

Solid Waste Authority of Palm Beach County 1997 Residential Generation Study

*The Estimated Relative and Total Solid Waste and
Vegetation Generation by Residential Generator Class
July 1, 1996 to June 30, 1997*

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Introduction

A twelve month study was undertaken to determine the waste generation characteristics of residential property in Palm Beach County, FL. The purpose of the study was to estimate the quantity of residential waste generated in the County and the relative generation characteristics of different types of residential housing to provide a rational basis for the Solid Waste Authority Annual Residential Special Assessment ("Assessment"). This study was designed and conducted by SWA staff. Assistance and coordination was provided by the participating haulers, Waste Management, Sunburst Sanitation, Browning Ferris Industries, The City of Belle Glade, The Village of Palm Springs, and the Village of North Palm Beach. This study was carried out from July 1996 through June 1997. The previous study was completed in 1992 with the results presented by DUS Consultants (*1992 Residential Generation Study, August 18, 1992*). The SWA conducts the Residential Generation Study periodically.

The SWA assesses the residents and businesses of Palm Beach County for the cost of solid waste disposal on an annual basis on the property tax bill. Currently the SWA assesses residences for 100% of the annual disposal cost related to residential property and assesses commercial property for approximately 60% of the disposal cost related to commercial activity, with the balance funded through tipping fees.

The SWA groups residential dwellings into four categories: Single Family ("Category 1"), Mobile Homes ("Category 3"), Multi-Family units in buildings of 4 units or less ("Category 2"), and Multi-Family units in buildings of 5 units or more ("Category 4"). Subsequent to the 1992 study and due to their similar generation characteristics, Category 2 and Category 4 units have been combined into one category.

The assessment is calculated by multiplying the calculated generation rate by the number of households in each category and summing the result to determine the total residential generation in tons. Based on a similar estimate for commercial property, the portion of the annual budget related to residential property is determined. The annual assessment is calculated by multiplying the calculated generation rate in tons per year times the average cost per ton in the adopted budget.

Generation Study Methodology

The goal of the 1997 Residential Generation Study was to estimate the average annual tonnage of solid waste generated by each of the four types of residential dwellings, as defined above. The methodology employed was designed to sample as many households as possible in an efficient manner, to minimize the operational impact on the haulers, to ensure that only waste from the designated route homes was placed in the truck, and to properly account for abnormalities, which unavoidably occur.

Four separate samples were developed, one for each of the four types of residential dwellings. These samples consist of routes, which in turn consist of dwelling units. Rather than sample individual dwelling units, which is difficult and costly, the SWA sampled a number of collection routes from a pool of potential routes, as was done in the previous studies. For each route, total solid waste and vegetation generation was measured for one week in each of 12 consecutive months. The average generation rate per household per route per week was calculated by dividing the net weight of the truck(s) (gross weight - tare weight) by the number of dwelling units on the route. These values are then used to generate summary statistics. The use of twelve monthly observations automatically takes into account vacancies and seasonality.

Every truck was met in the morning by a SWA Customer Service Field Representative who was assigned to the study. The Field Representative's responsibility was to determine that the vehicle was empty, to follow the vehicle on the route to ensure that the waste from all of the houses on the route and only the houses on the route were collected, to note any exceptions, and to obtain a copy of the scale ticket at the disposal facility.

Any exceptions, if not major, were subsequently accounted for as an adjustment to the calculated waste tonnage. Exceptions that were considered major resulted in the route being rerun at a later date. The minor exceptions can be broken into three categories.

The first type involves the collection of small amounts of waste from non-conforming units, such as clubhouses and units of the wrong type. Allowances are made for this in order to minimize the operating impact on the haulers and to ensure that sufficient routes are available for the study. The net weights have been adjusted downward to account for non-conforming waste using reasonable assumptions. These adjustments are presented in Appendix B.

The second type involves waste that was either not collected because it was too bulky and left for a clam truck, such as vegetation and logs, or vegetation that was collected and disposed of at a recycling facility that lacked a scale. Several of the routes in the study had designated clam truck routes but others did not. For those that did not, if waste was not collected, the volume and type of material was calculated and noted by the Field Representative and reasonable densities have been used to calculate the weight and adjust the route tonnage. In the case of unweighed vegetation, the volume of vegetation in the truck was determined by observation and adjusted to weight using a density factor. Again, these adjustments are presented in Appendix B.

Third, the Belle Glade mobile home route required special treatment due to the commingling of vegetation and bulk trash. The Field Representative estimated the amount of vegetation commingled in the trash loads by volume and an adjustment was made to increase the vegetation quantity and decrease the garbage quantity accordingly.

Due to the difficulty in obtaining clean high density multi-family routes for the study due to the fact that many are serviced by compactors and the homes are often serviced with commercial establishments, an alternative methodology was employed for all but one Category 4 route. Rather than follow a route truck, the SWA used available scale data and the container decal number to determine the disposal quantity. The SWA requires all collection vehicles and roll-off containers to bear a SWA decal for identification in the scale system. The SWA identified the decal number for those communities selected to be in the study and ran a monthly report to identify the total waste disposed. Periodic visits were made to the communities to ensure that the container had not changed.

Route Selection Criteria

In an effort to generate a set of sample routes which is representative of the Palm Beach County population, a thorough review of data from the 1990 census was conducted. Households were grouped into two geographical categories, urban and rural, and four economic categories, based on property value, consisting of low, medium low, medium high, and high income. Based upon this evaluation, a list of example routes was created. SWA Customer Information Services personnel met with the haulers and the cities to obtain a pool of routes available for selection. The criteria for the selection of routes was as follows:

- 1) Routes must be comprised of a single type of residential dwelling.
- 2) Routes should result in a minimal disruption to haulers' existing routes.
- 3) Routes must include only residential property.
- 4) Routes must allow for both garbage/trash and vegetation to be sampled.
- 5) Route mix must include both urban and rural communities and a cross-section of economic levels.

SWA staff met with the haulers and the cities that expressed an interest in participating in the study. Once the haulers and cities presented the routes they believed were feasible, staff evaluated them in terms of the sample size and demographics. SWA staff then returned to the haulers and negotiated the inclusion of additional routes to satisfy the demographic and sample size requirements. A goal in the selection process was to achieve at least a 5% sample size. The number of units sampled is presented in Table 1.

Due to the limited number of routes comprised of a single type of residential dwelling, the selection process was non-random, however the sample is reasonably representative. Several factors affect the availability of routes. However, the most critical factors are the requirement that the routes consist of only one type of dwelling and the willingness of the haulers to modify their existing routes for one week out of the month. These modifications result in decreased efficiencies, increased trips to disposal facilities, and operational difficulties.

Table 1: Sample Size

Type	Total Dwellings	% of Total Dwellings	Dwellings in Sample	% of Dwellings Sampled
1	217,624	41.92%	13,626	6.26%
2	88,200	16.99%	2,788	3.16%
3	22,453	4.33%	3,125	13.92%
4	190,838	36.76%	7,722	4.05%
	519,115	100.00%	27,261	5.25%

Although the sample size for the Category 2 and Category 4 dwellings is under five percent, the 95% confidence interval of the combined Category 2 and Category 4 dwellings is approximately 9% of the mean, which is reasonable.

The sample is reasonably representative of the population of residential dwellings in the County, as is demonstrated by the schedule on the following page.

Statistical Analysis

A considerable amount of data was collected during the study. The data recorded during the study consisted of the following for each route on each route day:

- 1) Date
- 2) Route Number
- 3) Units on Route
- 4) Series Number (month of study)
- 5) Weight Ticket Number(s)
- 6) Truck Number
- 7) Waste Type
- 8) Gross Weight
- 9) Tare Weight
- 10) Net Weight
- 11) Notes
- 12) Other (Weather, exceptions)

This data was encoded onto route sheets. The route sheets were then returned to the office, reviewed by supervisory staff, and the data was entered into a database management system. The comments were reviewed and a log of exceptions was created. This log is presented in Appendix B. When appropriate, an adjusting entry was entered into the database. The majority of the adjustments were required to record

Table 2: Generation Study Demographics

Single Family							
Route	Description	Urban	Rural	Low	Med. Low	Med. High	High
10	Bayhill, Rustic Lakes, Caloosa Park		1			0.50	0.50
9	Lox River Road, Eagles Nest	1				0.75	0.25
8	Palm Beach Country Estates		1			1.00	
29	Cam Estates, Woodcrest, Overbrook	1		0.50	0.50		
26	Counterpoint Estates	1		0.50	0.50		
40, 41	Palm Springs	2			2.00		
12	Biltmore Terrace, Lawrence Grove, Princeton	1			0.75		0.25
28	Winston Trails, Comcept Homes	1			0.75	0.25	
11	Rainbow Lakes, Estates, Bay Estates	1				1.00	
13	Polo Club	1					1.00
4	American Homes	1			1.00		
5	Boca Greens, Boca Woods	1				0.50	0.50
25	Lakes of Sherbrooke	1				1.00	
46	North Palm Beach	1			0.25	0.75	
		13	2	1.00	5.75	5.75	2.50
Study Breakdown		87%	13%	7%	38%	38%	17%
Demographics Based on 1990 Census		89%	11%	19%	38%	17%	26%

Multi-Family							
Route	Description	Urban	Rural	Low	Med. Low	Med. High	High
3	Whisperwalk	1				0.50	0.50
31	Cannongate	1			1.00		
53	Chalet 4	1			1.00		
54	Highpoint	1				1.00	
6	Century Village	1			0.50	0.50	
47	Savannah Lakes	1				1.00	
48	Mahogany Bay	1		0.50	0.50		
49	Island Reach	1			0.50	0.50	
50	Arbor Oaks	1			0.50	0.50	
51	San de Vance	1					1.00
52	Runaway Bay	1		0.50	0.50		
		11	0	1.00	4.50	4.00	1.50
Study Breakdown		100%	0%	9%	41%	36%	14%
Demographics Based on 1990 Census		95%	5%	17%	34%	12%	36%

Mobile Homes							
Route	Description	Urban	Rural	Low	Med. Low	Med. High	High
2	Watergate	1			1.00		
15	Sunny South/Sand and Sea	1				1.00	
18	Belle Glade	1		1.00			
30	Palm Lakes Coop	1				1.00	
		4	0	1.00	1.00	2.00	-
Study Breakdown		100%	0%	25%	25%	50%	0%
Demographics Based on 1990 Census		95%	5%	19%	38%	17%	26%

uncollected or unweighed vegetation. Similar adjustments were made in previous generation studies, and as in those cases, these adjustments did not have any adverse consequences on the outcome.

A record was created for each weight ticket. Multiple tickets for each route for each series in the study were summed and the average generation rate per household per week was calculated by dividing by the number of households on the route. Several routes experienced either an increase or decrease in the number of dwellings serviced. When a change in the number of units was observed, the number of units was changed for all future observations. Several communities experienced significant growth during the study, particularly Route 28 (Winston Trails) and Route 12 (Princeton Place). These changes were the result of new construction. For routes in which growth occurred, Certificate of Occupancy (CO) data was reviewed and unit count adjustments were made with a one month lag to account for move-in.

The Residential Generation Study Data Summary is presented in Appendix A of the report. For each unit type (Category 1, Category 2 & 4, and Category 3), summary statistics are presented consisting of the mean generation per unit per week, the mean standard error, which is a measure of variability about the mean, and a 95% confidence interval. The mean standard error is a measure of the error associated with the estimate of the average generation rate and is a function of the number of observations, the variation in the weight per unit between routes, and the variation in the weight per unit within routes due to natural and seasonal fluctuations. The 95% confidence interval indicates the range within which under repeated trials the calculated mean will fall 95 out of 100 times.

Results for “Category 1” Dwellings, Single Family Homes

Fifteen single family home routes were studied over a period of a year. Twelve monthly observations, consisting of twice a week garbage, trash, and bulk collection (included with the garbage and trash), and once a week vegetation collection were taken over the course of the study. The study indicates that the mean generation rate for garbage and trash equals 42.38 pounds per unit per week, which equates to 1.10 tons per year. A 95% confidence interval was calculated to be ± 1.78 pounds per unit per week, amounting to 4.2% of the mean.

