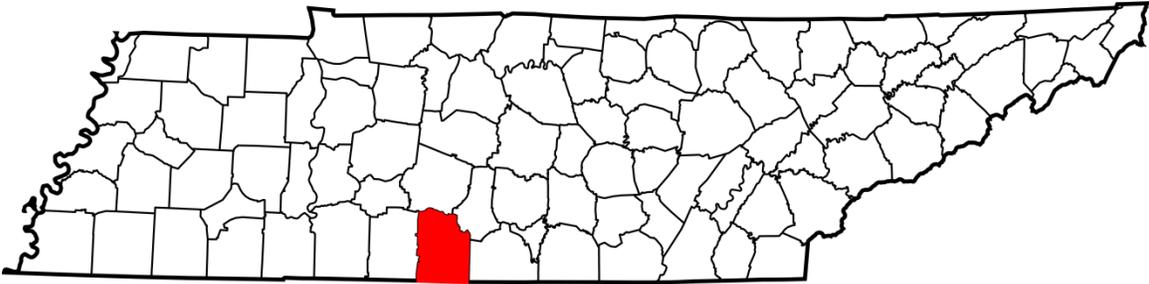


Giles County, TN



Solid Waste Needs Assessment

Prepared by:
The South Central Tennessee Development District
April 30, 2012



as required by The Solid Waste Management Act (T.C.A. §68-211-811).

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Solid Waste Management
401 Church Street, 8th Floor
Nashville, TN 37243-1533

SECTION 1: Provide a table and chart of the region's population during the past ten (10) years with a projection for the next five (5) years. Provide a breakdown by sub-table and sub-chart, or some similar method to detail county and municipality populations. Considering the trends, discuss the affect on the solid waste infrastructure needs over the next five (5) years.

Giles County, Demographics, Statistics, and General Information

Giles County is located in the south central section of Tennessee bordering Alabama along its south border. As of 2010, the population was 29485. Its county seat is Pulaski. Giles County is enriched with Tradition, Vision, Achievement and Service. Giles County is located 58 miles south of Nashville, TN and 47 miles north of Huntsville, AL, two of the South's most progressive cities. Its topography is beautifully contoured with rocks and high winding ridges in the north and stretches deep into the fertile valleys of Richland Creek and in the south.

Giles County is one of Tennessee's southern tiers of counties and abuts the Alabama border. Giles County was created in 1810 by an act of the General Assembly on November 14, 1809. It was formed out of Maury County and is bounded on the north by the counties of Maury and Marshall, east by the counties of Marshall and Lincoln, south by the State of Alabama, and west by Lawrence County and has an area of 600 square miles. The new county, "Giles," was named for Governor William Branch Giles of Virginia.

The vicinity of Pulaski was the site of a number of skirmishes during the Franklin–Nashville Campaign of the American Civil War. In 1863, Confederate Sam Davis was hanged in Pulaski by the Union Army for espionage.

In 1865, during the early days of the Reconstruction Era, the city became the birthplace of the first Ku Klux Klan, founded by six Tennessee veterans of the Confederate Army. John C. Lester, John B. Kennedy, James R. Crowe, Frank O. McCord, Richard R. Reed, and J. Calvin Jones established the KKK in Pulaski on December 24, 1865.

Martin Methodist College was founded in Pulaski in 1870.

Milky Way Farm in Giles County, Tennessee, is the former estate of Franklin C. Mars, founder of Mars Candies. The property is named for the company's Milky Way candy bar. During the Great Depression, the estate was the largest employer in the county. The estate is listed on the National Register of Historic Places as an historic district; its manor house is now a venue for special events.

According to the U.S. Census Bureau, the county has a total area of 611 square miles (1,582.5 km²), of which 0.04% is water.

TABLE 1.1 Giles County Historic and Projected Population Trends (2001 thru 2016)

Year	Others	Pulaski	Giles County
2001	21576	7871	29447
2002	21578	7872	29450
2003	21660	7793	29453
2004	21662	7794	29456
2005	21743	7716	29459
2006	21745	7717	29462
2007	21825	7640	29465
2008	21827	7640	29468
2009	21907	4564	29471
2010	21615	7870	29485
2011	21669	7875	29544
2012	21703	7900	29603
2013	21737	7925	29662
2014	21772	7950	29722
2015	21806	7975	29781
2016	21841	8000	29841

Sources: Historic data are from the U.S. Census Bureau. Projections are based on data from the U.S. Census Bureau Fact Finder.

Giles County's population has been stagnant over the past ten years with an average increase by year of ~0.001%. Population trends are projected to remain stagnant over the next five years with little fluctuation in employment levels. Giles County's population has basically seen little movement since 1970 as Giles has only net gained ~5000 residents in the last 40 years.

Economic Impact of Industry:

MANUFACTURING/EMPLOYMENT

Number of Plants: 39

Average Annual Employment: 2439

Annual Average Wage: \$28370

Major Industry In Area: Frito Lay 511 employees

Giles County Top 10 Private Sector Employers

Corporation	Product	Employees
<u>Frito-Lay</u>	Snack Foods	511
<u>Johnson Controls</u>	Auto Seating	305
<u>Timken</u>	Ball Bearings	256
<u>Magotteaux-Pulaski</u>	Grinding Media	217
<u>Saargummi TN</u>	Auto Weather Seals	131
<u>Richland, LLC</u>	Custom Metal Fabrication	99
<u>Tenneplas</u>	Plastic Molded Auto Parts	98
<u>Valley Packaging</u>	Corrugated Containers	97
<u>Vertafore</u>	Insurance Related Computer Software	93
<u>Magneti Marelli</u>	Shocks and Struts	64

Giles County's close proximity to Nashville, Tennessee and Huntsville, Alabama allows residents to live in rural Tennessee and to commute to larger cities for employment.

