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Residential Trash Collection in Onondaga County:

A Study Comparing Cost and Type of Service

June 1999



COMMUNITY BENCHMARKS PROGRAM MAXWELL SCHOOL OF CITIZENSHIP AND PUBLIC AFFAIRS SYRACUSE UNIVERSITY

Research Team

David Radley Elizabeth DiMatteo Priya Perera

Project Manager: James Fleming Community Benchmarks Director: Carol Dwyer

Community Benchmarks Program Residential Trash Collection in Onondaga County June 1999

Executive Summary

Introduction

This study reports cost and service information of residential trash and recyclables collection in 35 municipalities and one special district in Onondaga County. It is intended to provide the public and government officials with a basis for comparison and evaluation of the variations in trash collection cost and service throughout the municipalities.

There are four main ways in which trash is collected in Onondaga County:

- The municipality provides trash collection services for its residents. (N=8)
- The municipality contracts with private, commercial haulers to provide trash collection for the community. (N=7)
- The municipality creates a special district for contracting services with a commercial hauler for a portion of the municipality. (N=1)
- The municipality requires individual households to select private haulers for residential trash collection services. (N=20)

Methods

Data used in this study were collected via two surveys. The "Survey on Trash Collection Services in Onondaga County" was distributed to the 35 municipalities and one special district.* Thirty-two of the municipalities responded. Clerks in the Villages of Fayetteville, Manlius, and Minoa did not complete the survey. The "Citizen Telephone Trash Survey" was administered to 118 residents in municipalities where residents select their own haulers. A total of 697 households were contacted in order to obtain these responses. Background information on existing trash collection services in Onondaga County was provided by the Onondaga County Resource Recovery Agency (OCRRA).

*The town of Clay filled out the survey for the special district as well as the municipality.

Findings

- 1. Municipally contracted trash collection is the least costly service for residents in Onondaga County at an average of \$120 per household in 1998, while individually contracted service by residents is the most costly at an average of \$245. Municipal service averages \$156 per household.
- 2. The overall average cost of trash collection in 1998 for all types of services was \$195 per household, ranging from \$66 in the Village of Marcellus to \$354 in the Village of Tully.
- 3. The average cost of municipally contracted trash collection in 1998 was \$120, ranging from \$66 in the Village of Marcellus to \$170 in the Village of Jordan.
- 4. The average cost of municipally provided trash collection in 1998 was \$156, ranging from \$139 in the Village of East Syracuse to \$175 in the Village of Solvay.
- 5. The average cost of residentially contracted service in 1998 was \$245 ranging from \$191 in the Town of Dewitt to \$354 in the Village of Tully.

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I. Introduction

Purpose

This study reports information about residential trash and recyclables collection in 35 municipalities and one special district in Onondaga County. It is intended to provide the public and government officials with a basis for comparison and evaluation of the variations among costs and services of trash collection throughout the municipalities.

It is hoped that this report will enable government officials to determine the most cost effective methods of trash collection and to use this information to gauge the cost effectiveness of their own trash collection systems.

This study is based on an earlier effort conducted in the fall of 1998 to collect information from the private trash haulers in Onondaga County. The 1998 study examined 14 haulers and only three responded to all survey questions. CTS Trash Service, Waste Management, and DC Morgan Trash were the only private haulers to completely respond to all of the fall 1998 survey questions. Due to this low response rate, the information gathered from this initial study is not used in this study

Municipalities Studied

^{*}These municipalities did not provide data on trash collection.

Background

The Onondaga County Resource Recovery Agency (OCRRA) is responsible for the processing of solid waste in Onondaga County. OCRRA operates a waste to energy facility as well as two transfer stations, one at Rock Cut Road and one at Ley Creek. Individuals bring their trash generally to the Rock Cut Road Transfer Station. Haulers directly deliver residential trash to the waste to energy plant, but construction and demolition debris (C & D) is brought to the Ley Creek Transfer Station where the material is sorted for recycling. Some of this sorted C & D is transported to the waste to energy plant.

OCRRA employees separate processible discards from the 1,400 tons of waste brought to the transfer stations every day. The processible waste is then hauled to a waste to energy Facility. According to OCRRA's Executive Director, Tom Rhoads, energy produced by the Waste-To-Energy plant provides enough energy to support an average of

20,000 homes annually. The energy created at these plants is then sold to Niagara Mohawk Power Corporation under the provisions of a long-term contract.¹

Methods of Trash Collection

There are four main ways in which trash is collected in Onondaga County:

- The municipality provides trash collection services for its residents.
- The municipality contracts with private, commercial haulers to provide trash collection for the community.
- The municipality creates a special district for contracting services with a commercial hauler for a portion of the municipality.
- The municipality requires individual households to select private haulers for residential trash collection services.

The Municipality Provides Service

For the first method of trash removal, the municipality owns and maintains garbage trucks, which collect all routine, residential trash. The Department of Public Works, within the villages and the City of Syracuse, manage this service. Municipalities that provide trash collection services for their residents include:

City of Syracuse Village of Liverpool
Village of Camillus Village of Manlius
Village of East Syracuse Village of Minoa
Village of Fayetteville Village of Solvay

The Municipality Contracts with a Private Hauler

For the second method of trash removal, the municipality hires a private hauler—or in some cases, more than one private hauler—to provide residential trash collection services in the municipality. Private haulers bid for the municipal contracts and the municipality awards a contract for a period of at least one-year to the successful bidder. Municipalities that contract with a commercial hauler include:

Town of Camillus

Town of Dewitt (As of 1/1/99)

Town of Geddes

Town of Salina

Village of Elbridge

Village of Jordan

Village of Marcellus

Village of North Syracuse

The Municipality Creates a Special District

The third method of trash collection occurs only in the Town of Clay. Most residents in the Town of Clay are responsible for selecting their own haulers. However, some residents requested that they be allowed to form a special district to provide contracted service with a private hauler. Following the bid process, Town of Clay officials contracted with a private hauler to provide trash collection services for the 325 households within the Four Seasons Refuse Disposal District. The cost of this service is then added to the property taxes of residents in that district. For the purposes of this study, the Clay Special District is compared to the other municipally contracted providers.

¹ Onondaga County Resource Recovery Agency 1997 Annual Report

Residents Hire Their Own Haulers

The final method of trash collection is for individual households to hire a private hauler to provide trash collection services. Individuals may select any OCRRA-approved hauler, and several different haulers often provide services on the same street. Most municipalities require the private haulers to pay annual licensing fees in order to operate in that municipality. These licensing fees can be a flat fee and/or a fee per truck.

In addition to being able to select their own hauler, residents are usually given several options for service provided by the hauler. For example, the hauler may pick up the trash at the end of the driveway or, for an additional fee, collect the trash from the garage. Municipalities in which residents hire their own hauler for trash collection service are:

Town of Cicero Town of Otisco Town of Clay Town of Pompey Town of Dewitt Town of Skaneateles Town of Elbridge Town of Spafford Town of Fabius Town of Tully Town of LaFavatte Town of Van Buren Town of Lysander Village of Baldwinsville Town of Manlius Village of Fabius Town of Marcellus Village of Skaneateles Town of Onondaga Village of Tully

OCRRA-Approved Haulers²

Private, commercial haulers that are permitted to use OCRRA facilities:

Appleton Disposal Green Trash Removal Blue Ribbon Trucking Jerry's Removal

Bistrow Trucking Laidlaw (Now Part of Waste Mngt.)

Brand Trucking Santaro Trucking

Capital Environmental Resource Syracuse Haulers Waste Removal

CTS Trash Service Tousley (Now Part of Capital Env. Resource)
DC Morgan Trash USA Waste (Now Part of Waste Mngt.)

Emmons Waste Management

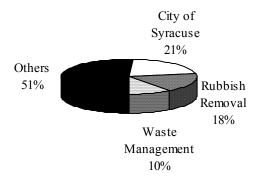
Feher Rubbish Removal

According to the *OCRRA 1998 Annual Report*, the trash collection industry in Onondaga County has experienced consolidation over the past seven years. In 1991, the market share was dominated by three sources: the City of Syracuse (21%), Rubbish Removal (18%), and Waste Management (10%), which comprised 49% of the total market share.

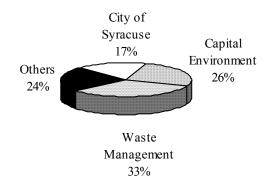
In 1998, three sources collectively made up 76% of the total market share: Waste Management (33%), Capital Environment (26%), and the City of Syracuse (17%). The two graphs on the next page depict the break down of market shares in Onondaga County for the years 1991 and 1998.

² This list is updated continuously. Contact OCRRA for the most up-to-date list.

Trash Hauler Market Share (1991)



Trash Hauler Market Share (1998)



Exceptions

There will always be exceptions to any norm, and such is the case with trash collection in Onondaga County. Several of the county's villages and towns operate under special conditions that affect this report. Some of these special conditions make several municipalities incomparable. Consequently, the following municipalities are not reported on in this study: Town and Village of Skaneateles, Town of Spafford, and Town of Tully. The Villages of Fayeteville, Manlius, and Minoa are not included in this study because clerks in these municipalities did not complete the survey.

Comments are also included in this section concerning the reporting of some data for the following municipalities: Town of Dewitt, Town of Salina, and the Village of Camillus.

Town and Village of Skaneateles

Both the Town and the Village of Skaneateles operate on a system independent of OCRRA. There are three private haulers in Skaneateles that collect residential trash on a regular basis. These haulers bring the trash to a Skaneateles-owned transfer station, where the trash is collected and then hauled to the Seneca Meadows landfill. The haulers are also responsible for collecting and sorting recyclables. Residents, who choose not to use one of the three haulers, take their trash directly to the Skaneateles transfer station. The cost to the resident is significantly reduced if he or she takes the household's trash to the transfer station, where the resident is responsible for separating his or her own recyclables. Due to their distinct method of trash collection, data for these two municipalities were not included in this report.

Town of Spafford

The Town of Spafford also has a transfer station for residential use. Unlike Skaneateles, the Spafford transfer station is a collection point for waste that will be transported to an OCRRA facility. Because of Spafford's geographic location, the small number of households, and the distances between those households, few private haulers are willing to provide service to this community. Most of the Spafford residents opt to transport their own trash to the transfer station. Consequently, data for this municipality were not included.

Town of Tully

Out of an estimated 30 phone calls to residents of the Town of Tully, only four completed the "Citizen Telephone Trash Survey." All four of these respondents indicated that they deliver their trash directly to OCRRA. As a result of the limited amount of data, this study cannot accurately present data for this municipality.

Town of Dewitt

The Town of Dewitt formerly provided no trash collection services for its residents. Through December of 1998, each resident made arrangements for trash collection with a private hauler. On January 1, 1999 the town switched to a municipally contracted service, ranging from the pick-up of unlimited quantities of trash and recyclables to residents taking their trash directly to an OCRRA facility. The municipality now offers residents four levels of trash collection services.

Because municipal data in this study were collected for the years 1996 through 1998, this report treats Dewitt as a municipality where residents select a private hauler for trash collection services.

Town of Salina

Over a period of time beginning in the 1940s and continuing through the 1980s, the Town of Salina was gradually divided into eight special districts for trash collection, each of which contracted with a private hauler for that district. Each district was formed from different areas or large sub-divisions of the town, and trash haulers varied from district to district. This changed in 1993, when the Town of Salina contracted with one hauler for all districts. All eight districts are currently using the same company, paying the same price for service, and receiving the same service from their hauler.

The Lyncourt and Syracuse Gardens Districts pay slightly higher fees for their trash collection services, because these areas include various commercial garbage expenses. Because residents in all eight districts receive identical services through a single, municipally contracted hauler, this report treats the Town of Salina not as a special district, but as a municipality that contracts with private hauler to service the entire town.

Village of Camillus

Cost for trash removal in the Village of Camillus includes all commercial and some industrial trash removal, as well as all residential trash removal for the village. Commercial trash removal is not factored into the cost of removal for other municipalities. The cost for commercial and/or industrial waste cannot be deducted from the data used for the Village of Camillus. This makes the costs for trash collection in this municipality somewhat higher, since all other comparisons are for residential collection only.

³ Meeting at OCRRA 2/2/99

Self-Service Trash Collection

Citizens responsible for making their own arrangements with a commercial hauler may also take their trash directly to an OCRRA facility. Residents generally use this method because they have a minimal amount of trash and/or because the only cost involved is the OCRRA fee of \$2 per bag of garbage. These bags can be any size up to 30 gallons and still fall under the \$2 per bag fee.

Residents may also bring non-routine trash to OCRRA transfer stations. The garbage is weighed, and the resident pays a fee proportionate to \$84 per ton of garbage. This garbage can include construction debris, white goods, and, tires. In addition to the per ton fee, OCRRA charges an additional \$25 fee for refrigerators or air conditioners. This charge covers the cost for disposal of the Chlorofluorocarbons used in these appliances.

In addition to the services described above, OCRRA also offers the community two opportunities per year to bring hazardous waste to OCRRA facilities. OCRRA accepts these materials free of charge, and each of these hazardous waste days attracts an average of nearly 1,250 participants.

According to data gathered through the "Citizen Telephone Trash Survey," the percentage of those who exclusively use OCRRA for waste disposal is fairly small. However, OCRAA reported in its 1998 Annual Report that it sold over 40,000 bag stickers, mostly to homeowners.

Illegal Dumping

Data gathered through telephone surveys also demonstrated that some citizens may dump their garbage illegally by using company dumpsters in parking lots or other public areas. While this is not the norm, and it is impossible to gauge the frequency of such activity, it is important that the report mention this occurrence.

Trash Collection Costs and Services

There is no standard fee that private haulers charge to the residents they service. Haulers can offer different services and can charge different amounts for these services. Each service has its own restrictions and/or limitations on what the customer can put out for collection. Municipalities that pick up trash for their residents tend to offer only one type of service and charge.

- **Size Limitations**: Some municipalities and private haulers limit the size of containers—garbage cans and/or bags—to a certain number of gallons. Occasionally a private hauler will provide the customer with a specific bin, depending on the service paid for by the customer.
- Quantity Restrictions: Sometimes municipalities and private haulers limit the number of trashcans or bags that
 can be put out per household per week. Some require the customers to buy stickers to place on their garbage.
 Each sticker costs a set amount, and the customer may put out as many bags as he or she likes, provided each bag
 has a sticker. Other trash collection providers that employ the sticker system will still place weekly restrictions
 on the number of containers collected per household.

Municipalities that use the sticker system for trash collection include⁴:

Village of East Syracuse Village of Jordan Village of Liverpool Village of Elbridge Village of Manlius

⁴ These additional fees were calculated into the average cost of trash collection services.

Definitions of Trash-Related Terms

The following list identifies and defines terms relevant to residential trash collection services.

Size Limitations	Size limitations can be placed on trash containers to regulate the type/size of
	bag or bin in which residents are allowed to place their trash.
Non-routine Trash	Normally, this signifies construction debris, white goods, batteries, tires, and/or hazardous waste. These materials may be collected on specific dates or during routine trash collection.
Construction Debris	Waste associated with building and housing construction. This may include rubble (concrete, bricks or asphalt), wood, plaster, and insulation.
Leaves/Yard Debris	Leaves, cut grass, and other plant waste resulting from typical lawn care.
White Goods	Appliances such as ovens, washing machines, and refrigerators.
Batteries	Dry cell batteries typically used in most households are included in this category. They can contain lithium, sealed lead acid, or nickel metal hydride.
Tires	Rubber products, scrap tires, and treads.
Hazardous Waste	Any waste present on the EPA's list of regulated hazardous wastes or any solid waste that is ignitable, reactive, corrosive, or toxic is considered to be a hazardous waste.
Recycling	The recovery of solid waste that exhibits the potential to be used repeatedly in place of a virgin material.
Paper Products	Newspaper, mixed paper, office paper, corrugated paper, non-metallic wrapping paper, greeting cards, and catalogs.
Glass	Recyclable glass can be clear or colored food and beverage containers (OCRRA, Recycling Information).

II. METHODS

This section reports how the data were collected for this report. It also addresses questions relating to data quality.

Data Collection

Data used in this study were acquired from three primary sources:

- Background information on trash collection provided by the Onondaga County Resource Recovery Agency (OCRRA)
- The "Survey on Trash Collection Services in Onondaga County" distributed to each of the 35 municipalities and one special district in Onondaga County*
- The "Citizen Telephone Trash Survey" administered in municipalities where residents are responsible for disposing of their trash individually

Information Provided by OCRRA

OCRRA provided information to the researchers through a presentation with Executive Director Tom Rhoads and Recycling Director Suzanne Lalonde on February 2, 1999. Additionally, various pamphlets and brochures regarding trash collection service in Onondaga County were reviewed. These included:

- 1. 1998 OCRRA Annual Report
- 2. 1997 OCRRA Annual Report
- 3. "Operation Separation: Rap" (May 1999)
- 4. "1998 Information on the Disposal of Household Trash at OCRRA Transfer Stations by Individuals"
- 5. A list of OCRRA licensed haulers (February 1999)
- 6. A list of current residential collection practices (January 1999)
- 7. "Leaf and Brush Policies in Onondaga County" (October 30, 1998)

Survey on Trash Collection Services in Onondaga County

The "Survey on Trash Collection Services in Onondaga County," designed by the Community Benchmarks Program, was distributed to town, village, and city clerks' offices in the county's 35 municipalities and one special district. The surveys were mailed February 3, 1999 and municipalities were asked to complete them by February 19, 1999. Respondents returned the surveys via fax or mail from 32 municipalities. The Villages of Fayetteville, Manlius, and Minoa did not complete the survey.

