

# RUTHERFORD COUNTY

# NEEDS ASSESSMENT

## FY 2010

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**SECTION 1: Demographic Information**

TABLE 1.1 Historic and Projected Population (2000-2015)

Year	Rutherford County	Eagleville	Murfreesboro	LaVergne	Smyrna	Unincorporated
2000	183,507	463	71,060	18,944	27,279	65,661
2001	189,633	458	73,910	19,949	28,635	66,681
2002	196,099	455	76,737	21,600	29,493	67,764
2003	202,623	453	79,339	23,076	30,597	69,158
2004	210,695	463	82,889	24,861	31,864	70,618
2005	218,478	461	88,256	26,029	33,559	70,273
2006	228,829	475	93,851	27,460	34,793	72,250
2007	230,980	503	98,316	29,075	36,489	75,573
2008	249,270	523	101,753	29,952	37,867	79,097
2009	256,985	536	106,553	31,052	39,067	79,777
2010	264,700	549	111,352	32,100	40,267	78,156
2011	272,415	565	116,153	33,175	41,467	81,055
2012	280,130	580	120,000	34,250	43,000	82,300
2013	287,845	595	125,700	35,325	44,500	81,725
2014	294,800	610	130,500	36,970	46,200	80,520

Source: US Census; Estimates by GNRC

Rutherford County has been one of the fastest growing counties in the State and even the United States for the past several years. Table 1.1 shows the population growth from 2000-2009 for the county, cities, and unincorporated areas. Population estimates from 2009-2014 are also included in Table 1.1. Table 1.2 shows the percent growth for the same periods. Although the annual growth rate experienced in 2000-2009 period will be less, it will still be substantial ranging from 2.3% to 3.7% per year, excluding the unincorporated area that will grow less than 1% per year. The method used to determine these growth rates are likely very conservative, especially the unincorporated area.

TABLE 1.2 Percent Growth

Period	Rutherford County	Eagleville	Murfreesboro	LaVergne	Smyrna	Unincorporated
2000-2009	40%	15.7%	49.5%	63.9%	42.6%	21.5%
Annual Average	4%	1.57%	4.95%	6.39%	4.26%	2.15%
2009-014	14.7%	13.8%	22.5%	19.0%	18.2%	.93%
Annual Average	2.4%	2.3%	3.7%	3.2%	3.0%	.15%

Source: US Census; Estimates by GNRC

TABLE 1.3 Percentages of Population

Year	County	Cities	% of County	Unincorporated	% of County
2000	183,507	117,846	64.2%	65,661	35.8%
2009	256,985	177,208	68.9%	79,777	31.1%
2014	294,800	214,280	72.6%	80,520	27.4%

Table 1.3 shows the percentage of the population that resides in the combined cities and the unincorporated area of the County. From 2000 to 2009, the cities population grew from 117,846 (64.2%) to 177,208 (68.9%) and will grow to 214,280 (72.6%) in 2014. The unincorporated area, though growing, will continue to have a smaller percentage of the county population, going from 35.8% in 2000, to 31.0% in 2009, to 27.4% in 2014.

This trend towards urbanization (Table 1.3) is consistent with most counties in the state and the nation. While the county will have a moderate growth rate to contend with, it is more dependent on where, not how much, the growth will take place. Different patterns of growth could create the need to relocate, expand or build additional convenience centers. The City of Murfreesboro will need to plan for its continued rapid growth.

**SECTION 2: Economic Profile**

Rutherford County has a strong economy with a diversified industrial and commercial base. For the period 2000-2008 retail sales for the county increased 177% (Table 2.1) while population grew by 39% (Table 1.1).

**TABLE 2.1 Retail Sales, Rutherford County**

Year	Sales	Year % Change
2000	\$1,886,007,000	
2001	\$2,028,037,000	7.5%
2002	\$2,060,830,000	1.6%
2003	\$2,353,332,000	14.2%
2004	\$2,617,208,000	1.2%
2005	\$2,930,557,000	1.2%
2006	\$3,310,470,000	1.3%
2007	\$4,476,451,000	3.5%
2008	\$5,236,379,000	16.9%
2000-2008		177.6%

Source: TN Dept. of Labor & Workforce Development; GNRC

Local sales tax and property tax are \$39,675,000 and \$114,764,000 respectively and make up 42% of the county revenues (Table 2.2). The largest percentage of the budget (47.4%) comes from local taxes. Total revenue for the county budget increased 16.0% from 2007 to 2009, while total expenses increased by 14.4% during the same period. Table 2.2 also shows that the budget for Solid Waste/Sanitation decreased over 12.6% in the 2007-2009 time frame.

