

2016 SOLID WASTE ANNUAL REPORT

Executive Summary

In 1988, the Illinois Environmental Protection Agency passed the Solid Waste Planning and Recycling Act. The purpose of this Act was to provide incentives for decreasing generation of municipal waste, to require counties to develop comprehensive waste management plans that would place emphasis on recycling and other alternatives to landfills, to encourage municipal recycling and source reduction, and to promote composting of yard wastes. The Act required that by March 1, 1995, the County officially adopt a plan for the management of municipal waste generated within its boundaries and set target goals for recycling.

In March of 1995, the DeKalb County Board adopted the DeKalb County Solid Waste Plan. The Board appointed the DeKalb County Health Department to be the administrative agency to manage the Solid Waste Management Program for the county. Implementation of the Plan by the Health Department began in January 1996. In 2000, 2005, 2010 and 2015, the DeKalb County Board of Health and DeKalb County Board completed reviews, updates and approval of the Plan. Beginning in 1995, the Solid Waste Program was funded by a \$1.10 per ton tipping fee on waste deposited in the landfill. In 2007, the tipping fee was increased to \$1.27 per ton. The Host Fee Agreement for the landfill expansion went into effect in 2014. In August 2014, revenue for the Solid Waste Program transitioned from tipping fees to the Host Fee Agreement.

The County Board adopted Resolution 2014-65 on September 17, 2014 to adopt zero waste as a guiding principle within the DeKalb County Solid Waste Management Plan, as recommended by the Zero Waste Task Force, and directed that the initial task focus on: the expansion of Rural Recycling, development of an ordinance to address Commercial/ Multi-Unit Recycling, development of a pilot program to harvest organic waste and establishment of a community advisory committee to provide input.

The following DeKalb County Landfill data was provided by Waste Management:

Total waste deposited (in tons)	518,183.02
Total out of county waste deposited (in tons)	438,550.7
Percentage of out-of-county waste	85%
Average tons per day deposited (5-day weeks, total 260 days)	1,993.01
Years of life remaining at current disposal rate	37

Over the course of the last twenty years the Solid Waste program has committed to managing Solid Waste with the intention of diverting as much away from the landfill as possible. Each year the Program follows the plan to work toward the goal of reducing the landfill rate by 50 percent by the year 2034. In 2016 about 22% of waste was diverted from the landfill. Another way of measuring the amount of waste generated is by measuring the pounds per person per day (ppd). In 2016, the landfill rate measured 5 ppd; this is an increase over the 2015 rate of 4.4 ppd.

2016 Solid Waste Program Achievements

Harvesting Organic Waste

- The Solid Waste and Recycling Community Advisory Committee began implementation to launch the 2017 City of DeKalb Food Scrap Collection Pilot Program.

Rural Recycling

- The Solid Waste Program continued its 3-year rural recycling agreement with both Somonauk Township and a property owner in Kingston. The sites service rural residents in both the southern and northern regions of the County. Many other residents are serviced by local haulers who compete to pick up their recycling, which gives them more options.

Other Solid Waste Program (SWP) Achievements

- The SWP coordinated a household hazardous waste (HHW) drive and collected almost 5 tons of HHW, having yearly events prevent residents from storing large amounts of HHW.
- The SWP coordinated a collection event and distributed over 200 pairs of gently used athletic shoes to be reused by children for Physical Education classes.
- The SWP continued to provide assistance to the municipal electronic recycling programs. We collected 136 tons of electronic waste. We hosted two TV drives for residents as well as monthly events throughout the County.
- The SWP participated in an electronic recycling advocacy group and sent recommendations to the Illinois Environmental Protection Agency concerning electronics recycling legislation.
- The SWP collected over 1,000 pounds of holiday lights for recycling.
- The SWP worked with Community Action Center to collect and distribute gently used coats for needy families.
- The SWP hosted the first Green Living Festival to teach county residents about waste reduction and healthy living.
- The SWP worked in partnership with other organizations focused on waste reduction, including the Northern Illinois University Green Team, City of DeKalb Citizen's Environmental Commission, Illinois Product Stewardship Council, Illinois Food Scrap Coalition, Illinois Recycling Association and Illinois County Solid Waste Managers Association, the Fox Valley Sustainability Network.
- The SWP worked with the University of Illinois Extension to provide recycling education to over 4,000 students.

