Ozark Rivers Solid Waste Management District: Recycling Rate Study

Determining the Recycling Rate for the Region and Establishing a Baseline Rate

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Introduction to Recycling Rate Study

Meramec Regional Planning Commission, a voluntary council of local governments serving the Meramec Region of Missouri, is working with the Ozark Rivers Solid Waste Management District to update and implement a regional solid waste management plan. The ultimate goal of this plan is to reduce by 40 percent the amount of waste landfilled.

As recycling and waste reduction programs have evolved in the region, it has become increasingly important to the district board and advisory committees to determine the recycling rate for the region. Establishing a baseline recycling rate would allow the district to periodically check the level of resource recovery and determine both the success of local recycling programs and the district's level of achieving the statewide goals of a 40 percent reduction.

At the 2010 advisory committee meeting, the group stated that the district has been promoting and providing grants for recycling to entities in the district for many years. Measures of success have been based on the state-wide figures on diversion from landfills, but the district does not have data on the recycling rate for the region. The advisory committee suggested that staff conduct a study to determine the local recycling rate. This would help any entity involved in recycling to establish goals and determine the success of their program. In order to provide a complete picture of recycling programs- both successes and areas where recycling programs can be improved - the district needs to know the region's recycling rate.

Staff applied for a USDA grant in 2010 to conduct the study but was not selected for funding. In 2011, staff applied for the USDA grant again under the umbrella of a larger project of the Missouri Department of Natural Resources (MDNR) and Lincoln University, but was still not selected for funding. At the 2012 district advisory committee meeting, the committee recommended that staff apply to the district grant program to complete the recycling rate study.

The project proposal was funded by the Ozarks Rivers Solid Waste Management District in its 2013 funding cycle and included conducting a survey to obtain the municipal solid waste recycling and disposal data necessary for calculating a standard recycling rate for the seven-county region. The project included using MDNR disposal data for waste generation figures and designing a recycling measurement system specific to the Ozark Rivers region. It was planned that the data collection tool used in the study would be based on the standard methodology established by the U.S. Environmental Protection Agency (EPA).

It was intended that once a recycling rate for the district had been calculated, entities in the region would know where they stand in relation to the state's goal of a 40 percent recycling rate. It was planned that the data collection tool be shared with entities in the district, allowing them to use this data collection tool to update their recycling rate on a regular basis, i.e. every five years, if they wish. If they have already met the state's 40 percent goal, this tool will give them an opportunity to reassess and increase their individual goals. Having a process in place for calculating recycling rates and a baseline number for comparison will be valuable tools for the district to use to determine success, design programs and promote recycling activities.

Recycling Rate Study Project Description

The project goal was to determine the current recycling rate for the region and establish a baseline against which future data can be measured. This information will provide local governments and recycling programs with better information on which to base decisions about recycling and disposal programs.

The four primary objectives of the recycling rate study included the following:

- 1) To develop a standard data collection tool for the district that can be shared and used to update the recycling rate in the future both for the district and for communities in the district who want to calculate their recycling rate on a regular basis to determine success or the need for changes.
- 2) To collect data to establish a baseline recycling rate for the district using a standard tool that will be shared with other entities in the district. The knowledge on the recycling rate will be essential for solid waste planning and to create future opportunities for recycling efforts. It also is useful information for applying for state and federal grants and for the district to use when evaluating local grant applications.
- 3) To organize a workshop to share the baseline recycling rate of the district and the data collection tool with district communities so they can update their recycling rate and compare progress. Staff can also work one-on-one with the community in sharing the data collection tool and results of the study.
- 4) To produce useful information for planning and decision making.

Recycling Rate Study Survey Process, Response and Results

The project included several primary activities as described below:

Data Collection Tool Development: The data collection tool used to measure the amount of municipal solid waste (MSW) being recycled in the district was based on the standard methodology for measuring

recycling rate developed by the EPA (http://www.epa.gov/epawaste/conserve/tools/recmeas/index.htm). EPA has developed templates of three different survey forms to collect data on the amount of MSW recyclables and other types of recyclables. Each survey targets a different aspect of recycling including collectors, processors and end users (Table 1). As this project's intent was to collect data on municipal solid waste (MSW), the Survey Form 1: Collectors of Recyclables was an important resource used in drafting the survey tools for the Ozarks Rivers recycling rate study. This sample survey is tool is included as Exhibit 1.

Table 1: EPA Survey Forms for Recyclables

Survey Form Title	Who should complete the form	Purpose
FORM 1: COLLECTORS OF RECYCLABLES	 Private recycling haulers Government agencies with collection crews or contracts Large generators that self-haul directly to processor or end user 	To collect data on the amount of MSW recyclables and other recyclables collected from residential and commercial sources in your state or locality during the current measurement year.
FORM 2: PROCESSORS OF RECYCLABLES	 Materials recovery facilities (MRFs) Buy- back centers Drop off centers Scrap metal processors Paper processors Glass beneficiation plants Plastic processors Tire processors Yard trimmings processors Transfer stations that recover recyclables from waste on site 	To collect data on the amount of MSW recyclables and other recyclables collected from residential and commercial sources in your state or locality during the current measurement year by MRFs, buy back centers, and other processors.
FORM 3: END USERS OF RECYCLABLES	 Public and private composting facilities Recycling plants Disposal facilities that recover recyclables from waste on site 	To collect data on the amount of MSW recyclables and other recyclables from residential and commercial sources in your state or locality accepted during the current measurement year.

Source: US EPA website: www.epa.gov

The process for the survey development included several steps, including research on existing tools and survey strategies. The survey tool development included the following tasks:

- 1) Staff reviewed and developed a thorough understanding of EPA forms and questions on their survey templates.
- 2) Staff researched rate studies conducted in other areas/regions to determine the process used, obtain examples of survey forms including content, the data collection methods used, and project timeline.

- 3) Based on research and review of resources for rate studies combined with MRPC staff knowledge of the solid waste and recycling system in the region, two draft surveys were developed for two distinct segments: 1) Solid waste collection and disposal companies; and 2) Recycling facilities, organizations and businesses.
- 4) As part of the survey development process, specific types of materials were identified for tracking. These included those materials typically recycled as part of household waste such as #1 and #2 plastics, glass, aluminum cans, steel/tin cans, office and mixed paper, newsprint, magazines, and cardboard.
- 5) During the survey planning process, it was determined that this study provided an opportunity to attempt to collect information on materials recycled in the region in addition to the typical household materials. Materials including household hazardous waste, household appliances, electronic waste, used motor oil, other metals, lead-acid batteries, and tires were identified as important for tracking. *The list of materials to be included in the study is included in Exhibit 2.*
- 6) The draft surveys and list of materials to be tracked were shared with the Ozarks Rivers Solid Waste Management District's full council, the District's Advisory Committee, and community recycling representatives selected to provide input into the survey design and process at a recycling rate study meeting held on June 5, 2014.
- 7) Following this meeting, the draft surveys and materials lists were finalized. Exhibit 3 includes the final survey used for solid waste collection and disposal companies in the District and Exhibit 4 includes the final survey used for recycling facilities, organizations and businesses.
- 8) Cover letters were also developed for these two groups that explained the study, the process to be used and requested participation of the cities, companies, facilities, organizations and businesses. *These cover letters are included in Exhibit 5 and Exhibit 6*.
- 9) Using various sources, information was obtained on solid waste collection and disposal companies, recycling facilities and organizations and businesses offering or involved in recycling the materials to be tracked within the Ozarks Rivers Solid Waste Management District. A comprehensive mailing list was developed from this research. It is important to note that district members were asked to assist in identifying the businesses and organizations in their communities that were involved in recycling.
- 10) Letters with surveys were mailed throughout the month of January 2015 with a request for a response by Feb. 9, 2015. A total of 135 letters were mailed with an initial response rate of less than seven percent. Over 11 percent of the letters mailed were returned as not deliverable. This was a fairly high percentage and unanticipated at the time of the first mailing.
- 11) Additional research on company addresses was completed for those surveys returned and six of the 135 were businesses that had closed and were no longer in business.
- 12) The surveys and cover letters for both groups were slightly revised and re-mailed. A total of 113 letters/surveys were mailed in March 2015 with a request for response by April 15, 2015. A copy of the revised letters and surveys are included in Exhibits 7 10.
- 13) This second mailing resulted in a less than five percent response rate with another nine percent returned as not deliverable. Those returned as not deliverable were to businesses that were determined to no longer be operating.

14) During April and May 2015, direct contact by telephone was made to over 100 cities, agencies, businesses and organizations in an attempt to obtain participation in the recycling rate study. It is important to note that phone calls were also made to all companies regardless if the initial mailing had been returned as not deliverable if a telephone number was available.

The survey response rate achieved for the total businesses surveyed was over 91 percent. As shown in Table 2, this response rate was due primarily to the phone contacts — over 88 percent of the response rate was achieved by direct phone calls made to businesses. Almost 15 percent of the businesses surveyed did not respond to the phone/email/mailings contacts made. Of the total businesses surveyed, staff was not able to contact eight percent. The cities with no recycling offered represented over 12 percent of the businesses surveyed. Over 66 percent of the cities located in the Ozark Rivers Solid Waste Management District currently do not offer recycling opportunities to their residents.

Table 2: Survey Response

	# Responding	Response Rate
Total Businesses Surveyed	135	
Contacts Made	124	91.8%
Responses to Mailed Survey	16	11.8%
Response to Phone Contacts	108	88.2%
Declined Participation	5	3.7%
No Response (Contact Made by Phone or Email But Survey Response Not Returned)	20	14.8%
Not Able to Contact (Mail Returned and Phone Number not Available or No Longer in Service)	11	8.2%
No Longer Recycle	2	1.5%
No Materials Recycled	11	8.2%
Cities With No Recycling Offered	20	12.6%
Closed/Closing Business	3	2.2%

Source: MRPC Recycling Study Worksheet

Table 3 includes information on the materials accepted by the businesses/cities located in the Ozarks Rivers Solid Waste Management District. A total of 62 of the 135 businesses surveyed do accept recyclables. There are more opportunities for recycling of certain materials, including cardboard, lead acid batteries, newsprint, tires, used motor oil and aluminum in the Ozark Rivers Solid Waste Management District. There are limited opportunities in the district for recycling materials including electronics, household hazardous waste, glass, steel cans, and plastics. It is assumed that regulations regarding disposal of certain materials including motor oil, lead acid batteries and tires has influenced the opportunities for recycling of

these materials. The other factor that results in more recycling opportunities in the district is the market for recycled materials, including aluminum and cardboard.

Table 3: Recycling Opportunities in ORSWMD

Materials Recycled	Number	% of Total Recycling	% of Total Surveyed
Some Form of Recycling Offered	62	100.0%	45.9%
Aluminum	17	27.4%	12.6%
Cardboard	22	35.5%	16.3%
Electronics	4	6.5%	3.0%
Glass	5	8.1%	3.7%
Household Hazardous Waste	3	4.8%	2.2%
Lead Acid Batteries	24	38.7%	17.8%
Magazines	5	8.1%	3.7%
Metals – Ferrous and Non-Ferrous	10	16.1%	7.4%
Mixed Household	1	1.6%	0.7%
Office Paper/Mixed Paper	8	12.9%	5.9%
Newsprint	14	22.6%	10.4%
#1 and #2 Plastics	8	12.9%	5.9%
Plastic Bags	6	9.7%	4.4%
Steel Cans	9	14.5%	6.7%
Tires	20	32.3%	14.8%
Used Motor Oil	25	40.3%	18.5%

Source: MRPC Recycling Study Worksheet

Recycling Rate Study Project Results

The recycling rate of the Ozark Rivers Solid Waste Management District was determined based on a combination of federal, state and local data. In order to calculate the recycling rate, two sets of data were used: the total amount of MSW materials generated and the amount of MSW materials recycled. The

survey results were used to compare and provide a local perspective to a 2008 waste characterization study for the state of Missouri and a 2013 U.S. EPA materials management study. The recycling rate included determining major waste sectors, waste generation in the district and current recycling rates.

Major Waste Sectors/Waste Composition: A waste characterization study was completed by the Midwest Assistance Program (MAP) on behalf of MDNR in 2008. According to this study, Municipal Solid Waste (MSW) accounts for 58.3 percent of the total solid waste stream in Missouri. This closely mirrors EPA waste composition national numbers. The composition of the waste in Missouri is shown in Table 4.

Table 4: Major Waste Sectors & Percent of Total Waste Stream - Missouri, 2008.

Major Waste Sectors	% of Total Waste Stream
Municipal Solid Waste (MSW): paper, glass, metal, plastic, organics, inorganic, special waste	58.3
Construction: wood, dry wall, masonry, metal, plastic, cardboard, other	1.6
Demolition: wood, drywall, roofing, masonry, metal, carpet, other	13.2
Industrial: cardboard, paper, food, metal, wood, plastic, textile, rubber, other	10.7
Other: sludge, tree trunk	2.5
Special: bulky, contaminated soil, asbestos, tritium, e-scrap	13.5

Source: 2008 Waste Characterization Study Missouri Department of Natural Resources

The composition of the waste stream is further broken down by materials included in Municipal Solid Waste, including paper, glass, metals, plastics, inorganics, organics and special waste. The 2008 Missouri Waste Composition study identified a statewide average percentage of all waste for each material in the state.