**TABLE 2.2 County Budget****REVENUE (in thousands)**

Source	2009	2008	2007	Percent Change 2007-2009
Current Property Tax	\$114,764 (31%)	\$101,683 (28%)	\$ 95,671 (30%)	20.0%
Other County Property Tax	10,107 (3%)	10,589 (3%)	10,022 (3%)	.8%
Local Sales Tax	39,675 (11%)	43,092 (12%)	39,034 (12%)	1.60%
Wheel Tax	8,897 (2%)	8,563 (2%)	8,055 (2%)	1.80%
Development Tax	3,500 (1%)	6,000 (2%)	5,875 (2%)	-40.40%
State Revenue	148,186 (39%)	138,270 (38%)	120,053 (37%)	23.40%
Federal Revenue	7,978 (2%)	6,853 (2%)	6,439 (2%)	23.90%
Interest Earned	2,838 (1%)	6,544 (2%)	6,781 (2%)	-58.10%
Other Revenue	39,536 (11%)	38,460 (11%)	31,814 (10%)	24.30%
<b>TOTAL</b>	<b>\$375,483</b>	<b>\$360,039</b>	<b>\$323,747</b>	<b>16.00%</b>

Revenue Growth 2005-2008 = 16%

**EXPENSES (in thousands)**

Source	2009	2008	2007	Percent Change 2007-2009
County General	\$ 73,677	\$ 72,506	\$ 68,454	7.6%
Solid Waste/ Sanitation	3,279	3,755	3,754	-12.6%
Industrial/Economic Development	220	220	219	0.0%
Development Tax	3,620	6,002	5,673	-36.2%
Drug Control	915	914	904	1.2%
Road & Bridge	9,663	9,596	8,319	16.2%
General Purpose School	234,011	220,000	204,627	14.3%
Central Cafeteria Fund	14,658	102,132	-	-
Education Capital Projects	2,192	1,951	689	218.1%
General Debt Service	4,186	42,434	42,437	-3.0%
TOTAL	\$383,424	\$ 369,514	\$335,078	14.4%

Expenses Growth 2005-2008 = 14.4%

**TABLE 2.3 Per Capita Personal Income**

Per Capita Personal Income	Rutherford County	Tennessee	Percent of State
2000	\$26,609	\$26,097	100%
2006	\$30,518	\$32,172	95%
2008	\$31,756	\$34,300	93%
Annual Growth Rate	2.42%	4.45%	54%

Source: Bureau of Economic Analysis; GNRC

Table 2.3 shows the per capita personal income for residents of Rutherford County and the State of Tennessee for the years 2000, 2006 and 2008. In 2000, the county's per capita income was equal to that of the State. However, between 2000 and 2008, the state figure grew at an annual rate of 4.45% while the county's growth rate was 2.42%, about one-half that of the State.

The medium household income, however, is a different story. Table 2.4 shows that the median family income of Rutherford County has remained about twice that of the State for the period 2000-2008. The County annual growth rate of 1.96% was also slightly higher than the 1.78 of the State as a whole.

**TABLE 2.4 Median Household Income**

Median Household Income	Tennessee	Rutherford County	Percent of State
2000	\$ 35,760	\$ 70,929	198%
2006	39,584	79,533	201%
2008	40,856	82,069	201%
Annual Growth Rate	1.78%	1.96%	110%

Source: Woods and Poole Economics, Inc.; GNRC

**TABLE 2.5 Employment**

Year	Labor Force	Employment	Unemployment	Unemployment Rate %
2009	129,920	116,770	13,150	10.1%
2008	130,930	123,500	7,410	5.7%
2007	128,440	123,520	4,930	3.8%
2006	126,040	121,020	5,020	4.0%
2000	103,340	100,110	3,230	3.6%

Source: TN Dept. of Labor & Workforce Development

Rutherford County has a workforce of some 130,000 (Table 2.5) in 2009 with an unemployment rate of over 10%. The unemployment rate for the County has almost tripled between 2000 and 2009, a reflection of the recession that hit the entire nation hard in 2009.

