



# Multifa mily Bulky Waste Project

2022-2023

# Overview

This project was designed to provide regularly occurring bulky waste collection at multifamily communities--a service that is not usually available to multifamily residents--with the intent to generate data that will help inform and the design and implementation of an effective future program.

## Upcoming policies:

- 2030 Regional Waste Plan (Action 10.5): “Regularly occurring bulky waste collection services, with particular emphasis on lower-income households.”
- 5.15 of the Solid Waste Administrative Rule: The multifamily regional service standard must “Ensure provision of regularly-occurring bulky waste collection service by July 1, 2025.”

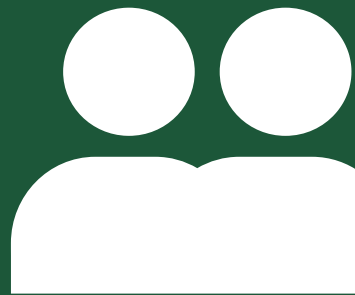


# Definitions



## Bulky Waste

- Items that are too large to fit in garbage bins. Examples include sofas, dressers, appliances, tires, etc.



## Participating Communities

- Communities where SSW staff was able to coordinate service with the property manager and conduct outreach to residents.



## Non -Participating Communities

- Communities where SSW staff could not get ahold of a property manager or they declined to participate. Communities either received stealth pickups — residents received no outreach but their collector would pick up any bulky waste on site — or were removed from their collectors' bulky waste route.



Oct-Nov '22

Feb-Jun '23

June '23

Oct-Dec '23

40 Affordable  
Housing  
Communities

41 Affordable  
Housing  
Communities

10 Communities in 2+  
EFA Zones

31 Communities

6 Collectors

6 Collectors

5 Collectors

2 Collectors

Loose Items and  
Drop Boxes

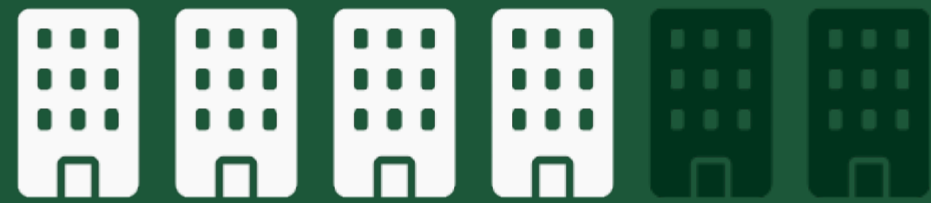
Loose Items and  
Drop Boxes

Loose Items and  
Drop Boxes

Loose Items only

# Terms 1 - 4

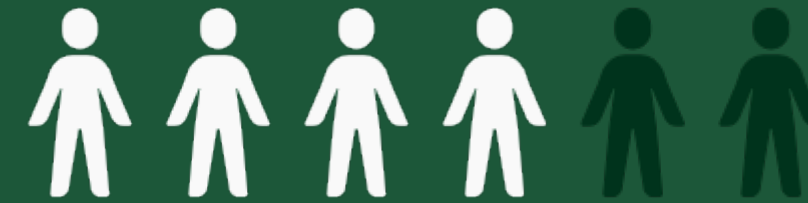
Unique Communities



83 Invited

54 Participating

Unique Units



7,502 Invited

4,819 Participating

# Methods

## Loose Item Collection

- Intended for communities <100 units
- Typically in 1 parking spot
- Collected weekly (e.g. Fridays), residents told to put items out on the day before (e.g. Thursdays)



# Methods



## Drop Box Disposal

- Intended for communities >100 units
- 1-5 parking spots reserved for dumpster
- Emptied (and returned) when filled
  - Disposal requested from community's regular garbage/recycling driver or property manager/SSW staff



# Process

## OPPORTUNITY TO DISPOSE OF LARGE UNWANTED HOUSEHOLD ITEMS AT IKOI SO TERRACE!

Do you have large household items you no longer want and are unable to donate (e.g. an old sofa)?



