

# TOMPKINS COUNTY SOLID WASTE MANAGEMENT DIVISION

2007 ANNUAL REPORT



TOMPKINS COUNTY  
RECYCLING AND  
SOLID WASTE CENTER



*Remember: Reduce,  
Reuse, Recycle and Rebuy*

The Mission of the Solid Waste Management Division is to manage the solid waste of Tompkins County in a manner that is environmentally sound, cost-effective, socially responsible and safe. This will be accomplished through coordinated administrative, operational, and educational projects in waste reduction, reuse, recycling, composting and disposal.

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Tompkins County  
Recycling &  
Solid Waste Center

**TOMPKINS COUNTY SOLID WASTE MANAGEMENT DIVISION**  
**2007 Annual Report**  
**SOLID WASTE MANAGER'S REPORT**

During 2007, the Solid Waste Management Division continued to provide reliable recycling and solid waste services to Tompkins County residents and businesses. This year's revenues from the sale of recyclables exceeded \$1 million. The County marketed 15,854 tons of recyclables and handled 24,099 tons of waste. Approximately 156,000 vehicles used the Recycling and Solid Waste Center in 2007.

In light of the high degree of financial stability, we were able to continue funding several initiatives to reduce and reuse waste. These programs include Cooperative Extension's food waste composting for residents, including apartment dwellers and Cayuga Compost's off-site composting program for small restaurants; Historic Ithaca's building materials reuse program (Significant Elements); the City of Ithaca's computer reuse program (Computer All-Stars), and the Sciencenter's Reinvention Station. In addition, six well-attended Household Hazardous Waste collection events were held at the Recycling and Solid Waste Center.

During the year, we were also able to support new programs and expand existing efforts. This includes coordinating a Finger Lakes Environmentally Preferred Procurement Consortium for institutions, municipalities, and other local entities, and the further development of the Finger Lakes Buy Green website. We also worked with local reuse organizations on the planning of a Finger Lakes Reuse Center to divert materials from the waste stream and make them available to the community.

Our public information efforts continued to expand in 2007. We participated in many local events and visited schools to provide education about reduce, reuse, recycle and rebuy (4R's), educating approximately 3,000 adults and 8,000 students. Several hundred visitors attended our America Recycle's Day event at the Pyramid Mall. Our staff also developed the lesson plans that will be distributed to our area schools in 2007.

At the end of the year, the Tompkins County Legislature adopted a Waste Reduction and Resource Management policy to minimize waste in Tompkins County. As a result, the Division has expanded its' Rebusiness Program to help businesses and County departments reduce waste and recycle more. In 2008, the County plans to expand its food waste collection and composting program, conduct an analysis for single stream recycling in Tompkins County, and further develop plans for the Finger Lakes Reuse Center. All of these programs were included in our 20 year Solid Waste Management Plan approved by the County Legislature in 1995.

Barbara Eckstrom  
Solid Waste Manager

# **SOLID WASTE ORGANIZATION**

# 2007 Solid Waste Management Division's Organization

## **Solid Waste Manager**

Barbara Eckstrom

### **Communication & Administration Coordinator**

Linnett Short

### **Asst. Solid Waste Manager**

Ken Thompson

### **Recycling Supervisor**

Tom Richardson

### **Secretary**

Margo Umholtz

### **Solid Waste Enforcement Officer**

Paul Cowles

### **Recycling Specialist**

Leo Riley

### **Secretary**

Ceil Grier

### **Principal Account Clerk/Typist**

Jackie Maloney

### **Asst. Recycling Specialist**

Kat McCarthy

### **Receptionist**

Marc Catone

### **Solid Waste Asst.**

Priscilla Bingham

### **Project Assistant**

Amanda Block

### **Project Assistant**

Stephanie Egan

### **Weigh Scale Operator**

Debra Barnard

### **Project Assistant**

Hannah Amsili

### **Senior Acct. Clerk Typist**

Mike Armstrong

# PROGRAM HIGHLIGHTS

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## Disposal

The County continued to export waste to Seneca Meadows landfill in 2007 through our current contract with We Care, Inc. located in Waterloo, New York. In 2007, 23,658 tons of waste was received at the Recycling and Solid Waste Center compared to the 2006 tonnage of 23,641.

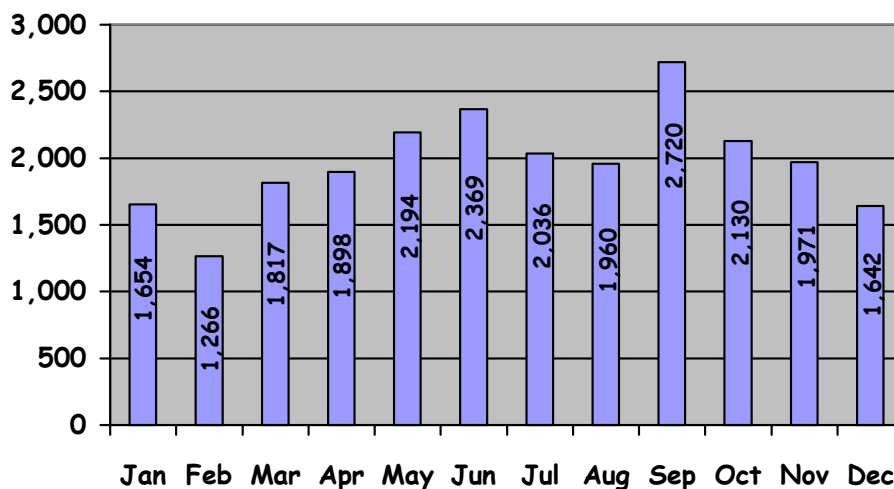
Residents have several methods to dispose of their garbage. These options include punch cards, coupons and weighing in and out at the weigh station. The type of vehicle a resident brings to the facility determines, in part, the option they should choose.

Smaller vehicles can no longer use the weigh scales. Trucks and larger vehicles may still use the weigh station and are charged on a basis of weight and a tipping fee. Smaller vehicles are required to prepay for their garbage using either a punch card (\$2 per bag/5 punches per card) or disposal coupon (\$5/\$10 per trip). These customers bypass the scale and drive directly to the Drop-Off-Area where an attendant will take their coupon(s) or punch their punch card.

In 2007, there were 26,341 coupons and 5,134 punch cards used. The weigh station traffic decreased from 73,649 transactions in 2006 to 65,782 transactions in 2007.

All disposal services and contracts are managed by the Recycling Supervisor.

**2007 Solid Waste Garbage Tonnages**  
**23,658 Total Tons**



## Scalehouse

The staff associated with scalehouse operations are Debra Barnard, Weighmaster, Michael Armstrong, Senior Account Clerk Typist, and Priscilla Bingham, Solid Waste Assistant, with supervision provided by the Assistant Solid Waste Manager. Although recycling customers may bypass the scalehouse, it is the first stop for customers disposing of garbage at the Recycling and Solid Waste Center. The scalehouse operates Monday through Saturday, from 7 am to 3:30 pm, 59.5 hours per week. There are only 6 days per year that the scale is closed due to holiday. There is one primary weighmaster, two fill-in weighmasters and several employees that are able to work in the scalehouse as needed, in addition to their regular duties. Usually only one weighmaster is required to provide for the needs of our customers. However, on Saturdays and other high volume times, two weighmasters fill in as necessary to facilitate quick access in and out of the facility. All scalehouse staff are fully trained and licensed.

For each scale transaction, the weighmaster serves the customer twice (inbound and outbound). In 2007, there were 765,782 scalehouse transactions. 42,213 of these were for incoming waste, 16,410 special fee (permits/punchcards/coupons) transactions, 3,509 curbside or other recycling transactions and 3,650 outbound transactions, (i.e. garbage bound for disposal at Seneca Meadows Landfill and processed recyclables). Please see the recycling section of Annual Report for more detailed recycling material information.

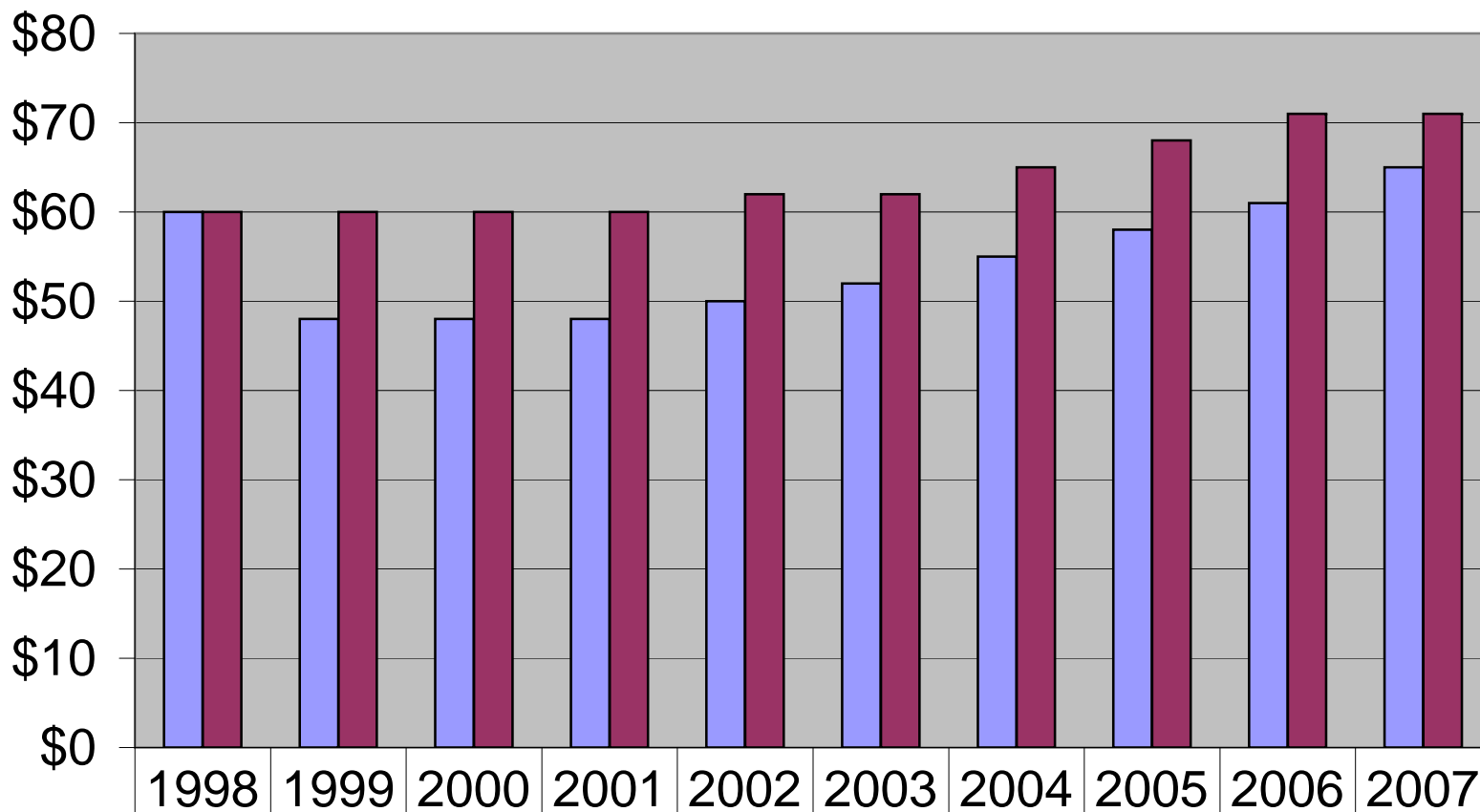
Operations at the scalehouse include, but are not limited to: obtaining and recording vehicle weights, entering permit and load information into the computer, answering questions and directing vehicles, selling one day permits and punchcards, monitoring uncovered loads, obtaining payment, issuing receipts, generating daily reports and daily accounting of the scalehouse receivable.