Giles County has a strong manufacturing base and is supplemented by farming. Large farms and crops are scattered about the county. Its rich and varied soils are suitable for a variety of crops, including corn, cotton, hay, and tobacco.

Trends and Infrastructure Needs:

The municipal solid waste generated in Giles County is projected to remain stable through the next five years. Population trends have remained stable in Giles County resulting in predictable solid waste stream tonnage.

The Interlocal Solid Waste Authority (ISWA) exists to provide efficient and cost effective disposal of solid waste and to educate the citizens within the region on waste reduction and recycling practices. The ISWA coordinator is Carol Fulmer. ISWA will potentially gain two additional members in Moore and Bedford counties, applications are awaiting approval. ISWA will then become a five (5) county region with considerable resources to educate the public in the benefits of recycling and waste diversion.

SECTION 2:

Provide a table and chart showing the region's economic profile for the county and its municipalities for the last ten (10) years with a projection for the next five (5) years. This can be accomplished by using the following economic indicators: Taxable sales, property tax generation, and per capita income, Evaluation by break down of each economic sector, County or municipal budgeting information, and other commonly accepted economic indicators.

Year	Workforce Data				Per Capita Income	Goods Produced			Service					Property Tax	Retail Sales
	Total	Employed	Unemployed	% Unemp		Total	Manuf	Other	Total	Trade	Health	Govt	Other		
2002	12492	12055	437	3.5%	\$ 17,178	1358	996	362	11169	1427	2170	1334	6238	\$ 12,348,892	\$ 286,163,878
2003	12675	12193	482	3.8%	\$ 17,529	1366	997	369	11282	1441	2192	1348	6301	\$ 12,536,946	\$ 289,054,422
2004	12800	12314	486	3.8%	\$ 17,887	1374	998	376	11396	1456	2214	1361	6364	\$ 12,727,864	\$ 291,974,163
2005	12925	12369	556	4.3%	\$ 18,252	1383	999	384	11511	1470	2237	1375	6429	\$ 12,921,689	\$ 294,923,397
2006	13050	12476	574	4.4%	\$ 18,624	1392	1000	392	11627	1485	2259	1389	6494	\$ 13,118,466	\$ 297,902,422
2007	13233	12571	662	5.0%	\$ 19,004	1401	1001	400	11744	1500	2282	1403	6559	\$ 13,318,240	\$ 300,911,537
2008	13358	12490	868	6.5%	\$ 19,392	1410	1002	408	11863	1515	2305	1417	6625	\$ 13,521,056	\$ 303,951,047
2009	13541	12458	1083	8.0%	\$ 19,788	1419	1003	417	11983	1531	2328	1432	6692	\$ 13,726,960	\$ 307,021,260
2010	13666	11740	1720	12.6%	\$ 19,986	1429	1004	425	12104	1546	2352	1446	6760	\$ 13,936,000	\$ 313,287,000
2011	13791	11855	1936	8.7%	\$ 20,186	1450	1019	431	12165	1554	2364	1453	6794	\$ 14,005,680	\$ 314,853,435
2012	13852	12716	1136	8.2%	\$ 20,186	1472	1034	438	12225	1561	2376	1460	6828	\$ 14,075,708	\$ 316,427,702
2013	13913	12827	1085	7.8%	\$ 20,287	1494	1050	444	12286	1569	2387	1468	6862	\$ 14,146,087	\$ 318,009,841
2014	13974	12996	978	7.0%	\$ 20,388	1517	1066	451	12348	1577	2399	1475	6896	\$ 14,216,817	\$ 319,599,890
2015	14035	13053	982	7.0%	\$ 20,490	1539	1082	458	12410	1585	2411	1483	6931	\$ 14,287,901	\$ 321,197,889
2016	14097	13110	987	7.0%	\$ 20,592	1563	1098	465	12472	1593	2423	1490	6965	\$ 14,359,341	\$ 322,803,879

Sources: Workforce Data, TN Dept of Labor & Workforce Development; Per Capita Income, US Bureau of Economic Analysis; Retail Data, TN Dept of Revenue; Property Tax information from Giles County Budget Office, US Census Bureau of Labor Statistics

SECTION 3:

Elaborate on the region's solid waste stream. Compare the current waste stream with trend anticipated over the next five (5) years, and discuss how this new total will be handled. Include in this discussion how problem wastes like waste tires, used oil, latex paint, electronics and other problem wastes are currently handled and are projected to be handled in the next five (5) years. What other waste types generated in this region require special attention? Discuss disposal options and management of these waste streams as well as how these waste streams will be handled in the future. Include in this discussion how commercial and industrial wastes are managed. Also, provide an analysis of any wastes entering or leaving the region, noting the source and amounts of such wastes.

Giles County Solid Waste Stream

The estimated percentages of the total material placed into the waste stream are:

- Residential: 60%
- Commercial: 20%
- Institutional: 5%
- Industrial: 15%

Giles County and ISWA continue to provide a high level recycling program and are continually investigating resources to expand collection and diversion activities. Inter Local Solid Waste Authority (ISWA) remains proactive in the implementation to the solid waste plans for Giles County. The region continues to strive to meet diversion / waste reduction goals set forth by the State of Tennessee.

