



# THE HORROR OF 240 LITRE WHEELED BINS

WasteMINZ 2014

Presented by:  
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# Introduction

## Disclaimer

- It is not guns that kill people, it is people that kill people
- It's not bins that are the problem – just using big ones for household rubbish
- 240L wheeled bins have feelings too
- We love Sulo and all the bin suppliers

# What is so Horrible Anyway..?

## 15 years of observations

- Waste Not have been going through bins and bags of rubbish for a looonng time now
- A few things become obvious after a while
- Let's have a look...







02/10/2014 15:10



10/04/2014 12:55





























29/11/2013 09:04





10/04/2014 10:47





















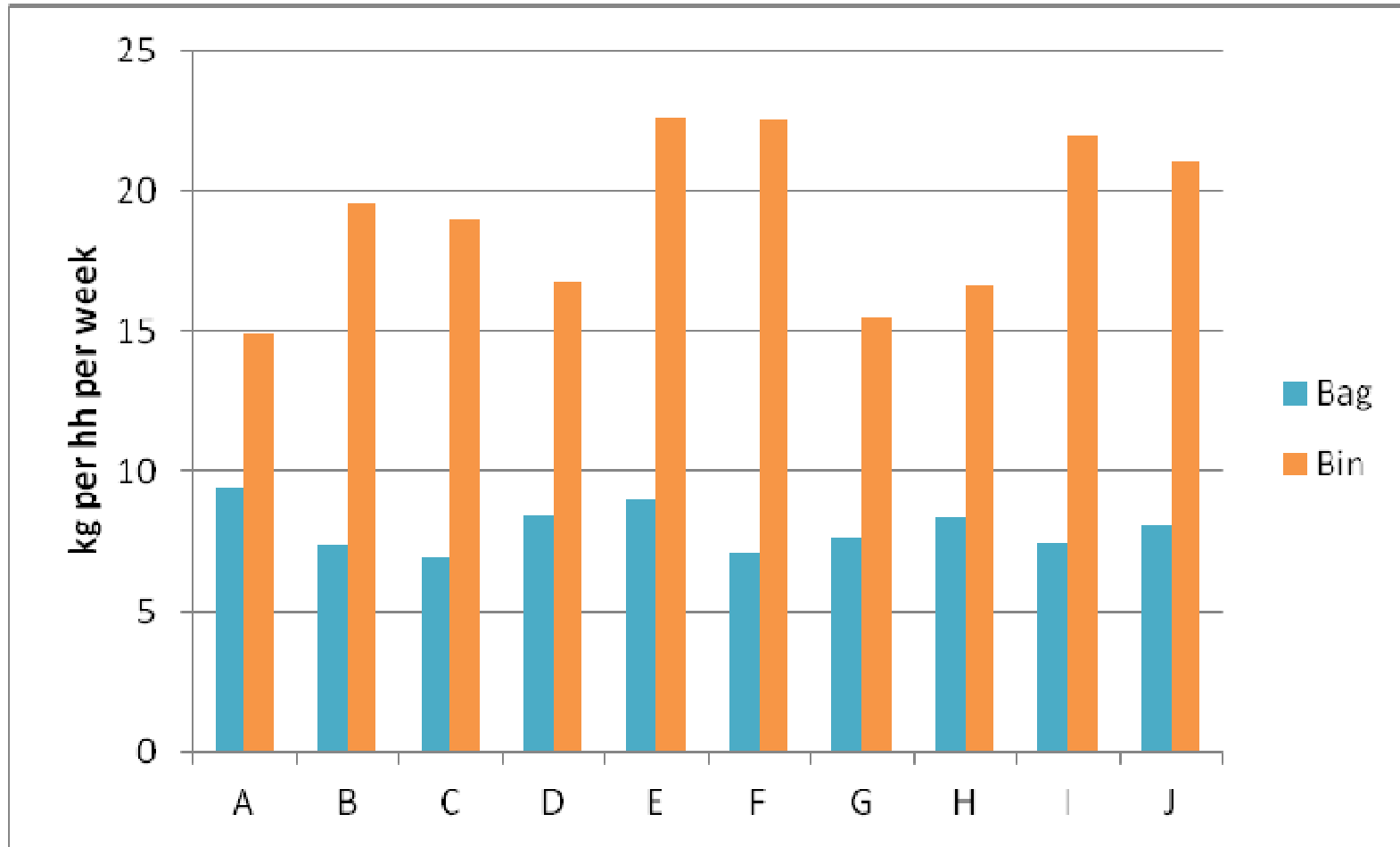


# The Numbers

## First the explanation

- Waste Not conducted many composition audits over the years for TAs
- A number gathered data on private and council wheeled bins, as well as the standard bag collection
- All bin and bag data collected at the same time – control for seasonal and weather impacts
- Essentially the same methodology used each time
- Data shows weight per household per set out
- We mostly don't have set out data

