



R·R·R·A·S·O·C

2016 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

Lynne Ladner, City Manager, South Lyon

Treasurer

Chelsea Rodgers, Administrative Assistant, Walled Lake

Secretary

Gary Mekjian, Assistant City Manager, Farmington Hills

David Boyer, 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
L. Dennis Whitt, City Manager, Walled Lake
Clarence Goodlein, City Manager, Wixom

Designated Board Alternates

Chuck Eudy, Director, Farmington 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

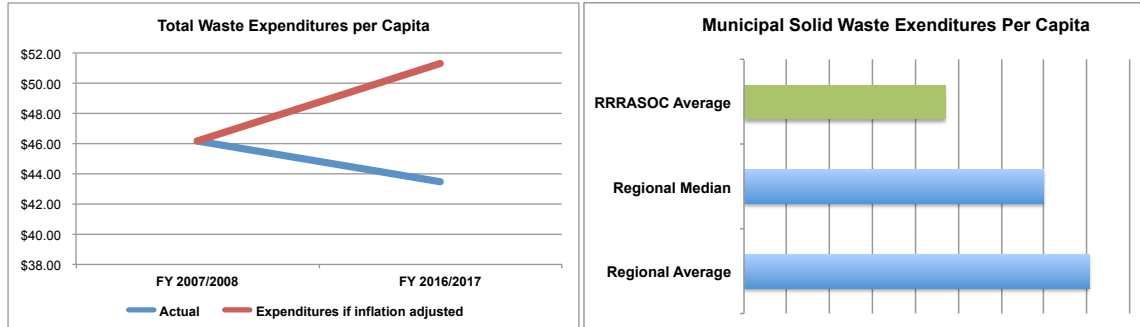
RRRASOC Staff

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

In 2016, RRRASOC maintained its focus on helping communities deploy best practices and provide residents with the programs necessary to ensure that end-of-life products enter back into the value chain in an efficient and sustainable fashion or be cost effectively and safely disposed.

Notable activities in 2016 included:

- The RRRASOC Material Recovery Facility (MRF) resumed operations in April and is running at full capacity;
- RRRASOC completed the 2016 version of its *Solid Waste Expenditure Benchmark Study*, demonstrating the cost effectiveness of expenditures in its Member Communities;
- A grant-funded outreach and education campaign was deployed in Southfield designed to improve participation in recycling and program performance;
- The Simple Recycling clothing reuse and recycling program was expanded;
- RRRASOC completed deployment of its online recycling search tool and mobile application. With information easily accessible and available across a variety of platforms, more than 43,000 searches by residents were conducted since the system was implemented;
- Recycling opportunity and performance increased with the roll out of new recycling carts for curbside service in several communities. Nearly 18,000 new recycling carts were delivered as the Village of Milford, Milford Township, Novi, and Southfield joined Farmington, Farmington Hills, and Wixom in providing recycling carts for curbside collection.

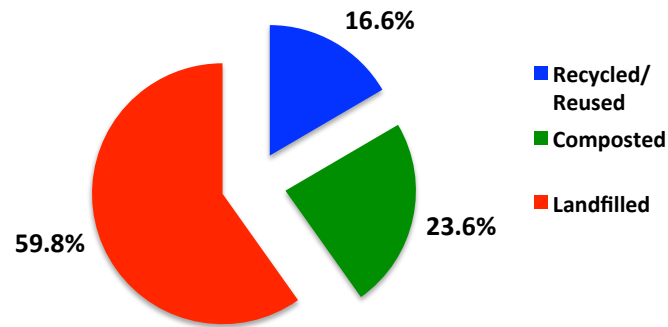


Nearly 35,000 tons of yard waste, recyclables, and household hazardous waste items were collected through the RRRASOC collection programs and diverted from local landfills. RRRASOC's overall recycling rate was 40.2%, well above Michigan's 15% and the national average of 35%.

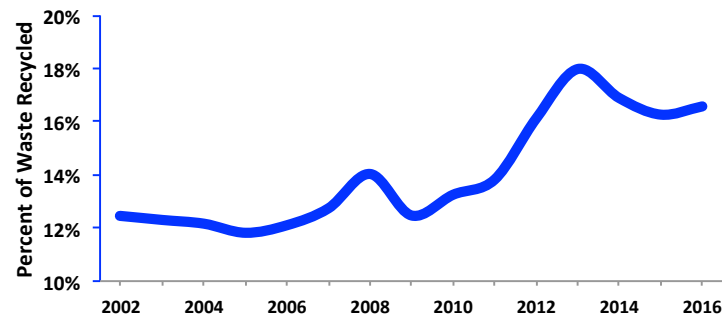
Lifecycle analysis shows that recapturing those resources for value-added economic activity also yielded significant environmental benefits, including the following:

- Conserved nearly 143 billion Btu, the equivalent of the annual energy consumption of more than 1,414 households;
- Preserved nearly 107,000 trees;
- Reduced waterborne pollution emissions by nearly 60 tons;
- Reduced airborne emissions by 16,021 metric tons of carbon equivalent.