Site Name(s)	Annual Tons Disposed by Giles County Region, 2011	Current Landfill Capacity (daily throughput)	Maximum Capacity	Projected Life of Facility
Giles County Solid Waste 270 Maxwell Hill Road Pulaski, TN 38478	18638.0	~100 tons	N/A	10 to 15 years

Recycling Tonnage by Name, Sector, Source, 2011

Material Name	Residential All Programs	Commercial All Programs	Industrial All Programs	Other All Programs	Total
Corrugated	162.11	31.55	56.80		250.46
Misc. Paper	93.59	1.69	9.77		105.05
Electronics	7.84		2.69		10.53
Lead-Acid Batteries			.10		.10
Mixed #1 and #2 plastic	46.45	12.52	.02		58.99
C&D Debris	2035.92	25.00			2060.92
Mixed Metals	11.71	9.04	2448.70		2469.45
Oil Filters					
Tires	236.86	44.66			281.52
Antifreeze					
Glass	24.92				24.92
Used Oil			269.50		269.50
Other recyclables	3.60	169.35	330.58		503.53
Totals	2623.00	293.81	3118.16		6034.97

Solid Waste Program	Existing Regional Solid Waste Programs	Future Regional Solid Waste Programs	Tennessee Mandated Plan
Residential Solid Waste Collection	Giles County provides one (1) Convenience Center to residents.	Maximize the efficiency of collection of waste from each collection site and maintain existing equipment. Additional convenience centers are needed in the south/southeast and west/northwest sections of Giles County.	County to provide CC Sites for residents according to population or service area, maintain required design and operational standards.
Recycling	Paper, plastic, metals, batteries, electronics, paint	Increase business and school recyclables collection. Centralized recycle center allows public and private access.	County to provide three convenience centers.
Waste Reduction	In 2011 the diversion rate for Giles County, TN was 24.46%.	The Giles County Solid Waste Department is committed to develop a new plan that will enable them to meet the 25% reduction rate.	Achieving 25% waste reduction goal each year.
Problem Waste Management	Waste tire disposal continues to be problematic for Giles County.	Disposal / revenue generation from waste tires will be studied by ISWA and the Giles County SW Department.	County has restrictions related to disposal of tires, paint cans, refrigerators, freezer, fluids, and batteries. County to provide HHW collection events, when state scheduling is provided.
Public Education & Information	Interlocal Solid Waste Authority administers several programs for recycling and SW diversion education. Programs are designed for the general population from school age children to adults.	Expansion of recycling is a must to create a culture of Reduce, Reuse, and Recycle.	Region to develop and implement solid waste management action plan for adults and children.
Disposal	The Giles County SW Department transports waste via Allied Waste to the Middlepoint Landfill in Murfreesboro, TN. \$29.74/NT	Giles County will continue to partner with Allied Waste to transport municipal solid waste to Class I Landfill Middlepoint Landfill in Rutherford County, TN.	Region to assure 10-year disposal capacity.
Planning	Giles County continues to partner with Allied Waste and Interlocal Solid Waste Authority with planning, forecasting, and reaction plans.	Giles County continues to utilize South Central Tennessee Development District as a resource for Annual Progress Reports and updates to the state of Tennessee.	Region to provide Annual Progress Reports, 5-Year Plan Updates, other reporting requirements as needed.

SECTION 4:

Provide a detailed description of the waste collection system in the county and each municipality, including a narrative of the life cycle of solid waste from the moment it becomes waste (loses value) until it ceases to be a waste by becoming a useful product, residual landfill material or an emission to air or water. Label all major steps in this cycle noting all locations where wastes are collected, stored or processed, along with the name of operators and transporters for these sites.

Municipal solid waste is collected in Giles County in a variety of ways:

- 1) Collected at Solid Waste Center @ 270 Maxwell Hill Road
- 2) Curbside pickup in Pulaski \$9.20 fee
- 3) Private haulers in rural Giles County
- 4) Burn pits / barrels on small rural farms.

There only one convenience center in Giles County for rural residents to dispose of their solid waste. The solid waste collected at the one convenience center is transferred at the Giles County Transfer Station located at 270 Maxwell Hill Road near Pulaski. The transfer station is operated by Giles County Solid Waste and Allied Waste; Allied then hauls the solid waste to Middlepoint Landfill in Rutherford County, TN for ~\$30/NT. Some recyclables are collected at the convenience centers; however citizens are encouraged to transport recyclables to the privatized recycle facilities in Giles County.

Richardson Waste Removal collects construction debris in the county and is not offered through regular residential services. Richardson also provides commercial waste collection. Fees are not readily available.

Pulaski Sanitation Department

The City of Pulaski offers curbside collection of garbage, yard waste, and leaves. Scheduled routes offer collection of garbage and yard waste on a weekly basis. The Sanitation Department is responsible for collection of municipal solid waste in Pulaski on a weekly basis. Each household is provided a 90 gallon poly cart that is emptied once a week for a fee of \$9.20 per month.

Recycling in Giles County



*Giles County Recycling Center
302 North 8th Street in Pulaski*



Hours of Operation
Mon. - Fri. 6:00am - 6:00pm Sat. 6:00am - 12:00 noon

Bring Us Your:

NEWSPAPER

MAGAZINES & CATALOGS
(Please remove all plastic wrappers)

CARDBOARD

ALUMINUM CANS
(Please rinse)

TIN CANS
(Please rinse)

#1 (PET) PLASTIC SOFT DRINK BOTTLES
(Please rinse and remove lids)

#2 (HDPE) PLASTIC MILK JUGS
(Please rinse and remove lids)

GLASS: CLEAR - GREEN - BROWN
(Please rinse and remove lids)

QUESTIONS?