- The SWP updated the Solid Waste and Recycling webpage as needed.
- The SWP used social media as a tool for disseminating information about Solid Waste Reduction Programs.
- The SWP provided press releases and interviews with news media outlets as needed.
- The SWP provided Earth Day education to Health Department clients and staff.

2017 Solid Waste Program Goals

Harvesting Organic Waste

- The SWP plans to implement organic waste pilot project.
- The SWP plan to explore ways to collect organic waste from businesses.

Rural Recycling

- The SWP plans to work with local haulers to increase rural residential curbside recycling by creating education materials.

Commercial/Multi-Unit Housing Recycling

- The SWP would like to explore ways to educate commercial and multiunit owners about basic recycling.

Other Solid Waste Program Goals

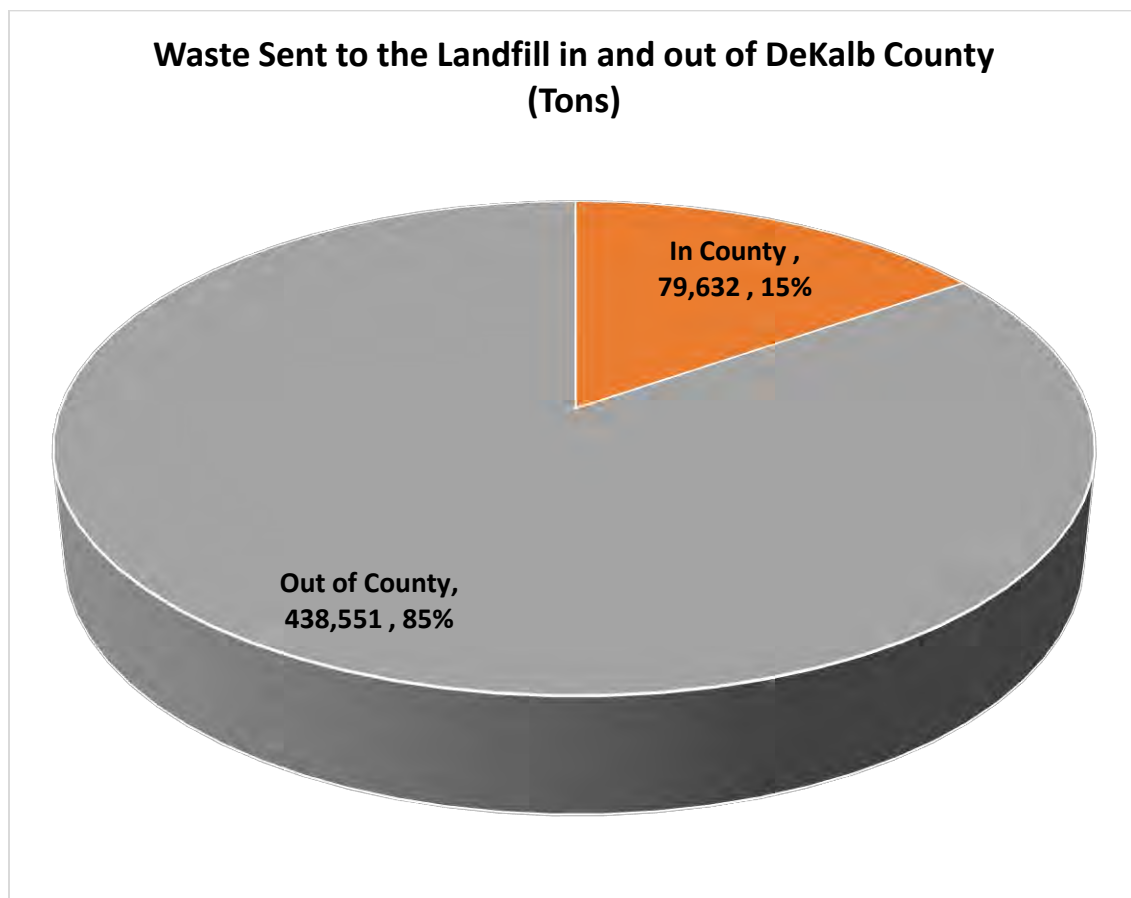
- The SWP plans to coordinate the annual Shoe Share Drive.
- The SWP plans to host and organize the second annual Green Living Festival.
- The SWP plans to host annual Household Hazardous Waste drive.
- The SWP plans to continue supporting municipal electronics recycling programs.
- The SWP plans to coordinate the annual holiday lights collection.