# Lovely Data: Household Weights



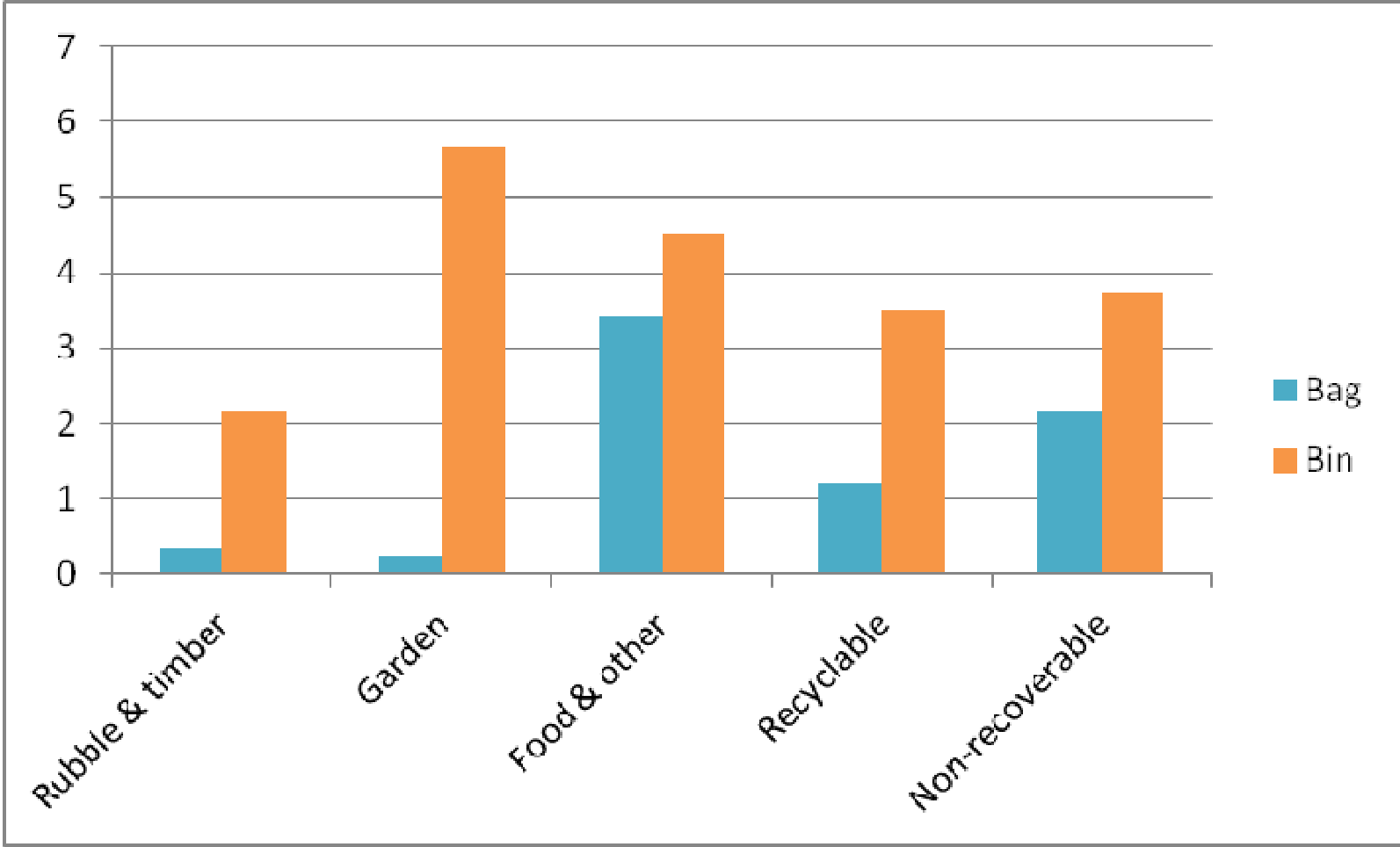


# The Numbers

## Likely Objections

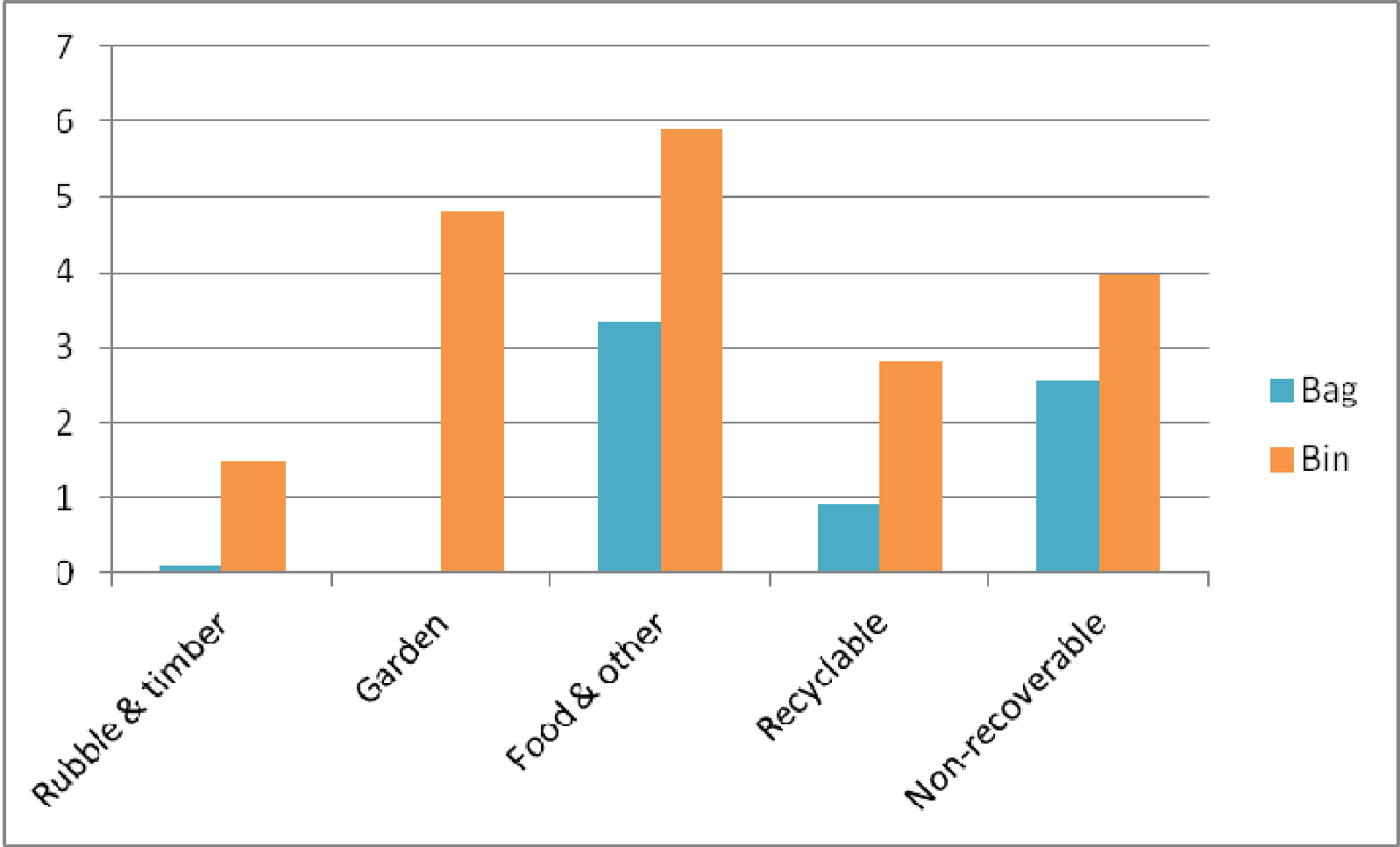
- Wheeled bin users come from larger households, therefore expect them to have more rubbish
- Wheeled bin users might put their bins out less often than bag users
- People generate the same amount of rubbish regardless of what size bin they have – it is just how it gets to the tip. i.e. bag users probably take more stuff to the transfer station...