Single family vegetation generation is estimated at 32.82 pounds per unit per week (.85 tons per year) with a mean standard error of 1.75 and a 95% confidence interval of 3.42 (10.4%). The seasonal variations in vegetation generation contribute to the relatively high variance.

Results for “Category 2” and “Category 4” Dwellings, Multi-Family

Subsequent to the previous generation study, the Authority ceased treating the Category 2 and Category 4 dwellings as separate classifications. This was primarily due to the fact that in many communities condominium and apartment units of identical size and occupancy exist in varying configurations, placing them in different categories when their generation characteristics are similar.

The study consisted of eleven multi-family routes. The mean generation rate for garbage as determined by the study was 27.40 pounds per unit per week, which equates to .71 tons per year, with a mean standard error of 1.30 and a 95% confidence interval of ± 2.54 pounds per unit per week ($\pm 9.3\%$).

Results for “Category 3” Dwellings, Mobile Homes

The mean generation rate for garbage and trash for the four mobile home routes studied equaled 42.42 pounds per unit per week, or 1.10 tons per year, with a mean standard error of 3.13 and a 95% confidence interval of 6.14, or 14.5%. The generation characteristics within the mobile home category are very diverse, with extremely high generation in the Belle Glade route, which is a rural, low income route, and the lower generation rates in the more upscale routes in the urban east, such as Palm Lakes Coop, which is a retirement community with many seasonal residents.

Mobile home vegetation generation is estimated at 22.35 pounds per unit per week, or .58 tons per year. The mean standard error and 95% confidence interval are relatively high at 2.29 and 4.50 pounds per unit per week. Again, the seasonality of vegetation generation and the high generation rate in the Glades were the causal factors in the high error measurements.

Comparison to Previous Results

The following table presents a comparison of the currently calculated rates to the Authority’s existing rates.

Table 3: Results and Comparison to Prior Study

	Garbage and Trash			Vegetation			
	Pounds per Week per Unit	Tons per Year per Unit	Tons per Year	Pounds per Week per Unit	Tons per Year per Unit	Tons per Year	
Proposed Rates							
Single Family	217,624	42.38	1.10	239,386	32.82	0.85	184,980
Mobile Homes	22,453	42.42	1.10	24,698	22.35	0.58	13,023
Multi-Family	279,038	27.40	0.71	198,117	-	-	0
Total Residential			462,202			198,003	
Existing Rates							
Single Family	217,624		1.69	367,785		0.30	65,287
Mobile Homes	22,453		0.97	21,779		0.17	3,817
Multi-Family	279,038		0.63	175,794			
Total Residential			565,358			69,104	
Difference			(103,156)			128,899	

Total estimated single family generation is almost identical to the previous estimate at 1.95 tons per year, versus 1.99 tons per year. The composition of the generation changed considerably as a result of the separate collection of vegetation necessitated by the ban on yard waste from lined landfills, effective January 1, 1992. The above results reflect a 34.9% decrease in single family garbage generation and a 183.3% increase in the vegetation generation rate over the rate currently in use. It must be noted that this study represents the first time the SWA has included vegetation collection as a separate component in the generation study, as the shift in vegetation from the garbage stream occurred subsequent to the previous generation study. The rates currently in use were estimated based on delivered quantities.

The results for mobile homes indicate higher average generation than determined in the previous study, with an increase from 1.14 tons to 1.68 tons per year. The rates determined in this study reflect an increase in garbage generation from .97 to 1.10 tons per year, or 13.4%, and an increase in vegetation generation from .17 to .58 tons per year, or 341%, due to increased separation.

Estimated Solid Waste Generation

Based upon the assumed unit counts provided by the Authority and the calculated generation rates, the total estimated annual residential garbage and trash tonnage is 462,202 tons, compared to 565,358 tons, based on the results of the prior study. This calculation is presented in Table 3.

A reasonable test of the validity of the generation study is to determine how well the study predicts solid waste generation. Again, the SWA assessment program includes both a residential and a commercial component. The SWA assesses for garbage and trash generation as these materials are defined in the Authority's tipping fee schedule.

Based upon the commercial square footage in the 1995/1996 Assessment Roll, the last full year for which data is available, and the commercial generation rates determined in the Commercial Generation Study (*Commercial Generation Study, D.Pellowitz, May 22, 1995*), the estimated total commercial generation for the 1995/1996 year was 461,157 tons. Applying the newly calculated residential generation rates to the number of households in the 1995/1996 Assessment Roll, the total residential generation estimate would have equaled 446,835 tons.

Summing the residential and commercial results produces total estimated garbage and trash generation of 907,992 tons. During the 1995/1996 fiscal year, the Authority received a total of 902,766 tons of garbage and trash. For that year, the estimate produced by summing the two study results was within 0.6% of the actual garbage and trash generation as measured by the Authority scales. Based upon these results, it appears that the studies when taken together are an accurate predictor of garbage and trash generation in Palm Beach County.

Conclusion

The 1997 Residential Generation Study was conducted over a twelve month period and was completed on June 30, 1997. The results of the study have been presented and are summarized in Table 3. The most notable change in relation to the previous study is the significant decrease in single family garbage and trash generation from 1.69 to 1.10 tons per unit per year due to the diversion and separate collection of vegetation. Also notable is the relatively high vegetation generation rate in the mobile home category of .58 tons per unit per year, which is 68% of the single family rate.

When viewed in conjunction with the Authority's commercial generation rates, evidence suggests that the Residential Generation Study is an accurate predictor of solid waste generation. Using the 1995/1996 year as a baseline, the combined garbage and trash generation for the residential and commercial generators is estimated at 907,992 tons versus 902,766 tons received, a difference of six tenths of one percent (0.6%). Total residential garbage and trash generation based on current unit counts is estimated at 462,202 tons. Total vegetation generation is estimated at 198,003 tons.

I would like to recognize the excellent work done by the SWA Customer Information Services staff in collecting and maintaining the data and also the considerable cooperation and assistance of the haulers and municipalities who participated in the study, without whose assistance, this study could not have been completed.

Appendix A

Residential Generation Study Data Summary

Residential Generation Study Data Summary

03-Dec-99

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
res	1	4	1	American Homes	1,030	56,308	54.67
res	1	4	2	American Homes	1,030	57,580	55.90
res	1	4	3	American Homes	1,030	47,740	46.35
res	1	4	4	American Homes	1,030	47,400	46.02
res	1	4	5	American Homes	1,030	43,760	42.49
res	1	4	6	American Homes	1,030	43,960	42.68
res	1	4	7	American Homes	1,030	53,400	51.84
res	1	4	8	American Homes	1,030	50,120	48.66
res	1	4	9	American Homes	1,030	51,000	49.51
res	1	4	10	American Homes	1,030	51,500	50.00
res	1	4	11	American Homes	1,030	51,540	50.04
res	1	4	12	American Homes	1,030	51,440	49.94
res	1	5	1	Boca Greens/Boca Woods	1,231	20,488	16.64
res	1	5	2	Boca Greens/Boca Woods	1,231	18,022	14.64
res	1	5	3	Boca Greens/Boca Woods	1,231	20,800	16.90
res	1	5	4	Boca Greens/Boca Woods	1,231	23,360	18.98
res	1	5	5	Boca Greens/Boca Woods	1,231	25,260	20.52
res	1	5	6	Boca Greens/Boca Woods	1,231	27,400	22.26
res	1	5	7	Boca Greens/Boca Woods	1,231	26,560	21.58
res	1	5	8	Boca Greens/Boca Woods	1,231	25,700	20.88
res	1	5	9	Boca Greens/Boca Woods	1,231	25,500	20.71
res	1	5	10	Boca Greens/Boca Woods	1,231	28,588	23.22
res	1	5	11	Boca Greens/Boca Woods	1,231	22,720	18.46
res	1	5	12	Boca Greens/Boca Woods	1,231	22,317	18.13
res	1	8	1	Palm Beach Country Estates	662	23,440	35.41
res	1	8	2	Palm Beach Country Estates	666	32,680	49.07
res	1	8	3	Palm Beach Country Estates	668	31,480	47.13
res	1	8	4	Palm Beach Country Estates	670	34,560	51.58
res	1	8	5	Palm Beach Country Estates	674	30,320	44.99
res	1	8	6	Palm Beach Country Estates	677	31,140	46.00
res	1	8	7	Palm Beach Country Estates	677	31,960	47.21
res	1	8	8	Palm Beach Country Estates	681	38,180	56.06
res	1	8	9	Palm Beach Country Estates	684	37,360	54.62
res	1	8	10	Palm Beach Country Estates	691	36,020	52.13
res	1	8	11	Palm Beach Country Estates	694	38,160	54.99
res	1	8	12	Palm Beach Country Estates	695	34,660	49.87
res	1	9	1	Lox River Road	819	42,740	52.19
res	1	9	2	Lox River Road	819	41,940	51.21
res	1	9	3	Lox River Road	819	37,620	45.93

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
res	1	9	4	Lox River Road	819	43,420	53.02
res	1	9	5	Lox River Road	819	39,260	47.94
res	1	9	6	Lox River Road	819	40,500	49.45
res	1	9	7	Lox River Road	819	39,600	48.35
res	1	9	8	Lox River Road	819	41,920	51.18
res	1	9	9	Lox River Road	819	39,840	48.64
res	1	9	10	Lox River Road	819	37,740	46.08
res	1	9	11	Lox River Road	819	41,080	50.16
res	1	9	12	Lox River Road	819	43,080	52.60
res	1	10	1	Caloosa, Rustic Lakes, Bayhill, Acreage	621	28,460	45.83
res	1	10	2	Caloosa, Rustic Lakes, Bayhill, Acreage	624	30,977	49.64
res	1	10	3	Caloosa, Rustic Lakes, Bayhill, Acreage	625	32,300	51.68
res	1	10	4	Caloosa, Rustic Lakes, Bayhill, Acreage	630	35,840	56.89
res	1	10	5	Caloosa, Rustic Lakes, Bayhill, Acreage	633	36,800	58.14
res	1	10	6	Caloosa, Rustic Lakes, Bayhill, Acreage	640	32,960	51.50
res	1	10	7	Caloosa, Rustic Lakes, Bayhill, Acreage	644	33,660	52.27
res	1	10	8	Caloosa, Rustic Lakes, Bayhill, Acreage	647	33,540	51.84
res	1	10	9	Caloosa, Rustic Lakes, Bayhill, Acreage	655	38,020	58.05
res	1	10	10	Caloosa, Rustic Lakes, Bayhill, Acreage	659	39,040	59.24
res	1	10	11	Caloosa, Rustic Lakes, Bayhill, Acreage	663	38,560	58.16
res	1	10	12	Caloosa, Rustic Lakes, Bayhill, Acreage	666	41,900	62.91
res	1	11	1	Rainbow Lakes	1,754	71,239	40.62
res	1	11	2	Rainbow Lakes	1,754	63,137	36.00
res	1	11	3	Rainbow Lakes	1,754	60,511	34.50
res	1	11	4	Rainbow Lakes	1,754	73,760	42.05
res	1	11	5	Rainbow Lakes	1,754	63,000	35.92
res	1	11	6	Rainbow Lakes	1,754	68,600	39.11
res	1	11	7	Rainbow Lakes	1,754	70,340	40.10
res	1	11	8	Rainbow Lakes	1,754	68,260	38.92
res	1	11	9	Rainbow Lakes	1,754	70,800	40.36
res	1	11	10	Rainbow Lakes	1,754	67,500	38.48
res	1	11	11	Rainbow Lakes	1,754	69,020	39.35
res	1	11	12	Rainbow Lakes	1,754	65,760	37.49
res	1	12	1	Biltmore Terrace, Lawrence Groves	660	24,731	37.47
res	1	12	2	Biltmore Terrace, Lawrence Groves	662	22,240	33.60
res	1	12	3	Biltmore Terrace, Lawrence Groves	667	23,440	35.14
res	1	12	4	Biltmore Terrace, Lawrence Groves	670	23,060	34.42
res	1	12	5	Biltmore Terrace, Lawrence Groves	673	23,080	34.29
res	1	12	6	Biltmore Terrace, Lawrence Groves	674	24,720	36.68
res	1	12	7	Biltmore Terrace, Lawrence Groves	679	26,140	38.50
res	1	12	8	Biltmore Terrace, Lawrence Groves	680	26,900	39.56
res	1	12	9	Biltmore Terrace, Lawrence Groves	684	31,980	46.75

