



FoodCycler™

On-Site Organics Diversion Program

Prepared for:
Township of Asphodel-Norwood
March 12, 2024

Presented by:
Food Cycle Science
Farah Sheriffdeen

About Us

- Canadian company based out of Ottawa, Ontario
- 100% focused on Food Waste Diversion Solutions
- Official Canoe Procurement Group of Canada approved supplier
- Recent Awards include:
 - Finalists in Impact Canada's Food Waste Reduction Challenge
 - Selected as one of the 2021 Deloitte Fast 50 CleanTech award winners
 - #137 on Globe & Mail's Canada's Top Growing Companies for 2022

120
Municipal
Partnerships
...and counting!

canoe
APPROVED SUPPLIER

Canada

Deloitte
Technology Fast50

Sage

Breville

Vitamix

Sobey's

impact
Canada

Apple

Canada
Agriculture and
Agri-Food Canada

BGIS

THE OUTDOOR
LEARNING STORE
OUTDOORLEARNINGSTORE.COM

eco schools
écoécoles
CANADA

Trusted Canadian Solution

From Coast to Coast to Coast



One Hundred and Twenty Canadian Municipal Partners
... and counting!

Pilot Program Recap

- With support from Impact Canada's Food Waste Reduction Challenge, a pilot program was run in the Township of Asphodel-Norwood that included 100 participating households.

- Net cost to the Municipality was \$10,000 + Shipping + HST

- Program ran from July 2023 to September 2023

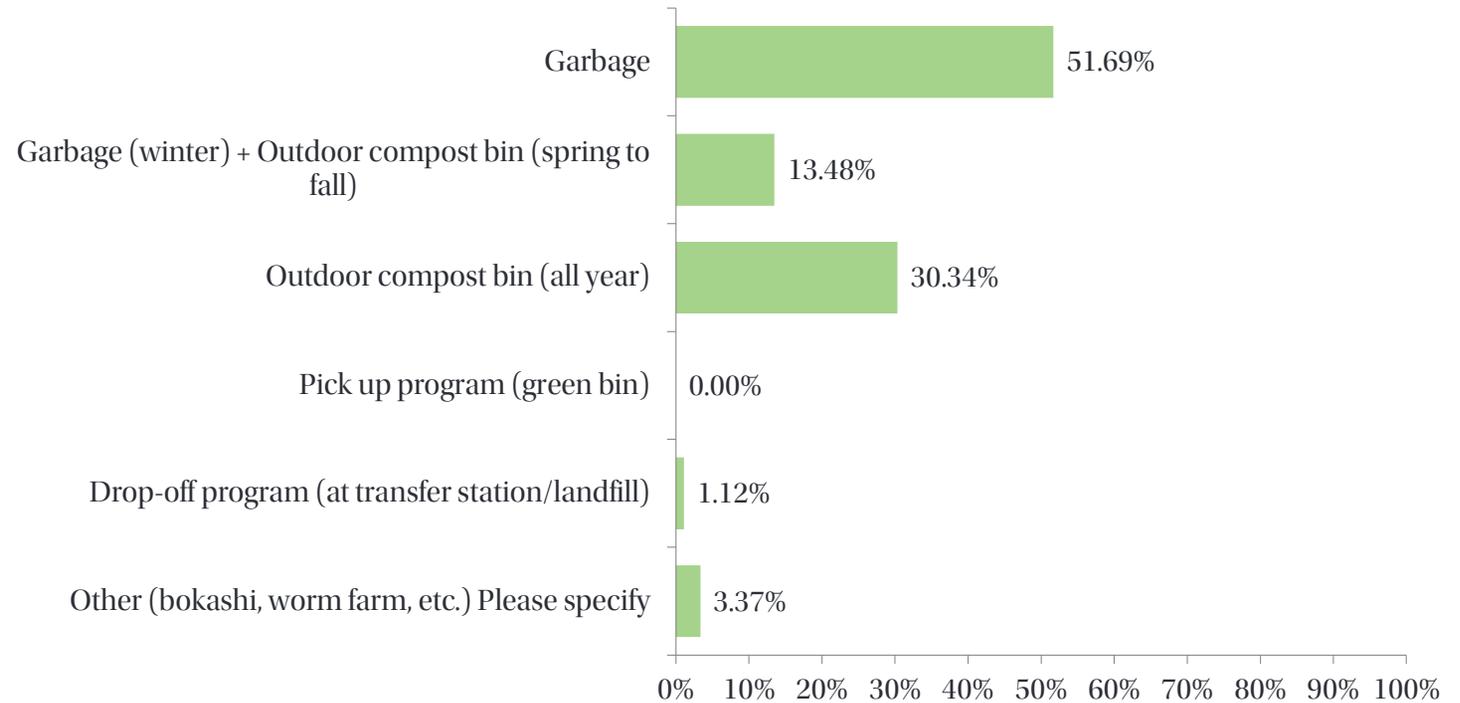
- Usage was tracked for 12 weeks to calculate total waste diversion.
- Participants completed a survey to provide data and feedback.



