



**East Arkansas Planning and Development District**

P.O. Box 1403 • 2905 King Street • Jonesboro, AR 72403  
phone 870 932-3957 • fax 870 932-0135 • www.eapdd.com

November 1, 2004

Steve Martin, Chief  
Solid Waste Management Division  
Arkansas Department of Environmental Quality  
PO Box 8913  
Little Rock, AR 72219-8913

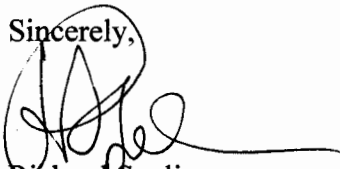
RE: Submittal of Draft Solid Waste Management Plan  
East Arkansas Regional Solid Waste Management District

Dear Mr. <sup>STEVE</sup>Martin:

Attached please find a copy of the Solid Waste Management Plan for the East Arkansas Regional Solid Waste Management District. As requested by you and Mary Leath of the ADEQ, we are submitting the Plan in a draft form. The Plan is incomplete because the consulting firm we have contracted to complete it is still acquiring information on the existing condition of solid waste management within our District. We will submit an amended plan to the ADEQ once the assessment has been completed.

If you or your staff have any questions regarding this submittal, please contact me or Stacy Murry at (870) 932-3957.

Sincerely,

  
Richard Spelic  
Executive Director

AFIN: 16-00281  
Pmt #: RSWMD-EAR S  
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SCAN ☒ M  
Doc ID#: 24700 D  
To: Sm7 PH7 file

Table 1. Active permitted solid waste management facilities.

Name of Facility/Physical Location	Owner/Operator/Contact	Mailing Address	Phone Number/Fax Number/ Email Address	Classification of Landfill or Facility Type	County/Jurisdiction/Area Served	Approximate Volume Managed Annually	Life Expectancy (Years)
Cross Co. Special Workshop 506 E. Commercial Ave. Wynne, AR 72396	Eureka Springs, City of	City Hall, 44 South Main Eureka Springs, AR72632 Phone: (479) 253-9703	(870) 238-9088	Waste Tire Collection	Cross Co./		
Eaton-Moery Environmental Services, Inc. 74 CR 451 Parkin, AR 72373	Eaton-Moery Environmental Services, Inc.	EMS 206 East Merriman Ave. Wynne, AR72396	(870) 755-5331	Class 3 Tire Monofill	Cross Co./		
Eaton-Moery Environmental Services, Inc. 74 CR 451 Parkin, AR 72373	Eaton-Moery Environmental Services, Inc.	EMS 206 East Merriman Ave. Wynne, AR72396	(870) 755-5331	Class 3 Commercial SW LF	Cross Co./		
Eaton-Moery Environmental Services, Inc. 74 CR 451 Parkin, AR 72373	Eaton-Moery Environmental Services, Inc.	EMS 206 East Merriman Ave. Wynne, AR72396	(870) 755-5331	Tire Processing Facility	Cross Co./		
Eaton-Moery Environmental Services, Inc. 74 CR 451 Parkin, AR 72373	Eaton-Moery Environmental Services, Inc.	EMS 206 East Merriman Ave. Wynne, AR72396	(870) 755-5331	Solid Waste Transfer Station	Cross Co./		
Crittenden County 1299 Kuhn Road West Memphis, AR 72301	Crittenden County	87 Jackson Street- Courthouse Marion, AR72364	(870) 732-4290	Class 4 C&D LF	Crittenden Co./		
Crittenden County 1299 Kuhn Road West Memphis, AR 72301	Crittenden County	87 Jackson Street- Courthouse Marion, AR72364	(870) 732-4290	Class 1 Municipal SW LF	Crittenden Co./		
Crittenden County 1299 Kuhn Road West Memphis, AR 72301	Crittenden County	87 Jackson Street- Courthouse Marion, AR72364	(870) 732-4290	Compost Yard Waste	Crittenden Co./		
Crittenden County LF WTX 1299 Kuln Road West Memphis, AR 72301	Crittenden County LF WTX	1299 Kuln Road West Memphis, AR72301	(870) 732-4890	Waste Tire Collection Center	Crittenden Co./		
Harvey Tire 469 West Chestnutt Marianna, AR 72360	Harvey Tire	469 West Chestnuee Marianna, 72360	(870) 295-3460	Waste Tire Collection Center	Lee Co./		
City of West Helena 1448 B Phillips Hwy. 217 West Helena, AR 72390	West Helena, City of	98 Plaza St. West Helena, AR72390	(870) 572-5860	Class 4 C&D LF	Phillips Co./		
City of West Helena 1448 B Phillips Hwy. 217 West Helena, AR 72390	West Helena, City of	98 Plaza St. West Helena, AR72390	(870) 572-5860	Class 1 Municipal SW LF	Phillips Co./		
Phillips Co Collection Center 8070 Highway 49 West Helena, AR 72390	Phillips Co Collection Center	8070 Highway 49 West Helena, AR72390- 0000	(870) 572-7805	Waste Tire Collection Center	Phillips Co./		

Table 1. (Continued)

Name of Facility/Physical Location	Owner/Operator/Contact	Mailing Address	Phone Number/Fax Number/ Email Address	Classification of Landfill or Facility Type	County/Jurisdiction/Area Served	Approximate Volume Managed Annually	Life Expectancy (Years)
Poinsett Co Collection Center 704 N. East St. Harrisburg, AR 72432	Poinsett Co Collection Center	708 Northeast St. Harrisburg, AR72432-0000	(870) 578-4472	Waste Tire Collection Center	Poinsett Co./		
Poinsett County 704 N. East Street Harrisburg, AR 72432	Poinsett County Landfill	401 Market Street Harrisburg, AR72432	(870) 578-4472	Class 4 C&D LF	Poinsett Co./		
City of Forrest City 3300 Hwy 334 Forrest City, AR 72335	Forrest City, City of	P.O. Box 1074 Forrest City, AR72336	(870) 261-1420	Compost Yard Waste	St Francis Co./		
Northeast AR Recycling Center 604 Martin Luther King Madison, AR 72335	Northeast AR Recycling Center	St. Francis Courthouse Forrest City, AR72335-0000	(870) 261-1700	Waste Tire Collection Center	St Francis Co./		

**REGIONAL SOLID WASTE MANAGEMENT PLAN  
FOR  
EAST ARKANSAS  
REGIONAL SOLID WASTE  
MANAGEMENT DISTRICT**



**DRAFT  
November 1, 2004**

# EAST ARKANSAS REGIONAL SOLID WASTE MANAGEMENT PLAN

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# REGIONAL SOLID WASTE MANAGEMENT PLAN For the East Arkansas Regional Solid Waste Management District

## PART TWO - CHAPTER ONE — ACTIVITIES ANALYSIS

*A.C.A. §8-6-704. Boards - Powers and duties. "(a) The regional solid waste management boards shall have the following powers and duties:....(2) To evaluate on a continuous basis the solid waste needs of their districts.....; (3) To formulate recommendations to all local governments within their districts on solid waste management issues, and to formulate plans for providing adequate solid waste management....."*

### Section 2.101 Overview

#### A. History

Act 870 of 1989, codified as A.C.A. §8-6-701 et seq., established eight Regional Solid Waste Planning Districts. The East Arkansas Regional Solid Waste Management District (EARSWMD) originally included 12 counties. Between 1991 and 1997, six of the original counties (Craighead, Lawrence, Green, Clay, Mississippi, and Randolph) formed other or joined existing Solid Waste Districts. The EARSWMD currently has jurisdiction within the geographic limits of Crittenden, Cross, Lee, Phillips, Poinsett, and St. Francis Counties in Arkansas.

Act 752 of 1991 mandated that all local governments plan for the development of solid waste management systems. The original guidelines for regional solid waste management plans, dated 1988, required a plan that had an "orderly narrative explanation of the collection and disposal of all solid waste generated within the territorial boundaries of a local government". The Regional Solid Waste Management Boards provided plans that, pursuant to the 1988 guidelines, served an integral purpose in the early days of the development of regional solid waste management systems throughout Arkansas. Subsequent to the original plan, periodic reporting of Needs Assessments by each District were required to update the demographic and service information contained in the original plan.

The EARSWMD's greatest accomplishments have been education and technical assistance for solid waste issues throughout the District and the adoption of regulations and policies that promote efficient and cost-effective disposal, treatment, and/or other handling of solid waste for citizens within the District.

#### B. Current

The District Board relies on the recommendations of the administrative staff and contracted professional service providers to guide them in planning to incorporate any changes in regulated solid waste management requirements. As a Board, the city and county governments work together to ensure mandated programs are incorporated as needed and as funding allows. Funds are spent

as outlined by Arkansas law, with the approval of the Executive Director of the EARSWMD Board. If necessary, the EARSWMD Board gives final approval.

The District wants to set forth a Plan that will, not only provide for the most efficient and cost-effective disposal or handling of solid waste that is currently possible, but also provide goals for the future that ensure consistent and viable disposal options are available in the long-term.

Collection of solid waste within the District boundaries is accomplished by a combination of public and private haulers that service all areas of the District.

Permitted facilities that are in operation within the EARSWMD are listed in Table 1 (Appendix D). There are two permitted Class 1 landfills in the District that are located near West Helena and West Memphis. Three facilities handle Class 4 wastes and are located in Harrisburg, West Helena, and West Memphis. Permitted waste tire collection facilities are in operation at Harrisburg, Madison, Marianna, West Helena, West Memphis, and Wynne. Recyclables are collected at nine locations within the District. The city of Marked Tree participates in curbside pickup of recyclables. Forrest City and Crittenden County operate yard waste composting facilities.

## **Section 2.102                      Organization and Administration**

<i>A.C.A. §8-6-703. Creation of districts and boards - Members of boards et seq....."</i>
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### **A.            District**

The Board employs staff of the East Arkansas Planning and Development District (EAPDD) to serve as staff of the EARSWMD. A chart giving the organizational hierarchy of the EAPDD and the relationship to the EARSWMD Board is attached as Figure 1 (Appendix D).

The District represents and serves the citizens of Crittenden, Cross, Lee, Phillips, Poinsett, and St. Francis Counties in ensuring that efficient and cost-effective solid waste disposal and management is available throughout the District. The District also provides educational programs to the District's citizens that allow the successful implementation of solid waste disposal and management.

The activities of the District include:

- On-going needs assessment of solid waste problems and opportunities,
- Continuous program of planning to deal with the problems and opportunities identified through needs assessment,
- Development and operation of programs to implement waste recycling,
- Identification and assistance in the closure of illegal dump sites, and
- Licensing of solid waste haulers.

Administrative procedures, regulations, ordinances or policies relative to the District are included in Appendices A and C.

### **B.            Board**

The appointed District Board of Directors is responsible for evaluating the solid waste management needs of and developing solid waste plans for the District. The Board meets, as necessary, to carry out the duties and functions of the District. Procedures for calling meetings are provided in the By-

Laws of the EARSWMD (included in Appendix B). The District is authorized to adopt regulations that allow for the proper implementation of plans, financial viability of the landfills, and the protection of the health, safety, and welfare of all persons within the geographic boundaries of the District. The District Board is also authorized to adopt rules or regulations with less than the normally-required 20 days notice if an emergency situation exists that may affect public health, safety, or welfare. Procedures for the adoption of rules and regulations is included in Appendix A.

The By-Laws of the EARSWMD that were adopted on November 20, 1997 established that the representatives of the Board be composed of the following:

- The County Judge of each of the six counties,
- The Mayor of each first class city within the District,
- The Mayor of all cities within the District with a population over 2,000 people according to the latest federal decennial census, and
- The Mayor of the largest city within each of the six counties.

