

City of Kirkwood Public Works Sanitation Division

Mission Statement

- To provide cost-effective curbside and rear yard collection of residential trash, commercial waste, and specially bagged yard waste
- To efficiently operate and maintain a first-rate, user-friendly Recycling Depository
- To make customer service the highest priority in all areas of operation

General Description

The Sanitation Division is responsible for the collection of refuse and yard waste from approximately 9,260 single-family residences, providing commercial dumpster services as contracted, and operation of the Recycling Depository.

The Sanitation Division's residential collection consists of (1) twice weekly curbside refuse collection for approximately 9,078 customers using three routes with each truck collecting refuse from approximately 1,500 residences; (2) once weekly rear yard service to approximately 85 residences with 2 routes each using a pickup truck with a dump bed; (3) special pick up service of large items once-a-week using a flat bed truck; (4) once-per-week yard waste collection performed by two rear yard collection trucks, each servicing approximately 2,300 residences; and (5) delivery of refuse bags semi-annually to residential customers. Currently the Sanitation Division has 81 customers remaining on a limited bag program.

The Sanitation Division commercial service consists of emptying 151 dumpsters of various sizes four days a week with one truck.

The Sanitation Division recycling service consists of the operation of an award-winning Recycling Depository. The Depository operates 24 hours per day, seven days a week with two full-time employees. Approximately 3,400 customers visit the facility each week, collecting 3,100 tons of recyclables per year.

In April, 2002, Kirkwood voters rejected a rate hike. After defeat of the sanitation rate increase, the City contracted with the consultant firm of R.W. Beck to study a Pay-As-You-Throw collection system and mandatory curbside recycling. This \$45,000 study was completed in August, 2003, with a community public hearing and report to the City Council. The R. W. Beck study provided various rate proposals for the City to consider to bring the Sanitation Fund to a break-even operation. The study was 100% funded through grants from the St. Louis Jefferson Solid Waste Management District and St. Louis County Department of Health. The City Council reviewed the rate and service options in the R. W. Beck study and held a well-publicized public forum, and after due consideration

City of Kirkwood Public Works Sanitation Division

decided to offer two sanitation options to the citizens of Kirkwood at the April 6, 2004 elections.

In April, 2004, the voters approved the continuation of the present service by a vote of 4,957 to 2,959; and Proposition R failed by a vote of 2,056 to 5,764.

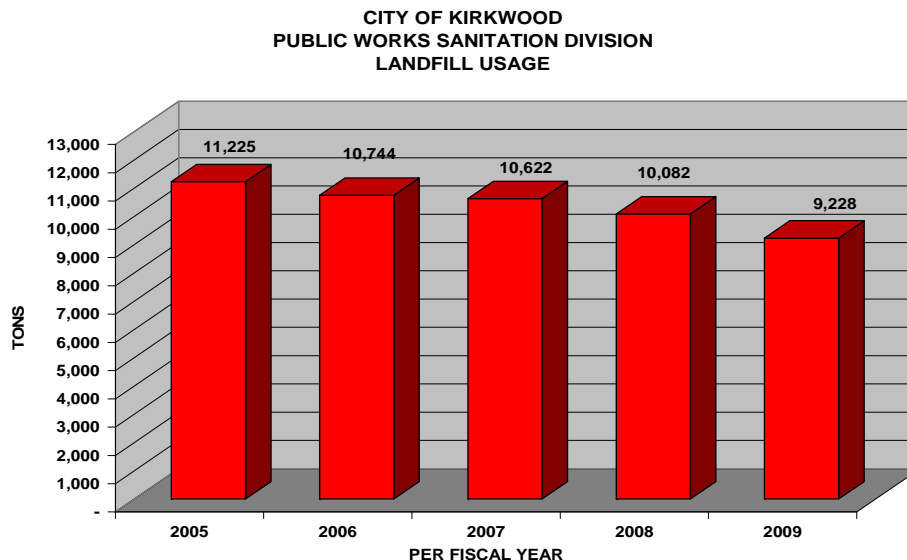
The Public Works Sanitation Division has identified the following performance measurements: Staffing, Landfill Usage, Disposal Costs, Yard Waste Bags Collected, Special Pickup Services provided, Recycling efforts, and Recycling expenses and revenues.

