

The Current Level Of Composting In The City Of Woodstock



Prepared for: WASTE DIVERSION ORGANIZATION

Prepared by: Rick D'Entremont
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March 2001



CITY ENGINEER
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OFFICE OF THE

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March 13, 2001

Waste Diversion Organization
26 Wellington Street East, Suite 601
Toronto, Ontario M5E 1S2

Attention: Chris van Rossem

Dear Sir:

RE: PROJECT ORGANIC TASK GROUP, ORG 3

Attached to this letter is our report on the level of composting in the City of Woodstock. We must apologize for the length of time that has elapsed between the completion of the survey and the finalization of this report. A reduction of supervisory staff due to illness and several one-time studies resulted in a lesser priority for this project than would normally have been appropriate.

This report has three phases: -

The first was to collect data on the current level of composting in the City of Woodstock. We have included data to exhibit to what extent composters are used to divert organic waste, the types of organic wastes diverted, as well as other factors that may affect diversion rates.

The second phase included volunteers for an in-depth, 8-week study based on kitchen organic waste. These participants were encouraged to record the weight of their kitchen organic waste on a daily basis and were encouraged not to change their previous diversion habits until the end of the survey to attempt to establish a current baseline diversion.

The third phase involved collection and analysis of the data that we are submitting to you with our conclusions.

Yours sincerely

Rick D'Entremont
Works Supervisor – Waste Programs

Wendy Deroo
Waste Management Student

FINAL REPORT

INTRODUCTION

The joint WDO and City of Woodstock project was targeted to measure the extent of current organics diversion in the City of Woodstock. **The particular emphasis of the project was to measure the level of kitchen organics diversion.**

In order to understand the project emphasis it is important to understand the current City of Woodstock organics diversion program. The City of Woodstock provides a central drop-off depot for leaves, yard waste and grass that is open year round and at maximum distance of 5 km from all residences (leaves and grass are also banned from garbage). We have also participated in the former M.O.E. composter sales program and subsequently initiated our own internally subsidized composter program. To date approximately 4,850 manufactured composters have been sold to residents ⇒ approximately 50% of single/ semi-detached homes have composters.

In 1999 diversion of leaves, grass and yard waste was estimated at 3,640 tonnes which equates 345 kg per year, (5.75 kg/week) per single/semi-detached home. As a result we believe the City of Woodstock diverts the vast majority of leaves, grass and yard waste from landfill leaving a negligible amount in the waste stream. This leaves kitchen waste as the main organic waste stream where diversion rates are uncertain and most likely the best opportunity for further organic waste diversion with the City of Woodstock.

KEY SURVEY RESULTS

MEASURED

# of single/semi-detached homes in Woodstock	10,500 Units
% of homes with composters	50%
% of homes actively composting at home	54%
Size of sample group measuring organics diversion	39 Units
Average measured weight of kitchen organics diverted (Year 2000)	4.07 kg/wk/unit
Average residential garbage set out (Year 1999)	10.31 kg/wk/unit
% with composters that compost year round including winter	71%
% with composters reducing or ceasing composting in winter	29%

CALCULATED BASED ON SURVEY

From questions 3.3 (% Composting) and 3.14 (% Composting In Winter)
(assuming winter = 5 months, 12% reduce activity by 70%)

% of available kitchen compostables diverted	42.87%
Average composted per house per week (4.07 x 0.4287)	1.75 kg
City-wide composted per week (1.75 x 10,500)	18.38 t
City-wide kitchen waste diverted per year	1,099 t
Theoretical tonnage remaining in garbage	1,465 t
Theoretical % compostables still in garbage	22.57%
Theoretical % compostables to total waste stream (including compostables)	33.80%

1998 WASTE AUDIT

50 Homes – garbage collected, separated and weighed

% compostables in garbage stream – 1998	29.15%
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COMMENTARY ON RESULTS

The survey results indicate 50% to 54% of Woodstock residents in low density residential are actively backyard composting to reduce the volume of kitchen organic waste going to landfill. This data is substantiated by the number of manufactured composter sales over the past 6 years (4,850) versus the number of suitable backyard sites (10,500).

The uncertainty or opportunity for Woodstock and other similar municipalities relates to the actual percentage of kitchen compostables that are currently being diverted and the percentage remaining in the waste stream. The current (2000) survey indicates that approximately 43% is being diverted while 57% remains in the waste stream. A further deduction from the results indicates that 22% of the waste stream is still kitchen organics but this is somewhat at odds with a 1998 waste audit that indicated the garbage stream contained 29% compostables. As the average set out has decreased by approximately 5% over the same time period it is likely some of this reduction is related to increased composting while some is likely increased recycling. It is therefore likely that the waste stream currently contains 24% to 26% compostables and the actual diversion is may be slightly lower than the survey indicates and probably in the range of

35% to 40% diversion. This likely means diversion is closer to 1,000 tonnes per year while approximately 1,600 tonnes remains as potential diversion.

How do we accomplish a further increase in kitchen organics diversion? The answer probably lies in both continued education through awareness advertizing and composting seminars and possible continued subsidization of backyard composter programs. We would, therefore, encourage W.D.O. to consider continuing the free advertizing space campaign and also a possible re-introduction of backyard composter subsidies.