On **MONDAYS**, from **FEBRUARY 6<sup>TH</sup>** to **APRIL 24<sup>TH</sup>**, place large, unwanted items, in the corner parking spot across from the Loading Zone.



**✓ Accepted Items**  
Furniture  
Mattresses  
TVs/Electronics

**✗ Items NOT Accepted**  
Hazardous waste (oil, batteries, etc.)  
Garbage that fits in the garbage bins

Questions? Please contact the office at (503) 659-7019.



1: Determine  
Communities & Method



2: Coordinate Details  
with Collectors and PMs



3: Resident Outreach



4: Tracking and  
Addressing Issues



5: Resident Outreach



6: Survey PMs &  
Residents (Term 2 & 3)





# Data Collection

## Loose Items



- Data acquired from ClackCo tracking sheets
- Item count
- Item category (e.g. furniture, mattresses, tires, etc.)
- Item size
- Item weight (based on estimates)
- Time
  - On site (Terms 1-3)
  - Route (Term 4)

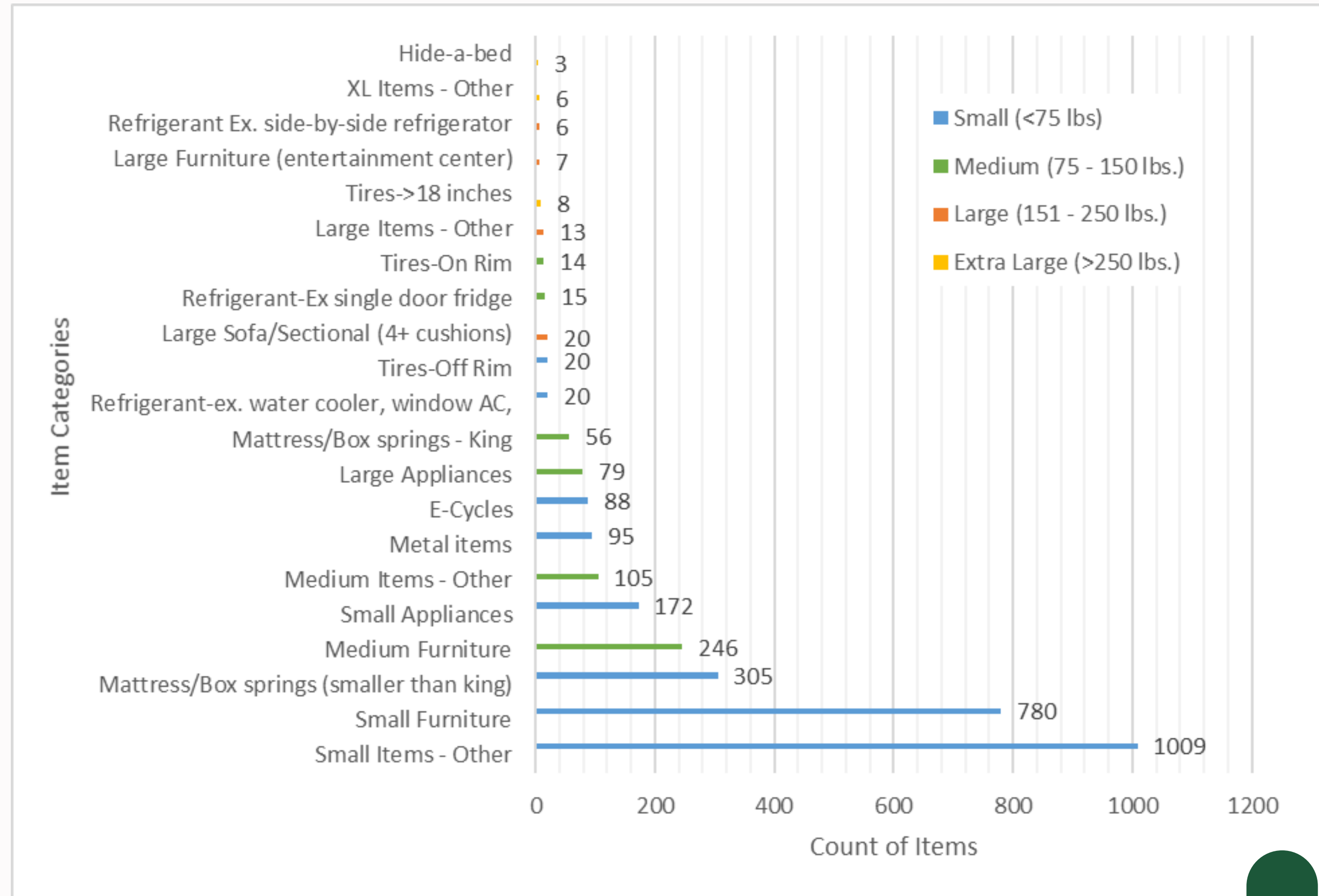
- Data acquired from disposal slips
- Disposal weight
- Volume (based on drop box size)
- Duration between hauls

