

East Central Missouri Solid Waste Management District Region I



2010/2011 Work Program & Plan Update

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East Central
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District

FOREWARD

The East Central Missouri Solid Waste Management District - Region I (District) convened a meeting of the Executive Board and Advisory Committee to review the activities and accomplishments of the District and to develop an implementation plan and work program to guide future activities and investment of the District. The voluntary participation of the Executive Board and Advisory Board is greatly appreciated. Those in attendance at the planning session included:

Lon Little, Kingdom Projects (Chairman)

Jim Mayes, Lincoln County Commission (Vice-Chairman)

Fred Vahle, Farmers Mutual Insurance (Treasurer)

Stephanie Hulsey, Franklin County EMA (Secretary)

Roger Nekula, Bodine Aluminum

Dean Larkin, Missouri Extension and Outreach

Vicki Vohsen, Wilson Waste Systems

Pam Gildehaus, City of Washington

Steve Etcher, BRPC

Jane Cale, BRPC

Chuck Eichmeyer, BRPC

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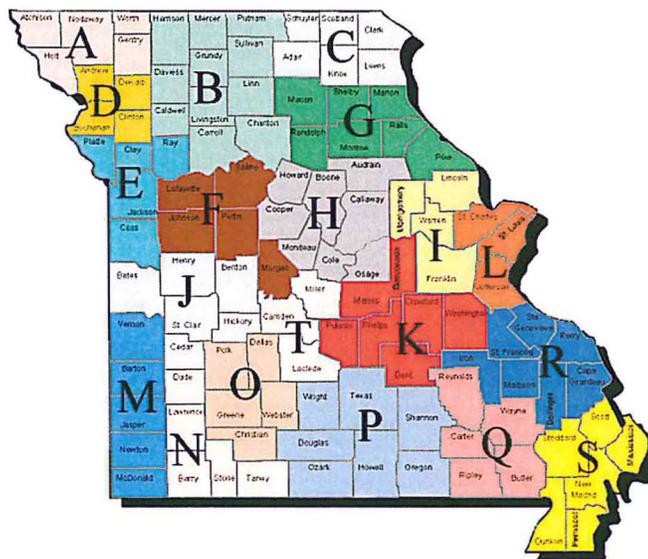
INTRODUCTION OF EAST CENTRAL MISSOURI SOLID WASTE MANAGEMENT DISTRICT – REGION I

History & Origin of Solid Waste Districts

Missouri Solid Waste Management Law was put into place following legislative action in 1990. The law is codified in RSMo 260. The enabling legislation created fees on landfills and tires to fund solid waste management activities, and banned items from the landfill including tires and yard waste.

The goal and purpose of Missouri’s solid waste management law is to reduce Missouri’s dependency on landfills by 40%; to promote the reduction and reuse of natural resources, and to create advisory council and financial assistance programs to promote recovery and reuse. According to the Missouri Department of Natural Resources, “The purpose of the Solid Waste Management Program is to ensure solid waste is managed in such a way that protects both public health and the environment. The Solid Waste Management Program works hard to help all Missourians better manage their solid wastes. Through the cooperative efforts of citizens, businesses, industry and government, Missouri can continue to increase material reuse and recycling from all solid waste sources.”

As a result of Missouri’s Solid Waste Management Law there were 20 Solid Waste Districts created throughout the State of Missouri, as indicated in the map below. The East Central Missouri Solid Waste Management District, designated as Region I, serves Franklin, Lincoln, Montgomery and Warren counties.



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EAST CENTRAL MISSOURI SOLID WASTE MANAGEMENT DISTRICT BOARDS & COMMITTEES

In accordance with Missouri Statutes, the District has instituted boards and committees to govern and advise the District. The District has three standing boards and committees—Executive Board, Advisory Committee, and General Membership Board of Directors. The members of these boards and committees are listed below.