SUMMARY AND CONCLUSIONS

Survey response was good. Many citizens were eager to share their opinions and their knowledge of composting procedures. Participants were eager to talk about problems with composters. Information was provided to those that did not understand the basic fundamentals of composting. All volunteers completed the 8-week in-depth study of kitchen organic waste.

It is likely the survey overstates the volume of kitchen waste diverted (1,099 t) due to the summer timing with the seasonal increase in affordable fresh produce. Also, even though participants were encouraged not to change their previous diversion habits, it is probable the increased awareness resulted in an escalation of product composted.

Generally Woodstock citizens do consider diversion and composting important and respond to initiatives to increase their knowledge and hence their waste diversion.

Current diversion is likely in the 35% to 40% range for kitchen organics and programs should be continued to promote further increases in diversion.

We will continue with our composting tips and awareness advertizing campaign in our "What's On" magazine through the spring of 2001.

ADDENDA TO THE REPORT

A1	Copy Of Letter And Composting Survey	4 pages
A2	Composting Survey Results In Chart Form	10 pages
A3	Weekly Measurements Of Kitchen Waste Diversion By Individual Survey Participants	3 pages
A4	1998 City Waste Audit	2 pages



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City of Woodstock

Composting Survey

We need your help!

You have been selected randomly to participate in a waste diversion survey to determine the current level of organic waste diversion by City residents. In partnership with the Ontario's Waste Diversion Organization, the City of Woodstock is one of four Municipalities collecting data on Organics diversion with particular emphasis on determining the current level of "Kitchen Organics" diversion within the City.

YOUR INPUT IS JUST AS IMPORTANT IF YOU DO NOT COMPOST AS IT IS IF YOU DO COMPOST.

Please take five minutes to complete the enclosed survey and return it to us in the self-addressed envelope. The information will be utilized by the City and the Province to determine the best approach to providing practical solutions to increase organics diversion. The information you provide will remain confidential on an individual basis and will only be used in an aggregate fashion. There will be no negative impact from this survey for anyone who does not compost.

For further information or questions please contact Rick D'Entremont or Wendy Deroo at 539-2382 at Ext. 830.

All participants will be entered in a draw for a number of rainbarrels and composters.

Composting Survey for the City of Woodstock

Name: _____
 Address: _____
 City: _____
 Postal Code: _____
 Phone Number: _____

- 1. Do you think waste management is generally an important issue? Yes No
- 2. Do you agree with user pay systems for more effective waste management? Yes No
- 3. Do you think backyard-composting programs are an effective way to divert organic wastes from landfill? Yes No
- 4. What is the most important "R" (choose only one)? refuse reduce reuse recycle
- 5. Do you compost at home? Yes No

If your above answer to question number 5 is NO please answer question numbers 6 through 8.
If your above answer to question number 5 is YES please go to question number 9 (Page No. 2).

6. Please explain briefly why you do not compost at home.

- 7. Do you use the City Yard Waste Depot for any organic waste? Yes No
- 8. If the above answer is yes, what percentage of your organic waste would you estimate you bring to the City Yard Waste Depot? _____%

Thank you for your time.

9. How do you compost? Homebuilt/Pile Purchased Composter City Yard Waste Depot

10. What materials do you compost?

Home:

Leaves Grass Yard Waste Kitchen Other

City Yard Waste Depot:

Leaves Grass Yard Waste Kitchen Other

11. Estimate percentage composted in each of the following:

_____ % Leaves _____ % Grass _____ % Yard Waste _____ % Kitchen _____ % Other

12. How many composters are in use at your residence? One Two Three Four

13. Have you received instructions on basic composting? Yes No

14. Do you understand the basic fundamentals to composting? Yes No

15. Would you go to a composting seminar if offered? Yes No

16. Does your combination of material compost well together? Yes No

17. How long does your organic matter typically take to compost? _____ weeks _____ months _____ years

18. a) Have you had any problems with odour from your compost? Yes No

b) If odours occur, how are they handled? Please explain your course of action.

19. Do you have a problem with pests?

20. What do you do in the winter regarding composting?

21. How much time (average per week) would you say you spent on composting? _____ hours

22. How much kitchen organic waste do you believe is diverted by composting within your household?

Winter	<input type="checkbox"/> 10%	<input type="checkbox"/> 20%	<input type="checkbox"/> 40%	<input type="checkbox"/> 60%	<input type="checkbox"/> 80%	<input type="checkbox"/> 100%
Summer	<input type="checkbox"/> 10%	<input type="checkbox"/> 20%	<input type="checkbox"/> 40%	<input type="checkbox"/> 60%	<input type="checkbox"/> 80%	<input type="checkbox"/> 100%

23. Overall thoughts on composting – any comments at all.

24. Would you be willing to participate in an 8-week study of composting diversion by supplying statistical data regarding daily weight? Yes No
(Kitchen catchers and scales will be provided if needed.)

Thank you for your time.

If you have any questions regarding this project please contact: Rick D’Entremont, The City Works Department, telephone (519) 539-2382 Extension 818.

If you have any questions regarding “how to compost” or general composting questions, please contact Wendy Deroo at The City Works Department, telephone (519) 539-2382, Extension 830.