Staffing – The Sanitation Division has the following authorized staffing levels:

- 1 Director of Sanitation
- 1 Lead Driver
- 7 Drivers
- 6 Collectors
- 1.75 Collectors, part time (2 @35 hours per week)
- 2 Recycling Depository
- 0.67 Customer Service Worker (employee shared with Fleet Services)
- 17.42 TOTAL

Landfill Usage

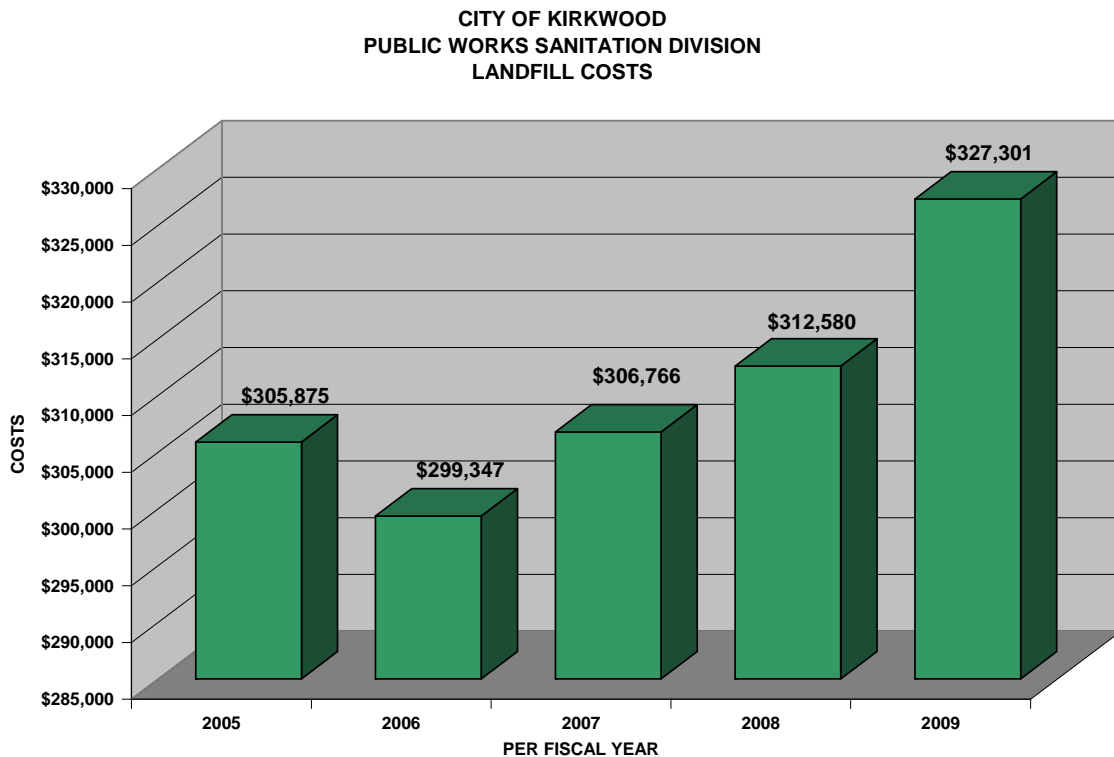
The amount of refuse in the Kirkwood solid waste stream has been relatively consistent for the last five years. The volume of refuse generated by Kirkwood residents is not expected to change significantly unless the City revises its collection system. It is anticipated the curbside recycling would reduce landfill usage in half.