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
res	1	12	10	Biltmore Terrace, Lawrence Groves	689	37,420	54.31
res	1	12	11	Biltmore Terrace, Lawrence Groves	691	29,040	42.03
res	1	12	12	Biltmore Terrace, Lawrence Groves	695	29,260	42.10
res	1	13	1	Polo Club	908	8,060	8.88
res	1	13	2	Polo Club	908	9,720	10.70
res	1	13	3	Polo Club	908	11,380	12.53
res	1	13	4	Polo Club	908	15,760	17.36
res	1	13	5	Polo Club	908	15,180	16.72
res	1	13	6	Polo Club	908	18,160	20.00
res	1	13	7	Polo Club	908	18,760	20.66
res	1	13	8	Polo Club	908	22,980	25.31
res	1	13	9	Polo Club	908	18,560	20.44
res	1	13	10	Polo Club	908	18,980	20.90
res	1	13	11	Polo Club	908	12,140	13.37
res	1	13	12	Polo Club	908	11,800	13.00
res	1	25	1	Lakes of Sherbrooke	802	27,093	33.78
res	1	25	2	Lakes of Sherbrooke	802	23,405	29.18
res	1	25	3	Lakes of Sherbrooke	802	22,497	28.05
res	1	25	4	Lakes of Sherbrooke	802	22,440	27.98
res	1	25	5	Lakes of Sherbrooke	802	26,580	33.14
res	1	25	6	Lakes of Sherbrooke	802	25,000	31.17
res	1	25	7	Lakes of Sherbrooke	802	26,000	32.42
res	1	25	8	Lakes of Sherbrooke	802	25,760	32.12
res	1	25	9	Lakes of Sherbrooke	802	25,280	31.52
res	1	25	10	Lakes of Sherbrooke	802	23,200	28.93
res	1	25	11	Lakes of Sherbrooke	802	25,740	32.09
res	1	25	12	Lakes of Sherbrooke	802	26,040	32.47
res	1	26	1	Counterpointe	913	50,145	54.92
res	1	26	2	Counterpointe	913	45,277	49.59
res	1	26	3	Counterpointe	913	43,820	48.00
res	1	26	4	Counterpointe	913	45,800	50.16
res	1	26	5	Counterpointe	913	46,390	50.81
res	1	26	6	Counterpointe	913	39,200	42.94
res	1	26	7	Counterpointe	913	43,560	47.71
res	1	26	8	Counterpointe	913	45,600	49.95
res	1	26	9	Counterpointe	913	43,400	47.54
res	1	26	10	Counterpointe	913	44,840	49.11
res	1	26	11	Counterpointe	913	51,880	56.82
res	1	26	12	Counterpointe	913	46,560	51.00
res	1	28	1	Concept Homes, Winston Trails	919	35,188	38.29
res	1	28	2	Concept Homes, Winston Trails	959	42,250	44.06
res	1	28	3	Concept Homes, Winston Trails	977	37,980	38.87

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
08	1	28	4	Concept Homes, Winston Trails	997	41,300	41.42
08	1	28	5	Concept Homes, Winston Trails	1,040	42,980	41.33
08	1	28	6	Concept Homes, Winston Trails	1,078	43,490	40.34
08	1	28	7	Concept Homes, Winston Trails	1,088	45,240	41.58
08	1	28	8	Concept Homes, Winston Trails	1,100	49,480	44.98
08	1	28	9	Concept Homes, Winston Trails	1,114	20,000	17.95
08	1	28	9	Concept Homes, Winston Trails	1,120	27,720	24.75
08	1	28	10	Concept Homes, Winston Trails	1,141	48,480	42.49
08	1	28	11	Concept Homes, Winston Trails	1,181	53,540	45.33
08	1	28	12	Concept Homes, Winston Trails	1,181	56,420	47.77
08	1	29	1	Cam Estates, Woodcrest, Overbrook	1,164	58,844	50.55
08	1	29	2	Cam Estates, Woodcrest, Overbrook	1,164	65,212	56.02
08	1	29	3	Cam Estates, Woodcrest, Overbrook	1,164	72,119	61.96
08	1	29	4	Cam Estates, Woodcrest, Overbrook	1,164	52,649	45.23
08	1	29	5	Cam Estates, Woodcrest, Overbrook	1,164	53,875	46.28
08	1	29	6	Cam Estates, Woodcrest, Overbrook	1,164	60,766	52.20
08	1	29	7	Cam Estates, Woodcrest, Overbrook	1,164	60,582	52.05
08	1	29	8	Cam Estates, Woodcrest, Overbrook	1,164	65,297	56.10
08	1	29	9	Cam Estates, Woodcrest, Overbrook	1,164	53,433	45.90
08	1	29	10	Cam Estates, Woodcrest, Overbrook	1,164	68,308	58.68
08	1	29	11	Cam Estates, Woodcrest, Overbrook	1,164	62,782	53.94
08	1	29	12	Cam Estates, Woodcrest, Overbrook	1,164	63,707	54.73
08	1	40	1	Palm Springs 1,4	608	29,142	47.93
08	1	40	2	Palm Springs 1,4	608	30,560	50.26
08	1	40	3	Palm Springs 1,4	608	25,020	41.15
08	1	40	4	Palm Springs 1,4	608	28,720	47.24
08	1	40	5	Palm Springs 1,4	608	25,312	41.63
08	1	40	6	Palm Springs 1,4	608	24,980	41.09
08	1	40	7	Palm Springs 1,4	608	29,160	47.96
08	1	40	8	Palm Springs 1,4	608	28,280	46.51
08	1	40	9	Palm Springs 1,4	608	26,980	44.38
08	1	40	10	Palm Springs 1,4	608	29,880	49.14
08	1	40	11	Palm Springs 1,4	608	32,960	54.21
08	1	40	12	Palm Springs 1,4	608	31,360	51.58
08	1	41	1	Palm Springs 2,3	702	30,880	43.99
08	1	41	2	Palm Springs 2,3	702	37,860	53.93
08	1	41	3	Palm Springs 2,3	702	29,740	42.36
08	1	41	4	Palm Springs 2,3	702	33,620	47.89
08	1	41	5	Palm Springs 2,3	702	34,500	49.15
08	1	41	6	Palm Springs 2,3	702	36,920	52.59
08	1	41	7	Palm Springs 2,3	702	37,460	53.36
08	1	41	8	Palm Springs 2,3	702	34,640	49.34

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
res	1	41	9	Palm Springs 2,3	702	33,140	47.21
res	1	41	10	Palm Springs 2,3	702	35,000	49.86
res	1	41	11	Palm Springs 2,3	702	34,400	49.00
res	1	41	12	Palm Springs 2,3	702	35,000	49.86
res	1	46	1	North Palm Beach	582	26,780	46.01
res	1	46	2	North Palm Beach	582	27,700	47.59
res	1	46	3	North Palm Beach	582	27,520	47.29
res	1	46	4	North Palm Beach	582	24,840	42.68
res	1	46	5	North Palm Beach	582	29,960	51.48
res	1	46	6	North Palm Beach	582	33,300	57.22
res	1	46	7	North Palm Beach	582	29,560	50.79
res	1	46	8	North Palm Beach	582	30,600	52.58
res	1	46	9	North Palm Beach	582	28,260	48.56
res	1	46	10	North Palm Beach	582	27,620	47.46
res	1	46	11	North Palm Beach	582	33,320	57.25
res	1	46	12	North Palm Beach	582	32,440	55.74
Average Generation per Home per Week for Type 1					164,021	6,753,201	41.17
					Mean		42.38
					Mean Std Error		0.91
					Confidence Interval (95%)		1.78

Unit Type: 1=Single Family, 2=Multi-Family <5, 3=Mobile Homes, 4=Multi-Family >4

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
g	2	3	1	Whisperwalk	676	7,616	11.27
g	2	3	2	Whisperwalk	676	6,679	9.88
g	2	3	3	Whisperwalk	676	7,145	10.57
g	2	3	4	Whisperwalk	676	6,884	10.18
g	2	3	5	Whisperwalk	676	7,740	11.45
g	2	3	6	Whisperwalk	676	8,480	12.54
g	2	3	7	Whisperwalk	676	9,800	14.50
g	2	3	8	Whisperwalk	676	13,436	19.88
g	2	3	9	Whisperwalk	676	13,385	19.80
g	2	3	10	Whisperwalk	676	9,080	13.43
g	2	3	11	Whisperwalk	676	8,060	11.92
g	2	3	12	Whisperwalk	676	8,320	12.31
g	2	31	1	Cannongate	392	16,640	42.45
g	2	31	2	Cannongate	392	17,160	43.78
g	2	31	3	Cannongate	392	16,140	41.17
g	2	31	4	Cannongate	392	15,060	38.42
g	2	31	5	Cannongate	392	16,060	40.97
g	2	31	6	Cannongate	392	15,900	40.56
g	2	31	7	Cannongate	392	15,100	38.52
g	2	31	8	Cannongate	392	16,180	41.28
g	2	31	9	Cannongate	392	16,280	41.53
g	2	31	10	Cannongate	392	17,620	44.95
g	2	31	11	Cannongate	392	17,120	43.67
g	2	31	12	Cannongate	392	18,450	47.07
g	2	53	1	Chalet 4	596	19,400	32.55
g	2	53	2	Chalet 4	596	23,840	40.00
g	2	53	3	Chalet 4	596	25,220	42.32
g	2	53	4	Chalet 4	596	21,820	36.61
g	2	53	5	Chalet 4	596	19,940	33.46
g	2	53	6	Chalet 4	596	21,896	36.74
g	2	53	7	Chalet 4	592	23,180	39.16
g	2	53	8	Chalet 4	592	25,940	43.82
g	2	53	9	Chalet 4	592	23,680	40.00
g	2	53	10	Chalet 4	592	22,620	38.21
g	2	53	11	Chalet 4	592	22,720	38.38
g	2	53	12	Chalet 4	592	24,360	41.15
g	2	54	1	Highpoint	1,124	8,260	7.35
g	2	54	2	Highpoint	1,124	6,580	5.85
g	2	54	3	Highpoint	1,124	9,460	8.42
g	2	54	4	Highpoint	1,124	8,630	7.68
g	2	54	5	Highpoint	1,124	11,560	10.28
g	2	54	6	Highpoint	1,124	10,580	9.41
g	2	54	7	Highpoint	1,124	14,023	12.48
g	2	54	8	Highpoint	1,124	12,660	11.26
g	2	54	9	Highpoint	1,124	12,911	11.49
g	2	54	10	Highpoint	1,124	11,808	10.51
g	2	54	11	Highpoint	1,124	10,303	9.17
g	2	54	12	Highpoint	1,124	8,430	7.50
g	4	6	1	Century Village	5,712	48,260	8.45