## Drop Box

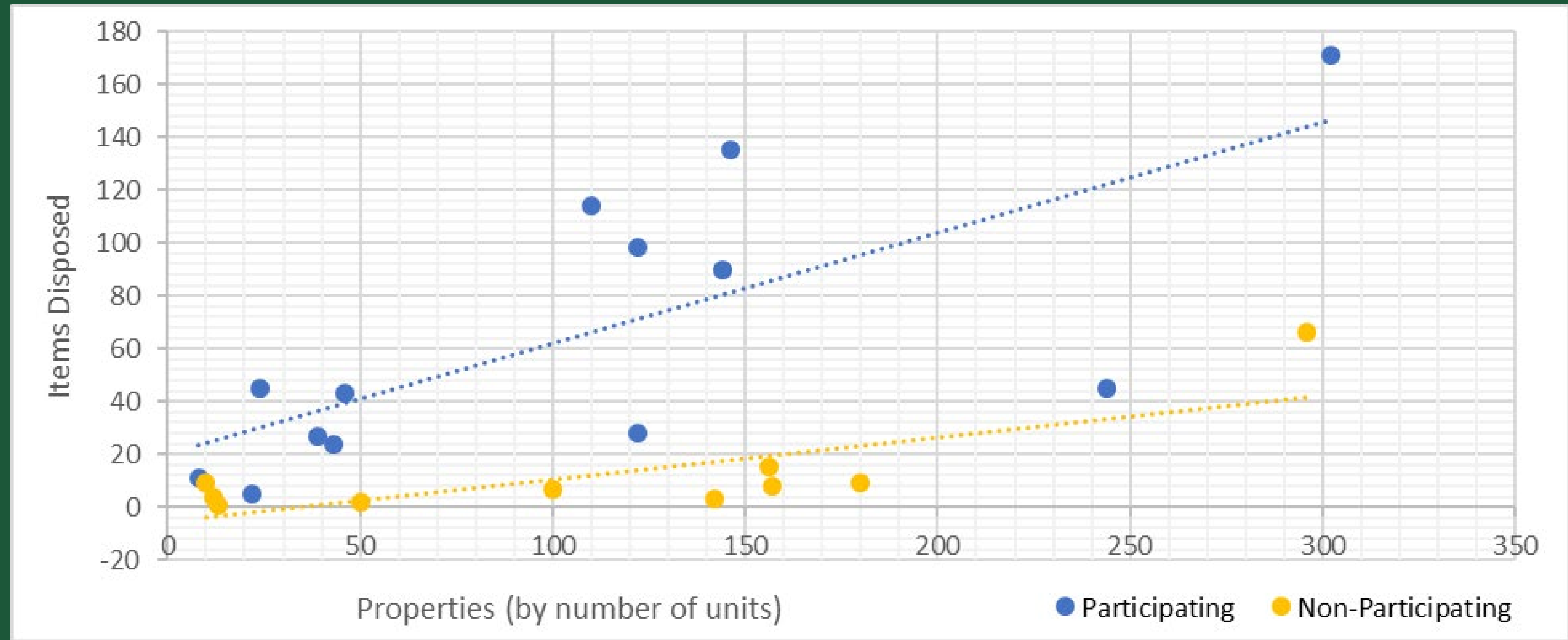


# Data Results

- **Small (<75 lbs.)**
  - 2,492 Items
  - 81.2%
- **Medium (75 - 150 lbs.)**
  - 515 Items
  - 16.8%
- **Large (151 - 250 lbs.)**
  - 46 Items
  - 1.5%
- **Extra Large (>250 lbs.)**
  - 17 Items
  - 0.6%



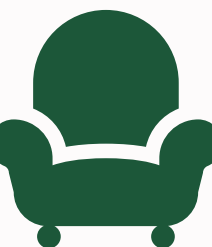
# Item Counts by Property Term 4 (13 weeks)



