

## 2014 SOLID WASTE ANNUAL REPORT

### Background

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, each county with a population of less than 100,000 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, and 2010, 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.

### Results for 2014

The County's recycling and waste reporting system is voluntary. There are approximately 60 recyclers and waste haulers who were surveyed. In addition, landfills in and near DeKalb County were surveyed to determine the total amount of Municipal Solid Waste produced by DeKalb County. The tables and graphs on the following pages show the results of the surveys. Table 1 displays the County's recycling rate from 2003-2014. Table 2 outlines the methodology for determining DeKalb County's recycling rate and includes the *Landfill Rate*. Graph 1 shows the composition of material recycled last year. Graph 2 compares 2014 types of waste recycled to previous years. Graph 3 identifies final disposal (Landfill) locations for DeKalb County Municipal Solid Waste. Graph 4 identifies the total landfill rate as pounds per person per day. Additionally the County's Zero Waste Task Force recommended to the County Board to adopt Zero Waste as a guiding principle. The County did adopt this recommendation September 17, 2014, with the goal of achieving a 50% reduction in the landfill rate by 2035. Future solid waste plan updates will incorporate these principles.

### Conclusion

DeKalb County's comprehensive recycling programs have achieved an overall **62%** recycling rate for 2014. Removing construction and demolition debris, a **39%** recycling rate is achieved. DeKalb County's recycling rate continues to exceed the State's 25 percent recycling goal by a significant margin. The County will continue to monitor its recycling rate and landfill rate on an annual basis and recognize the commitment the County's residents and businesses have made to recycling and waste reduction.

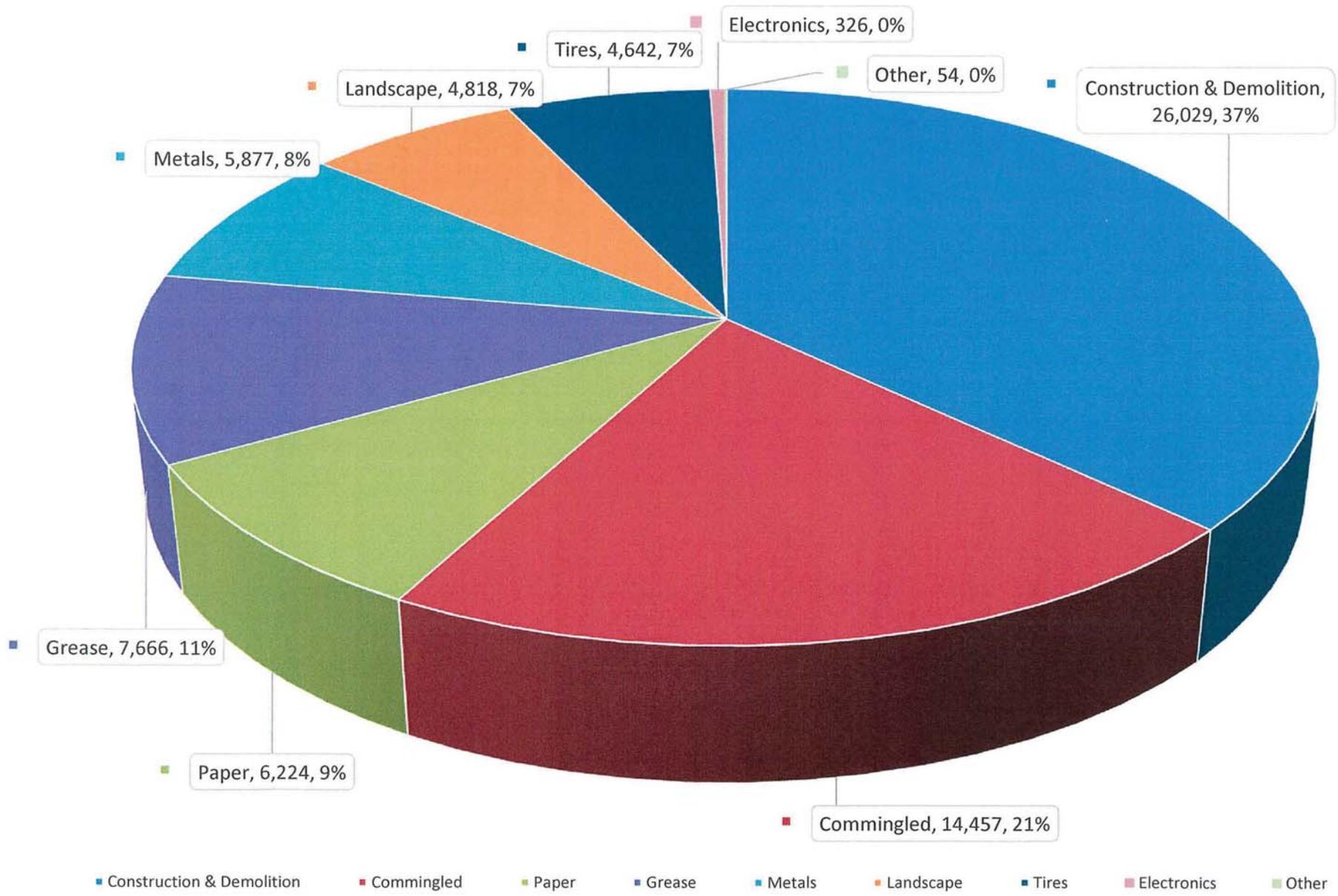
**Table 1  
DeKalb County's Recycling Rate 2003-2014**

