



**MISSOURI STATE  
RECYCLING PROGRAM  
2015 ANNUAL REPORT**



# Acknowledgements

*Published by the State of Missouri, Office of Administration, Division of General Services*

*Special thanks to the **Department of Natural Resources' - Solid Waste Management Program, Missouri Interagency Recycling Committee (MIRC), Missouri's Market Development Program, and department recycling coordinators and purchasing staff** who contributed to this report. The Missouri State Recycling Program thanks all **state employees** for their ongoing efforts to reduce, reuse, recycle, and buy recycled-content products.*

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## **Cover Page**

*The graphic on this year's cover page shows Missouri super-imposed on a likeness of the globe. This graphic was selected to show that not only is recycling local in nature, but also illustrates that our day-to-day recycling habits connect us to many other places. Our scrap materials are exported to various countries to be utilized as raw materials in the manufacture of new products.*

*A special thank you to the **Department of Economic Development's (DED) Marketing and Communications Team** for providing the graphic on the front cover of this report and **DED's Energy Division** for calculating the economic and environmental savings of state government recycling (see p.14).*



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January 1, 2016

To the Members of the General Assembly of the State of Missouri,

In accordance with RSMo 34.031, the Office of Administration is submitting the Fiscal Year 2015 (FY15) Annual Recycling Report to summarize state government's accomplishments in the areas of recycling, waste reduction, and recycled content product procurement for the period of July 1, 2014 through June 30, 2015.

State law directs state agencies to implement policies for recycling, waste reduction, and procurement of recycled content products. The Missouri State Recycling Program, administered by the Office of Administration, Division of General Services, is responsible for assisting state agencies in these areas. The State Recycling Program works cooperatively with the Missouri Interagency Recycling Committee (MIRC) to facilitate recycling and waste reduction by state employees.

As a result of the efforts of state employees and MIRC, the Recycling Program continues to register solid financial returns and steady development of the State's recycling collection infrastructure. State employees continue to reduce the amount of waste generated at state facilities and the related costs of waste disposal. Recycling and waste reduction highlights from FY15 include:

-  16,154,528 pounds of materials recycled
-  278 billion BTUs of energy saved from total pounds of material recycled. This is equivalent to the annual energy consumption of 2,474 homes.
-  \$12,463,629 of recycled-content products purchased
-  \$159,862 in revenue generated for the state recycling fund
-  \$309,995 in waste disposal costs avoided

Waste reduction achievements of several agencies are summarized on pages 15 – 18 of this report.

We appreciate the support of the General Assembly in our recycling efforts.

Sincerely,

Douglas E. Nelson  
Commissioner of Administration

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# I. Missouri State Recycling Program Organization

## What is the Missouri State Recycling Program?

The Missouri State Recycling Program (**MSRP**) was established in 1989 when legislation added sections 34.031 and 34.032 to Chapter 34 of the MO Revised Statutes. The purpose of the **MSRP** is to assist State of Missouri government agencies with:

- **Procurement** of products manufactured with recycled materials.
- Coordinating **waste reduction** strategies.
- Overseeing the **collection** of recyclables by establishing recycling services contracts.

## Who is the MSRP?

There are three components to the **MSRP's** organizational chart.

The **state recycling coordinator** is dedicated to the planning and administration of recycling and waste reduction activities.

The **Missouri Interagency Recycling Committee** serves an important purpose by providing input on recycling initiatives and communicating with state employees about various recycling programs.

The efforts of **state employees** to recycle ensures the success of any recycling initiative. State employees that recycle are considered a part of the **MSRP**.



## What is the Missouri Interagency Recycling Committee?

The Missouri Interagency Recycling Committee (**MIRC**) was established in 1994. It was recognized the **MSRP** needed a way to communicate procurement and recycling policies throughout state government. **MIRC** is a vital component of the **MSRP** and meets regularly to discuss recycling collection, waste reduction, recycling market conditions and recycled product procurement.

## Who is MIRC?

The Recycling Committee is composed of representatives from various state departments (executive, judicial, and legislative). To learn more about recycling in your department, please contact your **MIRC** member.

A list of members is located on the internet at <http://oa.mo.gov/general-services/state-recycling-program/missouri-interagency-recycling-committee-mirc>

## Missouri Interagency Recycling Committee (MIRC)

By communicating “buying recycled” procurement and recycling collection programs to their respective departments, MIRC members function as the core of the MO State Recycling Program (MSRP). The work of committee members varies - from providing important input regarding MSRP projects such as recycling contracts to monitoring recycling containers to ensure these are being emptied.



MIRC Meeting at Runge Conservation Nature Center

Each year MIRC members are involved with the annual recycling award process by submitting and voting on the nominations.

Another yearly process requiring MIRC member attention is the annual recycling questionnaire. The questionnaire is a key component of the process related to the annual recycling report. Results of the FY15 recycling questionnaire can be found on pages nineteen, and pages twenty-six through twenty-nine of this report. The annual reporting process provides an important assessment of state government recycling efforts each fiscal year.

MIRC members also assist with recycling at numerous events throughout the year - including the Department of Natural Resources’ Earth Day celebration and the Missouri State Fair.

### 2015 MIRC Members



**L. to R. Sitting:** Jeff Thomas (MCHCP), Rhonda Dormire (DHSS), Debbie Davis (DivCU), Nancy Tennison (STO) | **Standing:** Jim Aslakson (MDC), Karen Wood (MDA), Greg Bernskoetter (DED), Gary Stoll (DOC), Nathan Troup (SOS), Stacia Steinman (DPS), Rob Didriksen (OA), Mike Haake (DMH), Anita Stansfield (DNR) | **Not Pictured:** Angie Bisges (OSCA), Kristin Tipton (EIERA), Kevin Baclesse (DSS), Ronald Childs (MOSERS), Stowe Johnson (MoDOT), Sarah Kleinschmit (MoDOT), Gary Burlingame (DOR), Jason Penserum (OA), Glenda Vanderfeltz (OA), Alan Clements (MDA), Jennie Rees (DOC), Kathie Hubbard (MDC), Ron Doerhoff (DED), Rachel Dietzel (DESE), Lisa Morris (DESE), Leroy Wade (DHE), Kim Sandbothe (DivFIN), Leanne Lorts (DivPR), Terry Doerhoff (DOLIR), Brenda Ardrey (DNR), Deb Goodman (MOANG), Lisa Tyree (MOANG), Joe Spencer, SFC (MOANG), Brenda Davis (DOR), Mitch Kolb (Lottery), Stacey Jacobs (STC), Judy Murray (Governor), Kerry Kroll (AGO), Mark Henley (Auditor), Don Dickey (Supreme Court), Dawn Korsmeyer (Supreme Court), Brad Werner (House), Jon Burton (Senate), Barbara Morrow (HSSU), Benny Lewis (HSSU), Hiedi Carlin (MSSU), Craig Darrrough (MWSU), John Viau (NWMSU), Sarah Steinnerd (SEMO), Angie Mitchell (SEMO)

## II. FY15 Overview: State Recycling Program Goals

### FY15 Goals

**Goal #1:** Increase the percentage of writing instruments with recycled-content material procured from statewide office supplies contracts.

**Background:** An important part of the recycling process is to purchase products made from recycled materials. This is commonly referred to as “closing the loop”. Procurement of recycled-content products helps to insure there are markets for scrap materials such as paper and plastic. In addition, RSMo 34.031 states, “The commissioner of administration ... shall give full consideration to the purchase of products made from materials recovered from solid waste ...”

Procurement of writing instruments (pens, pencils, etc.) made from recycled-content materials by state agencies in FY13 and FY14 from the statewide office supplies contract were 5.2% and 4.98% respectively.

**Results:** Contractor supplied procurement reports indicate the percentage of recycled-content writing instruments purchased by state agencies increased slightly over 2% to 7.26% of overall purchases in FY15 when compared to FY14.

Percentage of Recycled Content Pens Purchased

Fiscal Year	Recycled	Virgin	Total (recycled +virgin)	Percent of Purchases with recycled content
FY13	\$9,896	\$180,256	\$190,152	5.20%
FY14	\$13,784	\$262,948	\$276,732	4.98%
FY15	\$15,724	\$200,794	\$216,518	7.26%

**Goal #2:** The total purchase amount of 3-ring binders from statewide office supplies contract in FY15 will be less than the two year average amount spent on 3-ring binders.

**Background:** In FY13 and FY14 state agencies purchased \$163,765 and \$189,936 respectively of 3-ring binders from the statewide office supplies contract. Average annual purchases of 3-ring binders for these two years is \$176,850.