- The SWP plans to increase public awareness at community festivals and events.
- The SWP plans to work with municipal leaders to increase overall waste diversion from the landfill.
- The SWP plans to work with industry groups to improve electronics disposal legislation in the State of Illinois.
- The SWP plans to increase participation with waste industry partners including the Illinois County Solid Waste Managers Association, Illinois Recycling Association, Illinois Food Scrap Coalition, Illinois Product Stewardship Council, the Fox Valley Sustainability Network, the Citizens Environmental Commission and the Solid Waste and Recycling Community Advisory Committee for networking, sharing ideas, staying informed of legislation and advocacy efforts.
- The SWP plans to coordinate educational outreach to public schools with the Green Lunch Room Challenge program.

Solid Waste Program Data for 2015

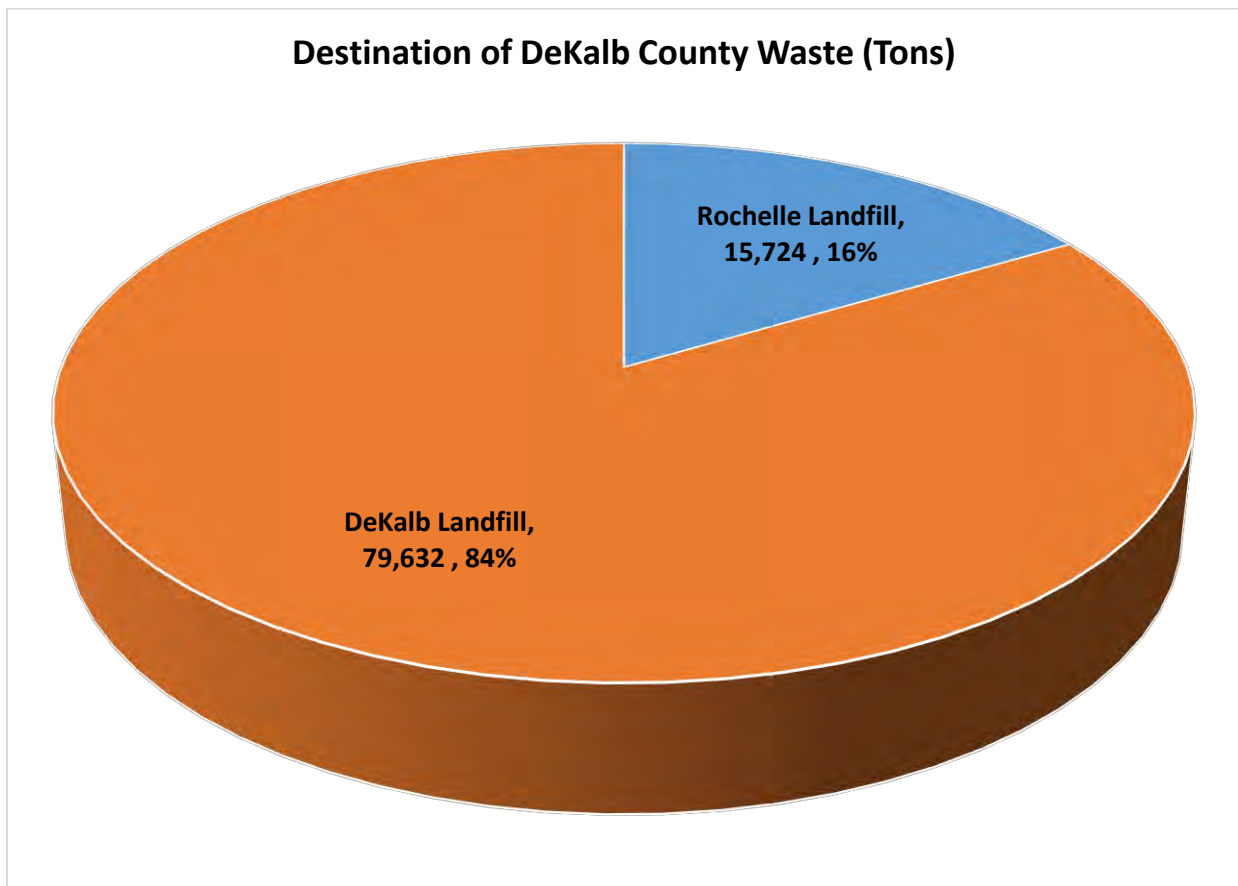
Graph 1: Indicates the amount of waste landfilled in the DeKalb County Landfill from DeKalb County and other counties. DeKalb County communities generated 79,632 tons or 15% of the waste. Surrounding counties generated 438,551 tons or 85% of the waste. Waste Management voluntarily provided this data from the DeKalb County Landfill.