1.0 Introduction

The purpose of this study is to determine the current level of composting in the City of Woodstock. Obtaining actual weights allows for accurate calculation as to the level of waste diversion to the local landfill.

2.0 Scope of Work

2.1 Phase One – Development Questionnaire

The first phase of this project involved accumulating 400 random names and addresses of residents from the City of Woodstock and mailing out the enclosed survey. Self-addressed, postage-paid envelopes were provided for, in order to encourage a high level of return. 149 surveys were filled out and returned while an additional 21 were returned by the post office, as the address was no longer valid. 106 residents of Woodstock were contacted by phone and the survey was completed verbally. One gentleman who did not understand English was unable to answer any questions. A total of 255 surveys were received completed.

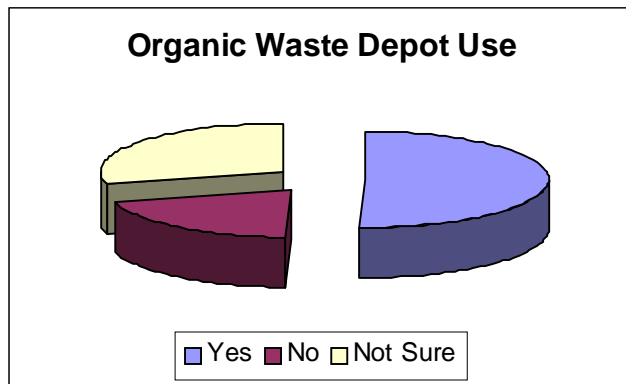
2.2 The second phase of this project involved recruiting participants willing to measure, by weight, the weekly diversion of their kitchen organic waste. Participants were provided with kitchen catcher buckets, weight scales, data sheets and self-stamped – postage paid envelopes (to mail back information) in order to provide an accurate accumulation of data. **Participants were encouraged not to change their previous diversion habits until the end of the survey to attempt to establish a current baseline diversion rate.**

3.0 Results of Questionnaire

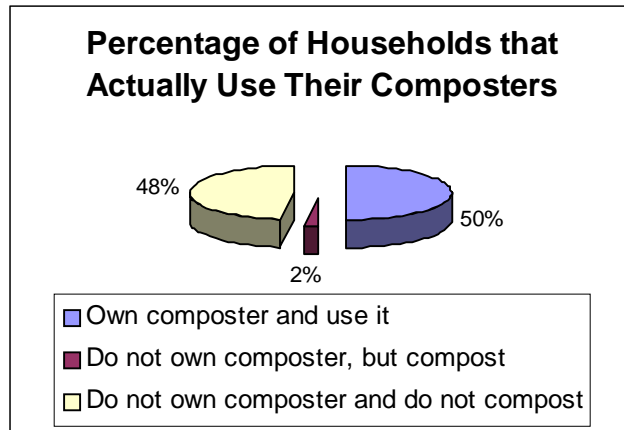
3.1 Data collected indicates 99% of all citizens surveyed believe waste management is an important issue.



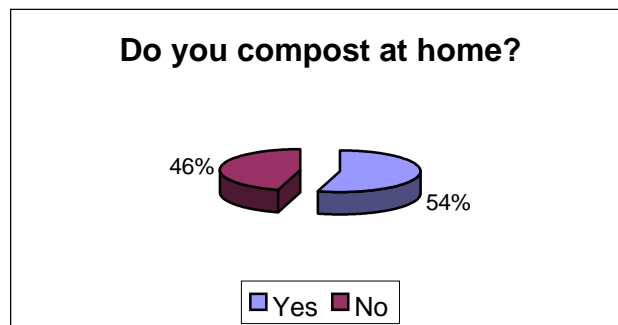
3.2 The City of Woodstock has a Waste Depot for residents to drop off organic waste. 51% surveyed take advantage of this service.



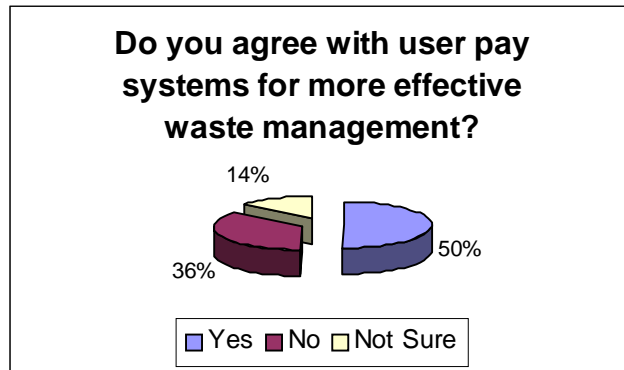
- 3.3 Households that compost, including home or city yard depot works out to 50% (48% at both home and the city depot and 2% at the city depot only).



- 3.4 Of all people with composters, 100% said they did compost to some degree. Of all survey respondents 54% composted at home. (46% did not compost at home.)



- 3.5 A very debatable issue today is the user pay system for more effective waste management. We included this issue in our survey and found 50% of citizens surveyed were in agreement with this system, 36% against and 14% needed more information before they could decide. (No cost or other information was provided.)