Rutherford County has maintained a substantial manufacturing base led by Nissan North America with 4,400 employees and Bridgestone/Firestone with 1,460 (Table 2.6). However, County Government remains the largest single employer with some 5,100 employees. Table 2.6 also shows several other organizations with over 1,000 employees.

**Table 2.6 Major Employers (April, 2009)**

Employer	Product/Services	Employees
Rutherford County Government	Government	5,100
Nissan North America	Small Trucks and Cars	4,400
Middle Tennessee State University	State University	2,208
State Farm Insurance	Insurance	1,665
Alvin C. York VA Medical Center	VA Medical Center	1,563
Bridgestone/Firestone	Vehicle Tires	1,466
Middle Tennessee Medical Center	Medical Center	1,300
Verizon Wireless	Phone Customer Service	1,122
Asurion	Wireless Device Refurbishing	1,098
Ingram Book Company	Books, Magazines	815

Table 2.7 gives a breakdown of the County's employment by sector. As a group Trade, Transportation and Utilities has slightly more employees than the manufacturing sector, 21,859 to 21,381 in 2008.

Table 2.7      Employment Sector

Sector	2008	2007	2006	2005
Construction	4,308	5,153	4,548	4,226
Education and Health Services	16,910	16,534	15,573	15,046
Financial Services	4,058	3,982	3,876	3,758
Goods Producing Domain	25,753	27,628	27,952	26,696
Information	3,231	2,931	2,970	3,003
Leisure and Hospitality	9,593	9,320	8,252	7,658
Manufacturing	21,381	22,390	23,300	22,377
Other Services	1,949	1,869	1,805	1,765
Professional and Business Services	12,173	12,308	12,355	12,654
Public Administration	3,218	3,070	2,958	2,756
Service – Providing Domain	73,010	71,119	69,552	67,966
Trade, Transportation and Utilities	21,859	21,079	21,724	21,300

Source: TN Department of Labor and Workforce Development

**SECTION 3: Solid Waste Stream**

The total amount of waste generated in Rutherford County grew by 88% between 2000 and 2008 (Table 3.1) while the population increased about 35% (Table 3.2). The largest increase, however, was in tons diverted going from 4,060 tons in 2001 to 154,053 tons in 2008 with a high of some 328,000 tons in 2004 (Table 3.1). When tons diverted are factored in, the tons disposed only grew some 16% from 2001-2008. Table 3.1 also shows the real time diversion rate was above the 25% goal every year from 2004-2008 with the exception of 2006 when a diversion rate of 22.4% was recorded.

**SECTION 3: Solid Waste Stream**

**TABLE 3.1 Waste Stream Comparison 2000-2007**

Year	Disposed (tons)	Diverted (tons)	Total Generated (tons)	Real Time Diversion (%)
2000	237,295		237,295	
2001	250,985	4,060	255,045	1.6%
2002	238,655	3,061	241,716	1.3%
2003	301,526	22,745	324,271	7.0%
2004	323,030	328,629	651,723	50.4%
2005	277,469	207,809	485,357	42.8%
2006	365,372	105,613	471,072	22.4%
2007	317,856	196,316	514,279	38.2%
2008	291,917	154,052	445,969	34.5%

Percent Growth 2000-2008      76.3%                      3694%                      88%

Source: 2008 APR

**TABLE 3.2 Tons Generated Per Capita, 2000-2007**

Year	Population	Generated (tons)	Tons Generated Per Capita
2000	183,507	237,295	1.29
2001	189,633	255,045	1.34
2002	196,049	241,716	1.23
2003	202,623	324,271	1.6
2004	210,695	651,723	3.09
2005	218,478	485,357	2.22
2006	228,829	471,072	2.06
2007	230,980	514,279	2.22
2008	249,270	446,029	1.79

2000-2008                      35.8%                      88%                      38.7%  
Annual Average:                      1.87

Source: 2008 APR

Table 3.2 also shows the tons generated on a per capita basis increased about 38.7% slightly more than population (35.8%). The average for the nine year period was 1.87 tons per capita.