<50 units: ~20 - 40 Items

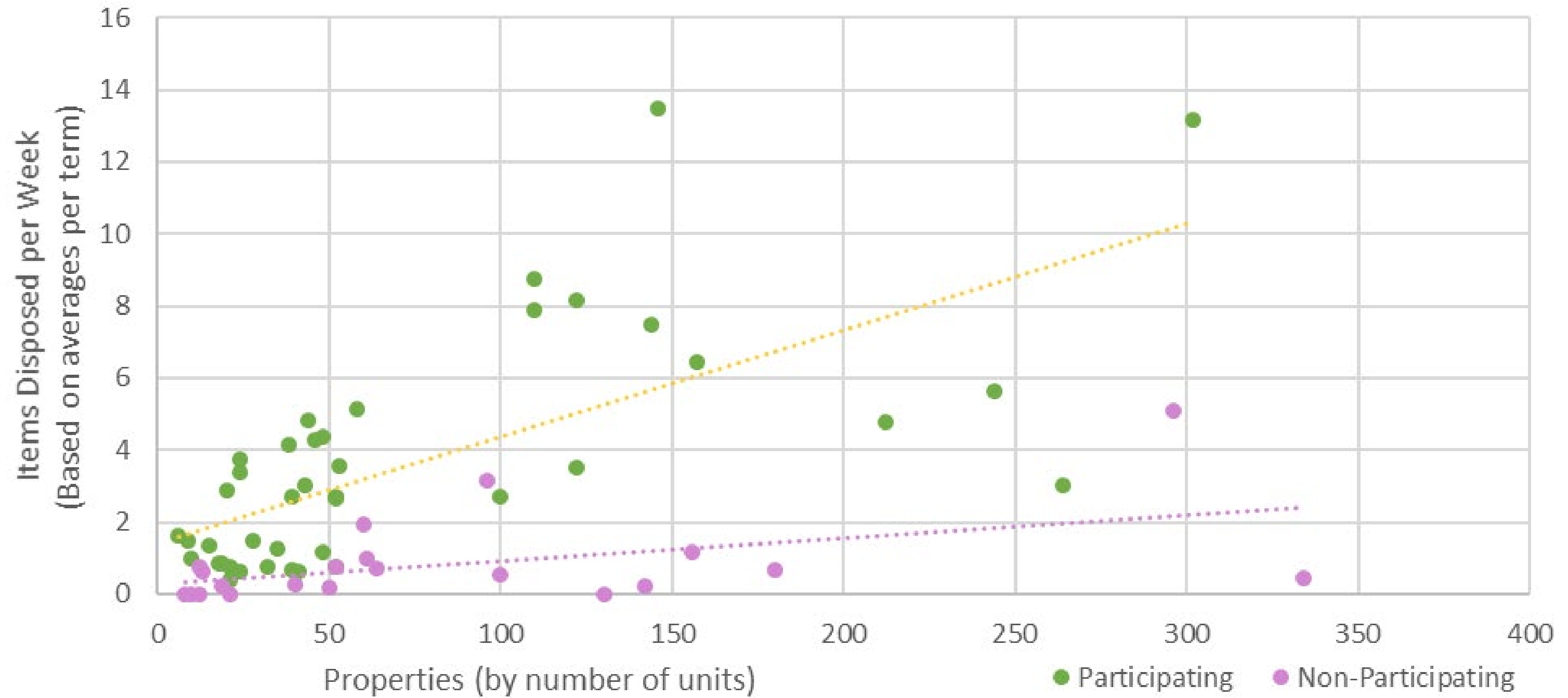
100 - 150 units: ~60 - 80 items

$$y = 0.42x + 20$$



# Weekly Disposal per Property

## Terms 1-4



<50 units: ~2 - 3 items

100 - 150: ~4 - 5



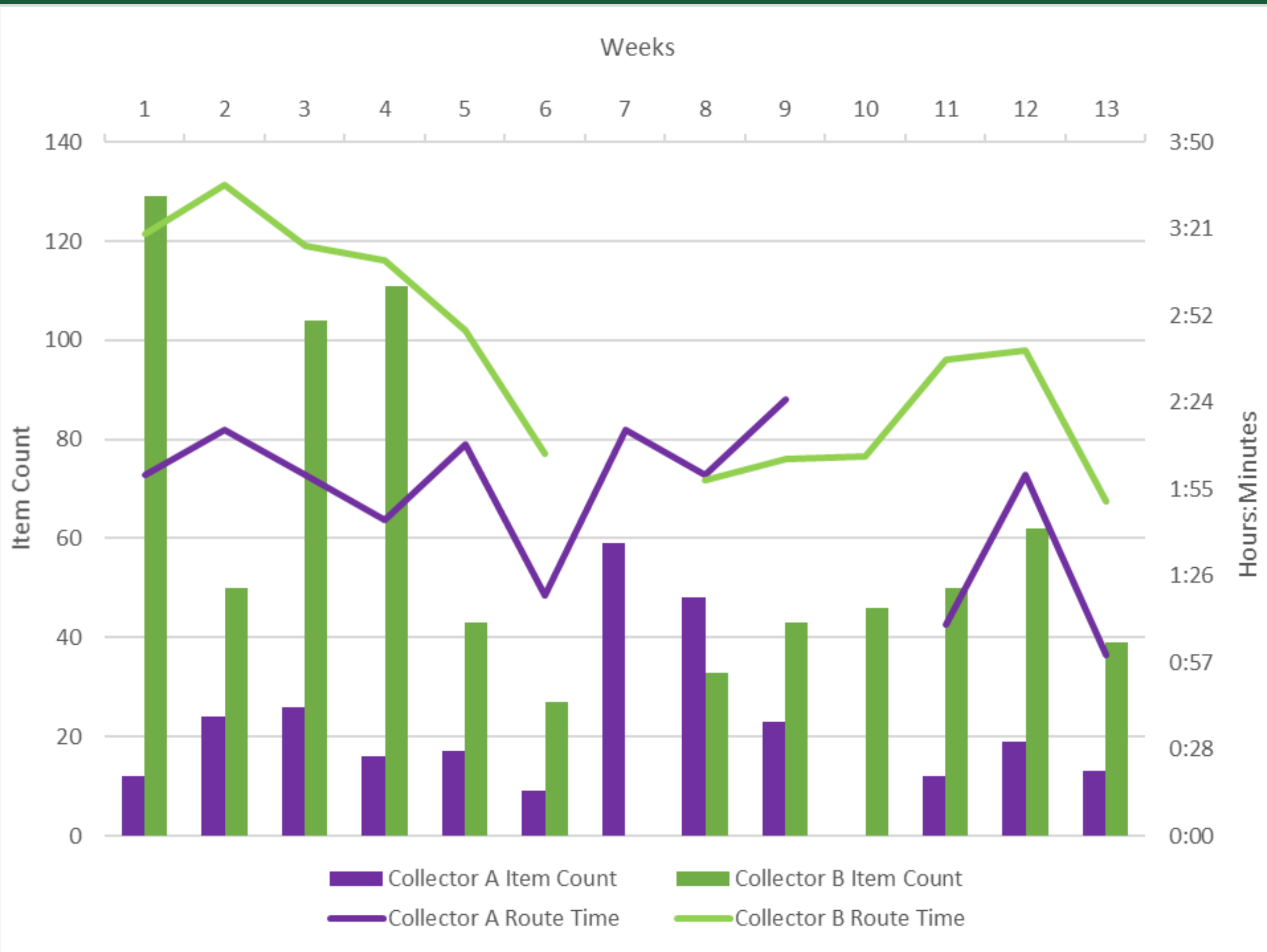
Items Disposed per Unit				
	Min	Median	Max	Average
Term 1, 12 Weeks (participating communities)	0.2	0.6	2	0.8
Term 1, 12 Weeks (non-participating communities)	0.1	0.2	7.3	0.2
Term 4, 13 weeks (participating communities)	0.2	0.7	0.9	0.7
Term 4, 13 weeks (non-participating communities)	0	0	1	0.2

