'It is vital, when encountering a serious problem, not merely to try to solve the problem in itself but to confront and transform the processes that gave rise to the problem in the first place.'

David Harvey. Justice, Nature and the Geography of Difference



Putaruru Household Food Waste Collection Trial – The Data

Waste Management Institute of New Zealand Conference 2011, Rotorua

Presented by:

Duncan Wilson



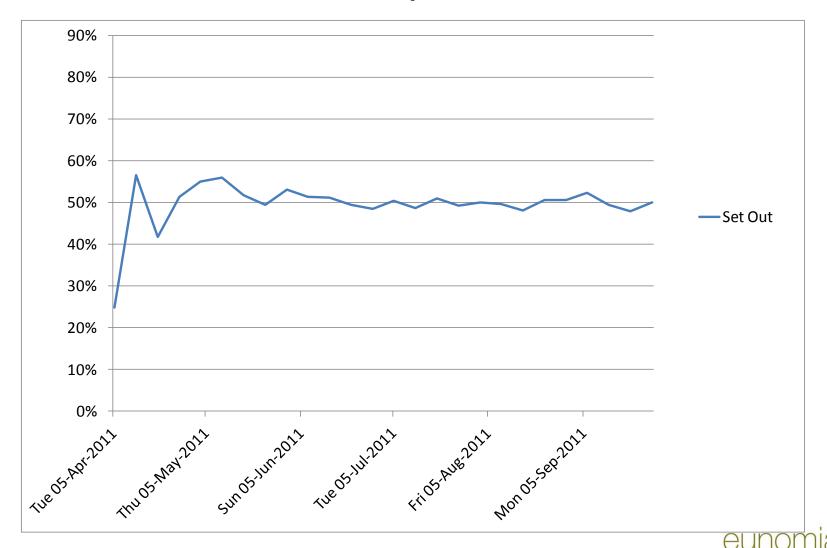
Introduction

Finally Some Actual Data...

- Originally presented at WasteMINZ 2010 but start of trial had been delayed – therefore had to make do with elaborate promises
- Trial been running for Six months
 - Not final report
 - But good interim numbers...