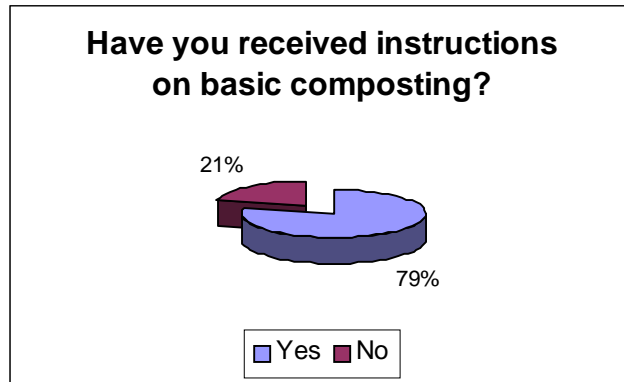


- 3.6 Backyard composting effectively diverts organic waste from landfills. 85% surveyed are in agreement with this, 10% do not agree this system is effective and 5% are not sure.

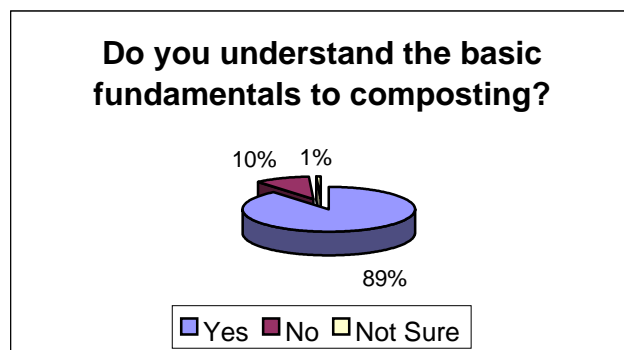
3.7



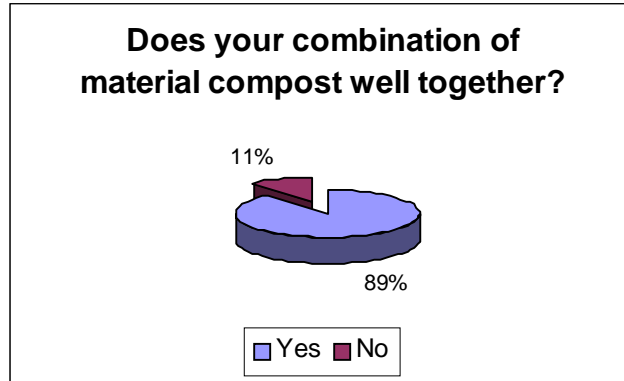
- 3.8 Generally 79% of all surveyed have had instructions on basic composting. This number was 79% in each both the telephone and the mail-out survey.



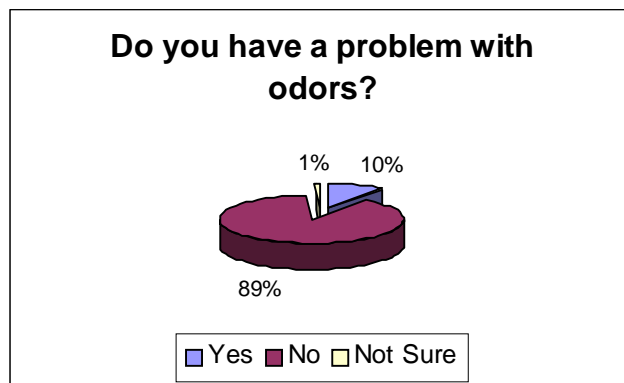
- 3.8 Knowledge on the basic fundamentals to composting was high. 89% of all surveyed felt they understood the basic fundamentals, 10% did not understand the basic fundamentals and 1% were not sure if they understood the basic fundamentals.



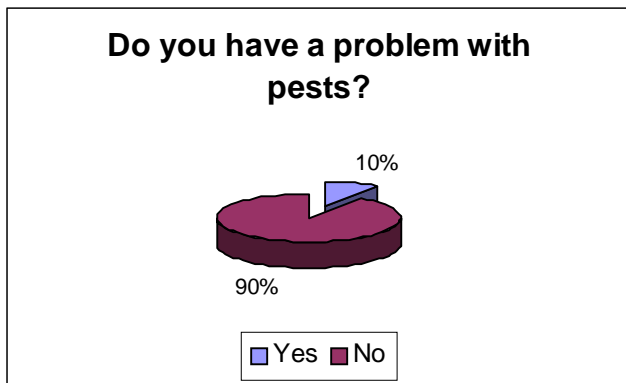
- 3.9 The number of surveyed citizens which felt that their combination of materials compost well together was at 89%, this matches with figures of whether they understand the basic fundamentals or not.



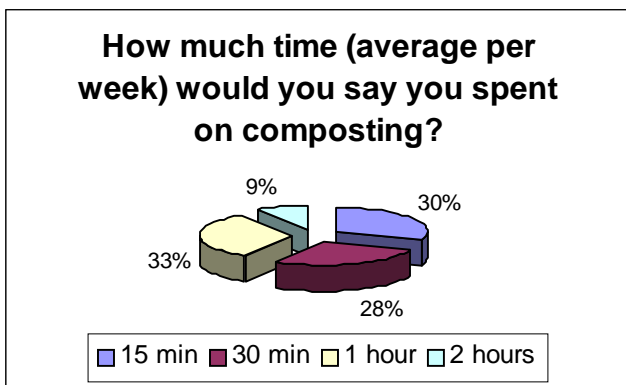
- 3.10 Do they have problems with odors? Again the figures match with the knowledge of the basic fundamentals, 89% of all surveyed said they did not have any problems with odors from their compost.