The survey was divided into four sections reflective of the four different methods in which municipalities manage trash collection. An additional section was included for any areas that may have an alternative and/or supplemental method of trash collection apart from the four main methods. Respondents were asked to fill out the section that reflected their municipality's trash collection practices. The following are the section categories:

^{*}The Town of Clay completed the survey for the special district as well as for the municipality.

- **Section A** The municipality provides trash collection services.
- **Section B** The municipality contracts with a commercial hauler to provide service for the entire community.
- **Section** C The municipality establishes a special district for contracted services with a hauler.
- **Section D** The municipality does not provide trash collection service. Residents select a private hauler or transport their waste to an OCRRA transfer station.

Section E - Other

Municipalities where respondents answered section A, B, or C were also asked to provide information on customer satisfaction in Section F.

Municipalities were asked to provide information on restrictions placed on trash collection and type of service, as well as financial information relating to the amount spent on trash collection. Information requested of municipalities included data pertaining to the years 1996, 1997, and 1998. Only 1998 data were used in reporting the findings.

A copy of the questionnaire, the codebook of responses, the data spreadsheet of responses, and the contact log are provided in Appendices A, B, C, and D respectively.

Citizen Telephone Trash Survey

In 17 of the municipalities where residents select a private hauler or transport their waste to an OCRRA transfer station independently, the "Citizen Telephone Trash Survey" was administered. The Town of Spafford was not included in this survey because most residents take their garbage to an OCRRA facility. The Village of Skaneateles and the Town of Skaneateles were not included in the survey because they operate independently of OCRRA.

This survey was designed by the Community Benchmarks Program to determine costs and types of trash collection services. The survey was conducted between February 6, 1999 and March 9, 1999. Prospective respondents were selected by town, village, and/or zip code from (1) resident listings in the Syracuse Metropolitan Area White Pages, (2) staff and faculty member listings in the 1998-99 edition of the Syracuse University Campus Directory, and (3) residents listed in the online directory www.att.com.

Prospective respondents were contacted exclusively by phone initially. E-mail was used as a means for contacting staff and faculty members listed in the 1998-99 edition of the *Syracuse University Campus Directory*. Those who were sent the survey by e-mail could respond via e-mail or by phone. Respondents were requested to provide information on their hauler, the type of service provided, and amount paid for trash collection service.

Respondents were asked to provide information representative of their current trash collection costs as of February-March 1999. Most households are billed for trash collection on a quarterly basis. Quarterly rates were converted to annual totals for analysis in this report. Residents of the Town of Dewitt were asked to provide information on their trash collection service prior to January 1, 1999, before the town began contracting with commercial haulers.

The goal of the researchers was 10 completed surveys per municipality. Out of 697 attempts, there was a total of 118 completed surveys. This represents a 17% response rate. The expected response rate for a telephone survey is between 40%- 70%. The researchers were unable to obtain ten responses from several municipalities for a variety of reasons. Most often, the researchers encountered difficulties finding residents of the desired municipality because many of the communities share identical zip codes and phone exchanges.

⁵ Coplin, William D. and Michael K. O'Leary. <u>Public Policy Skills</u>. Second Ed. Croton-On-Hudson, NY: Policy Studies Associates, 1992.

Though a small sample is used, the data collected from the phone survey are still important to this study. The small sample size may limit the accuracy of the costs and types of service, but the findings are consistent with a recent OCRRA survey which found that "Those hiring private trash hauling companies reported costs from \$112.33 to \$376 per year (*Operation Separation: Rap*, May 1999)." The OCRRA survey also found that "More than half were paying between \$180 - \$240."

Although a truly accurate average is difficult to obtain, both this study and the OCRAA survey highlight the fact that residentially contracted trash collection service is the most expensive method. Costs for residents who contract for trash collection consistently encounter higher costs compared to the other methods of trash collection.

A copy of this study's survey, the codebook of responses, the data spreadsheet of responses, and the respondent log are provided in Appendices E, F, G, and H respectively.

Quality of Data

Data for this study were self-reported by the municipalities and residential respondents. Thus, the accuracy of the data is dependent on the knowledge of the source. Steps were taken to ensure accuracy. For example, at least three responses were collected in those municipalities that do not provide trash collection service in an effort to substantiate the financial information provided.

Averages were used to measure certain items such as cost in the "Citizen Telephone Trash Survey." In some cases, the number of responses is significantly limited and may not represent all ranges of possible answers.

Mistakes made during data entry are a concern in any data analysis activity. Quality-assurance practices used during analysis, such as random checks of data entry, help to minimize this concern.

Draft copies of the report were sent to the town supervisors, village mayors, and city managers of each participating municipality for their revisions. Modifications in the final report were made as a result of their feedback.

Data Analysis

In reporting the data collected in this study, averages were used to determine the figures found in the Findings Section. Figures used in these calculations were obtained from the "Survey on Trash Collection Services in Onondaga County" and the "Citizen Telephone Trash Survey." Although information was collected for the past three years when available, this study exclusively depicts information for the fiscal year 1998. The costs for trash collection include all recycling costs. The following are formulas used to derive the averages:

To find the average annual cost per household of municipality provided trash collection:

	Total Trash Expense	=	Expense per Household
	Total Number of Households		
•	To find the average cost per household	l in areas wit	h a municipal bid:
	Total Trash Expense	=	Expense per Household

Total Number of Households

• To find the average cost per household in areas that use the sticker system and have municipally provided or bidded trash collection:

Total Revenues from Stickers Purchased + Total Contractual or Trash Expense = Expense per Household

Total Number of Households

• For municipalities which have revenues outside of sticker sales (e.g., the City of Syracuse), the expense per household is calculated using the following formula:

Total Trash Expense – Total Trash Revenues = Expense per Household

Total Number of Households

- In all of the findings provided cost was reported as an annual figure. Data that were reported per month or quarter were multiplied by 12 or four, respectively, to reflect the annual cost.
- When looking at the findings, readers should keep in mind that trash collection costs vary by the type of service provided. Readers should use the Profile pages to learn more about a municipality's range of services.

Data Presentation

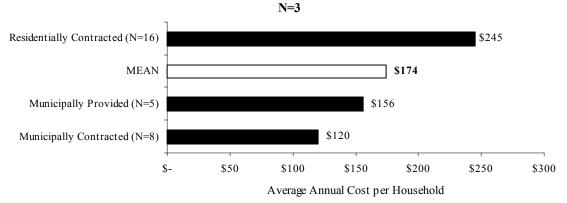
To assist the reader in analyzing the information presented, each bar graph includes descriptive data that provides the following information:

- **Mean** the mathematical average of all responses.
- **Median** the mid-point of all responses.
- **Standard Deviation** a measure of how far scores disperse from the mean. The higher the Standard Deviation, the more spread out the data are from the mean.

III. FINDINGS

1. Municipally contracted trash collection is the least costly service for residents in Onondaga County at an average of \$120 per household in 1998, while individually contracted service by residents is the most costly at an average of \$245. Municipal service averages \$156 per household.

Figure 1:
1998 Average Annual Cost of Residential Trash Collection by Service Type in
Onondaga County
(per Household)



Descriptive Statistics: Mean		Median	Standard Deviation	
All Respondents	\$175	\$156	\$62	

Source: Community Benchmarks Program, 1999 Municipal and Residential Trash Collection Surveys

Comment(s):

• The Town of Clay Special District (Four Seasons Refuse Disposal District) is included as a municipally contracted service type in this calculation.

2. The overall average cost of trash collection in 1998 for all types of services was \$195 per household, ranging from \$66 in the Village of Marcellus to \$354 in the Village of Tully.

Descriptive Statistics:	Mean	Median	Standard Deviation	
All Respondents	\$192	\$204	\$66	

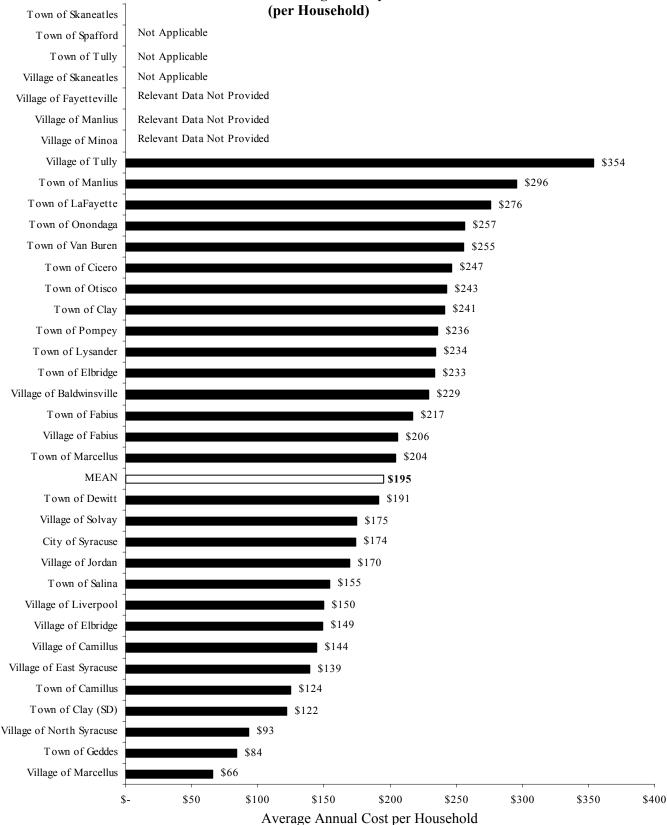
Source: Community Benchmarks Program, 1999 Municipal and Residential Trash Collection Surveys

Comment(s):

- The Village of Skaneateles and the Town of Skaneateles operate independently of OCRRA.
- The Town of Spafford operates a transfer station in which residents can bring their trash. This trash is then taken to an OCRRA facility.
- Four of four (100%) survey respondents in the Town of Tully bring their trash to an OCRRA transfer station independently, at a cost of \$2.00 per bag.
- Clerks in the Villages of Fayetteville, Minoa, and Manlius did not complete the surveys.
- The Village of Camillus provides trash collection service to all commercial property and one industrial property in addition to residential property. Data reported reflect the additional cost.

See next page for graph.

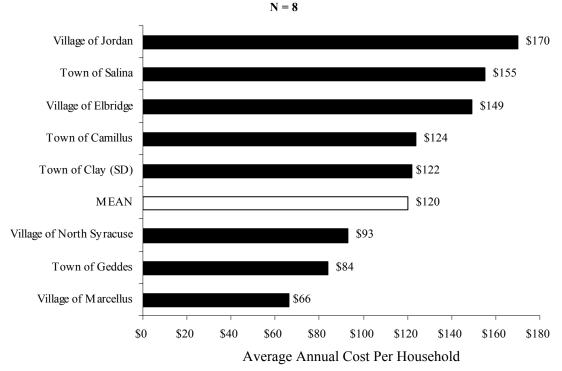
Figure 2
1998 Average Annual Cost of Residential Trash
Collection
In Onondaga County



3. The average cost of municipally contracted trash collection in 1998 was \$120, ranging from \$66 in the Village of Marcellus to \$170 in the Village of Jordan.

Figure 3:

1998 Average Annual Cost of Residential Trash Collection in Onondaga
County for Municipally Contracted Service
(Per Housdehold)



Descriptive Statistics:	Mean	Median	Standard Deviation	
All Respondents	\$120	\$123	\$35	

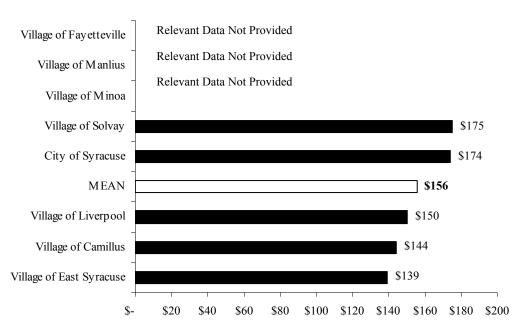
Source: Community Benchmarks Program, 1999 Municipal and Residential Trash Collection Surveys

Comment(s):

• The Town of Clay Special District (Four Seasons Refuse Disposal District) is included as a municipally contracted service type in this calculation.

4. The average cost of municipally provided trash collection in 1998 was \$156, ranging from \$139 in the Village of East Syracuse to \$175 in the Village of Solvay.

Figure 4:
1998 Average Annual Cost of Residential Trash Collection in Onondaga
County for Municipally Provided Service
(Per Household)
N = 8



Average Annual Cost Per Household

Descriptive Statistics:	Mean	Median	Standard Deviation	
All Respondents	\$156	\$150	\$17	

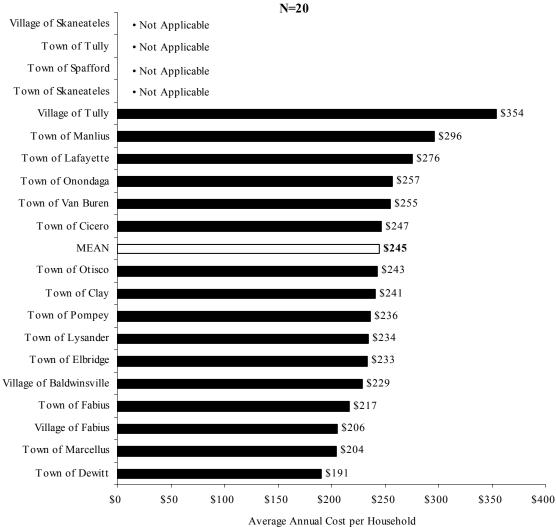
Source: Community Benchmarks Program, 1999 Municipal and Residential Trash Collection Surveys

Comment(s):

- The Villages of Fayetteville, Minoa, and Manlius elected not to answer the survey. Their trash collection service and cost information have not been included in this study.
- The Village of Camillus provides trash collection service to all commercial property and one industrial property in addition to residential property. Data reported reflect the additional cost.

5. The average annual cost of residentially contracted service in 1998 was \$245, ranging from \$191 in the town of Dewitt to \$354 in the Village of Tully.

Figure 5:
1998 Average Annual cost of Residential Trash Collection in Onondaga County for Residentially Contracted Service (per Household)



Descriptive Statistics:MeanMedianStandard DeviationAll Respondents\$245\$239\$40

Source: Community Benchmarks Program, 1999 Municipal and Residential Trash Collection Surveys

Comment(s):

- Four of four (100%) survey respondents in the Town of Tully bring their trash to an OCRRA transfer station independently, at a cost of \$2.00 per bag.
- Many households are for trash collection billed on a quarterly basis. The costs for collection reported by respondents may be based on billing information from the last quarter of 1998. Quarterly rates were converted to annual totals for analysis in this report.
- The Village of Skaneateles and the Town of Skaneateles operate independently of OCRRA.
- The Town of Spafford operates a transfer station in which residents can bring their trash. This trash is then taken to an OCRRA facility.

IV. MUNICIPAL PROFILE PAGES

Municipalities are Listed Alphabetically by Type of Service

Section A:	Profile Notes			
Section B:	Municipality Provides Residential Trash Collection Service			
	City of Syracuse	Page 23		
	Village of Camillus	Page 24		
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	Village of Solvay	Page 27		
Section C:	Municipality Contracts with Private I	Hauler		
	Town of Camillus	Page 29		
	Town of Geddes			
	Town of Salina	_		
	Village of Elbridge	· ·		
	Village of Jordan	· ·		
	Village of Marcellus	S		
	Village of North Syracuse	_		
Section D:	Municipality Creates Special District			
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	Town of Cicero	Page 39		
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	Town of Manlius			
	Town of Marcellus	· ·		
	Town of Onondaga	_		
	Town of Otisco			
	Town of Pompey	•		
	Town of Van Buren			
	Village of Baldwinsville	_		
	Village of Fabius	•		
	Village of Tully	D 54		

MUNICIPALITY PROFILES: SECTION A
Municipality Profile Notes

MUNICIPALITY PROFILE NOTES:

- Municipality profiles were generated for those municipalities in which relevant data was provided (N=29). The Town and Village of Skaneateles, Town of Spafford, and the Town of Tully were not studied because of their distinct trash collection methods. The Villages of Fayetteville, Manlius, and Minoa opted not to complete the survey on trash collection.
- Municipalities were ranked in terms of cost from 1 to 29, with 1 being the least costly and 29 being the most costly.
- Rankings and cost comparisons were made based on 1998 data to reflect available information from residentially-contracted municipalities. Given that that many respondents using residentially-contracted private haulers are billed quarterly, the cost information may be from the last quarter of 1998. Quarterly rates were converted to annual totals for analysis in this report.
- For those municipalities in which residents contract with private haulers, only 1998 data were reported, unless otherwise stated.
- Phone survey respondents' answers varied widely for those respondents within the same municipality and even for those contracting with the same private hauler. Data reported concerning the service provided reflects the majority of the answers given per private hauler per municipality.
- Non-Routine trash pick-up varied widely. A majority of the respondents who claim that their hauler
 will pick up non-routine trash say that they will do so for an additional charge to be determined upon
 evaluation of the trash to be collected.
- "Fee per Hauler" refers to a licensing fee that some municipalities charge private haulers for operating within that municipality. This fee is only imposed in municipalities where residents have to hire their own hauler. Not all municipalities that operate under this system have a licensing fee, however.