# Lovely Data: Authority A

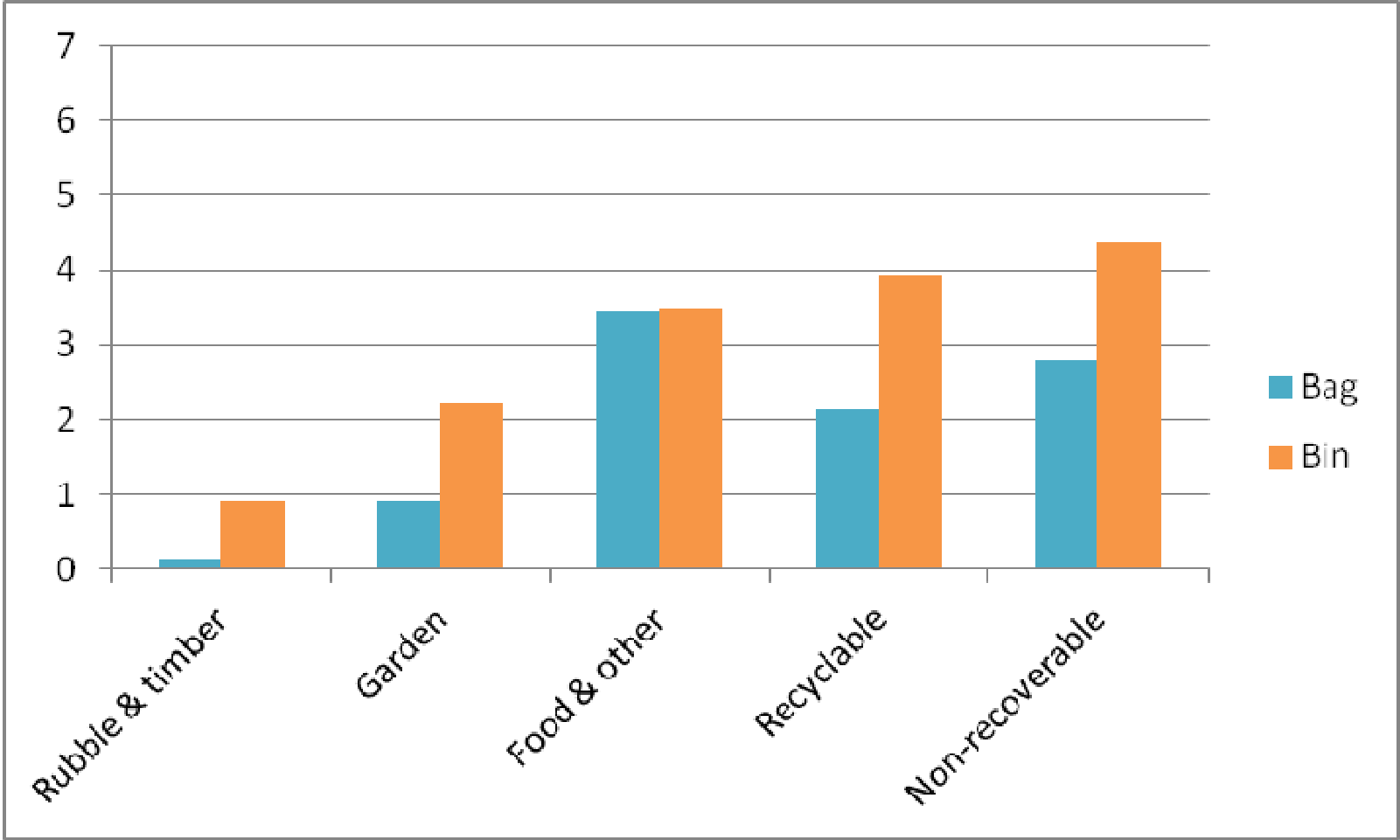




# Lovely Data: Authority B

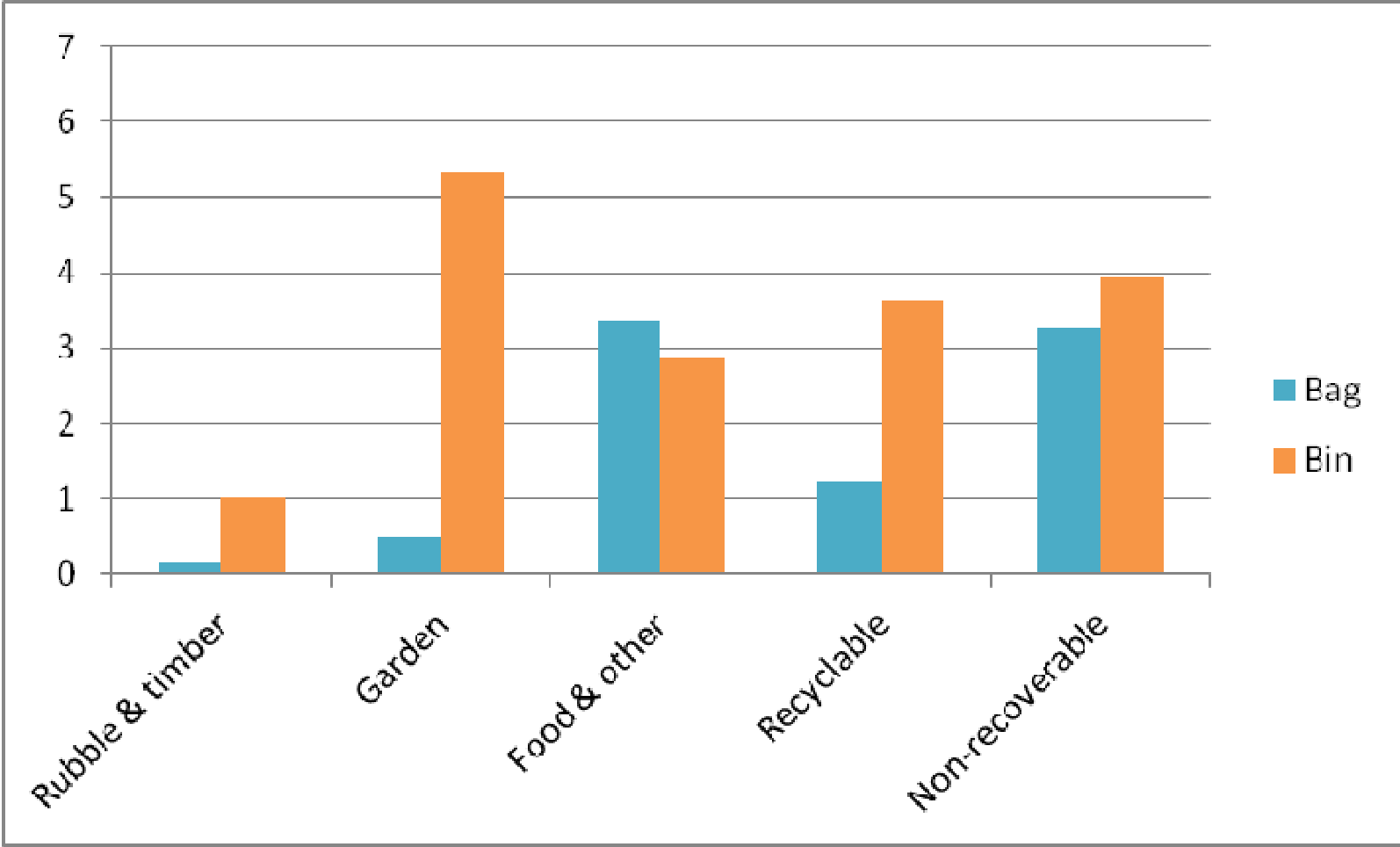


# Lovely Data: Authority C

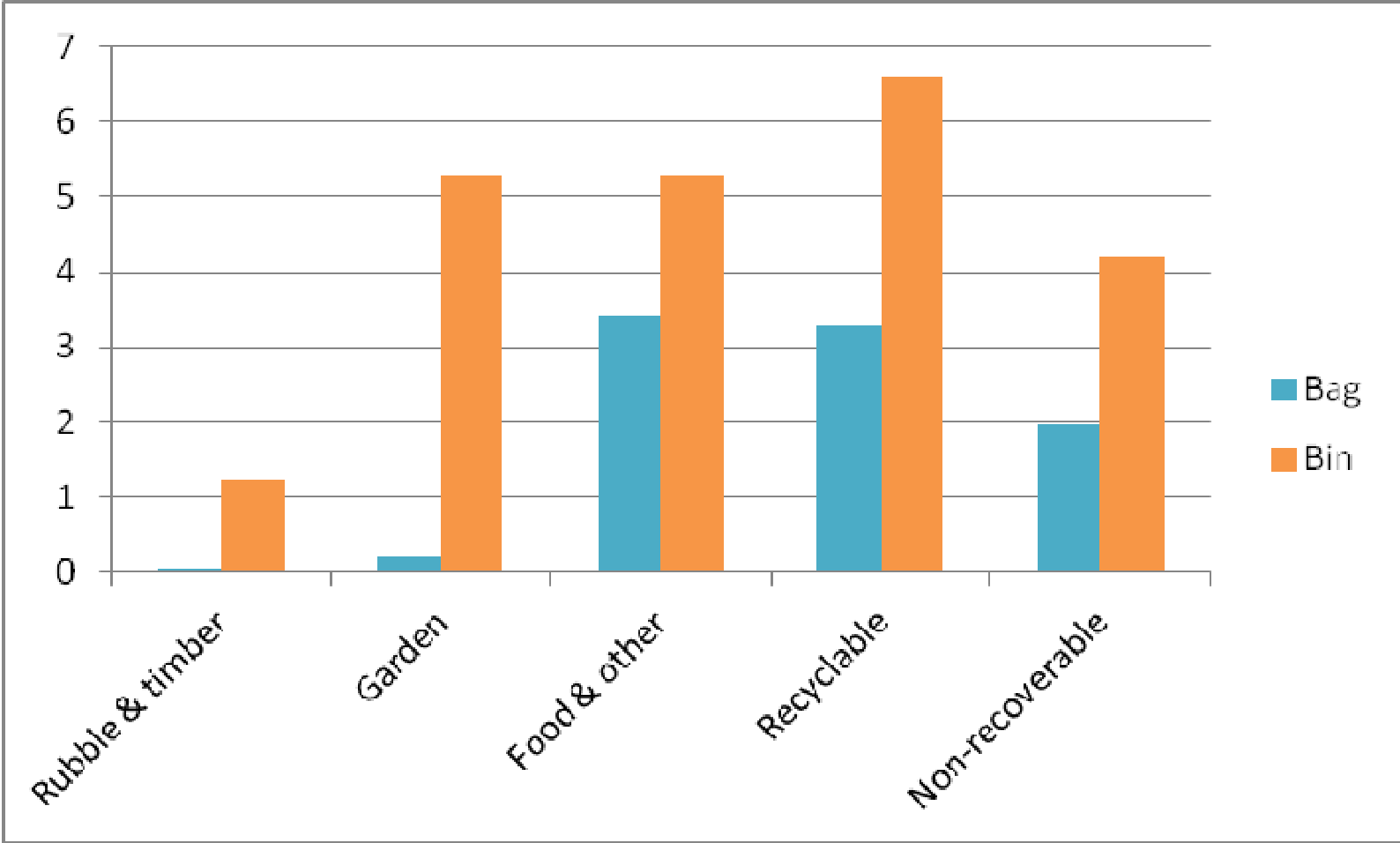




# Lovely Data: Authority D

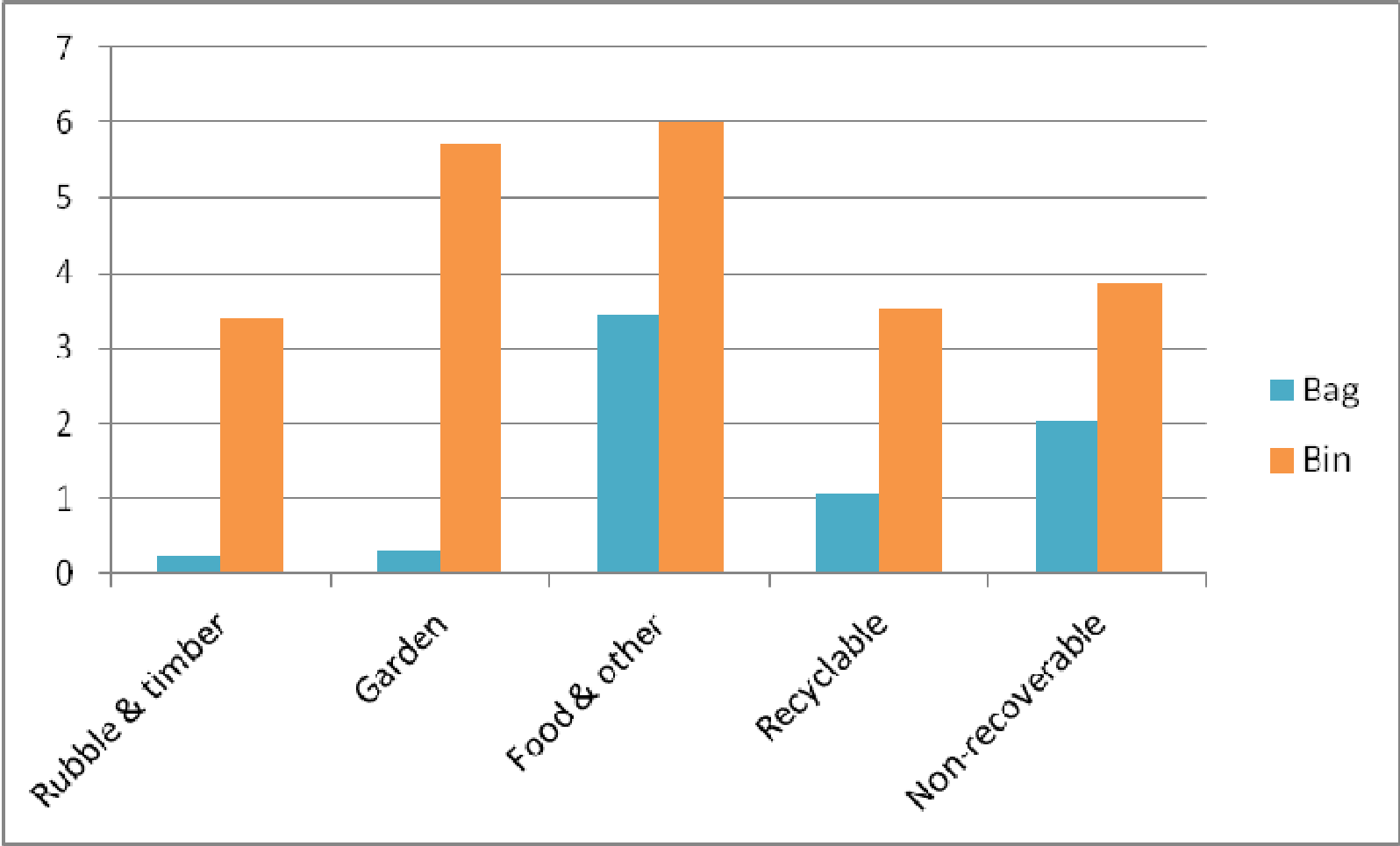