Numerous state agencies utilize the Purchasing Committee listserv to dispose of 3-ring binders to other state agencies for reuse (see p. 18 of this report). By promoting the reuse of 3-ring binders within state government, procurement of 3-ring binders is expected to be reduced.

**Results:** Contractor supplied procurement reports show total 3-ring binder purchases by state agencies in FY15 of \$155,250. The FY15 total is 12% less than the two year average total cost of 3-ring binders of \$176,850.

### FY16 Goals

**Goal #1:** Increase the percentage of recycled content writing instruments purchases to greater than 7.26%

**Goal #2:** Further reduce the amount of 3-ring binder purchases by promoting the reuse of binders within state government.

# FY15 Overview: Collection of Recyclables

## FY15 Recycling Rankings

### Where Does All of This Information Come From?

Each year the State Recycling Program distributes the annual recycling questionnaire to state agencies through the MO Interagency Recycling Committee (MIRC). The questionnaire serves several purposes which include:

- Informing state employees and agencies about available recycling services.
- Communicating to employees the amounts of materials recycled via state contracts as well as dollar amounts of recycled products purchased from state contractors.
- Requesting collection data to quantify amounts of materials recycled.
- Requesting procurement data to quantify dollars spent on recycled-content products.

A summary of the results of this information gathering process is provided on this page. For more detailed information please see

Appendices A and B.



Top 3 "Number of Gallons" Recycled		
1.	Motor Oil	97,096
2.	Anti-Freeze	55,903
3.	Cooking Oil	9,341

Top 3 "Number of Items" Recycled		
1.	Fluorescent Lamps	38,864
2.	Pallets	24,974
3.	Printer Cartridges	10,203

Recycled-Content Product Purchases Over \$100,000		
1.	Paper Products	\$4,688,175
2.	Metal Products	\$4,337,065
3.	Office Supplies	\$1,628,932
4.	Plastic Bags	\$596,348
5.	Carpet/Construction Products	\$532,102
6.	Remanufactured Printer Cartridges	\$304,469
7.	Refurbished Furniture	\$188,543
8.	Cardboard Boxes	\$125,949

Scrap Materials Where More Than 10,000 pounds Was Recycled		
1.	Scrap Metal	5,038,062
2.	Mixed Paper	4,186,646
3.	Cardboard	3,244,236
4.	Tin/Steel Cans	1,298,964
5.	Tires	626,948
6.	Food/Yard Waste	563,020
7.	Electronics	414,095
8.	Commingled Materials	389,173
9.	Aluminum	182,240
10.	Rechargeable Batteries	74,981
11.	Plastic	74,072
12.	Glass	12,122

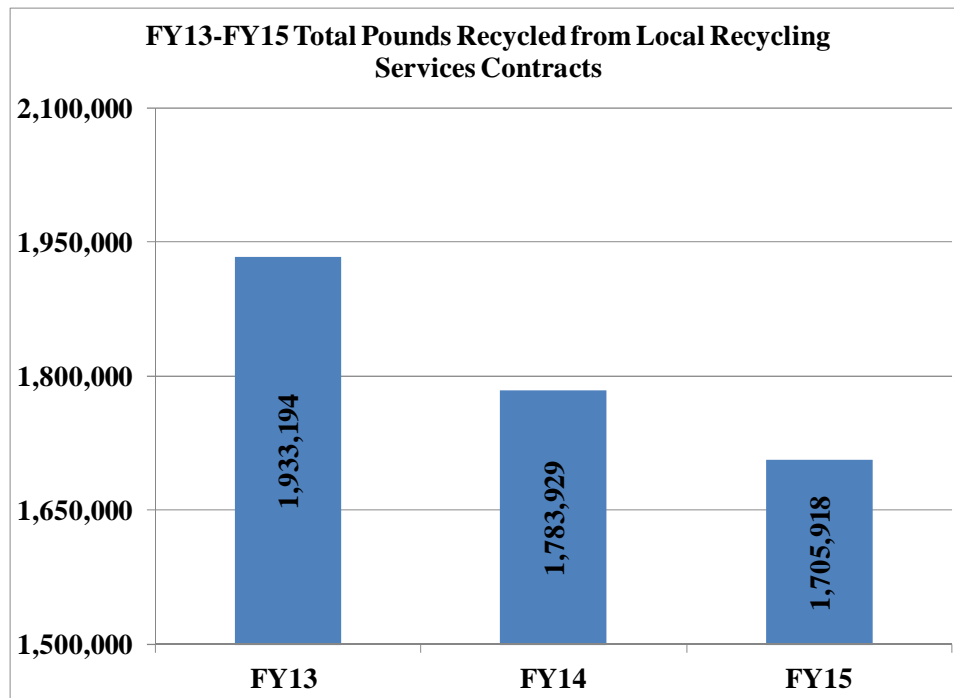
State Agencies Recycling More Than 10,000 Pounds		
1.	Department of Corrections	5,323,571
2.	MoDOT	4,374,599
3.	Department of Revenue	605,967
4.	Department of Public Safety	537,936
5.	Secretary of State	395,681
6.	Department of Mental Health	343,885
7.	Department of Natural Resources	302,414
8.	Department of Agriculture	176,730
9.	Office of Administration	113,429
10.	Department of Conservation	40,383
11.	Department of Social Services	35,769
12.	Department of Health & Senior Services	13,092



## Local Recycling Services Contracts

During Fiscal Year 2015 (FY15), the Missouri State Recycling Program (MSRP) administered three local recycling services contracts. State agencies in Jefferson City, Kansas City, and St. Louis had access to recycling services under these contracts for recycling of office paper and cardboard. In the Jefferson City and St. Louis areas, the contracts provided state agencies with an option to recycle commingled materials such as plastic bottles and aluminum cans. Here is a summary of the total pounds of material collected for recycling in FY15.

	<u>Kansas City</u>	<u>St. Louis</u>	<u>Jefferson City</u>	<u>Material Totals</u>
Mixed Paper	12,288	11,997	1,082,198	1,106,483
Cardboard	14,907	9,430	533,917	558,254
Commingled	—	4,750	—	4,750
Aluminum	—	—	18,551	18,551
Plastic	—	—	13,410	13,410
Steel (tin) Cans	—	—	4,470	4,470
<b>Total Pounds</b>	<b>27,195</b>	<b>26,177</b>	<b>1,652,546</b>	<b>1,705,918</b>



# Local Recycling Services Contracts

## Jefferson City

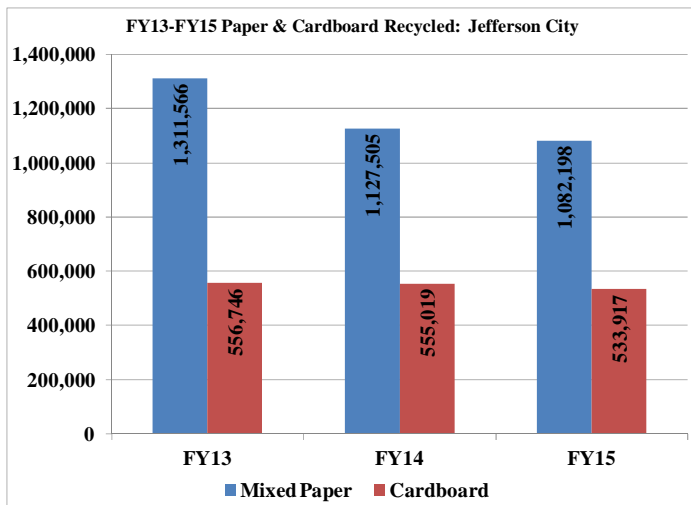
Mixed paper is the most recycled material by weight and volume by state agencies in Jefferson City. There were approximately eighty locations recycling mixed paper in FY15. State agencies recycled an average of over 20,000 pounds of paper each week in FY15. There was about a four percent drop in the amount collected in FY15 as compared to FY14. This may be attributable to more agencies utilizing document destruction services for paper disposal (see p. 13). Another reason for the drop may be related to a decrease in paper consumption as more state agencies utilize electronic media to conduct business.

There were approximately fifty locations collecting cardboard for recycling in FY15. Total cardboard collected - including baled and loose material - amounted to an estimated 533,917 pounds.