<b>2014</b>	<b>2013</b>	<b>2012</b>
<b>70,093 Tons Recycled</b> <b>153,806 Tons Municipal Waste Generated</b> <b>62% Recycling Rate</b>	43,645 Tons Recycled 125,053 Tons Municipal Waste Generated 51% Recycling Rate	66,449 Tons Recycled 108,219 Tons Municipal Waste Generated 61% Recycling Rate
<b>2011</b>	<b>2010</b>	<b>2009</b>
48,018 Tons Recycled 90,899 Tons Municipal Waste Generated Recycling Rate 53%	37,771 Tons Recycled 85,564 Tons Municipal Waste Generated Recycling Rate 44%	41,857 Tons Recycled 95,907 Tons Municipal Waste Generated Recycling Rate 44%
<b>2008</b>	<b>2007</b>	<b>2006</b>
49,117 Tons Recycled 109,997 Tons Municipal Waste Generated Recycling Rate 45%	68,052 Tons Recycled 125,705 Tons Municipal Waste Generated Recycling Rate 54%	76,186 Tons Recycled 124,252 Tons Municipal Waste Generated Recycling Rate 61%
<b>2005</b>	<b>2004</b>	<b>2003</b>
69,599 Tons Recycled 137,379 Tons Municipal Waste Generated Recycling Rate 55%	58,352 Tons Recycled 114,114 Tons Municipal Waste Generated Recycling Rate 51%	45,692 Tons Recycled 92,855 Tons Municipal Waste Generated Recycling Rate 49%

