



R·R·R·A·S·O·C

2019 Annual Report

Member Communities

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

Board of Directors

Chairman

Fred Zorn, City Administrator, Southfield

Vice Chairman

David Boyer, City Manager, Farmington Hills

Treasurer

Chelsea Pesta, Assistant City Manager, Walled Lake

Secretary

Gary Mekjian, Assistant City Manager, Farmington Hills

David Murphy, City Manager, Farmington
Christian Wuerth, Village Manager, Milford
Don Green, Township Supervisor, Milford Township
Pete Auger, City Manager, Novi
Paul Zelenak, City Manager, South Lyon
L. Dennis Whitt, City Manager, Walled Lake
Steve Brown, City Manager, Wixom

Designated Board Alternates

Chuck Eudy, Director, Farmington Department of Public Services
Karen Mondora, Director, Farmington Hills Department of Public Services
Robert Calley, Director, Milford Department of Public Services
Victor Cardenas, Assistant City Manager, Novi
John Michrina, Deputy City Administrator, Southfield
Tim Sikma, Director, Wixom Department of Public Works

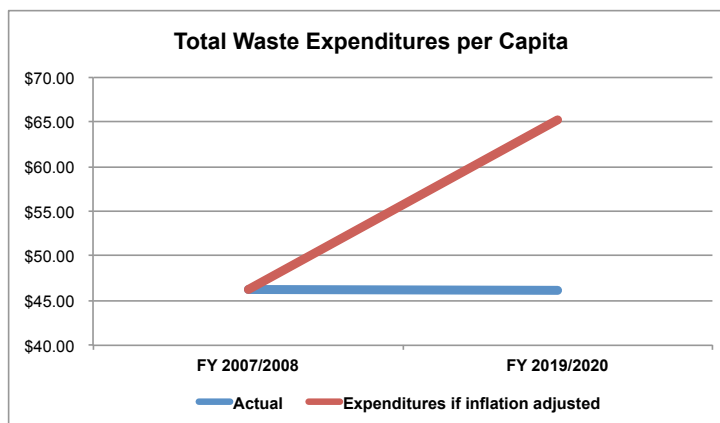
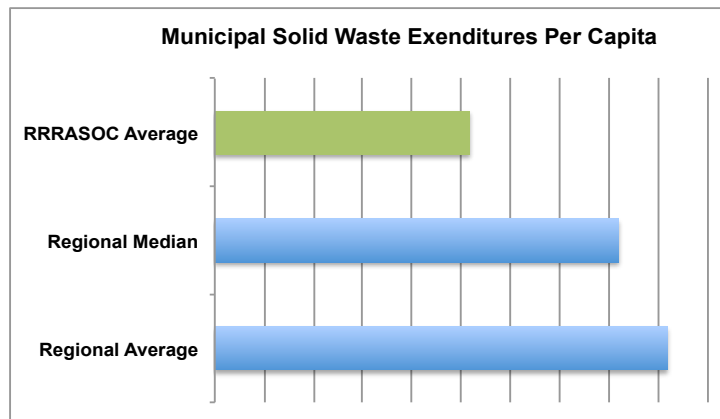
RRRASOC Staff

Michael Csapo, General Manager
Laura Shaw, Administrative Secretary
Tracy Purrenhage, Recycling Coordinator

RRRASOC and its Member Communities continued to emphasize community stewardship through intergovernmental cooperation, public private partnerships, and competitive contracting with private sector expertise to provide solid waste and recycling services to residents. The focus remained on best practices and innovation tailored to local needs.

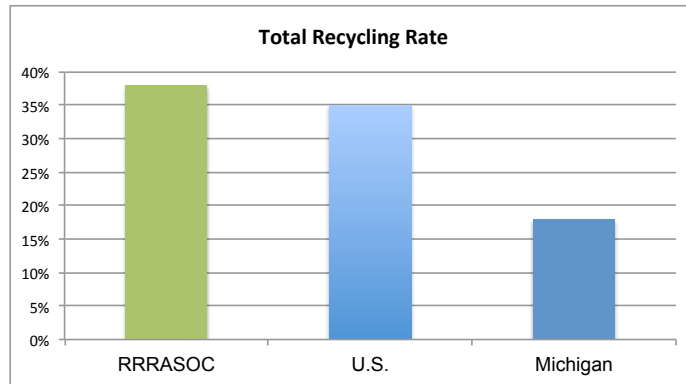
Notable activities in 2019 included:

- The completion of the *FY 2019 – 2020 Solid Waste Expenditure Benchmark Study* that demonstrated the cost effectiveness of the programs in the RRRASOC communities;
- The annual audit by Plante & Moran of the *RRRASOC Financial Report for FY 2018 – 2019* showed that RRRASOC conducted its financial affairs in accordance with generally accepted accounting principles and that the Authority improved its financial position despite the continued downturn in the commodities market;
- Along with its MRF operating partner, Republic Services, RRRASOC continued to navigate the challenging commodities markets as the RRRASOC MRF remained the highest volume processing facility in Michigan;
- An Alexa version of the popular Recycling Directory was deployed;
- The new *ReSource Guide* was mailed to every single-family home in the RRRASOC communities;
- A field observation study was conducted, designed to further quantify program performance and identify targetable opportunities for additional improvements.