Paper makes up 33.6 percent of the MSW waste stream in Missouri. This includes cardboard, newsprint, magazines, high grade paper, and mixed paper. Glass makes up 5.5 percent of the MSW waste stream including clear, brown, green and other glass. Metals including aluminum cans, other aluminum, nonferrous metals, food cans, ferrous metals, and oil filters are 6 percent of the total MSW. Plastics including PET #1, HDPE #2, plastic film and other plastics contribute 17.3 percent of the total MSW. Organics including food waste, wood waste, textiles, diapers, and other organics make up 31.6 percent of the total MSW. Inorganics represent 4.1 percent of the MSW stream and special wastes including household hazardous waste and electronic waste contribute 1.9 percent of the total MSW.

Chart 1 titled *Materials: Percentage of MSW* illustrates the composition of municipal solid waste in the Ozarks Rivers Solid Waste Management District. The accompanying Chart 2 illustrates the national composition of municipal solid waste.

Chart 1: Composition of MSW in Ozark Rivers SWMD

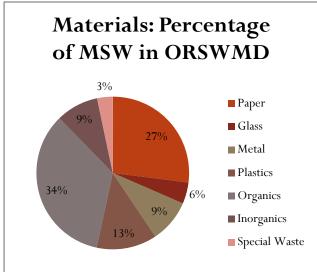
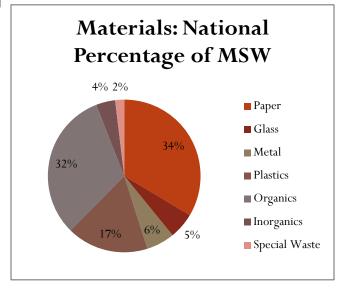


Chart 2: National Composition of MSW in U.S.

Source: Missouri Dept. of Natural Resource 2008 Waste Composition Study



Source: U.S. EPA 2013 Materials Management Study

To further breakdown the composition of waste by material, the 2008 waste characterization study for Missouri further broke down the composition of the waste stream and provided information on percentages of all waste.

This information was used to compute the percentage of municipal solid waste for each different material type. Table 5 titled *Materials Included in Municipal Solid Waste* provides the percentages of all materials present in municipal solid waste.

Two of the materials that contribute a significant percent of the total waste include food at 10.4 percent and other plastics at 4.7 percent. Both of these materials have limited recycling options currently. The other two significant materials in the waste stream — cardboard and mixed paper, are currently accepted at most recycling collections sites.

Table 5: Materials Included in Municipal Solid Waste

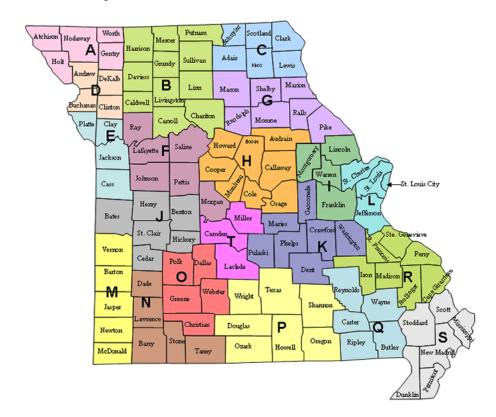
MSW Components	Percentage of All Waste	Percentage of MSW
All MSW	58.3	
Cardboard	4.78	8.20
Newsprint	3.01	5.16
Magazines	2.14	3.67
High Grade Paper	3.73	6.40
Mixed Paper	5.95	10.21
TOTAL PAPER	19.6	33.62
Clear Glass	1.58	2.71
Brown Glass	1.03	1.77
Green Glass	0.37	0.63
Other Glass	0.19	0.33
TOTAL GLASS	3.17	5.44
Aluminum Cans	0.93	1.60
Other Aluminum	0.2	0.34
Non Ferrous	0.12	0.21
Food Cans	1.71	2.93
Ferrous	0.51	0.87
Oil Filters	0.05	0.09
TOTAL METALS	3.52	6.04
PET #1	1.48	2.54
HDPE #2	1.11	1.90
Plastic Film	2.81	4.82
Other Plastic	4.66	7.99
TOTAL PLASTIC	10.06	17.26
Food Waste	10.04	17.22
Wood Waste	0.69	1.18
Textiles	2.76	4.73
Diapers	3.2	5.49
Other Organics	1.73	2.97
TOTAL ORGANICS	18.42	31.60
Fines	0.54	0.93
Other Inorganics	1.87	3.21
TOTAL INORGANICS	2.41	4.13
HHW	0.54	0.93
Electronic Waste	0.57	0.98
TOTAL SPECIAL WASTE	1.11	1.90

Waste Materials Generated: According to the 2008 Missouri DNR Waste Composition Study, an estimated 6,364,557 tons of solid waste was generated by the state's population of 5,595,211. However, MSW only accounts for 58.3 percent of that total, or 3,710,536.7 tons. As most recycling programs target MSW, our data collection focus was on MSW. (Note: Data on other categories of waste was also included in the study (such as motor oil) but with very limited results.)

A waste characterization study was completed by the Midwest Assistance Program (MAP) on behalf of MDNR in 2008. That study included estimated waste generation rates for the state of Missouri. Waste generation rates for the region were extrapolated from that study as exact waste generation rates for the ORSWMD would be very difficult to obtain for the following reasons:

- 1) The landfills and transfer stations keep track of waste haulers, but they do not keep records on where trash comes from;
- 2) Waste haulers haul trash from communities located both inside and outside the ORSWMD boundaries; and
- 3) Not all trash generated within the district's boundaries is disposed of within the district some is trucked out of the region for disposal.

This project used the waste generation rate established by the Missouri Department of Natural Resources (MDNR). By dividing the 3,710,536.7 MSW tonnage figure with the total population of the state (5,595,211), the statewide generation rate for MSW would be .663 tons of trash per person per year – or 3.63 lbs. per person per day. The total population of the district (including all of Sullivan and Richland) is $193,372 \times .663 = 128,205.63$ tons of MSW generated in the ORSWMD per year. The Ozark Rivers Solid Waste Management District is shown below as Region K – highlighted in the darker blue color on the statewide solid waste management district map.



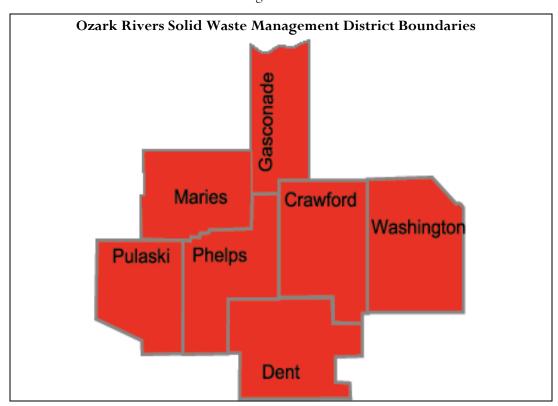
Waste generation in the district is further broken down by major waste sector with paper contributing the most to the waste stream — over 33 percent of the total. Organic waste — which includes food waste — represents makes up almost 32 percent of the total waste. Special waste, inorganics, glass, and metals contribute the least to the waste stream. Table 6 breaks down the total annual tonnage generated annually in the District.

Table 6: Municipal Solid Waste Generation in the Ozarks Rivers Solid Waste Management District

MUNICIPAL SOLID WASTE GENERATION IN THE REGION							
MSW Components	Percentage of All Waste	Percentage of MSW	Total Annual Tonnage Generated				
All MSW	58.3		128,206				
Paper	19.6	33.6	43,077				
Glass	3.2	5.5	7,051				
Metal	3.5	6	7,692				
Plastics	10.1	17.3	22,179				
Organics	18.4	31.6	40,513				
Inorganics	2.4	4.1	5,256				
Special Waste	1.1	1.9	2,436				

Source: 2008 Missouri DNR Waste Composition Study

The total tonnage for the Ozarks Rivers Solid Waste Management District (District boundaries shown below) of the primary components of the waste stream is further broken down by the counties and cities located within the Ozark Rivers Solid Waste Management District in Table 7.



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A per person generation rate of .663 tons per year was used along with the most recent population estimate for the local government. [Due to rounding, total MSW tonnage on Table 7 varies slightly from Table 6.]

Table 7: Municipal Solid Waste Generation in ORSWMD by Material

County/City	County Pop. 2014 (Est.)	Place Pop. 2014 (Est.)	Annual Tons MSW	Paper 33.6%	Glass 5.5%	Metal 6%	Plastics 17.3%	Organics 31.6%	In-Or- ganics 4.1%	Special Waste 1.9%
Crawford County	24,650	16,000	10,608.0	3,564.2	583.4	636.4	1,835.1	3,352.1	434.9	201.5
Bourbon		1,627	1,078.7	362.4	59.3	64.7	186.6	340.8	44.2	20.4
Cuba		3,383	2,242.9	753.6	123.3	134.5	388.0	708.7	91.9	42.6
Leasburg		336	222.7	74.8	12.2	13.3	38.5	70.3	9.1	4.2
Steelville		1,709	1,133.0	380.6	62.3	67.9	196.0	358.0	46.4	21.5
Sullivan (all)*		7,054	4,676.8	1,571.1	257.2	280.6	809.8	1,477.8	191.7	88.8
West Sullivan		119	78.8	26.4	4.3	4.7	13.6	24.9	3.2	1.4
Dent County	15,655	10,650	7,060.9	2,372.4	388.3	423.6	1,221.5	2,231.2	289.4	134.1
Salem		5,005	3,318.3	1,114.9	182.5	199.0	574.0	1,048.5	136.0	63.0
Gasconade County	14,866	8,580	5,688.5	1,911.3	312.8	341.3	984.1	1,797.5	233.2	108.0
Bland		523	346.7	116.4	19.0	20.8	59.9	109.5	14.2	6.5
Gasconade		215	142.5	47.8	7.8	8.5	24.6	45.0	5.8	2.7
Hermann		2,378	1,576.6	529.7	86.7	94.5	272.7	498.2	64.6	29.9
Morrison		137	90.8	30.5	4.9	5.4	15.7	28.6	3.7	1.7
Owensville		2,626	1,741.0	584.9	95.7	104.4	301.1	550.1	71.3	33.0
Rosebud		407	269.8	90.6	14.8	16.1	46.6	85.2	11.0	5.1
Maries County	9,013	7,083	4,696.0	1,577.8	258.2	281.7	812.4	1,483.9	192.5	89.2
Belle (all)*		1,535	1,017.7	341.9	55.9	61.0	176.0	321.5	41.7	19.3
Vienna		599	397.1	133.4	21.8	23.8	68.6	125.4	16.2	7.5
Phelps County	44,847	19,499	12,927.8	4,343.7	711.0	775.6	2,236.5	4,085.1	530.0	245.6
Doolittle		610	404.4	135.8	22.2	24.2	69.9	127.7	16.5	7.6
Edgar Springs		204	135.2	45.4	7.4	8.1	23.3	42.7	5.5	2.5
Newburg		455	301.6	101.3	16.5	18.0	52.1	95.3	12.3	5.7
Rolla		19,926	13,210.9	4,438.8	726.5	792.6	2,285.4	4,174.6	541.6	251.0
St. James		4,153	2,753.4	925.1	151.4	165.2	476.3	870.0	112.8	52.3
Pulaski County	53,436	38,140	25,286.8	8,496.3	1,390.7	1,517.2	4,374.6	7,990.6	1,036.7	480.4
Crocker		1,081	716.7	240.8	39.4	43.0	123.9	226.4	29.3	13.6
Dixon		1,514	1,003.7	337.2	55.2	60.2	173.6	317.1	41.1	19.0
Richland		1,839	1,219.2	409.6	67.0	73.1	210.9	385.2	49.9	23.1
St. Robert		5,747	3,810.2	1,280.2	209.5	228.6	659.1	1,204.0	156.2	72.3
Waynesville		5,365	3,556.9	1,195.1	195.6	213.4	615.3	1,123.9	145.8	67.5
Washington County	25,077	21,477	14,239.2	4,784.3	783.1	854.3	2463.3	4,499.5	583.8	270.5
Caledonia		131	86.8	29.1	4.7	5.2	15.0	27.4	3.5	1.6
Irondale		449	297.6	99.9	16.3	17.8	51.4	94.0	12.2	5.6
Mineral Point		351	232.7	78.1	12.7	13.9	40.2	73.5	9.5	4.4
Potosi		2,669	1,769.5	594.5	97.3	106.1	306.1	559.1	72.5	33.6
Totals	187,554	193,576*	128,339.4	43,119.9	7,056.9	7,698.7	22,200.9	40,553.3	5,260.2	2,436.7

Source: U.S. Census Bureau, Population Division; 2008 Missouri DNR Waste Composition Study

^{*}Due to the inclusion of the entire populations of Sullivan, Belle and Richland there are discrepancies between County Population and Place Population totals. Tonnage is based on Place Populations.

Waste Materials Recycled: According to a 2013 report prepared by U.S. EPA, Americans generated about 254 million tons of trash and recycled and composted over 87 million tons of this material in 2013 – the equivalent of a 34.3 percent recycling rate. On average, Americans recycled and composted 1.51 pounds out of our individual waste generation rate of 4.4 pounds per person per day. In 2013, Americans recovered over 64.7 million tons of MSW through recycling, and over 22 million tons through composting. National statistics show that recycling rates, excluding composting, currently average 1.12 pounds per person per day/.204 tons per person per year. With the .663 tons municipal solid waste generated per person per year and .204 tons recycled per person per year, the national recycling rate is 27.3 percent.