MUNICIPALITY PROFILES: SECTION B Municipality Provides Residential Trash Collection Service

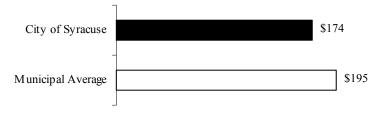
City of Syracuse Village of Camillus Village of East Syracuse Village of Liverpool Village of Solvay

CITY OF SYRACUSE

Municipality Provides Residential Trash Collection Service

Annual Trash	Annual Trash	Annual Cost	Number of	Average Annual	Overall Rank	Compared to
Collection	Collection	to Residents	Households	Cost of Trash		Municipalities
Expenditures	Revenues			Collection per		Providing Similar
				Household		Services
\$7,851,124	\$181,046	\$7,670,07	44,097	\$174	12 of 29	4 of 5

Cost of Trash Service Compared Overall

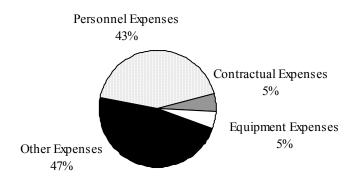


Annual Cost of Residential Trash Collection per Household Compared to Other Municipally-Operated Systems

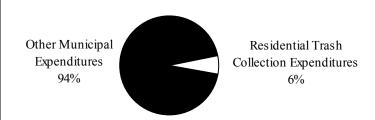


	SERVICE DESCRIPTION				
	Service	City of Syracuse			
1.	Number of Full-Time/Part-	104			
	Time Trash Collection				
	Employees				
2.	Number of Vehicles Used in	49			
	Trash Collection Services				
3.	Provide a Customer Survey	No			
4.	Number of complaints	53			
	Received Annually per 1,000				
	Households				
5.	Service provided	Curbside			
6.	Frequency of Collection	Once Weekly			
7.	Limitation on Number of	3 Cans/Bags			
	Containers Permitted	(total)			
8.	Limitation on Size of	30 gal. Can			
	Containers				
9.	Collects White Goods	Yes			
10.	Collects Yard Debris	Yes			
11.	Collects Tires	Yes			
12.	Collects Batteries	Yes			
13.	Collects Construction Debris	Yes			

Residential Trash Collection Expenditures



Residential Trash Collection as a Percent of Total Municipal Expenditures

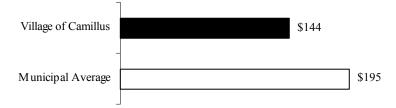


VILLAGE OF CAMILLUS

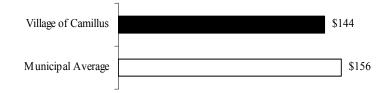
Municipality Provides Residential Trash Collection Service

Annual Trash	Annual Trash	Annual Cost	Number of	Average Annual	Overall Rank	Compared to
Collection	Collection	to Residents	Households	Cost of Trash		Municipalities
Expenditures	Revenues			Collection per		Providing Similar
				Household		Services
\$64,869	\$0	\$64,869	450	\$144	7 of 29	2 of 5

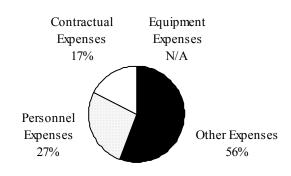
Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Municipally-Operated Systems



Residential Trash Collection Expenditures



	SERVICE DESCRIPTION					
	Service Type	Village of Camillus				
1.	Number of Full-Time/Part-	2				
	Time Trash Collection					
	Employees					
2.	Number of Vehicles Used in	1				
	Trash Collection Services					
3.	Provide a Customer Survey	No				
4.	Number of Complaints	17				
	Received Annually per 1000					
	Households					
5.	Service provided	Curbside				
6.		Once Weekly				
7.	Limitation on Number of	None				
	Containers Permitted					
8.	Limitation on Size of	None				
	Containers					
9.	Collects White Goods	Yes				
10.	Collects Yard Debris	Yes				
11.	Collects Tires	No				
12.	Collects Batteries	Yes				
13.	Collects Construction Debris	Yes*				

Trash Collection as a Percent of Total Municipal Expenditures



- * Construction debris is removed twice annually by the Municipality at no additional charge; it will be removed more frequently for \$30 fee (tipping expenses).
- Trash collection is provided to all commercial property and one industrial property. The data reported includes these additional expenses.

VILLAGE OF EAST SYRACUSE

Municipality Provides Residential Trash Collection Service The Village of East Syracuse uses a Sticker per Bag System

Annual Trash Collection Expenditures and Amount Raised through Sticker Sales	Annual Trash Collection Revenues	Annual Cost to Residents	Number of Households	Average Annual Cost of Trash Collection per Household	Overall Rank	Compared to Municipalities Providing Similar Services
\$230,320	\$0	\$230,320	1655	\$139	6 of 29	1 of 5

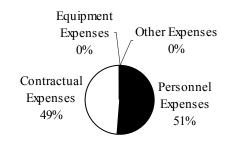
Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Municipally-Operated Systems



Residential Trash Collection Expenditures



Trash Collection as a Percent of Total Municipal Expenditures

	Service Description	I
	Service Type	Village of East Syracuse
1.	Number of Full-Time/Part-Time	4
	Trash Collection Employees	
2.	Number of Vehicles Used in	7
	Trash Collection Services	
3.	Provide a Customer Survey	Yes
4.	Number of Complaints Received	
	Annually per 1000 Households	121
5.	Service provided	Curbside*
6.	Frequency of Collection	Once Weekly
7.	Limitation on Number of	None
	Containers Permitted	
8.	Limitation on Size of Containers	30 gal
9.	Collects White Goods	Yes
10.	Collects Yard Debris	Yes
11.	Collects Tires	No
12.	Collects Batteries	Yes
13.	Collects Construction Debris	Yes

Other Municipal	Residential Trash
Expenditures	Collection
92%	Expenditures
	8%

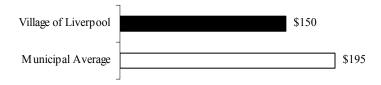
- Trash collection employees come form the Department of Public Works and work only part-time doing trash collection.
- Sticker per bag fees:
 \$0.60 per 15 gal. bag
 \$1.10 per 30 gal. bag
- *Special arrangements can be made for residents with disabilities and seniors for alternative service.

VILLAGE OF LIVERPOOL

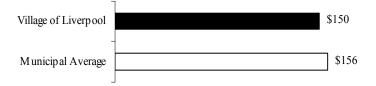
- Municipality Provides Residential Trash Collection Service
- The Village of Liverpool uses a Sticker per Bag System

Annual Trash	Annual	Annual	Number of	Average Annual	Overall Rank	Compared to
Collection	Trash	Cost to	Households	Cost of Trash		Municipalities
Expenditures	Collection	Residents		Collection per		Providing Similar
and Amount	Revenues			Household		Services
Raised through						
Sticker Sales						
\$156,063	\$0	\$156,063	1,040	\$150	9 of 29	3 of 5

Cost of Trash Service Compared Overall

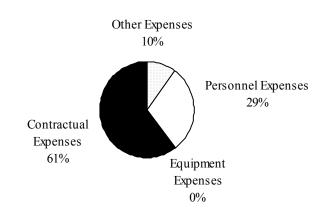


Annual Cost of Residential Trash Collection per Household Compared to Other Municipally-Operated Systems



	SERVICE DESCRIPTION					
	Service Type	Village of Liverpool				
1.	Number of Full-Time/Part-	6				
	Time Trash Collection					
	Employees					
2.	Number of Vehicles Used in	3				
	Trash Collection Services					
3.	Provide a Customer Survey	No				
4.	Number of Complaints	39				
	Received Annually per 1000					
	Households					
5.	Service provided	Curbside				
6.	Frequency of Collection	Once Weekly				
7.	Limitation on Number of	None				
	Containers Permitted					
8.	Limitation on Size of	15 lbs./30 lbs. Bag				
	Containers					
9.	Collects White Goods	Yes				
10.	Collects Yard Debris	No				
11.	Collects Tires	Yes				
12.	Collects Batteries	Yes				
13.	Collects Construction Debris	Yes				

Residential Trash Collection Expenditures



Total Residential Trash Collection Expenses	\$71,660
Total Residential Trash Collection Revenues	\$84,403
Net Revenues from Trash Collection (Revenues – Expenses)	\$12,743

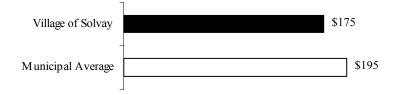
- Trash collection employees come from the Department of Public Works and work only parttime doing trash collection.
- Sticker per bag fees:
 \$0.75 per green sticker for a 15 lbs. bag
 \$1.50 per orange sticker for a 30 lbs. bag
- Stickers are sold at the grocery store, which receives a 5% profit on the sale of the stickers.

VILLAGE OF SOLVAY

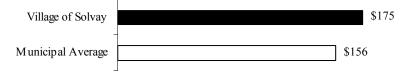
Municipality Provides Residential Trash Collection Service

Annual Trash	Annual Trash	Annual Cost	Number of	Average Annual	Overall Rank	Compared to
Collection	Collection	to Residents	Households	Cost of Trash		Municipalities
Expenditures	Revenues			Collection per		Providing Similar
-				Household		Services
\$507,195	\$0	\$507,195	2900	\$175	13 of 29	5 of 5

Cost of Trash Service Compared Overall

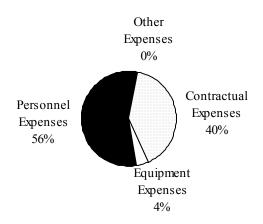


Annual Cost of Residential Trash Collection per Household Compared to Other Municipally-Operated Systems

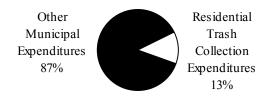


	Service Description					
	Service	Village of Solvay				
1.	Number of Full-Time/Part- Time Trash Collection	6				
	Employees					
2.	Number of Vehicles Being Used in Trash Collection Services	2				
3.	Provide a Customer Survey	No				
4.	Number of Complaints Received Annually per 1000 Households	N/A				
5.	Service provided	Curbside				
6.	Frequency of Collection	Once Weekly				
7.	Limitation on Number of Containers Permitted	None				
8.	Limitation on Size of Containers	50 lbs.				
9.	Collects White Goods	No				
10.	Collects Yard Debris	Yes				
11.	Collects Tires	No				
12.	Collects Batteries	No				
13.	Collects Construction Debris	Yes				

Residential Trash Collection Expenditures



Residential Trash Collection as a Percent of Total Municipal Expenditures



MUNICIPALITY PROFILES: SECTION C

Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

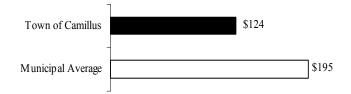
Town of Camillus
Town of Geddes
Town of Salina
Village of Elbridge
Village of Jordan
Village of Marcellus
Village of North Syracuse

TOWN OF CAMILLUS

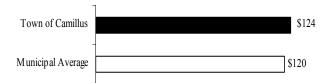
Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

Annual Trash	Number of	Special Trash	Average	Ra	nk in Terms of Cost
Collection	Households	Collection	Annual Cost		Compared to other
Expenditures	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
(1998)	Collection		Collection per		Systems
	Service		Household		-
\$933,052	7495	N/A	\$124	5 of 29	5 of 8

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Service Description					
Service	Town of Camillus				
1. Provide a Customer	No				
Survey					
2. Number of Complaints					
Received Annually per	35				
1000 Household					
3. Service provided	Curbside				
4. Frequency of Collection	Once Weekly				
5. Limitation on Number of	6 Cans				
Containers Permitted	10 Bags				
6. Limitation on Size of	No 50 gal. Drums				
Containers					
7. Collects White Goods	No				
8. Collects Yard Debris	No				
9. Collects Tires	No				
10. Collects Batteries	No				
11. Collects Construction	No				
Debris					

	Hauler(s) Contr	acted
Year	Hauler(s)	Total Cost
1996	C.T.S. (Trash)	\$784,990.83
	Feher Rubbish	
	Removal	\$136,991.40
	(Recyclables)	
1997	C.T.S.	\$784,621.08
	(Trash)	
	Feher Rubbish	
	Removal	\$136,626.40
	(Recyclables)	
1998	C.T.S.	\$796,643.55
	(Trash)	
	Feher Rubbish	
	Removal	\$136,409.00
	(Recyclables)	

Residential Trash Collection as a Percent of Total Municipal Expenditures



Comments:

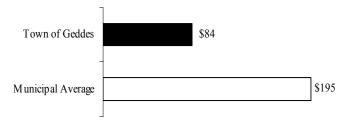
 C.T.S. (Camillus Trash Service) is contracted with to provide trash collection services. Feher Rubbish Removal is contracted with for the collection of recyclables. ı

TOWN OF GEDDES

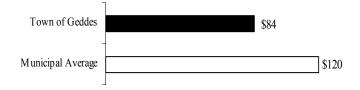
Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

Annual Trash	Number of	Special Trash	Average	Ra	nk in Terms of Cost
Collection	Households	Collection	Annual Cost		Compared to other
Expenditures*	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
(1998)	Collection		Collection per		Systems
	Service		Household		-
\$375,000	4478	N/A	\$84	2 of 29	2 of 8

Cost of Trash Service Compared Overall



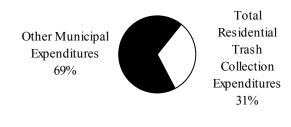
Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Year	Hauler(s)	Total Cost
1996	Waste	\$461,800
	Management	
1997	Waste	\$467,800
	Management	
1998	Waste	\$375,000
	Management	

Hauler(s) Contracted

Residential Trash Collection as a Percent of Total Municipal Expenditures



SERVICE DESCRIPTION					
Service	Town of Geddes				
1. Provide a Customer Survey	No				
2. Number of Complaints					
Received Annually per	10**				
1000 Households					
3. Service provided	Curbside				
4. Frequency of Collection	Once Weekly				
5. Limitation on Number of	8 Clear Bags				
Containers Permitted					
6. Limitation on Size of	75 lbs.				
Containers					
7. Collects White Goods	Yes				
8. Collects Yard Debris	Yes				
9. Collects Tires	No				
10. Collects Batteries	No				
11. Collects Construction	Yes				
Debris					

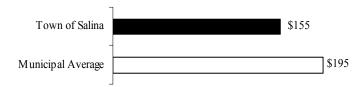
- * Does not include costs for collecting non-routine items.
- ** Number of complaints received annually per household reflects 1997 data. 1998 data were not available

TOWN OF SALINA

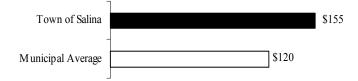
Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

Annual Contractual	Number of	Special Trash	Average	Ra	nk in Terms of Cost
Expenditures	Households	Collection	Annual Cost		Compared to other
(1988)	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
	Collection		Collection per		Systems
	Service		Household		_
\$1,665,882	10,775	Yes	\$155	10 of 29	7 of 8

Cost of Trash Service Compared Overall



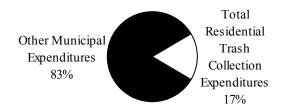
Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



SERVICE DESCRIPTION					
Service	Town of Salina				
1. Provide a Customer	No				
Survey					
2. Number of Complaints					
Received Annually per	N/A				
Household					
3. Service provided	Curbside				
4. Frequency of Collection	Once Weekly				
5. Limitation on Number	None				
of Containers Permitted					
6. Limitation on Size of	None				
Containers					
7. Collects White Goods	Yes*				
8. Collects Yard Debris	Yes				
9. Collects Tires	No				
10. Collects Batteries	No				
11. Collects Construction	No				
Debris					

	Hauler(s) Contracted				
Year	Hauler(s)	Total Cost			
1996	Laidlaw Waste Systems	\$1,624,000.00			
	Waste Management (Yard Waste)	\$136,000.00			
1997	Laidlaw Waste Systems	\$1,476,549.50			
	Laidlaw Waste Systems (Yard Waste)	\$189,333.00			
1998	Laidlaw Waste Systems	\$1,476,549.50			
	Laidlaw Waste Systems (Yard Waste)	\$189,333.00			

Residential Trash Collection as a Percent of Total Municipal Expenditures



- The Town of Salina is divided into eight trash collection districts. Service to these districts is contracted to one private hauler and a uniform fee is charged to all districts. Currently the Town of Salina is working toward consolidating these eight districts.
- * Residents are permitted to leave one large item per week for collection.