City of Kirkwood Public Works Sanitation Division

Landfill Costs

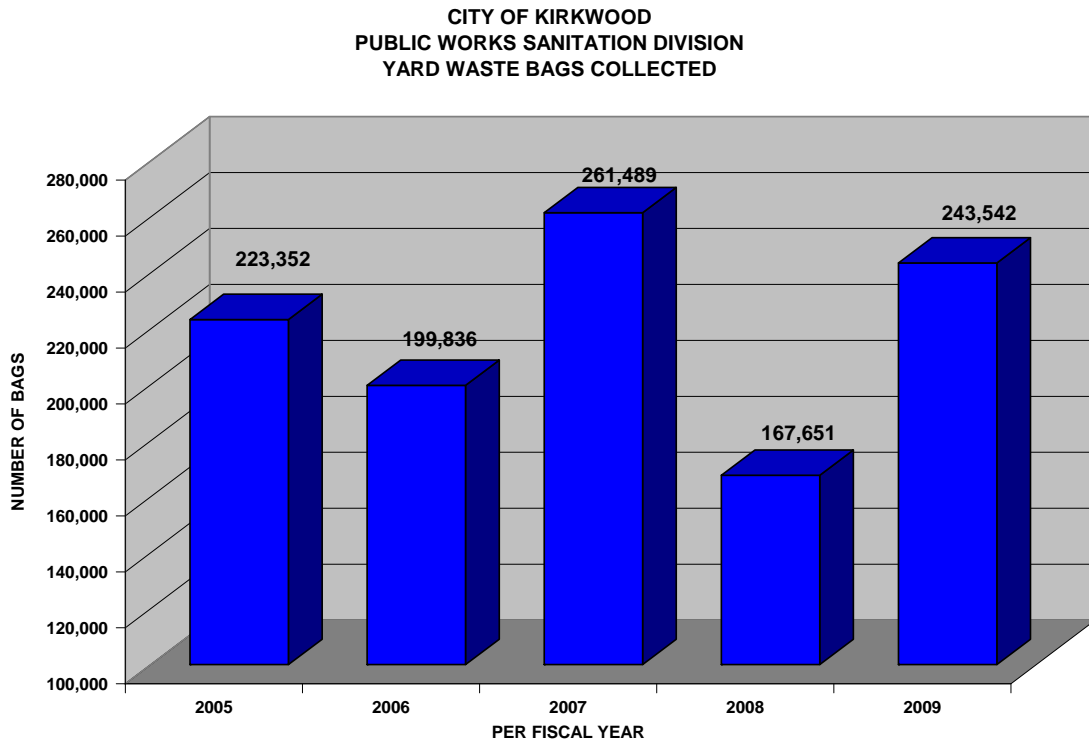
Disposal costs were increasing due to the limited landfill space in the St. Louis region. In 2004, the City entered into a long-term agreement to use the newly constructed Fred Weber Company transfer station in Peerless Park. On April 7, 2004, the Weber Transfer station became operational at the initial price of \$27 per ton. The previous landfill price had been \$36 per ton. The Weber-Kirkwood long-term agreement stabilizes the City's refuse disposal rate, and the present disposal rate is \$29.94 per ton plus environmental fees and a fuel surcharge per load.



City of Kirkwood Public Works Sanitation Division

Yard Waste Bags Collected

The Sanitation Division collects approximately 200,000 yard waste bags a year representing more than 7,000 cubic yards of material. However, due to heavy storms in FY07, more than 9,000 cubic yards of yard waste material were collected. Disposal costs for yard waste have been very stable at \$8.75/cubic yard since October 1996. The amount of bags collected per week varies widely by season: for example 9,836 bags were collected in one day on Monday, November 18, 2002, and 54,128 bags were collected in November, 2007. This often requires the Sanitation Division to work overtime hours into the late evening.