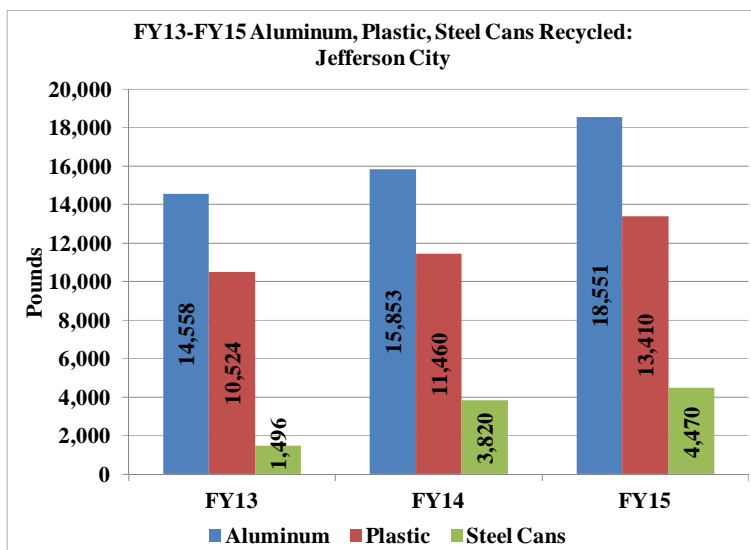
This amount includes 72,619 pounds of baled cardboard collected from the Truman Building and the Highway Patrol warehouse. This means on average more than 10,000 pounds of cardboard is recycled per week by state employees in Jefferson City.

There were forty-five locations on the commingled beverage container collection route in FY15. Collections of beverage containers in FY15 increased 17% as compared to FY14. State agencies recycled a total of 18,551 pounds of aluminum cans; 13,410 pounds of plastic bottles; and 4,470 pounds of steel cans in FY15.

The subcontractor, Kingdom Projects (a sheltered workshop), provided collection services for cardboard and commingled materials — sorting beverage containers at their recycling facility located in Fulton.



Kingdom Projects employee collecting cans & bottles



# Local Recycling Services Contracts

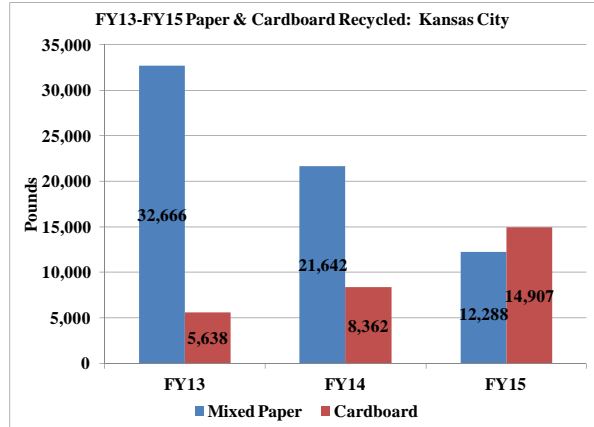
## Kansas City

During FY15, the Kansas City contract offered state agencies the opportunity to recycle cardboard and mixed office paper.

The amount of cardboard recycled by state employees in Kansas City increased about 78% in FY15 when compared to FY14. Total cardboard recycled in Kansas City for FY15 was 14,907 pounds.

The amount of paper recycled in Kansas City in FY15 was 12,288 pounds - a 43% drop when compared to the amount collected in FY14.

There were four months out of the twelve month reporting period where the contractor reported zero paper collected for the month. This is likely attributable to the sustained down markets for scrap paper. As the value declined it became increasingly difficult for the contractor to justify picking up one or two containers of paper. During a strong scrap paper market picking up a few containers of paper made economic sense.

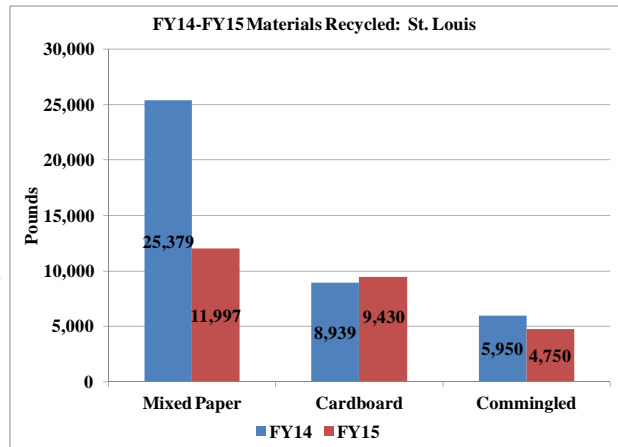


1000 pound bales of paper await shipment to a mill to make toilet paper, paper towels, or office paper

## St. Louis

The St. Louis recycling services contract allows state agencies to recycle materials in two “streams” where fiber materials (paper and cardboard) are collected in one container and non-fiber materials such as aluminum, steel, and plastics are collected in a separate container.

Pounds of material recycled by state employees in the St. Louis area include 11,997 of mixed paper; 9,430 of cardboard; 4,750 of commingled materials such as aluminum and plastic. At the end of FY15 there were ten state agency locations on the collection route.

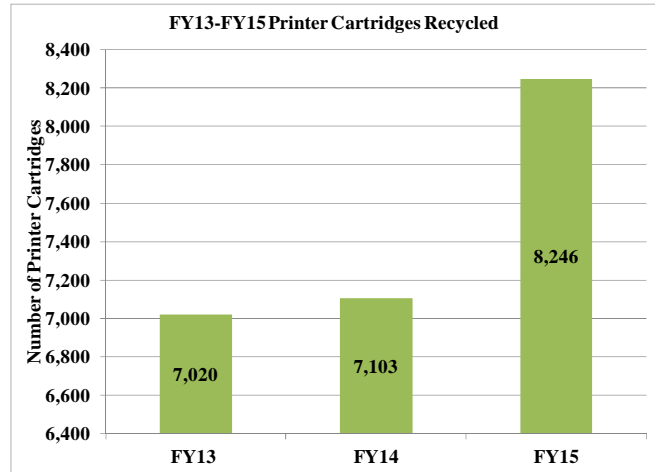


There was a significant drop in the amount of mixed paper collected in FY15 compared to FY14. This is likely attributable to the sustained down markets for scrap paper. As the value declined it became increasingly difficult for the contractor to justify picking up one or two containers of paper. During a strong scrap paper market picking up a few containers of paper made economic sense.

# Statewide Recycling Services

## No-Cost Services

The Missouri State Recycling Program (MSRP) administered two no-cost statewide recycling services for state agencies in FY15. These convenient services allowed state employees to recycle printer cartridges or rechargeable batteries. In addition, the Office of Administration’s Division of Purchasing administered two fee-based contracts for document destruction and lamp recycling.



### Printer Cartridge Recycling

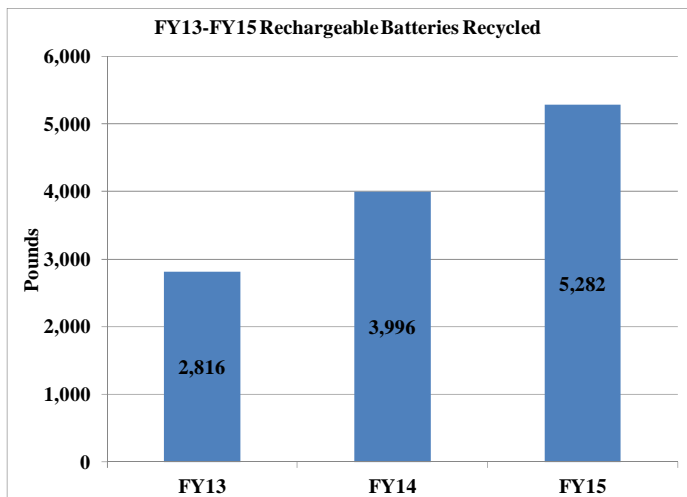
State agencies have numerous options for recycling printer cartridges. The chart to the right details only those recycling activities where state agencies used either the State Recycling Program’s printer cartridge collection service or MO Vocational Enterprises’ (MVE) service. Agencies that returned printer cartridges to the “original equipment manufacturer” (OEM) are not accounted for in this chart. The total number of printer cartridges recycled or remanufactured through these agencies increased 16% in FY15 as compared to FY14.



*Pallets of printer cartridges ready to ship to a cartridge remanufacturing facility*

### Rechargeable Battery Recycling

Ten departments utilized the rechargeable battery recycling service in FY15 and recycled 5,282 pounds of rechargeable batteries - resulting in a 32% increase as compared to FY14.



Over the past twelve years, Missouri state government efforts have resulted in the recycling of 47,516 pounds of rechargeable batteries. Twenty-five locations throughout Missouri utilized this service in FY15.