# Lovely Data: Authority E

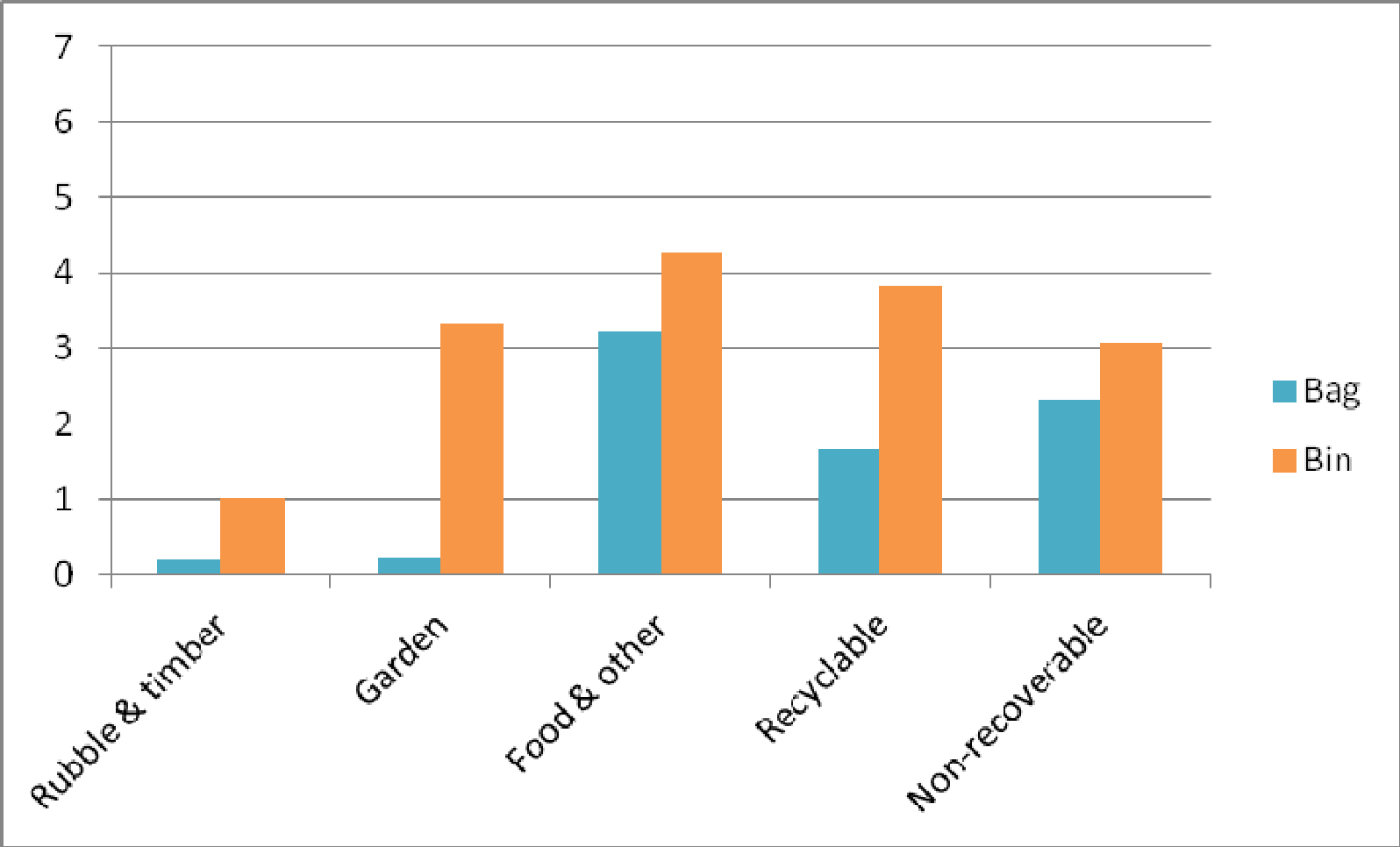




# Lovely Data: Authority F

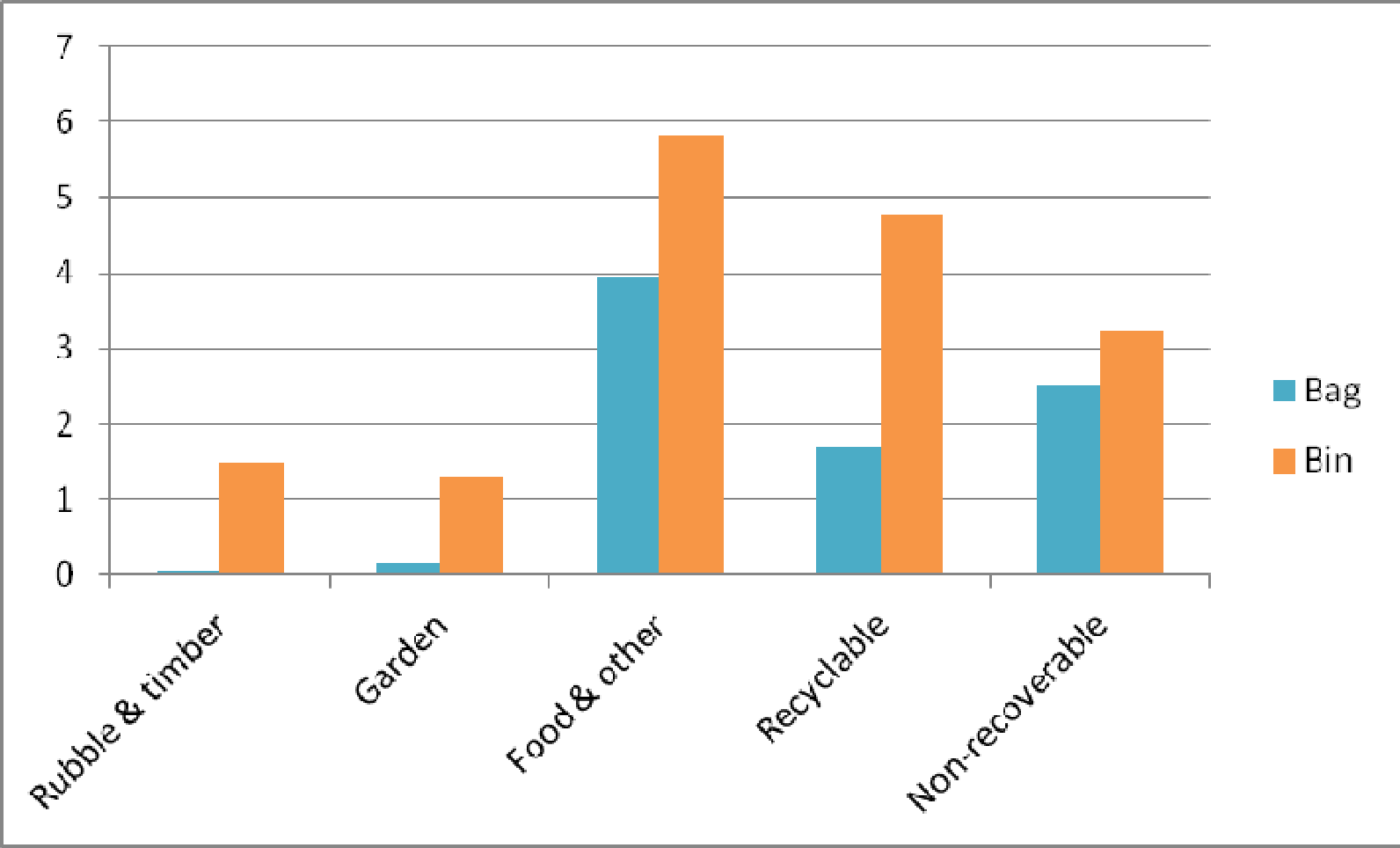


# Lovely Data: Authority G

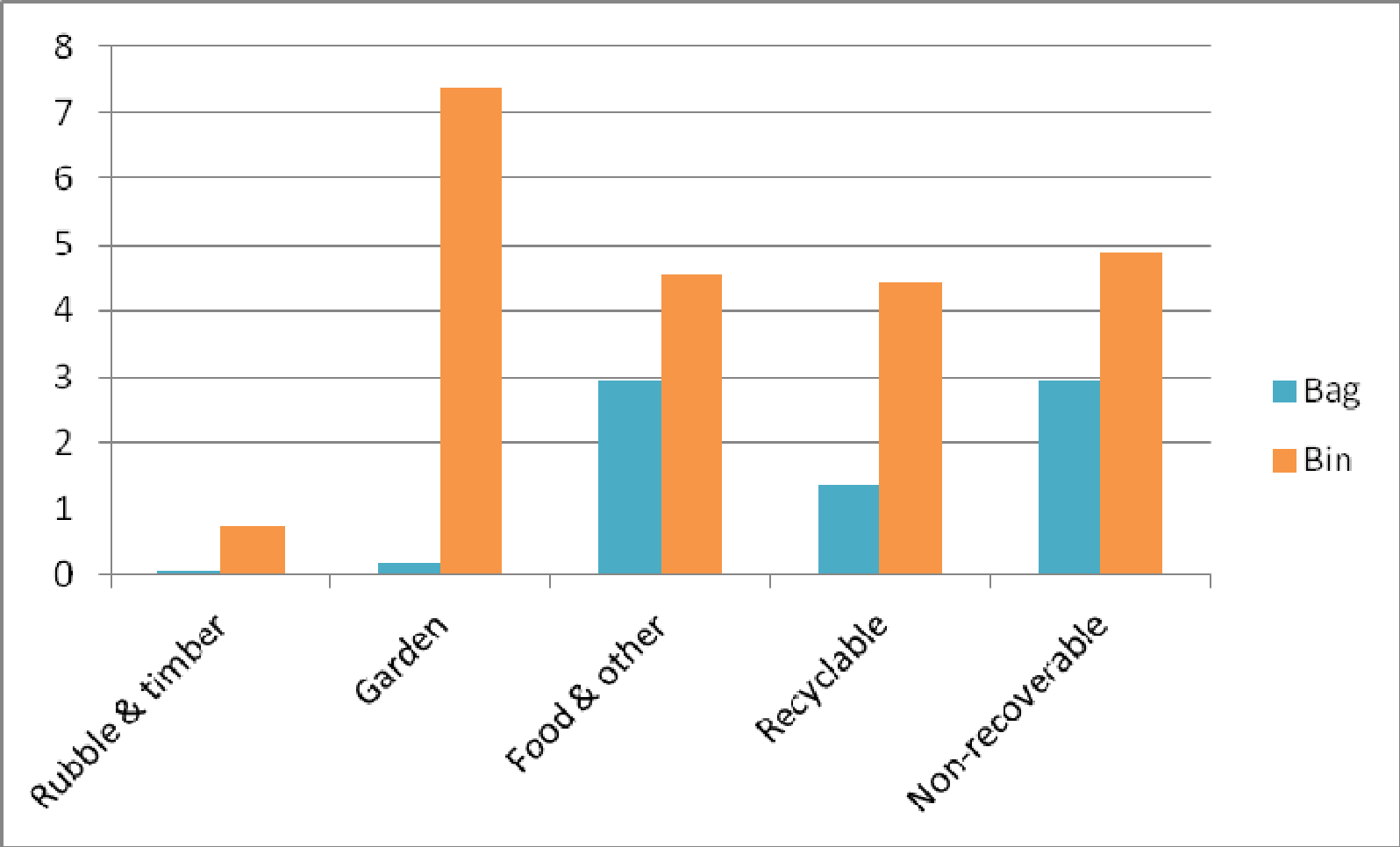




# Lovely Data: Authority H

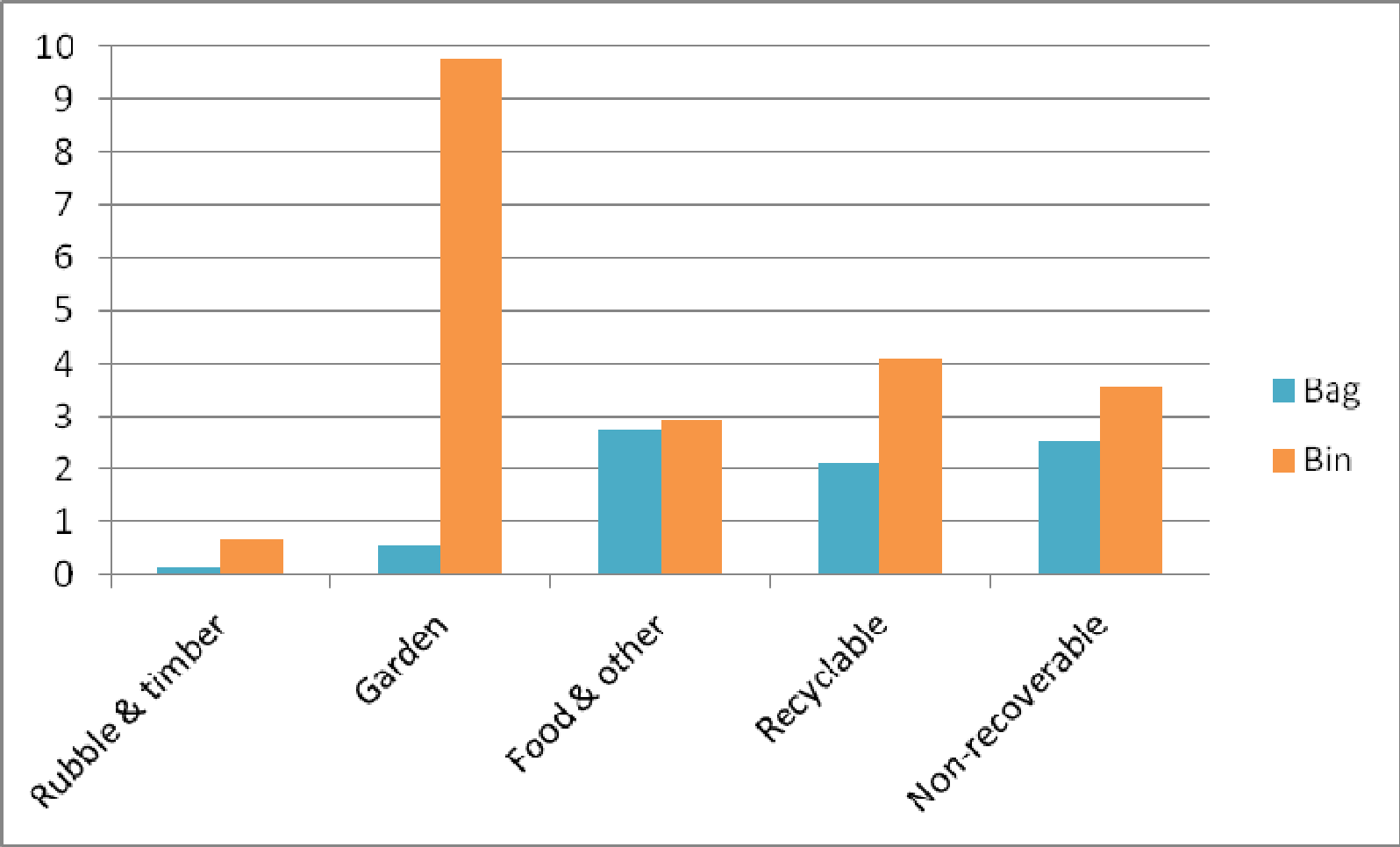