Giles County Solid Waste Manager 931-424-7035
Appertain attn: Angela Holly 931-363-8284
www.appertaincorp.com and www.iswarecycle.net



Frequently Asked Questions About Giles County Solid Waste

1. Where is the "dump"?



Giles County no longer has an operating landfill. The facility we now have is called the **Allied Waste Transfer Station** - 264 Maxwell Hill Road about a mile off of Lewisburg Highway (31A). The Transfer Station is open to the public **Monday through Friday: 7:00 AM - 4:00 PM** and **Saturday: 7:00 AM - 12:00 Noon**. The Transfer Station telephone number is (931) 424-4406

ALL LOADS MUST BE COVERED WHEN CROSSING TRANSFER STATION SCALES

- No Liquids - No Paints and/or Thinners - No Explosives or Hazardous Materials -
**No Appliances with Freon Charged Coolants - No Smoking - No Oils

2. I have a few old tires. What can I do with them?

Call the Allied Waste Transfer Station - (931) 424-4406 - and speak with Amanda. There will be a charge for the disposal of your tires.

3. I live outside a municipal area. Is there someone who can pick up my garbage?

YES. The following are private waste haulers.

The County has no control over the areas they cover, the services they provide or the fees they charge.

Kenneth Bates-----1-(931) 433-3761	Ted Burdette ----- 565-3042
Cox Garbage----- 424-3479	Robert Cox ----- 527-3230
Billy Huntley ----- 363-2587	

4. If I change my own oil, what do I do with the old oil?

The following businesses can accept your used oil. Call them for instructions.

Auto Zone	1610 West College Street	363-7691
Advance Auto	918 West College	424-5731
Giles Farmers Co-Op	2070 Elkton Highway	363-2563
Tractor Supply Co. TSC	1640 West College Street	424-9199
Tycon Excavating	2727 Big Dry Creek Road	363-8163
City of Pulaski Street Department	410 Block Street	363-3234

5. What about antifreeze?

Antifreeze can be recycled at *Giles Farmers Co-Op* - 2070 Elkton Highway - 363-2563.

6. What about lead-acid batteries?

Tennessee Valley Recycling, LLC - 821 West College Street in Pulaski - 363-3593 - and *Pulaski Battery Co.* - 207 E. Jefferson St. - 363-2678 - can accept your old lead-acid battery during their regular business hours. Call for instructions.

7. What about Recycling?

Giles County sponsors a recycling drop-off center - located 302 North 8th Street in Pulaski. This center is operated by Appertain Corp. - 363-8284. Hours of Operation: Monday through Friday - 6:00 am - 6:00 PM - Saturday - 6:00 am - 12:00 noon.. This center accepts: NEWSPAPER - MAGAZINES - CARDBOARD - ALUMINUM CANS - TIN CANS - #1 PLASTIC BOTTLES - #2 PLASTIC MILK JUGS - GLASS (clear - green - brown).

7. What about Recycling?

Look on the other side to see the materials recycled at the drop-off center located at 302 North 8th Street in Pulaski and operated by Appertain Corp. 363-8284 Open M-F 6:00 am-6:00 pm Sat 6:00-12:00 noon

8. What about Education?

For a speaker on waste reduction, recycling, or other environmental topics, teacher in-service training, classroom program, educational booths, crafts workshop or other environmental education needs contact the Regional Administrator of Education, Recycling and Waste Reduction for the Interlocal Solid Waste Authority at

(931) 962-9048 or (931)703-2435

This FAQ Sheet is presented as a public service by:

**Interlocal Solid Waste Authority - 487 Joyce Lane - Winchester, Tennessee 37398
Telephone: (931) 962-9048 FAX: (931) 962-1468 Web site www.iswarecycle.net**

Giles County Solid Waste, 270 Maxwell Hill Road, Pulaski, TN 38478 931.424.4406

Hours of Operation

Sunday – Closed

Monday – Friday 7:00 AM – 4:00 PM

Saturday -- 7:00 AM – 12:00 PM

ACCEPTABLE ITEMS

- Newspaper, white paper, junk mail
- Magazines
- Hard and soft cover books
- Plastics 1 & 2 (Look for the triangle with the 1 or 2 inside on the items)
- Aluminum Cans
- Metal food cans
- (Please rinse the above three items before recycling)
- Plastic shopping bags
- Cardboard
- Electronic items - computers, monitors, etc.
- Paint and latex, if it is less than 1/4 gal, can be air dried and sent to the landfill since it is not hazardous.

UNACCEPTABLE ITEMS

- Cleaners, strippers, varnish, etc.
- Household trash
- Clothing
- Glass
- Styrofoam
- Furniture and appliances

Potential waste generation can be reduced at the source through measures, such as educating citizens about the three R's (reduce, reuse, recycle). Education has been identified as the number one (#1) factor in increasing diversion rates in communities around the world. Along with reduction measures from citizens, the commercial and manufacturing sector can also reduce residual waste by modifying internal operations to efficiently manage the waste.

Tennessee Valley Recycling, LLC was established in February 2000 through the combination of Denbo Iron & Metal Co. Inc. of Decatur, Alabama (founded 1907), L. Miller & Son Inc. of Huntsville, Alabama (founded 1918), Denbo Scrap Materials Inc. of Pulaski, Tennessee (founded 1923), Denbo Metal Recovery LLC of Pulaski, Tennessee, and several other related companies. All these firms trace their origins to the Tennessee Poultry & Hide Co., operated by Benjamin Denbo, Isaac Denbo, Jacob Bernstein and Louis Miller, all Eastern European immigrants to America.