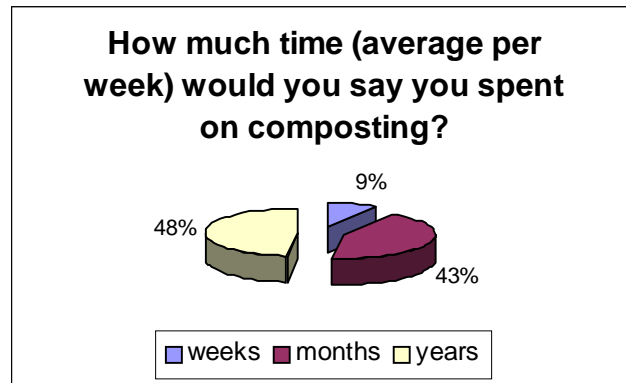
- 3.11 Do they have problems with pests? 90% of all surveyed have not had problems with pests which included rodents, birds or animals. We did not consider bugs to be pests.



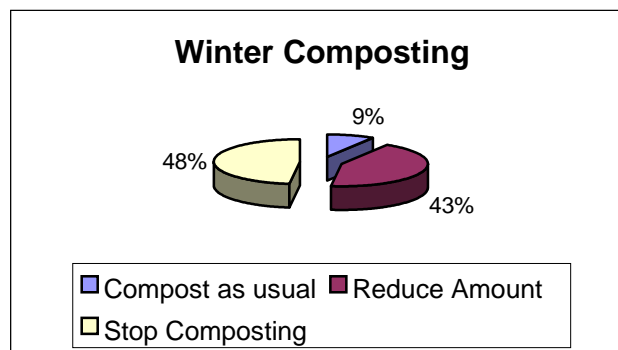
- 3.12 The general amount of time participants spent of composting was 15 minutes to 1 hour. Many people on the mail-out version left this area blank.



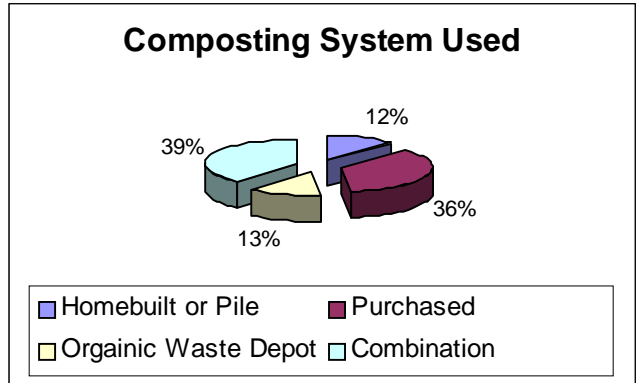
- 3.13 With 48% of participants surveyed reporting that their material in the composter takes years to break down, 43% says theirs takes months and 9% says theirs typically takes weeks.



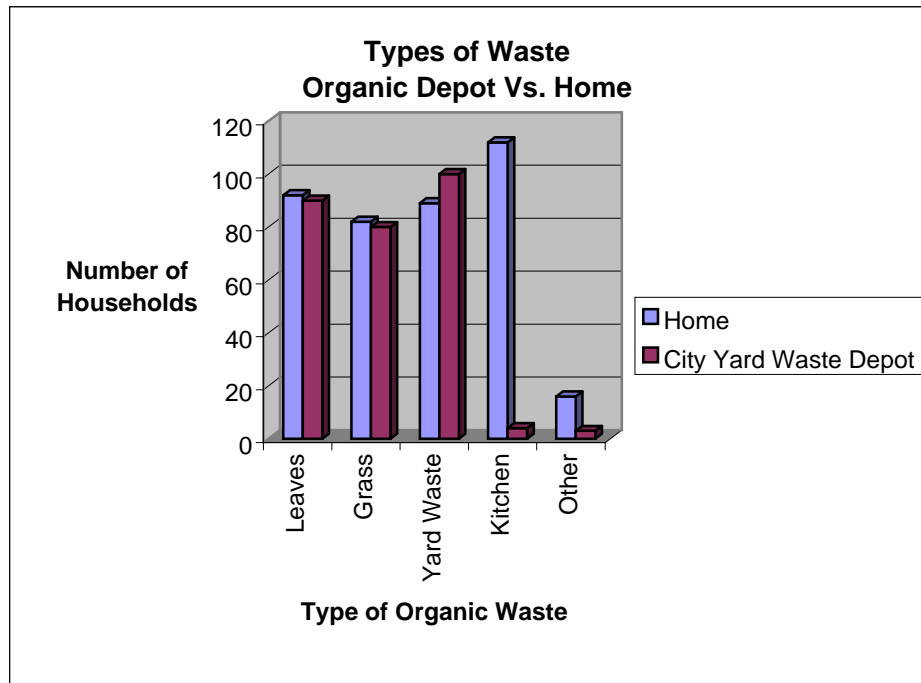
- 3.14 Winter does effect the amount of composting of kitchen organic waste. 17% of all surveyed reported that they stop composting completely. 12% reduced the amount of composting, while 71% claim they continue to compost as usual.