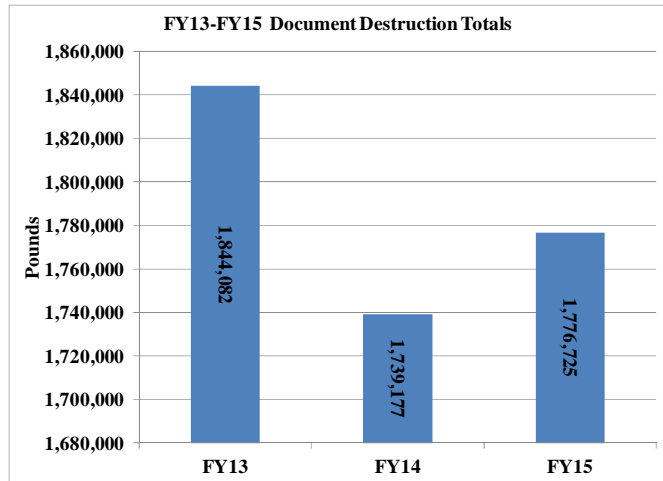


# Statewide Recycling Services

## Fee-Based Services

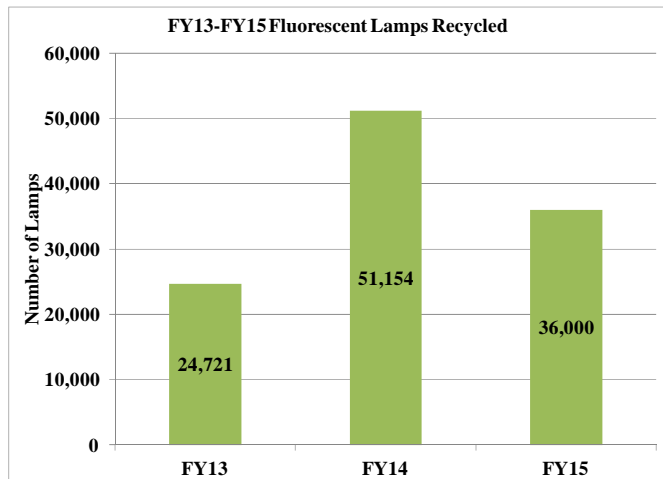
### Document Destruction Contract

This service contract provided state agencies throughout Missouri an opportunity to have confidential documents destroyed and the shredded paper recycled. Cost for services varied and was based on document volume and the location of the state agency. The chart to the right shows the amount of records destroyed in FY15 increased slightly compared to FY14.



### Lamp & Ballast Recycling Contract

This contract allowed for the recycling of fluorescent and incandescent lights and related equipment (i.e., ballasts), as well as non-rechargeable batteries. Due to the mercury contained in fluorescent lighting, used fluorescent bulbs are regulated as universal waste in Missouri. Special packaging, handling, and labeling requirements govern the disposal of fluorescent lighting.



There was a significant drop in the number of lamps recycled in FY15 as compared to FY14. This is likely attributable to a project that was coming to a close in the Truman Building in FY15. The Truman re-lamping project replaced approximately 14,000 fluorescent lamps



with LED (light emitting diode) lamps. The State Recycling Program covered costs for several state agencies to recycle fluorescent lamps in FY15.

*Pallets of used fluorescent lamps ready to ship to the recycling facility*

# Measuring the Economic and Environmental Savings of Materials Recycled\*

## Energy Reductions (Economic Benefits) Related to Recycling\*

The amount of material recycled by state employees in FY15 resulted in an estimated reduction in energy use of 278,105,000,000 (over 278 billion) BTUs. This amount of energy is equivalent to ...

- **Conserving 2,474 households' annual energy consumption** or ...
- **Conserving 47,867 barrels of oil** or ...
- **Conserving 2,244,844 gallons of gasoline**

## Carbon Dioxide Reductions (Environmental Benefits) Related to Recycling\*

State of Missouri recycling efforts resulted in an estimated reduction of greenhouse gasses of 29,513 MTCO<sub>2</sub>E (metric tons of carbon dioxide equivalent). This is equivalent to . . .

- **Removing annual emissions from 6,213 passenger vehicles** or ...
- **Conserving 3,320,894 gallons of gasoline** or ...
- **Conserving 1,229,699 cylinders of propane used for home barbeques** or ...
- **Conserving 159 railway cars of coal**

The Department of Economic Development, Division of Energy utilized the Environmental Protection Agency's Waste Reduction Model (WARM) as a way to measure the economic and environmental savings of materials recycled by state agencies in FY15.

The WARM model helps us to better understand the benefits of alternative end-of-life waste management decisions such as recycling. This model is a lifecycle assessment tool which considers the energy usage and greenhouse emissions from raw material extraction until product disposal. This includes material assessment, all product transportation, manufacturing, and disposal. The model compares different disposal scenarios such as recycling, landfill, incinerating, composting, and source reduction.

The above carbon dioxide and energy reduction estimates include a majority of the materials listed in the tables in Appendix A of this report. Materials not included in the WARM model calculations include all items listed in the table in Appendix A entitled "Number of Items and Gallons Recycled" (books/bound publications; cell phones; fluorescent lamps; incandescent lamps; printer cartridges; fuel/oil filters; pallets; anti-freeze; cooking oil; motor oil; and paint). In addition, the following items from the "Number of Pounds" table in Appendix A are not included in the WARM model calculations: textiles; batteries (rechargeable/non-rechargeable); and ballasts. These items are not included because the WARM model does not account for these materials.

**\*The Missouri State Recycling Program thanks the Department of Economic Development, Division of Energy for calculating these estimates utilizing the EPA's WARM model.**



## FY15 Overview: Annual Recycling Award

Each year the State Recycling Program accepts nominations for the Annual Recycling Award. Employees, departments, or agencies are eligible to be nominated for outstanding contributions made in the areas of recycling collection, waste reduction, and/or recycled content procurement. Members of the Missouri Interagency Recycling Committee review the nominations and vote for an individual and agency award. The State Recycling Program encourages nominators to submit information demonstrating the *value* of the nominee's recycling efforts. *Value* could include costs avoided, revenue generated, ongoing leadership/commitment/passion/enthusiasm, or environmental benefits.

### FY15 Annual Recycling Awards

**TEAM AWARD:** Onondaga Cave State Park was selected by the Missouri Interagency Recycling Committee (MIRC) as the winners of the FY15 State Recycling Award. MIRC members were very impressed with the comprehensive, long-term sustainability plan that Onondaga has initiated. Onondaga scored high marks in each of the annual award scoring categories. Here is a summary of those categories and what Onondaga Cave State Park has done to achieve high scores in each category.



*Front Row L to R: Maria Potter, Rachel Lickliger, Lorian Moore, Connie Stephens. Back Row L to R: Aaron Sanders, Dwayne Bostick, Michael Miller*

**Leadership:** Onondaga Cave State Park management served on the Sustainability Steering Committee for Missouri State Parks (MSP). Of the 87 parks and historic sites managed by MSP, Onondaga has one of the most thorough and comprehensive plans in the agency. An audit of their sustainability plan determined the Park was up-to-date with their sustainability goals.

**Measurable Outcomes:** Onondaga has doubled the amount of material recovered for recycling since 2013 - from 3,052 pounds in 2013 to 6,101 pounds in 2015. The Park's recycling plan is very detailed and includes park operations as well as recycling options for park visitors.

**Education and Outreach:** One aspect of this category that stood out with Onondaga's nomination is that education includes park employees. Recycling is a regular agenda item at monthly staff meetings. Onondaga staff also develop programs for park visitors to inform and encourage recycling. *Recycled Art Afternoons* is an interpretive program where visitors are guided in making art from what would otherwise be waste materials. The *Renewable Energy and Recycled Living Fair* is another event where visitors learn about sustainability and recycling.

**Exceeding Standards:** One of the recurring themes in Onondaga's nomination is that the park and its staff "walk the walk" when it comes to sustainability and recycling. Park staff seek out "green" products for sale in the gift shop - including products made from recycled or post-consumer materials. Staff are also committed to recycling of difficult-to-recycle materials such as styrofoam™. Park employees regularly incorporate delivery of these items into their drive home or travels to meetings.

# FY15 Overview: State Agency Accomplishments

## FY15 Annual Recycling Award Honorable Mentions

The State Recycling Program thanks those who took the time to make a nomination and at the same time wants to recognize the patience, passion, and persistence the nominees have exercised with their efforts to reduce, reuse, and recycle state government waste.

- Northwest Missouri State University | Hardscape & Recycling Team
- Office of Administration | Information Technology Services Division
- Department of Natural Resources | State Parks - Wakonda State Park

## Long Time Recycling Committee Member Retires

For the past 21 years Rhonda Fogelbach has served on the Missouri Interagency Recycling Committee (MIRC) as the representative for the Department of Public Safety (DPS). Rhonda was one of the original MIRC members when the committee was formed in 1994. Her work on the MIRC has kept DPS informed about recycling initiatives and has benefited her agency by reducing the amount of waste generated.

Rhonda excelled in communicating recycling information to the myriad of state government agencies within DPS. She was the champion of recycling in her office — not afraid to let someone know that the item they just put in the trash could be recycled. She contributed to Earth Day by assisting with recycling collection and more recently the annual Zero Waste Challenge.