## Item Disposal Terms 1 & 4

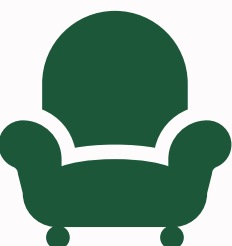
- Participating communities
  - 0.75 items per unit
  - 3 items per 4 units
  
- Non-participating communities
  - 0.2 items per unit
  - 1 item per 5 units



# Item Counts & Route Time Term 4

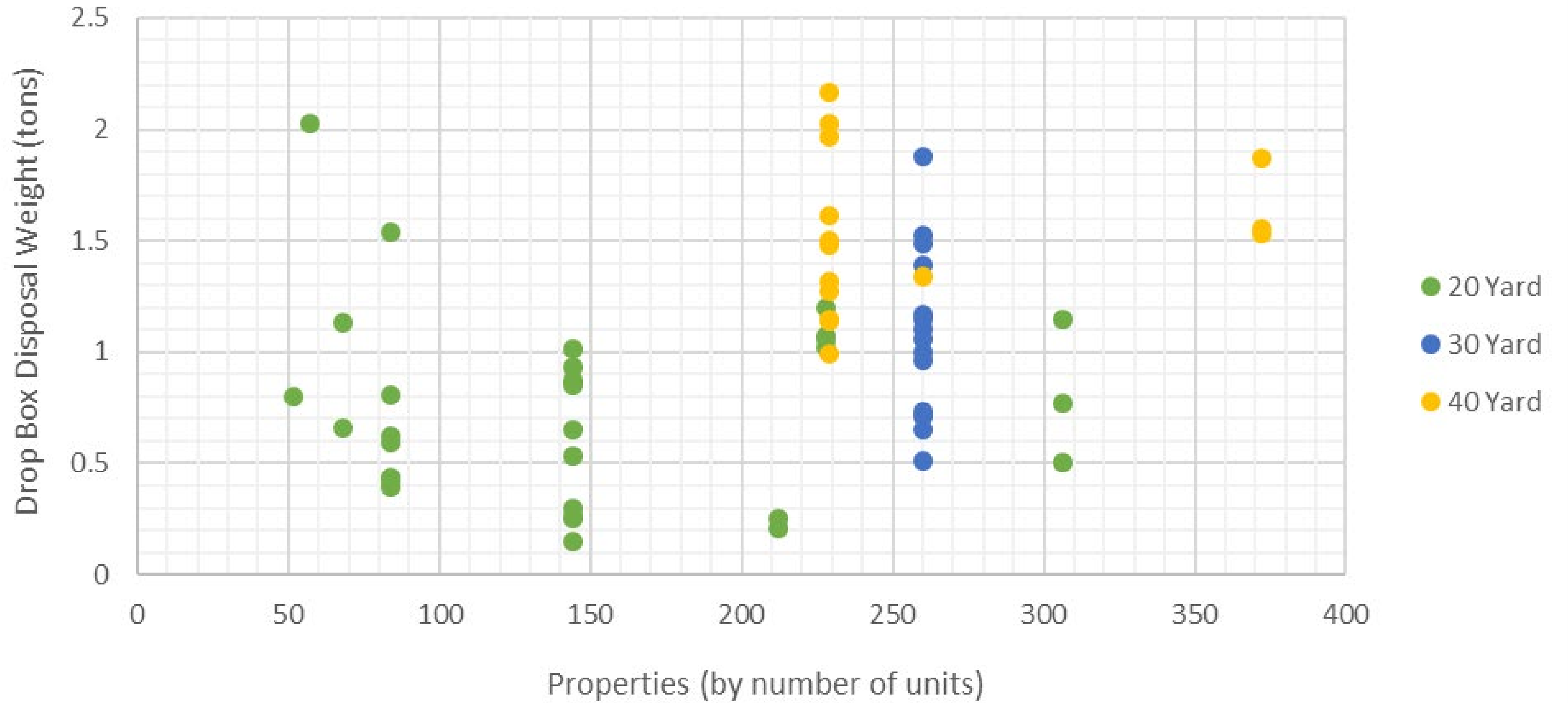


- Item counts influence route time, to an extent
- Differences in route time between collectors
- Different 'peaks' of disposal between collectors



# Drop Box Disposal Weights

## Terms 1 - 4




# Drop Box Disposal Terms 1-4

- Positive relationship between drop box size and:
  - Disposal volume
  - Days between hauls

Size (cubic yards)	Total Weight (tons)	Total Hauls	Average Weight Per Tip (tons)	Average days Between Hauls
10	0.47	1	0.47	7
20	23.74	33	0.74	13.4
30	15.32	14	1.09	13.5
40	22.92	15	1.53	16.7







	Weight (tons)
Loose Items	82.9
Drop Boxes	62.5
Total	145.4

# Survey Results - Property Managers



## Biggest values:

- Added convenience (10 / 10)
- Items only placed in designated areas (10 / 10)
- Resident Appreciation (10 / 10)
- Monetary Benefit (8 / 10)

“Everything [went well]: location, amount of time it was there, regular renewal, etc.”

# Survey Results - Property Managers

Half of properties experienced a reduction in time staff spent managing bulky waste.

“The tenants and management appreciated the service as it freed up staff time, and helped residents clear out unwanted items.”