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
g	4	6	2	Century Village	5,712	52,680	9.22
g	4	6	3	Century Village	5,712	50,641	8.87
g	4	6	4	Century Village	5,712	50,097	8.77
g	4	6	5	Century Village	5,712	60,148	10.53
g	4	6	6	Century Village	5,712	61,598	10.78
g	4	6	7	Century Village	5,712	70,289	12.31
g	4	6	8	Century Village	5,712	60,306	10.56
g	4	6	9	Century Village	5,712	84,319	14.76
g	4	6	10	Century Village	5,712	71,005	12.43
g	4	6	11	Century Village	5,712	53,900	9.44
g	4	6	12	Century Village	5,712	56,660	9.92
g	4	47	1	Savannah Lakes	466	12,997	27.89
g	4	47	2	Savannah Lakes	466	13,791	29.59
g	4	47	3	Savannah Lakes	466	12,545	26.92
g	4	47	4	Savannah Lakes	466	11,705	25.12
g	4	47	5	Savannah Lakes	466	14,765	31.68
g	4	47	6	Savannah Lakes	466	9,046	19.41
g	4	47	7	Savannah Lakes	466	15,840	33.99
g	4	47	8	Savannah Lakes	466	12,102	25.97
g	4	47	9	Savannah Lakes	466	12,115	26.00
g	4	47	10	Savannah Lakes	466	12,775	27.41
g	4	47	11	Savannah Lakes	466	14,714	31.58
g	4	47	12	Savannah Lakes	466	12,314	26.42
g	4	48	1	Mahogany Bay	328	11,442	34.88
g	4	48	2	Mahogany Bay	328	8,622	26.29
g	4	48	3	Mahogany Bay	328	10,158	30.97
g	4	48	4	Mahogany Bay	328	9,845	30.02
g	4	48	5	Mahogany Bay	328	7,615	23.22
g	4	48	6	Mahogany Bay	328	7,952	24.24
g	4	48	7	Mahogany Bay	328	9,932	30.28
g	4	48	8	Mahogany Bay	328	8,668	26.43
g	4	48	9	Mahogany Bay	328	8,035	24.50
g	4	48	10	Mahogany Bay	328	10,768	32.83
g	4	48	11	Mahogany Bay	328	8,210	25.03
g	4	48	12	Mahogany Bay	328	9,212	28.09
g	4	49	1	Island Reach	280	6,512	23.26
g	4	49	2	Island Reach	280	7,712	27.54
g	4	49	3	Island Reach	280	6,775	24.20
g	4	49	4	Island Reach	280	8,866	31.66
g	4	49	5	Island Reach	280	7,985	28.52
g	4	49	6	Island Reach	280	8,442	30.15
g	4	49	7	Island Reach	280	10,232	36.54
g	4	49	8	Island Reach	280	7,597	27.13
g	4	49	9	Island Reach	280	6,886	24.59
g	4	49	10	Island Reach	280	6,129	21.89
g	4	49	11	Island Reach	280	8,885	31.73
g	4	49	12	Island Reach	280	6,443	23.01
g	4	50	1	Arbor Oaks	360	10,477	29.10
g	4	50	2	Arbor Oaks	360	14,677	40.77

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
g	4	50	3	Arbor Oaks	360	12,189	33.86
g	4	50	4	Arbor Oaks	360	12,000	33.33
g	4	50	5	Arbor Oaks	360	15,337	42.60
g	4	50	6	Arbor Oaks	360	8,700	24.17
g	4	50	7	Arbor Oaks	360	14,289	39.69
g	4	50	8	Arbor Oaks	360	8,225	22.85
g	4	50	9	Arbor Oaks	360	10,837	30.10
g	4	50	10	Arbor Oaks	360	10,758	29.88
g	4	50	11	Arbor Oaks	360	13,509	37.52
g	4	50	12	Arbor Oaks	360	10,708	29.74
g	4	51	1	San de Vance	172	5,049	29.35
g	4	51	2	San de Vance	172	4,901	28.49
g	4	51	3	San de Vance	172	4,075	23.69
g	4	51	4	San de Vance	172	6,937	40.33
g	4	51	5	San de Vance	172	2,954	17.17
g	4	51	6	San de Vance	172	0	0.00
g	4	51	7	San de Vance	172	4,634	26.94
g	4	51	8	San de Vance	172	2,825	16.42
g	4	51	9	San de Vance	172	8,626	50.15
g	4	51	10	San de Vance	172	14,072	81.81
g	4	51	11	San de Vance	172	17,755	103.23
g	4	51	12	San de Vance	172	13,735	79.85
g	4	52	1	Runaway Bay	404	13,652	33.79
g	4	52	2	Runaway Bay	404	11,986	29.67
g	4	52	3	Runaway Bay	404	13,454	33.30
g	4	52	4	Runaway Bay	404	10,482	25.95
g	4	52	5	Runaway Bay	404	11,728	29.03
g	4	52	6	Runaway Bay	404	10,902	26.99
g	4	52	7	Runaway Bay	404	12,309	30.47
g	4	52	8	Runaway Bay	404	14,377	35.59
g	4	52	9	Runaway Bay	404	11,843	29.31
g	4	52	10	Runaway Bay	404	9,771	24.19
g	4	52	11	Runaway Bay	404	11,178	27.67
g	4	52	12	Runaway Bay	404	15,628	38.68

Average Generation per Home per Week

	126,096	2,156,270	17.10
Mean			27.40
Mean Std Error			1.30
Confidence Interval (95%)			2.54

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
06	3	2	1	Watergate MH Park	866	40,680	46.97
06	3	2	2	Watergate MH Park	866	42,240	48.78
06	3	2	3	Watergate MH Park	866	38,000	43.88
06	3	2	4	Watergate MH Park	866	42,940	49.58
06	3	2	5	Watergate MH Park	866	42,220	48.75
06	3	2	6	Watergate MH Park	866	40,800	47.11
06	3	2	7	Watergate MH Park	864	40,680	47.08
06	3	2	8	Watergate MH Park	864	53,140	61.50
06	3	2	9	Watergate MH Park	864	49,180	56.92
06	3	2	10	Watergate MH Park	864	45,160	52.27
06	3	2	11	Watergate MH Park	864	42,900	49.65
06	3	2	12	Watergate MH Park	864	46,180	53.45
06	3	15	1	Sunny South, Sand and Sea	903	26,580	29.44
06	3	15	2	Sunny South, Sand and Sea	903	25,240	27.95
06	3	15	3	Sunny South, Sand and Sea	903	36,888	40.85
06	3	15	4	Sunny South, Sand and Sea	903	29,700	32.89
06	3	15	5	Sunny South, Sand and Sea	903	27,620	30.59
06	3	15	6	Sunny South, Sand and Sea	903	44,940	49.77
06	3	15	7	Sunny South, Sand and Sea	903	29,840	33.05
06	3	15	8	Sunny South, Sand and Sea	903	31,373	34.74
06	3	15	9	Sunny South, Sand and Sea	903	27,442	30.39
06	3	15	10	Sunny South, Sand and Sea	903	27,365	30.30
06	3	15	11	Sunny South, Sand and Sea	903	28,040	31.05
06	3	15	12	Sunny South, Sand and Sea	903	27,340	30.28
06	3	18	1	Belle Glade	537	31,880	59.37
06	3	18	2	Belle Glade	537	45,200	84.17
06	3	18	3	Belle Glade	537	51,880	96.61
06	3	18	4	Belle Glade	537	41,590	77.45
06	3	18	5	Belle Glade	537	22,525	41.95
06	3	18	6	Belle Glade	537	28,705	53.45
06	3	18	7	Belle Glade	537	48,758	90.80
06	3	18	8	Belle Glade	537	34,732	64.68
06	3	18	9	Belle Glade	537	29,922	55.72
06	3	18	10	Belle Glade	535	33,091	61.85
06	3	18	11	Belle Glade	535	32,160	60.11
06	3	18	12	Belle Glade	535	43,350	81.03
06	3	30	1	Palm Lakes Coop	819	9,230	11.27
06	3	30	2	Palm Lakes Coop	819	8,680	10.60
06	3	30	3	Palm Lakes Coop	819	10,240	12.50
06	3	30	4	Palm Lakes Coop	819	12,320	15.04
06	3	30	5	Palm Lakes Coop	819	14,100	17.22
06	3	30	6	Palm Lakes Coop	819	14,800	18.07

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
rg	3	30	7	Palm Lakes Coop	819	16,560	20.22
rg	3	30	8	Palm Lakes Coop	819	19,772	24.14
rg	3	30	9	Palm Lakes Coop	819	22,034	26.90
rg	3	30	10	Palm Lakes Coop	819	17,202	21.00
rg	3	30	11	Palm Lakes Coop	819	11,480	14.02
rg	3	30	12	Palm Lakes Coop	819	8,670	10.59
Average Generation per Home per Week for Type 3					37,482	1,495,369	39.90
					Mean		42.42
					Mean Std Error		3.13
					Confidence Interval (95%)		6.14

Unit Type: 1=Single Family, 2=Multi-Family <5, 3=Mobile Homes, 4=Multi-Family >4

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	1	4	1	American Homes	1,030	34,120	33.13
v	1	4	2	American Homes	1,030	21,080	20.47
v	1	4	3	American Homes	1,030	21,080	20.47
v	1	4	4	American Homes	1,030	21,080	20.47
v	1	4	5	American Homes	1,030	21,080	20.47
v	1	4	6	American Homes	1,030	32,204	31.27
v	1	4	7	American Homes	1,030	25,205	24.47
v	1	4	8	American Homes	1,030	36,468	35.41
v	1	4	9	American Homes	1,030	42,160	40.93
v	1	4	10	American Homes	1,030	33,728	32.75
v	1	4	11	American Homes	1,030	25,205	24.47
v	1	4	12	American Homes	1,030	21,080	20.47
v	1	5	1	Boca Greens/Boca Woods	1,231	7,700	6.26
v	1	5	2	Boca Greens/Boca Woods	1,231	10,200	8.29
v	1	5	3	Boca Greens/Boca Woods	1,231	13,600	11.05
v	1	5	4	Boca Greens/Boca Woods	1,231	16,320	13.26
v	1	5	5	Boca Greens/Boca Woods	1,231	10,540	8.56
v	1	5	6	Boca Greens/Boca Woods	1,231	7,024	5.71
v	1	5	7	Boca Greens/Boca Woods	1,231	7,905	6.42
v	1	5	8	Boca Greens/Boca Woods	1,231	13,080	10.63
v	1	5	9	Boca Greens/Boca Woods	1,231	14,008	11.38
v	1	5	10	Boca Greens/Boca Woods	1,231	8,786	7.14
v	1	5	11	Boca Greens/Boca Woods	1,231	17,544	14.25
v	1	5	12	Boca Greens/Boca Woods	1,231	5,270	4.28
v	1	8	1	Palm Beach Country Estates	662	30,240	45.68
v	1	8	2	Palm Beach Country Estates	666	45,338	68.08
v	1	8	3	Palm Beach Country Estates	668	58,090	86.96
v	1	8	4	Palm Beach Country Estates	670	49,250	73.51
v	1	8	5	Palm Beach Country Estates	674	43,520	64.57
v	1	8	6	Palm Beach Country Estates	677	24,650	36.41
v	1	8	7	Palm Beach Country Estates	677	38,320	56.60
v	1	8	8	Palm Beach Country Estates	681	28,540	41.91
v	1	8	9	Palm Beach Country Estates	684	35,925	52.52
v	1	8	10	Palm Beach Country Estates	691	44,160	63.91
v	1	8	11	Palm Beach Country Estates	694	44,715	64.43
v	1	8	12	Palm Beach Country Estates	695	31,860	45.84
v	1	9	1	Lox River Road	819	48,040	58.66
v	1	9	2	Lox River Road	819	58,920	71.94
v	1	9	3	Lox River Road	819	73,590	89.85
v	1	9	4	Lox River Road	819	69,858	85.30
v	1	9	5	Lox River Road	819	53,880	65.79
v	1	9	6	Lox River Road	819	30,280	36.97