Set Out and Participation

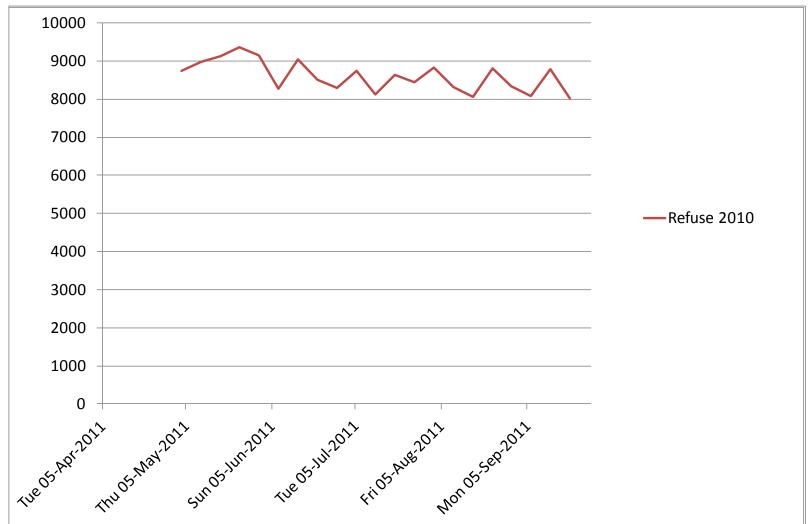


research & consulting

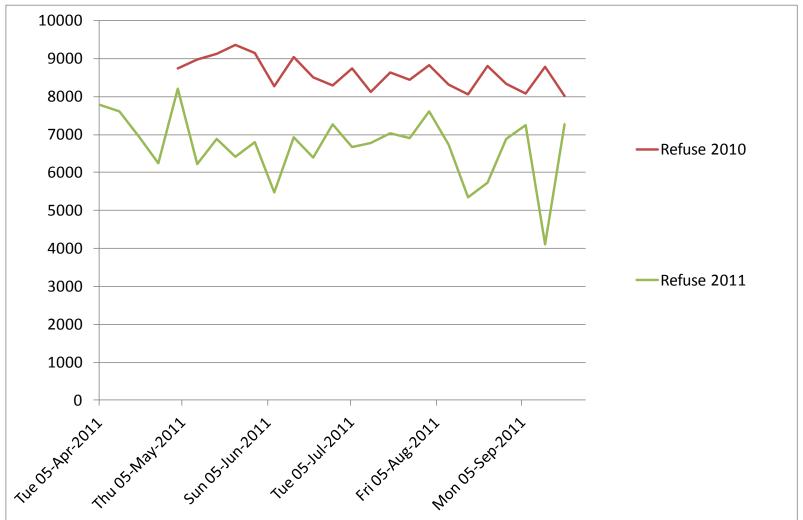
Set Out and Participation



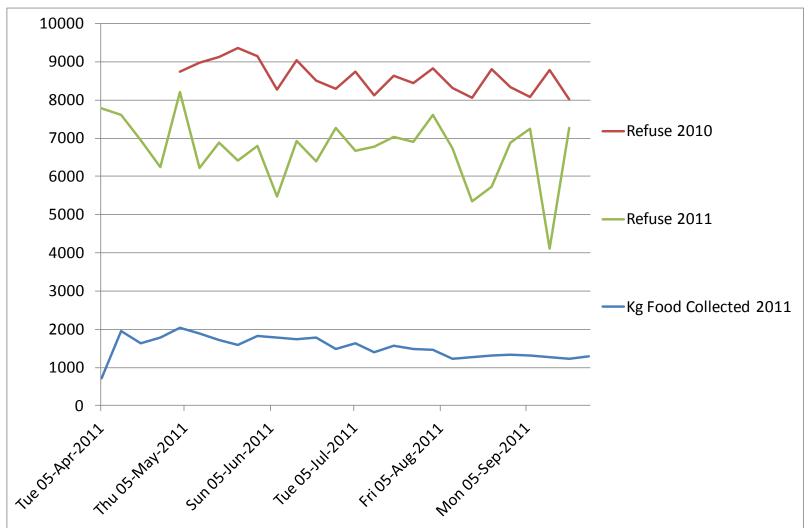
research & consulting



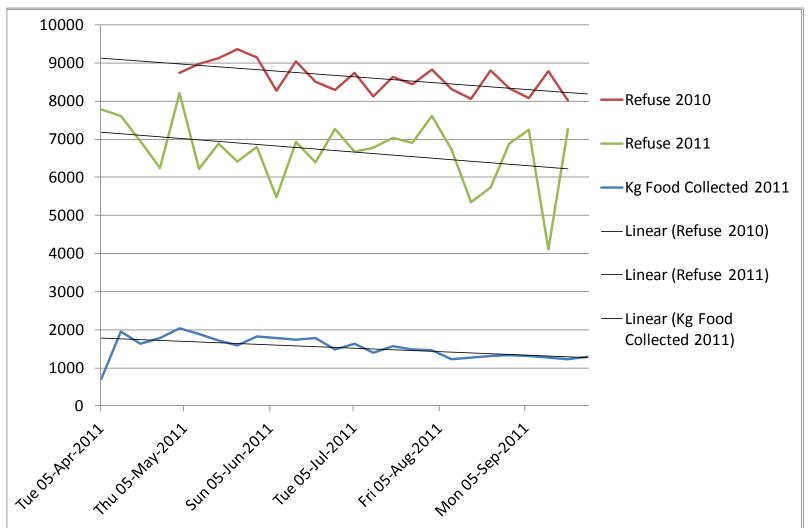














Summary

- 1569 kg food waste collected per week on average
 - 1767 first 3 months
 - 1363 last 3 months
- 2.19 kg per week per hh setting out (114kg/yr)
- 1.75 kg per week per participating hh (91kg/yr)
- 1.11 kg per week per hh served (58kg/yr)



Summary

 Refuse to disposal has gone down by more than the amount of food waste collected:

8604kg - average per week baseline

6657 - average per week during trial

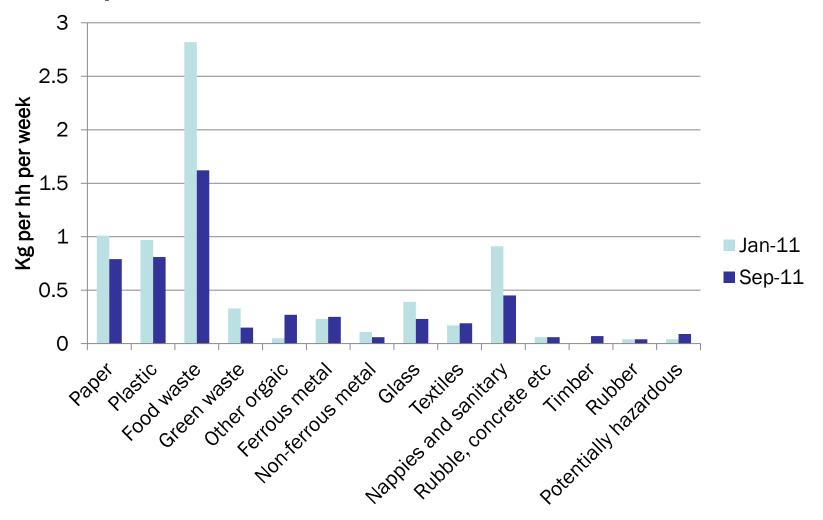
1569 - average food collected

- 379 - average amount 'missing'

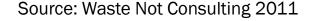
- Waste reduction effect of 4.4%....
- Overall reduction in collected hh waste of 22%



Composition Data



research & consulting



Composition Data

Food in the Residual

- Food waste reduced by 43%
 - Not as big a reduction as expected (expect at least equal to participation rate)
- Audited those setting out food waste and those not separately:
 - Not setting out = 2.13kg/hh
 - Setting out = 1.18kg/hh
- But small sample sizes. Most setting out had minimal food, but 4 big 'freezer clearouts' skewed data



Composition Data

Mean wt/ household set out	January 2011 Before food waste collection trial	September 2011 During food waste collection trial - all samples combined	Reduction since January 2011
Recyclable materials	•		
Paper - recyclable	0.83 kg	0.65 kg	- 22%
Corrugated cardboard	0.05 kg	0.03 kg	- 40%
Recyclable plastics ¹	0.89 kg	0.76 kg	- 15%
Steel cans	0.19 kg	0.16 kg	- 16%
Aluminium cans	0.04 kg	0.03 kg	- 25%
Glass bottles/jars	0.38 kg	0.21 kg	- 45%
Total recyclable	2.39 kg	1.83 kg	- 23%
Compostable materials	•	•	
Organic - kitchen waste	2.82 kg	1.62 kg	- 43%
Total compostable	2.82 kg	1.62 kg	- 43%
Total divertible	5.21 kg	3.45 kg	- 34%
Total refuse per set out	7.14 kg	5.07 kg	- 29%



Source: Waste Not Consulting 2011

Telephone Survey July 2011

- 268 households
- Randomly selected
- Surveyed to gain information on perceptions of the trial and areas for improvement
- Responses coded according to whether stated they are participating in trial or not

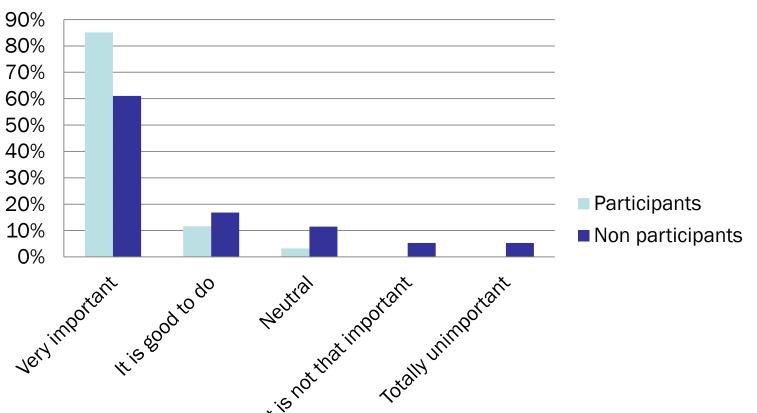


Telephone Survey July 2011

- 155 of 268 respondents say participating (58%)
- Reasons for participating:
 - It will help reduce my waste 56%
 - It will help the environment 63%
 - I will not have to put my rubbish out so often 25%
 - It will help save me money on my rubbish bags 19%
- Reasons for not participating:
 - Already home compost 42%
 - Do not have enough food waste 19%
 - Food waste goes to chickens/pigs etc 19%
 - Cant be bothered/waste of time 11%
 - Use an insinkerator 8%