# Lovely Data: Authority I

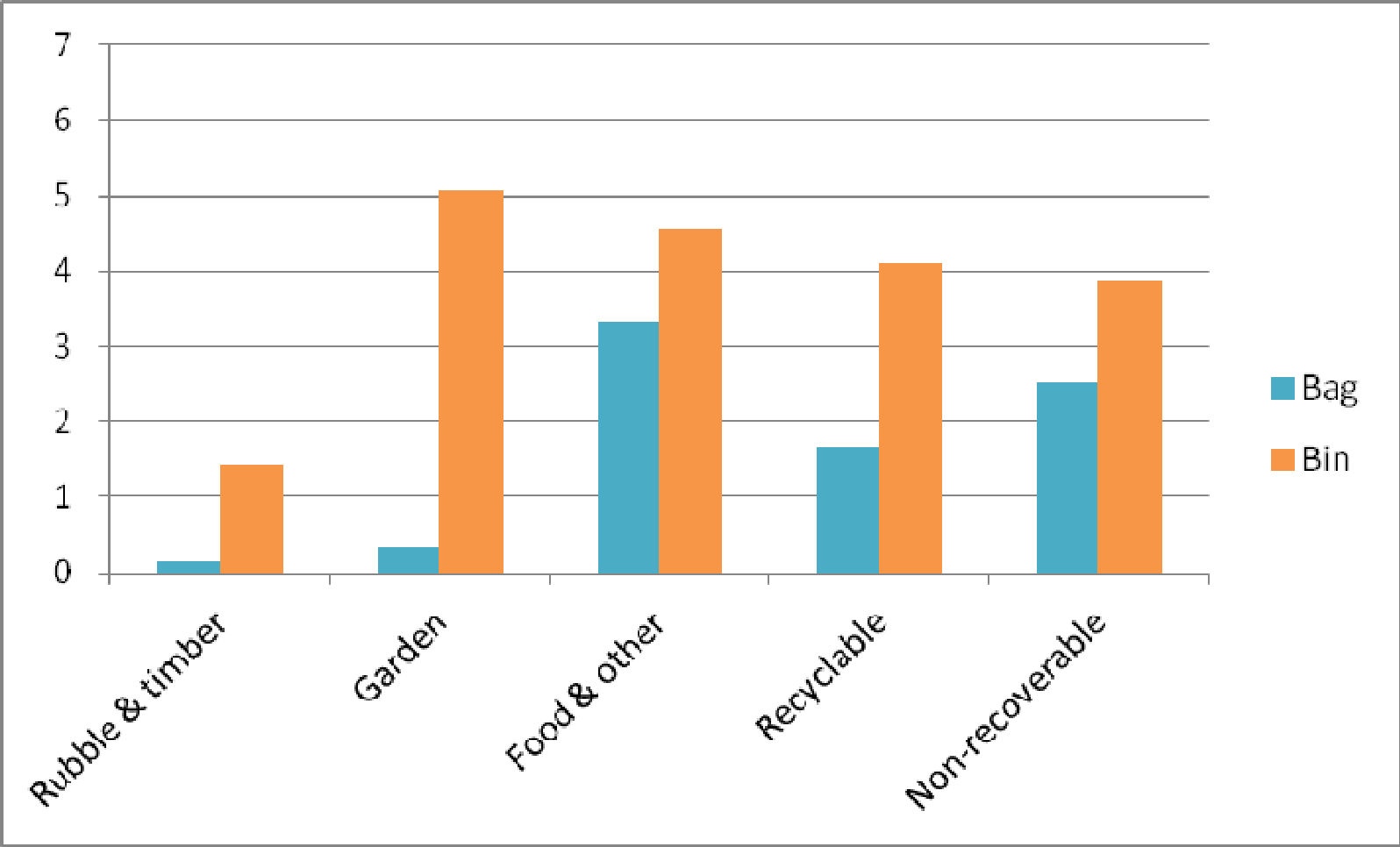




# Lovely Data: Authority J

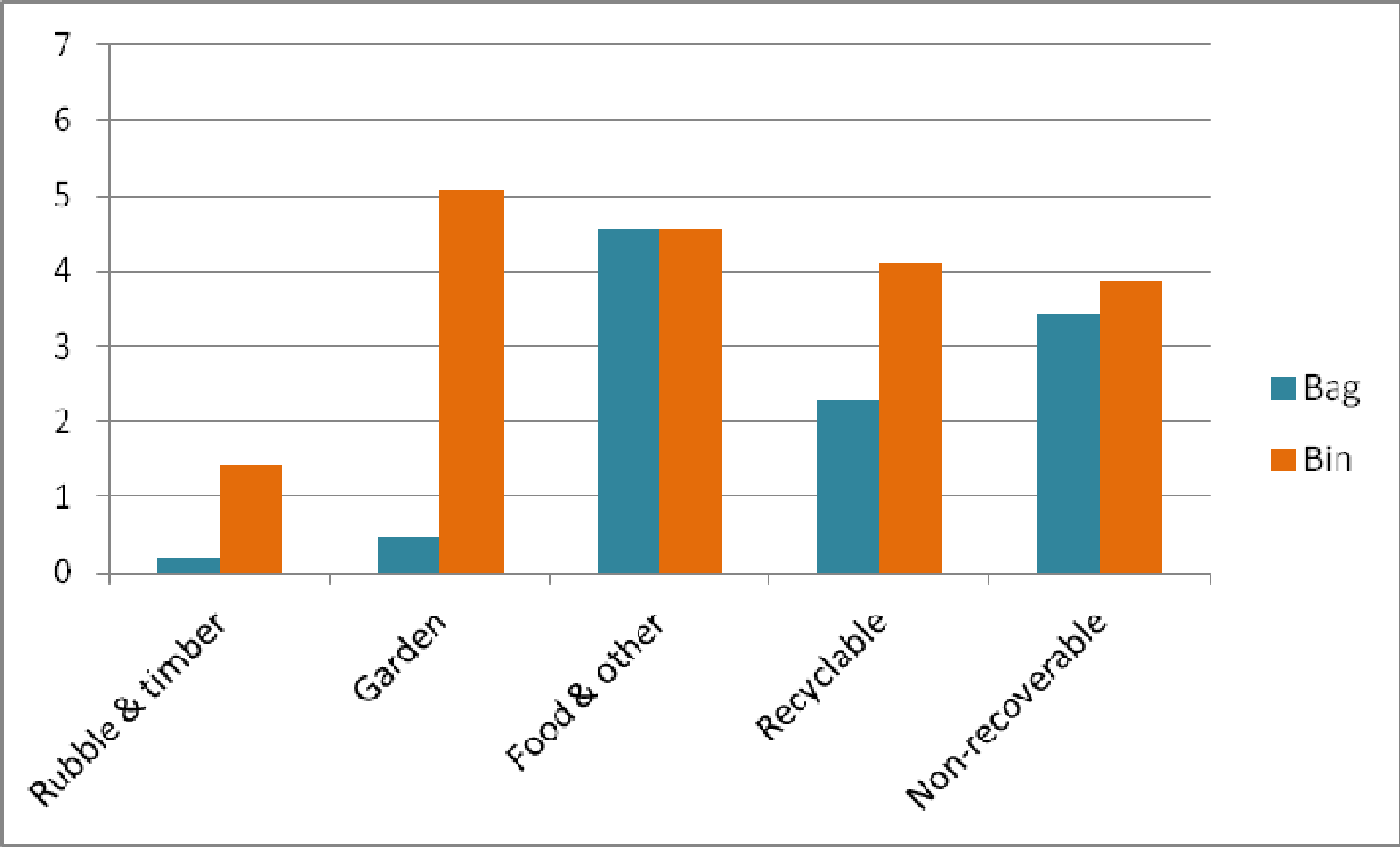


# Lovely Data: Average





# Lovely Data: Adjusted Average



# Auckland City 2001

## Downsizing

- The legacy Auckland City Council changed from 240L wheeled bins to 120L wheeled bins
- Waste Not was appointed to run the trial
- 321 hh over 6 streets in a cross-section of areas participated (not voluntary)
- Pre-trial audits and trial audits of refuse and recycling
- Everything else remained the same (frequency, recycling system)