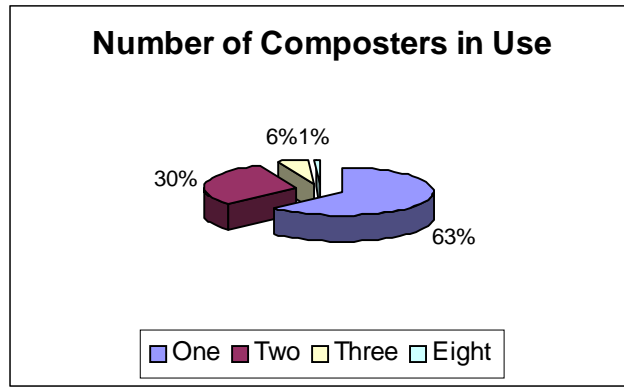
3.15 The majority (39%) of people who compost used a combination of purchased composters and city waste depot for their composting, 27% used purchased composters only, while 16% used homebuilt or piles for their composting. A combination of homebuilt, purchased and city waste depot was 8%, homebuilt and purchased only was 6% and the remaining 4% used only the city waste depot for their composting.



3.16 Types of waste composted at the city waste depot compared to the organic waste composted at home found that kitchen organics was mainly composted at home, but all other organic wastes (leaves, grass, yard waste) were equally composted either at the city yard depot or at home.



- 3.17 The majority of households had two composting systems in place (53%), 20% had three, 19% had one and 1 household had eight systems in place.



Diversion of Kitchen Organic Waste				
Week	Date		Per Week	Per Year
			Kilograms	Kilograms
August 7, 2000		Week One	0.67	244.86
August 14, 2000		Week Two	0.70	254.09
August 21, 2000		Week Three	0.65	238.88
August 28, 2000		Week Four	0.65	231.90
September 4, 2000		Week Five	0.51	186.21
September 11, 2000		Week Six	0.56	206.05
September 18, 2000		Week Seven	0.63	229.80
September 25, 2000		Week Eight	0.57	209.18
		8 - Week Study Average Per Household	0.62	225.12
Number of Participants			39	
Average Household Size			2.80	