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	1	9	7	Lox River Road	819	43,300	52.87
v	1	9	8	Lox River Road	819	49,940	60.98
v	1	9	9	Lox River Road	819	66,324	80.98
v	1	9	10	Lox River Road	721	56,774	78.74
v	1	9	11	Lox River Road	721	68,980	95.67
v	1	9	12	Lox River Road	721	49,380	68.49
v	1	10	1	Caloosa, Rustic Lakes, Bayhill, Acreage	614	42,000	68.40
v	1	10	2	Caloosa, Rustic Lakes, Bayhill, Acreage	624	29,180	46.76
v	1	10	3	Caloosa, Rustic Lakes, Bayhill, Acreage	625	28,440	45.50
v	1	10	4	Caloosa, Rustic Lakes, Bayhill, Acreage	630	44,880	71.24
v	1	10	5	Caloosa, Rustic Lakes, Bayhill, Acreage	633	39,720	62.75
v	1	10	6	Caloosa, Rustic Lakes, Bayhill, Acreage	640	23,280	36.38
v	1	10	7	Caloosa, Rustic Lakes, Bayhill, Acreage	644	54,005	83.86
v	1	10	8	Caloosa, Rustic Lakes, Bayhill, Acreage	647	42,425	65.57
v	1	10	9	Caloosa, Rustic Lakes, Bayhill, Acreage	655	36,925	56.37
v	1	10	10	Caloosa, Rustic Lakes, Bayhill, Acreage	659	72,390	109.85
v	1	10	11	Caloosa, Rustic Lakes, Bayhill, Acreage	663	70,080	105.70
v	1	10	12	Caloosa, Rustic Lakes, Bayhill, Acreage	666	40,480	60.78
v	1	11	1	Rainbow Lakes	1,754	35,840	20.43
v	1	11	2	Rainbow Lakes	1,754	29,260	16.68
v	1	11	3	Rainbow Lakes	1,754	37,040	21.12
v	1	11	4	Rainbow Lakes	1,754	39,780	22.68
v	1	11	5	Rainbow Lakes	1,754	29,660	16.91
v	1	11	6	Rainbow Lakes	1,754	22,700	12.94
v	1	11	7	Rainbow Lakes	1,754	29,415	16.77
v	1	11	8	Rainbow Lakes	1,754	27,700	15.79
v	1	11	9	Rainbow Lakes	1,754	33,340	19.01
v	1	11	10	Rainbow Lakes	1,754	45,170	25.75
v	1	11	11	Rainbow Lakes	1,754	36,200	20.64
v	1	11	12	Rainbow Lakes	1,754	42,740	24.37
v	1	12	1	Biltmore Terrace, Lawrence Groves	662	21,940	33.14
v	1	12	2	Biltmore Terrace, Lawrence Groves	662	18,130	27.39
v	1	12	3	Biltmore Terrace, Lawrence Groves	667	34,040	51.03
v	1	12	4	Biltmore Terrace, Lawrence Groves	670	17,660	26.36
v	1	12	5	Biltmore Terrace, Lawrence Groves	673	28,500	42.35
v	1	12	6	Biltmore Terrace, Lawrence Groves	674	4,180	6.20
v	1	12	7	Biltmore Terrace, Lawrence Groves	679	14,580	21.47
v	1	12	8	Biltmore Terrace, Lawrence Groves	680	19,420	28.56
v	1	12	9	Biltmore Terrace, Lawrence Groves	684	46,920	68.60
v	1	12	10	Biltmore Terrace, Lawrence Groves	689	25,560	37.10
v	1	12	11	Biltmore Terrace, Lawrence Groves	691	36,900	53.40
v	1	12	12	Biltmore Terrace, Lawrence Groves	695	19,600	28.20

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	1	13	1	Polo Club	908	0	0.00
v	1	13	2	Polo Club	908	1,040	1.15
v	1	13	3	Polo Club	908	460	0.51
v	1	13	4	Polo Club	908	240	0.26
v	1	13	5	Polo Club	908	0	0.00
v	1	13	6	Polo Club	908	740	0.81
v	1	13	7	Polo Club	908	450	0.50
v	1	13	8	Polo Club	908	200	0.22
v	1	13	9	Polo Club	908	0	0.00
v	1	13	10	Polo Club	908	0	0.00
v	1	13	11	Polo Club	908	0	0.00
v	1	13	12	Polo Club	908	0	0.00
v	1	25	1	Lakes of Sherbrooke	802	18,980	23.67
v	1	25	2	Lakes of Sherbrooke	802	18,905	23.57
v	1	25	3	Lakes of Sherbrooke	802	17,680	22.04
v	1	25	4	Lakes of Sherbrooke	802	18,680	23.29
v	1	25	5	Lakes of Sherbrooke	802	15,620	19.48
v	1	25	6	Lakes of Sherbrooke	802	4,680	5.84
v	1	25	7	Lakes of Sherbrooke	802	13,880	17.31
v	1	25	8	Lakes of Sherbrooke	802	12,995	16.20
v	1	25	9	Lakes of Sherbrooke	802	19,035	23.73
v	1	25	10	Lakes of Sherbrooke	802	17,750	22.13
v	1	25	11	Lakes of Sherbrooke	802	17,025	21.23
v	1	25	12	Lakes of Sherbrooke	802	15,360	19.15
v	1	26	1	Counterpointe	913	15,360	16.82
v	1	26	2	Counterpointe	913	14,800	16.21
v	1	26	3	Counterpointe	913	26,480	29.00
v	1	26	4	Counterpointe	913	12,900	14.13
v	1	26	5	Counterpointe	913	20,570	22.53
v	1	26	6	Counterpointe	913	8,570	9.39
v	1	26	7	Counterpointe	913	19,010	20.82
v	1	26	8	Counterpointe	913	12,240	13.41
v	1	26	9	Counterpointe	913	21,060	23.07
v	1	26	10	Counterpointe	913	6,630	7.26
v	1	26	11	Counterpointe	913	24,540	26.88
v	1	26	12	Counterpointe	913	20,255	22.19
v	1	28	1	Concept Homes, Winston Trails	919	14,560	15.84
v	1	28	2	Concept Homes, Winston Trails	959	24,855	25.92
v	1	28	3	Concept Homes, Winston Trails	977	15,060	15.41
v	1	28	4	Concept Homes, Winston Trails	997	15,560	15.61
v	1	28	5	Concept Homes, Winston Trails	1,040	14,160	13.62
v	1	28	6	Concept Homes, Winston Trails	1,078	10,080	9.35

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	1	28	7	Concept Homes, Winston Trails	1,088	12,640	11.62
v	1	28	8	Concept Homes, Winston Trails	1,100	21,040	19.13
v	1	28	9	Concept Homes, Winston Trails	1,120	20,620	18.41
v	1	28	10	Concept Homes, Winston Trails	1,141	30,210	26.48
v	1	28	11	Concept Homes, Winston Trails	1,171	23,010	19.65
v	1	28	12	Concept Homes, Winston Trails	1,181	29,380	24.88
v	1	29	1	Cam Estates, Woodcrest, Overbrook	1,164	42,970	36.92
v	1	29	2	Cam Estates, Woodcrest, Overbrook	1,164	36,130	31.04
v	1	29	3	Cam Estates, Woodcrest, Overbrook	1,164	44,780	38.47
v	1	29	4	Cam Estates, Woodcrest, Overbrook	1,164	31,250	26.85
v	1	29	5	Cam Estates, Woodcrest, Overbrook	1,164	19,290	16.57
v	1	29	6	Cam Estates, Woodcrest, Overbrook	1,164	23,790	20.44
v	1	29	7	Cam Estates, Woodcrest, Overbrook	1,164	26,865	23.08
v	1	29	8	Cam Estates, Woodcrest, Overbrook	1,164	25,250	21.69
v	1	29	9	Cam Estates, Woodcrest, Overbrook	1,164	32,240	27.70
v	1	29	10	Cam Estates, Woodcrest, Overbrook	1,164	18,515	15.91
v	1	29	11	Cam Estates, Woodcrest, Overbrook	1,164	62,140	53.38
v	1	29	12	Cam Estates, Woodcrest, Overbrook	1,164	27,280	23.44
v	1	40	1	Palm Springs 1,4	608	21,480	35.33
v	1	40	2	Palm Springs 1,4	608	33,800	55.59
v	1	40	3	Palm Springs 1,4	608	19,420	31.94
v	1	40	4	Palm Springs 1,4	608	30,420	50.03
v	1	40	5	Palm Springs 1,4	608	12,940	21.28
v	1	40	6	Palm Springs 1,4	608	15,260	25.10
v	1	40	7	Palm Springs 1,4	608	17,720	29.14
v	1	40	8	Palm Springs 1,4	608	17,820	29.31
v	1	40	9	Palm Springs 1,4	608	9,560	15.72
v	1	40	10	Palm Springs 1,4	608	32,620	53.65
v	1	40	11	Palm Springs 1,4	608	16,260	26.74
v	1	40	12	Palm Springs 1,4	608	35,460	58.32
v	1	41	1	Palm Springs 2,3	702	25,600	36.47
v	1	41	2	Palm Springs 2,3	702	24,620	35.07
v	1	41	3	Palm Springs 2,3	702	23,400	33.33
v	1	41	4	Palm Springs 2,3	702	14,720	20.97
v	1	41	5	Palm Springs 2,3	702	17,872	25.46
v	1	41	6	Palm Springs 2,3	702	13,960	19.89
v	1	41	7	Palm Springs 2,3	702	16,540	23.56
v	1	41	8	Palm Springs 2,3	702	22,820	32.51
v	1	41	9	Palm Springs 2,3	702	21,440	30.54
v	1	41	10	Palm Springs 2,3	702	17,640	25.13
v	1	41	11	Palm Springs 2,3	702	19,600	27.92
v	1	41	12	Palm Springs 2,3	702	20,140	28.69

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	1	46	1	North Palm Beach	582	33,580	57.70
v	1	46	2	North Palm Beach	582	31,440	54.02
v	1	46	3	North Palm Beach	582	38,610	66.34
v	1	46	4	North Palm Beach	582	36,200	62.20
v	1	46	5	North Palm Beach	582	40,380	69.38
v	1	46	6	North Palm Beach	582	35,280	60.62
v	1	46	7	North Palm Beach	582	15,380	26.43
v	1	46	8	North Palm Beach	582	15,720	27.01
v	1	46	9	North Palm Beach	582	40,020	68.76
v	1	46	10	North Palm Beach	582	35,820	61.55
v	1	46	11	North Palm Beach	582	32,520	55.88
v	1	46	12	North Palm Beach	582	37,020	63.61
Average Generation per Home per Week for Type 1					162,598	4,741,313	29.16
					Mean		32.82
					Mean Std Error		1.75
					Confidence Interval (95%)		3.42

Unit Type: 1=Single Family, 2=Multi-Family <5, 3=Mobile Homes, 4=Multi-Family >4

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	3	2	1	Watergate MH Park	866	12,660	14.62
v	3	2	2	Watergate MH Park	866	21,080	24.34
v	3	2	3	Watergate MH Park	866	24,090	27.82
v	3	2	4	Watergate MH Park	866	14,280	16.49
v	3	2	5	Watergate MH Park	866	7,024	8.11
v	3	2	6	Watergate MH Park	866	14,056	16.23
v	3	2	7	Watergate MH Park	864	11,329	13.11
v	3	2	8	Watergate MH Park	864	17,000	19.68
v	3	2	9	Watergate MH Park	864	29,100	33.68
v	3	2	10	Watergate MH Park	864	15,810	18.30
v	3	2	11	Watergate MH Park	864	10,540	12.20
v	3	2	12	Watergate MH Park	864	22,364	25.88
v	3	15	1	Sunny South, Sand and Sea	903	9,980	11.05
v	3	15	2	Sunny South, Sand and Sea	903	15,295	16.94
v	3	15	3	Sunny South, Sand and Sea	903	10,660	11.81
v	3	15	4	Sunny South, Sand and Sea	903	18,940	20.97
v	3	15	5	Sunny South, Sand and Sea	903	10,880	12.05
v	3	15	6	Sunny South, Sand and Sea	903	3,200	3.54
v	3	15	7	Sunny South, Sand and Sea	903	21,825	24.17
v	3	15	8	Sunny South, Sand and Sea	903	14,340	15.88
v	3	15	9	Sunny South, Sand and Sea	903	8,880	9.83
v	3	15	10	Sunny South, Sand and Sea	903	10,860	12.03
v	3	15	11	Sunny South, Sand and Sea	903	14,874	16.47
v	3	15	12	Sunny South, Sand and Sea	903	25,080	27.77
v	3	18	1	Belle Glade	537	34,160	63.61
v	3	18	2	Belle Glade	537	21,640	40.30
v	3	18	3	Belle Glade	537	27,525	51.26
v	3	18	4	Belle Glade	537	40,950	76.26
v	3	18	5	Belle Glade	537	17,415	32.43
v	3	18	6	Belle Glade	537	8,916	16.60
v	3	18	7	Belle Glade	537	29,058	54.11
v	3	18	8	Belle Glade	537	23,848	44.41
v	3	18	9	Belle Glade	537	12,468	23.22
v	3	18	10	Belle Glade	535	25,974	48.55
v	3	18	11	Belle Glade	535	21,230	39.68
v	3	18	12	Belle Glade	535	14,270	26.67
v	3	30	1	Palm Lakes Coop	819	7,000	8.55
v	3	30	2	Palm Lakes Coop	819	2,440	2.98
v	3	30	3	Palm Lakes Coop	819	14,610	17.84
v	3	30	4	Palm Lakes Coop	819	13,460	16.43
v	3	30	5	Palm Lakes Coop	819	7,320	8.94
v	3	30	6	Palm Lakes Coop	819	14,210	17.35