The paper and paperboard recycling rate in 2013 was 63.3 percent, down from the 2012 rate of 64.6 percent. The glass recycling rate also fell slightly, coming in at 27.3 percent in 2013 after reaching 27.7 percent in 2012. The plastics recycling rate, at 8.8 percent in 2012, rose to 9.2 percent during the most recently reported year.

The survey process that was included in this study was designed around collecting data that would assist in determining a meaningful recycling rate for the ORSWMD. Data was collected through a combination of site visits, telephone interviews and mailed surveys and included questions on the following types of recyclables being collected by recycling programs to include the following materials:

- Commingled materials
- Glass containers: clear, amber, green, mixed glass, other glass
- Lead acid batteries
- Metals: aluminum cans, tin/steel cans, major appliances, other ferrous, other nonferrous, other metal
- Paper: magazines, newspaper, corrugated container, office paper, telephone directory, mixed paper, other paper
- Plastic: PETE, HDPE, PVC, LDPE, PP, PS, mixed plastic, other plastic
- Tires
- Wood: wood packaging, other wood
- Electronics
- Household Hazardous Waste
- Used Motor Oil
- Tires
- Other recyclables

It was hoped that the surveys would be the primary source of data for this ORSWMD recycling rate study and would provide good local information to use to validate, support and enhance national and state estimates. This proved to be incorrect due in part to the following reasons:

- 1) The majority of cities offering recycling opportunities do not capture volumes of materials recycled by material;
- 2) Recycling centers including the Rolla Recycling Center and the St. Robert Transfer

Station do track overall volumes of materials accepted but don't track or have limited information broken down by political subdivision. This is due in part to the hours that the recycling centers are open to the public;

- 3) The majority of businesses that accept recyclables don't record volumes collected;
- 4) For those cities and businesses that do track volumes, there are inconsistencies in the volumes that make it difficult to convert to a common number (e.g..quantity in numbers versus weight of certain materials);
- 5) Businesses accepting recyclables don't distinguish volumes collected by place; and
- 6) For those cities and businesses that do track volumes, there is a lack of consistency between cities in tracking by material. For example, data for plastics in some cases is for #1 and #2 plastics combined without breaking down further. This was found to be especially the case with paper data terms used varied between collectors and data captured varied. This makes it impossible to combine data in a meaningful way to develop district wide numbers and prohibits being able to do comparisons from community to community on materials collection for recycling.

The waste characterization study completed by the Midwest Assistance Program (MAP) on behalf of MDNR in 2008 included estimated waste diversion and recycling rates that closely followed national statistics. Because state numbers closely mirrored national numbers and the 2008 study is somewhat dated, this recycling rate study used the most recent information available in the EPA 2013 Materials Management Study. This study's 27.3 percent recycling rate was used for determining district numbers.

Using the recycling rates established by the EPA in the agency's Materials Management Study, the total annual tonnage recycled in the ORSWMD should total 35,036 tons per year if the district is recycling at the national average. This is based the total municipal waste generation for the district of 128,339 tons/year x.273 = 35,036 tons of materials recycled in the ORSWMD per year.

Table 8 breaks down the estimated amount of materials currently being recycled in the District based on the national recycling rate of 27.3 by all cities and counties located in the Ozarks Rivers Solid Waste Management District.

Table 8: Material Recycled in ORSWMD By Place Based on National Recycling Rate

County/City	County Pop. 2014 (Est.)	Place Pop. 2014 (Est.)	Annual Tons MSW	Annual Tons Recycled
Crawford County	24,650	16,000	10,608.0	2,895.9
Bourbon		1,627	1,078.7	294.4
Cuba		3,383	2,242.9	612.3
Leasburg		336	222.7	60.7
Steelville		1,709	1,133.0	309.3
Sullivan (all)*		7,054	4,676.8	1,276.7
West Sullivan		119	78.8	21.5
Dent County	15,655	10,650	7,060.9	1,927.6
Salem		5,005	3,318.3	905.8
Gasconade County	14,866	8,580	5,688.5	1,552.9
Bland		523	346.7	94.6
Gasconade		215	142.5	38.9
Hermann		2,378	1,576.6	430.4
Morrison		137	90.8	24.7
Owensville		2,626	1,741.0	475.2
Rosebud		407	269.8	73.6
Maries County	9,013	7,083	4,696.0	1,282.0
Belle (all)*		1,535	1,017.7	277.8
Vienna		599	397.1	108.4
Phelps County	44,847	19,499	12,927.8	3,529.2
Doolittle		610	404.4	110.4
Edgar Springs		204	135.2	36.9
Newburg		455	301.6	82.3
Rolla		19,926	13,210.9	3606.5
St. James		4,153	2,753.4	751.6
Pulaski County	53,436	38,140	25,286.8	6,903.2
Crocker		1,081	716.7	195.6
Dixon		1,514	1,003.7	274.0
Richland (all)*		1,839	1,219.2	332.8
St. Robert		5,747	3,810.2	1,040.1
Waynesville		5,365	3,556.9	971.0
Washington County	25,077	21,477	14,239.2	3,887.3
Caledonia		131	86.8	23.6
Irondale		449	297.6	81.2
Mineral Point		351	232.7	63.5
Potosi		2,669	1,769.5	483.0
Totals	187,554	193,576*	128,339.4	33,944.9

Source: U.S. Census Bureau, Population Division; 2008 Missouri DNR Waste Composition Study, EPA Materials Management Study

^{*}Due to the inclusion of the entire populations of Sullivan, Belle and Richland there are discrepancies between County Population and Place Population totals. Tonnage is based on Place Population.

The limited data collected through the survey process demonstrates a much lower recycling rate from the national average — an average of less than eight percent. Table 9 shows the local recycling information provided through surveys and compares current recycling tonnage to tonnage of recyclables based on the national rate of .204 tons per person per year and the national recycling rate of 27.3.

Table 9: Local Recycling Rates

Municipality	Population	Annual Waste Generation by Tons	Tonnage Recycled: National Rate	Tonnage Recycling: Local Data	Local Recycling Rate %
Dixon	1,514	1,003.7	274.0	52.31	5.21%
Hermann	2,378	1,576.6	430.4	142.25	9.02%
Potosi	2,669	1,769.5	483.0	354.00	20.00%
St. James	4,153	2,753.4	751.6	60.00	2.17%
Rolla	19,926	13,210.9	3,606.5	2,583.00	19.55%
St. Robert	5,747	3,810.2	1,040.1	93.32	2.44%
Waynesville	5,365	3,556.9	971.0	9.5	0.26%
TOTAL	41,752	27,681.2	3,950.1	3,294.38	11.9 Avg. %

Source: MRPC Recycling Study Surveys

The 2013 EPA Materials Management Study further breaks down the recycling rates of selected materials. In 2013, the rate of lead-acid battery recovery was about 99 percent and based on the survey results, this rate would most likely be the same for the ORSWMD. The 2013 EPA rate of newspapers/mixed papers recovery was about 67 percent, and over 60 percent of yard trimmings were recovered.

Three materials whose recycling rates are rising including yard trimmings, selected consumer electronics and food. According to the EPA study, in 2013, the rate of yard trimmings composting was 60.2 percent, up from 57.7 percent. This translates to 130 pounds per person per year of yard trimmings composted. The rate of selected consumer electronics recovery was 40.4 percent, up from 30.6 percent. This translates to eight pounds per person per year recovered. The rate of food recovery was 5.0 percent, up from 4.8 percent. This translates to 12 pounds per person per year composted. Chart 3: Recycling Rates of Selected Products illustrates the various recycling rates for different materials as determined in the 2013 EPA Materials Management Study.

National Recycling Rates Percentage of Selected Materials 99 ■ Recycling Rate (Percent) 70.6 67

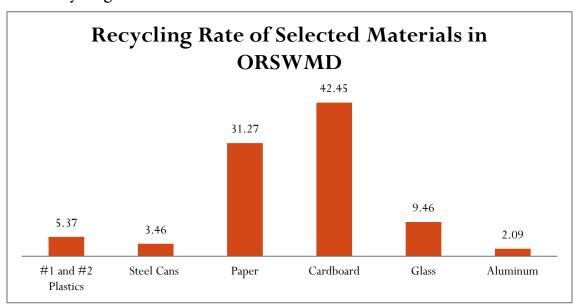
Chart 3: National Recycling Rates of Selected Products: 2013

60.2 55.1 40.5 40.4 34 31.3 28.2 Car. Thes Glas Containers Headers Headers Hilly Faund Bordes Steel Can's Mixed Paper's Trinning's Soda Can's Yard Trinning Reet & Soda Can's Arinning Reet & Soda Can's

Source: US EPA Materials Recovery Report 2013

Using local data gathered from the surveys, the recycling rates of certain materials was collected. It is important to note that local data was limited – the following rates were based on information provided from six municipalities including Dixon, Hermann, Potosi, Rolla, St. James, St. Robert and Waynesville.





Source: MRPC Recycling Study Surveys 2015

Comparing local data with national data, paper/cardboard local rates are closest to the national rates. 2013 rates for paper/cardboard were 63.3 percent and district local rate for these materials was 73.7 percent. Although local data wasn't available to document other materials, the survey process did provide other local information regarding some materials. It is assumed that the rate of recycling of lead-acid batteries mirrors the national average of 99 percent, based on surveys of businesses in the region. This appears to be almost a closed-loop material. The recycling of tires is also estimated to follow national rates of 40.5. The low rate of aluminum recycling is influenced by the existing market for aluminum. It is assumed that the district's rate of recycling of aluminum would also follow national rates if the district was able to obtain volumes from recycling companies that pay for aluminum.

Using the 2013 Materials Management publication produced by EPA that includes recycling rates of selected materials, the following table provides information on the quantity of recycled materials that would be available if recycling rates in the district followed national rates.

Table 10: Annual Tonnage of Materials Recycled in ORSWMD Assuming 2013 National Recycling Rates

MSW Components	Percentage of All Waste	Percentage of MSW	Tonnage Generated by Material	Recovery Rate as % of Generation	Annual Tonnage Materials Recycled
All MSW	58.30		128,339.4		
Paper	19.60	33.62	43,147.7	63.3	27,312.4
Glass	3.17	5.44	6,981.6	27.3	1,905.9
Aluminum	0.93	1.94	2,489.7	2.8	69.7
Non Ferrous	0.12	0.21	269.5	68.2	183.7
Steel	1.71	2.93	3,760.3	33.0	1,240.8
Plastics	10.06	17.26	22,151.3	9.2	2,037.9
Food Waste	10.04	17.22	22,100.0	5.0	1,105.0
Wood Waste	0.69	1.18	1,514.4	15.7	237.7
Textiles	2.76	4.73	6,070.4	15.2	922.7

Source: US EPA Materials Recovery Report 2013

It was difficult to determine a recycling rate for the ORSWMD as a whole as the district was unable to collect complete data on quantities from the surveys completed. For the purposes of illustration, the national rate of 27.3 percent of total tons municipal solid waste generated has been used to determine the current rate of recycling. However, using the limited data captured, the actual rate in the ORSWMD is more likely less than half the national rate. The information that was available showed a recycling rate of 11.9 percent. Table 11 shows the totals by place of the total municipal waste generated; the total materials available for recycling; the total annual tons recycled based on the national rate of 27.3; the total annual tons recycled based on the estimated district rate of 11.9; and the cost to landfill the materials that could be recycled but are currently being landfilled.

It is important to note that this information is provided as an illustration, primarily as the local data by place was in many cases not available or not complete enough to determine a solid recycling rate for those cities that do offer recycling programs. Also, many of the cities in the district have very limited or no recycling opportunities and in these cases it is likely that the actual recycling rate is lower to much lower than even the estimated district rate of 11.9. It should also be noted that the 11.9 estimated district recycling rate has been applied to all communities in the region for the sake of illustration, including those communities whose recycling rates may differ based on survey data (see Table 9).

Comparisons were also made between the national and ORSWMD recycling rates of selected materials, identifying the lost revenues for materials currently being landfilled in the District. For the purposes of illustration, materials including glass, plastics, paper, steel, textiles and wood were included. The rates for the different materials are based on national and District data (See Charts 3 and 4).

Table 11 uses the figure of 67.31 percent for materials available for recycling based on estimated percentages of paper, glass, plastic, ferrous and non-ferrous, textiles and wood waste. This figure does not include food waste (17.22 percent of the waste stream) due to composting of food waste is not currently feasible in the region based on a study conducted by the City of Rolla and experiments done on food waste composting on Fort Leonard Wood. The 53.44 percent figure used for determining how many recyclables in the region are being landfilled is established by subtracting the estimated regional recycling rate of 11.9 percent from the 67.31 percent.