A procedure for the County Judge or Mayor to appoint an alternative representative is included in the By-Laws. A list of the current EARSWMD Board Members is included below:

**Crittenden County Board Members**

Judge Melton Holt - Crittenden County  
Crittenden County Courthouse  
87 Jackson  
Marion, AR 72364  
Phone: 870-739-3200  
Fax: 870-739-3072

Mayor Sherman Smith – City of Earle  
PO Box 213  
Earle, AR 72364  
Phone: 870-792-8477  
Fax: 870-792-8477 (Call first)

Mayor Frank Fogleman – City of Marion  
Marion City Hall  
PO Box 717  
Marion, AR 72301  
Home: 870-739-5410  
Fax: 870-739-2102

Mayor William Johnson – City of West Memphis  
205 S. Redding  
West Memphis, AR 72301  
Phone: 870-732-7500  
Fax: 870-732-7504

**Cross County Board Members**

Judge Billy Lee – Cross County  
County Courthouse  
705 East Union, Room 4  
Wynne, AR 72396  
Phone: 870-238-5750  
Fax: 870-238-4055

Mayor Paul Nichols – City of Wynne  
**(Board Secretary)**  
City Hall  
206 S. Falls Street  
Wynne, AR 72396  
Phone: 870-238-0027  
Fax: 870-238-4055

**Lee County Board Members**

Judge Jim Keasler – Lee County  
County Courthouse  
15 East Chestnut Street  
Marianna, AR 72360  
Phone: 870-295-7700  
Fax: 870-295-7766

Mayor Robert Taylor – City Marianna  
City Hall  
45 W. Mississippi  
Marianna, AR 72360  
Phone: 870-295-6089  
Fax: 870-295-9419



**Phillips County Board Members**

Judge Donald Gentry – Phillips County  
County Courthouse  
620 Cherry Street  
Helena, AR 72390  
Phone: 870-338-5500  
Fax: 870-338-5504

Mayor Johnny Weaver – City of West Helena  
**(Board Vice Chairman)**  
City Hall  
98 Plaza Street  
West Helena, AR 72342  
Phone: 870-572-3421  
Fax: 870-572-7857

Mayor Robert Miller – City of Helena  
City Hall  
226 Perry Street  
Helena, AR 72342  
Phone: 870-338-9831  
Fax: 870-338-9832

**Poinsett County Board Members**

Judge Doyle Hillis – Poinsett County  
County Courthouse  
401 Market Street  
Harrisburg, AR 72432  
Phone: 870-578-5333  
Fax: 870-578-2411

Mayor Donny Faulkner – City of Harrisburg  
City Hall  
202 East Street  
Harrisburg, AR 72432  
Phone: 870-578-5466 or 870-578-5467  
Fax: 870-578-4113

Mayor Ronnie Harrison – City of Trumann  
City Hall  
PO Box 120  
Trumann, AR 72472  
Phone: 870-483-5355  
Fax: 870-483-6833

Mayor Lawrence Ashlock – City of Marked Tree  
City Hall  
1 Elm Street  
Marked Tree, AR 72354  
Phone: 870-358-3216  
Fax: 870-358-7867

Mayor Dale Dunlap – City of Lepanto  
City Hall  
PO Box 610  
Lepanto, AR 72354  
Phone: 870-475-2415  
Fax: 870-475-3161

**St. Francis County Board Members**

Judge Carl Cisco – St. Francis County  
**(Board Chairman)**  
St. Francis County Courthouse  
313 South Izard Street, Suite 1  
Forrest City, AR 72355  
Phone: 870-261-1700  
Fax: 870-261-1704

Mayor Larry S. Bryant – City of Forrest City  
City Hall  
PO Box 1074  
Forrest City, AR 72335  
Phone: 870-633-1315  
Fax: 870-261-1424

Board meetings are held, as necessary, at the offices of the East Arkansas Planning and Development District, 2905 King Street, Jonesboro, Arkansas.

**C. Staff**

EAPDD staff members that are specifically engaged on a regular basis with providing administrative staff services to the EARSWMD Board are Richard Spelic and Stacy Murry. The organizational chart for the EAPDD is included in Appendix D.

The following staff member should be contacted for solid waste information for the EARSWMD:

Richard Spelic, Executive Director or  
Stacy Murry, Environmental Planning Consultant  
East Arkansas Planning and Development District  
2905 King Street  
PO Box 1403  
Jonesboro, AR 72403  
Phone: 870-932-3957  
Fax: 870-932-0135  
Email: [rspelic@eapdd.com](mailto:rspelic@eapdd.com) or  
[smurry@eapdd.com](mailto:smurry@eapdd.com)

**Section 2.103 Revenues and Expenditures**

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**A. District**

There are three primary sources of revenue that fund District activities:

- Grants from the Arkansas Department of Environmental Quality (ADEQ),
- The waste hauler licensing program, and
- The two regional landfills.

The District currently assesses each of the District's two Class 1 landfills (Crittenden County and West Helena) for half of the annual anticipated budget shortfall. This assessment is billed monthly and was established to fund Board administrative costs and other activities. At the end of each budget year, the District puts back some of the monies into a reserve account that is carried forward to fund the next year's activities.

For the fiscal year ending June 30, 2003, revenue sources for the District, and the approximate percentage of annual revenue, were as follows:

Grant Funds Earned (District Admin)*	\$ 28,764 (11%)
Grant Funds Earned (Other)	115,495 (43%)
Balance Forward from FY 2003	6,611 (2%)
Hauler Licensing	6,700 (2%)
Landfill Contribution	113,454 (42%)

\*includes interest

The revenues listed above support the activities of the EARSWMD, as set forth in Act 752. The District's activities include:

- Providing solid waste planning to local governments;
- Providing illegal dump eradication assistance;
- Providing public education;
- Providing technical assistance;
- Providing onsite visits to schools, businesses, and industries;

- Operating the waste hauler licensing program;
- Handling waste tire collection and abatement;
- Executing contracts;
- Overseeing contract negotiations between local government and waste hauling companies, when requested;
- Promoting and hosting educational workshops and satellite forums;
- Overseeing the ADEQ recycling grants program; and
- Providing the public with solid waste information via the EAPDD's website.

Solid waste revenues and expenditures for the District, for the fiscal year ending June 30, 2003, were as follows:

<u>INCOME</u>	
Grant Funds Earned (District Admin)*	\$ 28,764
Grant Funds Earned (Other)	115,495
Balance Forward from FY 2003	6,611
Hauler Licensing	6,700
Landfill Contribution	113,454
	<u>\$271,024</u>

\*includes interest

<u>EXPENSES</u>	
Salaries and Benefits	\$ 78,825
Grant Funds Disbursed (Other)	97,796
Legal Fees	3,404
Miscellaneous	2,400
Indirect Costs	38,089
	<u>\$220,514</u>

Excess (Deficiency) of Revenues Over Expenses      \$50,510

An independent auditor's report and financial statement for the EAPDD for the year ending June 30, 2003 is included in Appendix E. The auditor's report and financial statement for the year ending June 30, 2004 are not yet available.

## **B. County**

Based on information provided on the 2004 solid waste survey:

- Poinsett County does not receive revenues supporting solid waste services.
- Lee County contracts with B & B Disposal (B & B) for waste collection services. Revenue is collected by the County for B & B. No other revenues are collected for solid waste services.

Grants from the ADEQ for entities within the District support recycling efforts, as discussed in Section 2.105 (C).

## **C. City**

Class 1 cities in the District include Earle, Forrest City, Harrisburg, Helena, Lepanto, Marked Tree, Marianna, Marion, Parkin, Trumann, West Helena, West Memphis, and Wynne. The primary source of revenue for Harrisburg, Lepanto, Marked Tree, and Wynne is a mandatory fee. The source of revenue for Forrest City is a one-cent city sales tax. (Information on other Class 1 cities is currently being developed. When the information is available, this Plan will be amended and submitted to the ADEQ.) These revenues support curbside pickup for residents and the cost of disposal fees at the

landfill. Grants from the ADEQ support recycling efforts, as discussed in Section 2.105 (C) of this Plan.

## **Section 2.104 Demographics**

*A.C.A. §8-6-704. Boards - Powers and duties. "(a) The regional solid waste management boards shall have the following powers and duties: (1) To collect data, study, and initially evaluate the solid waste management needs of all localities within their districts, as provided in § 8-6-716;....."*

### **A. Planning Area**

The EARSWMD is comprised of Crittenden, Cross, Lee, Phillips, Poinsett, and St. Francis Counties and encompasses 3,913 square miles. There are 45 incorporated towns and cities within the District as listed below:

#### **Crittenden County:**

Anthonyville (Incorporated Town)  
Crawfordsville (City of Second Class)  
Clarkedale (Incorporated Town)  
Earle (City of First Class)  
Edmondson (Incorporated Town)  
Gilmore (City of Second Class)  
Horseshoe Lake (Incorporated Town)  
Jennette (Incorporated Town)  
Jericho (Incorporated Town)  
Marion (City of First Class)  
Sunset (Incorporated Town)  
Turrell (City of Second Class)  
West Memphis (City of First Class)

#### **Cross County:**

Cherry Valley (City of Second Class)  
Hickory Ridge (City of Second Class)  
Parkin (City of First Class)  
Wynne (City of First Class)

#### **Lee County:**

Aubrey (Incorporated Town)  
Haynes (Incorporated Town)  
LaGrange (Incorporated Town)  
Marianna (City of First Class)  
Moro (Incorporated Town)  
Rondo (Incorporated Town)

#### **Phillips County:**

Elaine (City of Second Class)  
Helena (City of First Class)  
Lake View (City of Second Class)  
Lexa (Incorporated Town)

Marvell (City of Second Class)  
West Helena (City of First Class)

**Poinsett County:**

Fisher (City of Second Class)  
Harrisburg (City of First Class)  
Lepanto (City of First Class)  
Marked Tree (City of First Class)  
Trumann (City of First Class)  
Tyronza (City of Second Class)  
Waldenburg (Incorporated Town)  
Weiner (City of Second Class)

**St. Francis County:**

Caldwell (Incorporated Town)  
Colt (City of Second Class)  
Forrest City (City of First Class)  
Hughes (City of Second Class)  
Madison (City of Second Class)  
Palestine (City of Second Class)  
Wheatley (City of Second Class)  
Widener (Incorporated Town)

A map showing the jurisdictional areas within the District is included as Figure 2 (included in Appendix D).

There are no solid waste management authorities within the District.

**B. Population**

These population data were retrieved from the U.S. Census Bureau website <http://quickfacts.census.gov>. The population for each county was projected for the next 10 years (2004 through 2013) using the formulas provided in Appendix 5 of the Statewide Solid Waste Management Plan (November 1, 2003).

**Crittenden County:**

The population, according to the 1990 census, was 49,939; and according to the 2000 census, increased to 50,866, for an increase of 1.9%. The average annual growth rate in population for Crittenden County, based on the 1990 and 2000 census reports, is 0.19%. Applying that same rate of increase to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,253$
2005 population:	$(2005 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,349$
2006 population:	$(2006 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,446$
2007 population:	$(2007 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,543$
2008 population:	$(2008 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,639$
2009 population:	$(2009 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,736$
2010 population:	$(2010 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,832$
2011 population:	$(2011 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 51,929$
2012 population:	$(2012 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 52,026$
2013 population:	$(2013 \text{ minus } 2000) \times 0.0019 + 1 \times 49,939 = 52,122$

**Cross County:**

The population, according to the 1990 census, was 19,225; and according to the 2000 census, increased to 19,526, for an increase of 1.6%. The average annual growth rate in population, based on the 1990 and 2000 census reports, is 0.16%. Applying that same rate of increase to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,651$
2005 population:	$(2005 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,682$
2006 population:	$(2006 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,713$
2007 population:	$(2007 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,745$
2008 population:	$(2008 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,776$
2009 population:	$(2009 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,807$
2010 population:	$(2010 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,838$
2011 population:	$(2011 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,870$
2012 population:	$(2012 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,901$
2013 population:	$(2013 \text{ minus } 2000) \times 0.0016 + 1 \times 19,225 = 19,932$

**Lee County:**

The population, according to the 1990 census, was 13,053; and according to the 2000 census, decreased to 12,580, for a decrease of 3.6%. The average annual decline rate in population, based on the 1990 and 2000 census reports, is 0.36%. Applying that same rate of decrease to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,399$
2005 population:	$(2005 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,354$
2006 population:	$(2006 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,308$
2007 population:	$(2007 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,263$
2008 population:	$(2008 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,218$
2009 population:	$(2009 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,172$
2010 population:	$(2010 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,127$
2011 population:	$(2011 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,082$
2012 population:	$(2012 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 12,037$
2013 population:	$(2013 \text{ minus } 2000) \times -0.0036 + 1 \times 13,053 = 11,991$