In addition to the commercial and residential customers, the scalehouse processes all transactions in relation to the waste leaving the facility, curbside recycling , hauler recycling, and outbound recycling loads.

Approved commercial accounts are allowed to charge their disposal fee. At the beginning of each month, invoices are generated for the previous months' charge transactions. In 2007, the total disposal revenue generated was \$1,783,073. Of this total, \$615,195 of the revenue was from charge accounts, \$592,527 was paid in cash and \$575,350 was paid by check. Of the total disposal revenue \$137,340 was for sale of disposal coupons and \$62,070 for punch card purchases



## Disposal Rate History

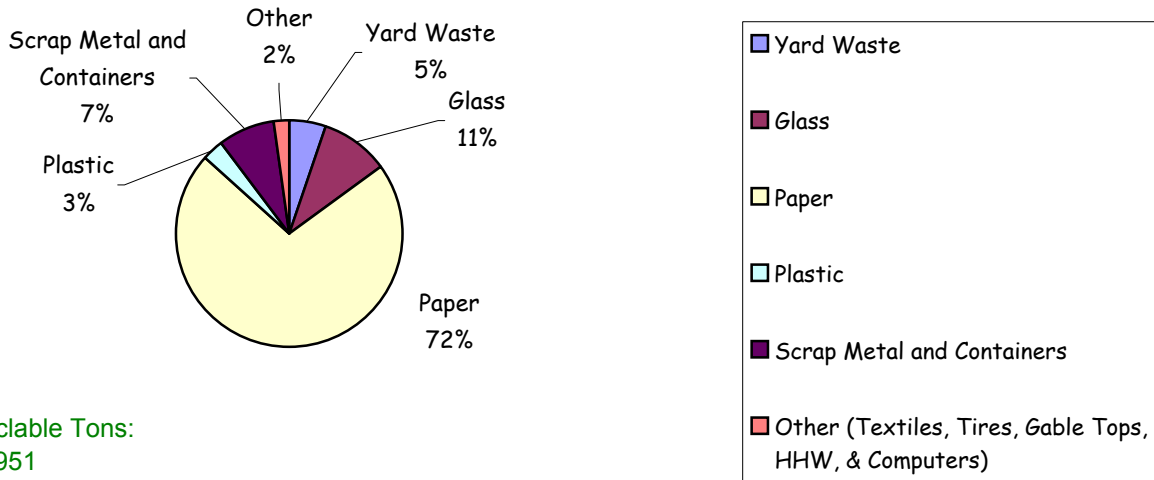


■ Hauler	\$60	\$48	\$48	\$48	\$50	\$52	\$55	\$58	\$61	\$65
■ Residential	\$60	\$60	\$60	\$60	\$62	\$62	\$65	\$68	\$71	\$71

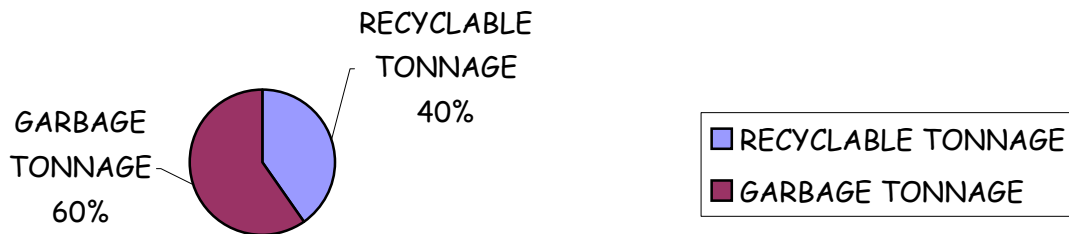
## 2006 SOLID WASTE TONNAGE

RECYCLABLE MATERIAL	TONS	PERCENT	RECYCLABLE TONNAGE	TONS	PERCENT
Yard Waste	844	5%	<b>RECYCLABLE TONNAGE</b>	<b>15,788</b>	<b>40%</b>
Glass	1,524	10%		<b>15,788</b>	<b>40%</b>
Paper	11,310	72%	<b>GARBAGE TONNAGE</b>	<b>23,528</b>	<b>60%</b>
Plastic	493	3%		<b>23,528</b>	<b>60%</b>
Scrap Metal and Containers	1,286	8%	<b>TOTAL TONNAGE</b>	<b>39,316</b>	<b>100%</b>
Other (Textiles, Tires, Gable Tops, HHW & Computers)	331	2%		<b>39,316</b>	<b>100%</b>
<b>TOTAL</b>				<b>15,788</b>	<b>100%</b>

### 2007 TOMPKINS COUNTY RECYCLABLE MATERIALS



### 2006 TOMPKINS COUNTY RECYCLABLES AND GARBAGE TONNAGE



## 2006-2007 Recycling Data

(Includes Out of County Recyclables)

	<u>2006</u>	<u>2007</u>
Marketable Recycling Tonnage:	14,697	14,093
Total County Revenue:	\$716,397	\$1,031,044
Processing Cost:	\$660,778	\$651,312



## 2007 Recycling Tonnages by Materials

(Tompkins County Recyclables only)

<u>Materials</u>	<u>Tons</u>
Mixed Waste Paper	691
Hard Pack	2,210
Mixed Office Waste	772
Old Newspaper	2,528
Old Corrugated Cardboard	4,508
Aggregate Glass	1,603
HDPE Colored - Plastic (#2)	89
HDPE Natural - Plastic (#2)	131
PET Plastic (#1)	240
Ferrous Containers	387
Aluminum	14
Gable Tops	36
Scrap Metal	710
Sub-Total Marketable Recyclables	13,919
HHW	38
Computers	189
Tires	84
Yard Waste	719
Textiles	<u>11</u>
Grand Total Recyclables	14,951

## Tompkins County "ONLY" Recyclable Materials

	2004	2005	2006	2007
MWP	1,199	1,174	1,433	691
Hard Pack	1,959	2,329	2,423	2,210
MOW	1,018	741	688	772
ONP	3,675	3,225	2,903	2,528
OCC	4,416	4,039	3,863	4,508
Aggregate Glass	1,365	1,647	1,524	1,603
Amber Glass	24	23		
Flint Glass	292	67		
HDPE Colored	136	164	32	89
HDPE Natural	174	161	436	131
PET	188	190	25	240
Ferrous Containers	458	431	401	387
Aluminum	18	15	35	14
Gable Tops	35	41	18	36
Scrap Metal	1,011	1,060	850	710
Sub-Total Recyclables	15,968	15,307	14,631	13,919
HHW		31	46	38
Electronics	98	86	167	180
Tires	85	60	84	84
Yard Waste	777	677	844	719
Textiles	9	8	16	11
Grand Total Recyclables	16,937	16,169	15,788	14,951

ONP - Old Newsprint

MWP - Mixed Waste Paper

OCC - Old Corrugated Cardboard

MOW - Mixed Office Waste

**Tompkins County**  
**Average Annual Recyclable Materials Revenue**  
**(in tons)**

	2003	2004	2005	2006	2007
<b>Hard Pack</b>	46	60	45	43	83
<b>MWP</b>	43	51	41	40	67
<b>ONP</b>	65	81	69	73	101
<b>OCC</b>	62	85	70	72	116
<b>MOW</b>	113	129	100	121	189
<b>PET</b>	206	340	341	352	319
<b>HDPE-Nat</b>	337	454	660	416	687
<b>HDPE-Col</b>	235	305	465	610	475
<b>Scrap Metal</b>	29	29	54	52	50
<b>Ferrous Containers</b>	70	176	102	122	147
<b>Aluminum</b>	915	1160	1400	1400	1440
<b>Aggregate Glass</b>	(16)	(13)	(13)	(14)	(14)
<b>Gable Tops</b>	40	43	40	40	78
( ) indicate a cost					

**HPP** - Hard Pack Paper is a combination of **OCC** and **Mixed Paper**

**MWP** - Mixed Waste Paper

**ONP** - Old Newsprint

**OCC**- Old Corrugated Cardboard

**MOW** - Mixed Office Waste

**PET** - Polyethylene Terephthalate

**HDPE-Nat** - Milk jugs

**HDPE-Col** - Colored Plastic Jugs



2007 Recycling and Solid Waste Center Vehicle Count

Month	Scalehouse Traffic	Drop Off Center	Tip Floor Traffic	Total Vehicles
January	3,609	8,361	2,576	10,937
February	2,786	7,287	1,847	9,134
March	4,138	9,220	3,066	12,286
April	4,247	9,226	3,376	12,602
May	4,655	10,758	4,253	15,011
June	5,043	10,901	4,590	15,491
July	4,815	10,549	4,417	14,966
August	4,699	10,362	3,629	13,991
September	4,270	8,981	3,236	12,217
October	4,573	9,365	3,527	12,892
November	3,885	9,783	3,137	12,920
December	3,459	10,917	2,596	13,513
<i>Totals</i>	<i>50,179</i>	<i>115,710</i>	<i>40,250</i>	<i>155,960</i>

Note: Total Vehicles 2007 - 155,960

*\*The 'Total' columns are calculated by adding the Drop Off and Tip figures. The Scale figures are already included in the Drop Off and Tip figures.*

## Reuse & Waste Reduction

During 2007 the Solid Waste Management Division continued support for partnerships with several innovative reuse programs. While some reuse programs do not divert a high tonnage of materials, these efforts have a positive impact on the community and the environment.