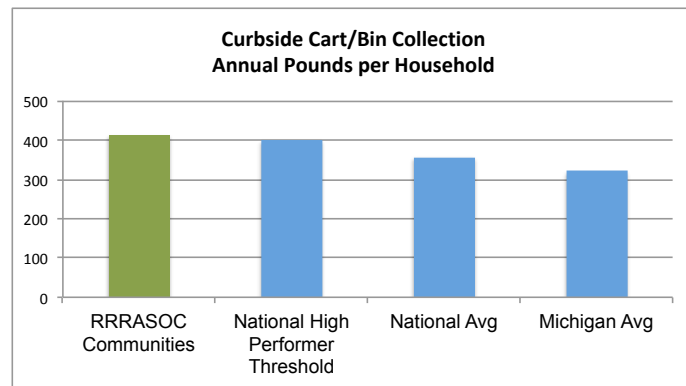


Nearly 37,000 tons of recyclable and reusable material, yard waste, and household hazardous waste items were collected and diverted from local landfills through the RRRASOC curbside collection, drop-off, and event-based programs.

The combined recycling rate of the RRRASOC communities was 37.8%, which compares favorably to Michigan's 18%, as well as the national average of 35%.



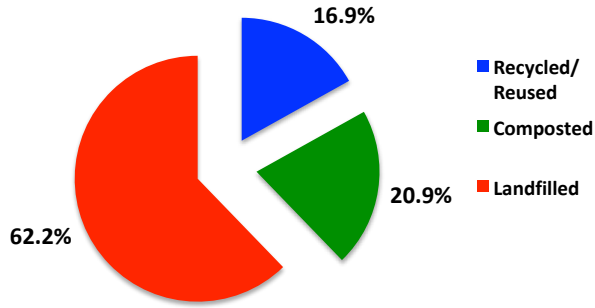
Overall, the RRRASOC communities collected more than 413 pounds per household through their curbside cart/bin collection programs, exceeding the national "High Performer" benchmark, in addition to the national and Michigan averages.



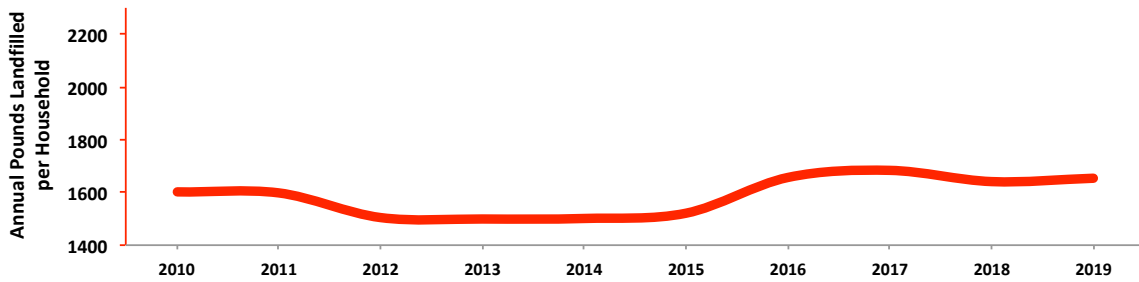
Lifecycle analysis shows that recapturing those resources for value-added economic activity also yielded significant environmental benefits, including the following:

- ♻️ Conserved more than 164 billion Btu, the equivalent of the annual energy consumption of 1,624 households;
- ♻️ Preserved nearly 123,000 trees;
- ♻️ Reduced waterborne pollution emissions by 69 tons;
- ♻️ Reduced airborne pollution emissions by nearly 18,400 metric tons of carbon equivalent.

