

MISSOURI

2020 RECYCLING REPORT



CELEBRATING 30 YEARS



30 Years of Recycling History

Missouri Policy on Resource Recovery is announced by Governor Ashcroft. Discussions of how the State Recycling Program will be structured begin.



1993 →

1st Annual Recycling Award is presented to the Springfield State Office Building.

2001 →

Office of Administration (OA) and Department of Natural Resources (DNR) establish a memorandum of understanding where DNR will fund the program's E & E budget and coordinator position.

2009 →

State Recycling becomes financially self-sustaining. The program is funded entirely from the sale of scrap material. This ends a seven-year memorandum of understanding between OA & DNR.

2012 →

After being a part of the Division of Purchasing & Materials Management for 25 years, State Recycling moves to the Division of General Services.

2019 →

← **1989**

Interdepartmental Committee on Waste Reduction and Resource Recovery becomes known as the Missouri Interagency Recycling Committee.

Recycling Coordinator becomes a full time position.

← **1994**

Truman Building gets a cardboard baler. 2001 estimate of weekly cardboard generated was 200 pounds. In 2020 the Truman Building generated 1000 pounds of cardboard each week.

← **2003**

State Recycling coordinates 1st annual Zero Waste Challenge as a part of DNR's Earth Day event.

← **2010**

Record year for the amount of revenues generated from recycling with more than \$300,000 deposited into the state recycling fund.

← **2015**

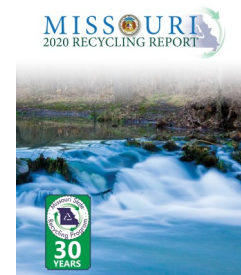
More than \$500,000 has been transferred to the Heating Assistance Program since the 1st transfer was made in 1995.

State Recycling collaborates with Surplus Property to develop MOREuse - a tool to facilitate reuse of state property.

State of Missouri
Office of Administration
Division of General Services
301 W. High Street, P.O. Box 809
Jefferson City, MO 65102-0809

oa.mo.gov/general-services/missouri-state-recycling-program

RIGHT: The cover of the FY20 Annual Recycling Report features Montauk State Park in Salem, Missouri.



FROM THE DIRECTOR



A Word From General Services Director Cindy Dixon

As we celebrate the 30th anniversary of the Missouri State Recycling Program, I am honored to present our annual report for fiscal year 2020.

In accordance with RSMo 34.031, the Office of Administration is submitting our annual report to summarize state government's accomplishments in the areas of recycling, waste reduction, and recycled content product procurement.

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, we continue to develop 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 FY20 include:

- **8,715,273** pounds of materials recycled
- **130 billion BTUs** of energy saved from total pounds of material recycled. This is equivalent to the annual energy consumption of **1,415** homes
- **\$11,327,359** of recycled-content products purchased
- **\$66,845** in revenue generated for the recycling fund
- **\$295,952** in waste disposal costs avoided



Cindy Dixon, Director, Division of General Services

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



Questions or comments regarding this report may be directed to the State Recycling Manager.

Robert Didriksen | 573.751.3384 | Robert.Didriksen@oa.mo.gov

MSRP ORGANIZATION



What is the Missouri State Recycling Program (MSRP)?

The Missouri State Recycling Program (MSRP) partners with state employees and agencies to facilitate fiscally and environmentally responsible strategies for reuse and recycling of state property. In 1989, the MSRP was established when legislation added sections 34.031 and 34.032 to Chapter 34 of the Missouri Revised Statutes.

Who is the MSRP?

- The Recycling Manager provides planning and oversight to state government recycling initiatives.
- The MSRP communications team maintains a list of 1,000 state team members who receive monthly emails about recycling in state government. This group of recycling champions is very engaged as evidenced by an email open rate above 50 percent. This is more than twice the industry average.
- The Missouri Interagency Recycling Committee (MIRC) serves an important purpose by providing input on recycling initiatives and communicating with state employees about various recycling programs. The recycling committee is composed of representatives from various state departments (executive, judicial, and legislative).
- State employees are key to the success of the MSRP. The efforts of thousands of state team members each day result in significant, measurable results. State team members who recycle are a part of the Missouri State Recycling Program.



Missouri Interagency Recycling Committee | A full list of MIRC members is available on the MSRP website.

RECYCLING CHAMPIONS



Recognizing Those Who Go Above and Beyond

The Missouri State Recycling Program (MSRP) annually recognizes state agencies and employees for excellence in recycling. The purpose of this award is to recognize those who have made outstanding contributions in the areas of waste reduction and recycling.