The Missouri State Recycling Program thanks Rhonda for her many years of service to promote stewardship and protect Missouri's resources.



Rhonda Fogelbach

## State Agency Recycling Efforts Avoid Cost of Waste Disposal

The efforts of agencies statewide resulted in a combined total of **8,077** tons (see Appendix A) of materials recycled in FY15. If this amount of material had been sent to landfills it is estimated the State of Missouri would have paid at least **\$309,995** in waste disposal costs. It is possible to calculate this cost avoidance based on the average tipping fee charged to waste haulers in Missouri. Tipping fees are paid by waste haulers for each ton of trash disposed in Missouri's landfills. The average tipping fee in Missouri was \$38.38\* per ton in FY15.

The tipping fee is only one cost of doing business as a waste hauler. In addition to the tipping fee, a waste hauler includes labor and transportation costs in the actual amount charged to its customers. Therefore, utilizing the average tipping fee to calculate cost avoidance represents a conservative estimate.

**Over the past 10 years state employees have recycled nearly 80,000 tons of material saving the State of Missouri over \$3.2 million.**



## Office of Administration’s Division of Purchasing Reduces Waste



Hands-Free Operation

In FY15 the Office of Administration’s Division of Purchasing (OA/DOP) installed a water bottle refill station in its offices. The Missouri State Recycling Program is responsible for assisting state agencies to recycle and reduce waste and the refill station provided an opportunity to examine the benefits associated with this new equipment.

### Benefits of Water Bottle Refill Station

- Shortly after the refill station was installed the volume of beverage containers collected in OA/DOP’s recycling container was reduced by about half.
- The new refill station is more energy efficient than the water fountain it replaced. The old water fountain was over 30 years old. It is estimated that annual energy usage and energy costs will be 27% less for the new refill station.

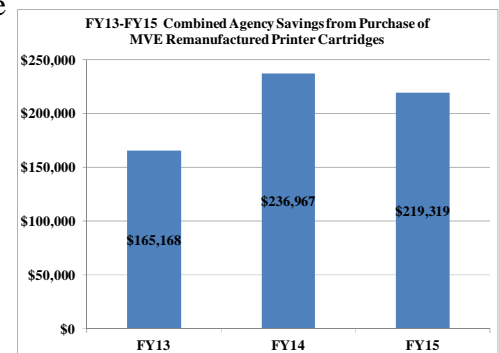


- The refill station is much more user friendly than the old water fountain and it is believed this will encourage employees to drink more water. Containers can be refilled without touching the refill station making it more sanitary than the old fountain.
- In the first six months of operation OA/DOP staff utilized the refill station 3,485 times (the fountain has a counter). If employees were to have consumed this many disposable bottles of water it would have generated 194 pounds of plastic waste. This many water bottles laid end-to-end would be nearly half a mile long. Even though these disposable plastic bottles would have been recycled in the offices of OA/DOP it is always better to reduce waste by reusing than it is to recycle materials.

## Remanufactured Toner Cartridges: State Agency Savings

From FY13 - FY15, state agencies have saved more than \$600,000 dollars by utilizing Missouri Vocational Enterprises’ (MVE) Printer Cartridge Remanufacturing Service. For more than 15 years, MVE has offered a toner cartridge remanufacturing service for state agencies. This service has provided state agencies an opportunity to realize significant savings and reduce waste by reusing toner cartridges.

The chart to the right illustrates the combined agency savings over the past three years for agencies that purchased remanufactured toner cartridges from MVE. Savings are estimated by calculating the difference in price between MVE toner cartridges and non-recycled toner cartridges available from the office supply contract.



## Surplus Property Reuse on the Rise

Widespread use of the Purchasing Committee (purchcomm) listserv in FY15 helped agencies to streamline the surplus property disposal process and save money. Essentially, the listserv is an email distribution list that allows agencies to communicate with other state agencies about property that is no longer needed. Purchcomm may also be used to find items that an agency needs to acquire.

Typically, the exchange of property through the listserv does not cost state agencies any money. For FY15, it is estimated state agencies saved over \$250,000 as a result of utilizing the purchcomm listserv. The savings measured in FY15 marks the most savings generated for state agencies in the past three years and is double what agencies saved in FY13.

### FY15 Top 5 Items Reused Through the Listserv

1. Printer Cartridges
2. Chairs
3. Desks
4. File Cabinets
5. 3-Ring Binders

A state employee must subscribe to the listserv in order to participate with the purchcomm listserv. Since State Surplus Property policies apply to distribution of property via the listserv, it is a good idea for employees who normally handle disposal of property to subscribe. The Purchcomm listserv subscription page is available at <http://lists.mo.gov/mailman/listinfo/purchcomm>.

## National Guard Conducts a Waste Audit

In FY15 the MO State Recycling Program assisted Missouri's National Guard with a waste audit of its cafeteria located at the Ike Skelton Training Site (ISTS). The audit was conducted over a period of five days where trash and recyclable material were measured by weight.

The purpose of this waste audit was to quantify waste (trash and recycling) generated; set baselines to compare with future waste audits; and identify ways to save money on waste disposal and divert materials from the landfill. Since the audit targeted the cafeteria waste stream, there was particular interest in the feasibility of recycling organics – food waste and other compostable materials such as paper towels.

The waste audit determined the following:

- 17.2% of the overall waste stream from the cafeteria was recycled. This is attributable to cardboard recycled from the kitchen and commingled cans and bottles recycled from the dining area.
- If the kitchen were to divert organics such as food waste (meat, bones, coffee grounds) and paper towels for composting (recycling) then it is projected the overall percentage of the waste stream that could be recycled would increase to 56.6%.
- The cafeteria at ISTS currently utilizes a 6-cubic yard trash dumpster that is picked up five times each week. This translates into thirty cubic yards of trash capacity each week. The audit indicated a more accurate weekly generation of trash at approximately 8 – 10 cubic yards. The cafeteria could save money by decreasing the size of its trash dumpster from 6-cubic yards to 2-cubic yards.








Containers for the Waste Sort

# FY15 Overview: Recycled Content Procurement

## State Agencies Close the Loop with Paper Procurement

In FY15 62% of agency paper purchases included recycled content. The State of Missouri spent \$1,347,417 on recycled “Fine Paper Products” in FY15. This translates into approximately 47,278 cases of recycled paper. A majority of this paper is printer/copier paper made with 30 percent post-consumer recycled paper. Purchasing this type of recycled paper versus virgin paper translates into the following estimated savings:

-  8,712 trees
-  4,072,344 gallons of water – 6 olympic sized swimming pools
-  750,860 pounds of CO2 equivalent – 68 fewer cars per year
-  272,608 pounds of solid waste – 10 less garbage trucks
-  3.9 billion Btu – enough energy to power 37 homes in Missouri for a year!

### FY15 Purchases of Recycled Paper Compared to Virgin Paper

Product Category	Recycled Paper Purchases	Virgin Paper Purchases	Recycled Paper Purchases as a % of Total Purchases in Product Category		
	FY15	FY15	FY15	FY14	FY13
Fine Paper Products (office, copy, fax)	\$1,347,417	\$1,758,117	43%	44%	37%
Course Paper Products (napkins, towels, tissues)	\$1,729,582	\$152,674	92%	94%	93%
Forms (continuous & snap out)	\$365,810	\$83	100%	97%	99%
Envelopes (Plain or Printed)	\$941,940	\$7,460	99%	98%	98%
Printing by contractors (40% of total charge is attributable to paper - figures appearing in this row represent paper cost only)	\$303,426	\$969,230	24%	22%	26%
<b>Overall Totals</b>	<b>\$4,688,175</b>	<b>\$2,887,564</b>	<b>62%</b>	<b>66%</b>	<b>60%</b>

RSMo 34.032 established attainment goals for state agencies to purchase certain percentages of products made from post-consumer recovered materials. Starting in 1991 the goal was set at 10% of paper purchases were to be manufactured from post-consumer material. The goal was increased to 60% for the year 2000 - the last year a goal was specified. Note: See Appendix B for additional information about paper purchases as well as non-paper recycled-content product purchases.