**Phillips County:**

The population, according to the 1990 census, was 28,830; and according to the 2000 census, decreased to 26,445, for a decrease of 8.3%. The average annual decline rate in population, based on the 1990 and 2000 census reports, is 0.83%. Applying that same rate of decrease to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 25,567$
2005 population:	$(2005 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 25,348$
2006 population:	$(2006 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 25,128$
2007 population:	$(2007 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 24,909$
2008 population:	$(2008 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 24,689$
2009 population:	$(2009 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 24,470$
2010 population:	$(2010 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 24,250$
2011 population:	$(2011 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 24,031$
2012 population:	$(2012 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 23,811$
2013 population:	$(2013 \text{ minus } 2000) \times -0.0083 + 1 \times 28,830 = 23,592$

**Poinsett County:**

The population, according to the 1990 census, was 24,664; and according to the 2000 census, increased to 25,614, for an increase of 3.9%. The average annual growth rate in population for Poinsett County, based on the 1990 and 2000 census reports, is 0.39%. Applying that same rate of increase to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 24,014$
2005 population:	$(2005 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,113$
2006 population:	$(2006 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,213$
2007 population:	$(2007 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,313$
2008 population:	$(2008 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,413$
2009 population:	$(2009 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,513$
2010 population:	$(2010 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,613$
2011 population:	$(2011 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,713$
2012 population:	$(2012 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,813$
2013 population:	$(2013 \text{ minus } 2000) \times 0.0039 + 1 \times 24,664 = 26,913$

**St. Francis County:**

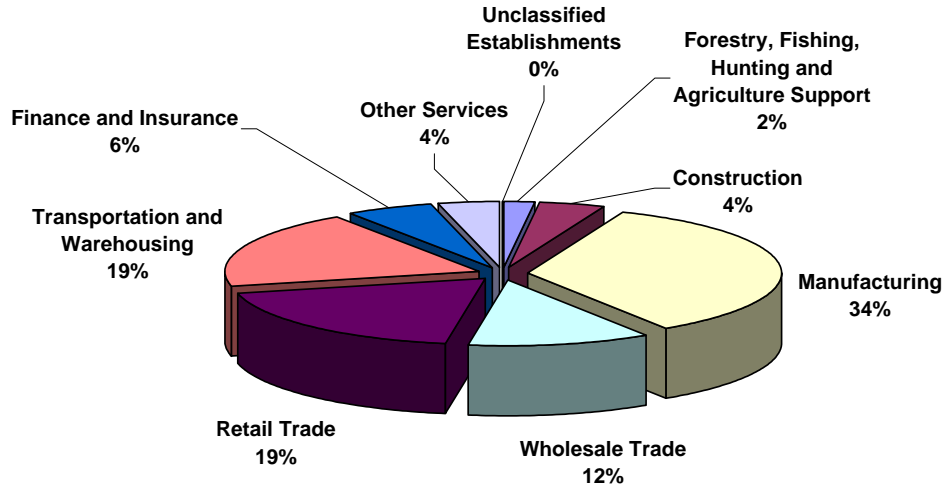
The population, according to the 1990 census, was 28,497; and according to the 2000 census, increased to 29,329, for an increase of 2.9%. The average annual growth rate in population, based on the 1990 and 2000 census reports, is 0.29%. Applying that same rate of increase to each successive year, the calculated estimates of population for the next 10 years are as follows:

2004 population:	$(2004 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 26,669$
2005 population:	$(2005 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 29,754$
2006 population:	$(2006 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 29,839$
2007 population:	$(2007 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 29,924$
2008 population:	$(2008 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,009$
2009 population:	$(2009 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,094$
2010 population:	$(2010 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,180$
2011 population:	$(2011 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,265$
2012 population:	$(2012 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,350$
2013 population:	$(2013 \text{ minus } 2000) \times 0.0029 + 1 \times 28,497 = 30,435$

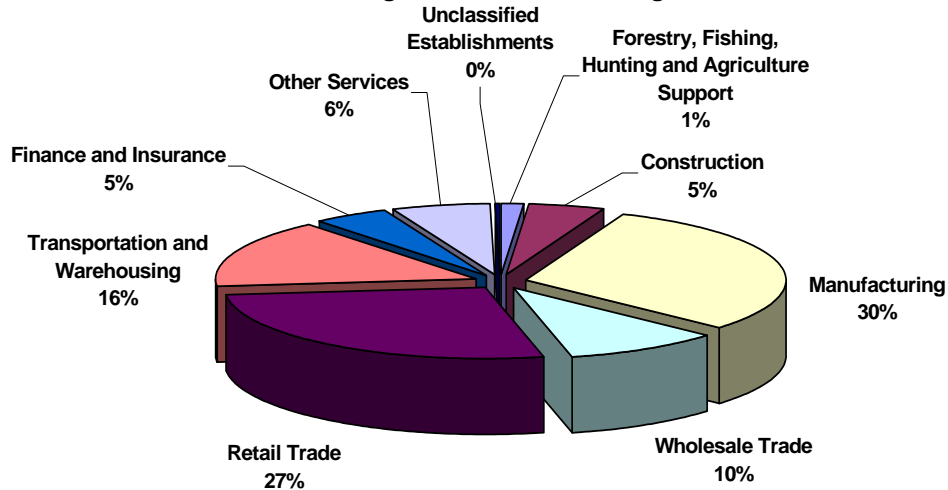
**C. Industry**

The predominant land uses within the EARSWMD are agricultural, forestry, and fishing. Other land uses include light industrial and manufacturing in urban areas. Employers in the District with more than 500 employees include Schneider National Carriers, Watkins Truck Lines, and Crittenden Memorial Hospital (all West Memphis), and the Helena-West Helena School District. In addition to the industrial manufacturing sector that contributes approximately 34% of the income and employs approximately 30% of the workforce of the area, retail trade accounts for approximately 19% of the income and employs 27% of the workforce of the area. The distribution of employment and distribution of annual payroll by industry sector in the EARSWMD are shown in the following charts. These charts are based on information available on the Arkansas Department of Economic Development's website <http://www.1-800-arkansas.com>. There are no known economic factors that are expected to significantly impact future waste generation rates beyond the general demographic trends that have already been identified.

**Income Distribution by Sector**  
**East Arkansas Regional Solid Waste Management District**



**Number of Employees**  
**East Arkansas Regional Solid Waste Management District**





#### D. Solid Waste Management Facilities

Table 1 (Appendix D) is a listing of landfills, transfer stations, compost facilities, waste tire processing facilities, collection centers, and other solid waste management facilities within the EARSWMD. Figure 2 shows the locations of the permitted solid waste management facilities within the District.

#### E. Haulers

*A.C.A. §8-6-721. Licensing haulers of solid waste. (a) A person who engages in the business of hauling solid waste must obtain a license from the regional solid waste management board if: (1) The person is engaged in the collection of solid waste within the district; or (2) The person is engaged in the transportation of solid waste for disposal or storage in the district.*

An individual or company that will transport waste within the District must obtain a license from the Board for each vehicle to be used by the hauler. The District may act as a hauler within its own geographical boundaries without obtaining a license. Licenses are issued for a year beginning on November 1 and ending on October 31. Procedures to be followed in obtaining a license from the EARSWMD Board include:

- Prior to November 1 of each year, an application shall be made by a hauler to the Board on supplied forms. Information provided in the application shall include:
  - Name, address and telephone number of hauler,
  - Description of each vehicle to be licensed,
  - Description of the nature of the solid waste and size of loads, and
  - Copy of current liability insurance policy held by the hauler.
- The application shall be accompanied by the appropriate fee (based on number and capacity of vehicles to be licensed). There is no proration of fees.
- The hauler must demonstrate financial responsibility to the Board.

The District's regulations for licensing of haulers states that any hauler that uses a vehicle that has not received a license by November 1 of each year, shall pay the fee for the vehicle and an additional sum equal to the fee due for the vehicle. The hauler is also prohibited from using any landfill facility within the District until the required license is obtained and the fees are paid. Failure to comply with the regulations or a request from the EARSWMD's Environmental Plan Consultant or the Board may result in the termination of a license(s) issued to the hauler.

Terms and conditions of the District's licensing regulation include:

- Solid waste shall be collected and transported so as to prevent health hazards, environmental hazards, safety hazards, or nuisances;
- Collection and transportation equipment shall be designed and constructed so as to be leakproof and the solid waste shall be suitably enclosed or covered to prevent littering and other nuisances;
- Collection and transportation equipment shall be kept in a sanitary condition;
- Regular collection days shall be established, as appropriate, and complaints shall be investigated and answered in a timely manner;

- Appliances, furniture, and other solid waste that cannot be collected during regularly scheduled pickups shall be collected in accordance with the solid waste management plan of the local government;
- Collection and transportation of chemicals, poisons, explosives, radiological waste and other hazardous materials shall be in accordance with state and federal regulations; and
- Solid waste that is collected shall be transported to the District-designated landfill.

Any hauler who fails to comply with the terms and conditions of the District's licensing regulations is required to pay a penalty of \$100 per vehicle to the District for each day of non-compliance. If non-compliance continues for more than 14 days, the penalty increases to \$200 on the 15<sup>th</sup> day per day until the hauler fully complies with the terms and conditions of the regulations. Each day or part of any day during which the hauler continues to operate without a license constitutes a separate violation.

A copy of the District's regulations regarding licensing of haulers is included in Appendix C. An application form for a waste hauler license, a hauler inspection form, and an updated listing of licensed haulers are included as Appendix E.

#### **F. Volumes**

*A.C.A. §8-6-716. Regional needs assessment.(a)....(2) The assessment shall include, at the minimum, the following:*

*(A) An evaluation of the amount of solid waste generated within the district and the amount of remaining disposal capacity, expressed in years, at the solid waste disposal facilities within the district that are permitted under the Arkansas Solid Waste Management Act, § 8-6-201 et seq.;"*

Waste stream characterization, including waste types, amounts, and trends is currently being developed. When the information is available, this Plan will be amended and submitted to the ADEQ.

#### **G. Flow**

*A.C.A. §8-6-716. Regional needs assessment.(a)....(2) The assessment shall include, at the minimum, the following:*

*An evaluation and balancing of the environmental, economic, and other relevant factors which would be implicated by acceptance of solid waste from beyond the boundaries of the district.*

Except cities, municipalities, or subdivisions that may be granted the right by the Board to deliver wastes to other facilities, District regulations stipulate that Class 1 wastes generated in St. Francis, Lee, and Phillips Counties be delivered to the City of West Helena Landfill and that wastes generated in Crittenden, Poinsett, and Cross Counties be delivered to the Crittenden County Landfill. If events occur that preclude either landfill from accepting waste, the wastes will be delivered to the other landfill. A copy of this regulation is included in Appendix C. The communities of Weiner, Waldenburg, Fisher and Fair Oaks currently have been granted approval from the District to transport their waste to the Jackson County Landfill. Waste Management collects commercial and industrial waste from approximately 35 businesses in West Memphis and hauls it to the Waste Management transfer station in Memphis or the Tunica landfill in Mississippi.

The environmental, economic, and other factors that are affected by the acceptance of solid waste from beyond the boundaries of the District and the transfer of solid waste outside the District is

currently being evaluated. When the information is available, this Plan will be amended and submitted to the ADEQ.

#### **H. Economic Impact**

Based on information provided on solid waste surveys during 2004 of the other municipalities within the District, the following costs are incurred by individual cities:

- The City of Marked Tree (Poinsett County) estimates that solid waste services cost about \$200,000 per year.

The 2004 solid waste surveys indicated the following additional expenditures and/or new fees are anticipated:

- The City of Jericho (Crittenden County) anticipates the immediate need for a new garbage truck and rain gear for the maintenance workers. The current truck used for waste pick up is unreliable. Waste disposal rates (currently \$5.00 per month) will need to be raised to cover the anticipated expenditures and increasing fuel costs. The City does not believe the residents can afford an increase.
- The City of Marked Tree anticipates a rate increase at the Crittenden County Landfill and a gas surcharge by the hauler.
- The City of Tyronza (Poinsett County) may impose an additional city sales tax within the next year to fund services.
- The City of Fisher's (Poinsett County) hauling costs for Class 4-type wastes are increasing with increasing gas prices.