VILLAGE OF ELBRIDGE

- Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service
- The Village of Elbridge Uses a Sticker per Bag System

Annual Trash	Number of	Special Trash	Average	Ra	nk in Terms of Cost
Collection	Households	Collection	Annual Cost		Compared to other
Expenditures*	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
(1998)	Collection		Collection per		Systems
	Service		Household		-
\$57,067	383	Sticker per Bag	\$149	8 of 29	6 of 8

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Service Description				
Service	Village of Elbridge			
1. Provide a Customer Survey	No			
2. Number of Complaints				
Received Annually per	N/A			
1000 Households				
3. Service provided	Curbside			
4. Frequency of Collection	Once Weekly			
5. Limitation on Number of	6 Clear Bags			
Containers Permitted				
6. Limitation on Size of	30 gal.			
Containers				
7. Collects White Goods	No			
8. Collects Yard Debris	No			
9. Collects Tires	No			
10. Collects Batteries	No			
11. Collects Construction	No			
Debris				

Hauler(s) Contracted					
Year	Hauler(s)	Total Cost**			
1996	Rubbish Removal	\$36,609.00			
1997	Jerry's Removal	\$30,050.00			
1998	Jerry's Removal	\$31,928.00			

Residential Trash Collection as a Percent of Total Municipal Expenditures



- Sticker per bag fees: \$1.50 per sticker
- * Reflects Contractual Expenditures and amount raised through sticker sales.
- **A pre-determined amount for tipping fees is included in the Village of Elbridge's contractual expenses. The Village reimburses contracted haulers the total amount of tipping fees annually. The figures reported on this page include the contractual expense in addition to annual tipping fees.
- *** Reflects data from 1997 only.
 Total expenditure taken from "Comptroller's Special Report on Municipal Affairs for Local Fiscal year ended in 1997".

VILLAGE OF JORDAN

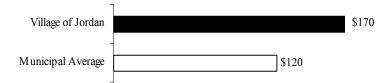
- Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service
- The Village of Jordan Uses a Sticker per Bag System

Annual Trash	Number of	Special Trash	Average Annual	Rank in Terms of Cost	
Collection	Households	Collection	Cost of Trash		Compared to other
Expenditures	Receiving Trash	Programs	Collection per	Overall	Municipally-Contracted
(1998)*	Collection Service		Household		Systems
\$68,000	400	Sticker per	\$170	11 of 29	8 of 8
		Bag			

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Service Description						
Service	Village of Jordan					
1. Provide a Customer Survey	No					
2. Number of Complaints						
Received Annually per	60					
1000 Household						
3. Service provided	Curbside					
4. Frequency of Collection	Once Weekly					
5. Limitation on Number of	6 Clear Bags					
Containers Permitted	_					
6. Limitation on Size of	30 gal.					
Containers						
7. Collects White Goods	No					
8. Collects Yard Debris	No					
9. Collects Tires	No					
10. Collects Batteries	No					
11. Collects Construction	No					
Debris						

Hauler(s) Contracted						
Year	Hauler(s)	Total Cost**				
1996	Jerry's Removal	\$34,100.00				
1997	Jerry's Removal	\$27,800.00				
1998	Feher Rubbish Removal	\$33,994.92				

Residential Trash Collection as a Percent of Total Municipal Expenditures



- Sticker per bag fees: \$1.50 per sticker up to 30 gal.
- * Reflects Contractual Expenditures and amount raised through sticker sales.
- ** A pre-determined amount for tipping fees is included in the Village of Jordan's contractual expenses. The Village reimburses contracted haulers the total amount of tipping fees annually. The figures reported on this page include the contractual expense in addition to annual tipping fees.

VILLAGE OF MARCELLUS

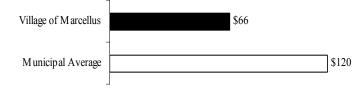
Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

Annual Trash	Number of	Special Trash	Average	Rank in Terms of Cost	
Collection	Households	Collection	Annual Cost		Compared to other
Expenditures	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
(1998)	Collection		Collection per		Systems
	Service		Household		•
\$41,680*	630	N/A	\$66	1 of 29	1 of 8

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Hauler(s) Contracted						
Year	Hauler(s)	Total Cost				
1996	Waste Management	\$40,040				
1997	Waste Management	\$40,040				
1998	Waste Management	\$20,020				
	C.T.S. Trash Service (Recyclables)	\$7,350				

Residential Trash Collection as a Percent of Total Municipal Expenditures

Service Description					
Service	Village of Marcellus				
1. Provide a Customer Survey	No				
2. Number of Complaints Received Annually per Household	0				
3. Service provided	Curbside				
4. Frequency of Collection	Once Weekly				
5. Limitation on Number of Containers Permitted	None				
6. Limitation on Size of Containers	30 gal. Cans				
7. Collects White Goods	Yes**				
8. Collects Yard Debris	Yes **				
9. Collects Tires	Yes**				
10. Collects Batteries	Yes**				
11. Collects Construction Debris	Yes**				



- * Includes \$14,310 for the collection of white goods, yard debris, tires, batteries and construction debris by the highway department.
- ** Collected twice a year by the highway department.
- Loose bags are not allowed, all trash must be in cans
- Contract began in 1998 with C.T.S. (Camillus Trash Service) to provide collection of recyclables.

VILLAGE OF NORTH SYRACUSE

Municipality Contracts with Private Haulers to Provide Residential Trash Collection Service

Annual Trash	Number of	Special Trash	Average	Rank in Terms of Cost	
Collection	Households	Collection	Annual Cost		Compared to other
Expenditures	Receiving Trash	Programs	of Trash	Overall	Municipally-Contracted
(1998)	Collection		Collection per		Systems
	Service		Household		-
\$280,052	3000	N/A	\$93	3 of 29	3 of 8

Cost of Trash Service Compared Overall



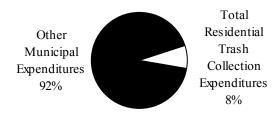
Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Hauler(s) Contracted							
Year	Hauler(s)	Total Cost					
1996	Tousley Trash	\$310,787.00					
1997	Tousley Trash	\$310,787.00					
1998	Capital Environmental Resources Inc.	\$280,052.00					

SERVICE DESCRIPTION Service Village of North Syracuse 1. Provide a Customer No Survey 2. Number of Complaints 17 Received Annually per 1000 Households 3. Service provided Curbside 4. Frequency of Collection Once Weekly 5. Limitation on Number of 10 Cans/Bags **Containers Permitted** (Total) 6. Limitation on Size of 32 gal. Containers 7. Collects White Goods No 8. Collects Yard Debris No 9. Collects Tires No 10. Collects Batteries No 11. Collects Construction No Debris

Residential Trash Collection as a Percent of Total Municipal Expenditures



MUNICIPALITY PROFILES: SECTION D Municipality Creates a Special District for Trash Collection Service

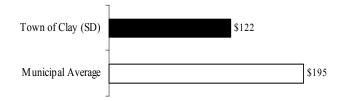
Town of Clay (Four Seasons Refuse Disposal District)

TOWN OF CLAY: SPECIAL DISTRICT

Municipality Sets up a Special District for Trash Collection Service

Annual Trash	Number of	Special Trash	Average	Rank i	n Terms of Cost
Collection	Households	Collection	Annual Cost		Compared to
Expenditures	Receiving Trash	Programs	of Trash		other
(1998)	Collection		Collection per	Overall	Municipally-
	Service		Household		Contracted
					Systems
\$39,812	325	N/A	\$122	4 of 29	4 of 8

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Muncipally-Contracted Systems



Service Description					
Service	Town of Clay Special District				
1. Provide a Customer	No				
Survey					
2. Number of Complaints					
Received Annually per	N/A				
1000 Households					
3. Service provided	Curbside				
4. Frequency of Collection	Once Weekly				
5. Limitation on Number of	None				
Containers Permitted					
6. Limitation on Size of	75 lbs. Can Restriction				
Containers	No Bag Restriction				
7. Collects White Goods	Yes				
8. Collects Yard Debris	Yes				
9. Collects Tires	Yes				
10. Collects Batteries	Yes				
11. Collects Construction	Yes				
Debris					

Hauler(s) Contracted						
Year	Hauler(s)	Total Cost				
1996	Feher Rubbish Removal	\$39,812.50				
1997	Feher Rubbish Removal	\$39,812.50				
1998	Feher Rubbish Removal	\$39,812.50				

Comments:

 Categorized as a municipally contracted system for comparison.

MUNICIPALITY PROFILES: SECTION E

Residents Contract Independently with Private Haulers to Provide Trash Collection Service

Town of Cicero

Town of Clay

Town of Dewitt

Town of Elbridge

Town of Fabius

Town of Lafayette

Town of Lysander

Town of Manlius

Town of Marcellus

Town of Onondaga

Town of Otisco

Town of Pompey

Town of Van Buren

Village of Baldwinsville

Village of Fabius

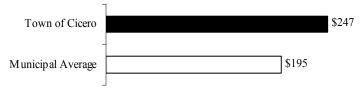
Village of Tully

TOWN OF CICERO

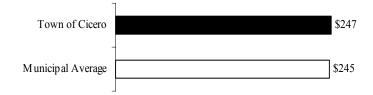
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$247	19	10	53%	24 of 29	11 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	12	\$50			
1997	10	\$50			
1998	5	\$50			

Service Description						
	Haulers					
SERVICE	Capital Environmental Resources	Feher Rubbish Removal	Waste Management			
1. Number of Respondents Using Hauler	2	1	7			
2. Average Annual Cost per Hauler	\$228.00	\$232.00	\$259.75*			
3. Service provided	Curbside	Curbside	Curbside			
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly			
5. Limitation on Number of Containers Permitted	Yes	Yes	Yes			
6. Limitation on Size of Containers	Yes	N/A	Yes			
7. Collects Non-Routine Trash	N/A	Yes**	No			

- Municipality provides leaf and brush collection.
- Data reported reflect charges from the last quarter of 1998 and were converted to yearly totals for comparison.
- *Includes figures from four of seven respondents; the other respondents chose not to report this information.
- ** Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.

TOWN OF CLAY

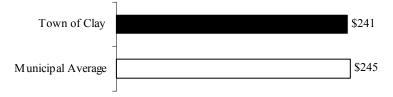
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$241	51	10	20%	22 of 29	9 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	7	\$10			
1997	7	\$10			
1998	7	\$10			

Service Description					
-	Haulers				
SERVICE	Capital Environmental Resources	Feher Rubbish Removal	Waste Management		
1. Number of Respondents Using Hauler	3	1	5		
2. Average Annual Cost per Hauler	\$230.67	\$240.00	\$247.82		
3. Service provided	Curbside	Curbside	Curbside		
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly		
5. Limitation on Number of Containers Permitted	Yes	N/A	Yes		
6. Limitation on Size of Containers	Yes	N/A	N/A		
7. Collects Non-Routine Trash	Yes*	No	No		

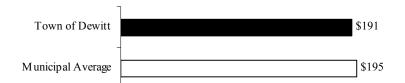
- Municipality provides leaf and brush collection.
- One of ten (10%) respondents disposes of his or her trash independently by alternative means, he or she does not contract with a private hauler.
- Data reported reflect charges from the last quarter of 1998 and were converted to yearly totals for comparison.
- Haulers will remove non-routine trash for an additional free, determined upon estimate.

TOWN OF DEWITT

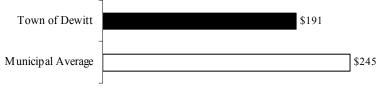
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank ii	n Terms of Cost
Cost of Trash	Residential	Residential	Survey		Compared to
Collection per	Survey Attempts	Survey	Response Rate	Overall	other
Household	-	Responses			Residentially-
		_			Contracted
					Systems
\$191	58	8	14%	14 of 29	1 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	10	\$200*			
1997	10	\$200*			
1998	9	\$200*			

Service Description					
_	Haulers				
SERVICE	Capital Environmental Resources	Syracuse Haulers Waste Removal	Waste Management		
1. Number of Respondents Using Hauler	1	1	6		
2. Average Annual Cost per Hauler	\$200.00	\$172.00	\$192.80		
3. Service provided	Curbside	Curbside	Curbside		
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly		
5. Limitation on Number of Containers Permitted	Yes	N/A	Yes		
6. Limitation on Size of Containers	Yes	Yes	Yes		
7. Collects Non-Routine Trash	No	Yes	No		

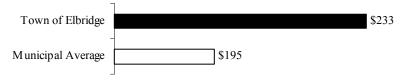
- Municipality provides leaf and brush collection
- One of eight (13%) respondents disposes of his or her trash independently by alternate means; he or she does not contract with a private hauler.
- The Town of Dewitt no longer uses a residentially contracted system of residential trash removal. As of January 1, 1999, the town began contracting with private, commercial haulers.
- Data reported reflect charges from the last quarter of 1998 and were converted to yearly totals for comparison.
- *In addition to a licensing fee, the Town of Dewitt charges each hauler an operating fee of \$50 per truck. Due to the fact that haulers do not all use the same number of trucks, this operating fee could not be included in the "Fee per Hauler" amount.

TOWN OF ELBRIDGE

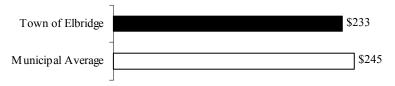
Residents Contract with Private Haulers to Provide Trash Collection Service

A	verage Annual	Number of	Number of	Residential	Rank in Terms of Cost	
	Cost of Trash	Residential	Residential	Survey		Compared to other
	Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
	Household		Responses			Systems
	\$233	65	4	6%	19 of 29	6 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	4	\$100			
1997	3	\$150			
1998	4	\$150			

Service Description			
		Haulers	
SERVICE	D C Morgan	Feher Rubbish Removal	Waste Management
1. Number of Respondents Using Hauler	1	1	1
2. Average Annual Cost per Hauler	\$196.00	\$240.00	\$264.00
3. Service provided	Curbside	Curbside	Curbside
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	Yes	No	N/A
6. Limitation on Size of Containers	N/A	No	N/A
7. Collects Non-Routine Trash	Yes*	No	Yes*

- Municipality does not provide leaf and brush collection.
- One of four (25%) respondents disposes of his or her trash independently by alternative means; he or she does not contract with a private hauler.
- * Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF FABIUS

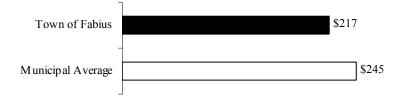
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$217	49	5	10%	17 of 29	4 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Hauler Licensed*					
Year	Number of Haulers	Fee per Hauler			
1996	2	\$25			
1997	4	\$25			
1998	3	\$25			

	Haulers				
Service	Capital Environmental Resources	Syracuse Haulers Waste Removal			
1. Number of Respondents	3	3			
Using Hauler					
2. Average Annual Cost per	\$209.33	\$240.00			
Hauler					
3. Service provided	Curbside	Curbside			
4. Frequency of Collection	Once Weekly	Once Weekly			
5. Limitation on Number of	No	No			
Containers Permitted					
6. Limitation on Size of	No	No			
Containers					
7. Collects Non-Routine Trash	Yes	Yes			

- Municipality does not provide leaf and brush collection.
- One of five (20%) respondents disposes of their trash independently by alternative means; they do not contract with a private hauler.
- Data reported reflect charges from the last quarter of 1998 and were converted to yearly totals for comparison.

