Metropolitan Washington Council of Governments Recycling Committee May 21, 2020



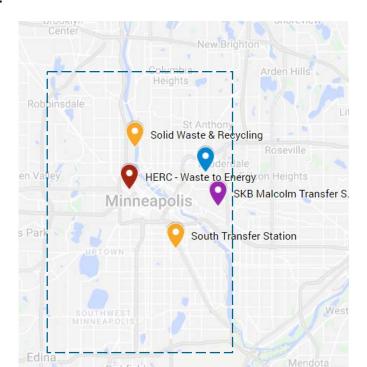


Kellie Kish
Recycling Coordinator
Minneapolis Solid Waste & Recycling

Minneapolis City of Lakes

Division overview

- Population: 425,000
- City SW&R customers: 107,000 dwelling units
 - Some residential parks, City buildings, small businesses, and larger apts. who opt-in to city service
 - Half serviced by City crews, half by a consortium – MRI
 - semi-automated trucks with 2 person crew
 - Solid Waste & Recycling
 - South Transfer Station
 - HERC Waste to Energy
 - Eureka Recycling
 - SKB Malcolm Transfer Station
 - SET Empire Composting Fac...



Division Overview

Services Provided (1-4 unit buildings):

- Garbage (weekly)
- Recycling (every other week)
- Organics Collection (weekly)
- Large Item Collection (weekly)
- Yard Waste (Apr. Nov.)
- Clean City Services:
 - CleanSweeps
 - Litter Clean-Up Supplies
 - Adopt-A-programs
 - Graffiti Abatement
 - Voucher Program
 - Event Recycling Services











Background 2019 project

- 2018 intern project
 - Piloted picture based recycling tag
 - Cart checking
 - Door-knocking
- Found several city-serviced multiunit properties without recycling carts
- Assumed tenants didn't think they could request recycling carts









2019 project overview

- Verify if worthwhile to reach properties who do not have recycling
- City serviced 4 or more unit buildings who do not have recycling (278 properties)
- Contact to sign up
 - Mail and cart hanger
 - Resident vs. utility bill or tax payer
- Cart checking
- Door-knocking
- Follow up survey





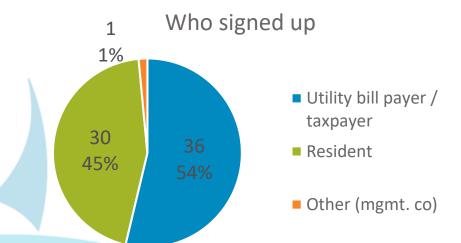




Sign up summary

1 month after mailing:

- 45 properties had signed up for a recycling cart (16.2% of target)
- Left cart hangers on all other properties
 - 5 sign-ups while leaving cart hangers
 - 35 properties found to share collection points (12.5% of target)
- Residents infrequently requested educational materials for their whole building.





Sign up method	# of properties signed up	% of total signups	% of targeted properties
Direct	47	70.1%	16.9%
mail			
Cart	13	19.4%	4.7%
hanger			
In person	7	10.4%	2.5%
Total	67		24.1%
signups			

5 properties had carts removed by end of pilot. 92.5% (62) maintained successful recycling programs.

Cart checking

- Carts checked 3 collections in a row when recycling carts requested
 - Monitored for contamination (ranked 1-4)
 - Tracked how full carts were
 - Added "no plastic bag" stickers if warranted and container labels on top of cart if faded
 - Left "order another cart" hanger when carts were full

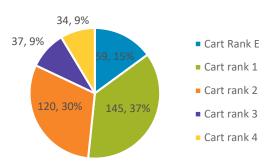
	How full					# carts of
Rank	25%	50%	75%	100%	Total	recycling
1	31	17	8	29	85	51.25
2	18	14	8	48	88	66.5
3	18	10	11	46	85	63.75
4	4	5	3	11	23	16.75
Empty					59	197.25

180.5 carts of clean recycling (ranked 1 or 2) diverted during pilot. At 20 lbs/cart, if the program is maintained, each property would divert 608 lbs each year.



No plastic bag stickers left on 54 (80.6% of properties)

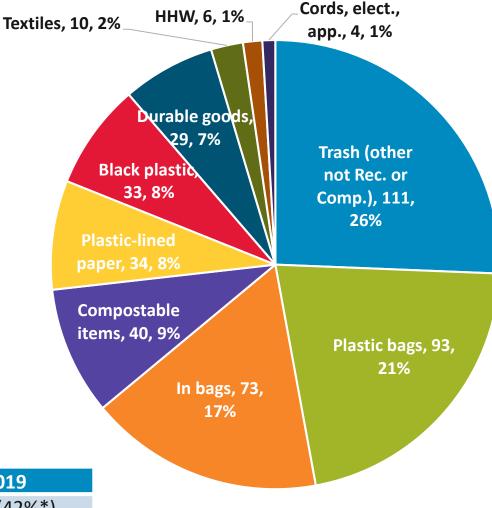
Overall cart rankings



78.9% of carts checked (empty excluded) contained 0-3 pieces of contamination.