Waste Type	Unit Type	Route	Week	Route Description	Unit Count	Weight	Lbs/Unit
v	3	30	7	Palm Lakes Coop	819	5,990	7.31
v	3	30	8	Palm Lakes Coop	819	4,220	5.15
v	3	30	9	Palm Lakes Coop	819	13,950	17.03
v	3	30	10	Palm Lakes Coop	819	11,760	14.36
v	3	30	11	Palm Lakes Coop	819	7,085	8.65
v	3	30	12	Palm Lakes Coop	814	14,860	18.26
Average Generation per Home per Week for Type 3					37,477	758,506	20.24
					Mean		22.35
					Mean Std Error		2.29
					Confidence Interval (95%)		4.50

Unit Type: 1=Single Family, 2=Multi-Family <5, 3=Mobile Homes, 4=Multi-Family >4

Appendix B

Required Adjustments for Non-conforming and Bulk Waste

**Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste**

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
24	28	1	g	-1	Non-conforming Waste	4	Bags	23	-92
30	11	1	g	-1	Non-conforming Waste	5	Bags	23	-115
36	11	1	g	-1	Non-conforming Waste	2	Bags	23	-46
38	30	1	g	-1	Non-conforming Waste	30	Bags	23	-690
44	25	1	g	-1	Non-conforming Waste	4	Cans	23	-92
44	25	1	g	1	Water Bed/Headboard	1	Bed	300	300
51	25	1	g	-1	Non-conforming Waste	5	Cans	23	-115
53	12	1	g	-1	Non-conforming Waste	3	Bags	23	-69
56	26	1	g	-1	Non-conforming Waste	1	Cans	23	-23
58	5	1	g	-1	Non-conforming Waste	2	Bags	23	-46
59	3	1	g	-1	Non-conforming Waste	4	Cans	23	-92
66	26	1	g	-1	Non-conforming Waste	4	Bags	23	-92
66	26	1	g	1	Wood Piles	6.08	CY	500	3,040
67	18	1	v	1	Vegetation	44.8	CY	275	12,320
68	18	1	v	1	Driver Bolted	1	Human	120	120
68	18	1	v	1	Vegetation	56	CY	275	15,400
70	10	1	v	1	Vegetation	100	CY	275	27,500
73	5	1	v	1	Vegetation	28	CY	275	7,700
74	40	1	g	-1	Non-conforming Waste	6	Cans	23	-138
75	29	1	v	1	Vegetation	30	CY	275	8,250
76	31	1	g	-1	Non-conforming Waste	4.5	Cans	23	-104
86	29	1	v	1	Vegetation	24	CY	275	6,600
88	4	1	v	1	Compacted Vegetation	31	CY	680	21,080
89	9	1	v	1	Vegetation	4	CY	275	1,100
100	29	1	g	-1	Non-conforming Waste	5	Cans	23	-115
100	29	1	g	1	Trash	2	CY	500	1,000
110	30	1	v	1	Vegetation	8	CY	275	2,200
114	29	1	g	-1	Non-conforming Waste	7	Cans	23	-161
115	54	1	g	-1	Non-conforming Waste	2	CY	500	-1,000
119	18	1	g	-1	Non-conforming Waste	7	CY	500	-3,500
119	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
120	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
121	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
122	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
123	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
124	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
125	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
126	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
127	18	1	g	-1	Vegetation	11.2	CY	275	-3,080
133	29	2	g	1	Trash	3.5	CY	500	1,750
133	29	2	g	1	Refrigerator (17cf)	1	Refrigera	235	235
133	29	2	g	-1	Non-conforming Waste	7	Cans	23	-161
133	29	2	g	-1	Non-conforming Waste	1	Bags	23	-23
140	54	2	g	-1	Non-conforming Waste	3	CY	500	-1,500
157	54	2	g	-1	Non-conforming Waste	2	CY	500	-1,000
159	29	2	g	-1	Non-conforming Waste	3	Cans	23	-69
159	29	2	g	-1	Mailbox	1	Mailbox	40	-40
164	25	3	v	1	Vegetation	8	CY	275	2,200
166	4	2	v	1	Compacted Vegetation	31	CY	680	21,080
169	29	2	v	1	Vegetation	30	CY	275	8,250
175	5	3	v	1	Compacted Vegetation	20	CY	680	13,600
176	29	3	v	1	Vegetation	23	CY	275	6,325
177	26	3	v	1	Compacted Vegetation	10	CY	680	6,800
179	8	3	v	1	Vegetation	126	CY	275	34,650
186	28	2	g	1	Work Table	1	Table	200	200
186	28	2	g	1	Refrigerator	1	Refrigera	330	330
187	10	2	g	-1	Non-conforming Waste	1	Bags	23	-23
190	6	2	g	-1	Non-conforming Container	6	CY	158	-948
190	6	2	g	-1	Non-conforming Container	3.36	CY	158	-531
191	5	2	g	-1	Non-conforming Waste	3	Bags	23	-69
192	3	2	g	-1	Non-conforming Waste	3	Cans	23	-69
195	25	2	g	-1	Non-conforming Waste	5	Cans	23	-115
204	26	2	g	1	Construction Debris	200	Pounds	1	200
204	26	2	g	1	Couches (6 ft)	2	Couches	150	300
204	26	2	g	1	Washing Machine	1	Washer	180	180
206	15	2	v	1	Vegetation	25	CY	275	6,875
209	5	2	g	-1	Non-conforming Waste	1	Cans	23	-23
209	5	2	g	-1	Non-conforming Waste	2	Bags	23	-46
210	3	2	g	-1	Non-conforming Waste	4	Cans	23	-92
212	26	2	g	-1	Non-conforming Waste	1	Cans	23	-23
214	25	2	g	1	Refrigerator (2 cf)	1	Refrigera	100	100
216	28	2	v	1	Vegetation	25	CY	275	6,875
216	28	2	v	1	Vegetation	1	Stump	200	200
217	5	2	v	1	Compacted Vegetation	15	CY	680	10,200
220	26	2	v	1	Vegetation	4	CY	275	1,100
221	8	2	v	1	Vegetation	20.5	CY	275	5,638
224	12	2	v	1	Vegetation	18	CY	275	4,950
230	11	2	g	-1	Non-conforming Waste	1	Bags	23	-23
245	6	2	g	-1	Containerized Garbage	2.96	CY	158	-468
245	6	2	g	-1	Containerized Garbage	1.98	CY	158	-313
246	2	2	v	1	Vegetation	31	CY	680	21,080
251	25	2	v	1	Vegetation	11	CY	275	3,025

Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
254	31	3	v	1	Vegetation	8	CY	275	2,200
261	18	2	g	-1	Vegetation	11.2	CY	275	-3,080
262	18	2	g	-1	Vegetation	11.2	CY	275	-3,080
263	18	2	g	-1	Vegetation	11.2	CY	275	-3,080
264	18	2	g	-1	Vegetation	11.2	CY	275	-3,080
265	18	2	g	-1	Vegetation	11.2	CY	275	-3,080
266	18	2	v	1	Vegetation	56	CY	275	15,400
268	29	3	v	1	Vegetation	25	CY	275	6,875
268	29	3	v	1	Logs	4	CY	500	2,000
269	4	3	v	1	Compacted Vegetation	31	CY	680	21,080
270	26	3	v	1	Vegetation	4	CY	275	1,100
276	15	3	g	1	Trash	3	CY	500	1,500
276	15	3	g	1	Missed Units	295	Units	26.94	7,948
277	9	3	v	1	Vegetation	70	CY	275	19,250
287	46	3	v	1	Vegetation	2	CY	275	550
289	29	3	g	1	Refrigerator (22 cf)	1	Refrigerator	330	330
289	29	3	g	1	Bath Tub	1	Bath Tub	200	200
289	29	3	g	-1	Non-conforming Waste	9	Cans	23	-207
291	18	3	g	-1	Vegetation	11.2	CY	275	-3,080
292	18	3	g	-1	Vegetation	7	CY	275	-1,925
293	18	3	g	-1	Vegetation	7	CY	275	-1,925
294	18	3	g	-1	Vegetation	7	CY	275	-1,925
295	18	3	g	-1	Vegetation	7	CY	275	-1,925
296	18	3	g	-1	Vegetation	7	CY	275	-1,925
297	18	3	g	-1	Vegetation	7	CY	275	-1,925
298	18	3	g	-1	Vegetation	7	CY	275	-1,925
299	18	3	g	-1	Vegetation	7	CY	275	-1,925
300	18	3	v	1	Vegetation	17	CY	275	4,675
300	18	3	v	1	Vegetation	67.2	CY	275	18,480
305	54	3	g	-1	Trash	2	CY	500	-1,000
306	29	3	g	1	Furniture and Cabinets	21	CY	500	10,500
306	29	3	g	-1	Non-conforming Waste	8	Cans	23	-184
321	3	3	g	-1	Non-conforming Waste	1	Bags	23	-23
335	11	3	g	-1	Non-conforming Waste	3	Bags	23	-69
338	30	3	v	1	Vegetation	42	CY	275	11,550
341	6	3	g	-1	Non-conforming Container	7.04	CY	158	-1,112
341	6	3	g	-1	Non-conforming Container	4.56	CY	158	-720
342	6	1	g	-1	Non-conforming Container	6	CY	158	-948
342	6	1	g	-1	Non-conforming Container	2.72	CY	158	-430
342	6	1	g	-1	Non-conforming Container	8	CY	158	-1,264
342	6	1	g	-1	Non-conforming Waste	6	Bags	23	-138
343	3	1	g	-1	Non-conforming Waste	4	Cans	23	-92
344	4	1	g	-1	Non-conforming Waste	4	Bags	23	-92
346	5	1	g	-1	Non-conforming Waste	2	Bags	23	-46
347	12	3	g	1	Trash	2	CY	500	1,000
351	25	3	g	-1	Non-conforming Waste	1	Bags	23	-23
354	3	3	g	-1	Non-conforming Waste	4	Cans	23	-92
360	2	3	v	1	Vegetation	87.6	CY	275	24,090
363	6	3	g	1	Non-conforming Container	0.92	CY	158	145
363	6	3	g	1	Non-conforming Container	0.4	CY	158	63
363	6	3	g	1	Non-conforming Waste	2	Boxes	10	20
363	6	3	g	1	Containerized Garbage	0.68	CY	158	107
363	6	3	g	1	Non-conforming Waste	8	Bags	5	40
363	6	3	g	1	Containerized Garbage	1.32	CY	158	209
363	6	3	g	1	Containerized Garbage	1.68	CY	158	265
363	6	3	g	1	Containerized Garbage	0.52	CY	158	82
363	6	3	g	-1	Non-conforming Container	6	CY	158	-948
363	6	3	g	-1	Empty Large Boxes	1	Boxes	10	-10
368	3	4	g	-1	Non-conforming Waste	9	Cans	23	-207
371	6	4	g	-1	Containerized Garbage	6.56	CY	158	-1,036
371	6	4	g	-1	Containerized Garbage	14	CY	158	-2,212
372	6	4	g	-1	Containerized Garbage	20.56	CY	158	-3,248
373	40	4	v	1	Vegetation	36	CY	275	9,900
375	3	4	g	-1	Non-conforming Waste	3	Cans	23	-69
376	2	4	v	1	Compacted Vegetation	21	CY	680	14,280
377	6	4	g	-1	Containerized Garbage	10.3	CY	158	-1,627
387	8	4	v	1	Vegetation	36	CY	275	9,900
387	8	4	v	1	Vegetation	1	Stump	150	150
390	15	4	v	1	Vegetation	24	CY	275	6,600
390	15	4	v	-1	Deleted Record	1		14400	-14,400
391	10	4	v	1	Vegetation	57	CY	275	15,675
392	10	4	v	1	Vegetation	3	CY	275	825
398	5	4	v	1	Compacted Vegetation	24	CY	680	16,320
402	26	4	g	1	Fencing	6	CY	500	3,000
404	26	4	v	1	Vegetation	8	CY	275	2,200
407	4	4	v	1	Compacted Vegetation	31	CY	680	21,080
411	29	4	v	1	Vegetation	10	CY	275	2,750
419	54	4	g	-1	Non-conforming Waste	6	Cans	25	-150
429	54	4	g	-1	Non-conforming Waste	8	Cans	25	-200
430	29	4	g	-1	Non-conforming Waste	3	Bags	23	-69
430	29	4	g	-1	Non-conforming Waste	4	Cans	23	-92
432	15	4	v	1	Vegetation	40	CY	275	11,000

Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
435	30	4	v	-1	Trash	5	CY	500	-2,500
436	30	4	v	-1	Trash	5	CY	500	-2,500
437	9	4	v	1	Vegetation	0.5	CY	275	138
441	29	4	g	-1	Non-conforming Waste	9	Cans	23	-207
441	29	4	g	-1	Non-conforming Waste	1	Bags	23	-23
456	18	4	g	-1	Vegetation	16	CY	275	-4,400
457	18	4	g	-1	Vegetation	16	CY	275	-4,400
458	18	4	g	-1	Vegetation	16	CY	275	-4,400
459	18	4	g	-1	Vegetation	16	CY	275	-4,400
460	18	4	g	-1	Vegetation	16	CY	275	-4,400
461	18	4	g	-1	Vegetation	16	CY	275	-4,400
462	18	4	g	-1	Vegetation	6	CY	275	-1,650
463	18	4	v	1	Vegetation	51	CY	275	14,025
464	18	4	v	1	Vegetation	51	CY	275	14,025
478	26	5	g	1	Fencing	1.5	CY	500	750
482	2	5	v	1	Compacted Vegetation	10.33	CY	680	7,024
511	25	5	v	1	Vegetation	16	CY	275	4,400
512	6	5	g	-1	Containerized Garbage	5.52	CY	158	-872
531	29	5	g	-1	Non-conforming Waste	9	Cans	23	-207
531	29	5	g	-1	Non-conforming Waste	5	Bags	23	-115
531	29	5	g	1	Sofa Bed	1	Sofa	250	250
534	40	5	g	-1	Non-conforming Waste	6	Bags	23	-138
534	40	5	g	-1	Box	1	Boxes	10	-10
549	12	5	v	1	Logs	3	CY	500	1,500
551	29	5	g	-1	Containerized Garbage	6	Cans	23	-138
551	29	5	g	1	Stove	1	Stove	150	150
551	29	5	g	1	Refrigerator (18 cf)	1	Refrigerator	235	235
551	29	5	g	1	Dishwasher	1	Dishwasher	100	100
554	54	5	g	-1	Non-conforming Waste	12	Cans	25	-300
563	5	5	v	1	Vegetation	15.5	CY	680	10,540
567	26	5	v	1	Vegetation	14	CY	275	3,850
567	26	5	v	1	Stumps	300	Pounds	1	300
568	31	5	v	1	Vegetation	9	CY	275	2,475
569	4	5	v	1	Compacted Vegetation	31	CY	680	21,080
570	29	5	v	1	Vegetation	10	CY	275	2,750
571	26	5	v	1	Vegetation	20	CY	275	5,500
574	18	5	g	-1	Vegetation	12	CY	275	-3,300
575	18	5	g	-1	Vegetation	15	CY	275	-4,125
576	18	5	g	-1	Vegetation	15	CY	275	-4,125
577	18	5	g	-1	Vegetation	15	CY	275	-4,125
578	18	5	v	1	Vegetation	57	CY	275	15,675
579	29	6	g	-1	Non-conforming Waste	8	Cans	23	-184
579	29	6	g	-1	Carpet	3	Rolls	150	-450
579	29	6	g	1	Refrigerator(17 cf)	1	Refrigerator	235	235
580	29	6	g	1	Water Softener(40 gal)	1	Softener	25	25
580	29	6	g	1	Sofas	3	Sofas	150	450
580	29	6	g	1	AC Unit (12,000 BTU)	1	AC Unit	100	100
581	30	6	v	1	Vegetation	34	CY	275	9,350
582	15	6	g	1	Trash	8	CY	500	4,000
586	54	6	g	-1	Non-conforming Waste	10	Cans	25	-250
605	29	6	g	1	Refrigerator(17 cf)	1	Refrigerator	235	235
605	29	6	g	-1	Non-conforming Waste	5	Cans	25	-125
606	54	6	g	-1	Non-conforming Waste	6	Cans	25	-150
608	28	6	g	1	Refrigerator	1	Refrigerator	330	330
609	53	6	g	1	Containerized Garbage	0	CY	158	0
615	5	6	v	1	Compacted Vegetation	10.33	CY	680	7,024
616	29	6	v	1	Vegetation	30	CY	275	8,250
625	25	6	g	1	Refrigerator(2 cf)	1	Refrigerator	100	100
637	8	6	v	1	Vegetation	10	CY	275	2,750
641	4	6	v	1	Compacted Vegetation	31	CY	680	21,080
642	4	6	v	1	Vegetation	20	CY	275	5,500
642	4	6	v	1	Compacted Vegetation	8.27	CY	680	5,624
643	41	6	v	-1	Vegetation	0.1	CY	275	-28
647	6	6	g	-1	Containerized Garbage	22	CY	158	-3,476
650	53	6	g	1	Containerized Garbage	2	CY	158	316
656	12	6	g	1	Containerized Garbage	100	Pounds	1	100
662	26	6	v	1	Vegetation	2	CY	275	550
664	2	6	v	1	Compacted Vegetation	20.67	CY	680	14,056
674	26	6	v	1	Vegetation	4	CY	275	1,100
675	6	6	g	-1	Containerized Garbage	5.48	CY	158	-866
685	18	6	g	-1	Vegetation	3.8	CY	275	-1,045
686	18	6	v	1	Vegetation	5.7	CY	275	1,568
687	18	6	v	1	Vegetation	5.7	CY	275	1,568
688	18	6	g	-1	Vegetation	3.8	CY	275	-1,045
689	18	6	g	-1	Vegetation	3.8	CY	275	-1,045
690	15	7	v	1	Vegetation	35	CY	275	9,625
692	10	7	v	1	Vegetation	55	CY	275	15,125
698	8	7	v	1	Vegetation	8	CY	275	2,200
699	26	7	v	1	Vegetation	16	CY	275	4,400
700	18	7	g	1	Refrigerator	2	Refrigerator	330	660
700	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
701	18	7	v	1	Vegetation	45.6	CY	275	12,540

Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
702	18	7	v	1	Vegetation	498	Pounds	1	498
703	18	7	g	1	Stove	1	Stove	150	150
703	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
704	18	7	g	1	Washing Machine	2	Washer	165	330
704	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
705	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
706	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
708	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
709	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
711	18	7	g	-1	Vegetation	498	Pounds	1	-498
714	29	7	v	1	Vegetation	15	CY	275	4,125
715	5	7	v	1	Compacted Vegetation	11.625	CY	680	7,905
752	4	7	v	1	Vegetation	15	CY	275	4,125
752	4	7	v	1	Compacted Vegetation	31	CY	680	21,080
729	54	7	g	-1	Non-conforming Waste	13	Cans	23	-299
735	40	7	v	1	Vegetation	8	CY	275	2,200
740	30	7	v	1	Vegetation	10	CY	275	2,750
744	54	7	g	-1	Non-conforming Waste	6	Cans	23	-138
755	26	7	v	1	Vegetation	10	CY	275	2,750
765	13	7	v	1	Lynn Bestul	1	Lynn Bes	210	210
767	29	7	g	-1	Non-conforming Waste	8	Cans	23	-184
767	29	7	g	-1	Non-conforming Waste	2	Bags	23	-46
767	29	7	g	1	Refrigerator	1	Refrigera	330	330
767	29	7	g	1	Pallets	12	Pallets	100	1,200
767	29	7	g	1	Mattress and Box Spring	1	Bed	100	100
767	29	7	g	1	Chairs	3	Chairs	30	90
767	29	7	g	1	Bags	4	Bags	23	92
767	29	7	g	1	Video Game	1	Game	200	200
767	29	7	g	1	Lumber	2	CY	500	1,000
774	6	7	g	-1	Non-conforming Container	6	CY	158	-948
775	6	7	g	-1	Non-conforming Container	4.4	CY	158	-695
775	6	7	g	-1	Non-conforming Container	6	CY	158	-948
799	2	7	v	1	Compacted Vegetation	16.66	CY	680	11,329
800	6	7	g	-1	Non-conforming Container	4.08	CY	158	-645
801	6	7	g	-1	Non-conforming Container	4.02	CY	158	-635
806	2	8	v	1	Compacted Vegetation	25	CY	680	17,000
825	25	8	v	1	Vegetation	5	CY	275	1,375
832	29	8	g	-1	Non-conforming Waste	7	Cans	23	-161
832	29	8	g	-1	Non-conforming Waste	1	Bags	23	-23
832	29	8	g	1	Trash	18	CY	500	9,000
833	4	8	v	1	Compacted Vegetation	31	CY	680	21,080
834	4	8	v	1	Compacted Vegetation	22.63	CY	680	15,388
841	54	8	g	-1	Non-conforming Waste	11	Cans	23	-253
844	15	8	g	-1	Non-conforming Waste	3	Bags	23	-69
848	54	8	g	-1	Non-conforming Waste	9	Cans	23	-207
849	29	8	g	-1	Non-conforming Waste	3	Cans	23	-69
849	29	8	g	1	Carpet	1	Rolls	150	150
853	15	8	g	-1	Non-conforming Waste	6	Bags	23	-138
861	5	8	v	1	Compacted Vegetation	16	CY	680	10,880
861	5	8	v	1	Vegetation	8	CY	275	2,200
864	31	8	v	1	Vegetation	12	CY	275	3,300
865	3	8	g	-1	Non-conforming Waste	8	Cans	23	-184
866	29	8	v	1	Vegetation	30	CY	275	8,250
873	11	8	v	1	Vegetation	5	CY	275	1,375
875	15	8	v	1	Vegetation	12	CY	275	3,300
882	18	8	g	-1	Vegetation	6.4	CY	275	-1,760
883	18	8	g	-1	Vegetation	4.8	CY	275	-1,320
884	18	8	g	-1	Vegetation	5.12	CY	275	-1,408
885	18	8	g	-1	Vegetation	19.2	CY	275	-5,280
886	18	8	g	-1	Vegetation	25.6	CY	275	-7,040
887	18	8	g	-1	Vegetation	25.6	CY	275	-7,040
891	10	8	v	1	Vegetation	15	CY	275	4,125
892	30	8	g	-1	Non-conforming Waste	10	Bags	23	-230
896	6	8	g	-1	Non-conforming Container	8	CY	158	-1,264
896	6	8	g	-1	Non-conforming Container	2.76	CY	158	-436
896	6	8	g	-1	Non-conforming Container	7.04	CY	158	-1,112
917	30	9	g	-1	Non-conforming Waste	6	Bags	23	-138
925	6	8	g	-1	Non-conforming Container	6	CY	158	-948
925	6	8	g	-1	Non-conforming Container	7.04	CY	158	-1,112
925	6	8	g	1	Missed Units	258	Pounds	1	258
926	3	9	g	-1	Non-conforming Waste	5	Cans	23	-115
928	30	9	g	-1	Non-conforming Waste	8	Bags	23	-184
940	30	9	g	-1	Non-conforming Waste	14	Bags	23	-322
944	6	9	g	-1	Non-conforming Container	6	CY	158	-948
944	6	9	g	-1	Non-conforming Container	5.28	CY	158	-834
944	6	9	g	-1	Non-conforming Container	5.2	CY	158	-822
952	12	9	g	1	Wood and Cabinets	4	CY	500	2,000
960	12	9	g	1	Furniture and Cabinets	12	CY	500	6,000
961	29	9	v	1	Vegetation	32	CY	275	8,800
971	31	9	v	1	Vegetation	10	CY	275	2,750
974	25	9	v	1	Vegetation	17	CY	275	4,675
978	6	9	g	-1	Non-conforming Container	4.32	CY	158	-683

Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
978	6	9	g	-1	Non-conforming Container	4.14	CY	158	-654
982	8	9	v	1	Vegetation	23	CY	275	6,325
989	10	9	v	1	Vegetation	15	CY	275	4,125
990	18	7	g	-1	Vegetation	5.7	CY	275	-1,568
991	18	8	v	1	Vegetation	86.72	CY	275	23,848
994	9	9	v	1	Compacted Vegetation	10.3	CY	680	7,004
995	9	9	v	1	Compacted Vegetation	15.5	CY	680	10,540
998	29	9	g	-1	Non-conforming Waste	3	Cans	23	-69
999	54	9	g	-1	Non-conforming Waste	14	Cans	23	-322
1001	46	9	v	1	Vegetation	4	CY	275	1,100
1002	15	9	g	-1	Non-conforming Waste	6	Bags	23	-138
1004	30	9	v	1	Vegetation	26	CY	275	7,150
1007	54	9	g	-1	Non-conforming Waste	9	Cans	23	-207
1010	5	9	v	1	Compacted Vegetation	20.6	CY	680	14,008
1011	26	9	v	1	Vegetation	16	CY	275	4,400
1016	9	9	v	1	Compacted Vegetation	7.5	CY	680	5,100
1023	29	9	g	-1	Non-conforming Waste	6	Cans	23	-138
1023	29	9	g	1	Fencing	1	CY	500	500
1023	29	9	g	1	Sofa and Love Seat	1	Sofa/LS	300	300
1025	2	9	v	1	Compacted Vegetation	31	CY	680	21,080
1026	2	9	v	1	Compacted Vegetation	7.75	CY	680	5,270
1026	2	9	v	1	Vegetation	10	CY	275	2,750
1030	4	9	v	1	Compacted Vegetation	31	CY	680	21,080
1031	4	9	v	1	Compacted Vegetation	31	CY	680	21,080
1034	18	9	g	-1	Trash	0.5	CY	500	-250
1034	18	9	g	-1	Vegetation	6.75	CY	275	-1,856
1035	18	9	g	-1	Vegetation	9.1	CY	275	-2,503
1036	18	9	g	-1	Vegetation	21.05	CY	275	-5,789
1037	18	9	v	1	Vegetation	36.9	CY	275	10,148
1046	15	10	g	-1	Non-conforming Waste	5	Bags	23	-115
1050	29	10	g	-1	Non-conforming Waste	8	Cans	23	-184
1050	29	10	g	1	Furniture and Cabinets	8	CY	500	4,000
1050	29	10	g	1	Concrete	1	CY	4,050	4,050
1050	29	10	g	1	Sofa Bed	1	Sofa/LS	250	250
1050	29	10	g	1	Loveseat	1	Sofa/LS	150	150
1050	29	10	g	1	Chairs	1	Chairs	30	30
1050	29	10	g	1	Fencing	4	CY	500	2,000
1050	29	10	g	1	Refrigerator	1	Refrigera	330	330
1050	29	10	g	1	Air Conditioner (8000 BTU)	1	1 AC	100	100
1062	54	10	g	-1	Non-conforming Waste	12	Cans	23	-276
1067	29	10	g	-1	Non-conforming Waste	6	Cans	23	-138
1067	29	10	g	1	Fencing	6	CY	500	3,000
1074	54	10	g	-1	Non-conforming Waste	12	Cans	23	-276
1077	12	10	g	1	Carpet	4	CY	500	2,000
1077	12	10	g	1	Furniture and Cabinets	15	CY	500	7,500
1080	6	10	g	1	Missed Units	36	Units	7.11	256
1081	6	10	g	-1	Non-conforming Container	10.8	CY	158	-1,706
1083	5	10	g	-1	Non-conforming Waste	2	Bags	23	-46
1088	30	10	g	-1	Non-conforming Waste	6	Bags	23	-138
1098	15	10	v	1	Vegetation	4	CY	275	1,100
1099	2	10	v	1	Compacted Vegetation	23.25	CY	680	15,810
1102	26	10	g	1	Refrigerator	1	Refrigera	330	330
1104	12	10	g	1	Carpet	4	CY	500	2,000
1106	5	10	g	-1	Non-conforming Waste	2	Bags	23	-46
1110	28	10	v	1	Vegetation	26	CY	275	7,150
1114	10	10	v	1	Vegetation	8	CY	275	2,200
1117	11	10	g	1	Vegetation	18	CY	275	4,950
1119	26	10	g	1	Refrigerator	1	Refrigera	330	330
1121	6	10	g	1	Refrigerator	1	Refrigera	235	235
1121	6	10	g	-1	Non-conforming Container	5.82	CY	158	-920
1123	10	10	v	1	Vegetation	30	CY	275	8,250
1124	15	11	v	1	Vegetation	20	CY	275	5,500
1124	15	11	v	-1	Vegetation	2	Bags	23	-46
1125	4	11	v	1	Compacted Vegetation	31	CY	680	21,080
1126	4	11	v	1	Compacted Vegetation	18.6	CY	680	12,648
1128	29	10	v	1	Vegetation	25	CY	275	6,875
1130	31	10	v	1	Vegetation	21	CY	275	5,775
1131	26	10	v	1	Vegetation	14	CY	275	3,850
1136	25	11	v	1	Vegetation	18	CY	275	4,950
1137	29	11	v	1	Vegetation	43	CY	275	11,825
1140	26	11	v	1	Vegetation	8	CY	275	2,200
1142	5	10	v	1	Compacted Vegetation	12.92	CY	680	8,786
1157	29	11	v	1	Vegetation	12	CY	275	3,300
1160	8	11	v	1	Vegetation	25	CY	275	6,875
1161	5	11	v	1	Compacted Vegetation	25.8	CY	680	17,544
1164	29	11	v	1	Vegetation	73	CY	275	20,075
1165	18	11	g	-1	Vegetation	56	CY	275	-15,400
1169	18	11	v	1	Vegetation	56	CY	275	15,400
1169	18	11	g	1	Washing Machine	3	Washer	165	495
1169	18	11	g	1	Dryer	1	Dryer	135	135
1172	18	10	g	-1	Vegetation	12	CY	275	-3,300
1172	18	10	g	1	Washing Machine	3	Washer	165	495

**Residential Generation Study
Required Adjustments for Non-conforming and Bulk Waste**

ID	Route	Series	Waste	Add/Del	Description	Quantity	Units	Conversion	Weight
1172	18	10	g	1	Dishwasher	1	Dishwast	100	100
1172	18	10	g	1	Stove	2	Stove	150	300
1172	18	10	g	1	Refrigerator	2	Refrigera	330	660
1172	18	10	g	1	Freezer	1	Freezer	250	250
1173	18	10	g	-1	Vegetation	12	CY	275	-3,300
1174	18	10	v	1	Vegetation	15	CY	275	4,125
1175	18	10	g	-1	Vegetation	12	CY	275	-3,300
1176	18	10	v	1	Vegetation	15	CY	275	4,125
1177	18	10	v	1	Vegetation	17.25	CY	275	4,744
1178	18	10	g	-1	Vegetation	11.25	CY	275	-3,094
1179	4	11	v	1	Compacted Vegetation	31	CY	680	21,080
1179	4	11	v	1	Vegetation	15	CY	275	4,125
1180	29	11	g	1	Trash	17	CY	500	8,500
1184	25	11	v	1	Vegetation	11	CY	275	3,025
1187	54	11	g	-1	Non-conforming Waste	10	Cans	23	-230
1191	9	11	v	1	Compacted Vegetation	2.58	CY	680	1,754
1199	9	11	v	1	Vegetation	0	CY	275	0
1210	30	11	v	1	Vegetation	15	CY	275	4,125
1214	54	11	g	-1	Non-conforming Waste	9	Cans	23	-207
1215	29	11	g	-1	Non-conforming Waste	5	Cans	23	-115
1215	29	11	g	-1	Non-conforming Waste	1	Bags	23	-23
1218	40	11	v	1	Vegetation	4	CY	275	1,100
1223	28	11	v	1	Vegetation	10	CY	275	2,750
1224	2	11	v	1	Compacted Vegetation	15.5	CY	680	10,540
1230	26	11	g	1	Pallets	3	CY	500	1,500
1282	2	12	v	1	Vegetation	20	CY	275	5,500
1282	2	12	v	1	Compacted Vegetation	24.8	CY	680	16,864
1283	5	12	g	-1	Non-conforming Waste	1	Bags	23	-23
1287	31	12	g	1	Refrigerator	1	Refrigera	330	330
1288	28	12	v	1	Vegetation	24	CY	275	6,600
1294	15	12	v	1	Vegetation	40	CY	275	11,000
1295	10	12	v	1	Vegetation	2	CY	275	550
1300	18	12	g	-1	Vegetation	6.4	CY	275	-1,760
1301	18	12	g	-1	Vegetation	6.4	CY	275	-1,760
1302	18	12	g	-1	Vegetation	6.4	CY	275	-1,760
1303	18	12	v	1	Vegetation	26.8	CY	275	7,370
1304	18	12	g	-1	Vegetation	3.8	CY	275	-1,045
1305	18	12	g	-1	Vegetation	3.8	CY	275	-1,045
1307	10	12	v	1	Vegetation	10	CY	275	2,750
1308	5	12	v	1	Compacted Vegetation	7.75	CY	680	5,270
1312	29	12	v	1	Vegetation	18	CY	275	4,950
1313	26	12	v	1	Vegetation	12	CY	275	3,300
1317	25	12	v	1	Vegetation	8	CY	275	2,200
1322	29	12	v	1	Vegetation	10	CY	275	2,750
1324	4	12	v	1	Compacted Vegetation	31	CY	680	21,080
1327	26	12	v	1	Vegetation	9	CY	275	2,475
1338	29	12	g	1	Trash	15	CY	500	7,500
1338	29	12	g	-1	Non-conforming Waste	1	Bags	23	-23
1338	29	12	g	-1	Non-conforming Waste	2	Cans	23	-46
1413	54	12	g	-1	Non-conforming Waste	10	Cans	23	-230
1414	29	12	g	-1	Non-conforming Waste	8	Cans	23	-184
1425	30	12	g	-1	Non-conforming Waste	6	Bags	23	-138
1435	46	12	v	1	Vegetation	8	CY	275	2,200
1438	30	12	g	-1	Non-conforming Waste	4	Bags	23	-92