The County is building permanent facilities for both paint and e-waste that should be open in early 2010. Other household hazardous waste will still be collected at the State funded HHW collection event. The County would like to develop a permanent facility that accepts all HHW in the near future.

Commercial and industrial waste are primarily handled either in-house or through contracts with private haulers. There is a large amount of municipal solid waste entering the County for disposal at the private Middlepoint Landfill. The County has an agreement with Middlepoint to dispose of its waste for no charge and collect a one dollar a ton host fee for waste originating out of the County. While the host fee has greatly helped the County, it has also had an adverse effect on recycling efforts.

The County has begun a pilot program working with one city school and five county schools. It will be a single stream program where recyclables at the schools will be comingled and later separated at a County facility. The County believes that the recycled material can be separated into cleaner material that will bring a premium return at market. It is anticipated that the schools can recycle 60-70% of their waste stream. If successful, the program will be expanded to all schools.

The City of Murfreesboro has in place an extensive program of eliminating brush and wood from the waste stream. The County is also using this facility and a large amount of material has been converted to a useable product.

## **SECTION 4: Solid Waste Collection System**

**TABLE 4.1 Municipal Solid Waste Collection Systems**

Jurisdiction	Type	Percent Publically Operated	Percent Publically Contracted	Percent Private Contracted
County	Convenience Centers	100%	-	-
Eagleville	Convenience Centers	100%	-	-
LaVergne	Curb Side	-	-	100%
Murfreesboro	Curb Side	100%	-	-
Smyrna	Curb Side	-	-	100%

Source: 2008 APR

The unincorporated portion of Rutherford County is served by 15 County convenience centers. The City of Eagleville also uses one of the County convenience Centers (Table 4.1). The City of Murfreesboro has city provided curb side service and maintains one convenience center. The cities of LaVergne and Smyrna do not provide service, their citizens contract directly with private haulers for curb side pick up.

In 2008, the County expanded the Weakley Lane Center and the Epps Mill Center was relocated and expanded. The City of Murfreesboro also expanded their convenience center and relocated and expanded their brush facility so that it will accommodate additional material from the County. The County believes that the existing system is sufficient to handle waste for the next five years.

The City of Murfreesboro operates a mulch processing facility at 447664 Florence Road, Murfreesboro 37129.

### **Convenience Centers**

<b>CCC NAME</b>	<b>STREET ADDRESS</b>	<b>CITY/ZIP</b>	<b>TELEPHONE</b>	<b>CCC NUMBER</b>
Almaville	7693 Almaville Road	Smyrna 37014	615-895-835	75-102-0269
Bradyville	6615 Bradyville Pike	Murfreesboro 37129	615-890-979	75-102-0271
Cranor Road	1567 Cranor Road	Murfreesboro 37130	615-896-6657	75-102-0270
Eagleville	Hwy 41A South	Eagleville 37060	615-274-3240	75-102-0272
Epps Mill(Buchannan)	10810 Manchester Pk	Christiana 37037	615-896-6950	75-102-0273
Lacassas	6883 Lacassas Hwy	Lacassas 37085	615-273-2693	75-102-0274
Leanna	4303 Sulpher Spgs Rd	Murfreesboro 37129	615-890-8531	75-102-1275
Rock Crusher	3895 Shelbyville Hwy	Murfreesboro 37127	615-895-2676	75-102-0277
Rock Springs	4040 Midland Road	Christiana 37037	615-895-1086	75-102-0276
Rockvale	8923 Rockvale Rd	Rockvale 37153	615-274-2609	75-102-0278
Sand Hill	300 Sand Hill Road	LaVergne 37086	615-793-5159	75-102-0279
Walter Hill	870 East Jefferson Pk	Murfreesboro 37130	615-896-8828	75-102-0260
Weakley Lane	135 Weakley Lane	Smyrna 37167	615-355-4944	75-102-0281
Christiana/Fosterville	8101 Shelbyville Pike	Christiana 37037	615-904-6906	75-102-0443
Murfreesboro City	648 West Main Street	Murfreesboro 37129	615-849-2625	75-102-8001