TOWN OF LAFAYETTE

Residents Contract with Private Haulers to Provide Trash Collection Service

Avei	rage Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Co	st of Trash	Residential	Residential	Survey		Compared to other
Col	llection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
	lousehold		Responses			Systems
	\$276	50	5	10%	27 of 29	14 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	7	\$50			
1997	7	\$50			
1998	7	\$50			

Service Description Haulers						
Service	Waste Management	Syracuse Haulers	Bistrow Trucking	Capital Environmental Resources		
1. Number of Respondents Using Hauler	1	N/A	1	3		
2. Average Annual Cost per Hauler*	\$210.00*	\$270.00*	\$273.00*	\$351.00*		
3. Service provided	Curbside	Curbside	Curbside	Curbside		
4. Frequency of Collection	Once Weekly	N/A	Once Weekly	Once Weekly		
5. Limitation on Number of Containers Permitted	No	N/A	Yes	No		
6. Limitation on Size of Containers	Yes	N/A	N/A	N/A		
7. Collects Non-Routine Trash	No	N/A	N/A	N/A		

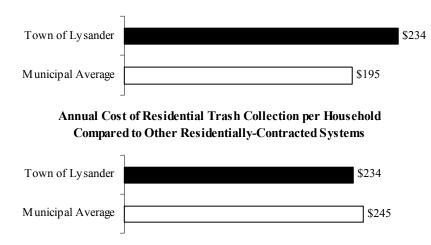
- Municipality provides leaf and brush collection.
- Two of five (40%) respondents dispose of their trash independently by alternative means; they do not contract with a private hauler.
- *Hauler provided pricing information. Non-senior prices were used.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF LYSANDER

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$234	53	9	17%	20 of 29	7 of 16

Cost of Trash Service Compared Overall



Λ	Number of Licensed Haulers						
Year	Number of Haulers*	Fee per Hauler*					
1996	N/A	N/A					
1997	N/A	N/A					
1998	N/A	N/A					

	Haulers					
SERVICE	Waste Management	Green Trash Removal	Feher Rubbish Removal	Jerry's Removal		
1. Number of Respondents Using Hauler	2	2	1	3		
2. Average Annual Cost per Hauler	\$183.00	\$256.80**	\$248.00	\$256.27		
3. Service provided	Curbside	Curbside	Curbside	Curbside		
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly	Once Weekly		
5. Limitation on Number of Containers Permitted	Yes	No	No	Yes		
6. Limitation on Size of Containers	Yes	No	No	Yes		
7. Collects Non-Routine Trash	No	Yes***	Yes***	Yes**		

- Municipality does not provide leaf and brush collection.
- * The Town of Lysander has no approval process that permits private haulers to provide service in the municipality.
- ** Includes figures from one of two respondents; one chose not to report this information.
- *** Haulers will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF MANLIUS

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$296	61	8	13%	28 of 29	15 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Haulers Licensed						
Year	Number of Haulers	Fee per Hauler				
1996	2	\$25				
1997	2	\$25				
1998	5	\$25				

Service Description		Haulers	
SERVICE	Feher Rubbish Removal	Syracuse Haulers Waste Removal*	Waste Management**
1. Number of Respondents Using Hauler	1	1	4
2. Average Annual Cost per Hauler	N/A	\$260.00	\$305.00
3. Service provided	Curbside	Curbside	Curbside/Garage
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	Yes	No	No
6. Limitation on Size of Containers	Yes	No	No
7. Collects Non-Routine Trash	Yes***	No	Yes***

- Municipality does not provide leaf and brush collection.
- Two of eight (25%) respondents dispose of their trash independently by alternative means, they do not contract with a private hauler.
- * It was reported that Syracuse Haulers offers a garage pick-up service at a higher service charge.
- **It was reported that Waste Management offers garage pick-up service at a higher service charge.
- ***Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF MARCELLUS

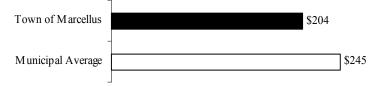
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Residential Stop		Responses			Systems
\$204	47	11	23%	15 of 29	2 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers				
Year	Number of Haulers	Fee per Hauler		
1996	6	\$100		
1997	6	\$100		
1998	3	\$100		

Service Description		
	Hauler	
SERVICE	DC Morgan Trash	
1. Number of Respondents	9	
Using Hauler		
2. Average Annual Cost	\$204.43*	
per Hauler		
3. Service provided	Curbside	
4. Frequency of Collection	Once Weekly	
5. Limitation on Number of	Yes	
Containers Permitted		
6. Limitation on Size of	No	
Containers		
7. Collects Non-Routine	Yes**	
Trash		

Comments:

- Municipality does not provide leaf and brush collection.
- Two of eleven (18%) respondents dispose of their trash independently by alternative means, they do not contract with a hauler
- *Includes figures from seven of nine respondents, two chose not to report this information.
- ** Haulers will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

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TOWN OF ONONDAGA

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rar	nk in Terms of Cost
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$257	47	9	19%	26 of 29	13 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	6	\$100			
1997	6	\$100			
1998	5	\$100			

Service Description			
SERVICE	Bistrow Trucking*	Haulers Capital Environmental Resources	Waste Management**
1. Number of Respondents Using Hauler	2	1	6
2. Average Annual Cost per Hauler	\$272.00	\$237.72	\$254.40***
3. Service provided	Curbside	Curbside	Curbside
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	Yes	Yes	No
6. Limitation on Size of Containers	No	N/A	No
7. Collects Non-Routine Trash	No	No	No

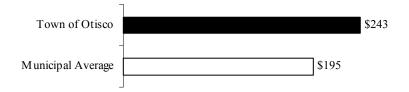
- Municipality provides leaf and brush collection.
- *Reported that Bistrow has a "label" per bag system, maximum of 2 labels per week.
- **It was reported that Waste Management offers a Senior Rate; the amount was not specified
- ***Includes figures from five of six respondents; one chose not to report this information.
- Reported data reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF OTISCO

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rar	nk in Terms of Cost
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$243	29*	7	24%	23 of 29	10 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	7	\$25			
1997	7	\$25			
1998	2	\$25			

Service Description			
	Haulers		
SERVICE	Bistrow Trucking	Syracuse Haulers Waste Removal	
1. Number of Respondents	1	3	
Using Hauler			
2. Average Annual Cost per	N/A	\$242.67	
Hauler			
3. Service provided	Curbside	Curbside	
4. Frequency of Collection	Once Weekly	Once Weekly	
5. Limitation on Number of	No	No	
Containers Permitted			
6. Limitation on Size of	No	No	
Containers			
7. Collects Non-Routine Trash	Yes	Yes	

Comments:

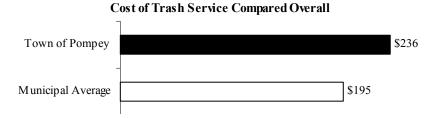
- Municipality does not provide leaf and brush collection.
- Three of seven (43%) respondents dispose of their trash independently by alternative means; they do not contract with a private hauler.
- *A total of 58 phone calls were made to the Town of Otisco and the Town of Tully. The two towns, however, have the same zip code and phone exchange, making it impossible to gauge exactly how many calls were made to each municipality.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

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TOWN OF POMPEY

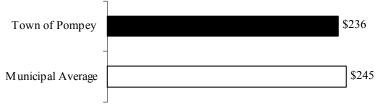
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rar	nk in Terms of Cost
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$236	26	10	38%	21 of 29	8 of 16



Number of Licensed Haulers Year Number of Haulers Fee per Hauler 1996 4 \$25 1997 10 \$25 1998 8 \$25

Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Service Description				
service Description		На	ulers	
SERVICE	Blue Ribbon Sanitation	Capital Environmental Resources	Syracuse Haulers Waste removal	Waste Management
1. Number of Respondents Using Hauler	1	3	3	3
2. Average Annual Cost per Hauler	\$312.00	\$208.67	\$262.67	\$199.74*
3. Service provided	Curbside	Curbside	Curbside	Curbside
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	No	No	No	Yes
6. Limitation on Size of Containers	No	No	No	No
7. Collects Non-Routine Trash	Yes**	No	No	No

- Municipality does not provide leaf and brush collection.
- * Includes figures from two of three respondents, one chose not to report this information.
- ** Haulers will remove non-routine trash for an additional fee, determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

TOWN OF VAN BUREN

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rar	nk in Terms of Cost
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$255	8	4	50%	25 of 29	12 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	10	\$100*			
1997	10	\$100*			
1998	7	\$100*			

Service Description			
SERVICE	Capital Environmental Resources	Haulers DC Morgan Trash	Waste Management
1. Number of Respondents Using Hauler	1	1	1
2. Average Annual Cost per Hauler	\$260.00	\$240.00	\$265.92
3. Service provided	Curbside	Curbside	Curbside
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	Yes	No	Yes
6. Limitation on Size of Containers	No	No	Yes
7. Collects Non-Routine Trash	Yes**	Yes**	No

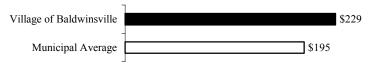
- Municipality does not provide leaf and brush collection.
- One of four (25%) respondents disposes of their trash independently by alternative means, they do not contract with a hauler.
- *In addition to a licensing fee, the Town of Van Buren charges each hauler an operating fee of \$50 per truck. Due to the fact that haulers do not all use the same number of trucks, this operating fee could not be included in the "Fee per Hauler" amount.
- ** Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

VILLAGE OF BALDWINSVILLE

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$229	55	6	11%	18 of 29	5 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Hauler Licensed				
Year	Number of Haulers	Fee per Hauler		
1996	8	\$25		
1997	6	\$25		
1998	6	\$25		

Service Description			
		Haulers	
SERVICE	Feher Rubbish Removal	Green Trash Removal	Waste Management
1. Number of Respondents Using Hauler	2*	1	3
2. Average Annual Cost per Hauler	\$170.00	\$240.00	\$265.04
3. Service provided	Curbside	Curbside	Curbside
4. Frequency of Collection	Once Weekly	Once Weekly	Once Weekly
5. Limitation on Number of Containers Permitted	Yes	No	Yes
6. Limitation on Size of Containers	Yes	No	Yes
7. Collects Non-Routine Trash	Yes**	No	No

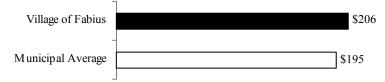
- Municipality provides leaf and brush collection.
- * One respondent using Feher Rubbish Removal reported that his rate used to be higher but was lowered to match Waste Management's rate for comparable service.
- ** Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

VILLAGE OF FABIUS

Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$206	40	3	8%	16 of 29	3 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems

Village of Fabius	\$206	j
Municipal Average		\$245

Number of Hauler Licensed*					
Year	Number of Haulers	Fee per Hauler			
1996	N/A	N/A			
1997	N/A	N/A			
1998	N/A	N/A			

Service Description	
	Haulers
Service	Capital Environmental Resources
1. Number of	2
Respondents Using	
Hauler	
2. Average Annual Cost	\$206.00
per Hauler	
3. Service provided	Curbside
4. Frequency of	Once Weekly
Collection	
5. Limitation on Number	N/A
of Containers	
Permitted	
6. Limitation on Size of	N/A
Containers	
7. Collects Non-Routine	No
Trash	

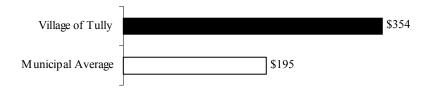
- Municipality does not provide leaf and brush collection.
- One of three (33%) respondents disposes of their trash independently by alternative means; they do not contract with a private hauler.
- *Village of Fabius has no approval process that permits private haulers to provide service in the municipality.
- Data reported reflect charges from the last quarter of 1998 and were converted to yearly totals for comparison.

VILLAGE OF TULLY

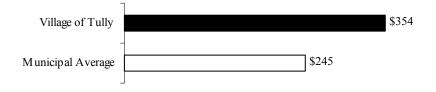
Residents Contract with Private Haulers to Provide Trash Collection Service

Average Annual	Number of	Number of	Residential	Rank in Terms of Cost	
Cost of Trash	Residential	Residential	Survey		Compared to other
Collection per	Survey Attempts	Survey	Response Rate	Overall	Residentially-Contracted
Household		Responses			Systems
\$354	11	4	37%	29 of 29	16 of 16

Cost of Trash Service Compared Overall



Annual Cost of Residential Trash Collection per Household Compared to Other Residentially-Contracted Systems



Number of Licensed Haulers					
Year	Number of Haulers	Fee per Hauler			
1996	3	\$100			
1997	3	\$100			
1998	3	\$100			

Service Description				
-	Haulers			
Service	Capital Environmental Resources	Syracuse Haulers Waste Removal		
1. Number of Respondents Using Hauler	2	1		
2. Average Annual Cost per Hauler	\$354.00	N/A		
3. Service provided	Curbside	Curbside		
4. Frequency of Collection	Once Weekly	Once Weekly		
5. Limitation on Number of Containers Permitted	N/A	No		
6. Limitation on Size of Containers	No	No		
7. Collects Non-Routine Trash	Yes*	Yes		

- Municipality provides leaf and brush collection.
- One of four (25%) respondents disposes of their trash independently by alternative means, they do not contract with a hauler.
- * Hauler(s) will remove non-routine trash for an additional fee to be determined upon estimate.
- Data reported reflect charges from the last quarter of 1998 and were converted to a yearly total for comparison.

V. APPENDICES

A.	Survey Instrument—Municipal Survey	A-i
В.	Codebook of Responses—Municipal Survey	A-ii
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APPENDIX A. SURVEY INSTRUMENT

"SURVEY OF TRASH COLLECTION IN ONONDAGA COUNTY" – MUNICIPAL SURVEY

COMMUNITY BENCHMARKS PROGRAM SURVEY ON TRASH COLLECTION SERVICES IN ONONDAGA COUNTY

JANUARY 1999

Please complete all questions that are applicable to your municipality. If you have any questions, contact Jim Fleming at 443-5590 or Carol Dwyer at 443-3934. Please return the completed survey by <u>Feb. 19</u>. The survey can be faxed to 443-5069 or mailed to:

Jim Fleming
Syracuse University
102 Maxwell
Syracuse NY 13244-1090

	Syracuse, NY 13244-	1090
Municipality		
Name of Person(s) completing the	ne survey.	
1		
		mber
2		
Title	Phone Nui	mber
municipality provides the service throughout the community; C) The municipality does not provide to an OCRRA transfer station; or	e; B) The municipality contract The municipality establishes a significant definition of the contract of the municipality establishes a significant definition of the contract of the contra	llection service in at least four different ways: A) The is with a commercial hauler to provide service pecial district for contracted services with a hauler; D sidents select a private hauler or transport their waste
during 1996-98, please complete	all relevant sections and indicate	ling of waste in your municipality. If it has varied ate the year. Municipalities that respond to section A Municipalities that respond to section B or C should
A) The municipality provides t	rash collection service	
3. List the total number of house	seholds eligible for trash collec	tion service in your municipality.
FY 1996 F	Y 1997	FY 1998

4.	Provide the total number of FTE employees, including s	support staff, responsible for trash collection.								
FY	1996 FY 1997	FY 1998								
5.	What is the frequency of pickup?									
6.	Indicate the type of service available (e.g., curbside, gar	rage)								
7.	Indicate any restrictions placed on the number of trash cans or bags.									
	Number of cans allowed Number of l	pags allowed								
8.	Indicate any restrictions placed on the size of the trash of	an or bag.								
	Size of cans allowed Size of bags allo	owed								
9.	Does your municipality provide for collection of the fol	lowing, even if on a limited basis?								
Wł	nite Goods Yard Waste Batteries Tires	Hazardous Waste Construction Debris								
	Are there any other restrictions in place? What is the total number of vehicles used for trash colle									
	Reminder: Please complete section F or	page 4-5 and the Table on page 6.								
<u>B)</u>	The municipality contracts with a commercial hauler	to provide service for the entire community								
12.	Provide the name of the commercial hauler(s) contracted the amount of the contract.	d by your municipality for trash collection services and								
FY	1996: Contractor Name	Amount								
	Contractor Name	Amount								
FY	1997: Contractor Name	Amount								
	Contractor Name	Amount								
FY	1998: Contractor Name	Amount								
	Contractor Name	Amount								

13. Provide the total	number of households that red	ceive this service.	
FY 1996	FY 1997	FY 1998	
14. What is the frequency	uency of pickup?		
15. Indicate the type	e of service available (e.g., curt	bside, garage)	
16. Indicate any rest	rictions placed on the number	of trash cans or bags.	
Number of cans	allowed Nu	umber of bags allowed	-
17. Indicate any rest	rictions placed on the size of the	he trash can or bag.	
Size of cans allo	wed Size of	f bags allowed	
18. Does the hauler	provide for collection of the fo	ollowing, even if on a limited basis?	
White Goods	Yard Waste Batteries	Tires Hazardous Waste C	onstruction Debris
Are there any other i	restrictions in place?		_
	Reminder: Please	e complete section F on page 4-5.	
C) The municipalit	y establishes a special distric	t for contracted services with a hauler	
19. Name of Distric	t		
	e of the commercial hauler(s) and the amount of the contract.	contracted by your municipality for trash co	ollection services in the
FY 1996: Contractor	Name	Amount_	
Contractor	Name	Amount	
FY 1997: Contractor	Name	Amount	
Contracto	r Name	Amount	
FY 1998: Contractor	Name	Amount	
Contractor	Name	Amount	

vide trash collection or contract	with a private hauler
onduct customer surveys? Yes	No
who receives the results?	
Who receives	
plaints received from residents ab	out trash collection services.
FY 1997	FY 1998
ints are handled in your municipa	lity
7	who receives the results? Who receives Plaints received from residents above 1997

Thank you for completing the survey.