Now joined together, these firms represent over 375 years of experience in the metals recycling industry. Tennessee Valley Recycling is owned, managed, and operated by the descendants of the four founders. As the name suggests, Tennessee Valley Recycling area of operation encompasses the entire Tennessee River Valley. TVR provides metal recycling and scrap management services to hundreds of industries—large and small—throughout this region. TVR operates full-service scrap metal processing facilities, including two large auto shredding plants, in Decatur, Huntsville, and Sheffield, Alabama; and Pulaski, Tennessee. TVR has extensive baling and shearing capabilities.

Pulaski Division
821 West College St
Pulaski, TN 38478
931-363-3593



Private haulers in rural Giles County such as **Richardson Waste Removal of Fayetteville, TN** and **Cox Garbage Service, 1100 Ragsdale LN, Pulaski, TN 38478** offers weekly trash services to residential, commercial, and industrial clients. Richardson has been providing service since 1963 in Franklin County. Richardson Waste Removal can provide residential garbage removals, roll-off containers for construction sites, general clean ups, and recycling of construction materials.



Richardson Waste Removal:

- Weekly trash service
- Residential garbage removal in Lincoln, Franklin, Giles
- Roll-off containers for construction, demo debris, commercial, industrial, and general clean up
- Roll-off containers available in Coffee Bedford, Marshall, Moore counties in Tennessee
- Recycling of construction materials
- New customers receive a 96 gallon trash can when you sign up for Easy Bill Pay

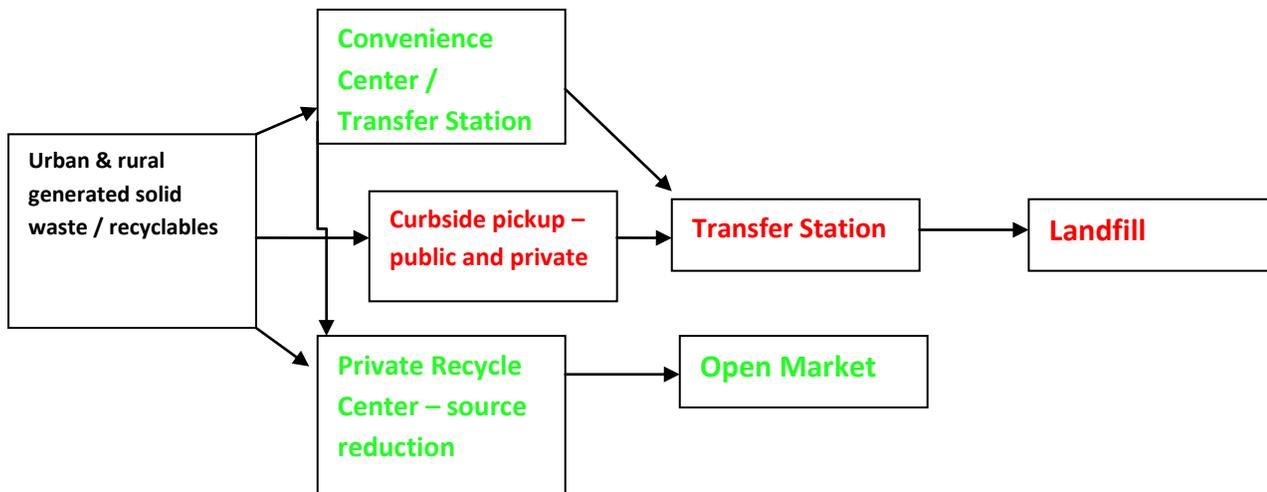
Interlocal Solid Waste Authority

ISWA was established in 1991 and is comprised of Franklin, Giles, and Lincoln counties. Bedford and Moore counties have applied for admission to ISWA (admission pending), the cities within the listed counties, and the City of Tullahoma. ISWA's Mission Statement is "to provide efficient and cost effective disposal of solid waste and to educate the citizens within the region on waste reduction and recycling practices.

Curbside pickup of recyclables are collected in Winchester on the 2nd and 4th Wednesday of each month, while pickup in Cowan is collected on the 1st and 3rd Wednesday of each month. Convenience centers collect metal, paper, and plastic. The Franklin County Recycle Center is located at 487 Joyce Lane, Winchester, TN.

ISWA holds the contract for waste disposal within the region. ISWA also has the contract for the mulching of yard waste. The region also provides an education program for the schools and the general public on waste reduction and recycling.

Waste Stream – Giles County (red = no value, green = reusable)