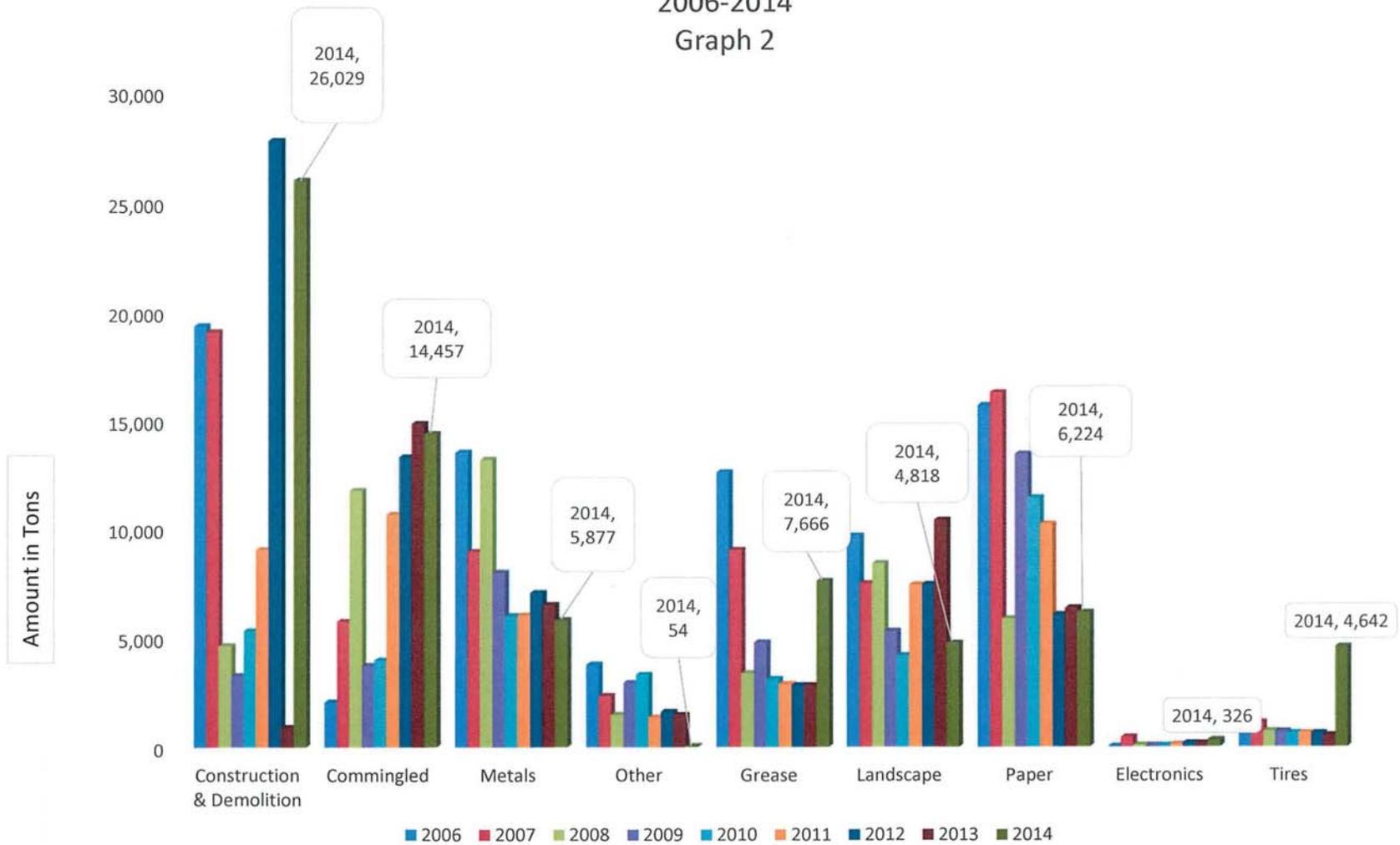
**Table 2  
Calculation of 2014 Recycling Rate**

Total Solid Waste Landfilled (excluding special waste)	83,713
Total Solid Waste Recycled (excluding industrial/pre-consumer recycled materials)	70,093
<b>TOTAL SOLID WASTE GENERATED</b>	<b>153,806</b>
Total Industrial Waste (DeKalb County's Population (105,160 multiplied by 2.1 lbs. multiplied by 365 days divided by 2000 lbs.)	40,303
<b>TOTAL MUNICIPAL SOLID WASTE GENERATED</b> (subtract total industrial waste from total waste generated)	<b>113,503</b>
<b>TOTAL LANDFILL RATE</b> (Divide total pounds landfilled [83,713 tons] by DeKalb County population divided by 365) Listed as pounds per person per day	<b>4.4#/p/d</b>
<b>TOTAL COUNTY RECYCLING RATE</b> (Total Waste Recycled divided by Total Municipal Solid Waste multiplied by 100)	<b>62%</b>
<b>TOTAL COUNTY RECYCLING RATE</b> (Excluding Construction and Demolition Debris Total Recycled divided by Municipal Solid Waste)	<b>39%</b>