Graph 1: Waste Sent to DeKalb County Landfill (tons)



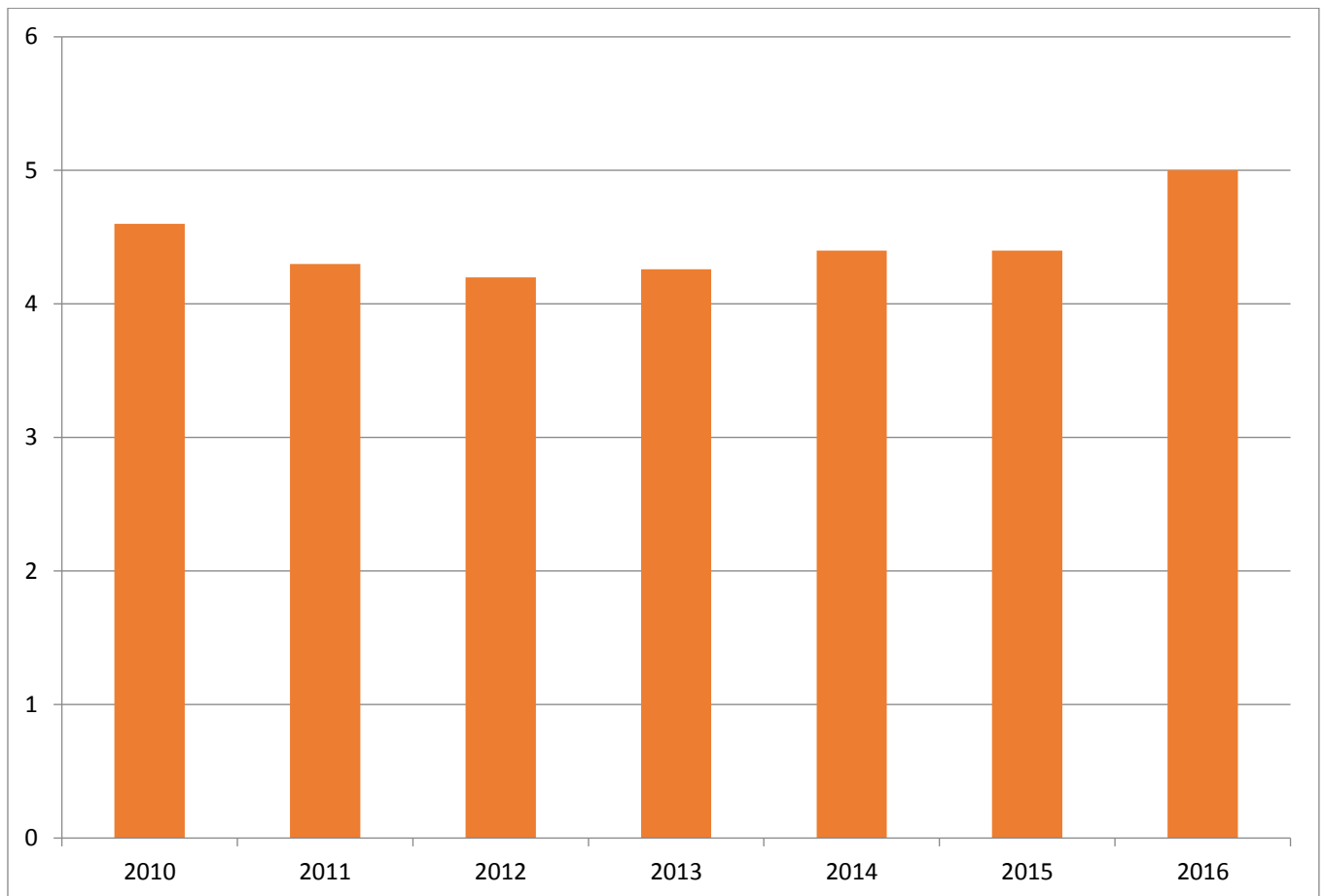
Graph 2: Indicates the amount of waste DeKalb County residents and businesses generated and which landfill accepted the waste. DeKalb County Landfill accepted 84 percent of the County's waste. Rochelle Landfill accepted the remaining 16 percent.