The following assumptions can be made based on the extrapolations from Table 11:

- ➤ If the estimated recycling rate of 11.9 percent is applied region wide, approximately 19,331 tons of materials are being recovered from the MSW stream.
- There are at least 71,000 tons of materials (excluding food waste) currently being landfilled in the region that could be recovered.
- > By recovering all or part of this recyclable material, the region could save as much as \$3,484,435 in landfill costs

Table 11: Annual Tonnage of Materials Recycled/Landfilled in ORSWMD

County/City	Annual Tons MSW	Materials Available to Recycle by Tons (67.31%)	National Avg. Annual Tons Recycled	Current Annual Tons Recycled (11.9%)	Recyclable Materials Landfilled by Ton (55.41%)	Annual Cost to Landfill Recyclables /\$49 Ton
Crawford County	10,608	7,140.2	2,895.9	1,262.3	5,877.8	\$288,012
Bourbon	1,078.7	726.0	294.4	128.3	597.7	\$29,287
Cuba	2,242.9	1,509.6	612.3	266.9	1,242.7	\$60,892
Leasburg	222.7	149.8	60.7	26.5	123.3	\$6,042
Steelville	1,133.0	762.6	309.3	134.8	627.7	\$30,757
Sullivan (all)	4,676.8	3,147.9	1,276.7	556.5	2,591.4	\$126,979
West Sullivan	78.8	53.0	21.5	9.3	43.6	\$2,136
Dent County	7,060.9	4,752.6	1,927.6	840.2	3,912.4	\$191,708
Salem	3,318.3	2,233.5	905.8	394.8	1,838.6	\$90,091
Gasconade County	5,688.5	3,828.9	1,552.9	676.9	3,151.9	\$154,443
Bland	346.7	233.3	94.6	41.2	192.1	\$9,413
Gasconade (city)	142.5	95.9	38.9	16.9	78.9	\$3,866
Hermann	1,576.6	1,061.2	430.4	187.6	873.5	\$42,802
Morrison	90.8	61.1	24.7	10.8	50.3	\$2,465
Owensville	1,741.0	1,171.8	475.2	207.1	964.6	\$47,265
Rosebud	269.8	181.6	73.6	32.1	149.4	\$7,321
Maries County	4,696.0	3,160.8	1,282.0	558.8	2,602.0	\$127,498
Belle (all)	1,017.7	685.0	277.8	121.1	563.9	\$27,631
Vienna	397.1	267.2	108.4	47.2	220.0	\$10,780
Phelps County	12,927.8	8,701.7	3,529.2	1,538.4	7,163.2	\$350,997
Doolittle	404.4	272.2	110.4	48.1	224.0	\$10,976
Edgar Springs	135.2	91.0	36.9	16.0	74.9	\$3,670
Newburg	301.6	203.0	82.3	35.8	167.1	\$8,188
Rolla	13,210.9	8,892.2	3606.5	1,572.0	7,320.1	\$358,685
St. James	2,753.4	1,853.3	751.6	327.6	1,525.6	\$74,754
Pulaski County	25,286.8	17,020.5	6,903.2	3,009.1	14,011.4	\$686,559
Crocker	716.7	482.4	195.6	85.2	397.1	\$19,458
Dixon	1,003.7	675.5	274.0	119.4	556.1	\$27,249
Richland (all)	1,219.2	820.6	332.8	145.0	675.5	\$33,100
St. Robert	3,810.2	2,564.6	1,040.1	453.4	2,111.2	\$103,449
Waynesville	3,556.9	2,394.1	971.0	423.2	1,970.8	\$96,569
Washington County	14,239.2	9,584.4	3,887.3	1,694.4	7,889.9	\$386,605
Caledonia	86.8	58.4	23.6	10.3	48.0	\$2,352
Irondale	297.6	200.3	81.2	35.4	164.9	\$8,080
Mineral Point	232.7	156.6	63.5	27.6	128.9	\$6,316
Potosi	1,769.5	1,191.0	483.0	210.5	980.4	\$48,040
TOTAL	128,339.4	86,383.8	33,944.9	19,331.5	71,110.9	\$3,484,435

Source: MRPC Recycling Rate Survey and US EPA Materials Recovery Report 2013

Table 12 shows the estimated revenue for specific materials based on the total volume of the material in the waste stream, as well as the estimated revenue potential for materials collected at the national recycling rate (27.3 percent) and the estimated district recycling rate (11.9 percent). The materials selected to highlight include plastic, paper, glass, metal and textiles. This table clearly shows the potential for growth of recycling programs in the region and the estimated income that could be generated by marketable recovered materials. The potential revenue if all of these materials could be recovered is in excess of \$3.6 million.

Table 12: Revenue for Recycled Materials in ORSWMD

Material	Plastic	Paper	Glass	Metal	Textiles
Estimated % of MSW	17.26	33.62	5.44	6.04	4.73
Estimated Price for Recovered Material	\$.02 Per Pound	\$.005 Per Pound	\$1.56 Per Ton	\$.00975 Per Pound	\$.07 Per Pound
Total Est. Annual Tonnage Generated in ORSWMD	22,151.3	43,147.7	6,981.6	8,213.7	6,070.4
Annual Revenue Potential	\$886,052	\$1,725,908	\$10,891	\$160,167	\$849,856
Annual Tonnage Recycled at National Recycling Rate 27.3%	6,047.3	11,779.3	1,905.9	2,242.3	1,657.2
Annual Revenue Potential	\$241,892	\$117,793	\$2,973	\$43,725	\$232,008
Annual Tonnage ORSWMD Recycling Rate 11.9%	2,636.0	5,134.5	830.8	977.4	722.3
Annual Revenue Potential	\$105,440	\$51,345	\$1,296	\$19,059	\$101,122

Source: US EPA Materials Recovery Report 2013, 2008 Missouri DNR Waste Composition Study and MRPC Recycling Rate Survey

Project Evaluation

The project was to be evaluated based on the completion of the report and distribution to member cities and counties and ORSWMD full council members, which was accomplished in October 2015. In reviewing the project, staff expressed regret that the final report was limited by the poor response to requests for information. Staff contacted other solid waste districts that had attempted similar studies, and found that they all reported the same frustration. Although good data was generally available from public sources, private entities either did not track the needed information or refused to share it. Although the study was constrained by these factors, it is believed that this report contains information that is useful for a number of planning applications and will be used for the Assessment Inventory and solid waste plan update.

Exhibits

- **Exhibit 1: EPA Collectors of Recyclables Sample Survey**
- Exhibit 2: List of Materials Included in Recycling Rate Study
- Exhibit 3: Initial Survey of Solid Waste Collection and Disposal Companies; cities,
- **Recycling Facilities, Organizations and Businesses**
- **Exhibit 4: Cover Letter to Solid Waste Collection and Disposal Companies**
- **Exhibit 5: Cover Letter to Recycling Facilities, Organizations and Businesses**
- **Exhibit 6: Cover Letter to Cities**
- Exhibit 7: Revised Survey of Solid Waste Collection and Disposal Companies (to Include Cities)
- Exhibit 8: Follow-up Cover Letter to Solid Waste Collection and Disposal Companies
- Exhibit 9: Follow-up Cover Letter to Recycling Facilities, Organizations and Businesses
- **Exhibit 10: Follow-up Cover Letter to Cities**
- **Exhibit 11: Recycling Study Worksheet**

Ozark Rivers Solid Waste Management District: Recycling Rate Study | 6/1/2015

Exhibit 1: EPA Collectors of Recyclables Sample Survey

SURVEY FORM

About This Form

Collectors of Recyclables

Use this form to collect information on the amount of recyclables collected from residential and commercial sources in your state or locality during the previous year.

Who Should Fill Out This Form:

- Private Recycling Haulers.
- Government Agencies with Collection Crews or Collection Contracts.
- Large Generators (e.g., Grocery Stores, Retail Chains, Government Facilities) that Self-Haul Directly to a Processor or End User.

Important Tips:

- Send a cover letter with the survey form explaining the purpose of the form and how to fill it
 out. Remember to specify which sections of the form you want respondents to complete and
 which sections are optional. Use the sample cover letters provided as guides for developing your
 own.
- 2. Send the glossary and standard volume-to-weight conversion factors to all respondents.
- Before mailing the form and cover letter to respondents, write in the name of your state or locality, reporting period, due date, and return address in the spaces provided at the top of the form.
- 4. Fill in the name of your state or locality throughout the form where indicated.

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Collectors of Recyclables

To Be Completed by the Surv	eyon:
State or Locality:	
Reporting Period:	to
Return This Form to:	
Return This Form by:/	_/
Direct All Questions to: Name	Telephone ()
8	
Respondent Information	on (please type or print clearly):
Name of Company or Government Ag	ency:
Salar action to account	
Address: Street	
City	Zip
Telephone: ()	FAX:()
Name of Contact:	Title:
Are You a: Private Hauler Lan	ge Generator (ith a Collection Crew or a Collection Contract
■ Containment Agency 11	KITA COLLECTION CIENT OF A COLLECTION CONTRACT
Certification	
I certify that, to the best of my knowle	odge, the information reported in this form is accurate and truthful.
Name and Title	Signature Date
THE AID THE	oignature pate

I. Instructions

- √ Refer to the attached glossary for clarification of the terms used in this form.
- √ Report all quantities in tons (1 ton=2,000 pounds). Use the attached volume-to-weight conversion factors to convert your data from cubic yards (or other unit of measure) to tons. If you used these conversion factors to convert your data, indicate "yes" in the appropriate column. If you used other conversion factors, please identify the source in the comments section.
- √ Estimate the breakdown of residential and commercial materials to the best of your ability.
- √ Report any recyclables that were generated as a result of a natural disaster in Part 2 B as construction and demolition (C&D) debris.
- \checkmark Report only quantities collected during the reporting period stated above.

2. Recyclables Collection Data

079	S	ource of Recyc	lable Material		
2A. RECYCLABLE MATERIAL	Residential (tons)	Were EPA Conversion Factors Used?	Commerdal (tons)	Were EPA Conversion Factors Used?	TOTAL (tons)
Commingled Materials (describe in Comments section below)					
Food Wasto					
Glass Containers:	12 11	88 89		101 10	
Clear				4 8	
Amber					
Green					
Mixed Glass					
Other Glass					
Subtotal Glass					
Lead-Add Batteries	Es.				
Metals:					
Aluminum Cars					
Tin/Steel Cans					
Major Appliances					
Other Ferrous	9	6 .		4 3	
Other Nonferrous					
Mixed Metals	2	- 0		9	
Subroal Metak					

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	S	ource of Recyc	lable Material	- 1	
2A. RECYCLABLE MATERIAL	Residential (tons)	Were EPA Conversion Factors Used?	Commercial (tons)	Were EPA Conversion Factors Used?	TOTAL (tons)
Paper:					
Old Magazines					
Old Newspaper					
Old Corrugated Containers					
Office Papers					
Telephone Directories					
Mixed Paper					
Other Paper	(2)	8		49	
Subroal Paper	Ĩ				
Plastic:	85	-35		-0.0	
PETE					
HDPE	5				
PVC					
LDPE	12	8 4		4 4	
PP	Ĩ				
PS					
Mixed Plastic					
Other Plastic					
Subroral Plastic	6				
Textiles					
Tres					
Wood:	**	***			
Wood Packaging					
Other Wood		8 4		9 9	
Subroral Wood					
Yard Trinmings:				- 1	
Brush and Branches					
Grass	65			, i	
Leaves		1 1			
Tree Stumps	0			4) 4	
Mixed Yard Trimmings					
Subtotal Yard Trimmings					

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	s	ource of Recyc	lable Material		
2A. RECYCLABLE MATERIAL	Residential (tons)	Were EPA Conversion Factors Used?	Commercial (tons)	Were EPA Conversion Factors Used?	(tons)
Other Recyclables:					
Subtotal Other Recyclables					
TOTAL (tons)					
Are any of the reported quantif If they are estimates, explain how Explanation of estimates/Comm	v they were determin				

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SURVEY FORM

RECYCLABLE MATERIAL	Were EPA Conversion Factors Used?	AMOUNT RECEIVED (tons)
Agricultural Waste		8
Automobile Bodies		8.
Combustion Ash		
Construction and Demolition Debris	100 000	19 50
Asphalt		8
Concrete		*
Metals	- V	8.
Natural disaster debris		8
Wood		8
Other C&D		8
Industrial Process Waste		8
Municipal Sewage Sludge		
Proconsumor Wasto		%"
Usad Oil		
Other		8.
TOTAL (tons)		
Are any of the reported quantities of If they are estimates, explain how the Explanation of estimates:	estimates, i.e., guesses? y were determined below.	e. R

Exhibit 2: List of Materials Included in Recycling Rate Study

Abbreviation	Recycled Material
CC	Corrugated Cardboard/Kraft Paper
OP	Office Paper/Mixed Paper
М	Magazines
N	Newsprint
#2P	#2 Natural HDPE Plastic (Most Commonly Milk Jugs)
#1PN	#1 PETE Plastic (Including Soft Drink Bottles)
#1PC	#1 PETE Colored Plastic (Most Commonly Laundry Detergent Bottles, Bleach Bottles, Etc.)
PB	Plastic Product Bags
G	Glass
AC	Aluminum Cans
SC	Steel/Tin Cans
HHW	Household Hazardous Waste
YW	Yard Waste
HA	Household Appliances
EW	Electronic Waste
MO	Used Motor Oil
OM	Other Metals
LAB	Lead-Acid Batteries (Typically Vehicle Batteries
OB	Other Batteries (Typically Household-Use, Electronics Batteries)
UT	Used Tires

Exhibit 3: Initial Survey of Solid Waste Collection and Disposal Companies; cities, Recycling Facilities, Organizations and Businesses

Comments: Do you know what the material is Recycled into film repurposed into? Recycled into cardboard recycled/ Email: does it go? (If you self to multiple end-users/brokers, please list all) elsewhere, where Axel Paperstock Plastics Brokers If it is shipped Sold to Apex Picked up by S material on-site or Do you process is it shipped elsewhere? and use the Contact Person: Yes Telephone: provide your best If you do not volumes of materials, Please keep my company name and contact information confidential. estimate. please track quarterly, or annual basis? Per year monthly, Per year Daily, weekly, is being used (pounds, tons, cubic yards, etc.) measurement Please state what unit of tons tons amounts below: volumes, indicate please If you track 40 3 Company Name: Please see list of Plastic film Address: Cardboard Recyclables Material Example: Example Type of & bags

Survey of Materials Being Recycled in the Ozark Rivers Solid Waste Management District

	Comments:				
	Do you know what Comments: the material is recycled/ repurposed into?				
	If it is shipped elsewhere, where does it go? (If you sell to multiple end- teas/brokers, please list all)				
	Do you process and use the material on-site or is it shipped elsewhere?				
	If you do not track volumes of materials, please provide your best estimate.				
	Daily, weekly, monthly, quarterly, or annual basis?				
	Please state what unit of measurement is being used (pounds, tons, cubic yards, etc.)				
ä	If you track volumes, please indicate amounts below:				
Company Name:	Type of Material (i.e. #1 plastic, newsprint, corrugated cardboard, motor oil, etc.)				