Contamination

- Trash highest category.
 - 2nd highest in 2018.
- Plastic bags second highest.
 - Highest in 2018.
- Plastic lined paper and black plastic counted separately from 'trash' category.
 - Included in trash category in 2018.



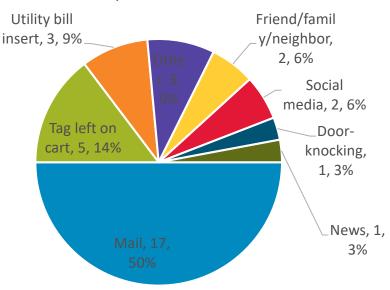
Material	2018	2019
Trash	26%	26% (42%*)
Plastic bags and film	30%	21%
Bagged recyclables	10%	17%
Compostable items	19%	9%
Durable goods	7%	7%

^{*2019} Trash total of 42% includes plastic-lined paper and black plastic that were counted separate in 2019.

Follow up survey

- Mailed to all who signed up for a cart on 8.5.19
 - 67 buildings = 264 units
- Included incentive of a chance to win one of 5 \$20 Target gift cards for returning completed survey by 8.30.19.
- Received 18 total surveys back (6.8%)
- Survey questions evaluated:
 - How resident learned could sign up for recycling cart
 - How and why they recycle
 - What they have/have not recycled since getting the cart
 - How they get information on recycling

How have you received recycling information in the past 3 months?

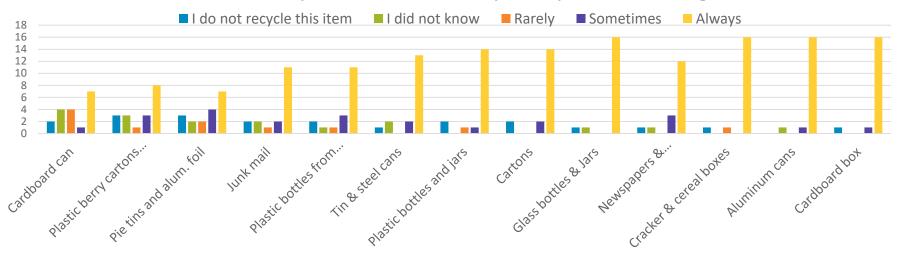


How do you store recycling inside your house before bringing it to your cart?



Follow up survey (cont.)

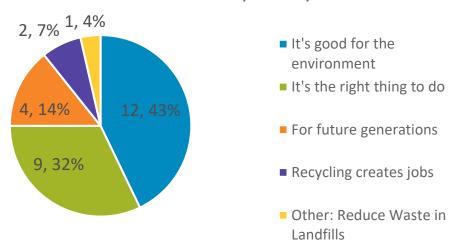
These items are recyclable. How often do you recycle the following items?



Top non-recyclable items respondents have put in recycling in past 3 months:

- 1. Paper plates
- 2. Napkins and paper towels
- 3. Foam items
- 4. Clothes hangers
- 5. Drinking glasses and plates
- 6. Plastic bags

What is the # 1 reason you recycle?



Educational efforts

- Door-knocking at multiunits is difficult
 - Less likely to get someone to open shared locked entry door and less likely to have the educational materials reach all tenants.
- Education and outreach to tenants and owners is important. Direct mail should be used for this type of outreach.
- Residents are frustrated about losing recycling from others placing contaminants in their cart.
- "No plastic bag" stickers are effective at reducing plastic bag usage (especially in combination with an educational tag).

End results

- 67 properties signed up; 62 maintained recycling program for tenants (92.5% retention).
- 79% of carts contained less than 3 pieces of contamination.
- 3,945 pounds (181 carts of clean recycling diverted) during pilot
 - Equates to increased diversion of over 15.8 Tons per year if program is sustained at current levels by the 62 buildings.
- YES! It was worth the time to reach out to these properties.

Reaching all without recycling

- Mailed a postcard to all properties with SW&R service that do not have recycling in Oct 2019
 - Single family 2,237
 - 2-3 unit 1,207
 - 4 or more units 216
- As of 5/18:
 - 503 buildings (742 dwelling units) now have recycling
 - 669 carts delivered; only 33 removed for continued contamination





Minneapolis
City of Lakes
Solid Ware & Recycling
308 2nd Aue S, Room 210
Minne a polis, MN 55401

Resident 123 Main Street Minneapolis, MN POSTAGE PAID

Questions?

2019 multiunit recycling evaluation

Kellie Kish
Recycling Coordinator
kellie.kish@minneapolismn.gov
612-673-3536