Graph 2: Waste generated by DeKalb County (tons) and its Destination



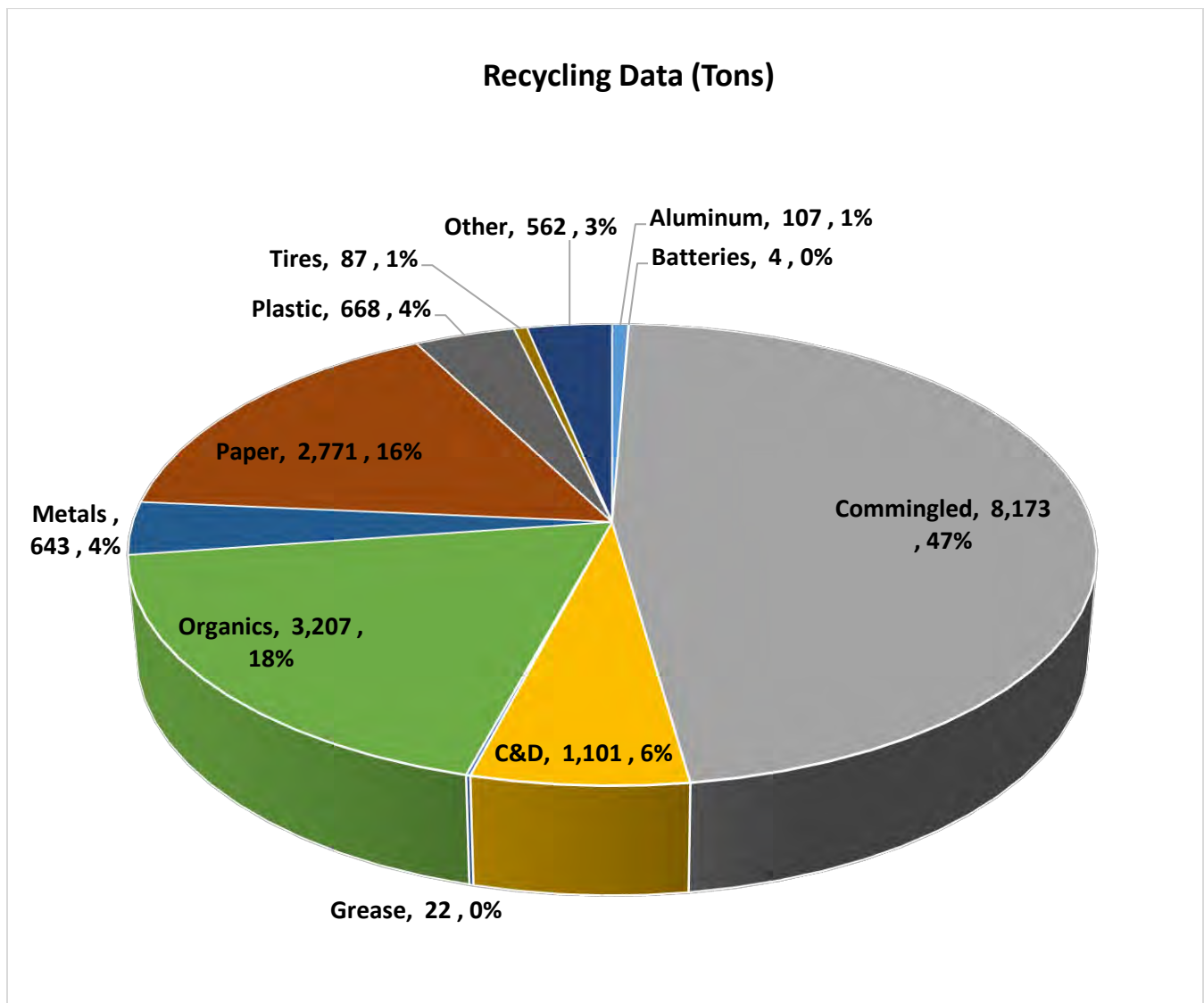
Graph 3: Indicates the County's per capita landfill rate 2010-2016. In 2016, the County generated 5.0 pounds of waste per person per day. This is an increase over 2015 but may be due to more accurate collection methods.