No jobs have been created or are maintained in market development or waste tire management. Jobs created and maintained in recycling include nine employees that staff and operate the Northeast Arkansas Recycling Center in St. Francis County. The position of one maintenance worker is maintained in the City of Jericho for picking up and transporting waste to the landfill. Additional information relating to the economic impact of solid waste service is currently being developed. When the information is available, this Plan will be amended and submitted to the ADEQ.

#### **Section 2.105 Current Services**

*A.C.A. §8-6-704. Boards - Powers and duties. "(a) The regional solid waste management boards shall have the following powers and duties:*

- (1) To collect data, study, and initially evaluate the solid waste management needs of all localities within their districts, as provided in § 8-6-716, and to publish their findings as a regional needs assessment;*
- (2) To evaluate on a continuous basis the solid waste needs of their districts, and thereby update the regional needs assessments at least biennially;*
- (3) To formulate recommendations to all local governments within their districts on solid waste management issues, and to formulate plans for providing adequate solid waste management....."*

*A.C.A. §8-6-710. Solid waste management responsibility. (a)(1) Each regional solid waste management board shall be the governmental entity primarily responsible for providing a solid waste management system for the district.*

## **A. Collection Services**

The District has periodically conducted Needs Assessments to evaluate collection services available within the District. Counties and municipalities are responsible for providing adequate solid waste collection systems, unless the District determines that a particular county or municipality is unable to assume that function.

The District has hosted an EPA volume-based pricing satellite downlink. After discussion among the attendees, it was concluded that the EARSWMD is not interested in pursuing this type of payment system at this time.

The District is responsible for waste hauler licensing within the District. The current licensing program is satisfactory and no major changes are expected.

Table 2 (Appendix D) lists the incorporated municipalities within the District, the type of collection service, the funding mechanism, and the population served (if the information is available). In addition, the following services are also provided in unincorporated communities/rural areas with voluntary service:

- Woodard Sanitation collects from 35 households in Vanndale (Cross County).
- Riverside Environmental Disposal LLC collects from 40 households with voluntary service in the unincorporated community of Proctor (Crittenden County).
- Waste Corporation of America collects from rural Phillips County.
- Stricklin Sanitation collects from approximately 300 households in rural Cross County.

The EARSWMD is not aware of any counties or municipalities within the District that do not have access to some type of collection service.

In most communities, the local government takes responsibility for providing access to an adequate system of collection and transportation within their jurisdiction. The Town of Horseshoe Lake (Crittenden County) delegates responsibility for waste collection to individual residents.

It is unknown at this time what percentage of the District's residents do not participate in a collection service. The following information is based on solid waste surveys that were conducted in 2004:

- Poinsett County estimates that approximately 5% of the County's residents do not participate in a collection service.
- Lee County has an exclusive service contract with B & B Disposal for curbside waste collection in the county but estimates that about 40% of the residents do not participate.
- 100% of the residents of Cherry Valley, Elaine, Fisher, Jericho, Lexa, Lepanto, Marked Tree, Marvell, Moro, Tyronza, Waldenburg, and Wynne participate in a collection service.

- Approximately 50% of Anthonyville's (Crittenden County) residents (estimated population 250 people) do not participate in a collection service. Although there is an ordinance (Ordinance No. 2001-10) requiring mandatory participation, it is not enforced.

Mandatory participation in collection and associated fees that are handled by the local government (either municipal or contracted service) is the most effective means of ensuring adequate collection service to the majority of residents within the District.

The following information concerning collection issues has been provided by municipalities on the 2004 solid waste surveys:

- The City of Marked Tree's efforts in solid waste have resulted in a clean city but they have problems keeping contracted waste collection on schedule due to truck breakdowns, inexperienced drivers, and a shortage of labor for the contracted hauler.
- The Town of Jericho has problems with the city-owned truck breaking down and has inadequate funds to purchase a new truck.
- The City of Tyrone experiences occasional delayed pickups of waste by the contracted hauler.
- Mandatory participation in collection (Anthonyville) is sometimes not enforced.

With respect to collection services, the District provides solid waste planning to local governments, conducts the waste hauler licensing program, handles waste tire collection, and oversees contract negotiations between local government and waste hauling companies, when requested.

The vast majority of households and businesses within the District are being served with some type of collection service. Some improvement in services is needed in rural areas and a few municipalities. Additional information relating to the collection of solid waste service is currently being developed. When the information is available, this Plan will be amended and submitted to the ADEQ.

## **B. Disposal Services**

*A.C.A. §8-6-704. Boards - Powers and duties. "(a) The regional solid waste management boards shall have the following powers and duties:*

*(4) To issue or deny certificates of need to any applicant for a solid waste disposal facility permit within their districts with the exception of permits for landfills when a private industry bears the expense of operating and maintaining the landfill solely for the disposal of waste generated by the industry or wastes of a similar kind or character;...."*

The District has periodically conducted Needs Assessments that address waste disposal. The District contracts for professional services to evaluate disposal facilities or services within the EARSWMD, as necessary. The District ensures that regulations and policies are in place that maintain adequate disposal capacity for the District.

The District does not own and/or operate and/or partner with others on any disposal facilities. The following counties and municipality own and operate disposal facilities:

- Crittenden County currently owns and operates a Class 1 landfill and a Class 4 landfill that are located in West Memphis.

- Poinsett County owns and operates a Class 4 landfill that is located in Harrisburg.
- The City of West Helena owns and operates a Class 1 landfill and a Class 4 landfill that are located in West Helena.

The District does not currently provide educational or technical services as they relate to disposal services.

The EARSWMD has formally adopted rules and regulations that ensure proper disposal of all municipal solid waste generated within the District. These documents are included in Appendix C. The District is currently evaluating solid waste disposal needs within the District. When the information is available, this Plan will be amended and submitted to the ADEQ.

### C. Recycling Services

*A.C.A. §8-6-704. Boards - Powers and duties. "(a) The regional solid waste management boards shall have the following powers and duties: .... (7) To establish programs to encourage recycling;....."*

*A.C.A. §8-6-720. Opportunity to recycle - Recyclable materials collection (a)(1) Beginning July 1, 1992, each regional solid waste management board shall ensure that its residents have an opportunity to recycle. "Opportunity to recycle" means availability of curbside pickup or collection centers for recyclable materials at sites that are convenient for persons to use.....et al."*

District staff commits considerable time to recycling education utilizing Ricco, the Recycling Robot. The objective of this educational outreach is to show the general public how solid waste management impacts our lives and behavior. Ricco has appeared throughout the state of Arkansas, speaking to schoolchildren of all ages. He has visited trade shows and festivals in Arkansas, Louisiana, Oklahoma, Missouri and Texas. The District's emphasis on recycling education is based on the belief that significant improvements in recycling rates can only be achieved through changing the mindset of the District's citizens. The District's recycling education program targets educators, citizen's groups, and industrial facilities in the District. The District provides technical assistance to local governments in designing, implementing, and maintaining waste recycling programs.

Residential recyclables are collected through two primary means: curbside or drop-off centers. The District currently has one curbside program (Marked Tree) and nine drop-off locations within the District.



**Ricco, the Recycling Robot**

Commercial recycling in the District could be improved. The District continues efforts to conduct workshops designed specifically for commercial waste producers. The District offers assistance to any grocery store or restaurant owner that requests assistance. Most organic waste from these sources is used as hog feed by local farmers.

The EARSWMD continues to work to improve the diversion of cardboard and office paper and has provided cardboard recycling trailers to businesses located within cities where cardboard recycling is available (Wynne, Harrisburg, Marked Tree, Marianna, Palestine, Madison, West Helena, and Wheatley).

The District's recycling efforts have been limited by funding and recycling success has been limited because it is not one of the highest priorities of District residents in comparison to other issues. Issues such as collection, illegal dump control and abatement, and county road improvements seem to take a higher priority at this time.

Act 749 of 1991 requires each state agency, state college or university, county, city and public school establish a source-separated recycling program. In order to meet this mandate, the District will continue to provide public education, workshops, EPA satellite downlinks, and other training so that each entity can improve its current situation.

The District is responsible for administering the Solid Waste Management and Recycling Grants Program, as part of Regulation 11, within the District. Entities applying for recycling grants complete a pre-application and submit it to the EARSWMD prior to the pre-application deadline date. The ADEQ determines eligible projects from the pre-applications and returns copies of pre-applications to the EARSWMD. The EARSWMD then prioritizes eligible projects and submits complete grant applications to the ADEQ.

During 2003 and 2004, the District has applied for and received recycling grant funds that have been used to:

- Purchase waste oil-burning furnaces for Marked Tree and Wheatley that reduce the cost of heating and save on waste oil disposal costs.
- Purchase a wood chipper for the City of Palestine.
- Purchase a recycling trailer for the City of Weiner.
- Purchase a leaf vacuum for the City of Marvell.
- Purchase a leaf vacuum/mulcher for the City of Turrell.
- Purchase a metal crusher to assist Cross County with the disposal of white goods.
- Purchase a truck to collect and transport chipped wood for the City of Harrisburg.
- Develop poly pipe market opportunities with Delta Plastics of the South by collecting and recycling pipe and educating farmers on handling the pipe.
- Provide for administrative duties associated with the District's recycling programs.
- Continue EARSWMD recycling education programs.

Two schools in the EARSWMD, Weiner High School (2002 and 2003) and the Anna Strong Elementary School in Marianna (2000), have been recipients of the Weyerhaeuser Company

Foundation's annual "Excellence in Recycling" awards in the amount of \$1,000. Weiner High School currently has recycling bins in each classroom for white paper and recycling bins in the lobby for aluminum cans. They built a compost bin for the community and set up outdoor recycling bins so community members can drop off recyclables. They plan to expand their program by involving the Girl Scout troop at Weiner in collecting and sorting recyclables. Funds from this award will be used for signs, recycling bins for the gym, and educational outreach programs to other classes and the community. Anna Strong Elementary implemented recycling of aluminum cans, cardboard, white office paper, and newspaper. Students sort and place the items in containers for delivery to the recycling centers in Marianna and Forrest City. Their award was used to purchase technical assistance, biodegradable bags, collection bins, containers for worm composting, blenders to make recycled paper, rewards and incentives, and transportation for field trips.

A.C.A. §8-6-720 that requires that at least one Recyclable Materials Collection Center be established in each county of a District. The recycling centers within the EARSWMD are:

- Cross County Special Workshop Recycling Center, Wynne.  
Accepts clear glass, old newsprint, aluminum cans, white paper, and textiles. Curbside pickup of cardboard and newsprint is available on request.
- City of Harrisburg Recycling Center, Harrisburg (Poinsett County).  
Accepts cardboard and clear glass. Curbside business pickup of cardboard is available on request.
- City of Marked Tree Recycling Center, Marked Tree (Poinsett County).  
Accepts cardboard, clear glass, and aluminum cans. Curbside business cardboard collection is available on request.
- City of Marianna Recycling Center, Marianna (Lee County).  
Accepts cardboard and newsprint. Curbside business cardboard pickup is available on request.
- City of Palestine Recycling Center, Palestine (St. Francis County).  
Accepts cardboard. Curbside business cardboard collection is available on request.
- Northeast Arkansas Recycling Center, Madison (St. Francis County).  
Accepts cardboard, white goods, aluminum cans, pallets, office paper, computer paper, waste tires, and #1 and #2 plastics. Curbside business cardboard pickup is available on request.
- City of West Helena Recycling Center, West Helena (Phillips County).  
Accepts cardboard. Curbside business cardboard pickup is available on request.
- City of West Memphis Recycling Center, West Memphis (Crittenden County).  
Accepts newsprint, glass, #1 and #2 plastics, steel cans, junk mail, office paper, and computer paper. Curbside collection is available to each home on request.
- City of Wheatley Recycling Center, Wheatley (St. Francis County).  
Accepts cardboard and waste oil. Curbside business cardboard collection is available on request.

The City of Marked Tree has implemented curbside collection of recyclables using "Blue Bags".

The Northeast Arkansas Recycling Center in St. Francis County was established in 1999 using start-up funds that were appropriated by the County. Large trailers are placed around the County and serve as collection points for various recyclable goods. Businesses participating in the recycling



program include Rubitex, Foam Fabrication, Fred's, General Dollar, Sawmill Restaurant, and Sears. Through recycling, some businesses have saved \$500 to \$1,500 per year on landfill (or solid waste) fees. Through aggressively seeking markets for recyclables, operations at the Northeast Arkansas Recycling Center are totally self-sufficient, requiring no state monies. Sales of recyclable materials cover operational costs, wages for nine full-time employees and produce a small profit.