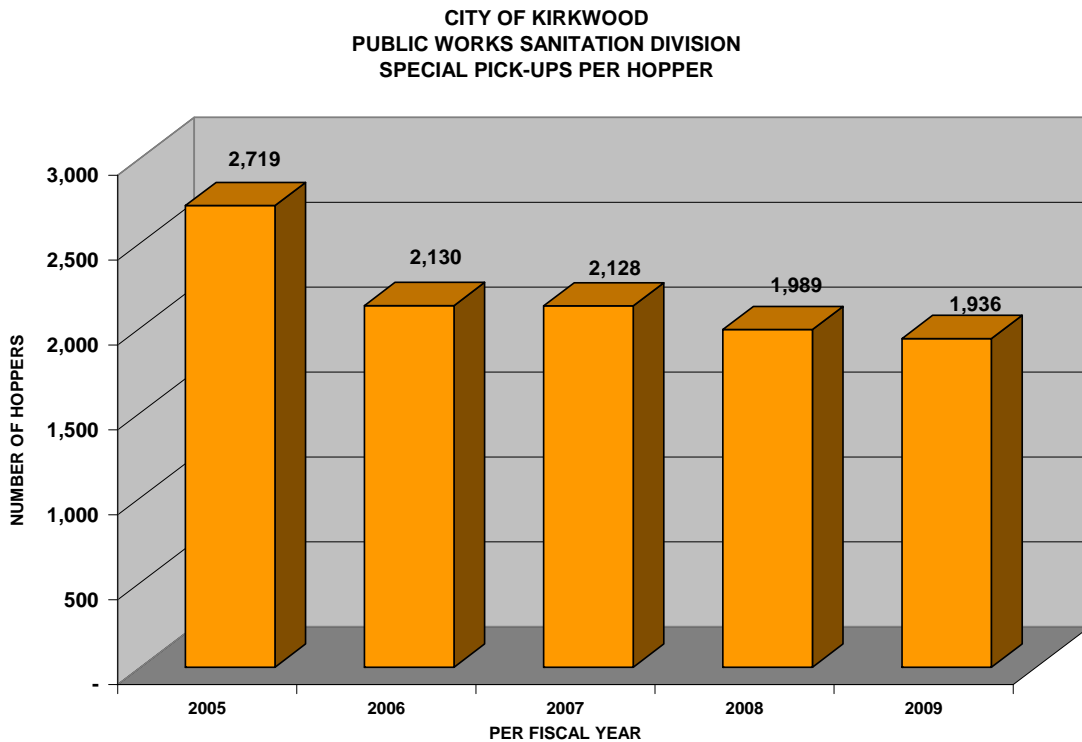


* FY07 - Several storms contributed to increase.

City of Kirkwood Public Works Sanitation Division

Special Pick-ups

Special pick up service is provided weekly to residents who request such service. Bulky items and large volumes of refuse are collected at a charge of \$20 per item or hopper load. Over 2,000 bulky items and hopper loads are collected each year. Items are separated at the Public Works yard for disposal according to State law. State law prohibits white goods and tires from being disposed of in a landfill.