### Home Composting with Cornell Cooperative Extension

One of the County's oldest partnerships has been the funding of the Home Composting Program in cooperation with Cornell Cooperative Extension. This program continues to provide ongoing community outreach and education. Cooperative Extension estimates that approximately 3,000 tons of food waste and 3,400 tons of yard waste have been diverted from disposal in Tompkins County in 2007 through home composting efforts. Program management is supervised by the Recycling Supervisor.



## Food Waste & Yard Waste Composting

Tompkins County currently contracts with Cayuga Compost to process all yard waste received at the Recycling and Solid Waste Center which is then delivered to the Cayuga Compost site. The total tons of yard waste received by the County in 2007 was 719 tons.

The County also partnered with Cayuga Compost on a 12-month continued pilot food waste collection program partially funded by the County. The food waste was collected from businesses in Tompkins County by Cayuga Compost and incorporated into their composting process that also included County yard waste. During a one-year pilot collection program, approximately 500 tons of food waste was diverted from disposal.

The finished compost produced by Cayuga Compost is sold in bags at local retail outlets and in bulk at their facility. The compost is also utilized in special-blended products as specified by landscapers, wineries and others. The pilot food waste collection program will expand in 2008 and will include more businesses and schools, as well as institutional settings and public events.



## ReBusiness Partners

During 2007, Tompkins County Solid Waste Management Division continued the ReBusiness Partners program to assist local businesses and organizations with reducing waste, increasing recycling efforts, and adopting green purchasing practices. Throughout the year, the program expanded beyond working with offices to include the retail sector, schools, and nonprofits. Participants benefit from this program by receiving free technical assistance including a waste assessment, free desk side recycling bins, free signage, and public recognition for their efforts to promote a sustainable community. Rebusiness Partners reduce the amount of trash that is being landfilled, save energy and natural resources, and comply with State and Local recycling laws. This program is projected to continue through 2008 and expand to restaurants and hotels.

To become a ReBusiness Partner, businesses must:

- Have a recycling program set-up to effectively collect all mandatory recyclables and
- Demonstrate at least 3 activities in the areas of waste reduction, reuse or green purchasing (rebuy).



## Finger Lakes Buy Green

After working with Sustainable Tompkins in 2006 to create Finger Lakes Buy Green website, Tompkins County Solid Waste Management Division continued to oversee and expand the website the following year. This regional green purchasing resource is designed as an informational tool for residents, businesses, and institutions to learn more about buying green. The website features text about why and how to buy green, useful links, and a green glossary of terms, in addition to listing a sampling of environmentally preferable products that are available at local stores.

Products featured on the website are organized into four different supply categories: Office, Cleaning, Yard and Garden, and Maintenance. After its initial launch with Office Supplies in 2006, Tompkins County Solid Waste added the Cleaning and Yard and Garden sector, in 2007 and expect to complete the Maintenance sector next year.

To learn more about buying green, please visit:  
[www.fingerlakesbuygreen.org](http://www.fingerlakesbuygreen.org).



## SIGNIFICANT ELEMENTS OPERATIONS

Significant Elements, Historic Ithaca's used building materials warehouse completed another successful year. Although the building has been operating at its maximum capacity, the quality of materials that can be found in stock has continued to rise, and therefore sales have increased, along with the quantity of material being sold.

Free Friday, a monthly event in which materials are given away to the public at no cost, has proven to be very successful, with thousands of dollars of materials being given back to the community, and creating room on the warehouse floor for more incoming material to be displayed. Donations continued to flow in daily, with some large salvage jobs filling up the loading dock at a rapid rate.

### *Sales Growth, Donations, and Diverted Resources*

<b>Year</b>	<b>Gross Sales</b>	<b>Donations (Est. Resale Value)</b>	<b>Estimated Tons</b>	<b>Annual Visitors</b>
<b>2000</b>	\$5,594	\$12,070	8.5	n/a
<b>2001</b>	\$16,431	\$24,000	18	1,500
<b>2002</b>	\$26,293	\$45,000	33	3,153
<b>2003</b>	\$54,960	\$88,000	65	5,071
<b>2004</b>	\$83,598	\$85,000	70	7,304
<b>2005</b>	\$68,821	\$58,000	55	7,115
<b>2006</b>	\$88,679	\$94,000	58	6,824
<b>2007</b>	\$93,159	\$94,000	76	6,246

Significant Elements successfully worked with Cornell University in the salvage of materials from three of its dormitories that were demolished as part of the West End Initiative. Volunteers were gathered and many thousands of dollars of valuable materials, including doors, bulletin boards, mirrors, hardware, and furniture were salvaged. Several tons of brick were salvaged as well, and marketed to the public as part of a "Community Brick Pick" at the opening day of the Ithaca Farmers Market. Over 14 tons of brick were diverted from the waste stream in one day! Motherplants, a green roof nursery, hauled away the remaining mortar and debris from the event to be ground up and used as a growing medium for their green roof installations. Thanks to Cornell University's Sustainability Initiative for helping to make this happen!

## A NEW REUSE CENTER

In an effort to increase that number exponentially as part of its 20 Year Solid Waste Management Plan, a new Reuse Center is being planned by many members of the community, including the leadership at Significant Elements. Finger Lakes ReUse, Inc. and its new ReUse Center will provide an expansion opportunity for existing non-profit reuse programs, and will have independent non-profit status. Non-profit reuse programs will have an opportunity to partner with the ReUse Center, and continue to provide services and benefit from sales of materials to the community, while being strengthened by the efficiency and economy of scale being gathered under one roof.

## PARTNERSHIP with TOMPKINS COUNTY

Significant Elements (SE) has been instrumental in the planning of the expanded ReUse Center. The SE program has evolved beyond its original mission to preserve quality architecturally significant materials. Nearly 400 tons, including architectural salvage, building materials, appliances, furniture, and household goods, have been diverted as part of its partnership with Tompkins County Solid Waste since 2001.

## DECONSTRUCTION SERVICES

In January 2007, Diane Cohen participated in a Deconstruction Training sponsored by the Building Materials Reuse Association and the US Environmental Protection Agency (EPA), in order to further advance the deconstruction industry, and to help the EPA develop its disaster mitigation efforts. Two houses in Biloxi, Mississippi that had been damaged by Hurricane Katrina were selected for the project. Diane worked with both expert and beginner volunteers from all over the country to learn about the safety and skills involved in deconstruction.



Deconstruction is the safe and environmental practice of carefully disassembling buildings by hand, as an alternative to traditional demolition. In December 2007, with tremendous support from Cornell Cooperative Extension of Tompkins County, a grant from the Appalachian Regional Commission was awarded to Finger Lakes ReUse, Inc. to support deconstruction services beginning in Spring 2009. Deconstruction programs around the country have reported the ability to divert up to 90% of the materials found in an average house from the landfills!

The 2007 ReUse Center Board of Directors and Volunteer Workgroups:

### **2007 BOARD OF DIRECTORS**

Mark Darling, *Program Coordinator, Recycling & Resource Management, Ithaca College*  
Barbara Eckstrom, *Solid Waste Manager, Tompkins County Solid Waste Management Division*  
Tania Schusler, *Core Faculty, Environmental Studies Dept., Antioch University New England*

#### **REUSE CENTER OPERATIONS WORKGROUP**

Diane Cohen, *Significant Elements*  
Mark Darling, *Ithaca College*  
Barbara Eckstrom, *Tompkins County Solid Waste Management Division*  
Jan Norman, *Silk Oak*  
Pedro Perez, *Cornell University*  
Tom Richardson, *Tompkins County Solid Waste Management Division*  
Leo Riley, *Tompkins County Solid Waste Management Division*  
Marty Schreiber, *Ithaca Youth Bureau Computer All Stars*  
Jonathan Wood, *Tompkins County Attorney*

#### **REUSE CENTER SITING WORKGROUP**

Sarah Adams, *V. Romanoff & Associates*  
Claudia Brenner, *Architect*  
Diane Cohen, *Significant Elements*  
Lynn Leopold, *Student Reuse Project*  
Mark Sullivan, *Image Now*  
Ken Thompson, *Tompkins County Solid Waste Management Division*

#### **REUSE CENTER EDUCATION AND OUTREACH WORKGROUP**

Lynn Leopold, *Student Reuse Project*  
Kat McCarthy, *Tompkins County Solid Waste Management Division*  
David Newman, *Dept of Planning, Design, and Construction, Cornell University*  
Jan Norman, *Silk Oak*  
Valorie Rockney, *EcoVillage at Ithaca*  
Tania Schusler, *Cornell Cooperative Extension of Tompkins County*  
Marty Schreiber, *Ithaca Youth Bureau Computer All Stars*  
Linnett Short, *Tompkins County Solid Waste Management Division*

#### **REUSE CENTER DEVELOPMENT WORKGROUP**

Diane Cohen, *Significant Elements*  
Barbara Dayton, *Financial Manager, The Advocacy Center*  
Steve Mount, *Alumni Affairs, Cornell University*  
Tania Schusler, *Cornell Cooperative Extension of Tompkins County*

## Sciencenter Reuse Exhibit

The Solid Waste Division is partnering with the Sciencenter for continued sponsorship of the museum's Reinvention Station. The Reinvention Station features exhibits on waste reduction and recycling, a reading area, and a designated project space to encourage creative reuse of donated materials. The County provides re-usable materials for the station and funding for staff support. The Sciencenter offers guided craft activities and workshops for families throughout the year.



## Reuse Directory

The Solid Waste Division also promotes reuse activities through the publication of the Re-Directory that provides options for reuse and is updated on a bi-annual basis. The Solid Waste Division distributed over 5,000 copies of the re-directory to local residents, businesses and institutions. The Solid Waste Division also participates in the Upstate Material Exchange a central New York guide for re-useable materials. All of our reuse guides are handed out at local events as well as to businesses and residents that request them.

