

Member Communities

Farmington Farmington Hills Milford Milford Township Novi South Lyon Southfield Walled Lake Wixom

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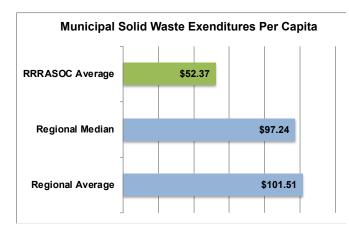
RRRASOC Staff

Michael Csapo, General Manager Laura Shaw, Administrative Secretary IRIS Waste Diversion Specialists, Education and Outreach Coordinators

Over the course of 2023, RRRASOC and its Member Communities continued providing cost-effective, environmentally responsible materials management programs through intergovernmental cooperation and public-private partnerships. RRRASOC worked with industry stakeholders and our communities to improve upon programs and facilities, capitalizing on opportunities to deploy state-of-the-art technology and best practices.

Notable activities and accomplishments last year included:

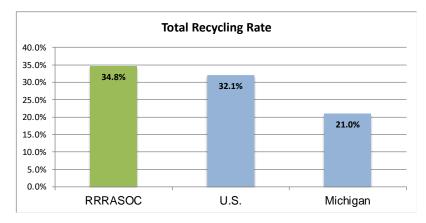
- RRRASOC initiated the installation of a two robotic sorters and AI scanners at the MRF, with funding from the Michigan Department of Environment, Great Lakes, and Energy (EGLE), The Recycling Partnership, the Carton Council, and the Foodservice Packaging Institute;
- RRRASOC initiated an EGLE grant-funded project with IRIS Waste Diversion Specialists and The Recycling Partnership to increase multi-family recycling, as well as to improve material quality and processing safety by reducing recycling contamination;
- The Michigan Department of Agriculture and Rural Development increased RRRASOC's Clean Sweep grant, helping RRRASOC facilitate the collection of pesticides throughout the region;
- RRRASOC helped three communities evaluate proposals for curbside collection services;
- RRRASOC, in partnership with SOCRRA, contracted with Tetra Tech to begin the development of a Storm and Disaster Debris Management Plan that will cover their 21 communities, both collectively and individually;
- RRRASOC, in partnership with its communities and others regional stakeholders, began developing opportunities for improved organics management and composting;
- The annual audit by Plante Moran of the *RRRASOC Financial Report for FY 2022 2023* showed that RRRASOC conducted its financial affairs in accordance with generally accepted accounting principles and that the Authority improved its financial position;
- The completion of the *FY 2023 2024 Solid Waste Expenditure Benchmark Study* demonstrated the continued cost-effectiveness of the programs in the RRRASOC communities.



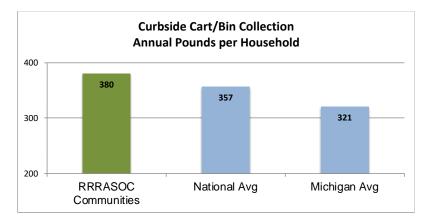
In 2023, through the RRRASOC community programs, 15,099 tons of paper, plastic, glass, and metal were recycled; 19,854 tons of yard waste were composted; 11 tons of clothing were collected for reuse; 236 tons of hazardous material were collected for recycling or disposal; and 66,090 tons were landfilled.

In total, more than 35,200 tons of recyclable and reusable material, yard waste, and household hazardous waste items were collected and diverted from local landfills through the communities' curbside collection, drop-off, and event-based programs.

The combined recycling rate of the RRRASOC communities increased from the prior year to 34.8%, which is higher than both the U.S. and Michigan rates.

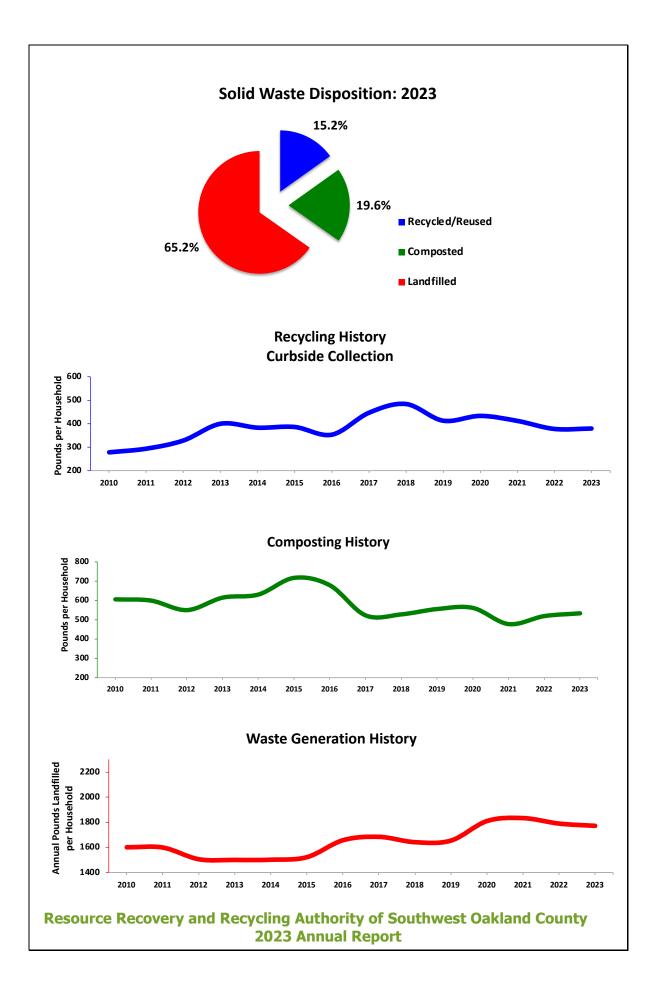


In aggregate, the RRRASOC communities collected 380 pounds per household with their curbside cart/bin collection programs, exceeding the national and Michigan averages.