Team Champions

The Missouri Department of Revenue (DOR) recycles at least a truckload of paper and cardboard each month! There is also a noticeable recycling culture within DOR. Recycling containers throughout offices are clearly labeled and staff are kept informed about the recycling rules. Different operations within DOR make the extra effort to recycle unusual things such as metal banding from license plate shipments or reuse paper clips from incoming mail. For many years now the DOR has been a key MSRP partner.



Missouri Department of Revenue Team Award

(L-R) Lynn Kempker, Ivan Soler, Rob Didriksen, Brenda Davis, and Vickie Akin.

Individual Champion

For more than 20 years, Nancy Tennison has provided leadership with recycling for the Missouri State Treasurer's Office (STO). As the Interagency Recycling Committee representative for the STO, Nancy



Nancy Tennison, Treasurer's Office Individual Award

(L-R) Sarah Wilhoit, Brad Spraggs, Scott Harper, Ryan Ferrell, Nancy Tennison, Lisa Hopkins, Mike Price, and Rob Didriksen.

always ensures staff in the Treasurer's Office are informed about what can be recycled. Her recycling leadership isn't limited to contracted recycling services, but also includes making sure STO offices are setup for plastic bag recycling and other unusual items such as CDs and microfilm. Nancy has consistently supported the mission of the Missouri State Recycling Program for many years now.

STATE AGENCY RECYCLING



TOP THREE MATERIALS RECYCLED (tons)

PAPER
1,492

METAL
1,033

CARDBOARD
456

TOP THREE DEPARTMENTS RECYCLING (pounds)

TRANSPORTATION
2,158,285

CORRECTIONS
1,702,427

NATURAL RESOURCES
642,476

Financial Stats

\$11,327,359: Total spent by state agencies on products made from recycled materials.

\$796,845: Amount state agencies spent on recycled office products.

\$295,952: Avoided cost of waste disposal due to recycling.

\$246,000: Avoided cost of office supplies and equipment exchanged through MOREuse.

4,342: Number of items exchanged through MOREuse.

Environmental Savings

(from Recycling 8,715,273 Pounds of Various Materials)

Green House Gas Reductions Equivalent to ...

Annual emissions from **2,979** passenger vehicles

1,578,591 gallons of gasoline not used

584,539 cylinders of propane for home BBQs not used

Energy Savings Equivalent to ...

