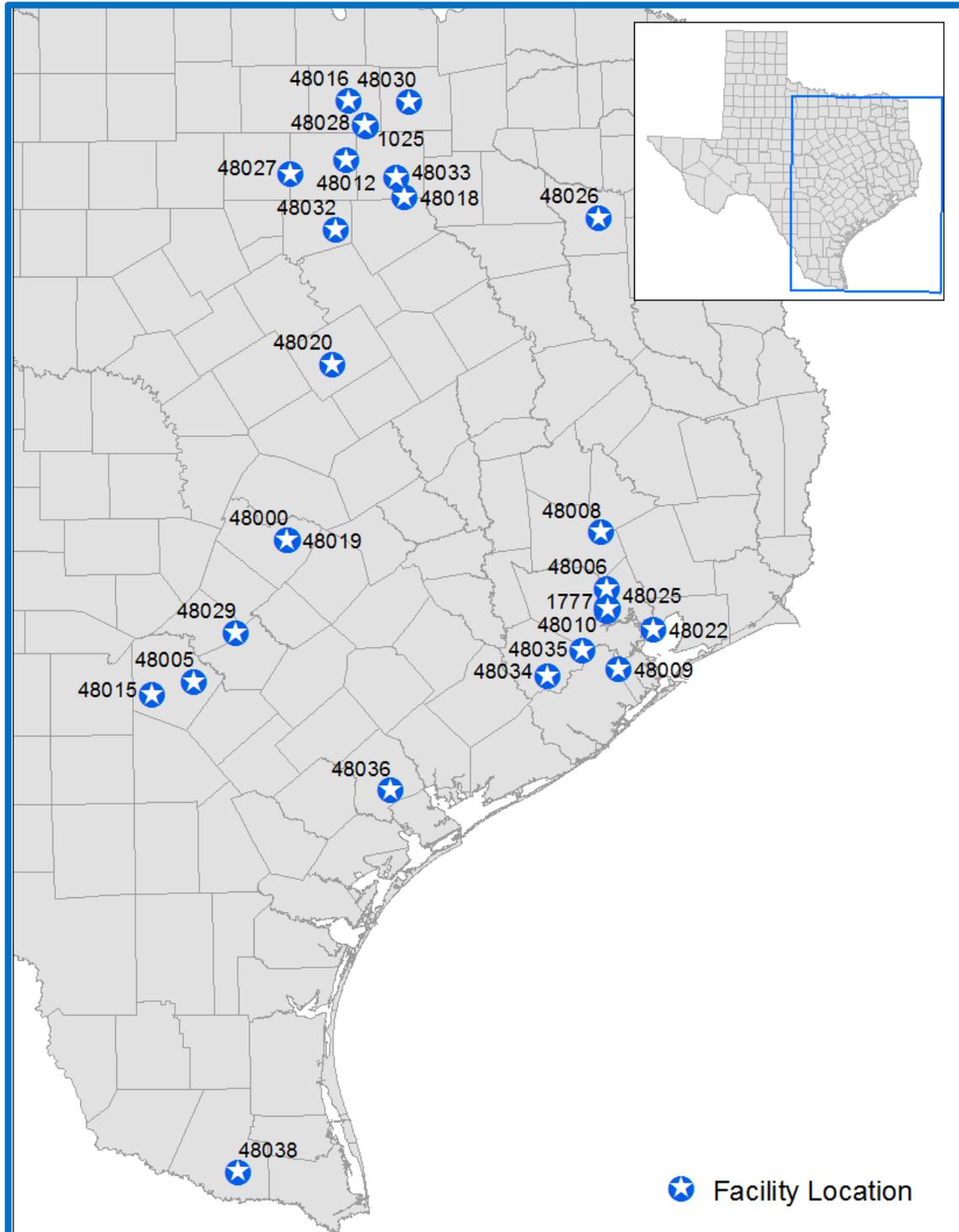


COG 24: Middle Rio Grande Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2016 Tons
24	40057	City of Rock Springs Transfer Station	Edwards	5TS	841
24	40170	City of Brackettville Transfer Station	Kinney	5TS	3,640
24	40178	Fort Clark Springs Transfer Station	Kinney	5TS	163
24	40251	City of Cotulla Transfer Station	La Salle	5TS	42
24	40034	City of Sabinal Transfer Station	Uvalde	5TS	125

Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use

Locations of Facilities Recovering Landfill Gas for Beneficial Use



The table included in this section represents the active gas recovery (Type 9GR) facilities data reported for 2016. The table is organized by COG Region and county. All values are rounded to the nearest whole number.