Diversion Data Sheet - Weeks One to Four												
Name	Week One			Week Two			Week Three			Week Four		
	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day
Participant No. 1	3.69	6.00	0.61	4.00	7.00	0.57	2.47	7.00	0.35	3.55	7.00	0.51
Participant No. 2	6.35	7.00	0.91	6.80	7.00	0.97	3.01	5.00	0.60	2.04	7.00	0.29
Participant No. 3	1.69	7.00	0.24	0.88	7.00	0.13	1.19	7.00	0.17	2.15	7.00	0.31
Participant No. 4	2.72	7.00	0.39	7.29	7.00	1.04	4.17	7.00	0.60	5.30	7.00	0.76
Participant No. 5	0.00	0.01	0.00	2.21	7.00	0.32	3.60	7.00	0.51	3.15	7.00	0.45
Participant No. 6	1.70	5.00	0.34	0.79	4.00	0.20	3.63	5.00	0.73	2.49	5.00	0.50
Participant No. 7	2.44	4.00	0.61	6.32	6.00	1.05	4.34	7.00	0.62	3.55	7.00	0.51
Participant No. 8	0.77	1.00	0.77	4.00	7.00	0.57	3.43	3.00	1.14	3.03	4.00	0.76
Participant No. 9	2.95	7.00	0.42	6.80	7.00	0.97	5.42	6.00	0.90	2.98	7.00	0.43
Participant No. 10	3.29	4.00	0.82	2.38	5.00	0.48	5.50	7.00	0.79	0.00	0.01	0.00
Participant No. 11	5.08	6.00	0.85	0.00	0.01	0.00	3.60	7.00	0.51	2.95	7.00	0.42
Participant No. 12	1.39	7.00	0.20	1.67	5.00	0.33	1.53	7.00	0.22	2.35	7.00	0.34
Participant No. 13	4.14	7.00	0.59	3.09	7.00	0.44	3.69	7.00	0.53	5.47	7.00	0.78
Participant No. 14	14.26	7.00	2.04	16.47	7.00	2.35	8.48	7.00	1.21	10.15	5.00	2.03
Participant No. 15	4.31	7.00	0.62	2.61	1.00	2.61	0.00	0.01	0.00	5.25	7.00	0.75
Participant No. 16	8.56	7.00	1.22	8.88	7.00	1.27	6.69	7.00	0.96	7.94	7.00	1.13
Participant No. 17	4.71	4.00	1.18	6.16	6.00	1.03	3.71	7.00	0.53	2.89	5.00	0.58
Participant No. 18	1.93	7.00	0.28	4.20	7.00	0.60	5.44	6.00	0.91	2.98	4.00	0.75
Participant No. 19	4.48	7.00	0.64	2.49	7.00	0.36	5.78	7.00	0.83	3.66	7.00	0.52
Participant No. 20	4.64	7.00	0.66	1.90	7.00	0.27	3.91	7.00	0.56	3.35	6.00	0.56
Participant No. 21	11.09	7.00	1.58	11.45	7.00	1.64	10.01	7.00	1.43	11.54	7.00	1.65
Participant No. 22	4.34	7.00	0.62	2.58	7.00	0.37	2.27	7.00	0.32	2.41	7.00	0.34
Participant No. 23	8.93	7.00	1.28	5.73	7.00	0.82	5.70	7.00	0.81	3.71	6.00	0.62
Participant No. 24	2.44	7.00	0.35	1.59	7.00	0.23	3.69	7.00	0.53	0.00	0.01	0.00
Participant No. 25	4.76	7.00	0.68	6.12	7.00	0.87	4.45	7.00	0.64	4.62	7.00	0.66
Participant No. 26	7.62	6.00	1.27	8.11	7.00	1.16	6.44	7.00	0.92	10.21	7.00	1.46
Participant No. 27	0.57	6.00	0.09	0.29	3.00	0.10	1.19	7.00	0.17	1.67	7.00	0.24
Participant No. 28	3.29	7.00	0.47	0.97	5.00	0.19	4.14	5.00	0.83	4.34	6.00	0.72
Participant No. 29	3.60	7.00	0.51	1.39	7.00	0.20	1.70	4.00	0.43	3.35	7.00	0.48
Participant No. 30	8.35	7.00	1.19	8.25	7.00	1.18	5.96	7.00	0.85	3.52	7.00	0.50
Participant No. 31	3.76	7.00	0.54	6.10	7.00	0.87	4.74	7.00	0.68	5.53	7.00	0.79
Participant No. 32	1.45	7.00	0.21	5.22	7.00	0.75	4.25	7.00	0.61	4.59	7.00	0.66
Participant No. 33	4.68	6.00	0.78	2.33	5.00	0.47	1.47	5.00	0.29	0.00	0.01	0.00
Participant No. 34	6.07	7.00	0.87	7.60	7.00	1.09	5.42	7.00	0.77	9.27	7.00	1.32
Participant No. 35	3.60	7.00	0.51	4.20	7.00	0.60	7.03	7.00	1.00	3.60	7.00	0.51
Participant No. 36	2.01	4.00	0.50	0.54	1.00	0.54	2.21	4.00	0.55	3.26	7.00	0.47
Participant No. 37	4.76	7.00	0.68	0.00	0.01	0.00	5.67	6.00	0.94	5.98	5.00	1.20
Participant No. 38	3.15	7.00	0.45	2.38	6.00	0.40	6.80	7.00	0.97	3.06	5.00	0.61
Participant No. 39	1.36	7.00	0.19	0.97	7.00	0.14	0.43	4.00	0.11	1.28	7.00	0.18
Averages			0.67			0.70			0.65			0.64