St. Francis County businesses participate in an annual "Clean Out Your Files Day". Sorted office and white paper are collected and donated for recycling.

There are two yard waste composting facilities in the District located in West Memphis and Forrest City.

There is adequate access for residents to participate in recycling through the use of drop-off locations. Recycling rates in the District could probably be improved with the implementation of curbside recycling in more municipalities.

The District is currently developing information concerning the volume and types of recyclable materials. When the information is available, this Plan will be amended and submitted to the ADEQ.

#### **D. Waste Reduction Services**

*A.C.A. §8-6-711. District solid waste management system. (a) A district is authorized to own, acquire, construct, reconstruct, extend, equip, improve, operate, maintain, sell, lease, contract concerning, or otherwise deal in facilities of any nature necessary or desirable for the control, collection, removal, reduction, disposal, treatment, or other handling of solid waste.*

The District hosts source reduction workshops that educate the general public, local government, industry, and educators on the importance of source reduction and how source reduction can be implemented in the home, workplace, or school. The District will continue to provide technical assistance to residents, businesses, and industry that have questions or are in need of onsite help.

Waste reduction within the District, in terms of solid waste that has been diverted from landfills, has been achieved primarily through the recycling programs. The District staff, along with local officials, has had a difficult time convincing local businesses to initiate source reduction. Several businesses that have begun waste reduction programs have realized significant cost savings and consequently, committed to long-term participation.

It is unknown at this time, the extent to which District taxpayers or small businesses take advantage of the Recycling Equipment Tax Credit Program or the loans available through the Small Business Assistance Program for waste elimination or reduction equipment. This information may be available from the ADEQ Tax Credit Administrator at a later date.

#### **E. Special Materials Services**

*A.C.A. §8-6-710. Solid waste management responsibility. (a)(1) Each regional solid waste management board shall be the governmental entity primarily responsible for providing a solid waste management system for the district.*

##### **1. Illegal Disposal Services**

###### **a. Illegal Dumping Services**

The EARSWMD identifies illegal dumps, as part of the on-going needs assessment process. This is accomplished through a variety of methods, including referral, site

inspections, and coordination with the inspection and enforcement activities of the ADEQ. Individual counties are charged with the responsibility of eliminating illegal dumpsites; actual enforcement is through the sheriff's department of the individual county, the Arkansas Forestry Commission, the Arkansas Game and fish Commission, and the ADEQ. The EARSWMD will, on request, notify offenders of the steps required to clean up the dump and the legal consequences for failure to do so.

The District, Counties, or Cities within the District do not employ a licensed Illegal Dumps Control Officer. Crittenden County does employ an environmental officer.

Illegal dumps are primarily identified through citizen's complaints or observation by local authorities. A fly-over survey was conducted approximately 5 years ago by the Civil Air Patrol. Location identification using Global Positioning was conducted for some sites.

The ADEQ Illegal Dumps Database includes the following complaints for illegal dumps that have been filed. Following inspection by the ADEQ, these complaints were considered valid, except where noted.

**Crittenden County:**

- Complaint received in August 2003 against Crisp Contractors, Inc. for an illegal dump located on Bridgeport Road, West Memphis.
- Complaints received in May 2003 against Willie James Chambers, Proctor (unknown whether this is a valid complaint). Physical location of dump and disposition of the complaint is unknown.
- Complaint received in November 2003 against Bud's Rice Mill, Proctor, for an illegal dump located east of the intersection of Highways 70 and 79 (Shearerville), near I-40 exit 265.
- Complaint received in October 2003 against Frank Fletcher for an illegal dump located on McNeely Road in Crittenden County (unknown whether this is a valid complaint). Disposition of complaint unknown.
- Complaint received in June 2004 against Phillip Parker, Marion, for an illegal dump located on Twin Lakes Drive. The inspection report indicated a borrow pit was being filled with materials that are not permissible for use as fill material. A letter was sent to the offender.
- Complaint received in September 2004 against Bud's Rice Mill, Shearerville, for an illegal dump located on US Highway 70, east of Shearerville. The inspector noted a waste pile of several tons of rice hulls. A letter was sent to the offender. Offender reported he was aware of the problem and in the process of removing the waste hulls.

**Cross County:**

- Complaint received in February 2004 against John C. Phillips, Harrisburg, for an illegal dump located about 10 miles south of Harrisburg. The inspector noted garbage, barrels of oil, tires, and appliances were dumped and buried near a sawmill. A letter was sent to the offender.
- Complaint received in July 2004 against Lewis & Son Rice Processing, Earle, for an illegal dump located on County Road 1005. The inspector noted that rice hulls were being dumped and burned. A letter was sent to the offender notifying him of his violations of solid waste and air regulations.

**Lee County:**

- Complaint received in September 2004 against Robert Mooney, Charles Odle, and Danny Odle of Forrest City for an illegal dump located about 2 miles from Forrest City on County Road 225. ADEQ forwarded the complaint to County Judge Jim Keasler. Judge Keasler stated he would take care of the complaint and clean up any waste at the dump site.

**Phillips County:**

- Complaint received in January 2003 against David Griffin of Elaine for an illegal dump located about nine miles south of Elaine at the Mellwood River access. The dumpsite is known as the Old Ratio dumpsite.

**Poinsett County:**

- Complaint received in June 2003 concerning an illegal dump located along the river near Marked Tree. The identity of the violator owner is unknown.
- Complaint received in April 2003 against Charlie Chaney, Harrisburg, for an illegal dump located at his residence on Bay Lane in Harrisburg.
- Complaint received in September 2003 against John Ratliff, Harrisburg, for an illegal dump located near the railroad tracks on Hamilton Street.
- Complaint received in October 2003 for a roadside dump in Poinsett County located on Bayou Devieu Road. The site is adjacent to the Bayou Devieu Wildlife Management Area. The waste consists of appliances, tires, and other bulky waste. Identity of the violators could not be determined. No further action is to be taken by the ADEQ.
- Complaint received in May 2003 against Poinsett County for an illegal dump located near Harrisburg. The complaint was referred to the Hazardous Waste Division of the ADEQ.
- Complaint received in April 2004 for illegal dumping in a ditch on Pleasant Grove Lane, north of Harrisburg. The identity of the violator(s) is unknown and the inspector indicated that he would forward the complaint to County Judge Hollis.

- Complaint received in July 2004 against Wayne Brown, Lepanto, for an illegal dump located near Diana St. in Lepanto. The waste consists of demolition waste and about 150 old tires. The inspector spoke with and sent a letter to the offender.
- Complaint received in August 2004 against Frankie Hinshaw, Jonesboro, for an illegal dump located about 8 to 9 miles southeast of Jonesboro (unknown whether this is a valid complaint).

**St. Francis County:**

- Complaint received in March 2003 against Randy Baldwin, Forrest City, for an illegal dump located on SFC 324 near Forrest City.

The following information was provided on the 2004 solid waste surveys of counties:

- In 2001, approximately 20 illegal dump sites were cleaned up in Cross County. No sites were cleaned up in the past year. County officials estimate that there are currently 10 or more illegal dump sites located in Cross County.
- Poinsett County used volunteers and inmates to clean up illegal dumps in 2003. County officials do not know how many illegal dumps are currently located in the County.
- Lee County's Road Department continues to clean up illegal dumps on an on-going basis. County officials do not know how many illegal dumps are currently located in the County.

The District is continuing to develop information on illegal dumps in the District. When the information is available, this Plan will be amended and submitted to the ADEQ.

Funding of clean up of illegal dumps by counties is an on-going problem. A source of funding for the counties to have the resources required to clean up illegal dumps is needed. Increasing participation in collection services in some parts of the District and/or periodic collection of bulky wastes by local governments might minimize illegal dumping in the future.

The District's educational outreach program includes the topic of illegal dumps. Information concerning illegal dumping is also included on the EAPDD's website.

The District is currently developing additional information concerning illegal dumps within the District. When the information is available, this Plan will be amended and submitted to the ADEQ.

**b. Litter Services**

The District does not conduct any coordinated litter programs but does promote litter control in education programs.

The Arkansas Highway and Transportation Department contracts with an independent firm that mows the highway right-of-ways. Before mowing, the crews pick up litter and other debris. Roadside litter is periodically conducted under work release programs from jails or prisons and by civic or church groups.

Based on the 2004 solid waste surveys the following municipalities have ordinances in place concerning solid waste and litter:

- The Town of Anthonyville's (Crittenden County) Ordinance No. 2001-10 (March 2001) requires that residents and businesses provide suitable containers or barrels for waste to prevent waste from being blown or scattered about.
- The Town of Jericho (Crittenden County) has an ordinance in place (1999-7) that requires premises to be kept free of garbage, rubbish, and other unsightly and unsanitary articles. Another ordinance (99-8) prohibits the storage of inoperable motor vehicles on private premises.
- The City of Cherry Valley (Cross County) has an ordinance that prohibits placing waste paper, trash, or garbage on streets, sidewalks, alleys, public places, or city property.
- The City of Marked Tree's (Poinsett County) Ordinance No. 267 was adopted in December 2003 and requires bins for garbage disposal to minimize the problem of garbage being scattered by animals or otherwise.
- The City of Tyronza's (Poinsett County) Ordinance No. 1999-3 requires that garbage be placed in plastic bags not less than 2 ply and 1½ mil thickness to prevent scattering. The City's Ordinance No. 1990-7 prohibits excessive garbage or trash and abandoned vehicles on real property within the city limits and addresses cleanup/removal.
- Forrest City's (St. Francis County) Ordinance No. 1060 requires that waste be placed in containers such that the contents cannot blow away or be scattered. The ordinance also prohibits placing waste paper, trash, or garbage on any street, sidewalk, alley or public place within the City.

Roadside cleanups are conducted in St. Francis County using laborers from the St. Francis County jail. Annual or semi-annual city-wide cleanup days/weeks are also held in the communities of Wheatley, Forrest City, Horseshoe Lake, Waldenburg, Marked Tree, and Tyronza. Volunteers from church groups periodically pick up litter in Elaine.

The District is currently developing additional information concerning litter control within the District. When the information is available, this Plan will be amended and submitted to the ADEQ.

### **c. Open Burning Services**

The District refers open burning issues to the ADEQ's Air Division under Regulation 18, the Arkansas Air Pollution Code. For example, in association with a complaint in July 2004 for rice hulls that were being dumped and burned near Earle, the ADEQ inspector found that the site was in violation of Arkansas Air Pollution Control Code. The property owner was advised by the ADEQ to cease open burning or face formal enforcement action.

Based on the 2004 solid waste surveys, the following municipalities have ordinances in place concerning open burning:

- The City of Marked Tree (Poinsett County) has an ordinance prohibiting the burning of trash or other refuse.
- The City of Cherry Valley's (Cross County) Ordinance No. 64 prohibits the burning of waste on sidewalks, streets, alleys, public places, or city property.
- Forrest City's (St. Francis County) Ordinance No.1060 prohibits burning waste paper, trash, or other garbage on any street, sidewalk, alley or public place within the City. The City's Ordinance No. 1350 prohibits bonfires or burning of trash, lumber, leaves, straw, or any other combustible material in any street or alley, or on any premises or vacant lot unless burning is done in covered receptacles of not more than 1¼-inch expanded wire mesh. Other provisions for burning are contained in the ordinance (see Appendix C).

The District does not currently provide educational or technical services as they relate to open burning. Open burning occurs occasionally within the District but is not considered a pervasive or persistent problem.

The District is currently developing additional information from municipalities regarding ordinances prohibiting open burning. When the information is available, this Plan will be amended and submitted to the ADEQ.