Pilot Program Results

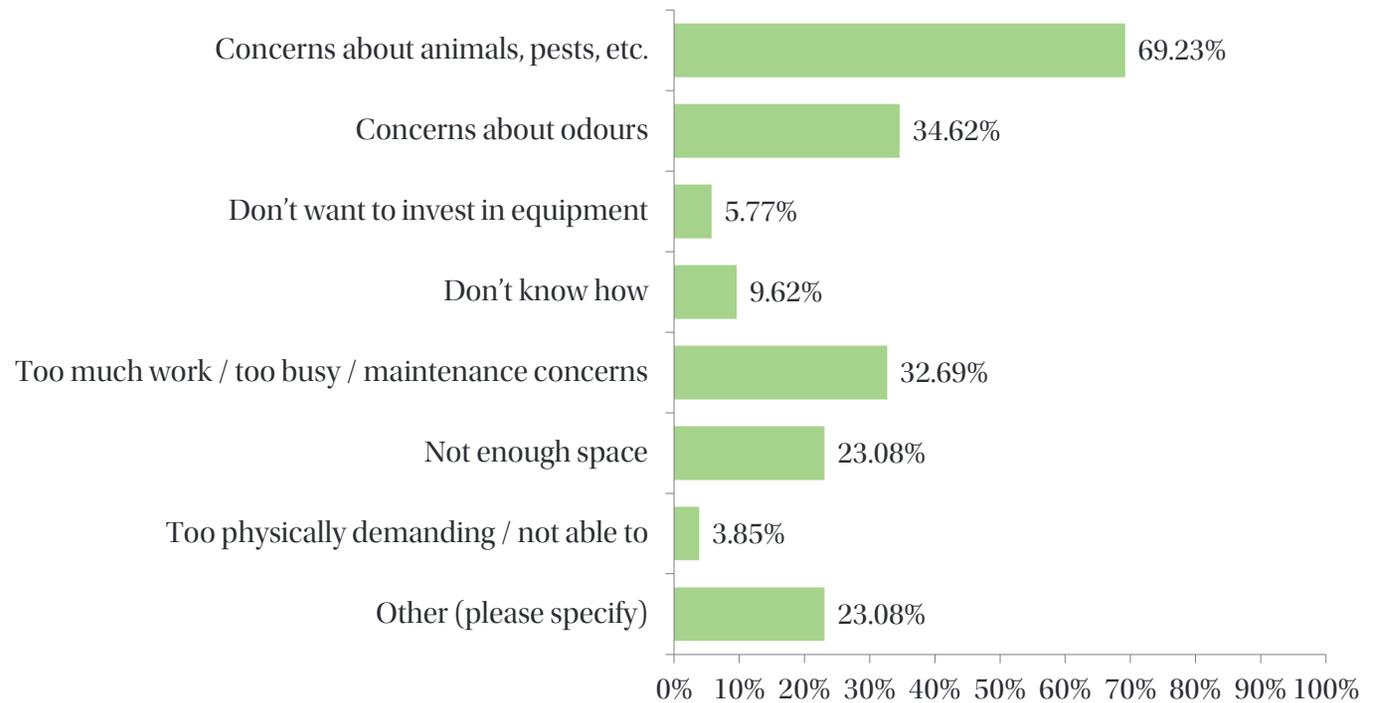
91 responses collected out of 100 participants (91%)

- How important is greenhouse gas reduction to you? 8/10
- How important is waste reduction to you? 9/10
- Where does your food waste currently go?