## Babbage's Basement

Babbage's Basement is a volunteer organization that accepts old computers and peripherals, which are screened, evaluated and refurbished. The refurbished systems are made available to the public for a suggested donation. All funds generated by this program are donated to the Sciencenter. In addition to the computer reuse program, this organization manages Einstein's Attic, which is a program that accepts used electronic equipment and laboratory supplies and equipment.



## Other Reuse Programs in Tompkins County

The Dump and Run Project is a program managed by a volunteer organization that accepts all re-useable items, primarily from university students. There is an annual sale held in the month of August of all items collected. Proceeds from the sale are donated to charities.

## Computer Reuse with Computer All-Stars

During 2007 the County funded the Computer All-Stars program. This program provides training to County youth in computer maintenance and repair. Eligible participants, (75 families in 2007) ended the program with a home computer. This program is managed by various Solid Waste Staff.

### 2005-2007 Distribution of Computers from Computer All-Stars

<u>Municipality</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>
	<u>Number of Computers</u>		
City of Ithaca	39	33	31
Town of Ithaca	8	23	20
Newfield	7	9	8
Town of Lansing	1	8	7
Town of Enfield	6	4	18
Town of Groton	1	4	1
Town of Dryden	8	7	3
Village of Groton	2	1	3
Cayuga Heights	0	1	0
Town of Danby	2	2	1
Village of Freeville	1	3	2
<b>Total</b>	<b>75</b>	<b>95</b>	<b>94</b>



## Household Hazardous Waste

The County provided six Household Hazardous Waste collection events at the Depot in 2007 for household and commercial generators. A total of 799 households and 5 businesses dropped off nearly 200 tons of HHW in 2007.

The recycled paint program continued in 2007. A total of 90 gallons of re-useable low luster latex paint was salvaged from the collection events. The paint will be repackaged, labeled for reuse and sold at Significant Elements' retail store.

Thirty-five tons of paints, pesticides and other hazardous liquids, almost 16 tons of fluorescent bulbs and batteries, and 180 tons of electronic equipment including 46 tons of CRT's, were all collected through Household Hazardous Waste program efforts. The Solid Waste Enforcement Officer provides day-to-day management.



## OLD LANDFILLS

### **Leachate Management 2007**

The County is required by New York State and Federal law to provide post-closure monitoring and maintenance at the Hillview and Caswell Road facilities.

The Hillview facility operated from 1970-1992. Capping activities were conducted in 3-phases. Phase I occurred in 1989, Phase II in 1992-93 and Phase III in 1996. In total over 35 acres of landfill capping was installed during the 3 phases. The cost to complete capping activities at Hillview are in excess of 6 million dollars. The landfill cap at Hillview consists of 3-1/2 feet of constructed said materials: 1 foot gas vent material, 2 feet barrier protection, 1/2 foot top soil and a 40 millimeter geo-membrane moisture layer.

The Caswell Road facility closed in 1985 and capping occurred during 1986-87. Approximately 32 acres of landfill cap were constructed at a cost of approximately 4 million dollars. Capping at Caswell is composed of 18-inches of clay and 6-inches of topsoil.

The monitoring network at Hillview is comprised of 32 sites. At Caswell the monitoring consists of 18 monitoring points.

The largest post-closure expense at the landfills is leachate management. Leachate is collected at both facilities in a perimeter collection system. The leachate is then conveyed to on-site storage tanks. A private trucking company under contract to the County services the leachate tanks.

The leachate is transported to the Ithaca Area Wastewater Treatment Plant for proper treatment. Hauling costs currently are \$28.55/1000 gals and treatment costs are \$6.00/1000 gals. In 2006 expenses for this service totaled \$62,000 compared to \$42,000 for 2007.



## Caswell Road Landfill 2007

Phase I of the Caswell Landfill management project involved modifications to the leachate collection system and landfill cap. These modifications reduced leachate generation, resulting in lower leachate volumes at the facility. The reason for this reduction is that less surface water and storm water is infiltrating into the landfill. This reduction is the reason for the significant decrease in total volume. These volume reductions save the County approximately \$80,000 annually.

Phase II of this study scheduled to begin in mid 2008, will investigate various options to manage the leachate captured. Currently leachate is pumped onto tractor-trailer tanks and trucked to the Ithaca Wastewater Treatment Plant. Options to evaluate include filtering technologies, on-site wetland treatment, as well as conventional on-site treatment (i.e. package plant). This work will be conducted in 2008-2009.



## Post-Closure Maintenance

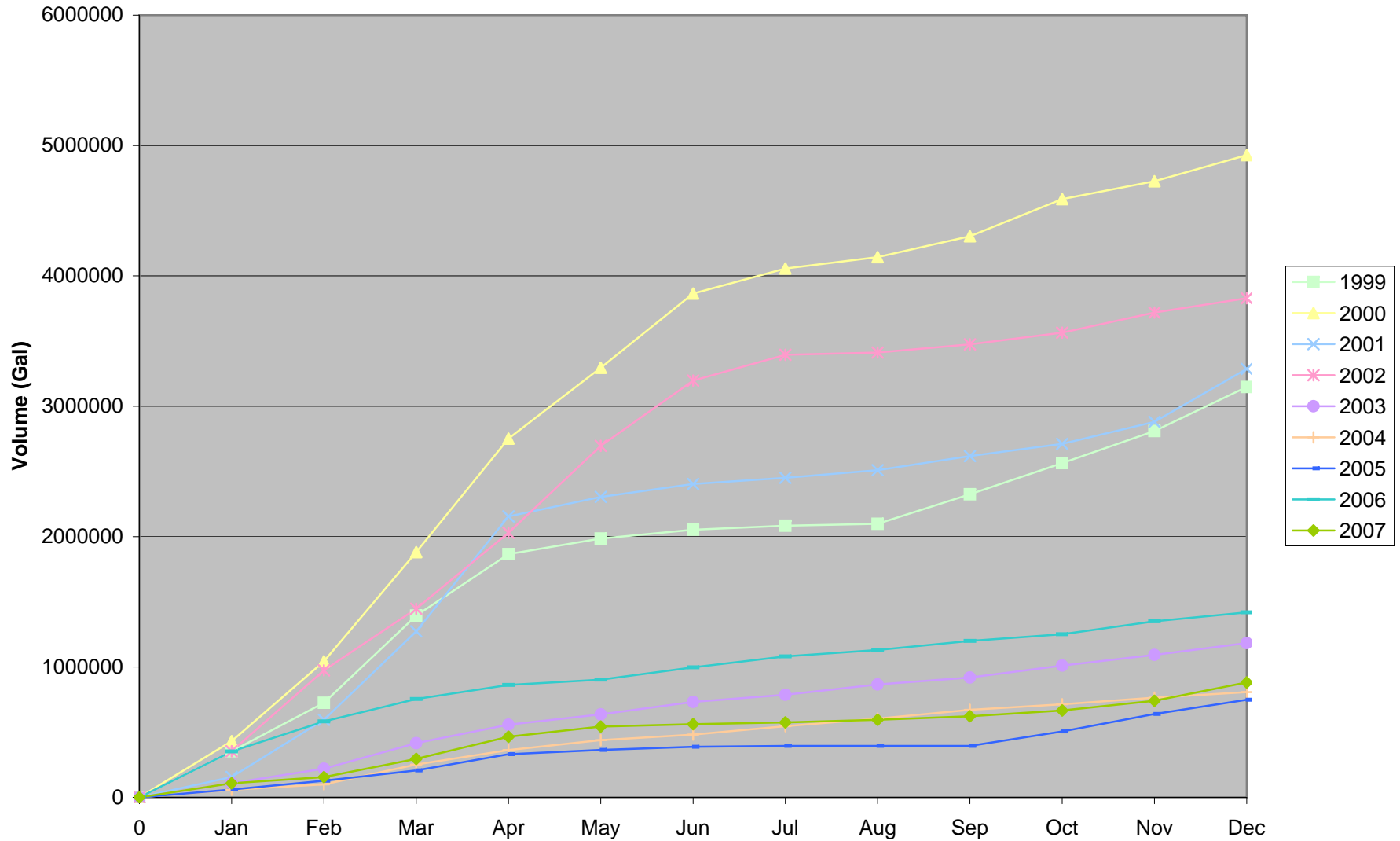
In 2007 the Solid Waste Division continued conducting post-closure monitoring and maintenance at the closed landfills: Caswell and Hillview Road.

Landfill post-closure activities include:

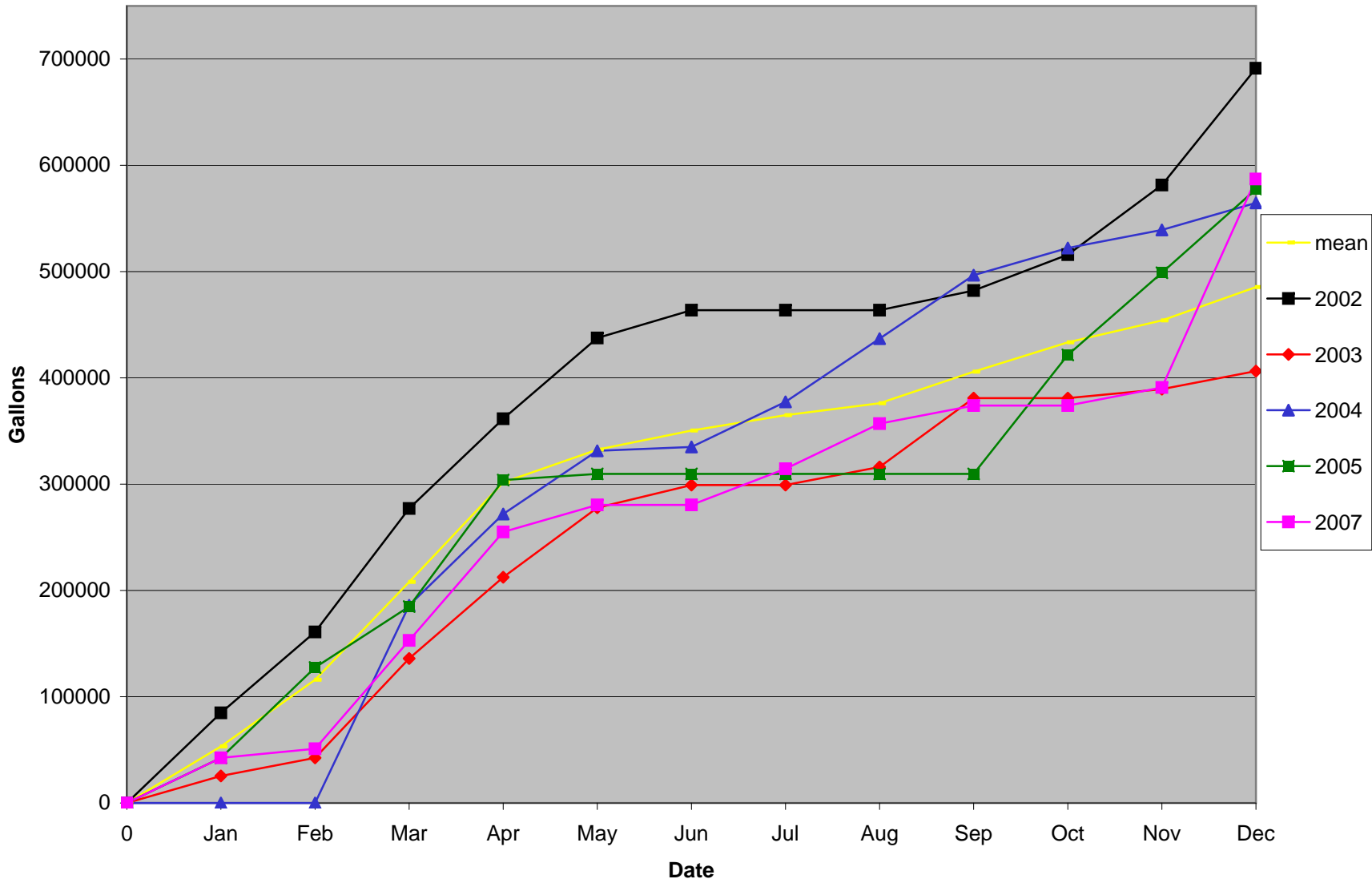
1. quarterly landfill inspections,
2. groundwater monitoring and reporting,
3. inspection and monitoring of leachate collection system, monitoring of leachate removal and treatment,
4. administration of landfill mowing services,
5. road maintenance, including snow removal,
6. landfill gas survey and report,
7. maintenance of facilities, and
8. maintenance of fence and gates.



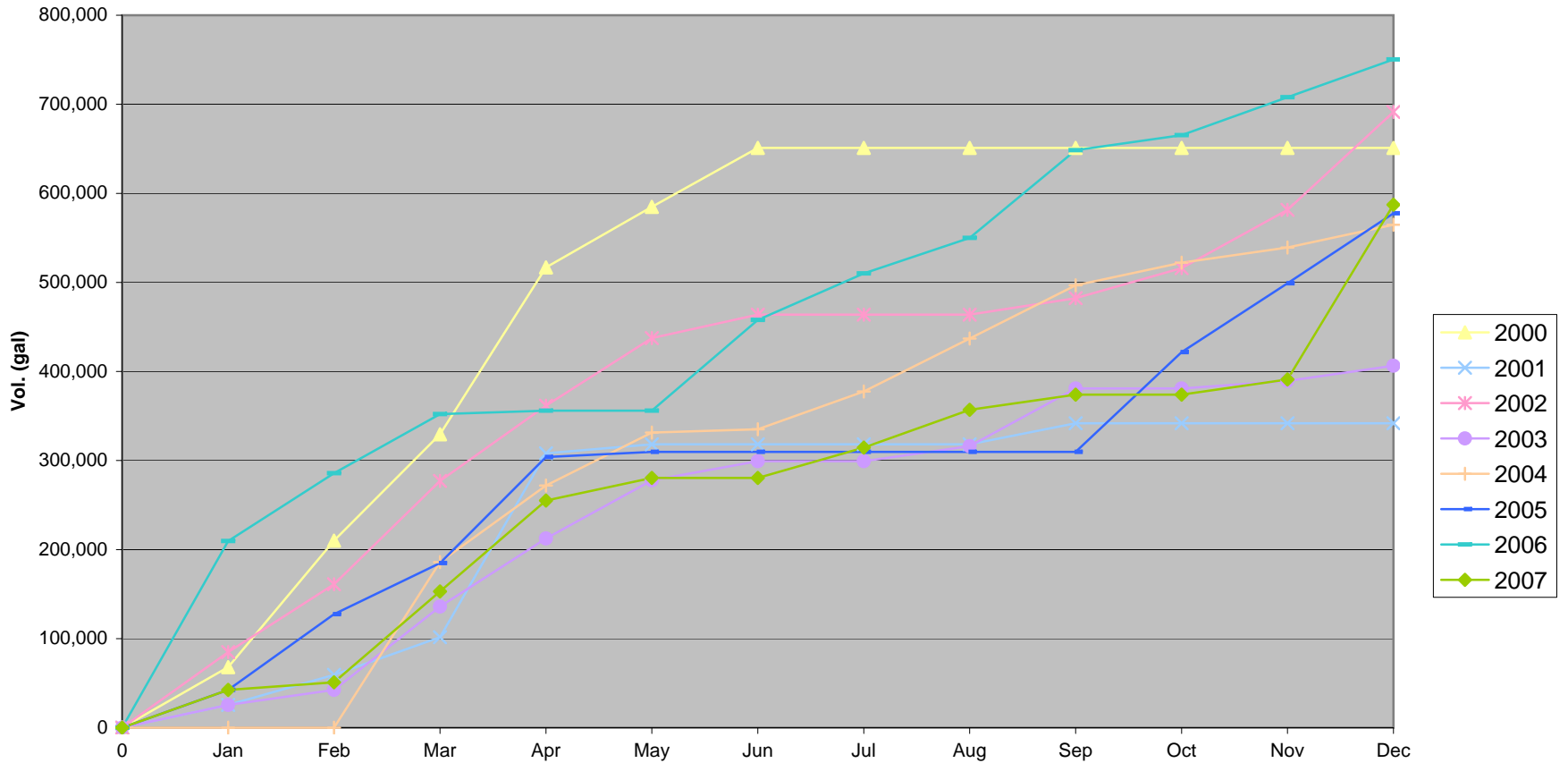
### 2007 Caswell Road Landfill Leachate Generation, (Gallons).



Hillview Road Landfill leachate generation,(gallons).



### 2007 Hillview Road Landfill Leachate Generation, (Gallons).



## **Solid Waste Enforcement**

In 2007, the Solid Waste Enforcement Officer coordinated the removal of nearly 3 tons of wastes from 59 illegal dumpsites with assistance from various municipalities. A total of 286 illegal dumping complaints resulted in 47 tickets or fines.

The Solid Waste Management Division worked with the Town of Caroline, providing disposal fee waivers that assisted the town during its clean up days. The Town of Caroline brought approximately 15.5 tons of trash to the RSWC. The Solid Waste Management Division allowed an 8-ton waiver. This waiver is valid under the clean up plan for a period of one year from the time the waiver is granted. This program has been successful.

New York State Parks brought in 473 tons of solid waste exempt under a previous agreement to locate a radio tower on State Park property.

Hauler licensing is another aspect of enforcement administered by the Solid Waste Management Division. The Solid Waste Management Division licensed 20 haulers to conduct business in Tompkins County in 2007.

The Solid Waste Enforcement Officer also enforces uncovered load, mandatory recycling and trash tag regulations. As a result of a surcharge program for uncovered loads that began in 2005, the number of uncovered load incidences have fallen dramatically. In 2007, there were only a total of 19 uncovered load incidences recorded. There were 8 trash tag violations in 2007. Letters were sent to residents as a reminder to use trash tags.

A total of over \$800 in fees have been recovered as a result of civil penalties issued for illegal dumping and clean up recovery costs, and uncovered load surcharges.

## Public Information and Customer Service

In 2007 the Solid Waste Management Division continued to emphasize public relations with on-site, face-to-face contact and education supervised by Linnett Short, Communication and Administrative Coordinator. We gave 40 tours of the Recycling and Solid Waste Center ranging from home schooled students and Cub Scouts to Cornell University students and Senior Care Living members. We attended several local events:

- Annual Plant Sale at the Ithaca High School,
- Sister to Sister event at the Women's Community Building,
- Earth Day Celebration at the Farmer's Market,
- Ithaca Festival Parade and at the IF event on Sunday at Stewart Park,
- Fall Apple Harvest Festival on the Commons,
- GrassRoots Festival in Trumansburg,
- Master Composter Class at Cornell Cooperative Extension,
- Dr. Suess's Birthday celebration and fair at Dryden Elementary School,
- BJM Science Fair,
- Dryden Dairy Days, and
- Walmart Sustainability Fair.

Several school presentation were given at:

- Groton,
- Beverly J. Martin,
- GIAC,
- Dryden,
- Freeville,
- South Hill,
- Northeast,
- Montessori,
- Caroline,
- Newfield,
- Belle Sherman,
- Lansing,
- Trumansburg,
- Cayuga Heights, and
- TST BOCES.

In addition, TCSWMD presented at summer camps located at the YMCA, Camp Earth, Cass Park, Enfield, Learning Web, Freeville, Montessori, Camp Earth, Cayuga Nature Center, Joint Youth Commission, and Sciencenter, among others. These efforts provided recycling and waste reduction awareness education. With such a strong effort the Solid Waste Division educated over 11,000 people including residents, students and senior citizens.



Belle Sherman



Camp Earth

The Tompkins County Solid Waste Management Division also addressed the needs and concerns of residents wanting recycling and compost bins, by going out into their towns, villages, etc. and having bins available to purchase along with free brochures and handouts.



The 2007 America Recycles Day celebration was attended by approximately 1,000 visitors and customers, with over 70 community participants represented at the event including:

- Significant Elements
- Southern Tier Aids Program
- SPCA
- 211
- Sciencenter
- Master Composters
- Energy Smart from Cornell Cooperative Extension
- Sustainable Tompkins
- Museum of the Earth
- Friends of the Library
- Computer All Stars
- Compost Theatre
- Tom Knight with his puppet show
- Superior Disposal
- Eco Players from Cornell and a local Toastmaster group performed the Lorax
- Tee shirt makeovers
- Sew Green
- Ithaca Biodiesel
- Ithaca Bakery
- React Electronics
- Computer all stars
- Babbages Basement
- Lynn Leopold with reuse projects

Volunteers from Tompkins County helped out and of course, the Super Heroes (Reduce, Reuse, Recycle and Rebuy) attended, handing out pencils made from blue jeans and old money, as well as tattoos of themselves to all the young visitors.