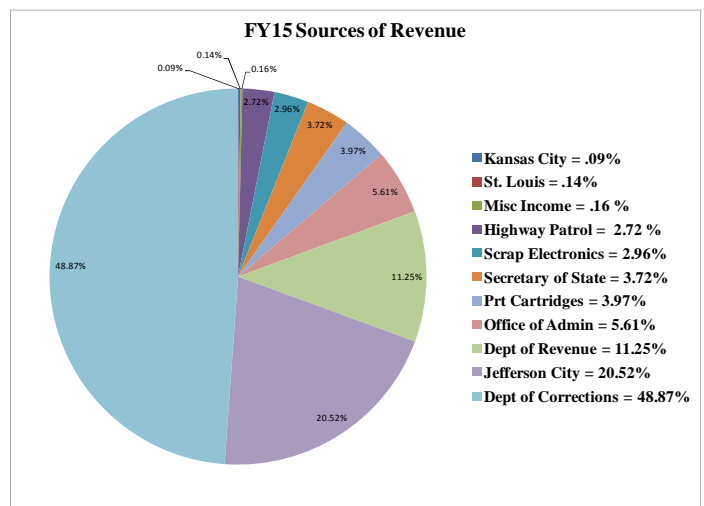
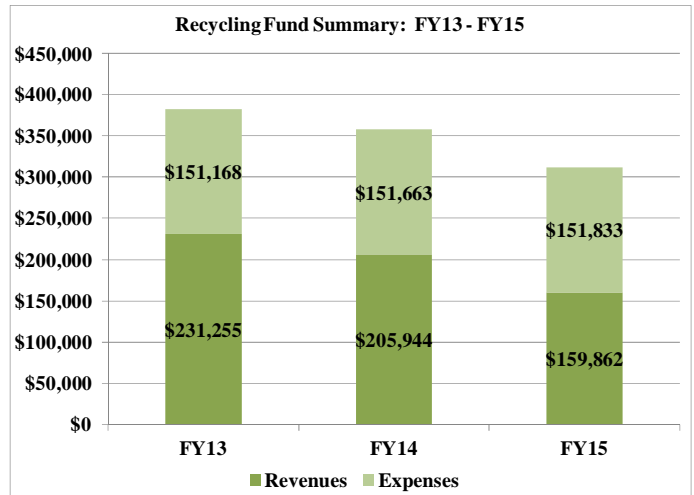
# FY15 Overview: Missouri's State Recycling Fund

Missouri's State Recycling Fund was established by RSMo 34.032 which states that "Proceeds from the sale of recycled materials may be used to offset costs of the recycling program."

Recycling revenues dropped 22 percent from FY14 to FY15. This revenue decline mirrors the national and international drops in the recyclable commodities markets.

In FY15, recycling funds helped to further the following recycling efforts throughout state government:

- Distribution of 12,000 plastic bags for can, bottle, and paper collection
- Purchase of over 300 recycling containers
- Distribution of 700 recycling labels and signs
- Purchase of a baler for Missouri Eastern Correctional Center (Pacific)
- Fluorescent lamp recycling fees
- Containers for the Department of Revenue's paper recycling program
- Baler supplies and maintenance
- Supplies for in-vessel composters located at Ozark Correctional Center and Northeast Correctional Center



Expenses listed in the bar chart at the top of this page include operations, salary, and fund transfers to the Heating Assistance Program.

The top three sources of revenue in FY15 were the Department of Corrections (**49 percent**), the Jefferson City recycling contract (**21 percent**) and Department of Revenue (**11 percent**). (see chart above) The Department of Corrections (DOC) spends a significant amount of recycling funds on consumable products such as plastic bags and baling wire for securing bales of recyclable materials. This is due to the high volume of materials that DOC generates and recycles.

## Contributions to the Heating Assistance Program (Utilicare)

Excess revenues from the sale of recyclable materials are transferred to the Heating Assistance Program managed by the Department of Social Services pursuant to RSMo 34.032. The Heating Assistance Program (HAP) - also known as Utilicare - provides financial assistance to low-income Missourians for heating their homes during winter months. The MSRP has transferred a total of **\$320,000** to the HAP since 2004.

As a result of state employee recycling efforts, the MSRP made a **\$30,000** contribution to the HAP in FY15. The \$30,000 transferred to the HAP in FY15 will help approximately 150 households in Missouri to pay their heating bills.



### III. Recycling Throughout Missouri

#### MoDOT Facility Repurposed Into a Mattress Recycling Business

A former MoDOT facility located in Kansas City has been repurposed into a mattress recycling facility. The City of Kansas City had become the owner of this property and through a



collaborative effort with Missouri Department of Natural Resources' Solid Waste Management Program, the Mid-America Regional Council's Solid Waste Management District, and the Environmental Improvement Energy Resources Authority's Market Development Program, the building was refurbished and now houses a recycling business.

Avenue of Life, a non-profit agency in Kansas City, manages the mattress recycling business. Avenue of Life works to create jobs for individuals who have barriers to employment and to ultimately break the cycle of poverty.



Avenue of Life opened their mattress recycling business in June, 2014 and in the first year of operation seven full time jobs were created and over 400 tons of mattresses and box springs were diverted from the landfill. Mattresses are received from residents, retail, hospitals, delivery companies, hotels and other businesses.

Mattresses are either reused or deconstructed. Deconstructed mattresses yield several materials including metal, wood, foam, polyester, and cotton. These scrap materials are baled and ultimately sold as raw materials to manufacturers of new products. Some of these baled materials are sold to Missouri-based manufacturers which strengthens the sustainability of their business model.



Bales of mattress foam and fabric awaiting transport to a manufacturing facility for use as raw materials

# University of Missouri - Kansas City Places 2nd in National Recycling Competition



After claiming 1st place in 2013 and for the second year in a row, the University of Missouri - Kansas City (UMKC) was beat by a one-building college in Seattle - placing 2nd in the Grand Champion contest for the 2015 national RecycleMania competition. Despite the 2nd place finish UMKC improved its recycling rate from 81% (2014) to 85% (2015). This means that only 15% of the waste generated at UMKC was sent to the landfill during the competition.

RecycleMania is a competition among colleges and universities in the United States that provides schools with a fun, proactive opportunity to increase awareness about waste prevention and recycling on their campus. Over a 10-week period, schools compete in different contests to see which institution can collect the largest amount of recyclables per capita; the largest amount of total recyclables; least amount of trash per capita; or have the highest recycling rate.

Other notable achievements for Missouri schools in 2015 include:

- After finishing in 31st place in 2014, Washington University - St. Louis leaped to a 9th place finish in the Per Capita Classic in 2015.
- University of Missouri - Columbia jumped from 18th place in 2014 to 8th place in 2015 in the Paper Competition.
- Missouri University of Science & Technology improved its run in the Cardboard Competition from 28th place in 2014 to 24th place in 2015.

## Missouri Schools Placing in the Top 50 for RecycleMania Competitions

**Grand Champion Competition** (232 participating)  
**University of Missouri - Kansas City (2nd)**

**Per Capita Classic** (311 participating)  
**Washington University - St. Louis (9th)**

**Waste Minimization** (145 participating)  
**University of Missouri - Kansas City (14th)**

**Gorilla Competition** (311 participating)  
**Washington University - St. Louis (11th)**  
**University of Missouri - Columbia (17th)**

**Bottles & Cans Competition** (130 participating)  
**Northwest Missouri State University (44th)**

**Cardboard Competition** (152 participating)  
**Missouri University of Science & Technology (24th)**  
**University of Missouri - Columbia (36th)**  
**Missouri State University (40th)**

**Paper Competition** (130 participating)  
**University of Missouri - Columbia (8th)**  
**Missouri University of Science & Technology (25th)**

In addition to the schools placing in the Top 50, the following Missouri schools participated in the 2015 national competition:

**Maryville University of Saint Louis**  
**Saint Louis University - Main Campus**  
**University of Missouri - St. Louis**

The State Recycling Program applauds Missouri's colleges and universities for their participation in the national RecycleMania competition. ([www.recyclemaniacs.org](http://www.recyclemaniacs.org))

# Market Development Program Helps to Close the Loop in Missouri

## Market Development Program Helps Recycling Expand in Missouri

The Environmental Improvement and Energy Resources Authority (EIERA), the Missouri Department of Natural Resources and the Missouri Department of Economic Development work together on the Missouri Market Development Program.

The Missouri Market Development Program provides financial assistance targeted toward developing and expanding manufacturing capacity in the state. The program assists with the purchase of equipment needed to enable manufacturing facilities to use recovered materials. Direct financial assistance to Missouri businesses, governments and organizations is the foundation of the Market Development Program's efforts to meet the directives set in RSMo 260.005.

### How does the program benefit Missouri?

Since 1999, the program has awarded \$7.8 million to 141 Missouri businesses - creating 635 new jobs and leveraging more than \$53 million in additional investment. Additionally, 1.26 million tons of waste is diverted from landfills annually, resulting in more than \$46 million in avoided disposal costs for Missouri businesses each year.