- Executive Board
 - Lon Little, Kingdom Projects (Chairman)
 - Jim Mayes, Lincoln County Commission (Vice-Chairman)
 - Fred Vahle, Farmers Mutual Insurance (Treasurer)
 - Stephanie Hulsey, Franklin County EMA (Secretary)

- Advisory Committee
 - Roger Nekula, Bodine Aluminum
 - Dean Larkin, Missouri Extension and Outreach
 - Vicki Vohsen, Wilson Waste Systems
 - Pam Gildehaus, City of Washington

- Full Membership
 - 25 member board
 - Each county appoints two delegates and an alternate delegate and each city in the region with a population over 500 appoints a delegate and an alternate delegate to serve on the full council

The executive board and the advisory committee meet quarterly and the full membership meets annually.

PROJECTS & PROGRAMS

The following is a list of projects awarded funding through the District for fiscal years 2008, 2009, and 2010.

Grant Recipient	Grant #	Description	Total Project Amount
ECSWMD-Tire Collections	I2008-01	Tire Collections	15,000.00
Beaufort Feed	I2008-02	Baler	30,500.00
City of Union	I2008-03	Chipper	21,080.00
BRPC Administration	I2008-07	Operations	38,800.00
Lincoln County	I2009-01	Minnemeyer Road Glassphalt	33,333.00
Lincoln County	I2009-02	Tire & Battery Collection	6,000.00
Montgomery County	I2009-03	Tire & Battery Collection	6,000.00
Elsberry R-II School District	I2009-04	Glassphalt Parking Lot	33,333.00

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Grant Recipient	Grant #	Description	Total Project Amount
City of St. Clair	I2009-05	Benches & Waste Receptacles	11,788.00
Hawk Point Elementary	I2009-06	Playground Equipment	28,500.00
Kingdom Projects	I2009-07	Recycling Containers	29,562.00
Warren County Extension Council	I2009-08	Electronic Recycling	12,500.00
City of Washington	I2009-09	HHW Collection	34,500.00
Lincoln County	I2009-10	Shingle Asphalt-Meyer Road	33,333.00
BRPC Administration	I2009-11	Operations	38,800.00
City of Warrenton	I2010-01	Recreation Improvements	32,873.00
BRPC Administration	I2010-02	Operations	39,400.00
Recycling Center	I2010-03	Recycling Center	275,500.00

FUNDING STREAMS

The District is funded by two primary sources. The District is allocated an amount of the tipping fee generated with the State. The tipping fee revenue is allocated on a formula basis. The formula allocates a minimum amount to each District and distributes the balance of the funds based on population and the amount of waste disposed of within the District at landfills and transfer stations. The allocation for the current year is estimated to be near \$100,000.

The second funding stream includes local revenue provided by member communities, in the form of membership dues. The membership dues are used to leverage additional revenues for solid waste management activities. Due to current financial constraints of local governments, dues have not been assessed since 2007.

ASSESSMENT OF REGION'S SOLID WASTE MANAGEMENT CAPACITY

Currently within the District there is only one active landfill, located in the City of Washington, known as the Struckhoff Landfill. There is one permitted transfer station operated by Christian Disposal in Lincoln County.

The District has several public facilities and private enterprises that operate recycling centers and programs for the area residents and businesses. A list of the known recycling centers is shown below.

- City of Washington Recycling Center
- Union Recycling
- GLC Metals-Pacific
- Earthwise Industries-Troy
- Kingdom Projects, Inc
- Central Metals-Wellsville
- East Central Missouri Recycling Center
- Central Paper Stock

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According to a 2007 report published by the Missouri Department of Natural Resources, the per capita waste generated in Missouri is 1.18 tons per year. As a result of solid waste management practices and projects, the report indicates that 46% of this waste was diverted from landfills to alternate uses.

ROLE OF THE DISTRICT

The District has identified three primary roles on which to focus its effort:

- Reducing landfill dependency through education as well as recycling and recovery programs
- Determining and responding to consumer demand
- Helping businesses reduce and reuse waste

The District allocates funding to eligible applicants and projects to address these focus areas. The District operates a grant program designed to fund activities related to the core mission of the District. The funding for the grant program is provided by the Missouri Department of Natural Resources through fees generated by tipping fees at landfills and transfer stations.