Convenience Centers

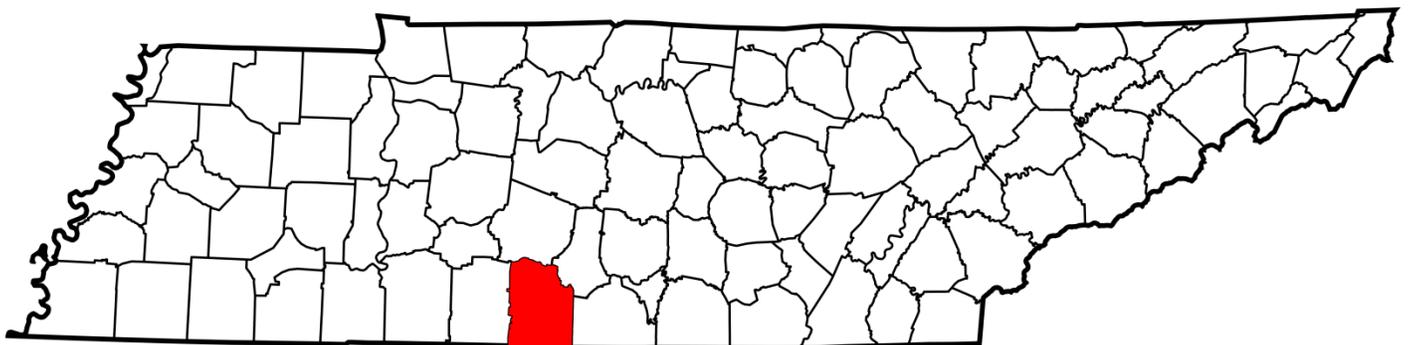
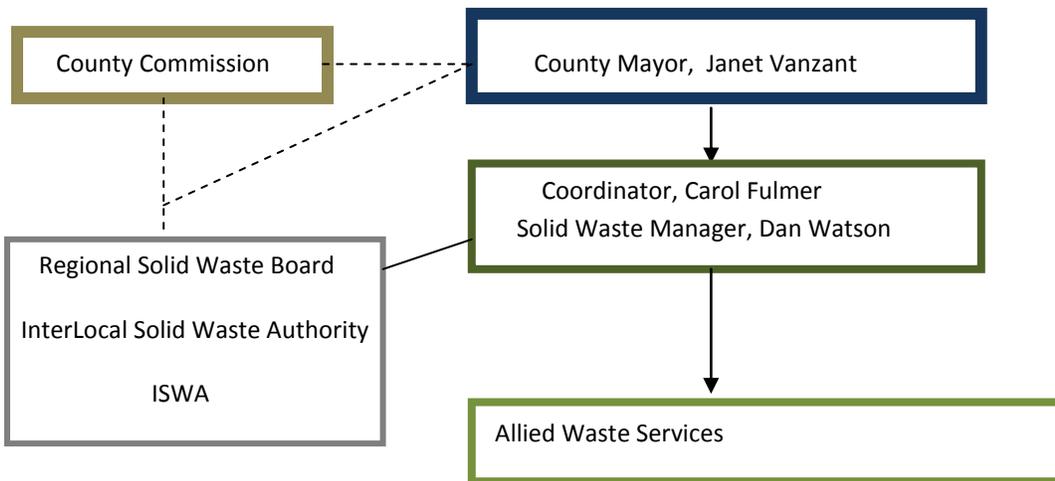
270 Maxwell Hill Road, Pulaski, TN 38478



SECTION 5:

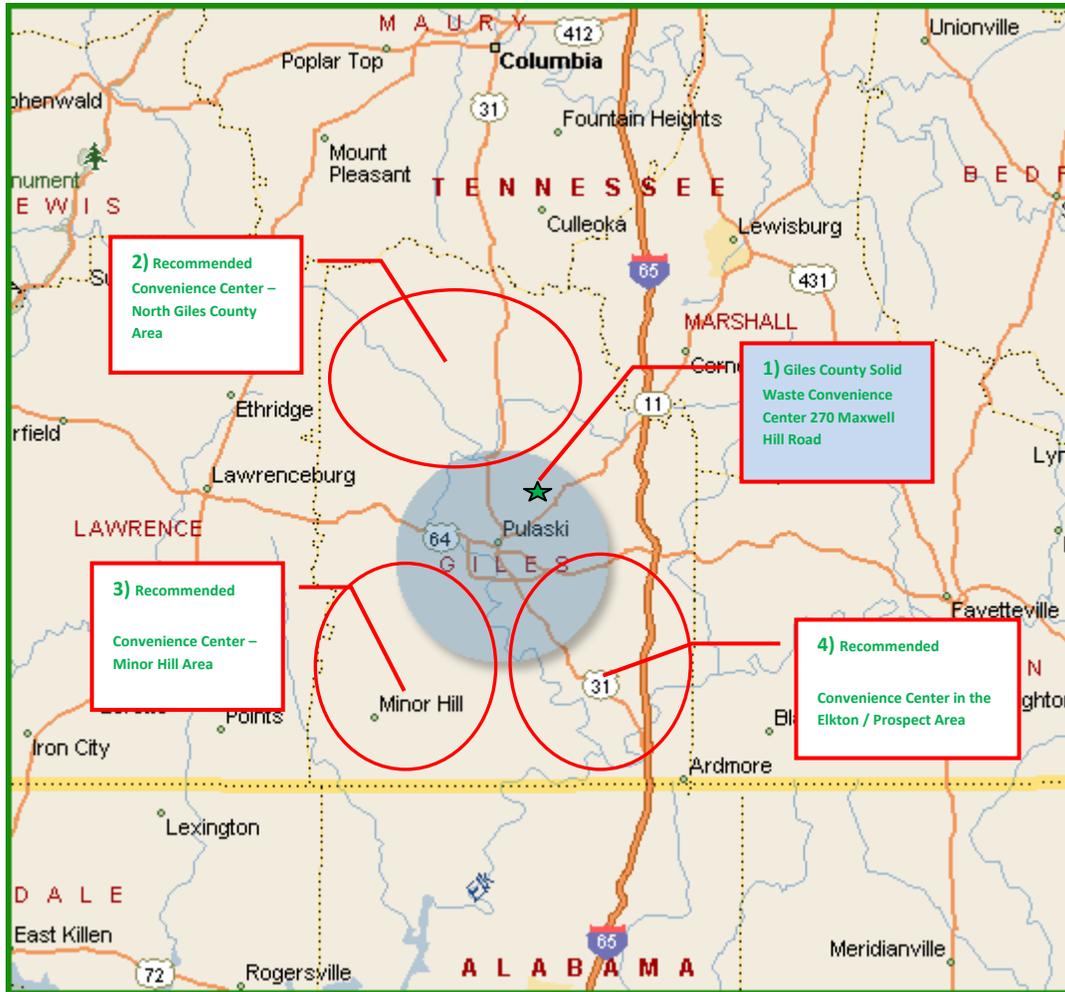
Provide organizational charts of each county and municipality's solid waste program and staff arrangement. Identify needed positions, facilities, and equipment that a fully integrated solid waste system would have to provide at a full level of service. Provide a scale county level map indicating location of all facilities including convenience centers, transfer stations, recycling centers, waste tire drop-off sites, used oil collection sites, paint recycling centers, all landfills, etc. Identify any short comings in service and note what might be needed to fill this need.