APPENDIX B. CODEBOOK OF RESPONSES CODES FOR ANSWERS TO THE MUNICIPAL SURVEY

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey Codebook

Column Title	Description									
MUNI	Name of municipality									
	The municipality provides trash collection service (worksheet									
	name="municipality")									
HH1996	Number of households eligible for trash collection service - nnnnnn									
HH1997	Number of households eligible for trash collection service - nnnnnn									
HH1998	Number of households eligible for trash collection service - nnnnnn									
FTE1996	Number of FTE employees - nnnn									
FTE1997	Number of FTE employees - nnnn									
FTE1998	Number of FTE employees - nnnn									
PUFREQ	Number of trash pickups per week1=once/week 2=twice/week 3=three times/week 4=other									
SERVICE	Types of services available 1=curbside 2=garage 3=other									
NUMCANS	Number of cans residents are permitted to put out 1=1 can 2=2 cans 3=3 cans 4=4 cans or more 5=unlimited									
NUMBAGS	Number of bags residents are permitted to put out 1=1 bag 2=2 bags 3=3 bags 4=4 bags 5=unlimited									
SIZECANS	Size of cans residents are permitted to put out - nn gallons									
SIZEBAGS	Size of bags residents are permitted to put out - nn gallons									
WHITEGDS	Municipality provides collection of white goods 1=yes 2=no									
YARDWAS	Municipality provides collection of yard waste 1=yes 2=no									
BATTERIES	Municipality provides collection of old batteries 1=yes 2=no									
TIRES	Municipality provides collection of old tires 1=yes 2=no									
HAZWAS	Municipality provides collection of hazardous waste 1=yes 2=no									
CONSTRUC	Muncipality provides collection of construction debris 1=yes 2=no									
RESTRIC	Are there any other restrictions 1=yes 2=no									
VEHICLES	Total number of vehicles used for trash collection - nnnn									
	The municipality contracts with a commercial hauler to provide service for the entire community - (worksheet name="contract")									
COMHL961	Name of commerical hauler contracted with									
AMT961	Amount of the contract - \$nnnnnn									
COMHL962	Name of commerical hauler contracted with 0=no second hauler									
AMT962	Amount of the contract - \$nnnnnn 0=no second hauler									
	#N/A=respondent's answers not applicable in this section									
COMHL971	Name of commercial hauler contracted with									
AMT971	Amount of the contract - \$nnnnnnn									
COMHL972	Name of commercial hauler contracted with 0=no second hauler									
AMT972	Amount of the contract - \$nnnnnn 0=no second hauler									
COMHL981	Name of commercial hauler contracted with									
AMT981	Amount of the contract - \$nnnnnnn									
COMHL982	Name of commercial hauler contracted with 0=no second hauler									
AMT982	Amount of the contract - \$nnnnnn 0=no second hauler									

	The municipality contracts with a commercial hauler to provide
	service for the entire community - (worksheet name="contract")
CHH1996	Number of households receiving service - nnnnnn
CHH1997	Number of households receiving service - nnnnnn
CHH1998	Number of households receiving service - nnnnnn
CPUFREQ	Number of trash pickups per week1=once/week 2=twice/week
	3=three times/week 4=other
CSERVICE	Types of services available 1=curbside 2=garage 3=other
CNUMCANS	Number of cans residents are permitted to put out 1=1 can 2=2 cans 3=3 cans 4=4 cans or more 5=unlimited
CNUMBAGS	Number of bags residents are permitted to put out 1=1 bag 2=2 bags 3=3 bags 4=4 bags or more 5=unlimited
CSIZECANS	Size of cans residents are permitted to put out - nn gallons
CSIZEBAGS	Size of bags residents are permitted to put out - nn gallons
CWHITEGDS	Municipality provides collection of white goods 1=yes 2=no
CYARDWAS	Municipality provides collection of winte goods 1–yes 2–no Municipality provides collection of yard waste 1=yes 2=no
	Municipality provides collection of old batteries 1=yes 2=no
CENTERIES	
CTIRES	Municipality provides collection of old tires 1=yes 2=no
CHAZWAS	Municipality provides collection of hazardous waste 1=yes 2=no
CCONSTR	Muncipality provides collection of construction debris 1=yes 2=no
CRESTRIC	Are there any other restrictions 1=yes 2=no
	The municipality establishes a special district for contracted services with a hauler - (worksheet name="special")
DISTRICT	Name of district
SDCONT961	Name of commerical hauler contracted with
SDAMT961	Amount of the contract - \$nnnnnn
SDCONT962	Name of commerical hauler contracted with 0=no second hauler
SDAMT962	Amount of the contract - \$nnnnnn 0=no second hauler
SDCONT971	Name of commercial hauler contracted with
SDAMT971	Amount of the contract - \$nnnnnn
SDCONT972	Name of commercial hauler contracted with 0=no second hauler
SDAMT972	Amount of the contract - \$nnnnnn 0=no second hauler
SDCONT981	Name of commercial hauler contracted with
SDAMT981	Amount of the contract - \$nnnnnn
SDCONT982	Name of commercial hauler contracted with 0=no second hauler
SDAMT982	Amount of the contract - \$nnnnnn 0=no second hauler
SDHH96	
SDHH90 SDHH97	Number of households receiving service - nnnnnn Number of households receiving service - nnnnnn
SDHH98	Number of households receiving service - nnnnnn
SDPUFREQ	Number of trash pickups per week1=once/week 2=twice/week
CDCEDATOE	3=three times/week 4=other
SDSERVICE	Types of services available 1=curbside 2=garage 3=other #N/A=respondent's answers not applicable in this section
SDNUMCANS	Number of cans residents are permitted to put out 1=1 can 2=2 cans
	3=3 cans 4=4 cans or more 5=unlimited
SDNUMBAGS	Number of bags residents are permitted to put out 1=1 bag 2=2 bags 3=3 bags 4=4 bags 5=unlimited
SDSIZECANS	
SDSIZECANS	Size of cans residents are permitted to put out - nn gallons

	The municipality establishes a special district for contracted
	services with a hauler - (worksheet name="special")
SDSIZEBAGS	Size of bags residents are permitted to put out - nn gallons
SDWHITEGDS	Municipality provides collection of white goods 1=yes 2=no
SDYARDWAS	Municipality provides collection of yard waste 1=yes 2=no
SDBATTERIES	Municipality provides collection of old batteries 1=yes 2=no
SDTIRES	Municipality provides collection of old tires 1=yes 2=no
SDHAZWAS	Municipality provides collection of hazardous waste 1=yes 2=no
SDCONSTR	Muncipality provides collection of construction debris 1=yes 2=no
SDRESTRIC	Are there any other restrictions 1=yes 2=no
	, , , , , , , , , , , , , , , , , , , ,
- 	The municipality does not provide trash collection service.
	Residents selesct a private hauler or transport their waste to an
	OCCRA transfer station - (worksheet name="resident")
APPPRO	Is there an approval process for private haulers 1=yes 2=no
HAULFEE96	\$nnnnn 0=not applicable
HAULNUM96	Number of haulers - nnn 0=not applicable
HAULFEE97	\$nnnnn 0=not applicable
HAULNUM97	Number of haulers - nnn 0=not applicable
HAULFEE98	\$nnnnn 0=not applicable
HAULNUM98	Number of haulers - nnn 0=not applicable
	All municipalities that provide trash collection or contract with a
	private hauler
CUSTSUR	Are customer surveys conducted - 1=yes 2=no
SURFREQ	
WHOREC	Who receives results of the survey 1=municipality 2=hauler 3=other
COMP96	Number of complaints - nnnnn
COMP97	Number of complaints - nnnnn
COMP98	Number of complaints - nnnnn

APPENDIX C. DATA SPREADSHEET SPREADSHEET OF RESPONSES TO THE MUNICIPAL SURVEY

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey—Section A/F

Section A										
MUNI	HH1996	HH1997	HH1998	FTE1996	FTE1997	FTE1998	PUFREQ	SERVICE	NUMCANS	NUMBAGS
City of	44229	44122	44097	106	106	104	1	1	3	3
Syracuse										
Village of	450	450	450	2	2	2	1	1	5	5
Camillus										
Village of	1655	1655	1655	4/pt	4/pt	4/pt	1	1	5	5
E. Syracuse										
Village of	1040	1040	1040	6	6	6	1	1	5	5
Liverpool										
Village of	2900	2900	2900	6	6	6	1	1	5	5
Solvay										

Section A Continued											
					<u> </u>						
MUNI	SIZE CANS	SIZE BAGS	WHITE GDS	YARD WAS	BATTERIE	ES TI	IRES	HAZWAS	CONSTRUC	RESTRIC	VEHICLES
City of Syracuse	30 Gal.	30 Gal.	1	1		1	1	2	1	2	49
Village of Camillus	0	0	1	1		1	1	2	1	2	1
Village of E. Syracuse	0	30 Gal.	1	1		1	2	2	1	1-Sticker	7
Village of Liverpool	60 Gal.	60 Gal.	1	2		1	1	2	1	1 Sticker	3
Village of Solvay	25 Gal.	25 Gal.	2	1		2	2	2	1	2	2

Section F						
MUNI	CUSTSUR	SURFREQ	WHOREC	COMP96	COMP97	COMP98
City of	2	#N/A	#N/A	2359	1955	2334
Syracuse						
Village of	2	#N/A	#N/A	5 to 10	5 to 10	5 to 10
Camillus						
Village of	1	1/yr	1	208	280	208
E.Syracuse						
Village of	2	#N/A	#N/A	40	53	41
Liverpool						
Village of	2	#N/A	#N/A	#N/A	#N/A	#N/A
Solvay						

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey—Section B/F

Section B														
MUNI	COMHL96	AMT961	COMHL 962	AMT962	COMHL971	AMT971	COMHL972	AMT972	COMHL981	AMT981	COMHL9 82	AMT982	CHH 1996	CHH199 7
Town of Camillus	Camillus Trash Service		Feher Rubbish Removal	\$136,991.40	Camillus Trash Service	\$784,621.08	Feher Rubbish Removal	\$ 135,626.40	Camillus Trash Service	796,643.55	Feher Rubbish Removal	\$ 136,409.00	7527	7452
Town of Geddes	Waste Mgt.	\$461,800.00	0		Waste Mgt.	\$467,800.00	0	_	Waste Mgt.	\$ 375,000.00	0	0	4123	4123
Town of Salina	Waste Mgt.	\$1,624,000.00	Waste Mgt.	\$136,000.00	Waste Mgt.	\$1,476,550.00	Waste Mgt. (yard waste)	\$ 189,333.00	Waste Mgt.t	\$ 1,476,550.00	Waste Mgt.	\$ 189,333.00	10,77 5	10,775
Village of Elbridge	Rubbish Removal	\$36,609.00	0		Jerry's Removal	\$30,050.00	0		Jerry's Removal	\$ 32,019.00	0	0	383	383
Village of Jordan	Feher Rubbish	\$34,100.00	0		Jerry's Removal	\$27,800.00	0		Feher Rubbish Removal	\$ 33,994.92	0	0	400	400
Village of Marcellus	Waste Mgt.	\$40,040.00	0	0	Waste Management	\$40,040.00	0		Waste Mgt.	\$ 20,020.00	CTS Trash Service	\$ 7,350.00	630	630
Village of N. Syracuse	Capital	\$310,787.00	0	0	Capital	\$310,787.00	0	0	Capital	\$ 280,052.00	0	0	3000	3000

Section B Co	ontinued													
MUNI	СНН1998	CPUFREQ	CSERVI CE	CNUMCA NS	CNUMBAG S	CSIZECANS	CSIZEBAGS	CWHITEGD S	CYARDWA S	CBATTERI ES	CTIRES	CHAZWAS	CCO NST R	CREST RIC
Town of Camillus	7495		1	4		No 50 Gal. Drums	#N/A	2	2	2	2	2	2	2
Town of Geddes	4478	1	1	4	4	75 Lbs.	75 Lbs.	1	1	2	2	2	1	2
Town of Salina	10,775	1	1	5	5	#N/A	#N/A	1	1	2	2	2	2	2
Village of Elbridge	383	1	1	#N/A	6	#N/A	30 Gal.	2	2	2	2	2	2	1 Sticker
Village of Jordan	400	1	1	#N/A	6	#N/A	30 Gal.	2	2	2	2	2	2	1 sticker
Village of Marcellus	630	1	1	5	#N/A	30 Gal.	#N/A	2	2	2	2	2	2	2
Village of N. Syracuse	3000	1	1	4	4	32 Gal.	32 Gal.	2	2	2	2	2	2	2

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey—Section B/F

Section F						
MUNI	CUSTSU R	SURFREQ	WHOR EC	COMP96	COMP97	COMP98
Town of Camillus	2	#N/A	#N/A	260	260	260
Town of Geddes	2	#N/A	#N/A	37	44	#N/A
Town of Salina	2	#N/A	#N/A	#N/A	#N/A	#N/A
Village of Elbridge	2	#N/A	#N/A	#N/A	#N/A	#N/A
Village of Jordan	2	#N/A	#N/A	24	24	24
Village of Marcellus	2	#N/A	#N/A	0	0	0

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey—Section C/F

Section C										
MUNI	DISTRICT	SDCONT961	SDAMT961	SDCONT962	SDAMT962	SDCONT97	SDAMT971	SDCONT972	SDAMT972	SDCONT981
						1				
,	Four Seasons Refuse Removal District	Feher	39812.5	0	0	Feher	39812.5	0	0	Ferher

Section C Continued								
SDAMT981	SDCONT982	SDAMT982	SDHH96	SDHH97	SDHH98	SDPUFRE	SDSERVICE	SDNUMCANS
39812.5	0	0	325	325	325	1	1	5

Section Continu	_									
SDNUMBA	GS SDSIZ	ZECANS	SDSIZEBAGS	SDWHITEGDS	SDYARDWA	SDBATTE	SDTIRES	SDHAZWAS	SDCONSTR	SDRESTRIC
					S	RIES				
	5	75 lbs	0	1	1	1	1	1	1	#N/A

Section F						
MUNI	CUSTSUR	SURFREQ	WHOREC	COMP96	COMP97	COMP98
Town of Clay	2	#N/A	#N/A	0	0	0

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Survey—Section C/F

Section D							
MUNI	APPPRO	HAULFEE96	HAULNUM96	HAULFEE97	HAULNUM97	HAULFEE98	HAULNUM98
Town of Cicero	1	\$ 50.00	12	\$ 50.00		\$ 50.00	
Town of Clay	1	\$ 10.00	7	\$ 10.00	7	\$ 10.00	7
Town of Dewitt	1	\$ 200.00	10	\$ 200.00	10	\$ 200.00	9
Town of Elbridge	1	\$ 100.00	4	\$ 150.00	3	\$ 150.00	4
Town of Fabius	1	\$ 25.00	2	\$ 25.00	4	\$ 25.00	3
Town of Lafayette	1	\$ 50.00	7	\$ 50.00	7	\$ 50.00	7
Town of Lysander	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Town of Manlius	1	\$ 25.00	2	\$ 25.00	2	\$ 25.00	5
Town of Marcellus	1	\$ 100.00	6	\$ 100.00	6	\$ 100.00	3
Town of Onondaga	1	\$ 100.00	6	\$ 100.00	6	\$ 100.00	5
Town of Otisco	1	\$ 25.00	7	\$ 25.00	7	\$ 25.00	2
Town of Pompey	1	\$ 25.00	4	\$ 25.00	10	\$ 25.00	8
Town of Skaneateles	1	\$ 600.00	3	\$ 900.00	4	\$ 650.00	3
Town of Spafford	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Town of Tully	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Town of Van Buren	1	\$ 100.00	10	\$ 100.00	10	\$ 100.00	7
Village of	1	\$ 25.00	8	\$ 25.00	6	\$ 25.00	6
Baldwinsville							
Village of Fabius	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Village of Skaneateles	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Village of Tully	1	\$ 100.00	3	\$ 100.00	3	\$ 100.00	3

APPENDIX D. CONTACT LOG CHRONOLOGICAL LISTING OF CONTACTS WITH MUNICIPALITIES AND AGENCIES

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Contact Log

Name and Organization/Municipality	Date of Contact	Time Contacted	Point of Contact	Contact Numbers	Activity Description	Team Contact
Suzanne Lalonde, Tom Rhoads - OCRRA	2/2/99	3:00 PM	meeting at OCRRA		Introduction to Onondaga County Resource Recovery Agency. Gave presentation on trash collection cycle, different means of trash removal from residences based on municipality.	Liz Dimatteo, Priya Perera, David Radley
Terry Vargason - Town of Dewitt	2/25/99	9:45 AM	phone	phone 315-446-3392	Spoke with Mr. Vargason. He is very interested in participating in the survey, but he will not be able to get it sent back for another three weeks.	Liz DiMatteo
Naomi McIntyre - Village of Jordan	2/25/99	9:45 AM	phone	phone 315-689-7350	Call to follow up on survey completion progress. Said it would be faxed today.	David Radley
John Shehadi - Town of Clay	2/25/99	9:55 AM	phone	phone 315-652-3800	Spoke with Roberta St. Croix, who works with Mr. Shehadi. The surveys are in the process of being completed and will be sent back within the week.	Liz DiMatteo
Mary Ellen Sims - Village of Liverpool	2/25/99	9:55 AM	phone	phone 315-457-3441	Call to follow up on survey completion progress. Said it should be returned in a couple of days, it needed to be distributed to other departments.	David Radley
Alfred Chemotti - Town of Geddes	2/25/99	10:00 AM	phone	phone 315-468-3600	Spoke with Mr. Chemotti. He said that he had no idea what survey I was talking about and directed me to call Manny Martinez at 315-468-2582.	Liz DiMatteo
Mark Vislosky - Town of Salina	2/25/99	10:05 AM	phone	phone 315-451-4210	Spoke with a secretary. She gave me the number 315-699-7912 to call for Mr. Vislosky.	Liz DiMatteo
Mark Vislosky - Town of Salina	2/25/99	10:15 AM	phone	phone 315-699-7912	Left a voice-mail message, reminding him about the surveys.	Liz DiMatteo
Sandy (last name not provided) - Village of Solvay	2/25/99	2:25 PM	phone	phone 315-468-1651	Call to follow up on survey completion progress. Left message for Cheryl Libertone to return call.	David Radley
Sharon Klementowski - Town of Van Buren	2/26/99	11:00 AM	phone	Reached via town comptroller's office at 315-638-4375. Her fax number is 315-635- 8247	Call to follow up on survey completion progress. She said she had not received it and requested another copy to be sent over by fax.	Priya Perera
Sharon Norcross - Village of Camillus	2/26/99	11:07 AM	phone	phone 315-672-3484	Call to follow up on survey completion progress. She received the survey and had actually met with Carol Dwyer last night. Mentioned that she had all three surveys and would begin them as soon as possible. There had been some question originally as to whether the Village of Camillus would participate.	Priya Perera
Patricia Derby - Village of East Syracuse	2/26/99	11:10 AM	phone	phone 315-437-3541	Call to follow up on survey completion progress. Line was busy.	Priya Perera