Annual energy consumption of **1,415** homes

22,310 barrels of oil

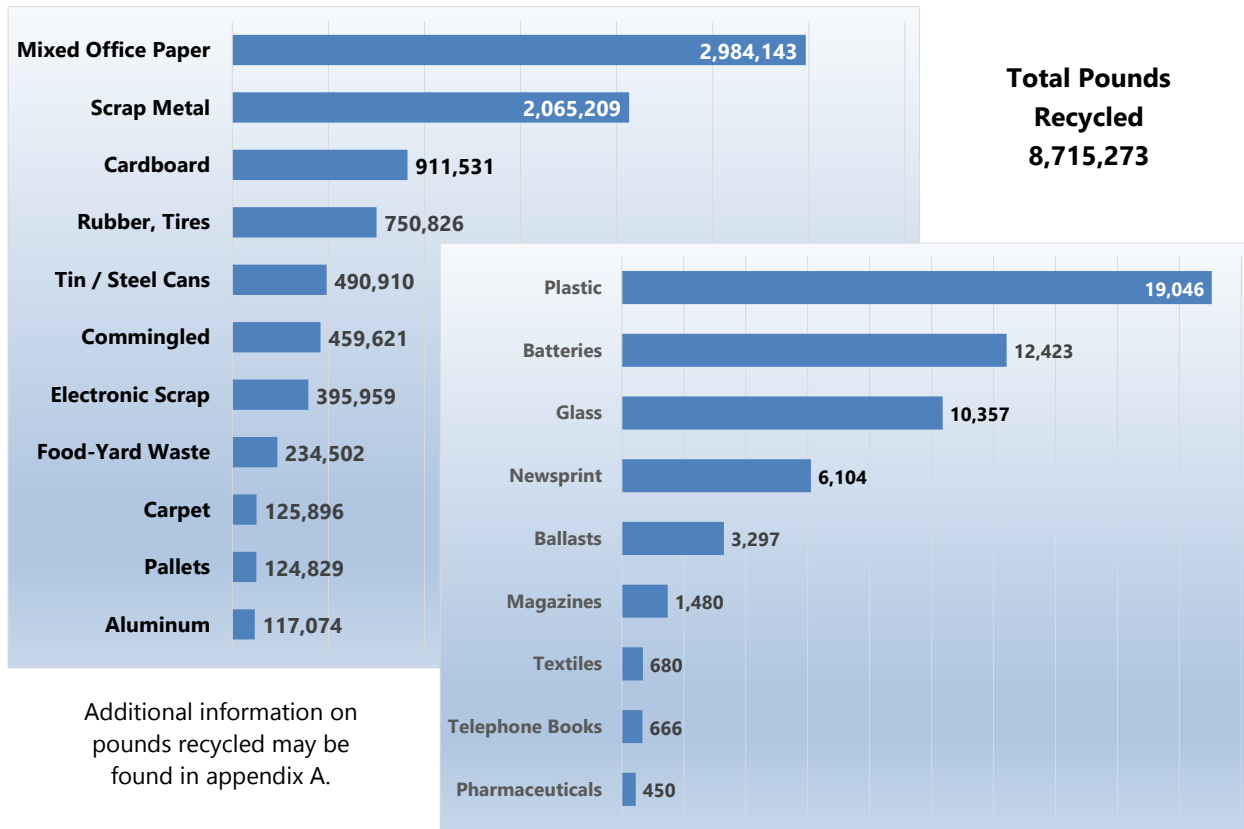
1,076,107 gallons of gasoline

Environmental Savings were calculated using the Environmental Protection Agency's Waste Reduction Model (WARM). For additional information please see <https://www.epa.gov/warm>.

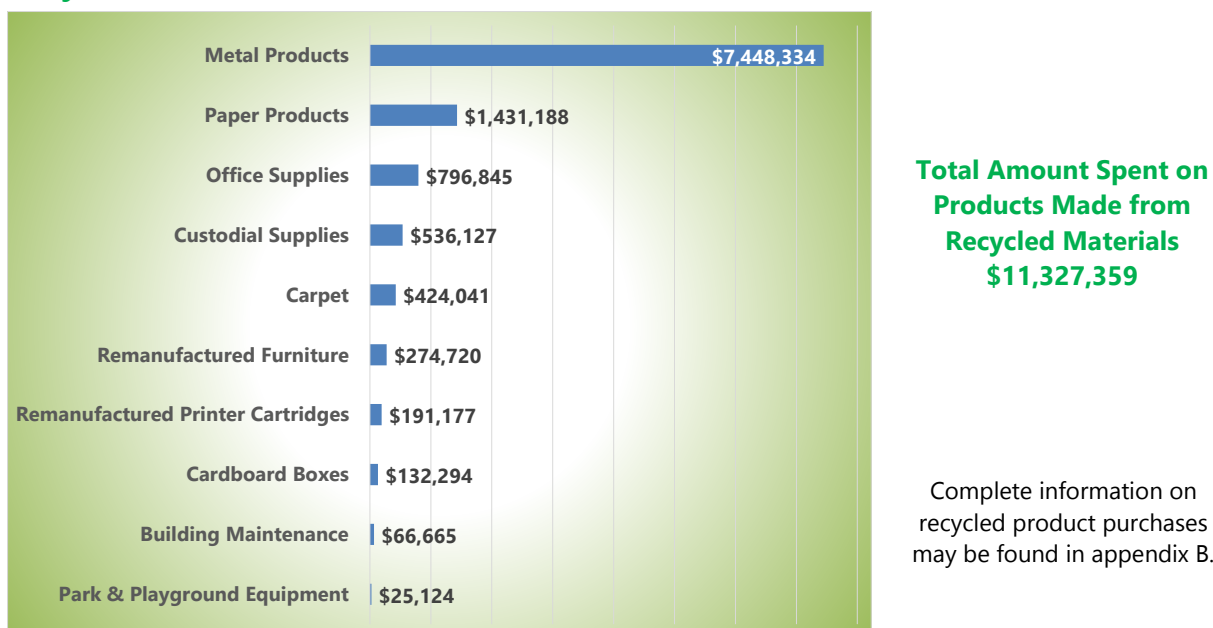
RECYCLING & PROCUREMENT



Pounds Recycled in FY20



Recycled Product Procurement



AGENCY ACCOMPLISHMENTS



Christmas Light Recycling

After seeing how popular a Christmas light recycling collection was in their own offices, the Department of Natural Resources' Waste Management Program (WMP) decided to promote the idea with other agencies in FY20. This effort was led by WMP and resulted in more than 420 pounds of lights being recycled from Health & Senior Services, Mental Health, and Natural Resource offices on East Elm Street and the Lewis and Clark Building. As one of the organizers said, "That means 420 pounds of lights that will be processed to collect and reuse the metals in them instead of decomposing in a landfill."