City of Kirkwood Public Works Sanitation Division

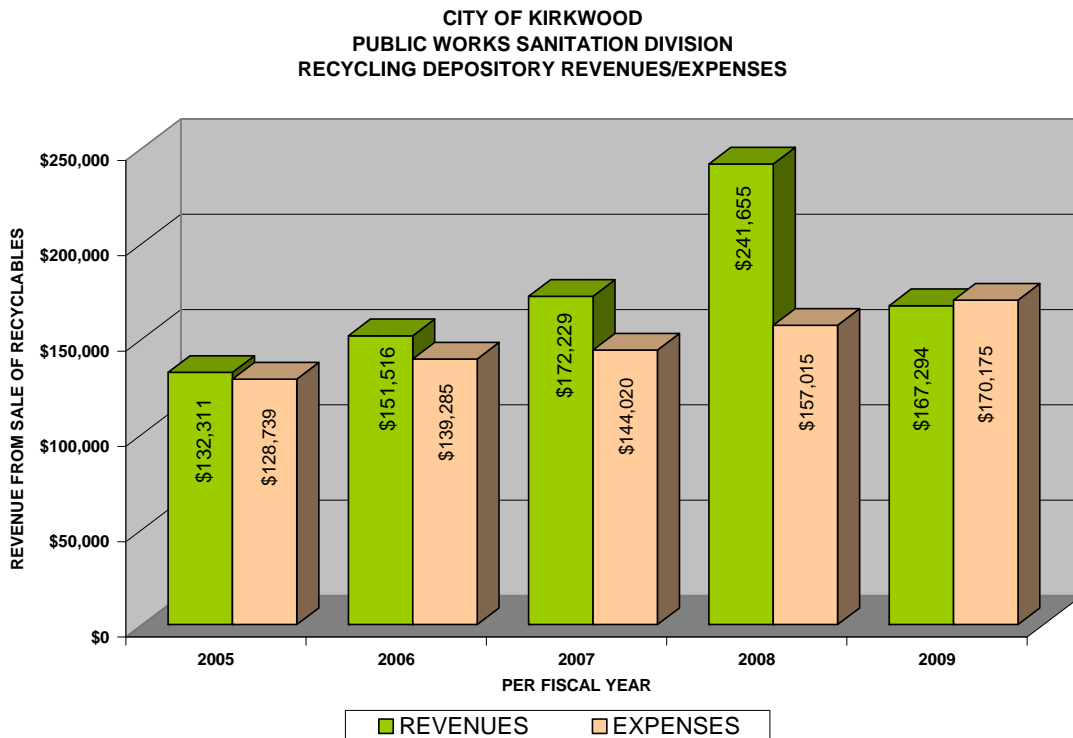
Recycling

The Sanitation Division is responsible for the operation of the Recycling Depository. The Depository is open 24 hours a day, 7 days a week. This is one of the longest running recycling drop-off programs in the State of Missouri, serving a significantly larger region than the City of Kirkwood. During the week of August 14 through August 21, 2009, the Police Department collected traffic data at the Recycling Depository. The average daily usage during that week was 511 vehicles. This is a significant drop since the last time a traffic study was conducted in 2001. The biggest difference has occurred during the last year with the implementation of St. Louis County's curbside recycling program, which started October, 2008. Since that time, recycling collection has dropped 30%. In FY09, approximately 3,100 tons of materials were collected at the depository for recycling.

| CITY OF KIRKWOOD | | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| PUBLIC WORKS SANITATION DIVISION | | | | | | | | | | | |
| FRANCIS SCHEIDEGGER RECYCLING DEPOSITORY HISTORY | | | | | | | | | | | |
| ITEM | FY99 | FY00 | FY01 | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 | FY09 |
| Glass | 205 | 267 | 430 | 351 | 250 | 196 | 245 | 371 | 622 | 697 | 582 |
| Newspaper | 2,014 | 1,500 | 1,342 | 1,207 | 1,164 | 1,140 | 1,133 | 921 | 917 | 896 | 795 |
| Cardboard | 694 | 729 | 724 | 754 | 765 | 867 | 863 | 830 | 834 | 829 | 700 |
| Aluminum Cans | 41 | 34 | 36 | 39 | 47 | 45 | 38 | 35 | 35 | 41 | 30 |
| Steel Cans ¹ | 55 | 54 | 53 | 55 | 59 | 56 | 57 | 58 | 54 | 60 | 51 |
| Magazines & Catalogs ² | 667 | 620 | 558 | 543 | 544 | 533 | 512 | 516 | 481 | 457 | 342 |
| Mixed Paper, Junk Mail and Flat Cardboard ³ | 458 | 507 | 535 | 554 | 577 | 591 | 619 | 587 | 561 | 575 | 441 |
| Plastic Bottles ¹ | 93 | 102 | 85 | 119 | 167 | 111 | 150 | 120 | 160 | 198 | 178 |
| Telephone Books ⁴ | | 24 | 116 | 98 | 84 | 84 | 84 | 84 | 84 | 84 | |
| Textiles ⁵ | | | 20 | 28 | 31 | 18 | 29 | 13 | 17 | 21 | 19 |
| TOTAL TONAGE | 4,227 | 3,837 | 3,899 | 3,748 | 3,688 | 3,641 | 3,730 | 3,535 | 3,765 | 3,858 | 3,138 |
| Estimated average weekly usage | 8,172 | 8,257 | | 10,290 | | | | | | | 3,576 |
| SIGNIFICANT EVENTS | | | | | | | | | | | |
| ¹ Collection started April 1995 for steel cans and plastic bottles | | | | | | | | | | | |
| ² Collection started September 1995 for magazines and catalogs | | | | | | | | | | | |
| ³ Collection started June 1995 for mixed paper, junk mail, and flat cardboard | | | | | | | | | | | |
| ⁴ Collection started December 2000. As of FY09, total included in newspaper | | | | | | | | | | | |
| ⁵ Collection started July 2001 | | | | | | | | | | | |
| NOTE: A 1995 survey determined that 75% of Kirkwood residents recycle at the Depository. | | | | | | | | | | | |
| A 1996 survey determined that recycling depository usage was about 48% Kirkwood residents. | | | | | | | | | | | |
| A 2002 survey determined that recycling depository usage was about 42% Kirkwood residents. | | | | | | | | | | | |
| A 2002 survey determined that 80% of Kirkwood residents recycle at the Depository. | | | | | | | | | | | |