**SECITON 5: Solid Waste Reduction Goal**

**TABLE 5.1 Reduction Rate by Different Methodologies**

**BASE YEAR METHOD**

	1995	2008	% Change
Waste Disposed	180,363	291,917	61.8%
Population	148,041	249,270	68.3%
Tons Per Capita	1.22	1.17	-4.1%

Source: 2008 APR

The Base Year Method shows that the per capita waste disposal decreased by 4.1% (Table 5.1). However, the Real Time Diversion rate was 34.5% in 2008 (Table 5.2). Table 5.1 also shows that the population growth was greater than the increase in waste disposal.

**Table 5.2 Real Time Diversion Rate**

		<u>2008</u>		
Waste Disposed	291,917 tons	Waste Diverted =	<u>154,052</u>	
Waste Diverted	<u>154,052</u> tons	Total Waste	445,969	= 34.5% Diversion
Total Waste	445,969			

**SECTION 6: Collection and Disposal Capacity**

**TABLE 6.1 Landfill Capacity**

Landfill Class I	Current Volume (tons/day)	Maximum Capacity (tons/day)	Projected Life of Facility (years)
Middlepoint	4,000	5,500	14
West Camden	2,500	3,500	23
Cedar Ridge	430	1,000	18

C/D Landfill			
Rutherford County	50	100	10

Source: County Solid Waste Director; Middlepoint, West Camden and Cedar Ridge Landfills

**TABLE 6.2 Collection Service**

Service Provider	Service Area	Population Served	Service Frequency	Tonnage Capacity	Service Type
Rutherford County	Unincorporated	79,097	5 days/wk	3,040	Convenience Centers
Eagleville	City Limits	523	5 days/wk	Included in County	Convenience Centers
LaVergne	City Limits	30,030	1 wk	N/A *	Curbside
Murfreesboro	City Limits	101,753	1 wk	35,227	Curbside
Smyrna	City Limits	37,867	5 days/wk	N/A *	Curbside

\* The landfills said they were unable to separate amounts by individual source.

Source: County Solid Waste Director; 2008 APR; Landfills

With the expansions and improvement of several convenience centers as discussed in Section 7, the County collection system will be adequate for the next five years. There is also sufficient landfill capacity to handle all disposal needs.

**SECTION 7: 2009 County Solid Waste Budget (Annual Needs)**

Table 7.1 County Solid Waste Budget

**EXPENDITURES**

Description	Present Need Annual \$	Unmet Needs Annual \$	Total Needs Annual \$
Sanitation Education/Information	\$ 134,689	\$ 6,000	\$ 140,689
Convenience Centers	1,918,828	600,000	2,518,828
Other Waste Collection Recycling	401,125	200,000	601,121
Landfill Operation and Maintenance	638,906	500,000	1,138,906
Postclosure Costs	91,500		91,500
Employee Benefits	56,120		56,120
Miscellaneous	48,700		48,700
TOTAL	\$ 3,289,864	\$ 1,306,000	\$ 4,595,864

**REVENUES**

Local Taxes	\$ 1,185,000	\$ *	\$
Charges for Service	900,000	*	
Other Local Government	88,000	*	
State Revenues	301,000	*	
TOTAL	\$ 2,474,500	\$ *	\$

\*Additional funds will not be used, increased expenditures will come from fund balance.

Source: County budget; County Solid Waste Director

The County Solid Waste Budget has a substantial fund balance that will be drawn down to cover shortfalls. This is done to help the overall County Budget as revenues have decreased due to the lagging economy. It is hoped that the revenue stream will increase as the economy resounds and the fund balance is reduced.