COMPOSITION of all DEKALB COUNTY WASTE RECYCLED  
Graph 1 - 2014

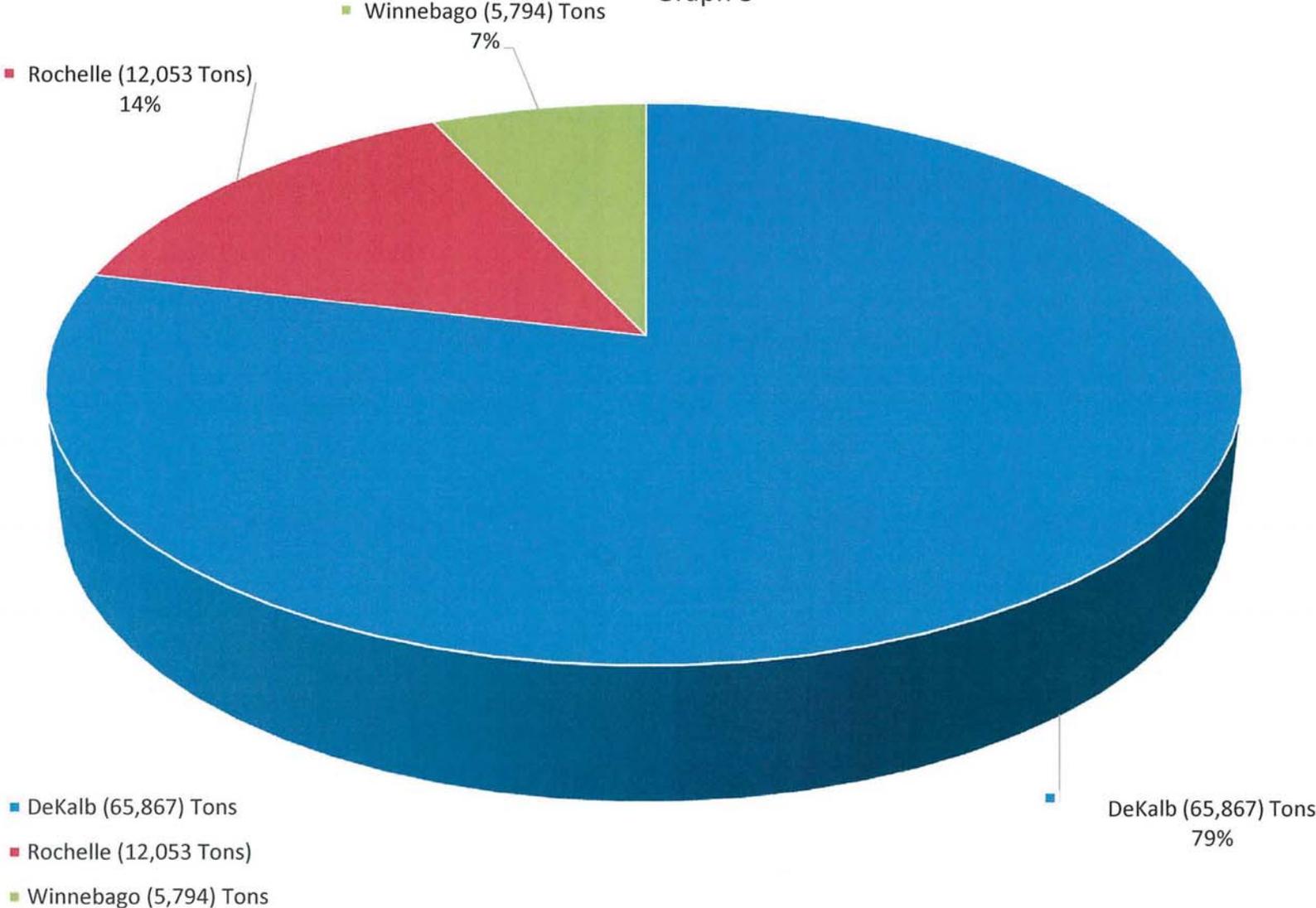


COMPARISON of WASTE RECYCLED in DEKALB COUNTY  
2006-2014  
Graph 2

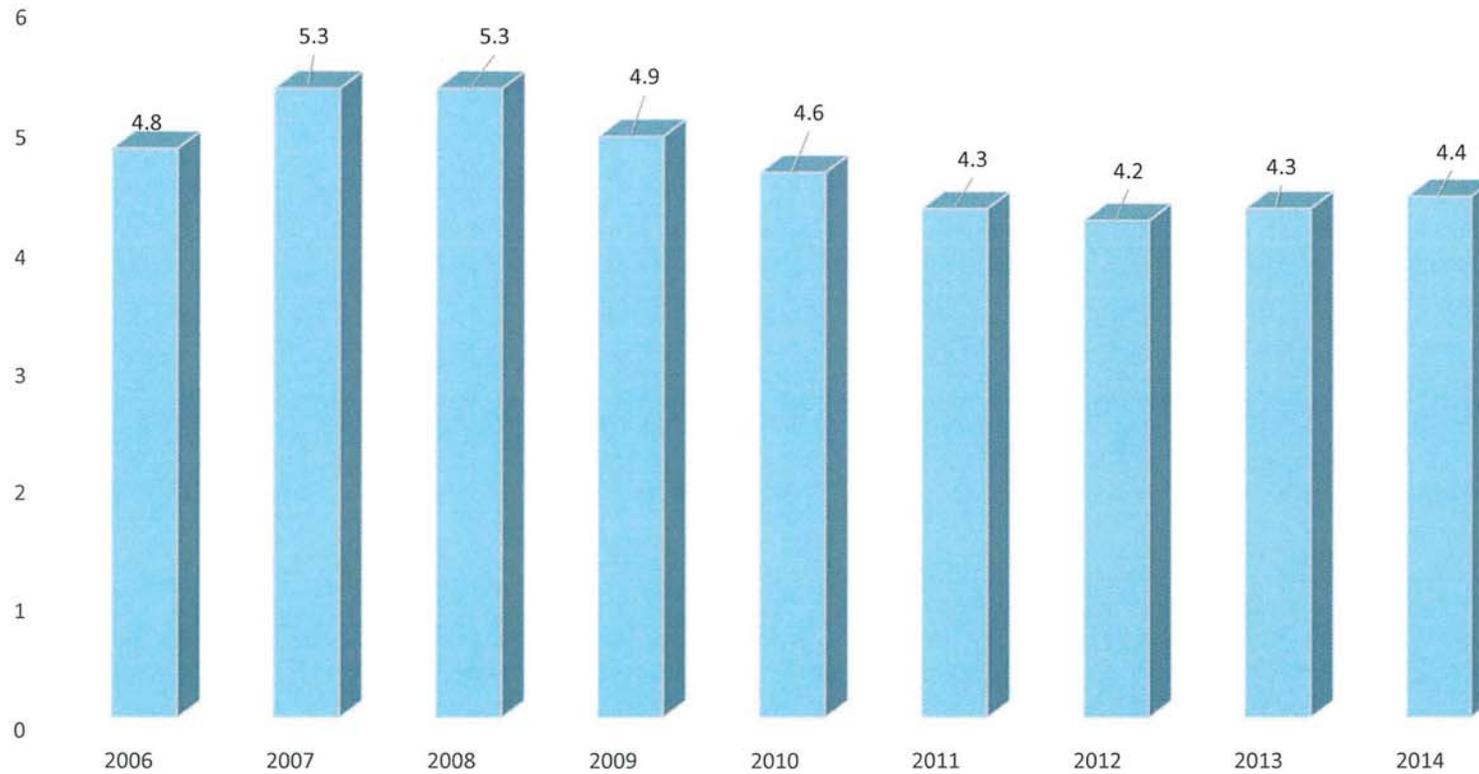


FINAL DISPOSAL DEKALB COUNTY WASTE 2014

Graph 3



Total Landfill Rate  
Displayed as Pounds/Person/Day  
Graph 4



**DATE:** March 17, 2015

**TO:** DeKalb County Board of Health  
DeKalb County Planning & Zoning Committee

**FROM:** Greg Maurice  
Director of Health Protection

**RE:** End of year report of total waste deposited at the DeKalb County Recycling and Disposal Facility for 2014

The following information reflects data provided to the DeKalb County Solid Waste Management Program by Waste Management.

Total waste deposited (in tons)	178,906
Total out of county waste deposited (in tons)	113,039
Percentage of out of county waste	63%
Average tons per day deposited (M-F=260 days)	688
Total Revenue/Tipping fee & Host Agreement	\$93,000
Years of life remaining at current disposal rate	40

**DeKalb County Illinois  
Solid Waste Management Program  