Market Development Program projects are located statewide, including urban and rural areas. The Program works on the “demand pull” side by funding only projects that involve the manufacture of new products from recovered materials or the processing of materials so that others can use them in manufacturing. Program projects involve a wide variety of materials, including plastics, wood, glass, textiles, food waste, construction and demolition waste and electronics, many of which are not collected in traditional recycling operations.

“The Missouri Market Development Program is interested in projects that expand the role of recycling in a sustainable economy for Missouri, contribute to a quality environment and reduce reliance on landfills,” said Kristin Allan Tipton, EIERA development director. “Projects must be located in Missouri and be based on a technology that has been demonstrated beyond the research stage.”

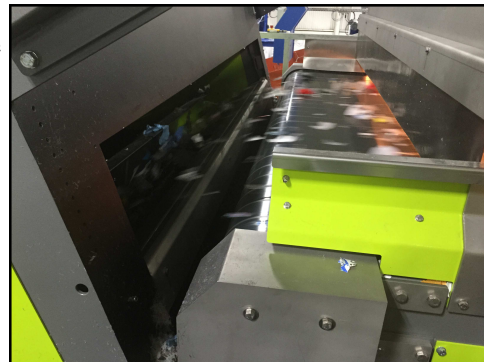
### Missouri Recycled Products Directory

This is a resource for anyone looking to find Missouri-based businesses that manufacture or distribute recycled-content products. The new interactive directory is located at <http://missourirecycledproducts.com/>

### For additional information

Missouri Market Development Program staff are available to answer questions and provide assistance. Call 573-526-5555 or e-mail [eiera@eiera.mo.gov](mailto:eiera@eiera.mo.gov).

## Market Development Program Projects



**QRS, Inc., St. Louis, diverts 2,080 tons from the waste stream annually and created 30 full-time positions with assistance from the Missouri Market Development Program. The program funded an optical sorter and supporting equipment that helped recover recyclable and plastic materials from a materials recovery facility and a plastics reclamation facility.**



**The Missouri Market Development Program helped Bluebird Composting, Fulton, purchase several pieces of equipment that allowed owner Rana Bains, pictured, to expand the company's composting operations. In doing so, Bluebird diverts 1,200 tons annually from the waste stream and created four full-time and two part-time jobs.**



## IV. Recycling Resources

### **Missouri State Recycling Program**

#### **Office of Administration**

#### **Division of General Services**

Internet: <http://oa.mo.gov/general-services/missouri-state-recycling-program>

Email: [recycling@oa.mo.gov](mailto:recycling@oa.mo.gov)

Phone: 573-751-3384

The Missouri State Recycling Program (MSRP) works with state agencies to increase purchases of recycled content products, reduce their waste stream and increase collection of materials for recycling. The MSRP web page is a good resource for state contracts that offer recycled content products as well as recycling services.

### **Environmental Improvement and Energy Resources Authority / Market Development Program**

#### **Missouri Department of Natural Resources**

Internet: <http://eiera.mo.gov/mo-market-dev-program/>

Email: [eiera@dnr.mo.gov](mailto:eiera@dnr.mo.gov)

Phone: 573-751-4919

The **Missouri Recycled Products Directory** is published by the Market Development Program. An excellent resource for finding Missouri based businesses that manufacture or distribute recycled-content products. The directory is available online at <http://missourirecycledproducts.com/>

### **Solid Waste Management Program**

#### **Missouri Department of Natural Resources**

Internet: <http://www.dnr.mo.gov/env/swmp/index.html>

Email: [swmp@dnr.mo.gov](mailto:swmp@dnr.mo.gov)

Phone: 800-361-4827 or 573-751-5401

The Solid Waste Management Program (SWMP) works with citizens, businesses, industry, and government to continue increasing material reuse and recycling. The SWMP web page is an excellent resource for information dealing with all aspects of solid waste management in Missouri.

### **Missouri Vocational Enterprises (MVE)**

#### **Missouri Department of Corrections**

Internet: <http://www.doc.mo.gov/mve>

Phone: 800-392-8486 or 573-751-6663

The Department of Corrections vocational training program offers the following products and services that meet "buy recycled" criteria. MVE products and services are only available to state agencies and other tax-supported entities.

#### **MVE Recycling/Remanufacturing/ Refurbishing Services**

- Tire Recycling Service  
573-635-3825
- Toner Cartridge Refill Service  
573-751-3224 ext. 1260
- Furniture & Office Panel (cubicle) Refurbishing  
573-751-6663 or 800-392-8486

#### **MVE Recycled-Content Products**

- Cardboard boxes: 35 percent post-consumer content
- Plastic bags: 30 percent recycled material
- Metal products: 28 percent post-consumer content
- Toilet paper: 100 percent recycled material
- Envelopes: 30 percent post-consumer content



## V. Appendices

### **Appendix A: Department reports of materials recycled**

- ∞ Pounds
- ∞ Number of Items
- ∞ Gallons

### **Appendix B: Department reports of recycled-content product procurement**

- ∞ Non-Paper Recycled-Content Products Procured
- ∞ Recycled-Content Paper Products Procured

## Appendix A: FY15 Department Reports of Materials Recycled

Number of Pounds Recycled	Agriculture	Attorney General	State Treasurer	Conservation	Corrections	Elementary & Secondary Educ.	Governor's Office	Health & Senior Services	Insurance, Finan. Inst., Prof. Reg.	Labor & Industrial	Mental Health	Natural Resources	Northwest Missouri State	Office of Administration	Public Safety	Revenue	Secretary of State	Senate	Social Services	State Courts Administrator	Transportation	Totals by Material	
Aluminum	2,540			340	71,890			418				5,973		5,006	1,050							76,000	182,240
	C	C	C	C	C	C	C	C	C	C	472	C		C	C	C	C	C	C	C	C	C	
Ballasts				91							180			718								787	1,776
Batteries-Non Rechargeable				189	1,006						1,220	383		43								62	2,903
Batteries-Rechargeable				451	12,298	32		58			198	443	38	7,071	54,318				24			50	74,981
Cardboard	7,200			1,700	2,331,258						101,910	21,155			173,380	37,714					865	10,800	3,244,236
	C	C	C	C	C	C	C	C	C	C	C	C		C	C	C	C	C	C	C	C	C	
Commingled Materials*					315,165							69,258											389,173
Electronic Scrap		2,509		4	7,380		315	1,467		1,764	2,361	1,294		7,484	10,712	3,081		110	3,025	2,418	300	414,095	
Food-Yard Waste				10	555,030						800	7,080			100								563,020
Glass	500			1,030								10,592											12,122
Magazines & Catalogs				200	5,715						783	1,964			30								8,692
Mixed Office Paper	9,250		2,705	10,390	82,537	1,584			828		229,838	27,829			5,126	497,721	379,020		31,855	2,872	27,600	4,186,646	
	C	C	C	C	C	C	C	C	C	C	C	C		C	C	C	C	C	C	C	C		C
Newsprint				200	1,825						259	2,236											4,520
Plastic	3,500			234	31,596			1,129				6,278		575	200		16,661						74,072
	C	C	C	C	C	C	C	C	C	C	489	C		C	C	C	C	C	C	C	C	C	
Rubber, Scrap Tires	3,000			2,140	7,023							9,355		19,710	144,320							441,400	626,948
Scrap Metal	150,740			23,354	607,228			10,020			4,475	136,757		72,737	147,700	67,451						3,817,600	5,038,062
Telephone Books				30							300	1,663											1,993
Textiles														85									85
Tin / Steel Cans				20	1,293,620							154			100								1,298,964
	C	C	C	C	C	C	C	C	C	C	600	C		C	C	C	C	C	C	C	C	C	
<b>Totals Reported by Agency</b>	176,730	2,509	2,705	40,383	5,323,571	1,616	315	13,092	828	1,764	343,885	302,414	38	113,429	537,036	605,967	395,681	110	35,769	5,290	4,374,599		
<b>Total Pounds Recycled in FY15:</b>																					<b>16,154,528</b>		
																					<b>(8077 tons)</b>		

**Note on Boxes with C's:** A "C" in a box on this table indicates an agency recycled the designated item by utilizing the Jefferson City (JC) recycling services contract. Materials collected via the JC contract include **Aluminum, Cardboard, Mixed Office Paper, Plastic,** and **Steel (tin) Cans**. A box that has a number over a "C" indicates the agency reported material that was recycled statewide, but not reported in the JC contract figures. For example, statewide Public Safety reported 1,050 pounds of aluminum recycled and Public Safety offices in JC utilized the JC Recycling Contract to recycle aluminum.