Diversion Data Sheet - Weeks Five to Eight												
Name	Week Five			Week Six			Week Seven			Week Eight		
	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day	Kilograms	Days	Av. kgs per day
Participant No. 1	2.75	7.00	0.39	1.39	7.00	0.20	3.06	7.00	0.44	2.33	7.00	0.33
Participant No. 2	2.69	7.00	0.38	3.94	7.00	0.56	6.78	5.00	1.36	6.38	7.00	0.91
Participant No. 3	1.85	7.00	0.26	0.68	5.00	0.14	0.00	0.01	0.00	1.51	7.00	0.22
Participant No. 4	3.74	7.00	0.53	3.55	7.00	0.51	5.50	7.00	0.79	3.43	7.00	0.49
Participant No. 5	2.92	7.00	0.42	4.37	7.00	0.62	4.14	7.00	0.59	3.94	5.00	0.79
Participant No. 6	5.16	5.00	1.03	4.11	5.00	0.82	1.81	5.00	0.36	1.96	5.00	0.39
Participant No. 7	6.41	7.00	0.92	5.73	7.00	0.82	3.69	7.00	0.53	6.66	7.00	0.95
Participant No. 8	0.26	2.00	0.13	4.31	5.00	0.86	0.00	0.01	0.00	0.26	1.00	0.26
Participant No. 9	5.02	7.00	0.72	3.66	7.00	0.52	5.56	7.00	0.79	3.26	7.00	0.47
Participant No. 10	0.00	0.01	0.00	4.23	7.00	0.60	2.98	7.00	0.43	2.55	7.00	0.36
Participant No. 11	1.59	4.00	0.40	0.00	0.01	0.00	0.00	0.01	0.00	1.59	7.00	0.23
Participant No. 12	2.55	7.00	0.36	2.53	7.00	0.36	1.99	7.00	0.28	1.85	7.00	0.26
Participant No. 13	3.23	7.00	0.46	4.94	7.00	0.71	3.74	7.00	0.53	3.91	7.00	0.56
Participant No. 14	4.62	7.00	0.66	6.72	7.00	0.96	14.57	7.00	2.08	13.55	7.00	1.94
Participant No. 15	3.18	7.00	0.45	1.02	7.00	0.15	3.35	7.00	0.48	2.27	4.00	0.57
Participant No. 16	9.38	7.00	1.34	6.84	7.00	0.98	7.09	7.00	1.01	5.82	7.00	0.83
Participant No. 17	2.41	7.00	0.34	4.91	7.00	0.70	3.12	7.00	0.45	2.44	7.00	0.35
Participant No. 18	5.13	7.00	0.73	3.03	7.00	0.43	2.95	7.00	0.42	2.64	7.00	0.38
Participant No. 19	1.19	7.00	0.17	2.95	7.00	0.42	2.19	7.00	0.31	2.98	7.00	0.43
Participant No. 20	0.00	0.01	0.00	3.74	6.00	0.62	5.30	6.00	0.88	2.07	7.00	0.30
Participant No. 21	8.48	7.00	1.21	8.50	7.00	1.21	11.37	7.00	1.62	10.92	7.00	1.56
Participant No. 22	2.21	7.00	0.32	1.22	7.00	0.17	3.29	7.00	0.47	3.63	7.00	0.52
Participant No. 23	4.94	7.00	0.71	4.99	7.00	0.71	3.35	7.00	0.48	1.87	7.00	0.27
Participant No. 24	1.56	7.00	0.22	4.03	7.00	0.58	5.19	7.00	0.74	4.17	7.00	0.60
Participant No. 25	2.47	7.00	0.35	1.08	1.00	1.08	4.91	5.00	0.98	5.36	7.00	0.77
Participant No. 26	17.52	6.00	2.92	10.58	7.00	1.51	11.88	7.00	1.70	7.26	7.00	1.04
Participant No. 27	1.11	7.00	0.16	0.00	0.01	0.00	2.64	7.00	0.38	3.89	7.00	0.56
Participant No. 28	0.00	0.01	0.00	2.72	7.00	0.39	2.98	7.00	0.43	1.87	7.00	0.27
Participant No. 29	1.13	5.00	0.23	1.47	7.00	0.21	2.61	7.00	0.37	1.70	7.00	0.24
Participant No. 30	0.00	0.01	0.00	2.15	7.00	0.31	2.38	7.00	0.34	3.23	7.00	0.46
Participant No. 31	4.48	7.00	0.64	5.82	7.00	0.83	7.37	7.00	1.05	8.39	7.00	1.20
Participant No. 32	2.27	7.00	0.32	1.42	7.00	0.20	3.15	7.00	0.45	1.47	7.00	0.21
Participant No. 33	0.83	6.00	0.14	1.13	5.00	0.23	0.99	5.00	0.20	3.26	7.00	0.47
Participant No. 34	5.28	7.00	0.75	6.16	7.00	0.88	4.88	7.00	0.70	3.35	7.00	0.48
Participant No. 35	5.96	7.00	0.85	5.84	7.00	0.83	4.71	7.00	0.67	5.78	7.00	0.83
Participant No. 36	2.30	7.00	0.33	4.03	7.00	0.58	4.94	7.00	0.71	1.76	5.00	0.35
Participant No. 37	3.06	6.00	0.51	5.84	7.00	0.83	7.20	7.00	1.03	6.64	7.00	0.95
Participant No. 38	2.83	7.00	0.40	2.49	7.00	0.36	2.75	7.00	0.39	2.49	5.00	0.50
Participant No. 39	0.83	7.00	0.12	0.79	7.00	0.11	0.34	3.00	0.11	0.68	7.00	0.10
Averages			0.51			0.56			0.63			0.57

WASTE AUDIT RESULTS

Summer 1998

Total # Of Bags Generated Over Study Period	398.0
Average # Of Bags Generated/House/Week	2.0
Average Weight/Garbage Bag (Lbs)	10.4
Total Weight Of Compostables (Lbs)	1206.7
Total Weight Of Recyclables (Lbs)	798.4
Total Potential Recyclables:	
• Textiles	173.2
• Plastics	102.8
• Film	0.1
Total Non-Recyclable Waste (Lbs)	1,857.7
Total Waste Generated Over Study Period (Lbs)	4,138.9
Blue Box:	
• Total Recyclables (Lbs)	1,279.3
• Non-Recyclables (Lbs)	.79
Average Lbs Of Recyclables In Blue Box/ House/Week	6.4
Composition Of Garbage Stream: (not including potentials)	
• Compostables	31.2
• Recyclables	20.7
• Non-Recyclables	48.1
Composition Of Garbage Stream: (including potentials)	
• Compostables	29.2
• Recyclables	19.3
• Textiles	4.2
• Plastics	2.5
• Film	0
• Non Recyclables	44.8
% Recyclables Recovered	61.6

Composition Of Garbage Stream (%):
(not including potentials)

• Compostables	31.2
• Recyclables	20.7
• Non-Recyclables	48.1

Composition of Garbage Stream (%):
(including potentials)

• Compostables	29.2
• Recyclables	19.3
• Textiles	4.2
• Plastics	2.5
• Film	0.0
• Non-Recyclables	44.8

% Recyclables Recovered: 61.6

Total # Of Houses With Composters 22.0

***** NOTE: All calculations are based on 40 houses that use blue boxes and 10 houses that do not.**