Name and Organization/Municipality	Date of Contact	Time Contacted	Point of Contact	Contact Numbers	Activity Description	Team Contac
JoAnna Woodford - Village of Fabius	2/26/99	11:11 AM	phone	private number	Call to follow up on survey completion progress. Left message on home answering machine reminding her about the survey due date and to call Carol Dwyer or Priya Perera if she had any questions.	Priya Perera
Receptionist - Village of Solvay	3/1/99	9:50 AM	phone	phone 315-468-1651	Call to follow up on survey completion progress. Tried to call Cheryl Libertone, left message for her to call back.	David Radley
Mark Fernandez - Village of Solvay	3/1/99	10:41 AM	phone		Called back on behalf of Cheryl Libertone. Said he spoke with Carol Dwyer and sent in survey on Friday.	David Radley
Mary Ellen Sims - Village of Liverpool	3/9/99	11:40 AM	phone	phone 315-457-3441	Called for clarification of responses on survey. Asked for explanation of sticker system and personnel expenses on budget.	Priya Perera
Patricia Derby - Village of East Syracuse	3/9/99	11:50 AM	phone	phone 315-437-3541	Needed clarification on total number of employees and vehicles used for trash collection.	Priya Perera
Sharon Norcross - Village of Camillus	3/9/99	11:55 AM	phone	phone 315-672-3484 fax 315-672-5323	Called to request budget information page from survey. She asked that another copy of budget form be faxed.	Priya Perera
Lynn McCormick - Town of Van Buren	3/22/99	3:08 PM	phone	phone 315-635-3009	Asked her for figure on total number of trucks were operating in Town of Van Buren. Said she would determine and call back with information.	David Radley
Lynn McCormick - Town of Van Buren	3/22/99	3:25 PM	phone	phone 315-635-3010	Faxed information requested on number of trucks operating in Town of Van Buren.	David Radley
Janette Horner - Village of Elbridge	3/22/99	3:40 PM	phone	phone 315-689-3404	Requested information on tipping fee and sticker system.	David Radley
Town Hall Secretary - Village of Jordan	3/23/99	9:40 AM	phone		Had question on sticker system in the Village of Jordan. Left message for Naomi McIntyre.	David Radley
Secretary - Village of East Syracuse	3/23/99	9:45 AM	phone	phone 315-437-3541	Called for Patricia Derby. Told to call back at 11:00 AM.	David Radley
Pat Casale - Village of Liverpool	3/23/99	9:50 AM	phone	phone 315-457-3441	Asked for figures on sticker system revenue. Said she would fax information within the next "day or so."	David Radley
Lynn McCormick - Town of Van Buren	3/23/99	10:25 AM	fax		Received fax on trash hauler fees for 1996-1998 in Town of Van Buren.	
Peg Casale - Village of Liverpool	3/23/99	10:51 AM	fax		Received fax on 1996-1998 data for sticker revenue, total trash revenue, and total trash expenses.	
Naomi McIntyre - Village of Jordan	3/23/99	11:50 AM	phone	phone 315-689-7350	Returned call. Requested information on sticker system which she said she would fax.	David Radley
Secretary - Village of East Syracuse	3/23/99	11:55 AM	phone	phone 315-437-3541	Had a questions on sticker system about the cost per sticker, the number of stickers sold per year, and the revenue from stickers sold in the Village of East Syracuse. Left message for Patricia Derby to call back.	David Radley

Name and Organization/Municipality	Date of Contact	Time Contacted	Point of Contact	Contact Numbers	Activity Description	Team Conta
Patricia Derby - Village of East Syracuse	3/23/99	1:08 PM	phone	phone 315-437-3541	She returned call with responses about sticker system.	David Radley
Village of Jordan	3/23/99	2:21 PM	fax		Received fax on revenue and amount of stickers sold in the Village of Jordan.	
Richard Robb - Town of Dewitt	3/25/99	9:45 AM	phone	phone 315-446-3768	Referred to Barbara Klim.	David Radley
Ron Monsour - City of Syracuse	3/25/99	11:15 AM	phone	phone 315-448-8082	Left a voice-mail message, asking him some questions about the budget information he provided in Syracuse's survey. He returned my phone call the same day, leaving me a voice-mail message and requesting that I do a follow-up call on 3/29.	Liz DiMatteo
Christine Slocum - Town of Salina	3/25/99	11:29 AM	phone	phone 315-457-6661	Called her for clarification of special districts in the Town of Salina. She suggested also speaking with the Assessor, Brad Brennan, who could provide more information on the different districts.	Priya Perera
William Asmus - Village of Liverpool	3/25/99	11:30 AM	phone	phone 315-457-1882	Spoke with Rick who told me that fuel is included in the equipment expenses. He directed me to call Mary Ellen Sims at 315-457-3441 for the budget information I needed.	Liz DiMatteo
Mary Ellen Sims - Village of Liverpool	3/25/99	11:35 AM	phone	phone 315-457-3441	Spoke with Ms. Sims, who told me that on the 1997 and 1998 budget data she gave us, the equipment expenses lines were blank due to the fact that the village purchased no new equipment.	Liz DiMatteo
Sharon Norcross - Village of Camillus	3/25/99	11:49 AM	phone	phone 315-672-3484	Called to check on status of budget questionnaire. Receptionist said she had faxed it out earlier in the day. Norcross was in a meeting.	Priya Perera
Barbara Klim - Town of Dewitt	3/25/99	12:13 AM	phone	phone 315-446-3826	Called with question on the number of trucks in Town of Dewitt. Said she would try to breakdown the information on trucks, it might include commercial haulers.	David Radley
Sharon Norcross - Village of Camillus	3/25/99	2:55 PM	phone	phone 315-672-3484	Called for information on tipping fee. She said there was an additional fee to Town of Camillus for construction debris.	David Radley
Barbara Klim - Town of Dewitt	3/25/99	3:09 PM	fax		Received fax on haulers and vehicles for 1996-1998.	
Town Supervisor's Office - Town of Onondaga	3/25/99	4:05 PM	phone	phone 315-469-3888	Called to confirm that Town of Onondaga has no special district.	David Radley
Assessor's Office - Town of Salina	3/26/99	10:45 AM	phone	phone 315-451-3231	Called for information on Town of Salina special districts. Left message for Brad Brennan.	Priya Perera
Brad Brennan - Town of Salina	3/26/99	1:38 PM	phone	phone 315-451-3231	He returned call. Discussed the explanation of special districts in Town of Salina. Later, transferred call to clerk who gave chronology of special district trash collection in Town of Salina.	Priya Perera

Name and Organization/Municipality	Date of Contact	Time Contacted	Point of Contact	Contact Numbers	Activity Description	Team Contact
Mark Fernandez - Village of Solvay	3/29/99	9:30 AM	phone	phone 315-468-1679	Called to confirm that budget information includes tipping fees.	David Radley
Ron Monsour	3/29/99	9:30 AM	phone	phone 315-448-8082	Left a voice-mail message asking him to call me back before my class or I would get in touch with him in the afternoon.	Liz DiMatteo
Mary Ellen Sims - Village of Liverpool	3/29/99	9:35 AM	phone	phone 315-457-3441	Called to confirm that budget information includes tipping fees.	David Radley
Patricia Derby - Village of East Syracuse	3/29/99	11:15 AM	phone	phone 315-437-3541	Called to confirm that the "operational budget" reported on the survey was the overall cost of trash and to obtain figures on tipping fees.	David Radley
Ron Monsour	29-Mar	2:30 PM	phone call	315-448-8082	Left a voice-mail message asking him to call me back sometime in the afternoon. He did and told me that the City of Syracuse did not include commercial trash removal expenses in their Total Contracted Expenses.	Liz DiMatteo
Suzanne Lalonde - OCRRA	3/30/99	9:05 AM	phone	phone 315-453-2866	Called to request information on yard debris answered other questions as well as she could.	David Radley
Suzanne Lalonde - OCRRA	3/30/99	9:38 AM	fax		Received fax on yard debris	

APPENDIX E. SURVEY INSTRUMENT "CITIZEN TELEPHONE TRASH SURVEY" – RESIDENTIAL SURVEY

COMMUNITY BENCHMARKS PROGRAM

SPRING 1999 CITIZEN TELEPHONE TRASH SURVEY

Caller	Date Time
	Phone Number
Addre	ess
1.	In which municipality do you reside?
	(Note: Make sure to include if the municipality is a Town, Village, or Special District)
2.	Does your municipality provide trash collection service or must you find your own provider?
	MunicipalityResident
	(If resident, go to question 3. If municipality, thank and terminate the phone call.)
3.	What is the name of the hauler?
4A.	Did the hauler offer you more than one choice of service when you signed up? Y
4B.	If Yes, which service did you select?
5.	How long have you used this hauler?
6.	What is the amount you pay each month for trash and recycling collection?
7.	How often does the hauler collect your trash?
8.	Where does the hauler pick up the trash?
9A.	Does the hauler limit the number of containers? Y N
9B.	If Yes, what is the maximum number allowed?

10.	Does the hauler limit the	size of the cor	ntainer?		Y	N	
10B.	If Yes, what is the maxin	num size allow	ved?				_
11.	Which of the following	does the hauler	collect:				
	Leave/Yard Debr	is	Whit	e Goods	Tire	S	
	Hazardous Waste		Cons	struction Debris	Batte	eries	
	None of these		Othe	r:			_
12.	How satisfied were you	with the inform	nation that was	s provided when yo	ou selected yo	our trash	service'
	Very Satisfied	Satisfied	Neutral	Somewhat Disa	ppointed	Disappoi	nted
13.	How satisfied are you wi	th the trash col	llection servic	e you receive?			
	Very Satisfied	Satisfied	Neutral	Somewhat Disa	nnointed	Disannoi	nted

Thank you for your time in completing this survey!

APPENDIX F. CODEBOOK OF RESPONSES CODES FOR ANSWERS TO THE RESIDENTIAL SURVEY

Residential Survey Codebook

Column	Column Titles	Description
A	ID	ID=nnn
B C	MUNI WHO HAUL	1=Town of Cicero 2=Town of Clay 3=Town of Dewitt 4=Town of Elbridge 5=Town of Fabius 6=Town of Lafayette 7=Town of Lysander 8=Town of Manlius 9=Town of Marcellus 10=Town of Onondaga 11=Town of Otisco 12=Town of Pompey 13=Town of Tully 14=Town of Van Buren 15=Village of Baldwinsville 16=Village of Fabius 17=Village of Tully Does municipality or resident choose trash collection service? 1=Municipality 2=Resident
D	HAUL	Name of resident's hauler - 1=Bistrow Trucking 2=Blue Ribbon Sanitation 3=Capital Environmental Resource 4=CTS Trash Service 5=DC Morgan Trash 6=WSI 7=Feher Rubbish Removal 8=Jerry's Removal 9=Appleton Disposal/Rainbow 10=Santaro Trucking 11=Syracuse Haulers Waste Removal 12=Waste Management/USA Waste/Laidlaw 13=Green Trash Removal 14=Resident transports waste to OCCRA facility 15=Other
Е	СНО	Did hauler offer more than one service? 1=Yes 2=No #N/A=no answer/not applicable
F	TUSE	How long has resident used the hauler? 1=< 1 year 2=1 to 3 years 3=4 years or more 4=don't know #N/A=not answer/not applicable
G	PAY	\$nnn.nn/year #N/A=no answer
Н	OFTC	How often does hauler collect trash? 1=once/week 2=twice/week 3=three times/week 4=4 or more times per week #N/A=no answer/not applicable
I	WPU	Where does hauler pick up trash? 1=curb 2=other place besides curb #N/A=no answer/not applicable
J	CLIM	Does hauler limit number of containers? 1=yes 2=no 3=don't know #N/A=no answer/not applicable
K	MCONT	Maximum number of containers=nn #N/A=no answer/not applicable
L	SLIM	Does hauler limit size of containers? 1=yes 2=no 3=don't know #N/A=no answer/not applicable
M	MSIZE	Maximum size of containers=nn gal #N/A=does not apply/no answer
N	LYDEB	Does hauler collect leaf/yard debris? 1=yes 2=no 3=don't know
О	OLDAPL	Does hauler collect white goods? 1=yes 2=no 3=don't know #N/A=no answer/not applicable
P	TIRES	Does hauler collect tires? 1=yes 2=no 3=don't know #N/A=no answer/not applicable
Q	HAZ	Does hauler collect hazardous waste? 1=yes 2=no 3=don't know #N/A=no answer/ not applicable

R	CDEB	Does hauler collect construction debris? 1=yes 2=no
		3=don't know #N/A=no answer/not applicable
S	BATTS	Does hauler collect old batteries? 1=yes 2=no 3=don't know
		#N/A=no answer/not applicable
T	SATIN	Satisfaction with information provided by hauler - 1=very
		satisfied 2=satisfied 3=neutral 4=somewhat disappointed
		5=disappointed
U	SATCOL	Satisfaction with service - 1=very satisfied 2=satisfied
		3=neutral 4=somewhat disappointed 5=disappointed