Pilot Program Results

Why don't you compost?

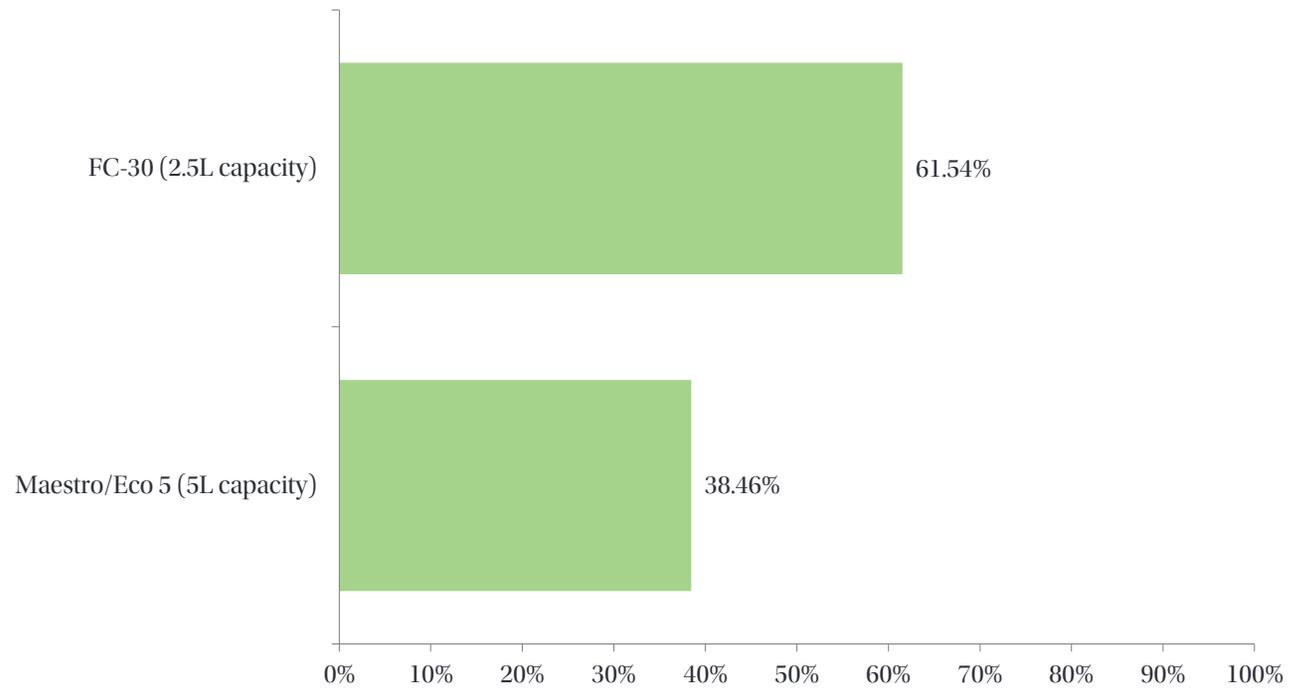


"I find composting very messy, so I like the food cyclers better."

"Appreciate the speedy reduction of food waste vs traditional composter."

Pilot Program Results

Which device do you have?



Pilot Program Results

- Average of **3.43 cycles/week** for FC-30
- Average of **3.14 cycles/week** for Maestro/Eco 5
 - Equivalent to **~223 kg/year/household**
 - Total of **22.3 metric tonnes (MT)** of food waste diverted from landfill/year from 100 FoodCyclers in use



Pilot Program Results

- 100 FoodCyclers in the township will divert 29 MT CO₂ equivalents per year, the equivalent to carbon sequestered by 34.6 acres of forest each year!



Pilot Program Results

Residents Reported generating 0.32 fewer standard garbage bags per week, a reduction of 16.6 garbage bags per household per year being trucked to local landfills!