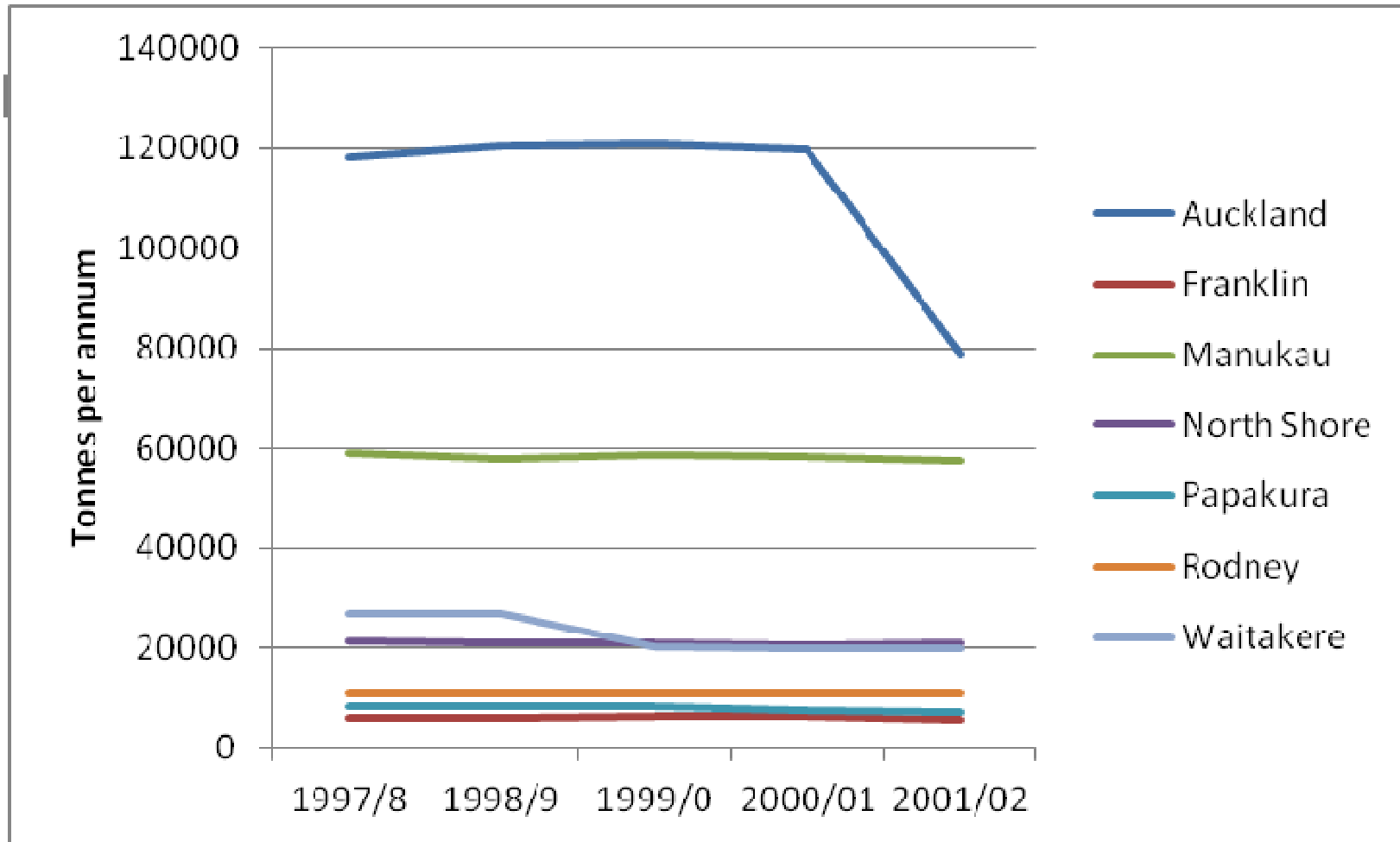


# Auckland City 2001

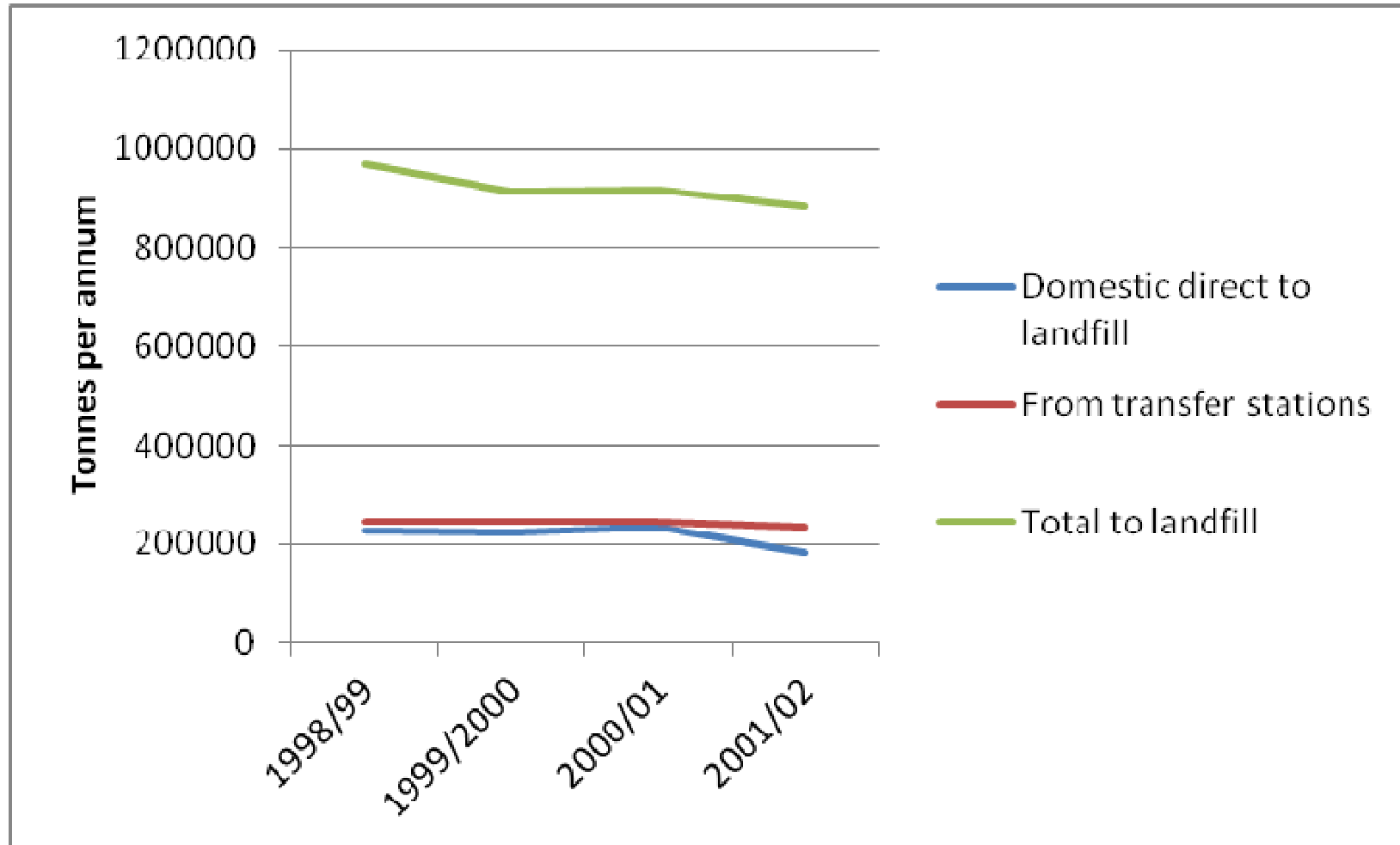
## Results

	Refuse			Recycling		
	Pre-Trial	Trial	% Change	Pre-Trial	Trial	% Change
Total set out weight (kg)	4902	2621	-47%	1032	1126	9%
number of set outs	262	274	5%	152	189	24%
average set out weight (kgs)	18.7	9.6	-49%	6.8	6.0	-12%
Number of dwellings	321	321	0%	321	321	0%
set out rate	81.6%	85.4%	5%	47%	59%	24%
weight per dwelling (kgs)	15.3	8.2	-47%	3.2	3.5	9%
All material (kgs)	18.5	11.7	-37%			