Compost Theatre



Volunteers

## **Go Green Initiative**

The *Go Green Initiative* is a simple, comprehensive program that's designed to create a culture of environmental responsibility on school campuses in Tompkins County. It provides a template that schools follow to tailor a program to fit their needs. They need to adopt, adapt and implement these initiatives:

G stands for generate compost

R stands for recycle

E stands for educate

E stands for evaluate the environmental impact of all activities

N stands for nationalize principals of responsible paper consumption

Each school will set up their own program following these green guidelines. This will ensure recycling county-wide. This movement will help to identify existing environmental education efforts and promote team-work.

In 2007 Enfield Elementary and TST Boces become a *Go Green Initiative* School.



# FINANCIAL INFORMATION

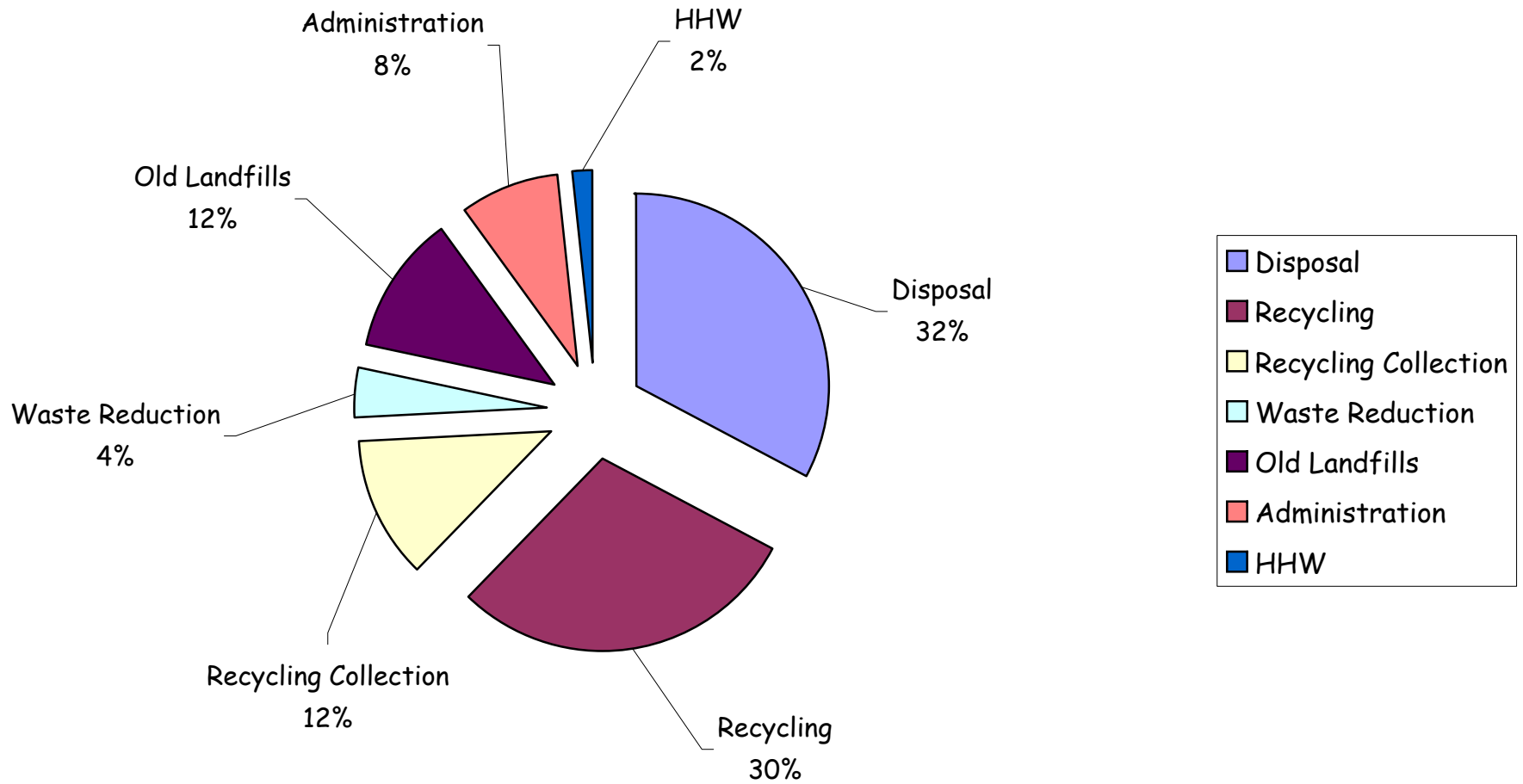
## Financial

Financial work of the Solid Waste Division is under the direction of Assistant Solid Waste Manager; assisted by the Principal Account Clerk/Typist, Senior Account/Clerk Typist and Solid Waste Assistant.

Financial responsibilities for the Division include budget preparation, auditing, balancing daily monies, accounts receivable and payable, various financial reports and analysis, supply ordering, oversight of accounting practices, and management of the Annual Fee. In addition to financial duties, staff are cross-trained to assist in other areas.