NEEDS OF THE REGION

In the planning session held on August 10, 2010 with the Executive Board and the Advisory Committee, the following needs were identified within the region. The District intends to work on addressing these needs through the activities of the District staff and through available grant programs. The following is a summary of the needs identified:

1. Household hazardous waste collection sites
2. Electronics recycling programs and drop-off locations
3. Scrap tire collections
4. Pallet reutilization
5. Composting program/facility
6. Demonstration projects using recovered materials
7. Education of the public in regard to available recycling opportunities, programs, and drop-off locations
8. Improve convenience of recycling services and programs
9. Provide technical assistance to businesses for scrap utilization
10. Explore opportunities for cooperative marketing and transportation of recovered materials
11. Recruitment of remanufacturers
12. Waste to energy

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INVESTMENT PRIORITIES: ADDRESSING THE NEEDS OF THE REGION

The financial resources of the District are limited and dwindling; therefore, it is imperative that investments be focused and provide the greatest return. The recommendations for future investments as well as some of the ways in which the District has begun or plans to address the identified needs are listed below:

1. Household hazardous waste collection sites
There is a definite need to deal with the lack of a hazardous waste collection facility in the region. Due to the high cost of establishing such a site and the liability associated with it, the District will start with small steps to address HHW collection such as by collecting usable paint. The paint can be offered to schools, churches, individuals, etc. in an effort to recycle. District staff is to investigate establishing a paint collection process at the recycling center.
2. Electronics recycling programs and drop off locations
In the past, the District has funded grants for collections of electronics. With the establishment of the East Central Missouri Recycling Center, this need is being addressed for the District. Residents can drop off electronics any time during the recycling center's hours of operation. This is a free service with the exception of television sets and computer monitors. A small fee is charged for these items to take care of proper disposal costs. District staff should continue to promote this service.
3. Scrap tire collections
Residents of the District, as well as local government officials in the region, continue to face the problem of scrap tires, which are often illegally dumped. The District is working with the Missouri Department of Natural Resources Scrap Tire Unit to address this issue. Waste tire collections are scheduled for Franklin and Warren counties in the fall of 2010 and for Lincoln and Montgomery counties in the fall of 2011. The events will be well advertised in an effort to clean up as many tires as possible.
4. Pallet reutilization
Since the establishment of the recycling center, the District has made strides in forging relationships with businesses in the region to recycle materials such as cardboard. These relationships are mutually beneficial. The District sees a sizeable amount of material diverted from the landfill. The recycling center brokers the collected material to help with costs of operation. The businesses do something positive for the environment and have lower waste disposal costs. These relationships will allow the District to be more aware of

businesses which use pallets and look for ways for them to be reutilized, perhaps by taking what would be waste for one company and providing it for a different company's use.

5. Composting program/facility

A facility would require an investment to create and man, as well as permits to operate. At this time the District is not in a position to take on a full scale District-wide operation of this kind. There are several communities within the region which accept yard waste and use it for either compost or mulch. The District can concentrate on making sure residents are aware of these services. Partnering with county extension councils and businesses in the "green industry" such as garden centers and nurseries to provide "back yard" composting information and/or classes may be a possibility. The District can send public service announcements to local media to coincide with International Composting Awareness Week which is celebrated annually during the first week of May. Educational materials could be placed at the recycling center. Meanwhile, District staff should explore the cost and timetable for adding a compost element at the recycling center.

6. Demonstration projects using recovered materials

The District has awarded grants for projects which demonstrate the use of recovered materials. Examples include roads and parking lots paved with recycled glass or shingles, and projects which made use of recycled plastic for playground equipment, benches and containers. The District will continue to review and consider proposals which identify a material that can be reused and consider them for funding. The District staff should continue to explore ways to promote the use of recovered materials.

7. Education of the public in regard to available recycling opportunities

A major role of the District in addressing needs of the region is through education. This can be accomplished in a variety of ways including by requiring funded projects to have an educational component, establishing classroom activities or programs, offering tours of collection and processing facilities and showing ways in which recovered materials can be reused. A key component in education is to "get the message out". The District would like to make use of local media outlets, including local cable access channels. Opportunities to work with the A/V departments of regional educational institutions will be explored. While newsletters and newspaper releases can be used, the District recognizes that the most effective way to

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communicate its message today will be through technology, including Internet, Facebook, Twitter, etc.