# Survey Results - Property Managers

80% of responses indicated that the amount of bulky waste collected was more than their typical amount.

[SSW Staff] made this a breeze for us and our residents got rid of a ton of their things through the correct process!



# Survey Results - Residents



## Biggest values:

- Added convenience (45 / 50)
- Monetary benefit (29 / 50)
- Items only placed in designated areas (27 / 50)

“Just the sheer fact that people had somewhere to dispose of their unwanted bulky things is helpful because not everybody has transportation to be able to take their unwanted bulky stuff to be properly disposed of....”

# Survey Results - Residents

21/50 indicated they'd prefer the cost of bulky waste collection to be included in their regular garbage service/bill.

17/50 indicated they'd most prefer management to cover the cost.



# Survey Results - Residents

“Just the sheer fact that people had somewhere to dispose of their unwanted bulky things is helpful because not everybody has transportation to be able to take their unwanted bulky stuff to be properly disposed of.....”

“It'd be ideal to have bulky service available every 6 or 12 months. I appreciate the service, it's the first time I've ever seen it (in 12 years)”

“Giving people a space to dispose of these items that was really convenient was great! I am sure it cut down on illegal dumping.”

“It went long enough to everybody had a chance to get their stuff down regardless of how busy their lives were.”

“The trash area at my apartment was easier to use.”