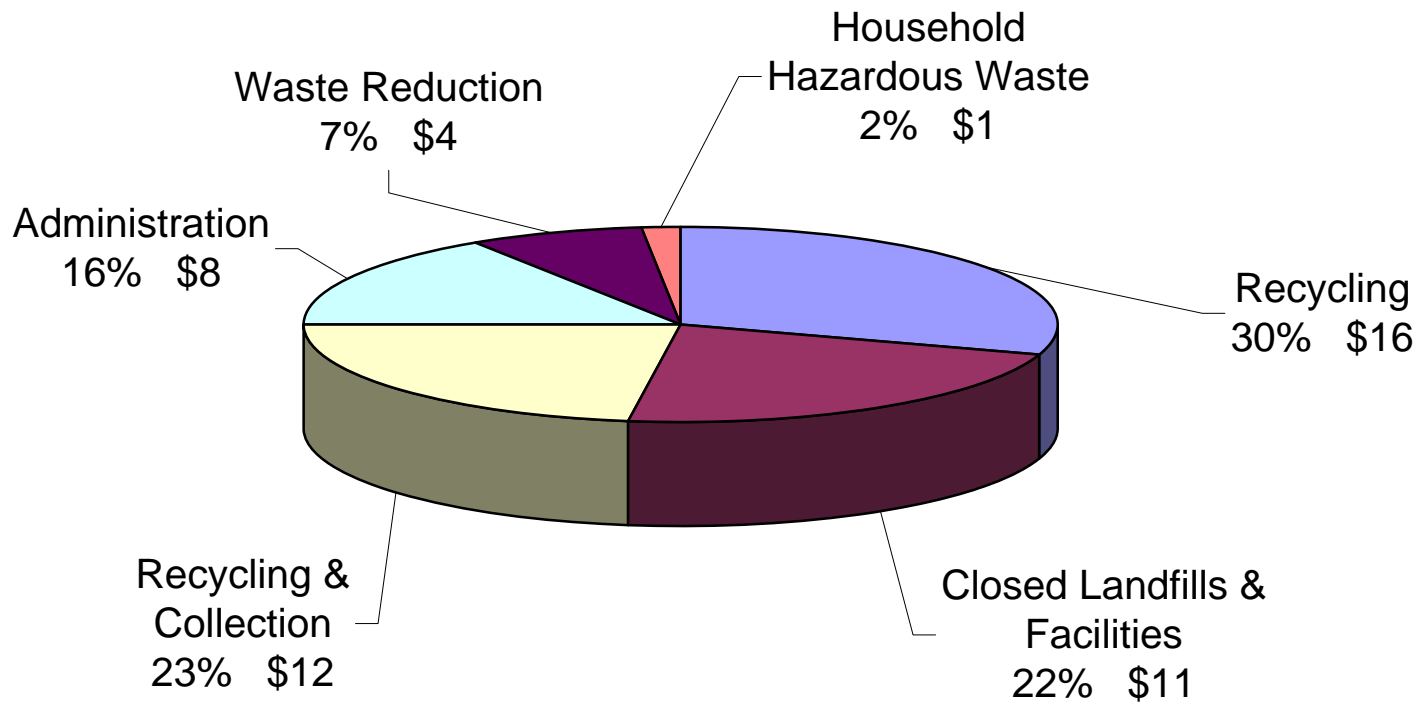


2007 Solid Waste Expenditures  
Total Expenditures  
\$5,706,499

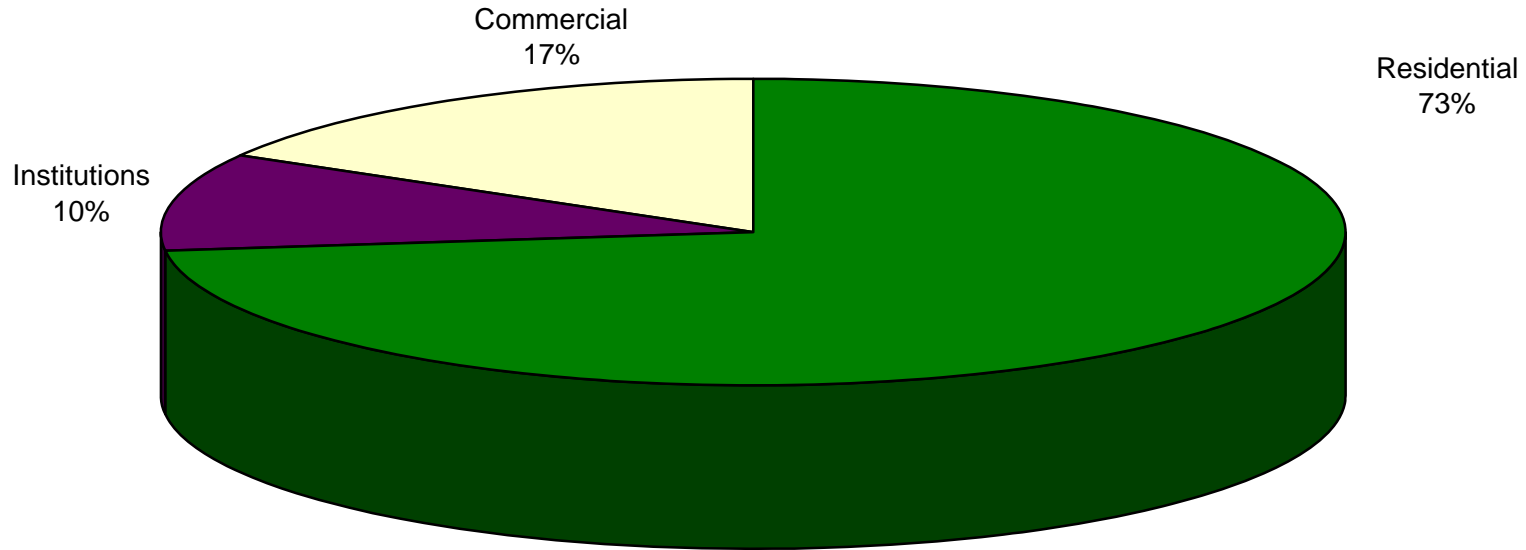


# 2007 Annual Fee Revenue

\$52 per household



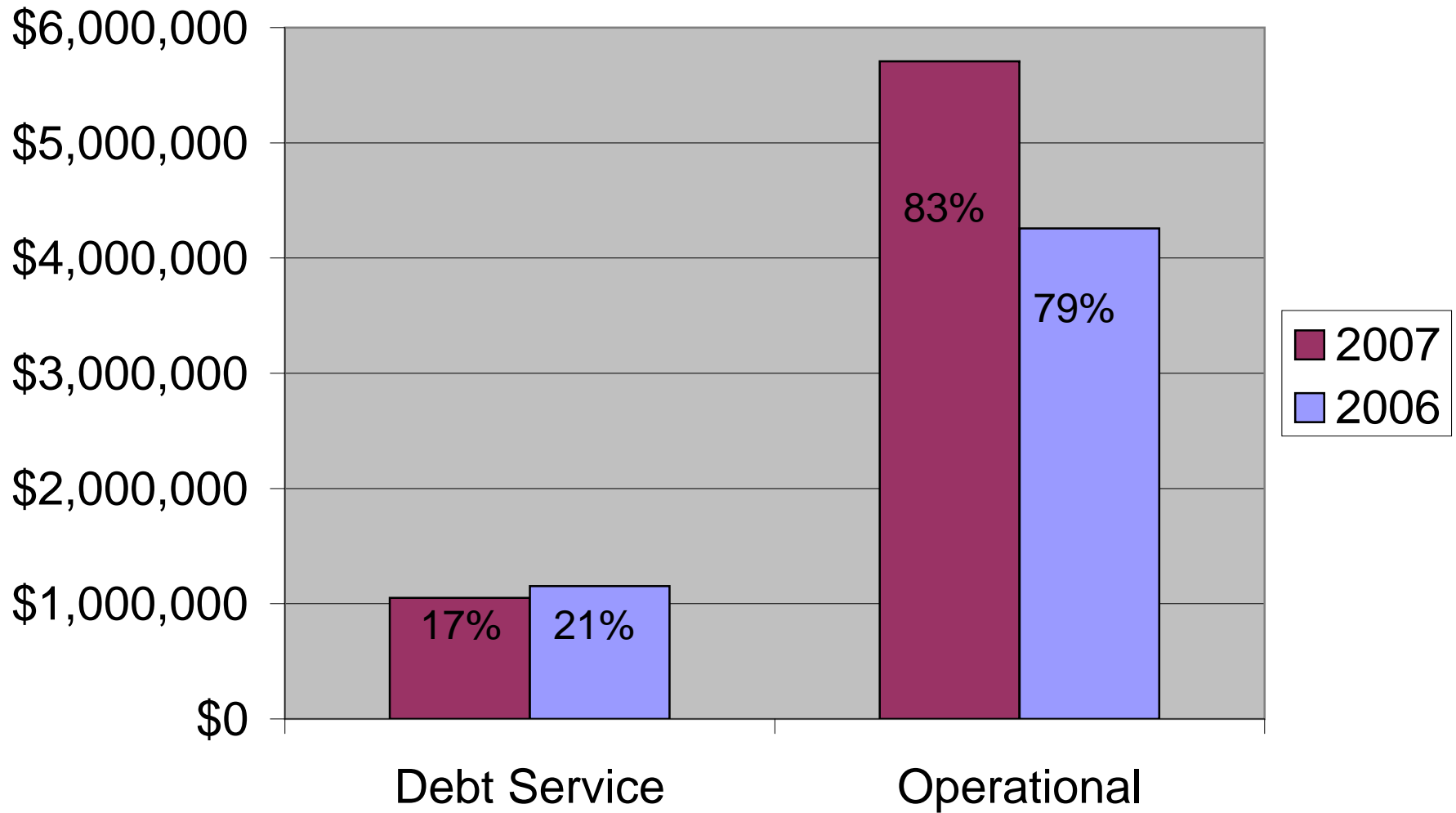
## Breakdown of 2007 Annual Fee by Categories



<u>Categories</u>	<u>Units</u>	<u>Charge Per Unit</u>	<u>Total Billed</u>
<b>Residential:</b> Apartment	10,334.70	\$52	\$537,404
Residential	27,770.70	\$52	\$1,444,076
Seasonal	175.00	\$26	\$4,550
<b>Commercial:</b> Aged & Health	3,944.04 (sq ft)	\$1.86	\$7,339
Other	104,717.49 (sq ft)	\$3.72	\$389,713
Rec & Warehouse	30,900.49 (sq ft)	\$1.86	\$57,499
<b>Institutions:</b> Colleges	~~		\$281,225

**Total Annual Fee Billed: \$2,587,821.83**

## 2007 Debt Service vs. Operational Costs



**2007 REVENUE**

Item	Price	2007 Totals	
		Items Sold	Revenue Collected
Tires	\$2	2029	\$4,058
Freon	\$20	973	\$19,460
Punchcard	\$10	6207	\$62,070
Disposal Coupons	\$5	27468	\$137,340
Residential Permits	\$5	4338	\$21,690
Commercial Permits	\$15	353	\$5,295
Commercial Permits	\$5	158	\$790
Compost Bins	\$30	180	\$5,400
Recycling Bins	\$5	1510	\$7,550
Hauler License	-	84	\$1,560
Compost Aerator	\$5	85	\$425
Compost Turner	\$10	5	\$50
Civil Penalty	\$50	2	\$100
Uncovered Load	\$10	12	\$120
Grants	-	-	\$42,654
Depot Fees			\$2,703
Sale of Recyclables			\$1,046,639
Interest			\$31,654
Fines			\$2,750
Finance Charges			\$1,121
Annual Fee			\$2,661,994
Tipping Fees (excluding coupon & punchcard revenue)			\$1,583,663
Fund Balance		(none needed)	\$0

**TOMPKINS COUNTY SOLID WASTE**

**2007 FINANCIAL SUMMARY**

10/01/07

*Report compiled using Finance Department reports*

FUNCTIONAL UNIT	BUDGETED		REVENUES		EXPENDITURES			ACTUAL NET DIFFERENCE**
	REVENUES	EXPENDITURES	ACTUAL REVENUES	Anticipated Additional Rev	ACTUAL EXPENDITURES	Currently ENCUMBERED	Anticipated additional exp	
8160 Disposal	\$1,878,660.00	\$ 1,866,660.00	\$1,995,991.39	\$ -	\$ 1,655,527.00	\$ 126,209.54		\$ 214,254.85
				<i>Disposal Rev &amp; Other</i>				
8163 Recycling	\$1,528,403.00	\$ 1,717,690.57	\$1,589,363.59	\$ 186,589.81	\$ 1,374,863.71	\$ 130,800.31		\$ 270,289.38
				<i>Rev Share &amp; Other</i>				
8164 Recycling Coll	\$ 686,676.00	\$ 686,676.00	\$ 685,596.00		\$ 599,101.74	\$ 65,847.26		\$ 20,647.00
8165 Waste Reduction	\$ 227,733.00	\$ 235,215.68	\$ 207,815.72		\$ 137,201.42	\$ 24,479.03		\$ 46,135.27
8166 Old Landfills	\$ 660,763.00	\$ 652,263.00	\$ 501,239.65		\$ 570,180.26	\$ 25,554.85		\$ (94,495.46)
8168 Administration	\$ 475,233.00	\$ 467,733.00	\$ 475,233.00		\$ 386,972.51	\$ 7,990.38		\$ 80,270.11
8169 HHW	\$ 102,766.00	\$ 103,793.06	\$ 48,056.20		\$ 115,873.74	\$ 1,435.81		\$ (69,253.35)
				<i>Grant &amp; Other</i>				
<b>TOTALS</b>	<b>\$5,560,234.00</b>	<b>\$ 5,730,031.31</b>	<b>\$5,503,295.55</b>	<b>\$ 186,589.81</b>	<b>\$ 4,839,720.38</b>	<b>\$ 382,317.18</b>	<b>\$ -</b>	<b>\$ 467,847.80</b>
*		<i>(\$169,797.31)</i>		<b>\$5,689,885.36</b>		<b>\$ 5,222,037.56</b>		
<b>Notes:</b>				FICA	\$43,555.66	<i>Antipated FICA</i>	\$0.00	
				Retirement	\$51,054.72	<i>Antipated Retire</i>		
* Garbage savings is due to less tonnage reducing the budgeted expense for transfer of garbage.				Workers Comp	\$9,375.00	<i>Antipated WC</i>		
				Fringes		<i>Antipated Fringes</i>		
				Health	\$78,875.61	<i>Antipated Health</i>		
				Prescription Ins	\$24,557.14	<i>Antipated Pres Ins</i>		
			<b>\$5,689,885.36</b>		<b>\$ 5,429,455.69</b>		<b>Surplus Total</b>	<b>\$260,429.67</b>