APPENDIX G. DATA SPREADSHEET SPREADSHEET OF RESPONSES TO THE RESIDENTIAL SURVEY

Community Benchmarks Program

June 1999 Residential Trash Collection in Onondaga County

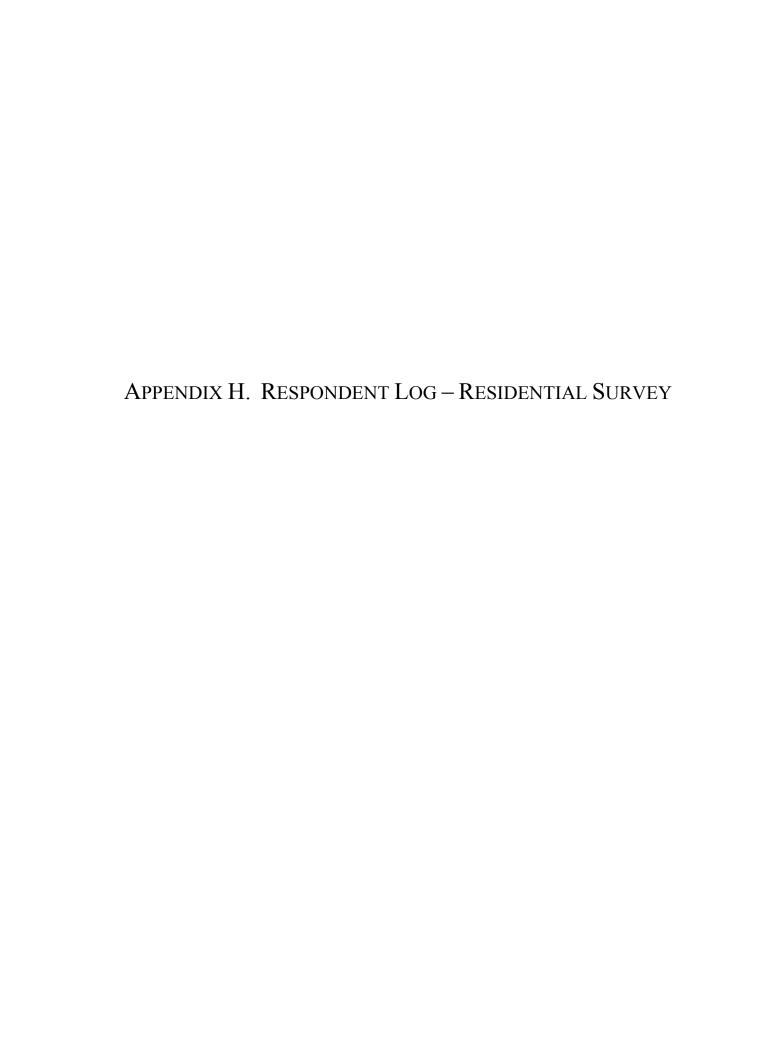
Residential Data Spreadsheet

ID	MUN	WH O	HAU L	СНО	TUSE	PAY	OFTC	WPU	CLIM	MCONT	SLIM	MSIZE	LYDEB	OLDAPL	TIRES	HAZ	CDEB	BATTS	SATIN	SATCOL
BV1	15			1	3	\$ 276.00) 1	1	2	#N/A	1	95 gal.	3	3	3	3	3	3	2	1
BV2	15	2	12	2	2	\$ 260.00) 1	1	1	2 bags	3	#N/A	2	2	2	2	2	2	2	2
BV3	15	2	7	1	3	\$ 160.00) 1	1	1	1 cont	1	54 gal.	2	1	2	2	1	2	2	1
BV4	15	2	7	2	2	\$ 188.00) 1	1	1	3 cont	1	33 gal.	1	1	1	2	1	2	3	2
BV5	15	2	13	2	3	\$ 180.00) 1	1	2	#N/A	2	#N/A	2	2	. 2	2	2	2	3	2
BV6	15	2	12	1	2	\$ 259.12	2 1	1	1	#N/A	1	64 gal.	2	2	. 2	2	2	2	3	2
LY3	7	2	13	2	1	\$ 1,200) 1	1	2	#N/A	2	#N/A	2	1	1	2	1	2	2	1
LY4	7	2	13	1	3	\$ 256.80	1	1	2	#N/A	2	#N/A	1	2	2	2	1	2	2	1
LY5	7	2	12	2	2	\$ 212.00	1	1	2	#N/A	1	#N/A	2	2	2	2	2	2	2	1
LY6	7	2	8	2	3	\$ 256.80	1	1	2	#N/A	2	#N/A	2	2	. 2	2	. 2	2	2	2
LY7	7	2	8	2	3	\$ 256.00	1	1	2	#N/A	2	#N/A	1	1	1	1	1	1	2	1
LY8	7	2	8	2	3	\$ 256.00) 1	1	2	2 cont	1	33 gal.	1	2	. 2	2	1	2	2	1
LY9	7	2	12	1	1	\$ 154.00) 1	1	1	3 cont	1	30 gal.	2	2	. 2	2	2	2	2	4
LY10	7	2	13	2	3	#N/A	1	1	2	#N/A	2	#N/A	3	3	3	3	3	3	2	2
LY11	7	2	7	1	2	\$ 248.00) 1	1	1	8 bags	1	33 gal.	2	3	1	3	1	3	2	4
ON1	10	2	1	1	3	\$ 272.00	1	1	1	2 labels	2	#N/A	2	2	2	2	2	2	3	2
ON2	10	2	1	2	3			1	2	#N/A	2	#N/A	2	2	2	2	2	2	3	2
ON3	10			1	3	\$ 237.72	2 1	1	1	2 cont	3	#N/A	2	2	2	2	2	2	2	2
ON4	10	2	12	2	4	\$ 320.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	3	2
ON5	10	2	12	2	2	#N/A	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	2
ON6	10			1	2	,		1	2	3 bags	2	#N/A	2	2	2	2	2	2	2	2
ON7	10				3			1	1	1 cont	1	#N/A	2	2	2	2	2	2	3	2
ON8	10				4	\$ 244.00		1	1	1 cont	1	#N/A	2	2	2	2	2	2	3	2
ON9	10		12	2	3			1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	2
PM1	12		2	2	2	\$ 312.00	1	1	2	#N/A	2	#N/A	2	1	2	2	2	2	2	2
PM2	12		3	2	1	\$ 226.00		1	2	#N/A	2	,	2	2	2	2	2	2	3	5
PM3	12		3	2	1	\$ 200.00) 1	1	3	#N/A	3	#N/A	2	2	. 2	2	2	2	4	5
PM4	12		2	2	1	\$ 200.00		1	2	#N/A	2	,	2	2	2	2	2	2	3	3
PM5	12	2	11	1	2	\$ 288.00	1	1	1	6 bags	2	#N/A	2	2	2	2	2	2	2	2

ID	MUN I	WH O	HAU L	СНО	TUSE	PAY	OFTC	WPU	CLIM	MCONT	SLIM	MSIZE	LYDEB	OLDAPL	TIRES	HAZ	CDEB	BATTS	SATIN	SATCOL
PM6	12	2	11	2	3	\$ 228.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	2
PM7	12	2	11	2	1	\$ 272.00	1	1	2	#N/A	2	#N/A	2	2	2	2	1	2	2	2
PM8	12	2	12	2	2	#N/A	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	3	2
PM9	12	2	12	2	1	\$ 207.48	1	1	1	3 bags	2	#N/A	3	3	3	3	3	3	5	2
PM10	12	2	12	1	2	\$ 192.00	1	1	3	#N/A	1	33 gal.	3	3	3	3	3	3	2	2
TMN1	8	2	11	1	1	\$ 260.00	1	2	2	#N/A	2	#N/A	2	2	2	2	2	2	3	2
TMN2	8	2	12	1	3	\$ 340.00	1	2	2	#N/A	2	#N/A	2	1	2	2	1	2	2	1
TMN3	8	2	12	1	2	\$ 360.00	1	2	3	#N/A	3	#N/A	2	1	1	2	1	2	2	1
TMN4	8	2	14	#N/A	#N/A	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TMN5	8	2	7	2	3		1	1	1	3 bags	1	33 gal.	2	1	2	2	1	2	1	1
TMN6	8	2	15	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TMN7	8	2	12	2	2	\$ 200.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	1
TMN8	8	2	12	2	2	\$ 320.00	1	1	1	#N/A	1	64 gal.	3	3	3	3	3	3	3	1
TMC1	9	2	5	2	2		1	1	3	#N/A	3	#N/A	3	3	3	3	1	3	2	1
TMC2	9	2	5	2	2	\$ 200.00	1	1	3	#N/A	3	#N/A	1	1	1	3	1	1	2	2
TMC3	9	2	5	2	2	,	1	1	3	#N/A	2	#N/A	2	1	1	3	1	3	2	1
TMC4	9	2	5	1	2	\$ 199.00	1	1	3	#N/A	3	#N/A	2	1	3	3	1	3	2	2
TMC5	9	2	5	2	2		1	1	2	#N/A	2	#N/A	1	2	2	2	2	2	2	1
TMC6	9	2	5	1	3	*	1	1	1	1 can	2	#N/A	2		1	2	1	2	2	2
TMC7	9	2	15	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TMC8	9	2		2	2	\$ 206.00	1	1		2 bags	3	-	3		2	2	2			2
TMC9	9	2	14	#N/A	#N/A	·	1	#N/A	#N/A	#N/A		30 gal.	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TMC10	9	2	5	2	2	\$ 200.00	1	1	2	#N/A	3		2	1	2	2	1	2	2	1
TMN11	9	2	5	1	2	\$ 200.00	1	1	1	1-2 cont	3		2	1	2	2	1	2	2	1
CI1	1	2	3		3		1	1	1	1 cont	1	55 gal	3	3	3	3	3			
CI2	1	2	12		2		1	1	1	1 cont	1	#N/A	2	2	2	2	2	2	2	1
CI3	1	2	12	1	1	\$ 180.00	1	1	1	3 bags		30 gal	2	2	2	2	2	2	4	4
CI4	1	2	7	2	3		1	2	1	#N/A	3		2	1	2	2	2			_
CI5	1	2	12	3	3		1	1	3		3		2	2	2	2	2	2	3	3
CI6	1	2	12	1	3	4	1	1	1	#N/A	1	#N/A	2	1	2	2	2	1	1	1
CI7	1	2	15	2	2	4	1	1	1	2 cont	3	#N/A	2	2	2	2	2	2	2	2
CI8	1	2	12	3	3	\$ 255.00	1	1	1	1 cont	1	95 gal	2	2	2	2	2	2	2	2

ID	MUN I	WH O	HAU L	СНО	TUSE	PAY	OFTC	WPU	CLIM	MCONT	SLIM	MSIZE	LYDEB	OLDAPL	TIRES	HAZ	CDEB	BATTS	SATIN	SATCOL
CI9	1	2		1	3	\$ 340.00	1	1	1	1 cont	1	#N/A	2	2	2	2	2	2	2	2
CI10	1	2	12	1	4	#N/A	1	1	1	2 cont	1	30 gal	2	2	2	2	2	2	2	2
TF1	5	2	14	#N/A	1	\$ 240.00	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	2	1	1	2	1	2	3	3
TF2	5	2	3	1	1	\$ 212.00	1	1	2	#N/A	2	#N/A	2	1	2	2	1	2	3	2
TF3	5	2	3	1	1	\$ 212.00	1	1	2	#N/A	2	#N/A	2	1	2	2	1	2	2	3
TF4	5	2	11	1	1	\$ 240.00	1	1	2	#N/A	2	#N/A	3	2	3	3	3	3	3	2
TF5	5	2	3	3	2	\$ 204.00	1	1	3	#N/A	3	#N/A	2	2	2	2	2	2	2	2
CL1	2	2	14	#N/A	#N/A	\$ 276.00	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
CL2	2	2	14	1	3	\$ 196.00	1	1	1	#N/A	3	#N/A	2	2	2	2	2	1	3	2
CL3	2	2	3	1	3	\$ 200.00	1	1	1	#N/A	1	#N/A	2	2	2	2	2	2	2	2
CL4	2	2	3	1	3	\$ 240.00	1	1	1	6 cont	1	#N/A	2	2	2	2	2	2	2	2
CL5	2	2	7	2	2	\$ 240.00	1	1	1	#N/A	1	#N/A	2	2	2	2	2	2	1	1
CL6	2	2	12	2	3	\$ 328.00	1	1	1	#N/A	1	#N/A	2	2	2	2	2	2	3	3
CL7	2	2	12	2	2	\$ 231.12	1	1	1	#N/A	1	#N/A	2	2	2	2	2	2	2	2
CL8	2	2	12	1	3	\$ 268.00	1	1	1	#N/A	1	#N/A	3	3	3	3	1	3	3	3
CL9	2	2	3	2	3	\$ 252.00	1	1	1	3 bags	3	#N/A	2	2	2	2	2	2	2	2
CL10	2	2	12	3	2	\$ 216.00	1	1	1	2 cont	1	64 gal	1	2	2	2	1	2	2	2
TE1	4	2	7	1	3	\$ 240.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	3	2
TE2	4	2	5	1	3	\$ 196.00	1	1	1	2 cont	3	#N/A	2	1	2	2	2	2	1	1
TE3	4	2					1	1	3	#N/A	3	#N/A	3	3	3	3	3	_	2	2
TE4	4	2	14	#N/A	2	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
LF1	6	2	14	#N/A	1	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
LF2	6	2	3	1	3	\$ 240.00	1	2	2	#N/A	3	#N/A	2	2	2	2	2	2	2	1
LF3	6	2	14	#N/A		\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
LF4	6	2	12	2	3	\$112/quarter	1	1	2	#N/A	1	#N/A	2	2	2	2	2	2	4	4
LF5	6	2	1	3	1	\$ 208.00	1	1	1	#N/A	3	#N/A	3	3	3	3	3	3	2	2
VF1	16	2	3	3	2	*	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	2
VF2	16	2	14	#N/A	1	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
VF3	16	2	3	2	2	\$ 200.00	1	1	1	#N/A	1	#N/A	3	3	3	3	3	3	2	2
TD6	3	2	11	1	2		1	1	3	1	1	96 gal	3	1	3	3	3	3	2	2
TD9	3	2			3	· ·	1	1	1	1 cont		95 gal	1	1	1	3	3	1	1	1
TD13	3	2	12	1	3	\$ 188.00	1	1	1	3 cont	1	30 gal	2	2	2	2	2	2	1	1

ID	MUN		HAU	СНО	TUSE	PAY	OFTC	WPU	CLIM	MCONT	SLIM	MSIZE	LYDEB	OLDAPL	TIRES	HAZ	CDEB	BATTS	SATIN	SATCOL
	I	О	L																	
TD16	3	2	12	1	2	\$ 160.00	1	1	1	1 cont	1	96 gal	2	2	2	2	2	2	3	2
TD20	3	2	12	1	3	\$ 296.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2	2	2
TD23	3	2	3	1	2	\$ 200.00	1	1	1	#N/A	1	33 gal.	2	2	2	2	2	2	3	2
TD27	3	2	14		#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TD30	3	2	12	1	2	\$ 80.00	1	1	1	2 bags	2	#N/A	1	1	1	1	1	1	1	1
TY6	13	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY2	13	2	14	#N/A	#N/A	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY19	13	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY35	13	2	14	#N/A	#N/A	\$2.25/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY12	11	2	11	2	1	\$ 288.00	1	1	2	#N/A	2	#N/A	3	1	3	3	3	3	1	1
TY16	11	2	1	1	3	#N/A	#N/A	2	2	#N/A	2	#N/A	3	1	1	3	1	. 3	1	1
TY20	11	2	11	2	2	\$ 280.00	1	1	2	#N/A	2	#N/A	2	2	2	2	2	2 2	1	1
TY30	11	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY48	11	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY53	11	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY54	11	2	11	2	2	\$ 160.00	1	1	3	#N/A	3	#N/A	1	1	1	1	1	. 1	3	1
TY36	13	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TY37	17	2	11	1	2	#N/A	1	1	2	#N/A	2	#N/A	1	1	1	1	1	. 1	3	1
TY43	17	2	3	2	2	\$ 348.00	1	1	2	#N/A	2	#N/A	1	1	1	1	1	. 1	2	2
TY44	17	2	3	2	1	\$ 120.00	1	1	1	6 cont	2	#N/A	3	3	3	3	3	3	1	1
TVB4	14	2	14	#N/A	#N/A	\$2.00/bag	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
TVB6	14	2	12	2	3	\$ 265.92	1	1	1	1 cont	1	64 gal	2	2	2	2	2	2 2	3	2
TVB8	14	2	3	2	3	\$ 260.00	1	1	1	3 cont	2	#N/A	1	1	1	1	1	1	4	1
TVB9	14	2	5	2	3	\$ 240.00	1	1	2	#N/A	2	#N/A	#N/A	#N/A	2	2	1	. 2	3	1



RESPONDENT LOG – RESIDENTIAL SURVEY

Municipality	# of Attempts Made	# of Responses	Percent Response
Town of Cicero	19	10	52%
Town of Clay	51	10	19%
Town of Dewitt	58	8	13%
Town of Elbridge	65	4	6%
Town of Fabius	49	5	10%
Town of LaFayette	50	5	10%
Town of Lysander	52	9	17%
Town of Manlius	61	8	13%
Town of Marcellus	47	11	23%
Town of Onondaga	47	9	19%
Town of Otisco*	29	7	12%
Town of Pompey	26	10	38%
Town of Tully*	29	4	6%
Town of Van Buren	8	4	50%
Village of Baldwinsville	55	7	12%
Village of Fabius	40	3	7%
Village of Tully	11	4	36%
Total Attempts	*697		
Total Responses	118		
Overall Response Rate	17%		

^{*}Due to the overlap of town borders, and the fact that the towns share the same zip-code and telephone exchange, it is impossible to distinguish the number of attempts made to each town. The total number of attempts made to both towns is 58.

APPENDIX I. COMPARISON CHART A COMPARISON OF MUNICIPALLY-PROVIDED OR MUNICIPALLY-CONTRACTED COSTS AND SERVICES

Community Benchmarks Program June 1999 Residential Trash Collection in Onondaga County Municipal Service Comparison Chart

	Provide a Customer Survey			Limitation on # of Bags/Cans Per	Limitation on Size of Bags/ Cans	Collects White Goods	Collects Yard Debris	Collects Tires		Collects Construction Debris	Average Annual Cost per Household
				Collection							
Municipal											
Contract											
City of Syracuse	N	Curbside	1/week	3	30 Gal.	Y	Y	Y	Y	Y	\$174
Village of Camillus	N	Curbside	1/week	None	None	Y	Y	N	Y	Y	\$144
Village of E. Syracuse	Y	Curbside	1/week	None	30 Gal.	Y	Y	N	Y	Y	\$139
Village of Liverpool	N	Curbside	1/week	None	15 Gal.	Y	N	Y	Y	Y	\$150
Village of Solvay	N	Curbside	1/week	None	20 Gal.	N	Y	N	N	Y	\$175
Municipal Bid											
Town of Camillus	N	Curbside	1/week	10B/6C	50 Gal.	N	N	N	N	N	\$124
Town of Geddes	N	Curbside	1/week	8 Bags	30 Gal.	Y	Y	N	N	Y	\$84
Town of Salina	N	Curbside	1/week	None	None	Y	Y	N	N	N	\$155
Village of Elbridge	N	Curbside	1/week	6 Bags	30 Gal.	N	N	N	N	N	\$149
Village of Jordan	N	Curbside	1/week	6 Bags	30 Gal.	N	N	N	N	N	\$170
Village of Marcellus	N	Curbside	1/week	None	30 Gal.	Y	Y	Y	Y	Y	\$66
Village of N.	N	Curbside	1/week	10	32 Gal.	N	N	N	N	N	\$93
Syracuse											
Special District											
Clay Special District	N	Curbside	1/week	None	Y	Y	Y	Y	Y	Y	\$122