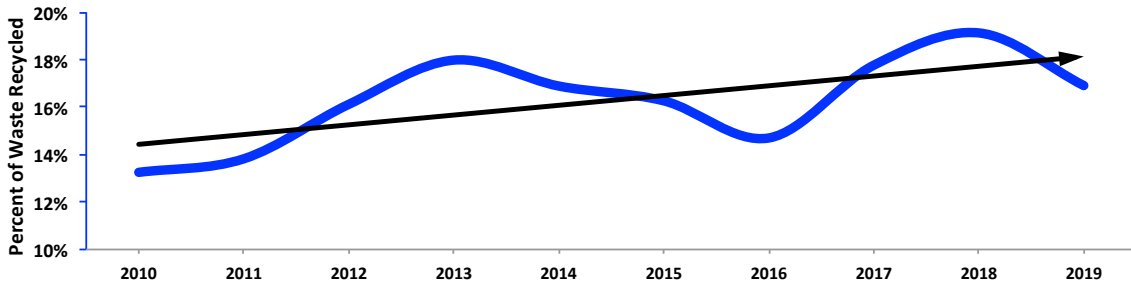
Solid Waste Disposition: 2019



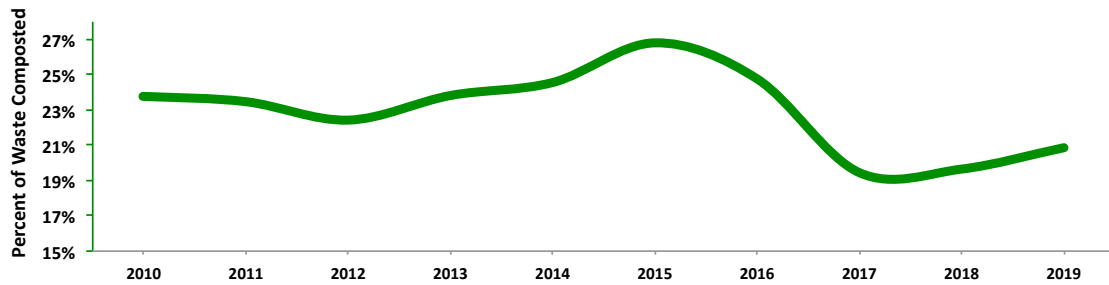
Waste Generation History



Recycling History



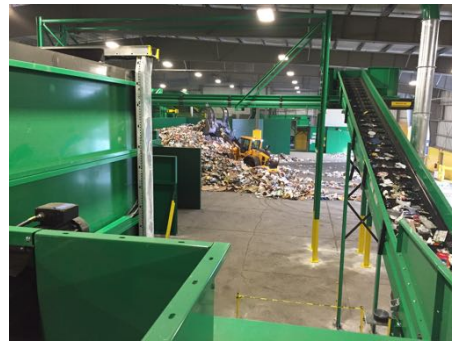
Composting History



RRRASOC's MRF operating partner, Republic Services, operated the MRF at full capacity, running two production shifts per day, often six days per week, as the MRF continued to serve as the cornerstone for the recycling in the RRRASOC communities and much of southeast Michigan.



Overall, the facility processed more than 71,000 tons during the year, with 23% representing recycling from the nearly 74,000 RRRASOC area homes and the RRRASOC drop-off centers. Our communities combined for more than 16,000 tons of paper, glass, plastic, and metal that was processed at the MRF and shipped throughout the U.S. and abroad, providing valuable feedstock for manufacturers.



RRRASOC's Household Hazardous Waste (HHW) collection program had great participation in 2019, with nearly 8,200 residents participating in the program to take advantage of the opportunity to recycle and properly disposed of the hazardous material found in their homes. Attendance records were set at the events in Wixom, Milford, and Southfield and total program participation set a new record.

More than 500,000 pounds of material were collected in 2019. The material was comprised of the following:

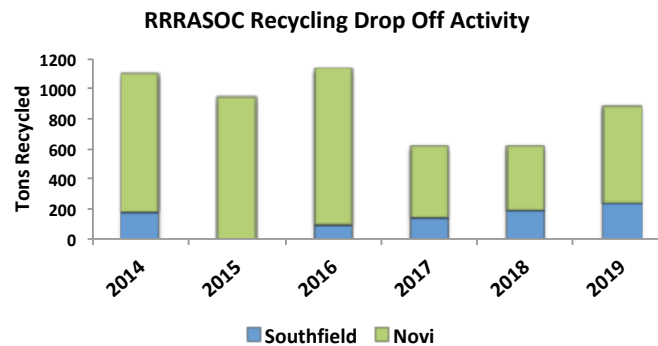
- Used electronic equipment = 55.8%
- Herbicides, pesticides, and other toxic products = 8.7%;
- Lead acid and dry cell batteries = 8.0%;
- Motor oil = 6.6%;
- Other flammable liquids = 4.7%;
- Oil-based paint = 4.0%;
- The remaining 12.2% fell into 15 other categories of hazardous materials.

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



RRRASOC's recycling drop-off centers continued to be a popular recycling option for many throughout the region. Last year, 885 tons were brought to the sites, constituting a 43% increase.

The drop-off center in Novi saw its usage double from the prior year and accounted for 648 tons of recycling, while the Southfield location had more than a 26% increase and contributed another 237 tons.