Exhibit 4: Cover Letter to Solid Waste Collection and Disposal Companies

MEMORANDUM

TO: Solid Waste Collection and Disposal Companies in the Ozark Rivers Solid Waste

Management District

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: January 16, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

I am writing today to ask for your assistance in gathering data on the volumes and types of materials being recycled in the Ozark Rivers Solid Waste Management District (ORSWMD). The district includes the counties of Crawford, Dent, Gasconade, Maries, Phelps, Pulaski and Washington. The Meramec Regional Planning Commission (MRPC) is contacting all of the companies and/or organizations that might accept recyclables from any of those seven counties. As some solid waste collection and disposal companies also do recycling, we are including the waste haulers in our survey. If your company does not participate in any recycling activities, you may simply make that notation on the enclosed survey and return it in the envelope provided.

MRPC is working with the ORSWMD to gather data on the volumes and types of materials being recycled in our region. We are collecting information in an attempt to establish a recycling baseline for our region. This information will help the district gauge the success of local recycling programs and assist the district in future planning. If you have questions or concerns regarding the data being collected, or wish to have your information kept confidential, please contact us and we will be happy to insure that your business/organization name will not be released.

We are collecting data specific to the ORSWMD. If you collect materials from outside this seven-county area, and do not track your material by county, we would ask that you try to estimate what you are collecting from just our seven counties. Attached is a spreadsheet with questions regarding the materials that you may collect. If you already have a spreadsheet that includes the same information, you may forward that document instead.

Please complete the following information and return the survey to us no later than February 9, 2015. Again, thank you for your assistance. If you have questions or concerns, please contact me at (573) 265-2993, extension 104 or via email at tsnodgrass@meramecregion.org.

TS

Enclosures

Exhibit 5: Cover Letter to Recycling Facilities, Organizations and Businesses

MEMORANDUM

TO: Recycling Facilities, Organizations and Businesses in the Ozark Rivers Solid

Waste Management District

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: January 16, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

I am writing today to ask for your assistance in gathering data on the volumes and types of materials being recycled in the Ozark Rivers Solid Waste Management District (ORSWMD). The district includes the counties of Crawford, Dent, Gasconade, Maries, Phelps, Pulaski and Washington. The Meramec Regional Planning Commission (MRPC) is contacting all of the companies and/or organizations that might accept recyclables from any of those seven counties.

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Please complete the following information and return the survey to us no later than February 9, 2015. Again, thank you for your assistance. If you have questions or concerns, please contact me at (573) 265-2993, extension 104 or via email at tsnodgrass@meramecregion.org.

TS

Enclosures

Exhibit 6: Cover Letter to Cities

MEMORANDUM

TO: Cities in the Ozark Rivers Solid Waste Management District

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: January 16, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

Meramec Regional Planning Commission (MRPC) would appreciate your assistance in providing input on a recycling rate study that the Ozark Solid Waste Management District (ORSWMD) has funded. MRPC is working with the ORSWMD to gather data on the volumes and types of materials being recycled in our region. We are collecting information in an attempt to establish a recycling baseline for our region. This information will help the district gauge the success of local recycling programs and assist the district in future planning.

Attached is a survey form that has been developed to collect information from the cities located in the solid waste district. On this form, cities are requested to provide information on the recycling programs available to your residents. If you operate your own recycling programs, the survey form includes sections for you to provide information on the types and amounts of materials you collect. We are also gathering information on any companies providing recycling services within your community and we are requesting your help in identifying these businesses. We will be reaching out to these businesses to obtain collection rates from them in order to help us determine a recycling rate for your city that is accurate and complete.

Please complete the following information and return the survey form to MRPC no later than February 9, 2015. If you have questions or concerns, please contact me at (573) 265-2993 or via email at tsnodgrass@meramecregion.org. I thank you sincerely for your assistance as we work to gather information on the recycling opportunities and programs offered and available in your community and throughout the MRPC region and the Ozarks Rivers Solid Waste Management District.

TS

Enclosures

Exhibit 7: Revised Survey of Solid Waste Collection and Disposal Companies (to Include Cities, Organizations and Businesses)

Survey of Materials Being Recycled in the Ozark Rivers Solid Waste Management District

Argyle		Doolittle	Mineral Point	St. James
Belle		Edgar Springs	Morrison	St. Robert
Bland		Freeburg	Newburg	Steelville
Bourbon	uc uc	Gasconade	Owensville	Sullivan
Caledonia	nia	Hermann	Potosi	Vienna
Chamois	Sic	Irondale	Richland	Waynesville
Crocker	er e	Leasburg	Rolla	Westphalia
Cuba		Linn	Rosebud	
ne Following N	Aaterials Are Included in Oza	The Following Materials Are Included in Ozarks Rivers Solid Waste Management District Recycling Rate Study:	n District Recycling Rate Study:	
Abbreviation	Recycled Material			
20	Corrugated Cardboard/Kraft Paper	Paper		
OP	Office Paper/Mixed Paper			
M	Magazines			
z	Newsprint			
#2P	#2 Natural HDPE Plastic (Most Commonly Milk Jugs)	ost Commonly Milk Jugs)		
#1PN	#1 PETE Plastic (Including Soft Drink Bottles)	Soft Drink Bottles)		
#1PC	#1 PETE Colored Plastic (M	#1 PETE Colored Plastic (Most Commonly Laundry Detergent Bottles, Bleach Bottles, Etc.)	tles, Bleach Bottles, Etc.)	
PB	Plastic Product Bags			
ŋ	Glass			
AC	Aluminum Cans			
SC	Steel/Tin Cans			
MHI	Household Hazardous Waste	e e		
λM	Yard Waste			
ΗA	Household Appliances			
EW	Electronic Waste			
WO	Used Motor Oil			
MO	Other Metals			
LAB	Lead-Acid Batteries (Typically Vehicle Batteries	Ily Vehicle Batteries		
08	Other Batteries (Typically Ho	Other Batteries (Typically Household-Use, Electronics Batteries)		
TO	Used Tires			

Survey of Materials Being Recycled in the Ozark Rivers Solid Waste Management District

Company Name:	.e:			Cont	Contact Person:			
Address:				Tele	Telephone:	- Er	Email:	
Please keep m	y company na	Please keep my company name and contact information confidential.	information co	nfidential.	Yes N	No		
Type of Material (i.e. #1 plastic, newsprint, corrugated cardboard, motor oil, etc.)	If you track volumes, please indicate amounts below:	Please state what unit of measurement is being used (pounds, tons, cubic yards, etc.)	Daily, weekly, monthly, quarterly, or annual basis?	If you do not track volumes of materials, please provide your best estimate.	Do you process and use the material on-site or is it shipped elsewhere?	If it is shipped elsewhere, where does it go? (If you self to multiple end-users/brokers, please list all)	Do you know what the material is recycled/ repurposed into?	Comments:
Example: Office paper	15	tons	Per year			Picked up by Apex Paperstock	Recycled into cardboard & paper	

	Comments:				
	Do you know what comments: the material is recycled/ repurposed into?				
	If it is shipped elsewhere, where does it go? (If you sell to multiple end-users/brokers, please list all)				
	Do you process and use the material on-site or is it shipped elsewhere?				
	If you do not track volumes of materials, please provide your best estimate.				
	Daily, weekly, monthly, quarterly, or annual basis?				
	Please state what unit of measurement is being used (pounds, tons, cubic yards, etc.)				
ë	If you track volumes, please indicate amounts below:				
Company Name:	Type of Material (i.e. #1 plastic, newsprint, corrugated cardboard, motor oil, etc.)				

Survey of Materials Being Recycled in the Ozark Rivers Solid Waste Management District

n:	Email:	Our city does offer recycling programs to our residents. Yes No Pour city does offer solid waste collection services to our residents. Yes No Pour city does not provide solid waste collection services and/or recycling services to our residents. These services are provided by the following company/companies:	Please specify services provided that may include: curbside collection, drop-off collection, recycling (to include types of materials accepted)		community:	Types of Recyclables Collected/Accepted		
Contact Person:	Telephone:	es to our residents. Yes No Yes No Yes I	Contact/Address if Known		ed by the following businesses in our	Contact/Address if Known		
City:	Address:	Our city does offer recycling programs to our residents. Our city does offer solid waste collection services to our residents. Our city does not provide solid waste collection services and/or rec company/companies:	Solid Waste Collection/Recycling Company		Other recycling services/opportunities are offered by the following businesses in our community:	Business		

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Do you know Comments: what the material is recycled/ repurposed into?	Recycled into cardboard Recycled into film		
If it is shipped Dc elsewhere, where wt does it go? (If you self is to multiple end-usersbrokers, please list all)	Picked up by Axel Recy Paperstock card Sold to Apex Recy Plastics Brokers film		
Do you process and use the material onsite or is it shipped elsewhere?			
If you do not track volumes of materials, please provide your best estimate.			
Daily, weekly, monthly, quarterly, or annual basis?	Per year Per year		
Please state what unit of measurement is being used (pounds, tons, cubic yards, etc.)	tons		
If you track volumes, please indicate amounts below:	40		
Type of Material (i.e. #1 and #2 plastic, glass, aluminum, tin/steel cans, newsprint, corrugated cardboard, etc. Please also include information on household hazardous waste, household appliances, electronics, motor oil, tires, etc.	Example: Cardboard Example: Plastic film/bags		

Please add another page if necessary to include all items collected/accepted.

Exhibit 8: Follow up Letter to Solid Waste Collection and Disposal Companies

MEMORANDUM

TO: Solid Waste Collection and Disposal Companies in the Ozark Rivers Solid Waste

Management District

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: March 30, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

Meramec Regional Planning Commission (MRPC) would appreciate your assistance in providing input on a recycling rate study that the Ozark Solid Waste Management District (ORSWMD) has funded. MRPC is working with the ORSWMD to gather data on the volumes and types of materials being recycled in our region. We are collecting information in an attempt to establish a recycling baseline for our region. This information will help the district gauge the success of local recycling programs and assist the district in future planning. If your company does not participate in any recycling activities, you may simply make that notation on the enclosed survey and return it.

Attached is a survey form that has been developed to collect information from the solid waste collection and disposal companies and cities located in the solid waste district. On this form, you are requested to provide information on the recycling programs available to your customers. The survey form includes sections for you to provide information on the types and amounts of materials you collect.

Please complete the following information and return the survey form to MRPC no later than April 15, 2015. If you have questions or concerns, please contact Candace Connell at (573) 263-8651 or via email at connell@wavecomputers.net. You can also contact me directly at (573) 265-2993, extension 104 or via email at tsnodgrass@meramecregion.org. I thank you sincerely for your assistance as we work to gather information on the recycling opportunities and programs offered and available in your community and throughout the MRPC region and the Ozarks Rivers Solid Waste Management District.

TS

Enclosures

Exhibit 9: Follow-up Cover Letter to Recycling Facilities, Organizations and Businesses

MEMORANDUM

TO: Companies Located in the Ozark Rivers Solid Waste Management District that

Provide Recycling Opportunities

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: March 30, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

I am writing today to ask for your assistance in gathering data on the volumes and types of materials being recycled in the Ozark Rivers Solid Waste Management District (ORSWMD). The district includes the counties of Crawford, Dent, Gasconade, Maries, Phelps, Pulaski and Washington. The Meramec Regional Planning Commission (MRPC) is contacting all of the companies and/or organizations that might accept recyclables from individuals, businesses or cities located in any of those seven counties. If your company does not participate in any recycling activities, you may simply make that notation on the enclosed survey and return it in the envelope provided.

MRPC is working with the ORSWMD to gather data on the volumes and types of materials being recycled in our region. We are collecting information in an attempt to establish a recycling baseline for our region. This information will help the district gauge the success of local recycling programs and assist the district in future planning. If you have questions or concerns regarding the data being collected, or wish to have your information kept confidential, please note this on the survey form. We will insure that any request for confidentiality will be honored.

We are collecting data specific to the ORSWMD. If you collect materials from outside this seven-county area, and do not track your material by county, we would ask that you try to estimate what you are collecting from just our seven counties. Attached is a spreadsheet with questions regarding the area that you provide recycling opportunities to and the materials that you collect. If you already have a spreadsheet that includes the same information, you may forward that document instead.

We greatly appreciate your time and contribution to this recycling rate study. We ask that you complete the following information and return the survey to us by April 15, 2015. You can also scan the completed survey and email to Candace Connell at her email address provided below. If you have questions or concerns, please contact Candace Connell at (573) 263-8651 or via email at connell@wavecomputers.net. You can also contact me directly at (573) 265-2993, extension 104 or via email at tsnodgrass@meramecregion.org. Again, thank you for your assistance.