Lifecycle analysis shows that recapturing those resources for value-added economic activity also yielded significant environmental benefits, including the following:

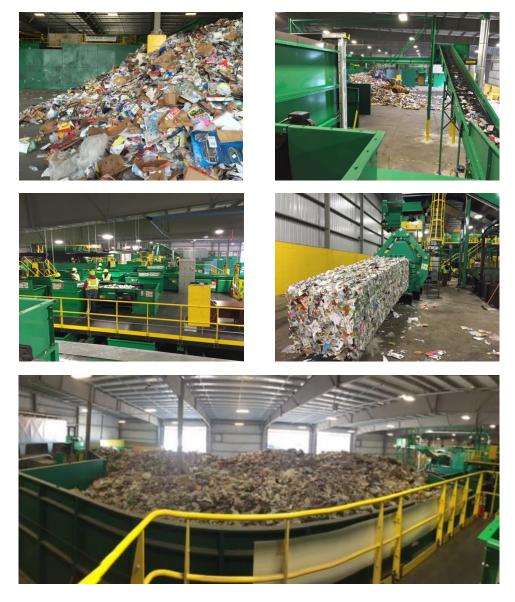
- Conserved more than 152.2 billion Btu, which is the equivalent of the annual energy consumption of 1,507 households;
- Reduced CO2e emissions by 33,832 metric tons;
- Preserved more than 113,990 trees;
- Reduced airborne pollution emissions by 17,074 tons;
- Reduced waterborne pollution emissions by 64 tons.



RRRASOC extended its operating agreement with its contracted MRF operating partner, Republic Services. The MRF operated efficiently through the year and continued to serve as an important part of community and commercial recycling programs throughout southeast Michigan.

Overall, the facility processed more than 48,810 tons of material during the year. The 74,600 RRRASOC area homes and the two RRRASOC drop-off centers contributed nearly 30% of the total throughput. The paper, glass, plastic, and metal that was processed at the MRF was shipped throughout the U.S. and abroad, providing critical feedstock for manufacturers and the sustainable supply chain.

Capital expenditure projects included the initial stages of installing two grant-funded robotic sorters at the MRF, which will address chronic labor shortages, improve operational efficiency, and improve product quality.



RRRASOC's Household Hazardous Waste (HHW) collection program had another solid performance in 2023. More than 8,800 residents participated in the program, which made it the third highest annual participation in program history and 6% higher than the average for the prior five years.

The use of the contractor's site for drop off activity set a new record, exceeding the old record set in 2021 by 9%.

Nearly 471,300 pounds of material were collected in 2023, which is 12% more than the historic program average.

RRRASOC worked with the Michigan Department of Agriculture to increase RRRASOC's Clean Sweep grant to \$45,000, which facilitates the collection of pesticides throughout the region.

ERG Environmental Services, a local hazardous waste company, handled the material. Disposal and recycling costs through ERG continued to be among the lowest in southeast Michigan. All material was handled in accordance with state and federal laws.





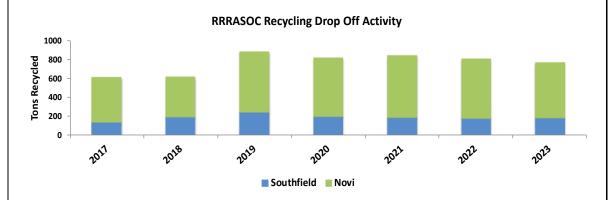




RRRASOC's recycling drop-off centers continued to be a popular recycling option for residents and businesses throughout the region. Last year, nearly 771 tons were brought to the sites, which is .5% higher than the average for the previous six years.

The drop-off center in Novi accounted for more than 591 tons of recycling, while the Southfield location contributed another 179 tons.

RRRASOC worked with IRIS Waste Diversion Specialists and The Recycling Partnership to conduct analysis and education surrounding the use of the Southfield site to reduce contamination and improve material preparation compliance. The project also included outreach and promotional efforts targeted to improve recycling in multi-family homes.



RRRASOC maintained a collaborative, multi-media approach to community outreach and education, leveraging partnerships with stakeholder organizations. Efforts in 2023 complemented the communication programs of our individual communities with the following:

- 89,675 direct mail educational postcards;
- 21,719 first time users of the online Recycling Directory;
- 274,000 material searches by residents using our online Recycling Directory;
- More than 5,100 User Sessions with Recycling Directory mobile application;
- Subscribers to our monthy electronic newsletter increased by more than 9%;
- 569 new resident packets were distributed;
- Participation in community events throughout the area;
- Continuous improvements were made to RRRASOC's digital and print information by IRIS Waste Diversion Specialists, with ongoing design and funding assistance from stakeholder organizations such as The Recycling Partnership, the Carton Council, and the Foodservice Packaging Institute.