# Auckland City 2001



# Auckland City 2001



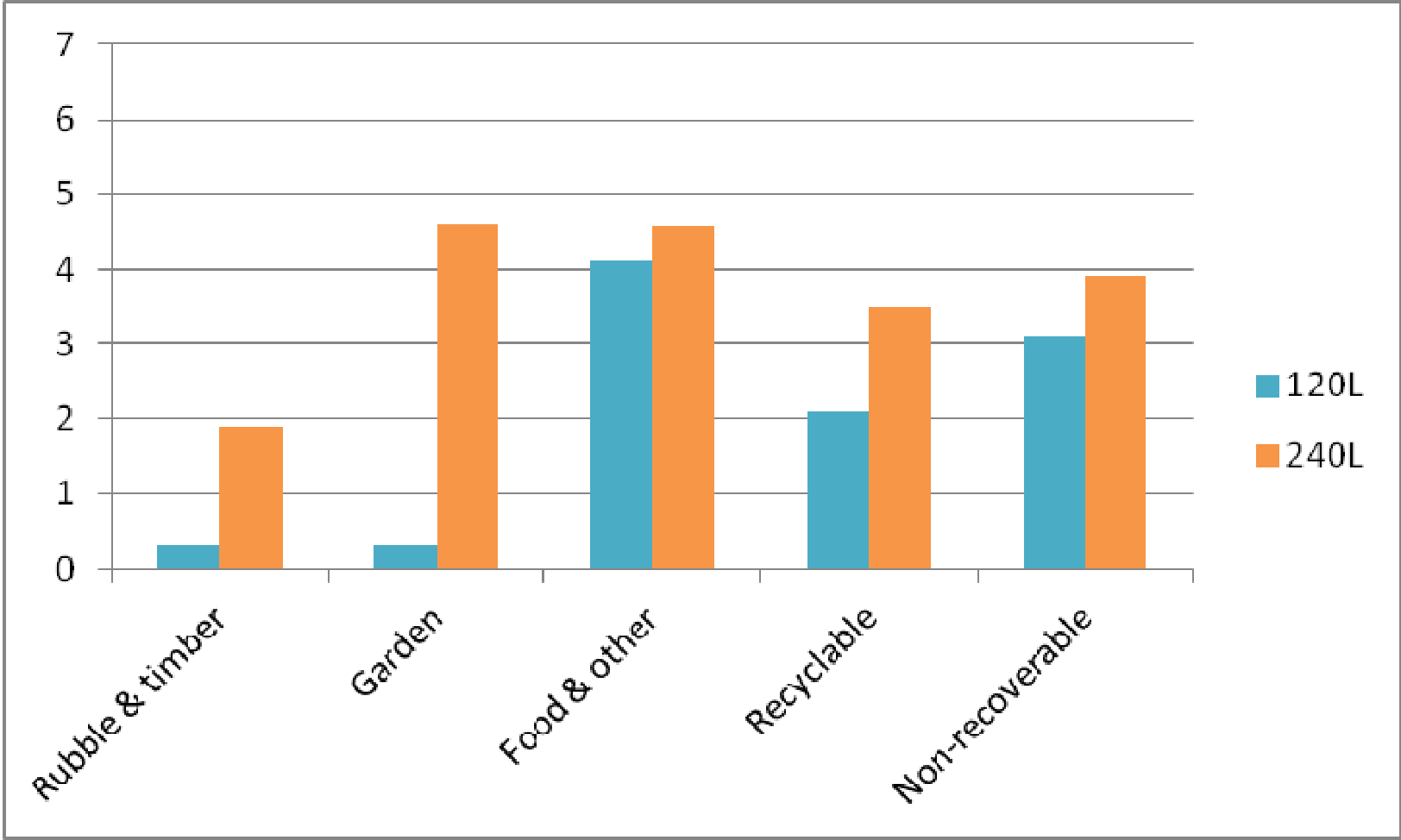


# Auckland City 2001

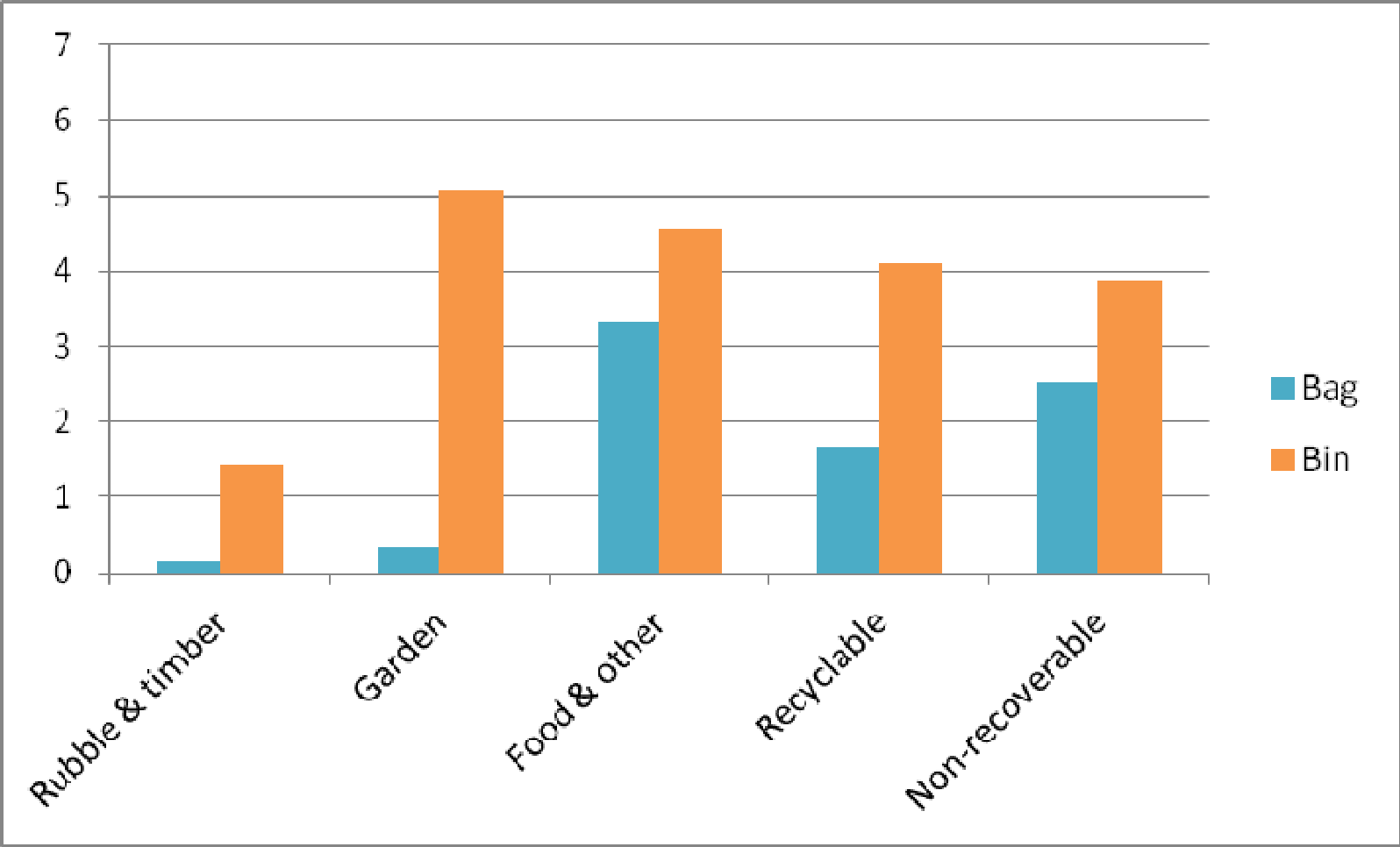
## Results

Refuse Composition				
	Pre-Trial	Trial	Change	% Change
Recyclable paper	2.4	1.6	-0.8	-33%
Recyclable containers	1.1	0.5	-0.6	-55%
Greenwaste	4.6	0.3	-4.3	-93%
Inorganic	1.9	0.3	-1.6	-84%
Residual	8.5	7.2	-1.3	-15%
<b>TOTAL</b>	<b>18.5</b>	<b>9.9</b>	<b>-8.6</b>	<b>-46%</b>

# Lovely Data: 2001 Trial



# Lovely Data: Average





# Conclusions

Big bins drive wasteful behaviour...

- Greenwaste
- Construction and demolition material
- Recyclables
- No household needs 240L per week of disposal capacity

# Conclusions

## What can be done?

- Councils:
  - Bylaw – (Taupo)
  - Such good recycling and waste service (organics?) people love to use it and realise they don't need big bins
- Private operators:
  - Offer and promote greenwaste collections!
  - Offer and promote skip services!
  - Make it a condition of the service that no-one puts greenwaste or C&D waste in their bin

IF YOU BUILD IT,  
THEY WILL COME.





# Questions?

# Contact Details

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 thank you