8. Improve convenience of recycling services and programs

The District established the recycling center in the geographical center of Region I. In an effort to make this service more convenient for residents in the outlying communities of the region, the District is exploring the possibility of placing recycling trailers in those cities and partnering with local officials who would transport the filled trailers to the recycling center. Letters have been sent to the cities to determine interest. Thus far, three communities would like to participate. Once the level of interest is assessed, the District will move forward with this plan.

9. Provide technical assistance to businesses for scrap utilization

The District will explore the possibility of creating a business resource directory of scrap materials. Businesses can be surveyed to determine the scrap materials they produce. This information could be shared with other businesses which might be able to use the scrap material, saving them money and keeping usable material from landfills. District staff should explore funding to create this program.

10. Explore opportunities for cooperative marketing and transportation of recovered material

The District will explore cooperative marketing and collaborative ventures with stakeholders. Staff will keep aware of markets through research and also through collaboration with other entities which recover materials.

11. Recruitment of manufacturers

The District will continue to develop relationships with area economic development agencies and the business community. The District will also keep informed about initiatives such as those involving "green jobs". Promoting the recycling center may serve to help in the recruitment of re-manufacturers, particularly if it provides access to usable recovered material.

12. Waste to energy

Companies are developing new ways to generate energy by recycling waste. As technology and methods advance, this may revolutionize the handling of municipal solid waste. First and foremost, the District needs to be an entity which keeps informed and embraces opportunities to learn about innovative ideas and processes. This will allow for knowledgeable and meaningful

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decision making as the District implements the region's solid waste management program.

EVALUATION OF THE DISTRICT'S ACCOMPLISHMENTS

In today's climate of scarce resources and public accountability, it is imperative to establish a process for evaluating the success and impact of our investments and activities. To gauge the District's accomplishments the leadership should implement the following measures:

- Consult with a third party or MoDNR to assess the District's waste stream composition and diversion rates
- Create benchmarks for measurable outcomes to monitor project impacts.
- Identify methodologies for soliciting feedback from constituents, including residents and businesses to measure participation in programs and identify new strategies for waste reduction and reuse.

SOLID WASTE MANAGEMENT DISTRICT ANNUAL REPORT

1. **District Name:** East Central Missouri Solid Waste Management District – Region I

2. **Fiscal Year Period:** July 1, 2010 to June 30, 2011

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Goals and Accomplishments

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3(a). **What waste goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?**

With the new members of the Advisory Committee in place, the Region I Executive Board met with them on August 10, 2010 and had a planning session. Planner Steve Etcher gave a brief overview of the history and origins of solid waste districts for the Advisory Committee members. He discussed the general goals and purpose of the districts, the areas served by them, and funding streams. He provided a list of some of Region I's projects and programs during the last several years. The Executive Board and Advisory Committee discussed the role of the District and identified needs of the region and investment priorities. BRPC staff prepared a summary of their discussion. The East Central Missouri Solid Waste Management District – Region I 2010/2011 Work Program & Plan Update is enclosed.

Progress was made with several of the identified needs including the following:

- Electronics recycling – The District had established the East Central Missouri Recycling Center in April 2010. Residents are allowed to drop off electronics any time during hours of operation. The service is free with the exception of a \$15.00 fee for television sets and computer monitors. Residents have been taking advantage of this service and seem very happy about having a place to take these items and know they are disposed of properly.
- Scrap tire collections – The District worked in conjunction with the Missouri Department of Natural Resources Scrap Tire Unit to set up waste tire collections in two of the four counties it serves. Collections were held in Franklin and Warren counties in the fall of 2010. Thousands of tires were collected.
- Pallet reutilization – The Recycling Center has added wooden pallets to the list of items accepted for recycling.
- Education of the public in regard to available recycling opportunities – Having a recycling center located in the District offers an excellent opportunity to educate the public. Both the *Warren County Record* and the *Washington Missourian* newspapers published articles about the Recycling Center around Earth Day in April 2011 which was the one year anniversary of its opening. The local radio station also shared information

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during its broadcast. In addition, the local Chamber of Commerce newsletter is used to inform area residents of the recycling opportunity.

