

Member Communities

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

Board of Directors

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Vice Chairman

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Designated Board Alternates

Chuck Eudy, Director, Farmington Department of Public Services
Karen Mondora, Director, Farmington Hills Department of Public Services
Derrick Schueller, Superintendent, Farmington Hills Department of Public Works
Mike Karll, Director, Village of Milford Department of Public Services
Jeff Herczeg, Director, Novi Department of Public Works
John Michrina, Deputy City Administrator, Southfield
Tim Sikma, Director, Wixom Department of Public Works

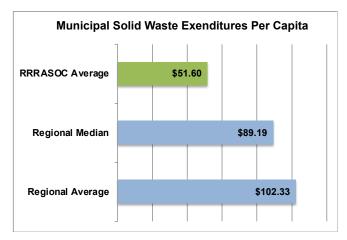
RRRASOC Staff

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

During 2022, RRRASOC and its Member Communities maintained their focus on costeffective, environmentally responsible materials management programs while evaluating programs and facilities with an eye toward ensuring sustainability.

Notable activities and accomplishments last year included:

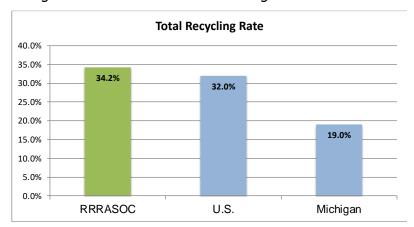
- RRRASOC completed the installation of a document shredder for residential use at the Southfield Drop Off Center at the MRF, which was 80% funded by a Michigan EGLE grant of nearly \$65,000;
- RRRASOC completed Phase Two of a project with IRIS Waste Diversion Specialists and The Recycling Partnership to improve material quality and processing safety by reducing recycling contamination, using a \$50,000 grant from the Michigan Department of Environment, Great Lakes, and Energy (EGLE);
- The Michigan Department of Agriculture increased RRRASOC's Clean Sweep grant to \$26,000, helping RRRASOC facilitate the collection of pesticides throughout the region;
- RRRASOC helped two communities navigate soliciting new proposals for curbside collection services while assisting a third in negotiating a contract extension;
- RRRASOC partnered with Glacier (a private sector robotics company), SOCRRA, The
 Recycling Partnership, the Carton Council, and the Foodservice Packing Institute to
 develop a project to test Glacier's innovative robotic applications at recycling
 facilities. The project was awarded funding from Michigan EGLE and is expected to
 be deployed in 2023;
- RRRASOC partnered with SOCRRA to develop a Storm and Disaster Debris
 Management Planning project that was accepted into the NextCycle Michigan
 program. An RFP is scheduled to be released in 2023;
- The HHW program set a new program participation record;
- The annual audit by Plante Moran of the RRRASOC Financial Report for FY 2021 –
 2022 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 2022 2023 Solid Waste Expenditure Benchmark Study demonstrated the continued cost-effectiveness of the programs in the RRRASOC communities.



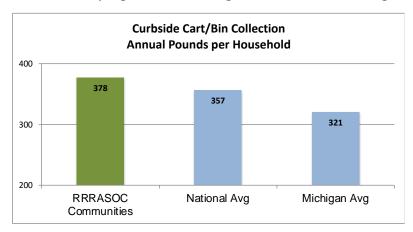
Last year, 15,018 tons of paper, plastic, glass, and metal were recycled; 19,238 tons of yard waste were composted; 11 tons of clothing were collected for reuse; 278 tons of hazardous material were collected for recycling or disposal; and 66,485 tons were landfilled.

In total, nearly 34,550 tons of recyclable and reusable material, yard waste, and household hazardous waste items were collected and diverted from local landfills through the RRRASOC curbside collection, drop-off, and event-based programs.

The combined recycling rate of the RRRASOC communities increased from last year to 34.2%, which is higher than both the U.S. and Michigan rates.

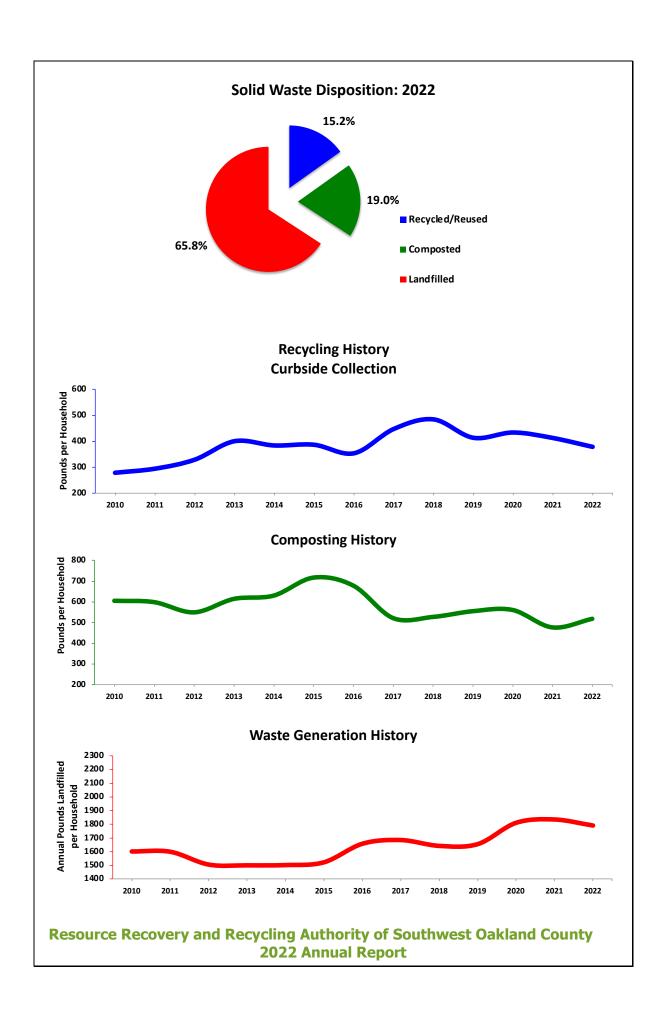


The RRRASOC communities collected more than 378 pounds per household with their curbside cart/bin collection programs, exceeding the national and Michigan averages.