Key for Landfill Gas Recovery Facilities Data Table

Abbreviation/Column Heading	Description
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 year 2016
Gas Distributed Off-site	Estimated gas distributed off-site from the facility in fiscal year 2016
Power Generated & Sold	Estimated gas generated and sold by the facility in fiscal year 2016
Power Generated & Used	Estimated gas generated and used on-site by the facility in fiscal year 2016
ft ³	standard cubic feet
kWh	kilowatt hour

List of Facilities Recovering Landfill Gas for Beneficial Use

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
4	48030	McKinney Landfill	Collin	568A	0	0	9,338,015	9,464,158
4	48018	Waste Management Skyline Landfill	Dallas and Ellis	42D	1,029,004,000	0	48,503,059	1,908,121
4	48033	McCommas Bluff LFG Processing Facility	Dallas	62	4,239,551,000	2,172,772,000	0	0
4	1025B	DFW Recycling and Disposal Facility	Denton	1025B	2,316,030,890	0	2,183,602	90,884,965

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
4	48016	City of Denton Landfill	Denton	1590A	344,184,764	0	12,866,331	7,498
4	48028	Camelot LFGTE Facility	Denton	1312A	0	0	26,613,029	579,696
4	48032	IESI Turkey Creek Landfill	Johnson	1417B	936,151,000	456,659,000	0	0
4	48012	Landfill Gas Processing Plant	Tarrant	358B	618,408	618,408	0	0
4	48027	Westside Landfill Gas to Electric Facility	Tarrant	1019A	735,504,000	0	36,851,196	1,460,014
6	48026	Greenwood Farms Landfill	Smith	1972A	723,738,000	353,043,000	0	0
11	48020	City of Waco Landfill	McLennan	948A	198,502,000	0	0	0
12	48000	Sunset Farms Gas Recovery Facility	Travis	1447A	346,801,578	0	12,496,396	1,048,282
12	48019	Austin Community Landfill Power Station	Travis	249D	1,316,058,000	0	47,180,134	2,354,666
16	48035	Blue Ridge Landfill Gas Compressor Station	Brazoria	1505A	833,716,571	382,555,530	0	0
16	48022	Baytown LFGTE Facility	Chambers	1535B	0	0	10,679,988	15,369,300
16	48034	Fort Bend Landfill Gas Treatment Facility	Fort Bend	2270	1,185,390,000	578,239,000	0	0
16	48009	Coastal Plains LFGTE Facility	Galveston	1721A	0	0	35,981,917	38,802,500
16	1777	McCarty Road Landfill Gas Recovery Facility	Harris	261B	2,461,159,058	1,323,389,000	0	0
16	48006	Atascocita LFGTE Facility	Harris	1307D	0	0	71,942,628	75,773,100
16	48010	Blue Bonnet LFGTE Facility	Harris	1279	0	0	3,653,640	3,951,500
16	48025	Ameresco McCarty Energy	Harris	261B	1,175,089	1,175,089	0	0
16	48008	Security Landfill RDF	Montgomery	1752B	0	0	25,380,793	26,102,800

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
17	48036	City of Victoria Landfill Gas Treatment Facility	Victoria	1522A	274,950	274,950	0	0
18	48005	Tessman Road Landfill Gas Power Station	Bexar	1410C	1,463,624,471	0	59,371,399	4,396,922
18	48015	Covel Gardens Landfill Gas Power Station	Bexar	2093B	1,519,038,797	0	59,704,384	3,704,015
18	48029	Mesquite Creek LFGTE Facility	Comal	66B	605,064,000	0	25,270,724	745,049
21	48038	Edinburg Landfill Gas Treatment Facility	Hidalgo	956B	229,520,000	111,961,000	0	0

MSW Waste and Material Type Descriptions

Descriptions of MSW Waste and Material Types

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 or 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.
Litter	Rubbish and putrescible waste.

Waste/Material Type	Description
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	Nonhazardous Industrial Waste. Includes Class 1 nonhazardous, Class 2, and 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.

Waste/Material Type	Description
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.
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 trimmings	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.