Graph 3: Per capita landfill rate (PPD)



Graph 4: Indicates the estimated composition of materials recycled. In 2016, 17,347 tons of recyclable materials were collected and diverted from the landfill. Comingled waste represented the largest portion of the recycling stream. Other categories of recyclables are shown below. All recycling percentages are based on voluntarily information provided by business and haulers known to be operating in DeKalb County.

Graph 4: Recycling Composition Estimates



Solid Waste Management Program Financial Statement 2010 – 2016

Historically, the Solid Waste Program was funded by tipping fees from the landfill (Chart 1). The financial statement below shows financial revenues and expenditures from 2010 through 2016. Note that in August of 2014 the revenue stream changed from a tipping fee to a Host Benefit Agreement (Chart 2).

Chart 1: Tipping Fee Revenue/Expenditures

Fiscal Year	Revenue/ Tipping Fees	Interest	Other Revenue	Total	Expenditures	Fund Balance
2010	\$96,769	\$532	\$0	\$97,301	\$107,661	\$77,138
2011	\$92,389	\$315	\$2880	\$95,584	\$114,520	\$58,250
2012	\$89,235	\$64	\$390	\$89,689	\$112,539	\$35,400
2013	\$93,004	\$28	\$3239	\$96,271	\$106,971	\$24,699
2014	\$93,000*	\$41	\$2,481	\$95,522	\$89,024	\$31,198

Chart 2: Host Benefit Agreement based Revenues/Expenditures

Fiscal Year	Landfill Host Benefit**	Interest	Household Hazardous Waste	Other Revenue	Total	Expenditures	Fund Balance
2015	\$200,000	\$123	\$25,000	\$2,159	\$227,282	\$175,261	\$84,728
2016	\$203,400	\$67	\$24,390	\$290	\$228,147	\$218,823	\$115,431

* \$54,259 Revenue/Tipping Fee + \$38,741 Landfill Host Benefit

** 2015 is the first full year of the Landfill Host Benefit