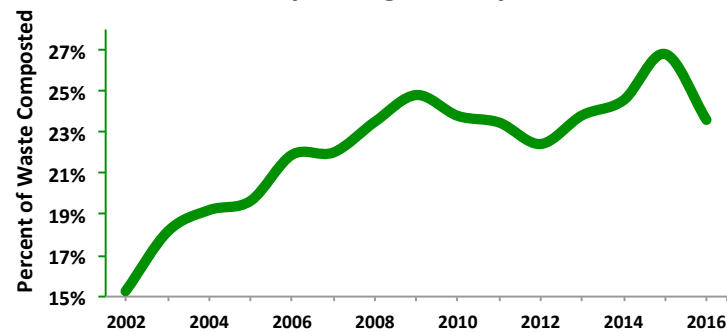
Solid Waste Disposition: 2016



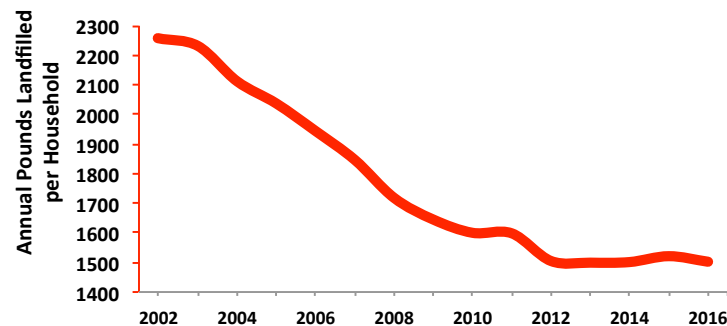
Recycling History



Composting History



Waste Generation History



RRRASOC and its partner, ReCommunity Recycling, completed the process of recovering from a devastating fire that occurred at the materials recovery facility (MRF) in Southfield in 2014. The installation of new, state-of-the-art processing equipment was completed and full operations resumed on April 1.



Overall, the facility processed 68,584 tons during the year, with 16% representing recycling from the nearly 69,200 RRRASOC area homes, as well as material from the RRRASOC drop-off centers. Our communities combined for 10,713 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.

Where Your Recycled Materials Go

After Michigan's recycled material is separated and baled at the local ReCommunity MRF, it is sent to a variety of reprocessing locations to be made into new products. See the map below for a sample list of commodities and common reprocessing locations.



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RRRASOC's Household Hazardous Waste (HHW) collection program experienced continued popularity in 2016. With the addition of the spring event in Milford, nearly 6,900 residents took advantage of the opportunity to recycle and properly disposed of the hazardous material found in their homes. Events in both Wixom and Southfield set attendance records.

Nearly 386,000 pounds of material were collected in 2016. Used electronic equipment made up 54.6% of the material. Lead acid and dry cell batteries comprised 9%. Herbicides, pesticides, and other toxic products constituted 8.6% of the collected material. Motor oil was 8.4% of the total, oil-based paint was 5.1%, and other flammable liquids accounted for 4.5%. The remaining 9.8% fell into sixteen different categories or types of hazardous materials.

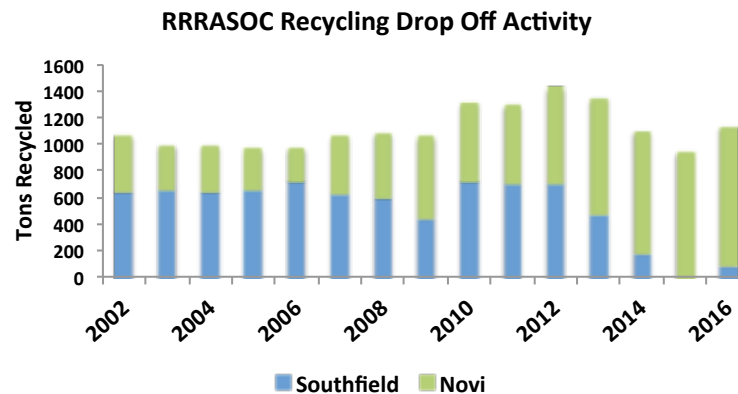
Environmental Recycling Group, Inc. (ERG), a local hazardous waste company, handled the material. Disposal and recycling costs through ERG continue to be the lowest in southeast Michigan. All material was handled in accordance with state and federal laws. Document shredding was also provided at each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

Special electronic waste collections also took place in Wixom and Novi, contributing nearly 97,000 pounds for recycling in 2016.