TS Enclosures

Exhibit 10: Follow Up Cover Letter to Cities

MEMORANDUM

TO: Cities in the Ozark Rivers Solid Waste Management District

FROM: Tammy Snodgrass, Assistant Director/Environmental Programs Manager,

Meramec Regional Planning Commission

DATE: March 30, 2015

SUBJECT: Recycling Rate Study for the Ozark Rivers Solid Waste Management District

Meramec Regional Planning Commission (MRPC) would appreciate your assistance in providing input on a recycling rate study that the Ozark Solid Waste Management District (ORSWMD) has funded. MRPC is working with the ORSWMD to gather data on the volumes and types of materials being recycled in our region. We are collecting information in an attempt to establish a recycling baseline for our region. This information will help the district gauge the success of local recycling programs and assist the district in future planning.

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Please complete the following information and return the survey form to MRPC no later than April 15, 2015. If you have questions or concerns, please contact Candace Connell at (573) 263-8651 or via email at connell@wavecomputers.net. You can also contact me directly at (573) 265-2993, extension 104 or via email at tsnodgrass@meramecregion.org. I thank you sincerely for your assistance as we work to gather information on the recycling opportunities and programs offered and available in your community and throughout the MRPC region and the Ozarks Rivers Solid Waste Management District.

TS

Enclosures

Exhibit 11: Recycling Study Worksheet

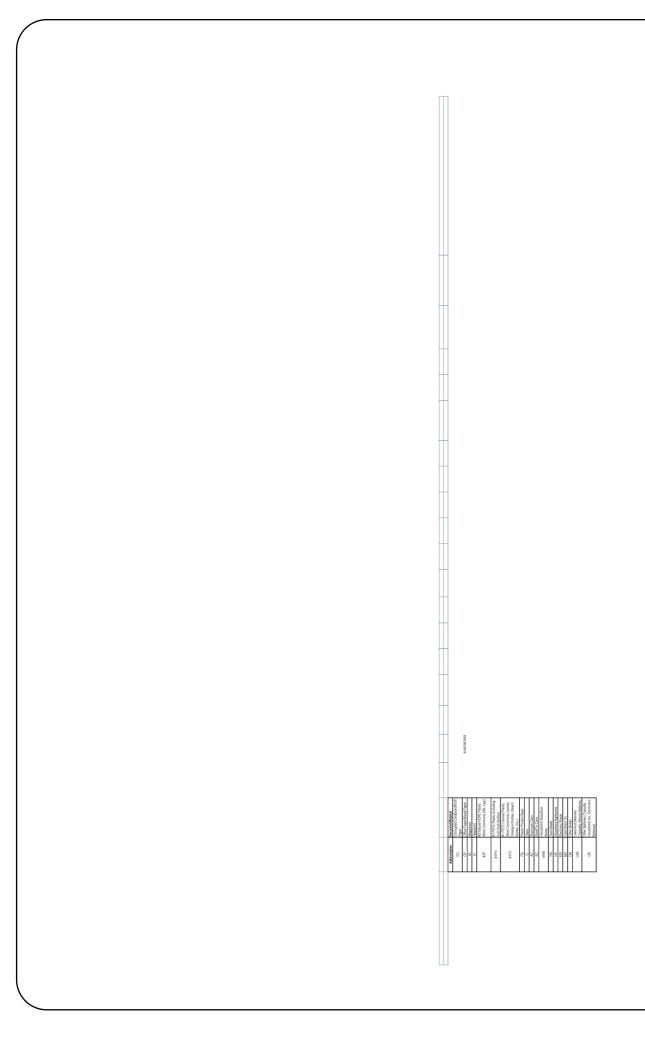
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Done Balls	CC, PB, Wood Pallets LAB, MD	CC, Pl., Wood Pallets, \$21,504-6715. LAIL, MD Witherlye brawel (Swaza orcos)	AutoZare, Inc. 80387, 651 Huy, 72 Wes, Nafa, MO. 65401		1.5 Ton/Year Plasts Streik Weap				S.6 Tors/New	294 Lists/969	-	20 Calons/Year		Motor oil disped in Sofri dien, All other collected markeds are objeped to Austicon Covids, Illness Exclusion Center, Mar collect SPC-units word publicy per year.
ortisen	CC, PS, Wood Pales, LAS, MD	Sim Braseeth, 523 364 6735. Nemberiya braseeti@sensa one.com	Autožire, nc. 14413, Sti til Scent Neer, Salen, MO. 65590		Oli Toru/Year Plasts Strink Whap				1.4 Tonylies	(20 Linty/hear	- 57	30 Gallomu/Year		Mont oil frigged to Softs (Nee, All other collected materials are shipped to Austicon Davelle, illness Daufbasten Gester, vlav collect 200 ants: word public per year.
to Zone(St. Asbert.	CC, PS, Wood Palless LAB, MD	CC. Pg. Wood Pallets, ST1-304-(715, LMS, MD Amberly brands@susa. cre.com	Austine, inc 12370, 395 Massun Ave., St. Robert, MO. 65394		L.4 Teru/froat Plasts Sernis Whyp				3.5 Tonylies	205 Lenn, Press		20 Callang Year		Motor oil dispect to Salety Gleen, All other collected materials are aligned to Aussignet Charalle, lifests Charlesten Genoe, "Ros collect SGG units wood pallets per year.
and the same	CC, FB, Wood Pallers, LMB, MD		Austree, to: 16424, 474 I. Serica M., Sulvan, Ms. 6380		L1 Tara/Year Place Skriik Wings				1.6 Tors/1926	L42 URIL/Star		100 Callens/Vear		Montr oil Angred to Sohts Gees All other collected materials are abgred to Austicen Darvids. Wests Darbuister Center, Also collect 212 ants wood paless per year.
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Dad Tres	Ne longer offers recycling	573-438-7368	310 West High Steet, Peterl, Mo. 53664											
for Med Probasy and Roycleg	AC SC DW	523-222-5900	S40 N. Hary SE, Sourbert, MO. 65401 1121 Hearet G6 West.			Not Tracked	sed NorTracked						Not Traded	Accepts all non-terrors metals and leeps individual tidens on amounts accepted but does not complet seats of materials officered.
un Erzerprize, LLE-Caled with no onsieer and no way to in missager mail imbanoid	Not Able to Corcact	53-774-025	Waynewille, MD. 65583									-		
After Ten Service - Jugals Atthur	1,48,180, T	Angala Arthur 521-725-7145	IDD South MacArthur St., Selem, MD. 63550							35/Year		SO Gallanu/Year (748 Tirru/Year		Time are picked up by Champiter The Nocycling, Johns for a per one change, waste oil is picked up by Crystal. Clean and depending an quantits, paid for or picked-up for free, and batteries are neumed to supplier.
A.C. Aston Platfics	MO, 148	20.775.216	29 E. Hary B. Seedarlie, Mo. 05363							Note Touring		Not Tracked		The business door recyclinion and business by recurring old business replaced for constructs to the recurrence of the business. They also accept used most tell-they go as they collect to an extending the uses it for a description of the contract of the collect to the extension and the contract of the collect the collect to the extension and the collect
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n of toda	No Recycling Offered		200 Cast Ird 51, Tele, MO, 62033											City of hele recommended contacting Maniss County School Bothst. The district offers proper recycling, Called 523-879-3800 and both manage with Aptiley are 4.27-15.
of stand	No facycling Others.	Rackel Arderson No Recycling Offered 1573 649-3252: Mandroog/comuny/infused	P.O. Baw 40, 109 Colorado Ave., Bland, NO. 65014											Curtains pick-up of solid waza provided by Sweeger Santasion and WCA
of Entition	No facycling Offered	Cathy Beener, City Clerk, \$19-732-5550	423 North Old Highway 86, P.O. Box 164, Bourborr, NO. 45441											Server Samzono pravoles catalate pols up of solid water. Residents can take their respisalists on Springiale. Respiring ar Boarbon Metals. The Boarbon schools do provide some respiring.
and Candaria	No facucing Others	UN DISCHALSTS 779 3492, ch/0398 cemanisel met	P.O. Box 300, 130 Webcar Road, Calebras, MO. SISSE											Regiet Corrania Menagement/Rhillip Cook offers cathade trinsh pick-up to residents in the Cin. This company little for exhill but discontinued after a girst progettiv vais discontinued. Nonycling is no longer available to residents in the community.
of Oother	NVN	began						210 Uts./iii Months						Shipped in transfer station
and the same	No Recycling Offered	State Subsein 523- 1 885 6453. publicado Sifferes com												Curtado picto ap of solid seates provided by Sweiger Santarion France Valley Clopsons, 2373 Hesp. 23, Cubbs, No. 85453
of Spee	No Securing Offered	No Necycleg Offered S28-759-6115, Recycleg Offered S28-759-6115, Glochridishindonesman	P.O. Box 177, 319 South She St., Short, Mo. 67459											City considered resolve but was too exponence. The Cheen Area Centra and the Doorn high School after some recycling opportunities for existents. Residents make that own arrangements for cold waste pick-up.
7 Dooltite	Na Recycling Offeres	No Recycling Offered 529-759-6115; disclaration disclarations and	380 Exerbower Street, halls, MO. 65401											City of Deen provides salis waste cuttable pick-rup.
of Edyn Spinings	No faculding Offeres	No faculting Offered Americana, 573-475- 6334,	P.O. Box 13, 555 Micadway R., Edgar Springs, MD, 15462											City contexts with Wissie Corporation and of Newborg for solid water pick-up har residents. No recycling exportenties are available.
arting Provided by Chonne Salvages lectored remaided and leaved on 2011 records.	Ascycleg Provided by Ottorer Sakogo Locate in Hermann	Assysting Provided by Provide Heavey, Chy Clerk, Otherer Salvage Lexand 533-485-5400 and Mark in Hermann. Wallace, Chy Admin.	1902 Jefferson Sc., Bermann, Mo. 65462	S Tonyinur 6.25 Tonyinur	2	7.5 Tony Year	Year STon/Year	22.5 YangYear 5.5 YangYear	bruffese 21.5 Teniffese					Coy recordly leased ranging operation/holling to be spart to originary - state Otthers. The Coy controls with The Scient's hashing and counseling for carbotist solds water priors. They are not sower of they other receiping principles in the Coy of Internation. The coy also collected 6.3 transform in Pallets, 6.3 transform in Sough Blood, and 3.1. Stanform in other Marial.
oy of rendan	No Recycling Offered	Amanda Shelton, City Cherl, 573-749-3223	P.O. Box S3, irondale. No. 63548											Obyconoscis with CRI Republic for curbade pick-up-of solid waze. There are no other knownexyding repentantives within the City.
of solution	No Securing Offered	No Regulary Offered 523-245-6565; Institute District Institute District	P.O. Bes 390, Leoburg, Mo. 65535											
and Monthles	No Recicling Offered	Andrea Patterson, City Oers, 573-438-1487	P.O. fee 127, 701 Score Street, Mineral Paint, Mo. 63660											Residents organe their own soft Anate sention, Healter in the area include Pastells Serview, altern Sentation I Beery Sestation, ead IST Sestations. The health dens offer drop off recicle for configuration and event fellows in a some in Mercal Paste.
Dy of Muritise	No Recycling Offered Pauls		405 Hwy 100, Manison, Mo. 65061											
O of Venturing	No facuting Offered	lanes Poucher, 523 742-2315, orytolipildret.com	Street, Neaberg, M3. 6550											Carthales pain way of suited muster provided by South Trans, Charlette, No.
		Nathan Schael, STR 437-2912;	207 West Sears.											Curbate pick-up of oald wash provided by Switzger Sentation, P.O. Box 10, Cida, MD., S73-885-7796. Also