**Note on "Totals by Material":** This column includes collection totals as reported by the recycling contractor or service provider for the following materials: **Aluminum, Cardboard, Commingled Materials, Electronic Scrap, Mixed Office Paper, Plastic,** and **Steel Cans**. These figures are summarized in a table on p. 27 of this report. Agencies that utilized a recycling contract, but do not appear in this table include: **Economic Development, Higher Education, Environmental Improvement Energy Resources Authority, Lottery, Tax Commission, MCHCP, MOSERS, State Auditor, Supreme Court,** and **House of Representatives**. Amounts of materials recycled by these agencies are included in the "Totals by Materials" column. (see explanation under "contractual reporting" on top of p. 27)

\*The contents of "Commingled Materials" will vary from one location to the next. Typically "commingled materials" will include materials such as cardboard, paper, plastics, aluminum cans, books, glass and steel cans.

## Appendix A: FY15 Department Reports of Materials Recycled

**Summary Information for Table on Page 26 for Contractual Reporting and Other Recycling Services**  
 Total pounds recycled by agencies utilizing the Jefferson City, St. Louis, Kansas City, and Onsite Document Destruction recycling contracts are summarized in the table to the right. These figures are reported as cumulative totals. Due to contract reporting, data is reported by building and it is not feasible to separate data by agency where there are multiple agencies in the same building.

FY15 Total Pounds Recycled via Contracts	Jefferson City	St. Louis	Kansas City	Onsite Document Destruction
	Mixed Office Paper	1,082,058	11,997	12,288
Cardboard	533,917	9,430	14,907	
Commingled		4,750		
Aluminum	18,551			
Plastic	13,410			
Steel Cans	4,470			

FY15 Total Pounds Recycled via Other Agreements	Electronic Scrap	369,871
		Carpet Tiles

Total pounds recycled by agencies utilizing other recycling service agreements is summarized in the table to the left.

### Number of Items and Gallons Recycled Table

Departments Reporting	Number of Items Recycled							Number of Gallons Recycled			
	Books, Bound Publications	Cell Phones	Fluorescent Lamps	Incandescent Lamps	Printer Cartridges	Fuel/Oil Filters	Pallets	Anti-freeze	Oil, Cooking	Oil, Motor	Paint
Agriculture									925	300	100
Conservation	30	38	1,011		35					1,050	
Corrections		285	2,696		2,267		23,357	385	1,470	4,374	
Economic Development					3						
Elementary & Secondary Education		5									
Health & Senior Services		19			53						
Insurance, Financial Inst., Prof. Reg.					2						
Mental Health	40	6			982		382	15	6,496	410	410
Natural Resources			412		786	77	165	16,967		1,088	4
Office of Administration			27,623		5		250			2,537	
Public Safety	200		5,250	120	3,104	12	800	293	450	14,149	
Revenue					441						
Social Services		8			412						
Transportation			1,872	432			20	38,243		73,188	
Treasurer's Office					98						
<b>TOTALS</b>	<b>270</b>	<b>361</b>	<b>38,864</b>	<b>552</b>	<b>10,203</b>	<b>89</b>	<b>24,974</b>	<b>55,903</b>	<b>9,341</b>	<b>97,096</b>	<b>514</b>

**Note on Total Printer Cartridges:** 2,015 printer cartridges were recycled by employees using a statewide service for this item and are included in the TOTALS amount shown in this table. **Note on Agency-Specific Printer Cartridges:** Figures appearing for individual agencies may not be an accurate reflection of the number of printer cartridges recycled. In some buildings agencies utilize a centralized recycling drop-off for cartridges and it is not feasible to separate agency data once recycled. See p.12 "Printer Cartridge Recycling" for additional explanation.

## Appendix B: FY15 Department Reports for Recycled Content Product Procurement

Non-Paper Recycled Content Procurement	Agriculture	Conservation	Corrections	Economic Development	Elementary & Secondary Education	Health & Senior Services	House of Representatives	Insurance, Financial Inst., Prof. Reg.	Mental Health	Natural Resources	Office of Administration	Public Safety	Revenue	Secretary of State	Social Services	Treasurer's Office	Category Totals
Batteries-Rechargeable			\$617						\$697								\$1,314
Carpet / Construction Materials	\$19	\$13,627	\$2,848		\$51,372		\$8,372			\$3,799	\$66,931	\$5,636			\$23,102		\$532,102
Cardboard Boxes			\$13,835	\$151	\$1,636	\$123		\$412	\$628		\$80	\$2,775		\$1,281		\$618	\$125,949
Janitorial Supplies			\$56,702		\$15,418	\$11				\$4,942	\$3,820	\$11,590					\$596,348
Metal Products			\$11,551	\$26	\$4,649			\$3,540		\$33,690	\$15,748	\$75,563	\$3,924,212				\$4,337,065
Office Supplies	\$6,420		\$49,021							\$6,478	\$9,608	\$4,948				\$6,603	\$1,628,932
Park   Playground Supplies			\$49							\$8,909							\$32,048
Printer Cartridges, Remanufactured			\$196,188	\$325		\$7,099		\$180		\$15,121	\$315	\$3,790	\$65,788		\$9,638		\$304,469
Promotional Products										\$1,513							\$1,513
Remanufactured Furniture			\$159														\$188,543
Refurbished Signs												\$5,000					\$5,000
Vehicle Maintenance Supplies			\$1,811						\$120		\$20,240						\$22,171
<b>Agency Totals</b>	<b>\$6,439</b>	<b>\$13,627</b>	<b>\$332,781</b>	<b>\$502</b>	<b>\$73,075</b>	<b>\$7,233</b>	<b>\$8,372</b>	<b>\$4,132</b>	<b>\$1,445</b>	<b>\$74,452</b>	<b>\$116,741</b>	<b>\$109,302</b>	<b>\$3,990,000</b>	<b>\$1,281</b>	<b>\$32,740</b>	<b>\$7,221</b>	

**Total Dollars Spent on Recycled-Content Products in FY15 = \$7,775,454**

**Notes:** When adding figures in each row the following needs to be considered. **Carpet** contractors reported agency purchases of \$258,563. **Construction Materials** contractors reported purchases of \$97,833. **Office Supplies** contractors reported purchases of \$1,561,300. MVE provided procurement figures for **Cardboard Boxes** (\$104,410); **Janitorial Supplies**-plastic bags (\$503,865); **Metal Products** (\$268,086) **Park & Playground Supplies** (\$23,090); and **Remanufactured Furniture** (\$188,384). The total for **Remanufactured Printer Cartridges** includes \$6025 of purchases that couldn't be attributed to a particular department. When adding the figures in each row -- these amounts need to be included in the sum. For additional information on recycled-content products and services from MO Vocational Enterprises see p. 24 of this report.



## Appendix B: FY15 Department Reports of Recycled and Virgin Paper Purchases

This table provides detail for the summary chart appearing on page 19 of this report.

GRAY HIGHLIGHT = VIRGIN  
BLUE HIGHLIGHT = RECYCLED

FY15 Department Detail of Recycled & Virgin Paper Purchases	Fine Paper Products (printer / copier paper)	Course Paper Products (toilet paper / paper towels)	Forms - Continuous & Snap Out (high speed printers)	Envelopes	Printing by Contractors
Judiciary (Supreme Court & OSCA)	\$3,435				
		\$4,009			
SOS (231)	\$2,318				\$145,600
	\$6,935				
Auditor (251)	\$2,022				
STO (272)	\$2,882	\$295			\$10,626
	\$8,159	\$43		\$6,944	
AGO (282)	\$28,602				
OA (300)	\$477,862	\$40			\$1,387,248
	\$39,355	\$10	\$364,610		
MDA (350)	\$9,493	\$26,215	\$83	\$155	\$8,815
	\$247	\$164			
DIFP (375)	\$3,042				
	\$5,776			\$2,195	
MDC (400)	\$12,248				
	\$1,183,022	\$3,000			
DED (419)	\$14,137				
					\$115,900
DESE (500)	\$51,899	\$236			
	\$24,187	\$22,469		\$66,733	\$10,184
DHE (555)	\$2,129				
DHSS (580)	\$43,111	\$2,360			
		\$188		\$55	\$100,514
MoDOT (605)	\$8,051	\$1,568			\$11,246
DOLIR (625)	\$71,319				
DMH (650)	\$59,374				\$5,138
	\$10,515	\$96,704			
DNR (780)	\$4,859			\$1,747	
	\$25,986	\$21,344		\$6,798	\$140,977
DPS (812)	\$126,289	\$21,735		\$102	\$13,253
	\$16,942	\$47,055	\$1,200	\$5,824	\$230,195
DOR (860)	\$60,678				\$309,607
		\$2,091			
DSS (886)	\$330,652			\$5,454	\$20,818
		\$28,021		\$244,124	
DOC (931)	\$443,715	\$100,226		\$2	\$4,506
	\$26,292	\$1,454,643		\$249,613	\$160,794