RRRASOC's recycling drop-off center in Novi continued to be a popular recycling option. Last year, nearly 1,113 tons were brought to the site for recycling, which compares to 931 tons in the prior year.

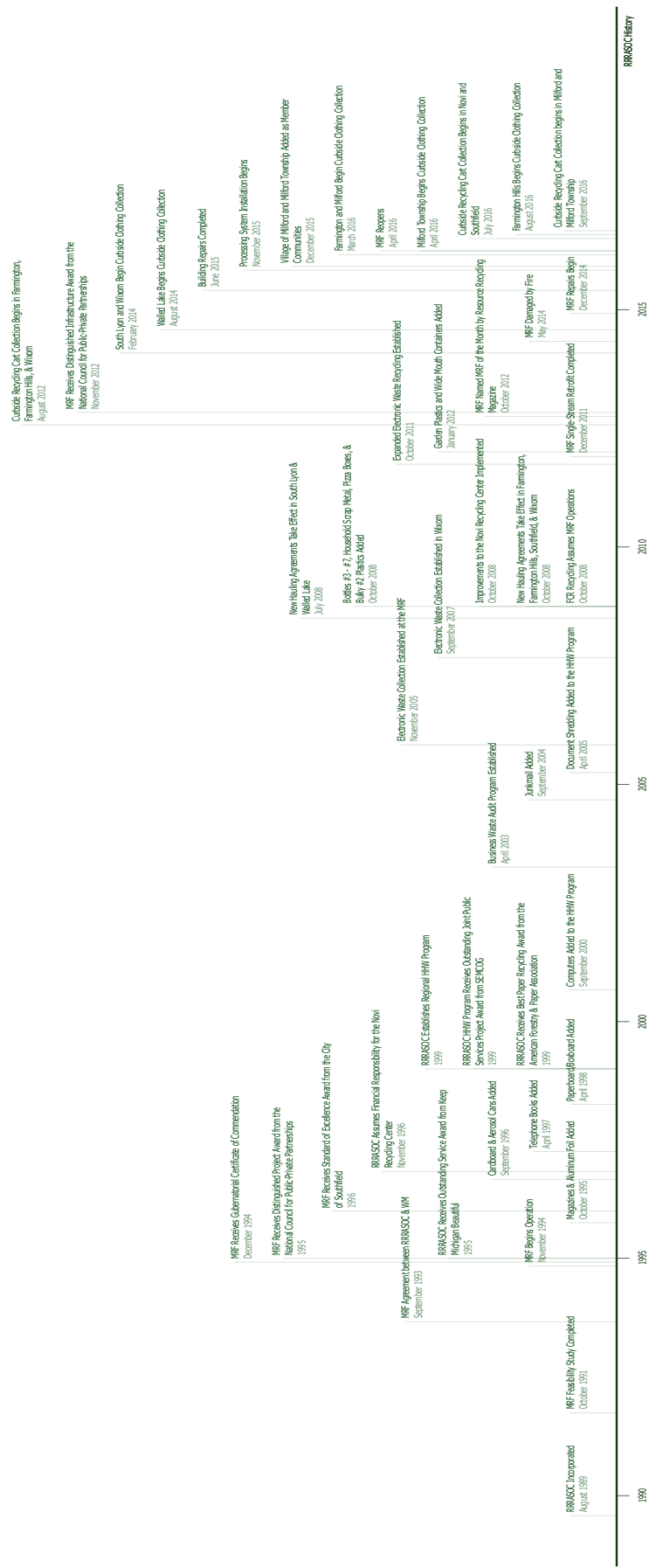
The drop-off center in Southfield resumed operations in April, as the MRF came back online, and accounted for 88 tons of recycling.



The communities of Farmington, the Village of Milford, Milford Township, and Farmington Hills, joined Walled Lake, Wixom, and South Lyon in participating in the weekly curbside collection of clothing and small household goods by Simple Recycling. The City of Southfield also approved the program to begin in early 2017.

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 249,000 pounds were collected for reuse and recycling.





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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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