Boonslick Regional Planning Commission updated its website this year and now is able to share information about the recycling center as well as the Solid Waste District. Links to informative websites are listed, including helpful information for teachers and students. The District grant application is available, as well as other funding opportunities such as the scrap tire grants. The website also provides an opportunity for information to be shared about any other recycling opportunities available in the District.

In its grant application, the District has a category for Education. Grants are available for providing education about reduction, reuse and recycling activities. The maximum funding request is \$10,000.00 and no match is required. Grant notices are sent to each school district in Region I. The District has made attempts to make education a priority.

3(b). What waste goals does the district have for the upcoming fiscal period and what actions does the district plan to take to achieve these goals?

The Region I District plans to continue working to address the needs identified in its 2010/2011 Work Program & Plan Update. While progress has been made, several of the identified needs continue to be an issue. These include hazardous household waste, recruitment of re-manufacturers, and waste-to-energy. The District will send out grant availability notices in January 2012. There are categories for both banned items collection and market development & innovation. Hopefully, applications will be received which propose projects to address these topics. The District will work with the Executive Board & Advisory Committee and have regular meetings and conversations in an effort to keep abreast of existing and new needs within the region.

4(a). What recycling goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?

Upon establishing the East Central Missouri Recycling Center in April 2010, the District worked with Boonslick Regional Planning Commission to operate the facility. Efforts were made to inform area residents about the facility and the types of items accepted for recycling. The manager of the Recycling Center contacted several local businesses which generate large amounts of cardboard and set up a route to collect the material. Approximately 100 tons of material was diverted from the solid waste stream for recycling during the first year of operation. Board members feel that the Recycling Center makes a big impact on the District's recycling efforts and desire to see operations continue.

The District wanted to make recycling more accessible for residents in outlying areas and planned to place trailers in those communities expressing an interest. Letters were sent to area cities to determine their desire to participate. Board

members and BRPC staff approached a local not-for-profit entity which had some recycling trailers not being used. A bid was also placed on a used trailer. Though these initial efforts were not successful, the District plans to pursue other avenues in an attempt to make recycling more accessible.

4(b). What recycling goals does the district have for the upcoming fiscal year period and what actions does the district plan to take to achieve these goals?

The District plans to continue operation of the Recycling Center. A grant was written and has been approved by DNR for the upcoming fiscal year. The District will continue to try to address the issue of making recycling more accessible and will encourage those communities desiring trailers to submit grants for consideration. The District will also explore the idea of having a trailer available for entities holding events to use. The material collected could then be brought to the Recycling Center.

5(a). What resource recovery goals did the district have for the fiscal year period and what actions did the district take to achieve these goals?

One of the needs identified in the District continues to be scrap tires. The District worked with the Missouri Department of Natural Resources Scrap Tire Unit to schedule waste tire collections for two of the four counties it serves. Tire collections were held in both Warren and Franklin counties in October 2010. Both collections were extremely successful, resulting in the collection of thousands of tires.

5(b). What resource recovery goals does the district have for the upcoming fiscal year period and what actions does the district plan to take to achieve these goals?

The District has scheduled waste tire collections for Montgomery County in September 2011 and Lincoln County in November 2011.

6. Summarize the types of projects and results during fiscal year.

Project# I2010-01: City of Warrenton Playground Improvement Project

Project Date: 10/1/09 – 09/31/10

The City of Warrenton improved the safety around playground equipment by replacing pea gravel with recycled shredded tires. The project was successful, diverting approximately 70 tons of material. Comments were made to city officials expressing appreciation for the project.

Project# I2010-03: Region I Recycling Center

Project Date: 04/01/10 – 06/30/11

The Region I District made a decision to establish the East Central Missouri Recycling Center. It serves all four counties in the District and is located in the center geographically. The project has gotten off to a very

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successful start. Plans are to continue operation. A grant for the next fiscal year has been submitted and approved by DNR to make this possible.