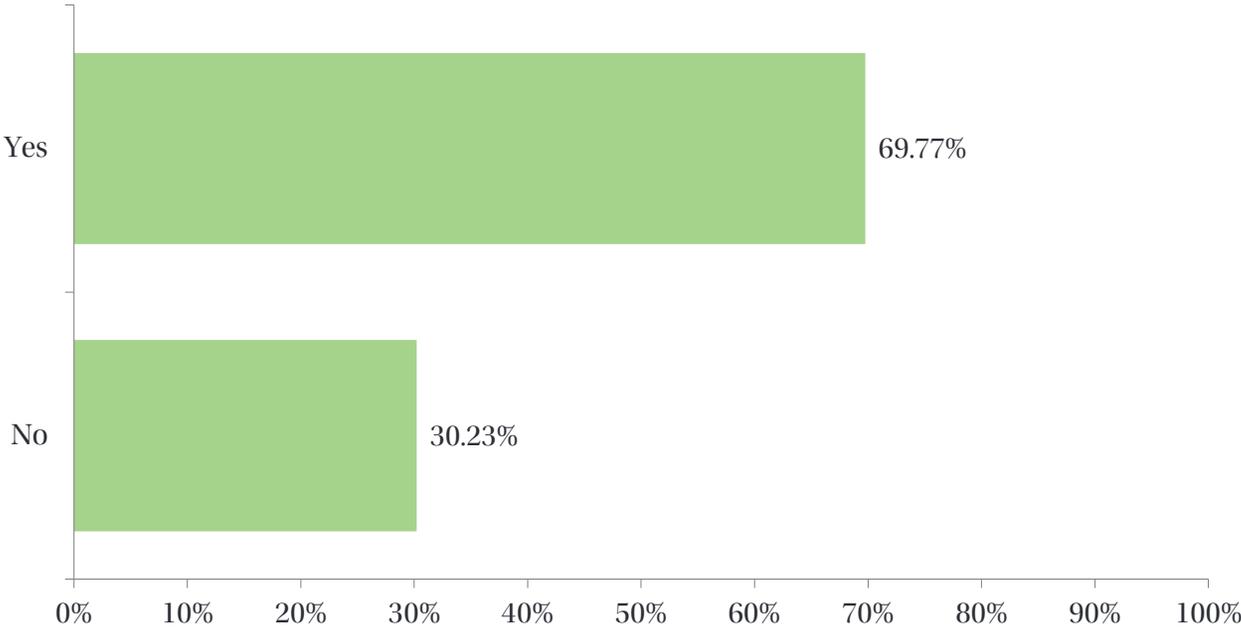
"I love it. So much of our regular garbage collection was just food waste. The answer fields limited me from clarifying our regular garbage waste, but we went from at least 1 full bag, occasionally two to less than one bag per week. Sometimes we don't need to put it out because it's not full enough and we don't have to worry about any food rotting in the bags or shed either. I think it would be an incredible investment for the community to be able to offer this to more households."

"I only had to put curb side garbage every 2nd week with use of the food cyclor."

"We went from a large bag to a very small bag and that was not an option to identify in the survey, so it looks like we didn't reduce the amount of garbage, but we did! We got down to one small bag."