Table 7.2 FY 2009 County Solid Waste Budget (Annual Comparison)

**REVENUES**

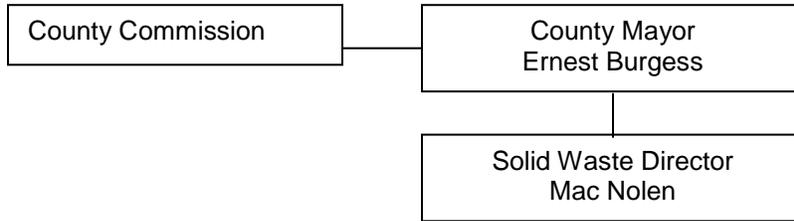
Source	2009	2008	2007	Percent Change 2007-2009
Local Taxes	\$ 1,185,000	\$ 1,157,845	\$ 1,104,856	+ 7.2%
Charges for Service	1,105,000	1,299,073	1,733,893	-36.3%
Other Local Government	88,000	107,898	99,497	-11.5%
State Revenues	301,500	290,882	174,908	-72.0%
TOTAL	\$ 2,679,500	\$ 2,855,798	\$ 3,113,255	-13.9%

**EXPENDITURES**

Source	2009	2008	2007	Percent Change 2007-2009
Sanitation Education/Information	\$ 134,689	\$ 131,306	\$ 119,309	+12.8%
Convenience Centers	1,918,828	1,941,357	2,016,849	-4.8%
Other Waste Collection Recycling	401,121	281,485	331,949	+20.8%
Landfill Operation and Maintenance	638,906	853,100	911,366	-29.8%
Postclosure Costs	94,500	97,363	141,264	-35.2%
Employee Benefits	56,120	52,239	59,100	-5.0%
Miscellaneous	48,700	46,847	64,312	-24.0%
TOTAL	\$ 3,289,864	\$ 3,403,707	\$ 3,644,149	-9.7%