7. Summarize projects not resulting in tonnage diversion.

All projects resulted in diversion.

8. Identify separate statistics for items banned from landfills.

Project #	Name of Project	Cost of Project	Number of Tons Diverted	Average Cost Per Tons Diverted
I2010-01	City of Warrenton Playground Improvement (Scrap tires)	\$20,861.10	70	\$298.02
I2010-03	Region I Recycling Center	*See below	20.24	*See below

Project # I2010-03 Region I Recycling Center

*The project resulted in the diversion of items banned from the landfill. The specific items and tons diverted since the facility opened for operation are listed below. The cost of the project was to get the recycling center in place and ready to operate. Plans are for the project to be ongoing and an average cost per tons diverted would not be accurate at this time.

Lead acid batteries:	0.5 tons
Waste oil:	9.95 tons
White goods:	9.79 tons
Total:	20.24 tons

9. Identify separate statistics for items not banned from landfills.

Project #	Name of Project	Cost of Project	Number of Tons Diverted	Average Cost Per Tons Diverted
I2010-03	Region I Recycling Center	*See below	186.45	*See below

Project # I2010-03 Region I Recycling Center

*The project resulted in approximately 186.45 tons of material not banned from the landfill being diverted since the facility opened for operation. The cost of the project was to get the recycling center in place and ready to operate. Plans are for the project to be ongoing and an average cost per tons diverted would not be accurate at this time.

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10. Describe your district's grant proposal evaluation process.

The District Executive Board is responsible for reviewing and rating application requests for funding. The Advisory Committee, though not voting, provides input. The District instituted a quarterly grant call procedure to give those interested in proposing a project for consideration more than just one chance during the fiscal year to submit an application. Priorities have been to fund the following types of projects:

Education: Projects that provide education about reduction, reuse and recycling activities.

Recycling/Waste Reduction: Projects that provide basic recycling services.

Demonstration Projects: Projects that demonstrate the reuse of recovered and recycled materials.

Market Development & Innovation: Projects that explore creative methods for reducing waste, recovering materials or creating new re-uses.

Banned Items Collection: Projects that collect items banned from the landfill which can be reused.

Grants are scored and require a minimum rating of 65 to be considered for funding.

Information regarding the members of the Region I Executive Board and the District Advisory Committee along with contact information is enclosed.

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**EAST CENTRAL MISSOURI
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EXECUTIVE BOARD**

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County	Name	Address	Phone / Fax	E-mail
Franklin	Stephanie Hulsey Secretary	Emergency Management 401 E. Springfield Ave. Union, MO 63084	P: 636.583.1679 F: 636.583.4146	shulsey@franklinmo.net
Lincoln	Jim Mayes Vice Chairman	Lincoln County 201 Main Street Troy, MO 63379	P: 636.528.6300 F: 636.528.5528	chall@lcclerk.com
Montgomery	Lon Little Chairman	Kingdom Projects 2611 N. Business Hwy 54 Fulton, MO 65251	P: 573.642.7333 ext. 203 F: 573.642.6699	little@kingdomprojects.org
Warren	Fred Vahle Treasurer	711 E. Booneslick Warrenton, MO 63383	P: 636.456.3629 (Work)	fmwarco@centurytel.net

**EAST CENTRAL MISSOURI
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ADVISORY COMMITTEE**

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County	Name	Address	Phone	E-mail
Franklin	Pam Gildehaus	City of Washington 405 Jefferson St. Washington, MO 63090	P: 636.390.1032	pgildehaus@ci.washington.mo.us
Lincoln	Roger Nekula	Bodine Aluminum 100 Cherry Blossom Way Troy, MO 63379	P: 636.462.1049	roger.nekula@tema.toyota.com
Montgomery	Dean Larkin	University of Missouri Extension 301 Salisbury Street Montgomery City, MO 63361	P: 573.564.3733	LarkinL@missouri.edu
Warren	Vickie Vohsen	Wilson Waste Systems 1730 Daniel Boone Industrial Park Warrenton, MO 63383	P: 636.456.1836	vickie_vohsen@wilsonwastesystems.com