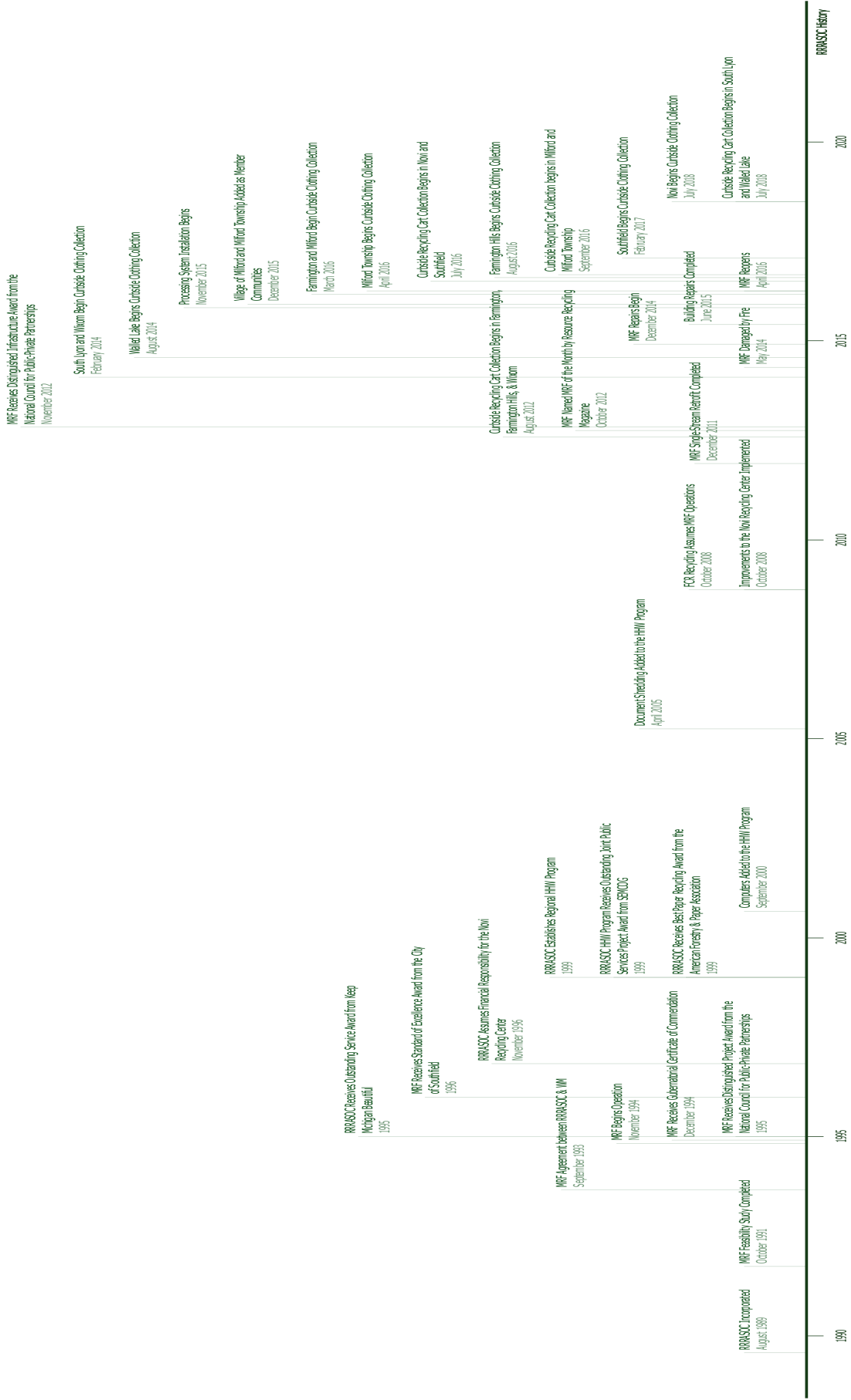
The Simple Recycling program remained robust. Designed to complement charitable giving by our homeowners, the program offers an opportunity to ensure that household goods that might otherwise be landfilled are integrated back into the value chain. During the year, more than 385,000 pounds were collected for reuse and recycling.



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

- Nearly 74,000 direct mail educational postcards and the Resource Guide;
- Nearly 60,000 material searches using our online Recycling Directory;
- An Alexa version of the Recycling Directory was deployed;
- Downloads of the Recycling Directory mobile application grew to over 2,900;
- Subscribers to our monthly electronic newsletter increased by 15%;
- 45 tours of the MRF were given;
- Three offsite presentations were given to students and community groups;
- 1,113 new resident packets were distributed;
- An new educational video of the MRF was produced and distributed.

Resource Recovery and Recycling Authority of Southwest Oakland County 2019 Annual Report





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20000 W. 8 Mile Road
Southfield, MI 48075
248.208.2270
248.208.2273 fax
www.RRRASOC.org

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