City of Kirkwood Public Works Sanitation Division

The Public Works Department maintains detailed records of the costs of operation of the Recycling Depository. In FY04, the Sanitation budget includes a separate cost center for recycling operations to capture most administrative costs. The revenues in the chart do not include disposal cost avoidance, which is estimated at more than \$49,000 annually. Also, grant revenues, which have totaled over a quarter million dollars, are not shown on the chart. The revenues shown on the chart below represent the money raised from the sale of recyclables. The recyclable market fluctuates greatly and is now increasing after a few years at an all time low. Revenues from the sale of recyclables increased in FY03, and this trend is expected to continue in the future.



Note: Revenues do not include grants (see next page) or landfill diversion costs (estimated at \$41,000).

City of Kirkwood Public Works Sanitation Division

The Public Works Department has obtained numerous grants from the St. Louis-Jefferson Solid Waste Management District, Missouri Department of Natural Resources, and St. Louis County Department of Health to encourage recycling efforts in the City as shown on the following chart:

RECYCLING GRANTS

| FISCAL YEAR | ITEM | GRANT AMOUNT | FROM |
|------------------------|-------------------------------------|-------------------------|-------------|
| 1994 | Household hazardous waste collectio | \$75,739 | SLJSWMD |
| 1996 | Canopy at Recycling Depository | \$37,500 | DNR |
| 1996 | Yard waste equipment rental | \$2,430 | DOH |
| 1997 | Solid waste recovery education | \$9,035 | SLJSWMD |
| 1997 | Yard waste equipment rental | \$1,911 | DOH |
| 1998 | Part-time worker at Depository | \$13,500 | DOH |
| 1998 | Baler (for plastic) at Depository | \$54,000 | SLJSWMD |
| 1998 | Yard waste equipment rental | \$3,003 | DOH |
| 1999 | Compactor (paper) at Depository | \$18,000 | SLJSWMD |
| 2000 | Part-time worker at Depository | \$14,560 | DOH |
| 2001 | Expansion of Depository | \$108,000 | SLJSWMD |
| 2002 | New containers for Depository | \$9,180 | SLJSWMD |
| 2004 | Workers and hauling at Depository | \$55,584 | SLJSWMD |
| 2004 | PAYT study/recycling study | \$20,000 | DOH |
| | | \$25,000 | SLJSWMD |
| 2005 | Workers and hauling at Depository | \$71,000 | SLJSWMD |
| 2006 | Workers and hauling at Depository | \$72,699 | SLJSWMD |
| 2007 | Workers and hauling at Depository | \$65,000 | SLJSWMD |
| 2008 | Workers and hauling at Depository | \$70,000 | SLJSWMD |
| 2009 | Baler (for plastic) at Depository | \$50,000 | SLJSWMD |

SLJSWMD = St. Louis-Jefferson Solid Waste Management District

DNR = Department of Natural Resources

DOH = St. Louis County Department of Health