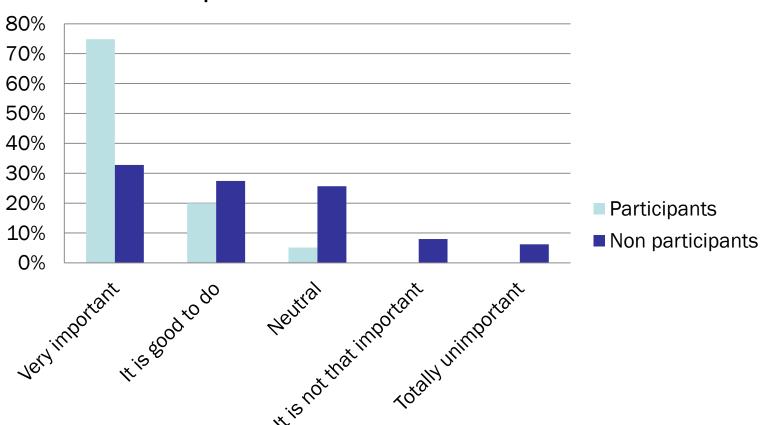


'How important is it that we reduce the amount of waste going to landfill?'



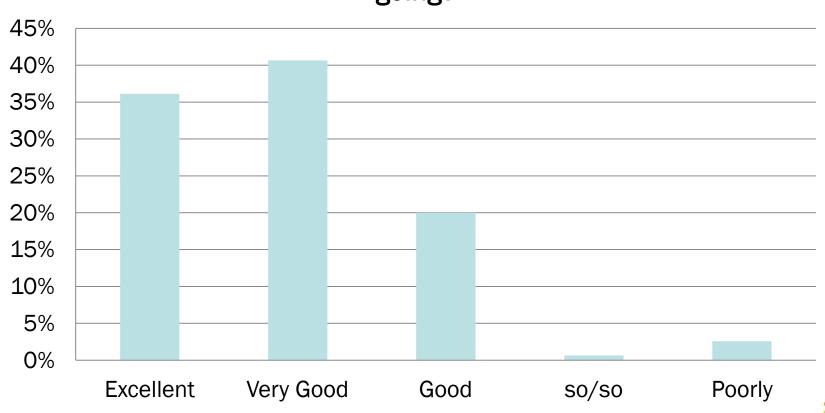


'How important is the Putaruru Food Waste Trial?'





How do you generally feel the food waste trial is going?





'Good to use. Love it'

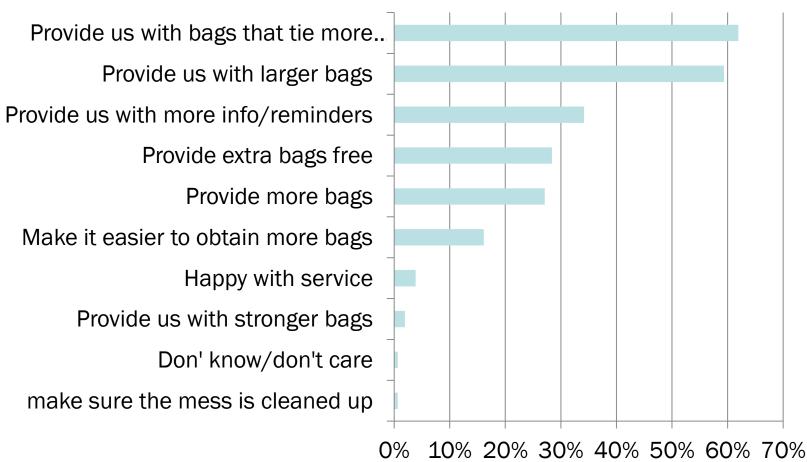
'I notice everyone is taking part.'

Saves a lot rubbish bin space, it's clean, tidy and quick. Very pleased.'

My rubbish doesn't smell any more'



What could we do to make the trial more effective?





Summary & Conclusions

Collecting Kitchen Food Waste

- Trial has so far matched expectations
- Waste reduction effect appears significant
- More food waste in residual than expected however but high margin of error
 - Full user-pays or fortnightly refuse collection would further improve capture
- Feedback has been positive



O thank you

Contact Details

Duncan Wilson
Eunomia Research & Consulting
duncan@eunomia-consulting.co.nz
Office: +64 9 376 1909
www.eunomia-consulting.co.nz