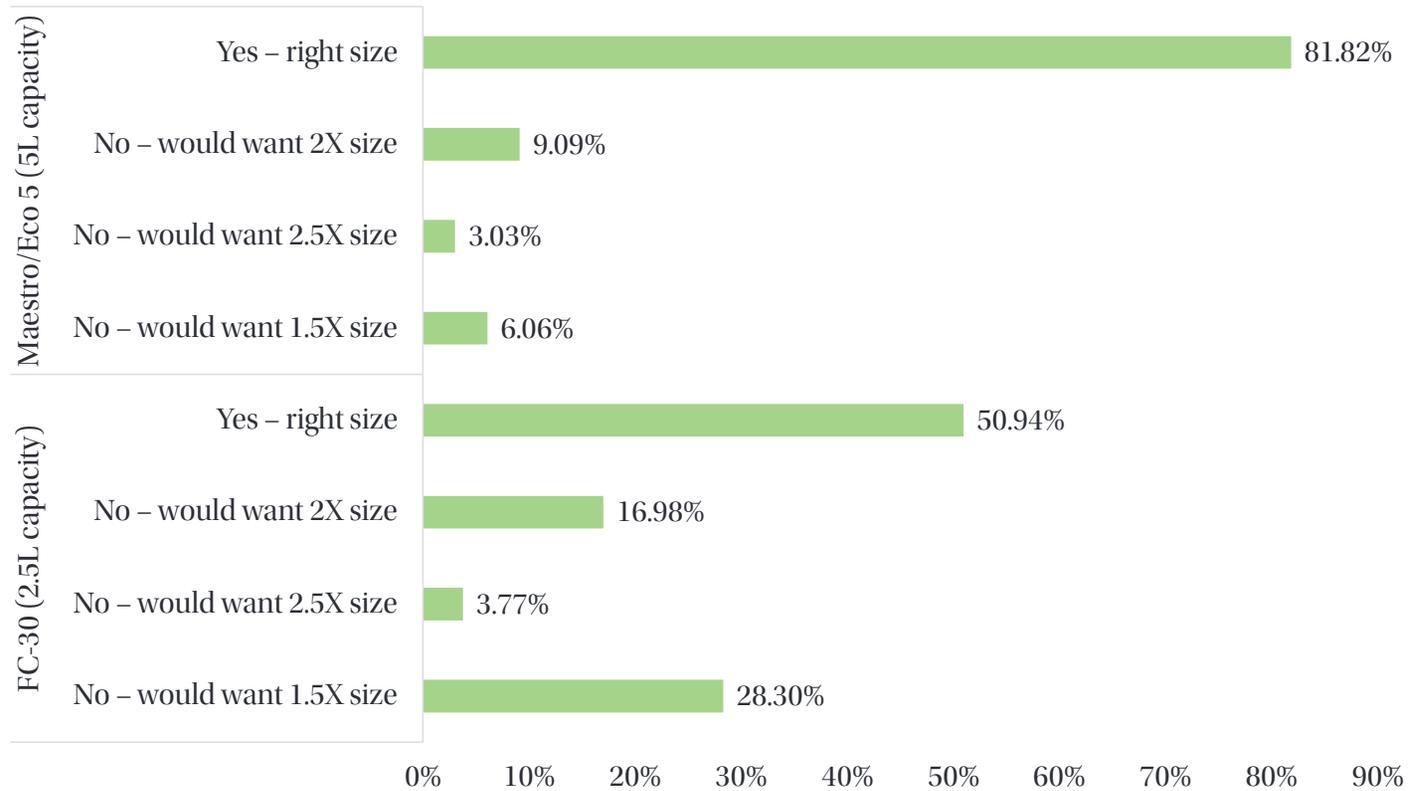
Pilot Program Results

Did increased awareness of food waste motivate you to waste less food?