	The second secon	Same Assessment of the Contract of the Contrac	ACCOUNTS OF	ACCORDING TO SECURITION OF SEC	THE PARTY OF THE P	Manhachteleries	din same	Name of the last	Munimum T	Tin/Steet Com.	Micel Paper Or	Office Pages Car	Carthours Maga	Magazines Dectronics		Batteries - Lead-Acid Motor Dis		Used Time Major Appliances	Misjor Appliances / Steel Household Rezardous Wante	Additional Information
The of Policie.	No Recycling Officered by Ony, Ony contracts with Republic Services for curbade recycling 20/morth	No Recycling Officed by City, City cartestics with Roger Coleman, City Clerk, Republic Services for 571-439-2307 Cartoble recycling. 22/meeth	. 121 East High St., Pressl, Mo. 63664																	City contracts with Beapalic Services for custable pick-up of rescribbles and solid water. Pick-up is take a mostly to other rescribe as defined to the City.
guardina de propiesa de la constanción de constanci	All Plantes, CC	1299-592-925	20t South Chestrus, Richland, MD.																	December 2017, Distances and Carlo C
City of Notin/Roda Recycling Center	Plastics,CC,N/MP.)/P/O S73-354-6593 P,AC,7/JSC,G,F,199W	no Brady Wilson - 573-364-6593	2141 Old St. James Nd., P.O. Bax 979, Rella, Mo. Nos Available 55402		Not Available	Not Available	Mat Available	250 TonyYear 1	13 Tonuffeat 70 T	70 Toss/Year 420	420 Ters/Year 3501	35g Tons/rear 1,550 T	1,550 Tons/Year	40 Tons/Year	1				5 Tons/Year	4,500 Tanu/Year Yard Wasse Also Collected. Set survey form for additional information.
On of Rosebut	No Recyding Offered	d Arn Parker, City Clerk 573-754-7573	P.O. Box 197, 307 North Cedar, Rosebud, Mo. 83351																	Swinger Santanion provides cultide truth pick up but residents arrange - not in contract with the CDy. There is no other recycling apportunity offered.
Dis of Salem Recycling Program - Emailed to Raren on 4-22 and	No Response	Ray Walden, City Admenistrator, 573-729- 4813, economic (i) salemme com-	400 North Iron St., Salem, Mo. 63560																	
Ory of St. semms	C.N.M.P. J.P./DP.AC,T/SC Terry Glason . G.	SC Terry Gibson	100 South Jefferson, St. James, MO. 65559																	Weakly carbiade goti-up collecting average of 1 Too Jovek winter manths and 3 total/meek in summer months. (Ave., July, August). All transported to Rolls Recycling Center. Cry deepin't incid vollernes collected by material.
Dir or St. Accept	See St. Robert Transfe Station	See St. Robert Transfer Anna Ivev, City Station Administrator, 573-451- 2000, clefr@strebbert.com	194 East Lawn, Suite A, Sc. Robert, Mb. 65584																	
Div of Seedable	No Recycling Offered 573-773-2815, stylementory	Shells Anderson, Chy Clerk of \$73-775-2815, stydfmlan.com	Shells Anderson, Chy Clerk, 103 S. Second St. P. D. 573-775-2815, Box Nt. Steelville, Mo. styleman.com 65365																	Chr contracts with Swinger Sanitation for curtacle pick-up of solid water. The Chryesented that nexycling services were not available through Swinger Sanitation. No other recycling is offered or provided by the Chry
On of Saltonn	Recycling Offered by Swinger Sanication.	Recycling Offered by 468-4612. Swinger Sentration challengement recus	210 West Washington St., Sullvan, Mo. 63180																	Swinger Santanion provides outside pids-up of solid waste. The City said that Swinger Santantin also provides cumbine recycling pids-up for readers, solveger take collected materials to the City of facilia flexycling Center. No other recorder is offered or recoiled by the City.
One of Veens	Shery Janes, 573-421 3549, bio Recyding Offered spanse@vierna	System areas, 573-421-3549, sparse@vietmamissouri.or e	474 8th St., Vienna, Mo. 65582																7	Curbade solid waste collection provided by Alled Waste, artheron Cey, Me., 573-435-8855
City of Waynesville	No Recycling Offered by Oty-Zegreben Sambaten provides ourb-side recycling pick up 20/morth	No Recycling Offered by Bruce Hamili, City City - Zegeben Administrator, 573-774 Sensitating provides 6131, unit de recycling pick cademidi warmevillenso or up 2/2 mooth y 2/2 mooth	1621 Historic 164 W., Wayntsville, Mo., or 65583																	
ChetTieCo	Not Able to Cortact	1 573-758 6411	208 harth Eles St., Dixon, MD. 65459												Not Tracked	Not Tracked	acked Nat Tracked	ched		sauk auch busents are given to an industrial that contex to pick them up, motor oil is picked by by indesiduals that use for all burning furnicos, and used tites are are buck to the worthouse where they partituse tites from
oleman Trail Service - Called left messages - no response	No Response	573-436 6469 (No Longor in Service) Called cell number 573-3166-7753	IODIZ Neasant View Dr., Cader, Mo. 63630																	
Cook's Wrecher and Salvage	MO, UAB	573-859-3335	21646 Maries Rd 314, Belle, MO. 65013												Not Tracked	Not Tracked	loked			lead-add botteries are repurposed in the shop and the used motor all is used in a oil furnore.
fullens Sakuga - Emalkod survey to Doldber Hessen on 4774 - no re	no res. Ne Response	Debbie Hinsen; 573-764. 3343; debbiehinzon@formal.co m																		
outhy Trash Service - called left messages - no response	No Response	573-341-2190	14397 Co. Nd. 2030, Rofia, Mo. 65401																	
OW of Missour-Sam as Republic Services	See Republic Services 573-438-4301	y- 573-438-4001	10328 Hwy E, Cudet, MO, 63650																D-0	
CWT of Missouli - Same as Republic Services	See Republic Services 572-438-4301	11 573-438-4301	202 West Breton Street, Potasi, Mo. 63664						i				-	-		1	1		_	
Savia Recycling	All Ferrous and Non- Ferrous Metals		16460 Co. Nt. 8240, Rollo, Me. 65401						Not Tracked Not	Not Tracked								Not Tracked		Accepts all ferrous and non-ferrous metals with the exception of vehicles and keeps individual sidess on amounts incorpred but does not complete testis of materials collected.
Distant Or Securiting. Calvie full mussage with on Nack 4/28 and Optioned up with small	No haponse	573-265-1243 St. James Faultsy, Requested contact Mark Drath at 636-397- 6060, mdrahl@ddoncefrecytleg.com	1 14090 Dillen Ouner Road, 3: James, Mo. 65559																	

tone Caring Certer - Emailed survey on 4/28	BLEEP, A.C. N. SC	Mindy; 573-759-3023; disorcaring@grsal.com		L68 tens/Year #1 and #2 Hastics	0.17.10	0.17 Tons/Year 0.40 Tons/Year	at Mixed Paper	S	4.5 Tons/Year			2.24 Tons/Year Other Metals	Metals	All collected materials are shipped and sold to Remains in St. Lauis.
Oloon High School - Emaked Larvey - Erish Michay will complete and omal back to me finz years in May	COP, N.A.SC, MP		Discon Key Club 106 W 4th St., Dwon, J Mo. 65429	31 TongYear	O4 Tors/Year	View S1Tons/Near	.01 Tons/Year	4.79 Toniffee 1.7	1.79 Tons/Year					All collected mannerals are shipped and sold to Federal international.
Out's Tee Shap	E		112 East Lincoln, Dwerswille, Mo. 65066								165 Tee	165 Tires/Moreh		Hael to The Stredder's in High Ridge, MD. Recycled into ribber mulch.
Whose Auto Peris & Regalis	Declined Participation	573-265-3631	134 Parker Lane, St. Jernes, MO. 65559											
Natur Mooor Co.	No Marerials Parycled 573-438-3501		10550 State Hay P. Patosi, MD. 63664											
	#1P,N/MP,HP/OP,C	John Reeves \$73-438-7141	200 Frizzell Drive, 12 Tons/Ye Pressi, Mo. 63664 All Restics	12 Tonyfrest for All Hests			31 Tons/Year	48 Tony/Year 25	263 Tors/Hear					Confibourd sold to Citycle, Mornitors, AR and newspaper, paper and plastics sold to Republic.
seelly Easted Trank Service	No Macerials Recycled	Jessica Waenke 573- 729-5464												
A CLEONARD WOOD RECORDS.	All Mazerals Recycled	ht. [54: 01385]	S73 (MNE-LVW-PW, Balding 222, Lit Street, Fort Leonard Wood, Mo. 55473											Oblich have time is provide influedual bestadauen af storinge by material. Total amual spreuge recycles brouffing deskins and amny wake and construction/demolitien recycling is 20,318 lane. The destrains rate for Pt. Loward Word is correctly 40%.
audonade Coenty Republican : survey in the mall to MIDC.	Srdbeard, Newsprint, Magazines	Cardboard, Newprint, 573-437-2323; 573-437- Magazines 5033, downforb.com	P.O. Box S40, Owersville, Mo. 65066				10 Tons/Year	я	10 Tons/Year 10 Tens/Year					AR materials picked up Dy Kenny Jett
-8W Abint ersance Services	Business Closed		20700 Huy 17, Waynesulle, MO. 85583											
Salt's Recycling Center	All Metals	Angola; 573-729-2326	410 Hwy 68 N., Salem, MD, 65560		Not Tracked	dard NorTraded						Not Traded		Accepts all types of metab - ferraus and non-ferrous metals including vehicles. Yas individual tickets but does nor track termage collected.
	Dedined Participation	573-468-4128	208 West Springfield Rd., Sullivan, MO.											They do resyde the used tires from their contoiners has declined growing any other information.
fermann Adventiser - Called and followed up with enall to Cathr Libey - No Response Received	No Response	Cath Ufey, Manager 573-886-5418; Namer@ks.net	137 Est 4th St., P.O. flox 350, Hermann, Mo. 55041											
evaluta Teras	5	573-775-3800	306 Pine St., Scelulle, MO, 65585								1,950 tires	13		
NOBES THE CARDON	To	573-729-5800	801 Seuth Main, Salem, MD. 62560											
44 Auto Solvino	Declined Participation	573-712-5582	7891 N. Outer Rd., Routhert, MD, 65441											
Waste Solutions	No Materials Recyled in 573-678-2192. MRPC Region rob, james@pro	973-678-2162 Bab James 173-678-2790; crob,pares@progresshewas Richwoods, Mo. 63071 lo.com	12581 State Hwy H, Richwoods, Mo. 63071											
Panter, IC.	No Longer Recycle	10138	104 E. 11th 3t., Rells, MO. 65401											
arres Tine & Walfler	Metals	573-765-3510	203 South Pine, Richland, MD, 65556											hecycle metals that customers bring in. Thes go in the dumpater.
polynis Francisco - call back to the afternoon on the 20th - call to respond on the 20th - call to	MO, UAB, UT	573-364-4815	205 West 10th St., Rolls, MO. 65401							300 Batteries/Menth	Not Tracked 4,900 Tires/Year	revitear		Nationins are used to supplies of new bulleties sold, lines are picked up by Champtain Ties, waste all is picked up by Champtain Ties, waste all is picked up by Energy Perretean.
	Not Able to Cortact	573-422-9940 (not sociéng 232 Hay-42 W, Vienna, namber) MO, 65562	232 Hary 42 W, Wenns, M0, 65582											
nevel	Not Able to Contact	573-438 0020 (not working number)	P.O. Box 131, Pooss, MO, 63654											
welt You take & Tine - Called and left recognition on call hack -	No Sesponse	573-336-4354 121.51. Robert Bird., St. Robert, Mo. 65584	121 St. Robert Bard., St. Robert, MO. 65584											
steade & Unn Recycling	Not Able to Contact	573-437-3992 (not working 1492 Stee Hwy, Y, rumber) Owersville, Mo. 6508	1492 State Hwy, Y, Owerswille, Mo. 65055											
are's Santador-	No Materials Recycled 573-759-2628		14950 Carthage Rd. Disort, MO. 85459											
ange's Too and Martin	MO, Metals	573-855-3913	101 1st St., P.O. Box 922, Belle, MO. 65013		Not Tracked	dad Not Tracked					Not Tracked			Collect all types of ferrous and non-ferrous metals, collects used motor cell and burns for own use. Doesn't recycliters because has to pay to encycle ferrs.
cents Safeage Co., Inc Called Tom Lewis and asked to call back- net able to contract.	No lesponse	573-438-2541	16699 State Hwy E. Cadet, NO. 63630											
rash Service	Not Able to Contact	573-438-2956 (not working, rumber)							_					
org Auto Salvage - cafed left revesages - to call had.	No Sergonse	573-736-2604	HC 3, Cracker, MO. 65452											
Louis MFA Service Station	CWY	Louis 573-486-5823	709 Market St.								1300 gallons per			Positive weeks all furners