Summary of 5 Year Budget Projections

	2006	2007	2008	2009	2010	2011
<b>Recycling Tonnage</b>	17,864	18,350	19,500	21,000	22,500	23,500
<b>Disposal Tonnage</b>	24,942	25,540	25,949	26,468	26,468	26,468
<b>8160 DISPOSAL</b>						
Transfer	321,253	343,002	353,292	363,891	374,808	386,052
Transportation/Disposal	1,186,674	1,270,287	1,397,316	1,439,235	1,482,412	1,526,885
Operational expense	1,507,927	1,613,289	1,750,608	1,803,126	1,857,220	1,912,936
Law Enforcement	45,108	48,655	50,115	51,618	53,167	54,762
RSWC Debt Service	206,589	206,207	206,757	206,696	207,489	207,489
<b>Expense:</b> (Operational, Law Enforcement, Debt Service)	<b>1,759,624</b>	<b>1,868,151</b>	<b>2,007,479</b>	<b>2,061,440</b>	<b>2,117,875</b>	<b>2,175,187</b>
<b>Revenue:</b> (Permits, interest, fines, punchcards, disposal coupons)	<b>(45,280)</b>	<b>(247,460)</b>	<b>(254,420)</b>	<b>(261,078)</b>	<b>(269,830)</b>	<b>(276,681)</b>
Sale of permits	(20,000)	(25,000)	(25,000)	(25,000)	(27,000)	(27,000)
Interest	(12,000)	(12,000)	(12,000)	(12,000)	(12,000)	(12,000)
Fines/forfeitures	(3,280)	(1,460)	(2,150)	(2,350)	(2,450)	(2,450)
Misc Revenue: Punchcard / Disposal Coupon	(106,250)	(209,000)	(215,270)	(221,728)	(228,380)	(235,231)
<b>TOTAL EXPENSE:</b> (Expense - Revenue)	<b>1,724,344</b>	<b>1,620,691</b>	<b>1,753,059</b>	<b>1,800,362</b>	<b>1,848,045</b>	<b>1,898,506</b>
<i>Operational cost per ton of trash</i> (Oper Exp - Misc Rev / by Disposal Ton)	\$56.20	\$54.98	\$59.17	\$59.75	\$61.54	\$63.39
<i>Total cost per ton of trash</i> (Total Expense / Disposal Tonnage)	\$69.13	\$63.46	\$67.56	\$68.02	\$69.82	\$71.73
<b>8163 RECYCLING PROCESSING &amp; MARKETING</b>						
Budgeted Program Expense	1,694,737	1,685,177	1,727,306	1,770,489	1,814,751	1,860,120
Processing	1,197,686	1,189,009	1,203,220	1,199,610	1,240,388	1,283,750
Payments for Commercial Recyclables	74,666	74,517	76,380	78,289	80,247	82,253
RSWC & Single Stream Recycling Debt Service	397,385	396,651	397,707	442,590	444,117	444,117
Equipment Reserve	25,000	25,000	50,000	50,000	50,000	50,000
<b>Expense:</b> (Processing+Pay for Comm Recyclers+Debt Service+Equip Reserve)	<b>1,694,737</b>	<b>1,685,177</b>	<b>1,727,306</b>	<b>1,770,489</b>	<b>1,814,751</b>	<b>1,860,120</b>
<b>Revenue:</b>						
Budgeted Sale of Recyclables	(981,727)	(785,000)	(880,398)	(962,534)	(1,039,537)	(1,060,926)
<i>Anticipated Sale of Recyclables</i>	(840,000)					
<b>TOTAL EXPENSE:</b> (Expense - Revenue)	<b>713,010</b>	<b>900,177</b>	<b>846,908</b>	<b>807,955</b>	<b>775,214</b>	<b>799,194</b>
<i>Processing Cost per Ton</i> (Processing + Pay for Comm Recyc / Recycling Tonnage)	\$71.22	\$68.86	\$65.62	\$60.85	\$58.69	\$58.13
<i>Budgeted Revenue per Ton</i> (Sale of Recyclables / Recycling Tonnage)	(\$54.96)	(\$42.78)	(\$45.15)	(\$45.83)	(\$46.20)	(\$45.15)
<i>Anticipated Rev per Ton</i> (Anticipated Sale of Recyclables / Recyc Ton)	(\$47.02)					
<i>Program cost per ton of recyclables</i> (Total Exp / Recycling Tonnage)	\$39.91	\$49.06	\$43.43	\$38.47	\$34.45	\$34.01

Summary of 5 Year Budget Projections

<b>8164 RECYCLING COLLECTION</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Expense: Residential Collection	666,152	686,676	654,276	673,905	694,122	714,945
Revenue: Sale of Recycling Bins	(23,400)	(9,000)	(9,000)	(9,000)	(9,000)	(9,000)
<b>TOTAL EXPENSE:</b> (Expense - Revenue)	<b>642,752</b>	<b>677,676</b>	<b>645,276</b>	<b>664,905</b>	<b>685,122</b>	<b>705,945</b>
	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>8165 WASTE REDUCTION</b>						
Expense: Reuse, Composting, Green Purchasing	191,007	227,733	234,565	241,602	248,850	256,315
Revenue: Sale of Composting Bins	(5,800)	(6,550)	(6,550)	(6,550)	(6,550)	(6,550)
<b>TOTAL EXPENSE:</b> (Expense - Revenue)	<b>185,207</b>	<b>221,183</b>	<b>228,015</b>	<b>235,052</b>	<b>242,300</b>	<b>249,765</b>
<b>8166 OLD LANDFILLS &amp; FACILITIES</b>						
Maintenance & Monitoring	94,557	104,157	106,761	109,430	112,166	114,970
Leachate Disposal	51,000	59,825	18,000	18,000	18,720	19,469
Landfill Closure Debt Service	369,410	368,997	335,698	331,395	331,778	331,778
Leachate Debt Service	0	0	44,000	44,000	44,000	44,000
DR-7 Debt Service	129,139	127,784	111,880	111,621	111,804	111,804
On-Site Treatment Debt Service (if approved in 2007)			30,000	30,000	30,000	30,000
<b>TOTAL EXPENSE:</b> (Maintenance, Monitoring + Leachate Disposal + Debt Service)	<b>644,106</b>	<b>660,763</b>	<b>646,339</b>	<b>644,446</b>	<b>648,468</b>	<b>652,021</b>
<b>8169 HOUSEHOLD HAZARDOUS WASTE</b>						
Expense: (Collection Management)	94,547	102,766	105,849	109,024	112,295	115,664
Revenue: (User/CESQG Fees/Grant)	(46,104)	(48,813)	(49,285)	(50,660)	(52,076)	(53,535)
<b>TOTAL EXPENSE:</b> (Expense - Revenue)	<b>48,443</b>	<b>53,953</b>	<b>56,564</b>	<b>58,364</b>	<b>60,219</b>	<b>62,129</b>
<b>8168 ADMINISTRATION</b>						
Management	297,210	387,405	392,054	396,759	401,520	406,338
Public Works	13,229	37,251	39,114	41,069	43,123	45,279
Office Building Debt Service	50,671	50,577	50,712	50,697	50,892	50,892
<b>TOTAL EXPENSE:</b> (Management+Public Works+Debt Service)	<b>361,110</b>	<b>475,233</b>	<b>481,879</b>	<b>488,525</b>	<b>495,534</b>	<b>502,509</b>

Summary of 5 Year Budget Projections

<b>ALL PROGRAM TOTALS</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>Total Solid Waste Division Expense</b>	5,411,283	5,706,499	5,857,694	5,989,431	6,131,896	6,276,761
<b>Total Solid Waste Division Revenue</b>	-1,092,311	-1,096,823	-1,199,653	-1,289,822	-1,376,993	-1,406,692
<b>Total Expense minus Total Revenue</b>	4,318,972	4,609,676	4,658,041	4,699,609	4,754,902	4,870,069
<b>DISPOSAL FEE</b>						
Licensed Haulers (price per ton)	61	65	67	67	68	68
General Public (price per ton)	71	71	72	72	73	73
TOTAL DISPOSAL FEE REVENUE: (Hauler + Public Price Per Ton * Disp Ton)	1,661,785	1,747,920	1,814,656	1,850,726	1,877,194	1,877,194
<b>TOTAL PROGRAM EXPENSE LESS DISPOSAL FEES</b>	<b>2,657,187</b>	<b>2,861,756</b>	<b>2,843,386</b>	<b>2,848,883</b>	<b>2,877,708</b>	<b>2,992,875</b>
<b>ANNUAL FEE PROJECTIONS</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Residential Per Household Unit Charge	\$52	\$52	\$54	\$54	\$54	\$54
College Charge (IC, CU,Boces,TC3)	249,517	281,225	295,286	310,051	325,553	341,831
<b>ANTICIPATED TOTAL ANNUAL FEE TO BE COLLECTED</b>	<b>2,662,214</b>	<b>2,721,807</b>	<b>2,814,761</b>	<b>2,814,761</b>	<b>2,814,761</b>	<b>2,814,761</b>
<b>FUND BALANCE SUMMARY</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Required fund balance (10% of Total Budget)	541,128	570,650	585,769	598,943	613,190	627,676
Total Expense Less Disposal Fees	2,657,187	2,861,756	2,843,386	2,848,883	2,877,708	2,992,875
Anticipated Annual Fee to be Collected	2,662,214	2,721,807	2,814,761	2,814,761	2,814,761	2,814,761
Use of Fund Balance (yr end 2005 = \$1,172,188)	(\$5,027)	\$139,949	\$28,625	\$34,122	\$62,947	\$178,114
Remaining Fund Balance	1,177,215	1,037,266	1,008,641	974,520	911,573	733,459
<b>Fund Balance Overage or Shortfall</b>	<b>636,087</b>	<b>466,617</b>	<b>422,872</b>	<b>375,577</b>	<b>298,383</b>	<b>105,783</b>

# TRAINING OPPORTUNITIES

**Staff Person****Training**

Leo Riley	NRC Annual Congress Expo
Kat McCarthy	NYSAR Annual Conference EPP Vendor Fair and Conference Solid Waste & Recycling Conference & Trade Show How to Get More Organized How to Handle Conflict & Confrontation TC Chamber of Commerce Business After Hours
Ken Thompson	TC3 Course NYSASWM Fall Conference
Linnett Short	Business After Hours-Chamber of Commerce How to be an Outstanding Communicator Solid Waste Recycling Conference and Trade Show
Amanda Block	NYSAR Annual Conference Powerful Communication Skills EPP Vendor Fair & Conference
Paul Cowles	OSEA Hazardous Waste Class
Stephanie Egan	How to be an Outstanding Communicator