## 2. Waste Tire Services

*A.C.A. §8-9-405. Waste tire grants. "(a) The Arkansas Department of Environmental Quality shall, by July 1, 1992, establish a program to make waste tire grants to regional solid waste management boards which desire, individually or collectively, to: (1) Construct or operate, or contract for the construction or operation of, a waste tire processing facility and equipment purchases therefor;.....et al."*

### a. Waste Tire Program Services

The EARSWMD does not provide for waste tire program services within the District. The EARSWMD, Northeast Regional Solid Waste Management District, and the Mississippi County Regional Solid Waste Management District joined together in 1993 to form the 11-county East Arkansas Waste Tire District (EAWTD). The Inter-District Waste Tire Management Program Agreement is included in Appendix E. The Tire District was formed to pool resources and funds and to provide centralized waste tire planning, collection, and processing for the entire region. The EAWTD appointed the staff of the EAPDD to be the administrators of the Tire District in an agreement dated October 23, 1997. The EAPDD staff, as administrators, has the primary responsibility for the day-to-day operations of the Tire District. The EAWTD operates twelve waste tire collection sites and has a contracted hauler and disposal/processing company. The six Waste Tire District's collection sites listed below are located within the EARSWMD:

- **Crittenden County** – Crittenden County Landfill  
1300 West Barton  
West Memphis, Arkansas

- **Cross County** – Cross County Special Workshop  
506 E. Merriman  
Wynne, Arkansas
- **Lee County** – Lee County Road Shop  
529 Hwy 243  
Marianna, Arkansas
- **Phillips County** – Phillips County Maintenance Shop  
8070 Hwy 49  
West Helena, Arkansas
- **Poinsett County** – Poinsett County Class 4 Landfill  
704 Northeast St.  
Harrisburg, Arkansas
- **St. Francis County** – Northeast Arkansas Recycling Center  
604 MLK Drive  
Madison, Arkansas

All the collection sites are located on public property, with the exception of the Cross County Special Workshop. Each collection site is operated in accordance with the hours of operation of that particular county. The collection sites are closed on the same days the county observes holidays. The Cross County Special Workshop hours of operation are listed on the Center's front door. Signs, for the most part, are not posted. The EAPDD website includes a page that shows a map with the locations of the tire collection centers in each county.

Waste tire services (collection, hauling, processing, and disposal) are contracted by the EAWTD to Eaton Moery Environmental Services, Inc. (EMS). The existing contract is in effect until June 30, 2006 (a copy of the current contract is included in Appendix E). Waste tires are collected in a single 40-cubic yard roll-off container that is also used for hauling. The container is marked to include collection of waste tires only. Each container must be hauled by the contractor within 24 hours of notification. Any collection container not removed within a 24-hour period results in \$100 fine to the contractor. Following collection, the tires are then transported to the EMS facility located in Parkin, Arkansas for processing or disposal.

The EAWTD is required under Arkansas Regulation 14 to collect and dispose of fee-paid tires within the EAWTD's boundaries at no charge. The EAWTD is allowed, by law, to levy additional fees on semi-truck tires and local fees on other tires that are not included in the Arkansas waste tire fee program. Due to row crop production and semi-truck traffic, the EAWTD handles high volumes of farm implement tires and semi-truck tires that have been purchased out-of-state, neither of which are included in the current Arkansas tire fee program. In February 1998, the EAWTD passed a resolution (included in Appendix C) to assess a fee on all tires brought to collection centers for which a fee had not been previously paid (based on tax reporting forms provided to the Arkansas Department of Finance & Administration). The EAWTD began assessing in April 1998. Current fees are as follows:

- \$1.75 per passenger tire,
- \$1.75 per four-wheeler or lawnmower tire,
- \$5.00 per semi-truck tire,
- \$5.00 per four-wheel drive front tractor tire, and
- \$26.00 per large farm implement or off-road tire.

Since inception of the new fee program in 1998, the number of waste tires collected in the EAWTD has decreased. The District staff attributes this decrease to a reduction in the number of out-of-state tires being disposed within the District due to the imposed fee.

The District's educational outreach program to the general public includes a discussion of waste tires.

The current contract for waste tire management services is included in Appendix E. The District's policies and procedures pertaining to waste tire issues are included in Appendix C. This waste tire program adequately serves the needs of the District.

#### **b. Waste Tire Counting Services**

The EARSWMD does not provide for waste tire counting within the District. Waste tires within the District are collected at the six tire collection centers listed in Section 2.105 (E)(2)(a). The Tire District provides the manifest forms and only original copies are accepted at the collection centers. Forms are available and can be picked up at any of the collection centers, or by calling the EAWTD office. Copies of completed manifests are provided to the waste tire generator, waste tire hauler, waste tire collection site, and the EAWTD. The collection site retains copies of manifests for a period of one year. The EAWTD retains copies of manifests for a period of three years.

The EAWTD maintains records of the number and sizes of tires that are received at the centers. During the calendar year ending December 31, 2003, the following tires were received:

- 146,078 passenger tires,
- 41,566 truck tires, and
- 1,178 specialty tires.

A total of 188,822 tires were dispatched for disposal or processing during 2003.

EMS transports tires from the collection facilities to the EMS facility located in Parkin, Arkansas for processing or disposal. EMS reports that 80% of tires are monofilled and 20% were processed for tire chips for drainage.

The current system of waste tire counts in the District is satisfactory.

#### **c. Waste Tire Site Control Services**

The EARSWMD does not provide for waste tire site control within the District. The EAWTD completes the annual Waste Tire Site Report that is required under Arkansas Regulation 14.

The EAWTD monitors the movement of tires within the District and, as a result, a very low number of waste tires are not properly processed or disposed within the District. If enforcement is needed, the EAWTD will work with the ADEQ and local law enforcement officers to resolve the issue.



The EAWTD maintains an abatement reserve account to cover costs associated with waste tire sites. When necessary, the EAWTD handles small abatement sites by utilizing local county/state inmate labor to load waste tires into 40-cubic yard roll-off containers. The EAWTD attempts to prosecute persons responsible for waste tire sites, if identified. Access to the sites is restricted after abatement.

Arkansas Regulation 14 defines a waste tire site as a site where 1,000 or more used or waste tires are accumulated in the outdoors. Waste tire sites are identified by complaints from citizens or local government. According the Waste Tire Site Report that was submitted in June 2004 for the East Arkansas Tire District under Arkansas Regulation 14, no waste tire sites are known to currently exist in the District. No waste tire sites were abated during the last calendar year (2003).

The current system of waste tire site management adequately serves the needs of the District.

### **3. Batteries Services**

District residents may turn in the batteries at retail outlets that sell new batteries. The District, or counties within the District, do not have management plans in place for lead-acid batteries.

The District does not conduct or coordinate any programs that manage or recycle household batteries.

The current system of battery management in place in the EARSWMD could be improved. The District does not currently provide educational or technical assistance for battery management and there are no specific collection centers.

### **4. Waste Oil Services**

The District does not implement waste oil services. The District has disbursed grant funds that enable entities within the District to purchase furnaces that use waste oil for fuel.

Based on information provided on the 2004 solid waste survey:

- Poinsett County burns its own waste oil for energy. Citizens are also able to dispose of waste oil at the County's collection location for burning.
- Waste oil in Cross County is currently collected and burned as fuel for a furnace. The furnace was purchased using ADEQ Recycling Grant monies.
- Lee County does not have a management plan in place for waste oil or other automotive fluids.
- Marked Tree and Wheatley collect waste oil for fuel used in furnaces.

Retail automotive businesses collect waste oil for pickup by contracted vendors.

The District does not currently provide educational or technical services as they relate to waste oil services. The quantity of oil recovered in 2003 in the District is unknown. The current system of waste oil management in the EARSWMD could be improved with designated waste oil collection centers and contracted vendors for processing/disposal. The District would like to establish at least three motor oil collection sites within the District.

The District is currently developing additional information concerning waste oil management in the counties and municipalities. When the information is available, this Plan will be amended and submitted to the ADEQ.

#### **5. Medical Waste Services**

The District does not play any role in the development or implementation of medical waste services. Hospitals, medical, or other facilities that general medical waste may transport the waste to an offsite permitted treatment or disposal facility or may transfer custody of untreated waste to a transporter that is permitted by the Arkansas Department of Health.

#### **6. Hazardous Waste Services**

The District does not play any role in the development or implementation of hazardous waste services. Questions that arise are referred to the Hazardous Waste Division of the ADEQ.

#### **7. Household Hazardous Waste Services**

Household hazardous chemical wastes are accepted at the District's Class 1 Landfills for disposal. The District does not currently conduct household hazardous chemical waste collections or provide educational or technical services associated with household hazardous chemical waste.

Efforts to divert household hazardous wastes from the landfills could be improved. The District would like to fund a rotating household hazardous waste collection site within the District, however funding will be difficult.

#### **8. Waste Electronics Services**

At this time, the District, or other public or private entities within the District, have not developed or implemented waste electronics services. Currently, waste electronics are disposed with municipal waste at the District's Class 1 Landfills.

Electronic waste (e-waste) is the fastest growing component of the daily waste stream and will increasingly consume more and more valuable airspace in the Class 1 Landfill. Hazardous waste generated in households is not regulated; however, due to the hazardous elements found in electronics, the ADEQ discourages landfill disposal. There is a need within the District for the development of either a public or private waste electronics disposal program and an associated public education program.

#### **9. Construction and Demolition Waste Services**

The District's role in construction and demolition waste services includes in general efforts to provide solid waste planning to local governments and in the licensing of haulers.

Construction and demolition (C & D) waste from the EARSWMD is disposed at one of the three Class 4 Landfills. Contractors and/or licensed haulers transport the waste as it is generated to the facilities.

The District's education efforts relating to construction and demolition waste services include general public education and technical assistance, when requested.

The current system of management of construction and demolition waste in the District is satisfactory.

## **10. Other Solid Wastes Services**

The District provides technical assistance for other solid wastes, when requested. The District staff and Board members receive continuing education to keep the District updated on new programs and new equipment associated with solid waste issues.

A white goods collection was sponsored by NUCOR, a Blytheville steel company in January and February of 2001 in St. Francis County. Over 26.5 tons of white goods were recovered and recycled. Similar collections in other areas of the District could be conducted and with corporate sponsorship, could be an affordable means for the District's citizens to properly dispose of these wastes.

Dumping of rice hulls, and burning in some cases, has been an occasional problem in the District. Educating rice processors on proper disposal options and solid waste regulations is a need.

## **F. Education and Public Awareness Services**

### **1. District's Role**

The District works with local Chambers of Commerce and local officials to advertise the District's services. Workshops are scheduled periodically and technical assistance is provided, as requested, to help businesses and industries.

District staff commits considerable time to education targeting educators, citizen's groups, and industrial facilities in the District. District staff have worked in concert with the ADEQ staff to provide solid waste education to several parts of the State.



**Recycling Education for  
Cub Scout Group**

### **2. Active Persons/Organizations**

Other than District staff, it is unknown if there are other individuals or organizations that are active in education/awareness on solid waste issues within the District.

### **3. Active Programs Utilized**

The EARSWMD participates in the ADEQ's Environmental Education Programs, Recycling Grants Program, Illegal Dump Eradication and Corrective Action Program, and Waste Tire Program.

**4. Active Individuals**

Several school teachers and local officials have worked in concert with District staff in providing education for school children and adults in the District regarding solid waste issues.

**5. District Programs**

The District is not aware of any in-house, industrial and other solid waste educational programs, litter programs, illegal dumping prevention programs, or others that have not been previously mentioned.

**6. Communication Strategies**

Prior to the adoption, amendment, or repeal of any rule or regulation, the EARSWMD Board publishes a notice at least 20 days in advance in the Arkansas Democrat Gazette. All interested parties are afforded the opportunity to submit written data, views, or arguments prior to consideration of the issue by the Board.

The EARSWMD maintains a website that provides information on specific programs and guidelines.

**7. Public Meetings/Communication**

The EARSWMD Board, at its discretion, may direct that oral testimony or arguments be received by the Board prior to the adoption, amendment, or repeal of any rule or regulation. There are no regularly scheduled forums.

The EARSWMD Board meets, as necessary, at the offices of the East Arkansas Planning and Development District, 2905 King Street, Jonesboro, Arkansas.

The District promotes and hosts educational workshops and satellite forums, some of which are open to the general public. The District's educational outreach program includes topics such as illegal dumping.

**8. Internet Access**

The EAPDD maintains a website (<http://www.eapdd.com>). A link on the website for waste management includes information on recycling and recycling education, recycling centers in the EARSWMD, illegal dumping, the EAWTD program, and waste hauler licensing. Projects are also highlighted on the website such as the Northeastern Arkansas Recycling Company that is located in St. Francis County and the asphalt rubber demonstration project in St. Francis County.