Financial Statement  
1995-2014**

<b>Fiscal Year</b>	<b>Revenue/ Tipping Fees</b>	<b>Interest</b>	<b>Other Revenue</b>	<b>Total</b>	<b>Expenditures</b>	<b>Fund Balance</b>
1995	\$26,941	\$2		\$26,943	\$0	\$26,943
1996	\$96,386	\$2,037		\$98,423	\$37,080	\$88,286
1997	\$87,564	\$2,821		\$90,385	\$128,368	\$50,303
1998	\$85,670	\$2,375		\$88,045	\$72,720	\$65,628
1999	\$85,454	\$2,416		\$87,870	\$114,576	\$38,922
2000	\$87,892	\$1,582		\$89,474	\$77,963	\$50,433
2001	\$81,093	\$1,514	\$3,000	\$85,607	\$96,963	\$39,077
2002	\$85,321	\$607	\$4,400	\$90,328	\$105,993	\$23,413
2003	\$87,894	\$388	\$6,000	\$94,282	\$91,214	\$26,481
2004	\$95,202	\$440	\$7,000	\$102,642	\$94,589	\$34,534
2005	\$93,010	\$450		\$93,460	\$83,713	\$44,281
2006	\$92,759	\$591	\$4,860	\$98,210	\$94,373	\$47,886
2007	\$142,400 (Five quarters)	\$1060	\$760	\$144,220	\$103,267	\$88,838
2008	\$106,977	\$862		\$107,899	\$86,263	\$110,474
2009	\$90,279	\$654		\$90,933	\$113,910	\$87,497
2010	\$96,769	\$532		\$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