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

- Conserved nearly 151 billion Btu, which is the equivalent of the annual energy consumption of 1,495 households;
- Reduced CO2e emissions by 35,400 metric tons;
- Preserved more than 113,000 trees;
- Reduced airborne pollution emissions by 16,932 tons;
- Reduced waterborne pollution emissions by 63 tons.



RRRASOC's contracted MRF operating partner, Republic Services, operated the MRF at full capacity, running two production shifts per day, as the MRF continued to serve as an important part of Michigan's circular economy.

Overall, the facility processed more than 61,000 tons of material during the year. The 74,300 RRRASOC area homes and the two RRRASOC drop-off centers contributed nearly 25% of the total throughput. Our communities accounted for about 15,000 tons of paper, glass, plastic, and metal that was processed at the MRF and shipped throughout the U.S. and abroad, providing critical feedstock for manufacturers and the sustainable supply chain.

During the year, RRRASOC worked with Resource Recycling Systems and Plante Moran Corporate Real Estate Advisors to conduct a thorough systems and facility assessment to identify opportunities to improve upon effectiveness and ensure sustainability.











RRRASOC's Household Hazardous Waste (HHW) collection program had another record-breaking performance in 2022. More than 9,000 residents participated in the program, which made it the highest year of participation in program history. The new overall participation record was 14% higher than the average for the prior five years.

The Wixom and Southfield spring events had their highest attendance ever, while use of the contractor's site for drop off activity nearly matched last year's record.

More than 555,000 pounds of material were collected in 2022, which is 10% more than the program average for the previous five years and 32% more than the program average for the previous twenty years.

RRRASOC worked with the Michigan Department of Agriculture to increase RRRASOC's Clean Sweep grant by 30% to \$26,000, 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.







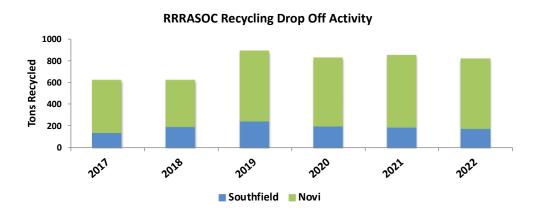


RRRASOC's recycling drop-off centers continued to be a popular recycling option for many residents and businesses throughout the region. Last year, 811 tons were brought to the sites, which is 7% higher than the average for the previous five years.

The drop-off center in Novi accounted for 639 tons of recycling, while the Southfield location contributed another 172 tons.

RRRASOC completed the installation of a document shredder for residential use at the Southfield Drop Off Center at the MRF, which was 80% funded by a Michigan EGLE grant of nearly \$65,000. The shredder is available for use by residents Monday through Friday during business hours.

RRRASOC continued to work with IRIS Waste Diversion Specialists and The Recycling Partnership to conduct analysis and education surrounding the use of the Novi site to reduce contamination and improve material preparation compliance.



RRRASOC continued to use a multi-platform approach to community outreach and materials management education. Last year's efforts complemented the communication programs of our individual communities with the following:

- Nearly 104,000 grant-funded, direct mail educational postcards;
- 18,839 first time users of the online Recycling Directory;
- 583,846 material searches by residents using our online Recycling Directory, which was 68% more than the record set last year;
- Downloads of the Recycling Directory mobile application increased nearly 7%;
- Subscribers to our monthy electronic newsletter increased by more than 10%;
- 838 new resident packets were distributed, which is 10% more than last year;
- Improvements were made to RRRASOC's digital and print information by IRIS Waste Diversion Specialists, with design and funding assistance from stakeholder organizations such as The Recycling Partnership, the Carton Council, and the Foodservice Packaging Institute.

RRRASOC COMMUNITIES

SOLID WASTE & RECYCLING

2022 METRICS

HOW WELL ARE WE RECYCLING?







Clothing Reused



Hazardous Materials Properly Managed



Yard Waste Composted

34,545 TOTAL TONS UTILIZED

66,485

101,030 TONS



TOTAL RECYCLING RATE IN RRRASOC COMMUNITIES, 2022 (378 lbs. per hausehold)



(321 lbs. per household)

RRRASOC COMMUNITIES HAD A HIGHER RESIDENTIAL RECYCLING RATE THAN THE MICHIGAN AVERAGE.



\$102.33 SOUTHEAST MICHIGAN

RRRASOC ONLY SPENT ABOUT HALF AS MUCH AS THE REGIONAL AVERAGE!





ENVIRONMENTAL IMPACTS







Energy Saved

Reduced CO2e







Trees Saved

Reduced Air/Waterborne Emissions





R·R·R·A·S·O·C

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