Contact information for the staff at the EARSWMD is provided. The website is updated as necessary.

**9. Publications**

The District does not currently publish any publications or newsletters.

**10. Progress/Setbacks**

Educational outreach using Ricco, the Recycling Robot has been successful by promoting public awareness at schools, trade shows and festivals in the District, as well as Arkansas and other states. One setback that the District has experienced has been poor attendance at District-hosted educational workshops in the past.

**11. Educational Needs**

In conjunction with developing poly pipe market opportunities for pipe that is used for agricultural irrigation systems, the District needs to educate farmers on handling the pipe. Another area that could be developed is educating rice processors on proper handling of rice hulls and solid waste regulations. The District will host educational workshops in the future if there are indications that there is a need and that there will be sufficient attendance

**G. Other Services**

**1. Transportation**

The District Board adopts regulations concerning transport of waste into and out of the District and grants approval for waste to be disposed outside the District, when requested and/or necessary. The District implements the Waste Hauler Licensing Program for the District.

A few municipalities have requested, and been granted, approval to transport waste to the Jackson County Landfill because of its proximity. The District has contracted with an outside firm to evaluate the existing disposal facilities in the District, their locations, and flow of waste within the District. Within the next year, this evaluation will be used to recommend any necessary changes to the transportation of waste within the District both in the short-term and long-term.

**2. Miscellaneous**

The roles the District plays in the development and implementation of solid waste services have been described in previous sections.

## **PART TWO - CHAPTER TWO — ACTION PLAN**

A.C.A. §8-6-710. Solid waste management responsibility. (a)(1) Each regional solid waste management board shall be the governmental entity primarily responsible for providing a solid waste management system for the district.

### **Section 2.201 Mission Statement**

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The EARSWMD board has not adopted a formal mission statement.

### **Section 2.202 Executive Summary**

#### **A. Strategies**

The principal objective of the EARSWMD is to plan adequately for management of solid waste within the District boundaries. To achieve this goal, the District implements regulations and policies that ensure that solid waste within the District is collected and properly disposed. In addition, it performs needs assessments to evaluate the existing solid waste management system and to determine if there are any problems or opportunities for improvement. Recycling and waste reduction are promoted through education and implementation of programs that facilitate community participation. Other functions of the District include:

- Identification and assistance in the closure of illegal dump sites;
- Licensing of solid waste haulers;
- Technical assistance for handling and disposal of special materials, as needed; and
- Coordination of environmental education programs.

In addition, the EAPDD staff and Board members will continue to be active in local, state, and national programs. Continuing education for the staff and Board members will also be provided as needed to keep the District updated on new programs and new equipment associated with recycling, solid waste, and waste tires.

Annual updates to this Plan will be conducted to evaluate the projected demand for and life of existing disposal facilities and to identify problems as they may occur.

#### **B. Outlook**

It is the intention of the EARSWMD to help provide all residents in the District with adequate solid waste collection in a manner that discourages illegal dumping and promotes a clean, safe, and effective collection system.

Solid waste management efforts during the next decade should be directed at diverting as much waste as possible from the landfill(s) through waste reduction and recycling. Public and community participation through education and incentives will play an integral part in these efforts.

## Section 2.203 Goals

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### A. District's High Level Goals

With the ADEQ's Land Objectives and the Solid Waste Management Division's High-Level Goals in mind, the following three high-level goals for the EARSWMD have been established for the next decade:

- High Level Goal A: By 2013, all solid waste management facilities will be within 90% compliance of operation performance standards.
- High Level Goal B: Increase recycled, reclaimed, or reused waste by 20% by 2013.
- High Level Goal C: Reduce the amount of solid waste sent to landfills by 25% by 2013.

### B. District's Plan's Goal Areas

#### 1. Collection

All residents within the District have access to waste collection services that are provided by either public and private haulers. Curbside collection in the rural portion of the District is done on a voluntary basis with residents directly contracting with private haulers. The participation rate of the rural community for curbside collection is unknown. The following is the collection system goal for the District:

**Goal:** The District will perform an assessment to determine if there is a need to improve the participation rate for rural collection. The assessment will be completed by the end of 2005, and goals for any improvements in the system will be established by the end of 2006.

#### 2. Disposal

It is a priority of the District to have solid waste facilities within the District that are compliant with all State and Federal regulations and to ensure that there is adequate landfill capacity to properly dispose of all waste generated in the District.

Currently, there is no household hazardous waste (HHW) or waste electronics (e-waste) collection facility within the District. Diversion of these types of wastes would reduce the amount of waste being disposed and increase the amount of recycling in the District as outlined in High Level Goals B and C above. The following are the disposal goals for the District:

**Goal:** Evaluate the existing Class 1 landfills in the District (West Helena and Crittenden County) and Class 1 landfills within 50 miles of the District boundaries. The evaluation will be completed in 2005. The evaluation will include:

- A review of the operational record, compliance issues, estimated disposal capacity and remaining life, potential for expansion, potential for closing, financial assurance, and tipping fees.
- A rate study of the two District Class 1 landfills.
- A cost analysis for transferring waste to the facilities located outside of the District.
- A cost analysis for the development of a new Class 1 landfill located in the District that would have the capacity to accept the entire District's waste.

**Goal:** Evaluate the feasibility of establishing a permanent or mobile (rotating) HHW or e-waste collection facility in the District by the end of 2007.

### 3. Recycling

The District will continue to provide public and private assistance on providing the most economical ways to begin and maintain recycling programs. The District would like to implement paper, cardboard, and steel recycling at all public schools and cafeterias located within the District. Where recycling is available, the District would like to establish recycling programs for festivals, fairs, and other large events. Another goal is improve the markets associated with recycled and composted material.

The District hopes to work with the Agricultural Container Research Council, County Cooperative Extension Services, and the local co-ops to provide yearly grinding services for old plastic chemical containers and old poly pipe. The District's goal is to establish at least one poly pipe recycling location within the District.

The District does not currently provide educational or technical services as they relate to waste oil services. The quantity of oil recovered in 2003 in the District is unknown. The current system of waste oil management in the EARSWMD could be improved with designated waste oil collection centers and contracted vendors for processing/disposal. The District would like to establish at least three motor oil collection sites within the District.

Recycling education and awareness programs for the citizens and industries of the District will be continued in an effort to increase the overall recycle rate to meet the High Level Goal of 20% by 2013. This will include education about the Recycling Equipment Tax Credit Program and loans available through the Small Business Assistance Program for waste elimination or reduction equipment.

The District would like to see compost programs established at each landfill and eventually expand the program to other cities and counties within the District. The District's long-term goal is to provide each county and city with the equipment necessary to handle wood and yard waste for recycling and/or reuse.

The District's recycling goals are:

**Goal:** Develop and implement a program for establishing recycling programs in schools within the District. The program will be developed by the end of 2006 and implementation will begin in 2006.

**Goal:** Determine methods for improving the markets for recyclable and composted materials in the District by the end of 2006.

**Goal:** Establish a program with the local agriculture community for recycling poly pipe materials by the end of 2007.

**Goal:** Evaluate the feasibility of establishing a program for collection of waste oil in the District. The evaluation will be completed by the end of 2006 and implementation will begin in 2007, if feasible.

**Goal:** Evaluate the feasibility for developing additional composting facilities in the District. The evaluation will be completed by the end of 2007.

**Goal:** Evaluate the feasibility to establish curbside or compartmentalized recycling collection in additional communities in the District. The evaluation will be completed by the end of 2005.



#### **4. Waste Reduction**

The District will continue to provide public and private technical assistance, along with workshops, that encourage source reduction and demonstrate the potential for reuse. The District will host source reduction workshops that explain how source reduction can be implemented in the home, workplace, or school.

Business-specific tool kits and EPA documents will be utilized to develop specific business source reduction programs and encourage source reduction, on both large and small scales. Also, the District will continue to work with local Chambers of Commerce to provide technical assistance and workshops for industry.

**Goal:** Develop method for educating citizens and industries of the District about waste reduction by the end of 2007.

#### **5. Special Materials**

##### **a. Illegal Disposal**

##### **i. Illegal Dumping**

Illegal dumping within the District occurs on an infrequent basis. However, the District intends to develop a program to discourage illegal dumping.

**Goal:** Evaluate the feasibility of developing a program on illegal dumping for the District. The evaluation will be completed by the end of 2006, and if feasible, goals for implementation will be developed in 2007.

##### **ii. Litter**

Litter control is not a pervasive problem within the District, and therefore, there currently is not a formal program for education related to litter in the District. The District does not have any plans for development of such a program.

##### **iii. Open Burning**

The District does not currently provide educational or technical services as they relate to open burning. Open burning occurs occasionally within the District but is not considered a pervasive or persistent problem. The District does not have plans for development for a program on open burning.

##### **b. Waste Tires**

As discussed in Section 2.105 (E)(2), the EARSWMD is not responsible for waste tire issues within the District.

The EAWTD is actively working on three major projects to develop markets for waste tires:

1. The staff of the EAWTD and the St. Francis County Judge are conducting a demonstration project for that county using asphalt rubber and conventional asphalt along a two-mile stretch of paved county road to test the performance characteristics of both pavements over a several year period. The University of Arkansas

Engineering Department in Fayetteville, Arkansas tests and monitors the performance of the pavements.

2. Promotion of the use of tire chips as fall-zone protection in playgrounds, and
3. Promotion of the use of waste tires as a fuel for power plants.

The EAWTD's goals for waste tire services are to:

**Goal:** Develop markets that use 100% of the waste tires generated in the EAWTD by 2013,

**Goal:** Continue the training provided to those responsible for waste tire policies (EAWTD staff, waste tire chairmen, and Board members) that enables them to maintain a high level of knowledge on current waste tire issues and processing/disposal options (on-going), and

**Goal:** Keep an adequate reserve account available for unforeseen waste tire-related problems (on-going).

**c. Batteries**

The current system of battery management in place in the EARSWMD could be improved. The District does not currently provide educational or technical assistance for battery management and there are no specific collection centers.

**Goal:** Evaluate the feasibility for the development of a battery collection program for the District. The evaluation will be completed by the end of 2006, and if feasible, goals for implementation will be completed by the end of 2007.

**d. Household Chemical Waste**

The District currently does not have a program for the collection of household chemical waste (or HHW) and would like to develop one to address this waste stream.

**Goal:** Evaluate the feasibility of establishing a permanent or mobile (rotating) HHW collection facility in the District by the end of 2007.

**e. Waste Electronics**

The District currently does not have a program for the collection of waste electronics. However, the District may be able to establish a program through a grant from ADEQ as allowed by The Electronic Solid Waste Management Act. This act established the Computer and Electronic Recycling Fund, that is administered by the ADEQ, and allows grants to be awarded for the development of programs to properly dispose of electronic equipment, either by de-manufacturing or recycling.

**Goal:** Evaluate the feasibility of establishing an e-waste collection facility in the District by the end of 2007. If the evaluation indicates the need for such a facility, apply for grant to establish the program in 2008.

**f. Construction and Demolition Waste**

The District currently does not have a construction and demolition (C & D) waste reduction program.

**Goal:** Evaluate the feasibility of establishing a C&D waste reduction program in the District. The assessment will be completed by the end of 2008.

**g. Other Solid Wastes**

Based upon the success of the white goods collection in conjunction with Nucor Steel and St. Francis County in 2001, the District would like to develop a program for the collection and recycling of white goods in the District.

Because dumping of rice hulls, and burning in some cases, has been an occasional problem in the District, educating rice processors on proper disposal options and solid waste regulations is a need.

**Goal:** Evaluate the feasibility for development of a white goods collection program for the District. The evaluation will be completed by the end of 2007.

**Goal:** Develop information (by the end of 2006) to be included with existing District educational information about disposal of rice hulls.

**6. Education and Public Awareness**

Providing solid waste management education to the citizens and industries with the District is a priority. The District will work towards improved educational programs by promoting cooperation between local municipal judges, prosecuting attorneys, local sheriff deputies, and private citizens. In addition, the District website will be updated as necessary to provide current information.

The District also wants to be more visible to the general public through educational workshops and programs. This improved public awareness will encourage the general public to contact the District staff for assistance on solid waste issues. The District would like to establish a day-long educational program for children at Village Creek State Park.

**Goal:** Develop education workshop/program for solid waste management issues to be used throughout the District. Program will be developed and implemented by the end of 2008.