\* (\$54,259 Revenue/Tipping Fee + \$38,741 Host Agreement)

# DEKALB COUNTY RECYCLING AND SOLID WASTE MANAGEMENT PROGRAM 2014 Achievements

- Provided **information and consultation** to individuals, businesses, municipalities, and school districts regarding recycling and waste reduction. Partnered with University of Illinois Cooperative Extension to provide school education for **4268 County students**.
- Surveyed area waste haulers and private businesses that contract recycling services to **determine the County's annual recycling** rate to be 62% total recycled waste and 39% without construction and demolition waste.
- Coordinated the consortium of municipalities who took over the hosting of electronics recycling events at their sites. These monthly collections brought in nearly 254 tons of product and are more convenient for residents.
- Coordinated a **household hazardous waste** collection event. Over 38 tons of household hazardous waste was collected at this event.
- Provided "**Event Recycling Containers**" for non-for-profit groups to borrow for recycling at outdoor festivals and events.
- Coordinated the County's **Printer Cartridge and Lead Acid Battery recycling**.
- Served as an ad-hoc member on the **City of DeKalb Citizens Environmental Commission**.
- Distributed **news releases** to media regarding recycling, reuse, and waste reduction.
- Continued funding the **rural recycling drop-off sites** in Kingston and Somonauk, Illinois.
- Coordinated the **Holiday Light Recycling** program for County residents, which brought in approximately one ton of holiday lights for recycling. Partnered with various municipal sites for greater convenience for residents.
- Provided leadership of the **DeKalb County Zero Waste Task Force**, and submitted the final report to the County Board.
- Applied for and received an **IEPA grant** for electronics recycling program publicity.

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## DEKALB COUNTY SOLID WASTE MANAGEMENT PLAN PROGRAM GOALS

1. **Support increased public involvement and education.**
  - a. Regularly submit press releases and feature articles to area media outlets including websites.
  - b. Support the University of Illinois Cooperative Extension Service to update the educational curriculum used in the DeKalb County schools. Investigate increasing the grade levels included in the recycling education programming.
  - c. Present recycling/waste issues information for community and school groups.
  - d. With input from the public (solid waste advisory committee) generate the update to the Solid Waste Plan.
  
2. **Focus on source reduction, recycling, and reuse options**
  - a. Maintain the funding for rural recycling collection sites.
  - b. Explore the feasibility for municipalities to adopt recycling ordinances for businesses and multi-unit housing units.
  - c. Identify and recommend model source reduction programs throughout the county.
  - d. Maintain work with municipalities on hosting of routine recycling collections.
  - e. Work with the schools on recycling options and source reduction.
  - f. Promote freecycling, and electronic exchange postings of items within the community.
  - g. Promote purchasing of recycled material products in DeKalb County communities.
  - h. Develop a list-serve for County residents regarding the Solid Waste programming.
  - i. Calculate and publicize the County's *Landfill Rate* as a measure of pounds per resident per day that is sent to the landfill.
  
3. **Address management of special wastes within DeKalb County**
  - a. Continue to sponsor various special waste collections.
  - b. Focus on education for disposal of special and "orphan" wastes.
  - c. Research alternatives for ongoing disposal of special wastes.
  
4. **Transition of Solid Waste Program**
  - a. Incorporate new Solid Waste Specialist, including orientation to the County Solid Waste Plan and all relevant partners.
  - b. Incorporate expanded programming as recommended by the Zero Waste Task Force.
  - c. Submit the 2015 Solid Waste Plan update to the Board of Health, County Board and the Illinois Environmental Protection Agency.