Regional Solid Waste Organizational Structure



Municipal Solid Waste Facilities in Giles County, TN

Giles County Map



Convenience Centers

- 1) 270 Maxwell Hill Road, Pulaski, TN 38478
- 2) Recommended – North Giles Area
- 3) Recommended – Minor Hill Area
- 4) Recommended – Prospect/Elkton

The Giles County Solid Waste Department is staffed and at this time does not anticipate adding additional positions. Any adjustments to the operations of the county collection sites will be assessed by the County Mayor, County Commission and the Solid Waste Board to discuss any variables that affect the waste collection. In order to better serve the citizens of Giles County and to accurately capture the solid waste tonnage generated in Giles County... two or three additional convenience centers are recommended. These convenience centers should be strategically located in order to serve each quadrant / population centers of Giles County. The lack of easy access / disposal of solid waste and recyclables results in the legacy practice of burning trash in the back yard, barn yard, or ravines in rural areas of Giles County.

SECTION 6:

Describe current attitudes of the region and its citizens towards recycling, waste diversion, and waste disposal in general. Where recycling is provided, discuss participation within the region. Indicate current and ongoing education measures to curb apathy or negative attitude towards waste reduction. Are additional measures needed to change citizen's behaviors? If so, what specific behaviors need to be targeted and by what means?

Giles County in general has a weak recycling program. The public in Giles County is generally accepting to the challenge of reducing, reusing, and recycling. However, with the absence of "convenience"... recycling is greatly reduced in the population centers of Giles County. ISWA is proactive in the community and the school system to educate and to promote good recycling habits.

Recycling in rural areas is somewhat limited in that curbside recycling is not available. Breaking the old culture of tossing recyclables in the trash can is still a major obstacle to overcome. The idea of making recycling easy is the only way to get significant participation from the population as a whole.

Classroom training and special events are excellent venues to create the culture change. ISWA participates in these types of activities to promote the 3R's. Drop off centers at high traffic areas are needed in Pulaski, Minor Hill, Elkton, and North Giles County, however without funding, this situation will continue to be an obstacle in waste diversion for Giles County.

SECTION 7:

The Solid Waste Management Act of 1991 requires all regions to reduce the amount of waste going into Class I landfills by 25%. Amendments to the Act allow for consideration of economic growth, and a “qualitative” method in which the reduction rate is compared on a yearly basis with the amount of Class I disposal. Provide a table showing the reduction rate by each of these goal calculation methodologies. Discuss how the region made the goal by each methodology, or why it did not. If the Region did not meet the 25% waste reduction goal, what steps or infrastructure improvements should be taken to attain the goal, and to sustain this goal into the future.

TABLE 7.1 Measurement of Regional Waste Reduction Goal

County	Waste Reduction Goal Calculation Method			
	Compared to Base Year Interlocal	Population Ratio	Economic-Population Ratio	Qualitative- Real Time
Giles	N/A	N/A	N/A	24.48%
ISWA	13%	13%	7%	31%

Giles County fell slightly short of the 25% mandated reduction in solid waste in 2010. Industry reports to Interlocal Solid Waste Authority their recycle numbers which greatly reduces the tonnage to landfills.

SECTION 8:

TABLE 8.1:

Site Name(s)	Annual Tons Disposed by Giles County Region, 2011	Current Landfill Capacity (daily throughput)	Maximum Capacity	Projected Life of Facility
Giles County Solid Waste Department 270 Maxwell Hill Road Pulaski, TN 38478	18638.11	~ 125-150 tons	n/a	15 to 20 years

TABLE 8.2

Provider of Service	Service Area	Available Service for 2011 Population Total	Frequency of Service (Weekly, Bi-weekly, on call, etc.)	Estimated Annual Tons Collected	Type Service (Curbside, Convenience Center, Green Box) or Door to Door
270 Maxwell Hill Road Pulaski, TN 38478	Giles County	~29000	Drop off	~20000 NT	Convenience Center / Transfer Station