**Goal:** Develop a day-long educational program for children at Village Creek State Park by the end of 2008.

**Section 2.204 Goal Areas - Objectives**

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A.C.A. §8-6-710. Solid waste management responsibility. a)(1) Each regional solid waste management board shall be the governmental entity primarily responsible for providing a solid waste management system for the district.

**A. Collection**

Problems

The participation rate in curbside collection in the rural parts of the District is not known.

Solutions

1. Perform an assessment of the rural collection system to determine the participation rate and determine if improvements are necessary.

**B. Disposal**

Problems

1. Most of the MSW from the District typically has been disposed in either of the two Class 1 landfills within the District, with some taken to out-of-District facilities. The two District facilities have had historical compliance and operational problems, and the future capacity of these facilities is not well known.
2. There is not a program for separate collection of HHW and E-waste waste streams in the District.

Solutions

1. Perform an evaluation of the District's two Class 1 landfills and determine if the facilities can provide adequate future disposal capacity in compliance with State and Federal regulations.
2. Evaluate the feasibility of establishing a HHW and E-waste collection facility in the District.

**C. Recycling**

Problems

Recycling participation and volume of materials recycled need to be increased.

Solutions

1. Establish recycling programs in schools within the District.
2. Develop methods for improving markets for recyclable and composted materials in the District.
3. Investigate the feasibility of recycling poly pipe that is used for agricultural irrigation systems.
4. Evaluate the feasibility of establishing a program for the collection of waste oil in the District.
5. Evaluate the feasibility of developing additional composting facilities in the District.
6. Evaluate the feasibility of establishing curbside or compartmentalized container collection of recyclable materials in the District.

**D, Waste Reduction**

Problems

Knowledge of waste reduction techniques and programs is minimal.

Solutions

1. Expand District information to include information on waste reduction techniques and opportunities.

**E. Special Materials**

Problems

1. Illegal dumping continues within the District.
2. The District currently does not have a HHW collection program.
3. The District currently does not have an e-waste collection program.
4. The District currently does not have a C & D waste reduction program.
5. The District currently does not have a white goods collection program.

Solutions

1. Evaluate the feasibility of establishing an illegal dumping program for the District.
2. Evaluate the feasibility of establishing a HHW collection facility in the District.
3. Evaluate the feasibility of establishing an e-waste collection facility in the District.
4. Evaluate the feasibility of establishing a C & D waste reduction program for the District.
5. Evaluate the feasibility of developing a white goods collection program for the District.

**F. Education and Public Awareness**

Problems

Knowledge of solid waste issues in the District can be improved.

Solutions

1. Develop education workshop/program for solid waste management issues to be used throughout the District.
2. Develop a day-long workshop for children to be held at Village Creek State Park.

**Section 2.205 Administrative**

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**A. Plan Implementation**

Upon approval of this Plan by the ADEQ, the EARSWMD Board will review the goals and preliminary implementation timetable and develop a list of priorities for the District. A final implementation timetable will be developed and appended in the Plan. Any changes to the goals and timetable will be submitted to the ADEQ.

## **B. Implementation Timetable**

A preliminary implementation timetable is provided Appendix D.

## **C. Funding and Budget**

The District's financial audit for the fiscal year ending June 30, 2003 is included in Appendix E of this Plan. The audit provides financial information about the District and its various programs.

As stated previously, the District is currently adequately staffed and there are no plans for hiring additional staff in the near future.

## **Section 2.206 Legislative Studies**

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The District typically notifies the local representative of the Arkansas legislature if there are any issues that it feels need to be addressed. At this time, there are not any specific issues that it wishes to see addressed by the Arkansas Legislature.

## **Section 2.207 Appendices**

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The following appendices are included with this plan:

- Appendix A - Administrative Procedures
- Appendix B - By-Laws
- Appendix C - Regulations and Ordinances
- Appendix D - Tables, Charts, Graphs and Maps
- Appendix E - Other Information

Table 3. Preliminary implementation timetable for East Arkansas RSWMD.

Goal	Proposed Year of Completion								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
<u>High Level Goals:</u> <ul style="list-style-type: none"> <li>90% compliance of operation performance standards</li> <li>Increase recycling by 20%</li> <li>Reduce amount of solid waste sent to landfill by 25%</li> </ul>									• • •
<u>Collection:</u> <ul style="list-style-type: none"> <li>Rural collection system assessment</li> <li>Develop goals for improving rural collection system (if necessary)</li> </ul>	•	•							
<u>Disposal:</u> <ul style="list-style-type: none"> <li>Evaluation of District landfills</li> <li>Evaluate the feasibility of establishing HHW and e-waste collection facility</li> </ul>	•	•							
<u>Recycling:</u> <ul style="list-style-type: none"> <li>Develop program for recycling in schools</li> <li>Establish poly pipe recycling program</li> <li>Evaluate feasibility of waste oil program</li> <li>Evaluate feasibility of additional composting facilities</li> <li>Evaluate feasibility of curbside or compartmentalized collection programs for additional communities</li> </ul>	•  •	•	• •						
<u>Waste Reduction:</u> <ul style="list-style-type: none"> <li>Add information about waste reduction techniques to existing District information</li> </ul>			•						
<u>Illegal Dumping:</u> <ul style="list-style-type: none"> <li>Evaluate the feasibility of developing an illegal dumping program</li> </ul>		•							
<u>Waste Tires:</u> <ul style="list-style-type: none"> <li>Develop markets for 100% usage of waste tires from the District</li> </ul>									•
<u>Batteries:</u> <ul style="list-style-type: none"> <li>Evaluate the feasibility for development of battery collection program</li> </ul>		•							
<u>Construction and Demolition Waste:</u> <ul style="list-style-type: none"> <li>Evaluate the feasibility of developing a C &amp; D waste program</li> </ul>				•					

Table 3, Continued.

Goal	Proposed Year of Completion								
	2005	2006	2007	2008	2009	2010	2011	2012	2013
<u>Education and Public Awareness:</u> <ul style="list-style-type: none"> <li>Develop education workshop/program for solid waste issues</li> <li>Develop children's educational program</li> </ul>				•					
<u>Special Projects:</u> <ul style="list-style-type: none"> <li>Evaluate the feasibility for development of white goods collection program</li> <li>Develop information on disposal of rice hulls</li> </ul>		•	•						



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**EARSWMD Waste Tire Agreement**



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**Waste Hauler License Application Form**

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**List of Licensed Waste Haulers**

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## **Waste Hauler Inspection Form**

# **APPENDIX A**

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## **Administrative Procedures**

# **APPENDIX B**

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**By-Laws**

# **APPENDIX C**

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## **Regulations and Ordinances**



# **APPENDIX D**

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**Tables, Charts, Graphs, and Maps**





# **APPENDIX E**

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**Other Information**



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**Marked Tree**

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**Cherry Valley**





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**Forrest City**

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**Anthonyville**



Table 2. Waste services by municipality.

Municipality/County	Population*	Operator and Home Office	Type of Pick Up	Collection Agreement	Revenue Source	Monthly Cost per Household (HH)	Percentage of Households Served by Collection	Frequency of Collection	Disposal Facility
Anthonyville/Crittenden	252	City Service	Curbside	Municipal	Mandatory Fee on Sewer Bill	\$10.00	50	HH /month	Crittenden County LF
Crawfordsville/Crittenden	518	Riverside Environmental (businesses)						Bus. 1/wk	
Clarkedale/Crittenden	236								
Earle/Crittenden	3,059								
Edmondson/Crittenden	517								
Gilmore/Crittenden	294								
Horseshoe Lake/Crittenden	323	Buddy Chambers, D&M Lawncare, and Waste Management (?)	Curbside and collection cart	None	Voluntary Subscription	Unknown	Unknown	Unknown	Unknown
Jennette/Crittenden	125								
Jericho/Crittenden	185	City Service	Curbside	Municipal	Mandatory Fee	\$5.00	100	HH 1/wk	Crittenden County LF
Marion/Crittenden	8,969	Riverside Environmental & ECO Services (businesses)						Bus. 1/wk	
Sunset/Crittenden	351								
Turrell/Crittenden	964	Riverside Environmental (businesses)						Bus. 1/wk	
West Memphis/Crittenden	27,876	Riverside Environmental, Waste Management, ECO Services (businesses/induatry)						Bus. 1/wk to daily	Tunica LF, Mississippi
Cherry Valley/Cross	709	Woodard Sanitation (Cherry Valley)	Curbside	Service Contract	Mandatory Fee on Water Bill	\$12.05	100	HH 1/wk Bus. 2/wk	
Hickory Ridge/Cross	386								
Parkin/Cross	1,612								
Wynne/Cross	8,670	City Service	Curbside	Municipal	Mandatory Fee	\$12.00	100	HH 1/wk Bus. 1 to 5/wk	EMS Transfer Station
Aubrey/Lee	218								
Haynes/Lee	211								
LaGrange/Lee	120								
Marianna/Lee	5,106								
Moro/Lee	238	B & B Disposal (Jonesboro)	Curbside	Exclusive Service Contract	Mandatory Fee	\$9.60	100	HH 1/wk Bus. 1/wk	West Helena LF
Rondo/Lee	234								
Elaine/Phillips	836	Ronnie White Sanitation (West Helena)	Collection Container	Exclusive Service Contract	Mandatory Fee Sales Tax	\$12.00	100	HH 1/wk Bus. 1/wk	West Helena LF
Helena/Phillips	6,113								
Lake View/Phillips	513								
Lexa/Phillips	320	Ronnie White Sanitation (West Helena)	Curbside	Exclusive Service Contract	Mandatory Fee	\$7.50	100	HH 1/wk Bus. 1/wk	West Helena LF

Table 2. (Continued)

Municipality/County	Population*	Operator and Home Office	Type of Pick Up	Collection Agreement	Revenue Source	Monthly Cost per Household (HH)	Percentage of Households Served by Collection	Frequency of Collection	Disposal Facility
Marvell/Phillips	1,349	Waste Corporation (Hazen)	Curbside	Exclusive Service Contract	Mandatory Fee	\$10.00	100	HH 1/wk	West Helena
West Helena/Phillips	8,401								
Fisher/Poinsett	269	J & D Sanitation	Curbside	Exclusive Service Contract	Mandatory Fee on Water Bill	\$9.00	100	HH 1/wk	Jackson County
Harrisburg/Poinsett	2,226	Delta Disposal, Inc. (Jonesboro)	Curbside		Mandatory Fee			HH 1/wk Bus. 1/wk	Crittenden County LF
Lepanto/Poinsett	2,166	Delta Disposal, Inc. (Jonesboro)	Curbside	Exclusive Service Contract	Mandatory Fee	\$10.18	100	HH 1/wk Bus. 1 to 2/wk	Crittenden County LF
Marked Tree/Poinsett	2,844	B & B Waste Disposal (Jonesboro)	Curbside	Exclusive Service Contract	Mandatory Fee	\$8.88	100	HH 1/wk Bus. 1/wk	Crittenden County LF
Trumann/Poinsett	6,996								
Tyronza/Poinsett	932	Delta Disposal (Jonesboro)	Curbside	Exclusive Service Contract	Mandatory Fee	\$11.60	100	HH 1/wk	Crittenden County LF
Waldenburg/Poinsett	81	Southern Sanitation	Curbside	Exclusive Service Contract	Mandatory Fee	\$8.00	100	HH 1/wk Bus. 2/wk	Jackson County
Weiner/Poinsett	772	Southern Sanitation (Weiner)	Curbside		Mandatory Fee			HH 1/wk	Jackson County LF
Caldwell/St. Francis	470								
Colt/St. Francis	372								
Forrest City/St. Francis	14,945	King Disposal, Inc.	Curbside	Exclusive Service Contract	Sale Tax	\$10.05	100	HH 1/wk Bus. 2/wk	West Helena LF
Hughes/St. Francis	1,889								
Madison/St. Francis	998								
Palestine/St. Francis	750								
Wheatley/St. Francis	376	B & B Waste Disposal (Jonesboro)	Curbside	Exclusive Service Contract	Sales Tax	\$10.44	100	HH 1/wk Bus. 1/wk	
Widener/St. Francis	339								

\* = 2004 Population calculated using the 2000 Census Information from the US Census Bureau Website.