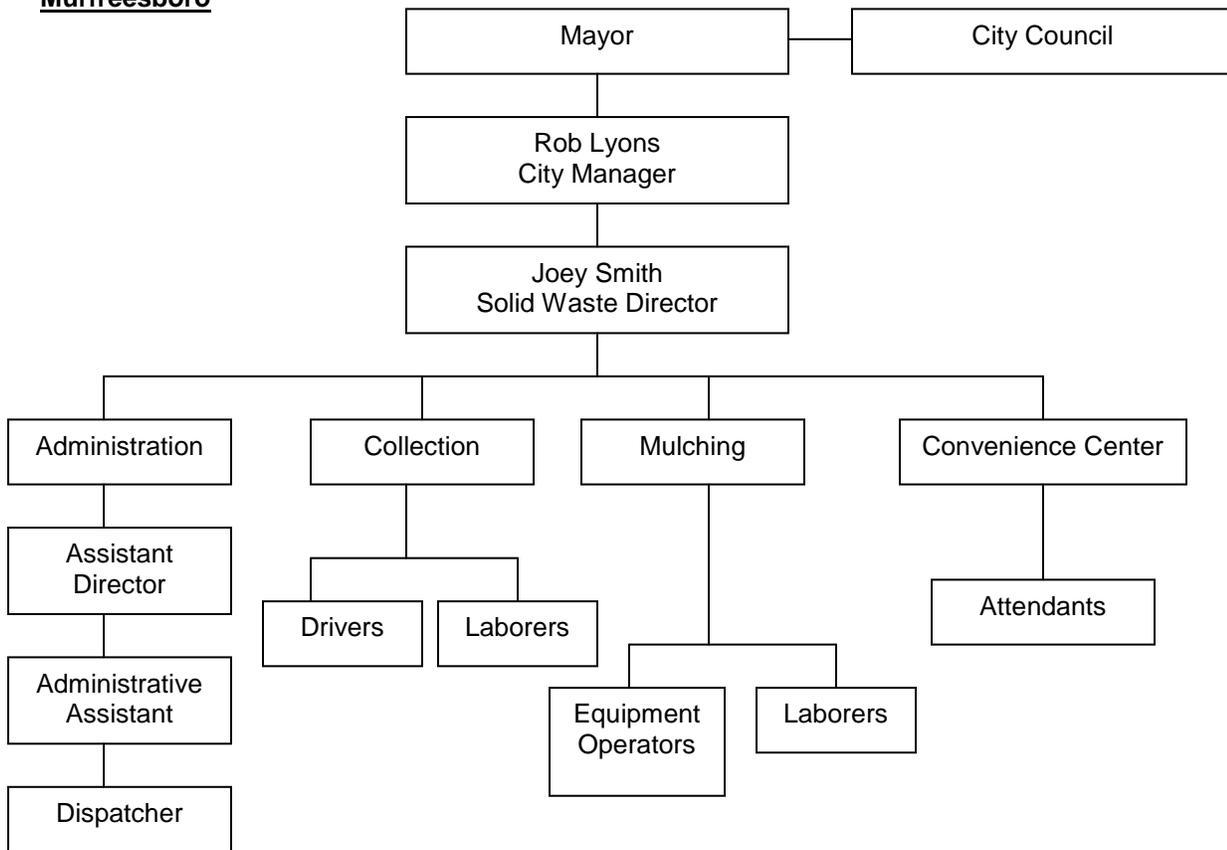
Source: 2009 County Budget

**SECTION 8: Management and Organizational Structure**



**Rutherford County** provides service to some 79,000 residents in the unincorporated portion of the county as well as 536 citizens of Eagleville. Their Solid Waste Department has fifty-five (55) employees.

**Murfreesboro**



The **City of Murfreesboro** provides curb side service to 256,000 residents. The organizational structure of their solid waste department is show above.

The **Cities of LaVergne** and **Smyrna** do not provide any solid waste services.

## **SECTION 9: Revenue Sources**

The Cities of **LaVergne** and **Smyrna** do not provide any waste collection or disposal service. The City of **Eagleville** uses a county convenience center. These cities do not provide a revenue sources.

The City of **Murfreesboro** has a solid waste budget of \$5,314,118 for FY 2010. The revenue to fund the Department comes from the General Fund, primarily from property taxes.

**Rutherford County** has a budget of \$3,289,864 for FY 2010 (Table 7.1) and expects to have revenues of \$2,474,000 that come from Local Taxes (\$1,185,000), Charges for Service (\$900,000), Other Local Government (\$88,000) and State Revenues (\$301,000). Although the budget shows a deficit of \$2,474,500 it will be covered out of a substantial fund balance that will be drawn down.

## **SECTION 10: Education/Citizens Participation**

Rutherford County has a substantial education program that reaches all segments of the population. Below is a brief description of the programs designed for the various segments:

Public Education/Participation: The County Recycling Program participates in a number of community events such as Uncle Dave Macon Days and the Annual Jazz Fest. These events, along with several smaller ones, reach thousands of citizens with very positive results. The County's full-time Environmental Education Coordinator has plans to make all events held on the town square waste-free. Citizens also participate in events such as telephone book drives, litter and river clean-ups.

Student Education: The classroom environmental education program reaches over 5,000 students per year. It is a comprehensive program that promotes recycling, watershed awareness and litter prevention. The County has initiated a pilot program in one city school and five county schools that will utilize a single stream (comingled materials) recycling program. If successful, it will be expanded to all schools in the County. It is estimated by the County Solid Waste Director that 60-70% of the waste stream in schools can be recycled.

Government Education: The Environmental Education Coordinator meets quarterly with the Public Works Committee of the County Commission to make presentations and keep the members current in all aspects of the County's program and to suggest potential additional activities for them to consider.

Media Education: The County enjoys good support from all media that serves the area. The Coordinator writes articles for the newspapers on a regular basis. The Community TV station along with radio spots and programs are also utilized with good success.

## **SECTION 11: Five Year Plan**

The County is working to expand its recycling program in a number of ways. Permanent e-scrap and paint recycling facilities will go into operation in 2010. The cardboard recycling effort will be expanded with the purchase of three new compactors. The County will continue to participate with the City of Murfreesboro in its very successful brush recycling program. In 2008 over 24,000 tons of brush was converted into mulch for use in the County.

The County also will relocate and expand two convenience/recycling centers and develop a new facility at Lascassas. The industrial recycling program be continued and expanded where possible. This effort resulted in over 124,000 tons of material being recycled in 2008.

The County will also work with the cities to encourage and assist in creating expanding their recycling efforts.

# Rutherford County