RIGHT: Christmas lights waiting to be picked up at DHSS.



E-waste Recycling Services

In FY20, ITSD continued to allow all agencies to utilize the e-waste contract for proper disposal of non-IT equipment. This resulted in the recycling of more than 100,000 pounds of non-IT equipment, such as microwaves, refrigerators, and various other electronics found in an office environment.

In addition, ITSD recycled more than 250,000 pounds of IT equipment through the e-waste contract in FY20.

LEFT: Pallets of e-waste at Truman Building.

Capitol Recycling

Each year thousands of pounds of paper, cardboard, and cans & bottles are recycled at the Capitol. Each November, an event known as the Senate Bill Room Clean Out generates around 10,000 pounds of paper that is recycled. In addition, paper generated by the end-of-session tradition of throwing bills into the air is also recycled.



RIGHT: End of Legislative Session for the House of Representatives.



New Baler for Algoa Correctional Center

State Recycling partnered with Algoa Correctional Center (ACC) in FY20 to secure grant funding to improve recycling operations at the prison. Grant funds were used to construct a building to house balers and to acquire more gravel for the recycling area. State Recycling was able to provide in-kind funding by purchasing a new baler. ACC recycled 70 tons of cardboard and more than 100 tons of tin cans in FY20.

LEFT: New baler being installed at Algoa Correctional Center.

REDUCTION & RE-USE



Nurturing Missouri's Reuse Culture

At the start of FY20, a new online tool to facilitate reuse of state property was launched. **MOREuse** was developed as a collaboration between ITSD, Surplus Property, and State Recycling. This program makes it simple and convenient for state agencies to exchange everything from paper clips to desks, all at no cost. At the end of FY20, there were 466 state team members using MOREuse. The MOREuse community is made up of givers (agencies with unneeded property) and takers (agencies that need the property).

Top 3 Giver Agencies

Estimated Cost of Items Given to Other Agencies

1. House of Representatives: \$64,021
2. Office of Administration : \$59,779
3. Department of Corrections: \$18,116

Top 3 Taker Agencies

Estimated Costs Avoided

1. Department of Corrections: \$196,677
2. Office of Administration: \$22,914
3. Department of Health & Senior Services: \$6,693

Top Items Exchanged on MOREuse

1. Paper clips: hundreds of pounds
2. File folders: 3,470
3. Rolling chairs: 204
4. 3-ring binders: 170



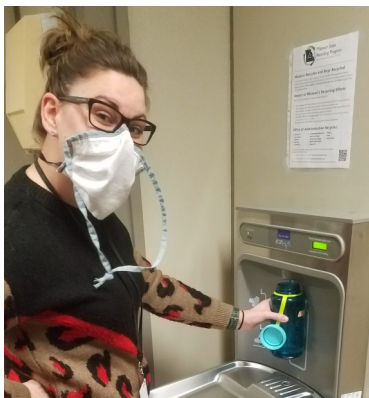
ABOVE: Leah Strid and Kelly Hinkle score paper clips from the Dept. of Revenue.

Box Reuse

Over the past 20 years, the **State Printing Center & State Data Center** have developed a "closed loop", box reuse program where printed letters from the Data Center are shipped to SPC for processing and then returned to SDC for reuse. On average over 100 boxes are returned to the SDC for reuse each week, saving the state more than \$5,200 each year.



RIGHT: Empty boxes being returned to SDC for reuse.



Water Bottle Refill Stations

Numerous state agencies have installed water bottle refill stations in offices. Many of these have counters to show how many times a cup or bottle was filled up. In FY20, "counters" in the divisions of Purchasing and General Services showed a combined total of 14,422, representing a reduction of an equivalent number of single-use water bottles.

LEFT: Jessica Johnsen using a water bottle station at the Truman Building.