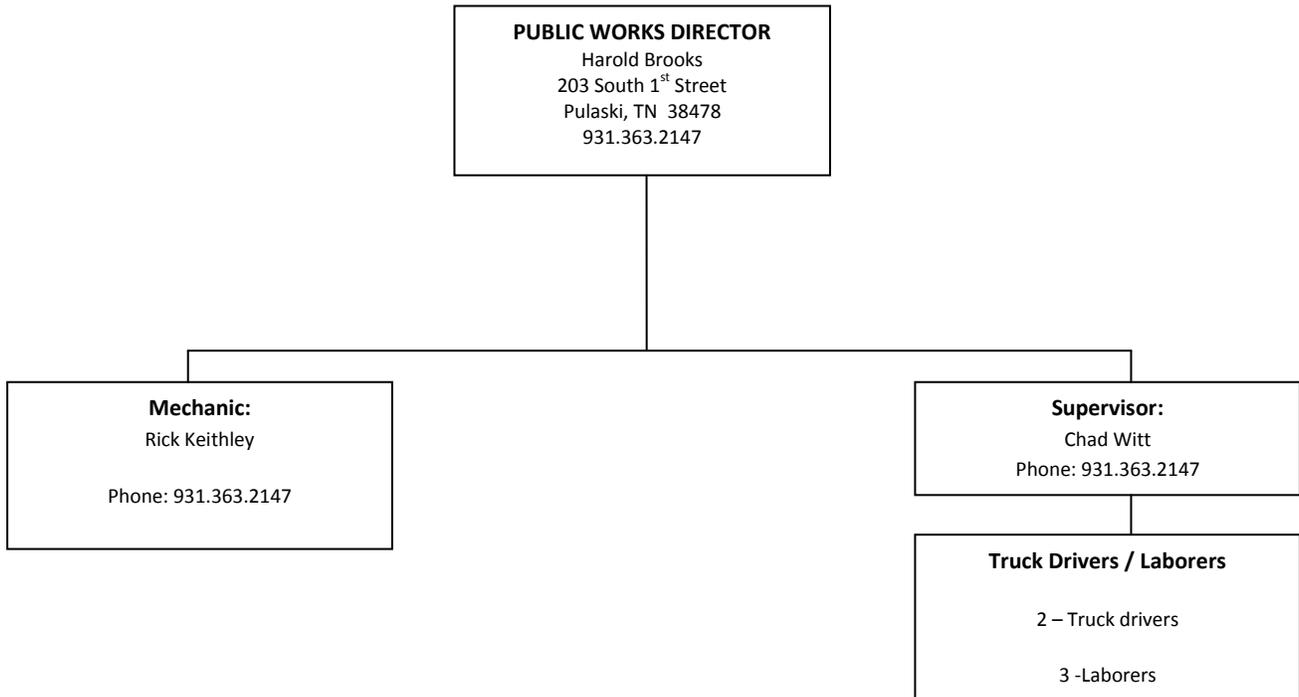
Giles County is not adequately staffed nor has collection facilities / capabilities to create much of a diversion effort to reduce landfill input. Partnering with Allied Waste at \$30/NT is a cost effective solution for transporting solid waste to Middlepoint in Murfreesboro.

ISWA's interaction with schools and businesses is a positive influence in the conditioning of the public to grasp the necessity of recycling. Future diversion attempts will hinge on ISWA's effectiveness in working with the general public, commercial entities, and industry.

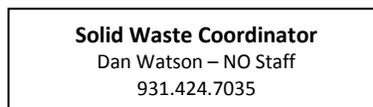
Private haulers in Giles County include Allied Waste, Richardson Waste Removal, Waste Management, BFI, and Cox Garbage Service. Allied Waste hauls the solid waste from the Giles County Transfer Station to Middlepoint in Murfreesboro. Richardson Waste Removal provides a varied service of solid waste, construction debris, and brush removal in rural Giles County.

Culture change is slow to come by as some rural resident's still burn trash on private farms or use as backfill on private acreage. This is by no means suitable disposal, but still a reality as an obstacle to procure accurate tonnage generated by Giles Countians.

Pulaski Public Works Department



Giles County Solid Waste Department



SECTION 9:

Complete the following chart and discuss unmet financial needs to maintain current level of service. Provide a cost summary for current year expenditures and projected increased costs for unmet needs.

TABLE 9:1

Expenditures			
Description	Present Need \$/year	Unmet Needs \$/year	Total Needs (Present + Unmet) \$/year
Salary and Benefits			
Transportation/hauling			
Collection and Disposal Systems			
Equipment			
Sites			
Convenience Center			
Transfer Station	\$42994.00		\$42994.00
Recycling Center	\$33600.00		\$33600.00
Waste Tire Pickup	\$42994.00		\$42994.00
Landfills			
Site			
Operation			
Closure			
Post Closure Care			
Administration (supplies, communication costs, etc.)			
Education			
Public			
Capital Projects			
Total Expenditures	\$115384.00	\$0.00	\$115384.00
Revenue			
Host agreement fee			
Tipping fees			
Property taxes	\$100401.00	\$3971.00	\$104372.00
Sales tax			
Surcharges			
Disposal Fees			
Collection charges			
Industrial or Commercial charges			
Residential charges			
Convenience Centers charges			
Transfer Station charges			
Other sources: grant / Sale of recyclables	\$15600.00	(\$3529.00)	\$12071.00
Total Revenue	\$116001.00	(\$558.00)	\$115443.00

SECTION 10:

Identify all current revenue sources by county and municipality that are used for materials and solid waste management. Project future revenue needs from these categories and discuss how this need will be met in the future. Use Chart 9 as an example to present data.

Property Tax Charges:	\$100401.00
Grant:	\$ 15600.00

Revenues will grow with continued improvement in the recyclable markets. Property tax increases are never popular but are by far the largest revenue stream for Giles County Solid Waste. Increased taxes are inevitable but are tabled at this time by the county commission.

SECTION 11:

Discuss this region's plan for managing its solid waste system during the next five (5) years. Identify any deficiencies and suggest recommendations to eliminate deficiencies and provide sustainability of the system for the next five (5) years. Show how the region's plan supports the Statewide Solid Waste Management Plan.

The South Central Tennessee Development District believes that with a continued commitment to recycling education that an increase in diversion will be realized in Giles County. As the recycling program currently remains stagnant; increased interaction and additional facilities are needed. Giles County is more than capable of achieving the mandated 25% diversion rate, while meeting all rules and regulation for solid waste management.