		C. Scholasson	ADDRESS VAN BLANK PRINK	The state of the s	The second secon	Mixed Paper	et Office Paper	The state of the s	Control of the Contro	The second second	A CANADA TO A CONTRACTOR OF THE PARTY OF THE	Victoria Control Contr	2000 CONTROL C
seles Courty Guartice	z	573-422-8997	218 South Mais, P.O. Box 202, Vienna, Mo. 65582			Aps. 360 Ubs./Annually	100					<i>z</i>	All collected nowapaper picked up by srea dog breeders for use in bedding materials.
being County School Stents - called and lieb missages for affer. Calls were not reherred.	No Response	Ashley 573-859-1800											
stants for Center	No Manerials Recycled 573-468-8400	rd 573-468-8400	635 East Springfield, Sullivan, MD: 63080										
de tas Services	included in P. Leonard Sames Moore Wood Numbers 573-774-(914	573-774-(914	20700 Hay 17, Waynessille, MO, 65583									,	Recycles all transhold neotables from PL Loncard Wood Including paper, plastic, glass, cardiborad. Does not include aluminant or mutals. Only concerner is PL, Loncard Wood - no sicher respublies collected from other load
Ber Salvage-	All Mecals	573-437-2253	1618 Hay Y, Owerswille, MO, 65066		Not Tracked No	Not Tracked					Not Tracked		Collect all types of ferrous and non-ferrous metals, including automobiles. No volumes are traded or available
oney Auto Supply of Salem (NAPA Auto Parts)	CC, AC, OP, UA, OM	N 573-729-4156	604 E. Scenic Rivers Blvd. Salem, MO. 65560										Cardioard is plaked up weekly by Skeltered Workshipp, alwainant is puked up monthly by Tarlibment Services, effice paper is skelted to fill Besching, bed and beliness to septed up sent-incorbly by Deta Stateries; other imasis is ret alere to illust Reporting as needed. Bro oderms are tracked.
stored Time & Without	Declined Participation	ne Nick - 573-438-8954	306 East High St., Potosi, MD. 63664										fusiness was impacted by terrado. Closed and he doesn't have access to recerds.
stever Salvage, LLC - called left message on 4-27	No Response	573-631-6600	314 East Eth St., Hermann, MO. 65041										
helity Auto Parss	IAB, MD, Used Oil	573-364-5252	112 North Bishop, Rolla, MO, 65401			7			Not Provided	Not Pravided IN	Not Provided		Collect batteries - customers given \$5 credit for used batteries breught iroo stree; collects used motor oil and vendor comes to pick-up, collects used oil illners. Company not willing to share quantities.
Nestly Auto Parts (Chihorst Auto Parts and Repair)	[A8, M0, Used Oil Filters	573-265-1732	810 North Jefferson, St. James, MO. 65559						Not Provided	Not Provided No	Not Provided		Collect batteries - customers gaven \$5 credit for used batteries brought into stree; collects used motor oil and sendor comes to pick-up; collects used oil filters. Company not welfing to share quantities.
lieslly Auto Parts	(AB, MD, Used Oil Filters	573-885-4550	304 North Franklin, Sarte C, Cubs, MO. 65453						Not Provided	Not Provided N	sot Provided		Collect batteries - costomens given \$5 credit for used botsteries brought into stere; collects used motor of and wendor contes to gick-up; collects used all libres. Corropory not willing to alone quartelies.
leally Auto Parts	IA8, M0, Used Oil Filters	573-437-7800	607 East Hay, 28, Owerselle, MO, 65666						Not Provided	Not Provided N	Not Provided		Collect batteries - customers given 55 credit for used botteries braught into stere; collects used motor oil and vendor comes to state, up; collects used toll itters. Company not whileg to share quantities.
Swilly Auto Parts.	LAB, MD, Used Oil Filters	573-468-3293	654 Camberland Way, Sulfivier, MO. 63080						Not Provided	Not Provided N	Not Provided		Collect batteries - customers given \$5 credit for used batteries brought into store; collects used motor oil and revolder coness to side, up collects used oil filters. Company not willing to share quantities.
out Floritaine	8	Nichard, Store Manager; 573-336-7255	St. Robert				60 Tons/Year						Bakes own cardboard place family Dollar store and coaple of other stores drop off cardboard, company from Springfield comes to pick-up monthly and shares is percentage of red of cardboard with Paul's.
Messic cal Mak suck on 4-25 in the receiving	All Ferrous and Non- Ferrous Metals	573-485-7528	752 Highway, P., P.O. Box 2981, Cube, Mo. 65453		Not Tracked No	Not Tracked					Not Tracked		PSC is a corporation with sweetal focusions. The facility manager. Mark - was also to provide test tomage receipted armaily but not able to the above by material. They also accept verticits. Total armail territype cookied armails is 12,000 tensives.
asa Service Center	UT, MO, LAB	573-422-3300	183 Hay 63 Sauth, Vierna, MO. 65582						70 Satteries, Year	Not Tracked 36	360 Tires/Year		All used motor oil is used for heading all in shep, batteries are calcaged and cores are sold to interstate Batteries, tires are picked up by Champter Ties from Kansas.
Isto Tre Service - call corporate headquarters and errolled any to Secti Redus 4-26	No Reponse	973-364-3619, Corporate Headquarters - Scott Rhodes, 1-800-334-5036, plausifressevice@ylausierss ervice.com	2311 North Bahop, Rotta, MO. 05401										e L
no i Disposal	Not Able to Contact	25	409 A. Curtis Dic., P.O. Box 2025, Rofts, Mo. 65402										
preside Waste Sobitims	No Misserials Recycled	70	12581 State Havy H, Eichwoods, Mo. 61071										
scal County Workshop	Plastes, CC, N/MP, H971 P, AC, T/SC, G, E, HHW	All Janes (Director) 573-765- PACT/SC.6.5; HHV	P.O. Box 914, Richland, MD. 65556										Volumes were not available. The Director of the workshop - Laura - is not available until the middle of May and also is the only one who can access volumes of receptables collected.
CR Meeds	Closing Business	573-885-7876	365 Road Furner Lane, Cubs, MD: 65453										Talked to owner. They are closing their business in 4 months - restring. He declined to participate.
endy's Tine & Auto Services	LAB, T, MO	573-775-4448	30 Canter Point Rd., Steelville, MD. 65565						100 Satteries/Year	Not Tracked 1,	1,000 Tires/Year		Battery cones are picked by 8x supplies: tires are picked up by vender (not willing to chare name of vender); all send moter oil used for heading oil for thos.
and/it Tokking and Salvage - called and left messages - no return at	Ne Pargonse	573-468-2480	349 Hawthorne Dr., Sullivan, MD. 63080										
ay's The & Service	MO, LABJUT	Doers Ray 573-265-5252	870 North Jefferson, St. Januer, Mo. 62529						S/Morth	SO Gallons/ Woekly	202/Manth		The are picked up by Champile Tive Recycling. OH is used in all burning stave to host shop, batteries are picked up by this Battery and interests Battery.
syding Works, U.C.	Not Able to Contact	x 573-368-3588	12814 CR 5010, Rolls, MO: 65401										
tecycleg Zone, LLC - talked to Larry and followed up with mailing sarvey on 4-28	All Metals	Larry, 573-437-5050; theone1223@yahoo.com	1640 B Missouri 28, Owensville, Mo. 65066										
equals Services (Passa). Mineral Point, irradale) - emailed from triebbel on 4-24.	No Materials Recycled 800-627-1717	14 808-627-1717	10328 E. State Hwy, E, Cadet, MD, 63630										

obbit Services of Jefferson Chyfallied Wysos Service	Mixed Recycled Mazerials	Monte krebbet: 573-636- 1105; 573-635-8865: rekrebbet@republicaenica	S645 Mareas Buer Access Rd., Jefferson City, MO, 63101								115.58 Tens Co-mingled simple. Provided for the clinic of Linn at	115.58 Tons Co-entigled single-stream resytables collected servably and skipped to Federal Instrustional. Provided for the disas of Lien and Wessphale.
rusid's Salvage	Not Able to Coreact	573-468-6250 (Not workload number)	461 Hawthorn Dr., Sullivan, MC, G1080									
erbolf industries	99	573-416-2152	P.O. Box 121, Hermann, MO. 65641								The company genetates cardoo Communical that the Desirent S	The company generates cardioced waste and stones it. They are looking for a source to take the cardioard. Communicat that the Descent Salvage was not openyided it have room for leaving the cardiocest.
gen Auto Sakage - Called and left messages - ns return call - if returned.	No Response	573-437-3598	1988 Hwy 28, Owenselle, MO. 55065									
ofla Jees Sheltered Warkshop - called and followed up with -	No Response	Rick Kyle; 573-364-2883; ratio@fidest.com	-									
olls Auto Salvage	No Monerals Recycled 573-458-5947	d 573-458-5047	12345 CR 2170, Rolla, MD 65554									
offis Haufing WWK - called left motalges - to return call	No Nesponse	573-762-2149	17103 CR 8190, Newborn MD, 67550									
ref's Tee Service	No Able to Centact	573.364.3137	703 North Rells Sc., Rolls, MD. 65401									
onic Reeny Sheltered Industries, Inc.	CR.N.M	Ellen Barn. 573- 729-626s; ellen@corninsorond.oro	5auth Walter R., Salem Malter R., Salem MO 6000		31 Tors/Year	Year	31 Ton/Year				Curdboard sold to Midland Davi international	Eurobourd sold to Mildard Davit, Newspaper sold to Federal International Magazines sold to Federal Premoteral
obmeyer Auto Salvago	No Materials Recycled		-									
sheered industries of the the Merannac Valley, inc unaded sother servery to Denies relating on 4-18.	United Materials. Recycled										Spoke with Derns Huber. The Support. He explained that they in the services they provide.	Stoles with Derris Holley. The Steltored Workshop has very invised recicling and he had no quantishs to loopport. He auglished that they have changed their business model and made the decision to not antitude recycling in the services they provide.
eed tube - collect local office, decured me to headquarrers.	ON	573-341-9989; Headquarters - contact Mary Lou; \$18-609-2339	1001 Kingshighway, Rolls, MO, 65401						7105 Galleni/Near		Used moose oil serc to company healtparriers	hos squariers.
Bapthops peckepts	Not Able to Cortact	579-285-1924 (Wasn') oble to licene mescage - no answer!	8953 Narth Service Md., e Boarber, Mo. 65441 Option address: S38 Serving Lake Lane, Bearbor, MO. 15441									
ergeen's PHEp's 66 - call lanet between 9 a.m. and neon	UAS, MO, T	573-265-6969: 573-265- 3370	304 North Jefferson, St. James, MO. 65559					No: Tracked	Nat Tracked 652	452 Tires/Year	They recycle all paper, glassis, glass throut the log pick-up; tuckd motor oil is collected the oil; batteries are recycled through say the oil; batteries are recycled through say comes by and pick-up and suits to Okleto.	They records all paper, glassis, glass through City 2, Janes recopling less are plated up and Spragnor's pave per the beyond, Used motor of is collected and they currently lesses a company that pick up but does not pay for the oil, basenins are recording interpolips suppliers, and other axins parts are set out by oil barrel and isomeone some by and pickup and reliate to Differe.
Robert Auto Supply (NAPA Auto Parts)	148	573-316-3023	256 Marshall Dr., 3t. Robert, MD, 65584								Talked to stare manager. She o	Taked to store manager. She completed the survey and mailed it to us. She didn't keep a copy, I can't find it.
Nobest Transfer Station and Recylleg Center	5	2ay Williaker 573-316-5155	194 Eastborn, Safe A., 5,923 Ba, (year: At and 82 Mastes St. Robert, Mo. 65384	1 Bis, Jyear: At and It2 Maskis	4,935 lbs./year	S1,360 lbs./year 125 mixed paper	125,460 lbs./year				Total recytlables collected in 20 Robert in 2016 was 7.18 tons.	Total recyclables collected in 2014 for transfer station was 16.71 sons. Total recyclables collected for Ory of St. Robert in 2018 was 7.18 tons.
eleitle Tare sec.	Not Able to Coreact	573-775-2408	270 Mo. Hey, 8, Saelville, MO. 15565									
rger Sentation	No Materials Recycled	573-885-7596	3975 Hay, 19 North, P.O. Sox 10, Cuba, Mp. 65453									
Patroc - Collect left message and followed up with email	No Response	573-316-7620	SSS Marshall Dr., P.O. Box 885, St. Robert, Mo. 65584									
mCo Metab - Owner will complete and mail back on 4-29 - servi	No Response	573-354-1444	11310 W. 1856 Oaks Rd., Rolls, MO. 65401								1-21	
County Tracking	No Materials Recycled 573-416-3322	-d 573-416-3322	2096 Hay 100, Hermann, Mo. 65941									
Time & Auton	MO, UT	573-775-3528	241 State Hay, TT, Saelville, MO. 65165						Not Tracked Not	Not Telebed	Used moost oil used to hear sho	Jeed moost oil used to hate shop and thes are sett to a company housed in High Nidge. Missouri.
errried Denocrat	8	S73-897-3150; jamw47@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	309 East Main, P.O. Bex 309, Linn, Mo. 62651			ž	dirimal Amount				No recyclables accepted except and don't track velumes.	No recyclables accepted except borns they receive material in. They give cardboard away - didn't stay to whom and don't mak welemes.
Video Supply	148	573-472-3638	506 Hwy 63 S., Vierna, MO, 65582					Not Tracked			Used batteries are collected by 2 britis in a coed battery.	Lized batteries are collected by Battery supplier - they offer a credit to customer on rem battery if customer prens, in a used battery.
Mary Automotive	MO, UT, LAB	523-341-9465	500 South Bishop, Ralls, MO 65401					Not Shared	Not Shared Not	tot Shared	Used oil is accepted at no thangs accepted and if purchasing a res	Used oil is accepted at no charge: tires are accepted with customer positing \$1.50 per tire; car batteries are paccepted and if purchasing a reve battery a credit given on new battery. All materials are transferred to Wal-Mass paccepted.
Mar Anomorius	MO, UT, LAB	573-468-7030	350 Park Ridge Rd., Sulliver, MO, 63080					Not Shared	Nat Shared Not	Not Shared	Used oil is accepted at no thing accepted and if purchasing a ne ougstier	Lised of is accepted at no charge; tree are accepted with contemprating \$1.50 per ties; car batteries are accepted smill parthwaring a resultation; a credit given on rese battery. All materials are transferred to Wel-Mon
Mi-Mar According	MOUTUR	573-316-5103	185 Saint Robert Blvd., St. Robert, MC. 65584					Not Shared	Not Shared Not	Not Shared	Used oil is accepted at it to thang accepted and if purchasing a new supplier	tion of its accepted at the draught tens are accepted with customer paying \$1.20 per ties; car butteries are proposed and if perchading a new butter; a credit given on new batter;. All materials are transferred to Wal-Mass payables.
sahington County Rocycling	Declined Participation 573-436-1998	n 573-436-1992	15056 E. State Hwy E., Cade MO. 63933									
Sacre Corporation of Armetica - left moissages	No Sesponse	Grify Borrebrake, Office 17103 Co. Rd. 8199, Manager, 573-763-800 Newberg, No. 65550	17103 Co. Ad. 8199, Newberg, Mo. 65550							-		
Residen Santaton, called and requested that sarver be faxed												



Ozark Rivers Solid Waste Management District: Recycling Rate Study | 6/1/2015