STATE RECYCLING FUND

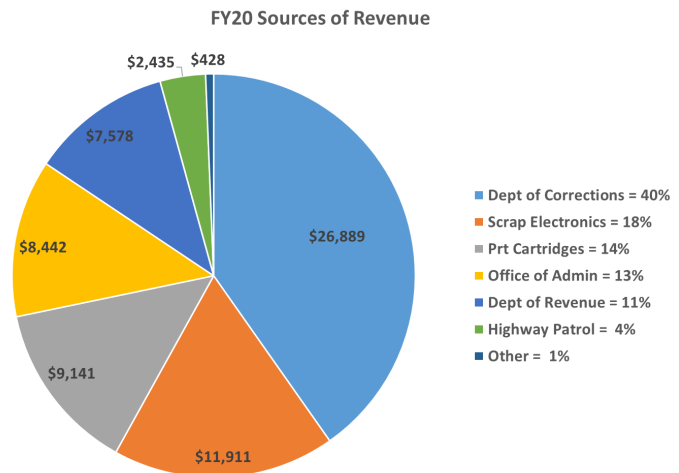


Missouri’s State Recycling Fund was established by RSMo 34.032 and states that “Proceeds from the sale of recycled materials may be used to offset costs of the recycling program.”

FY20 was a very challenging year financially with continued low scrap commodities markets, escalating hauling costs, and lower generation of materials collected by state agencies due to COVID-19. As a result, there was a reduction in the number of locations in Jefferson City and St. Louis where State Recycling covered the recycling costs. Fortunately, several agencies decided to continue recycling by paying for recycling services out of their own budget.

In FY20, recycling funds helped to further the following recycling efforts throughout state government:

- 40% of State Recycling’s budget was spent to haul recyclable materials. Three years ago (FY17), no funds were spent on hauling services.
- Distributed more than 5,500 plastic bags for can, bottle, and paper collection.
- Distributed more than 150 recycling containers.
- Distributed nearly 100 recycling labels and signs. Signs can now be downloaded from the website and so actual sign distribution is higher.
- Baler purchased for Algoa Correctional Center as part of a grant to improve recycling operations.
- Facilitated proper disposal of fluorescent lamp and PCB ballasts.
- Purchased baling supplies for a dozen balers installed throughout state government operations.
- Performed maintenance for an in-vessel composter located at Ozark Correctional Center.

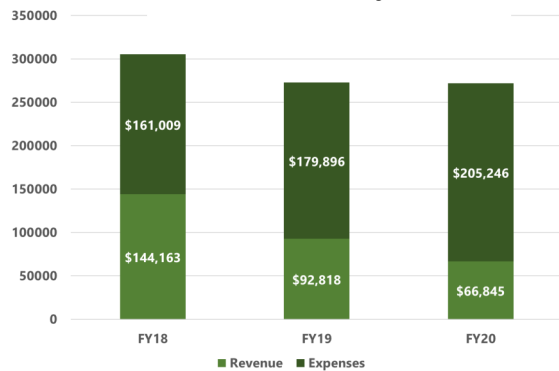


The top three sources of revenue in FY20 were the Department of Corrections (40%), scrap electronics / e-waste (18%), and printer cartridges (14%).

Contributions to the Heating Assistance Program (Utilicare)

Excess revenues from the sale of recyclable materials are transferred to the Heating Assistance Program (HAP) managed by the Missouri Department of Social Services pursuant to RSMo 34.032. The HAP, also known as Utilicare, provides financial assistance to low-income Missourians for heating their homes during winter months. As a result of state employee recycling efforts, a \$30,000 contribution to the HAP was made in FY20. This will help approximately 150 Missouri households pay their energy bills.

Financial Summary





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

Phone: 573-751-3384

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Environmental Improvement and Energy Resources Authority / Market Development Program

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

Email: eiera@dnr.mo.gov

Phone: 573-751-4919

The Missouri Market Development Program promotes the development of markets for recovered materials and recycled content products throughout Missouri by providing businesses, governments, and other organizations with financial assistance and information services.

Waste Management Program

Missouri Department of Natural Resources

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

Email: swmp@dnr.mo.gov

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

The Waste Management Program (WMP) works with citizens, businesses, industry, and government to continue increasing material reuse and recycling. The WMP website is an excellent resource for information dealing with all aspects of solid waste management in Missouri. There are 20 solid waste management districts in the state.

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 Recycled Products & Services

- Cardboard boxes: 65 percent post-consumer content
- Plastic bags: 30 percent recycled material
- Metal products: 25 percent post-consumer content
- Toilet paper: 100 percent recycled material
- Envelopes: 20 percent post-consumer content
- Recycled Plastic
 - * Picnic Tables
 - * Park benches

MVE Recycling/Remanufacturing/ Refurbishing Services

Toner Cartridge Refill Service

573-751-3224 ext. 1260

Furniture & Office Panel (cubicle)
Refurbishing

573-751-6663 or 800-392-8486

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

Appendices may be viewed by visiting the [Missouri State Recycling website](#).