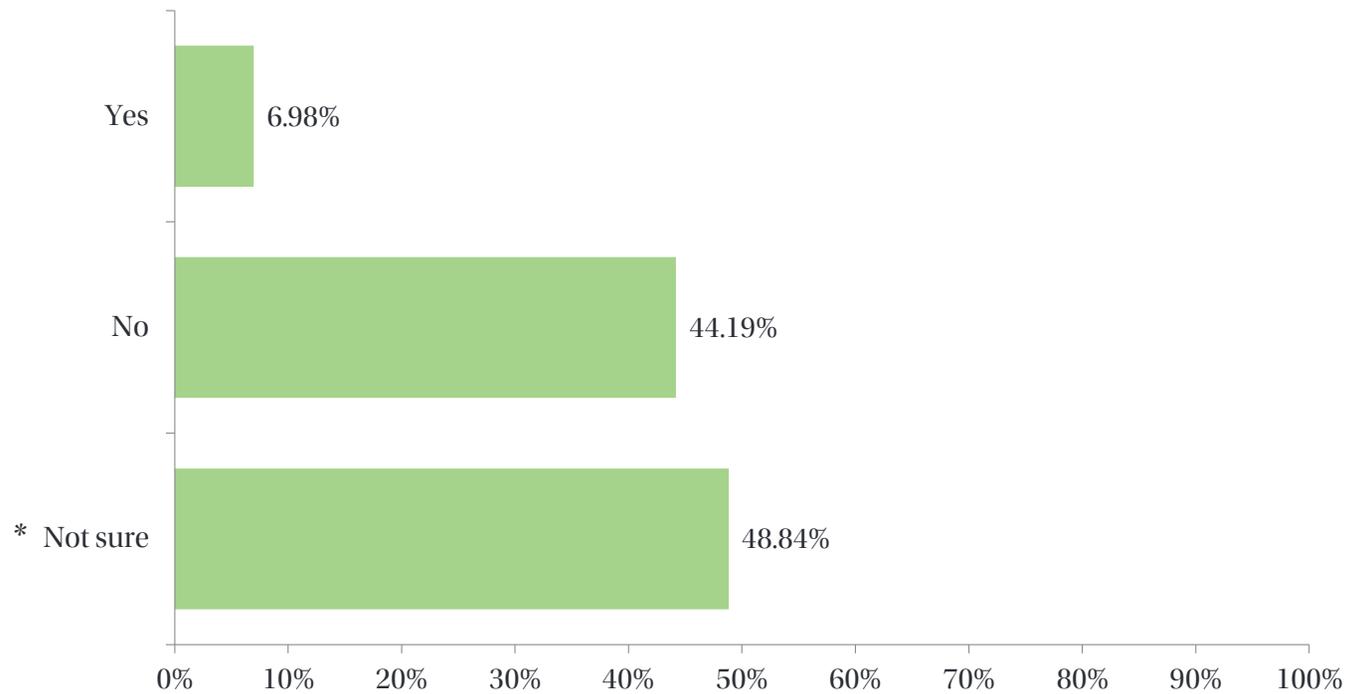
Pilot Program Results

Was the FoodCycler sufficiently large for the quantity of daily food waste you generated?



Pilot Program Results

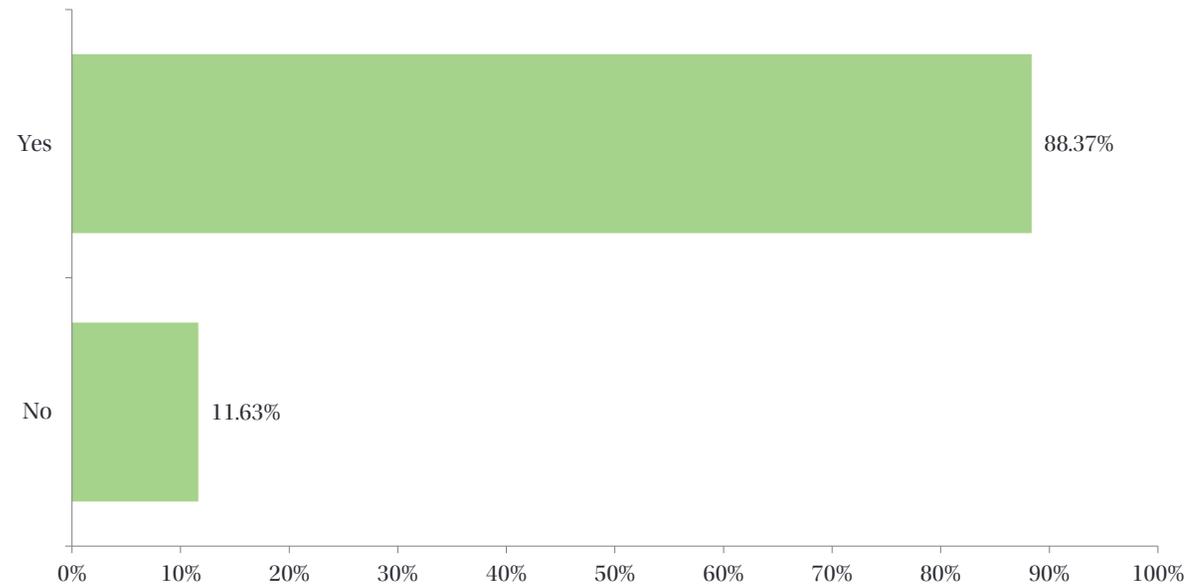
Did you see increased electricity costs during the time you used the FoodCycler?



*Suggests that increased electricity costs are negligible/acceptable

Pilot Program Results

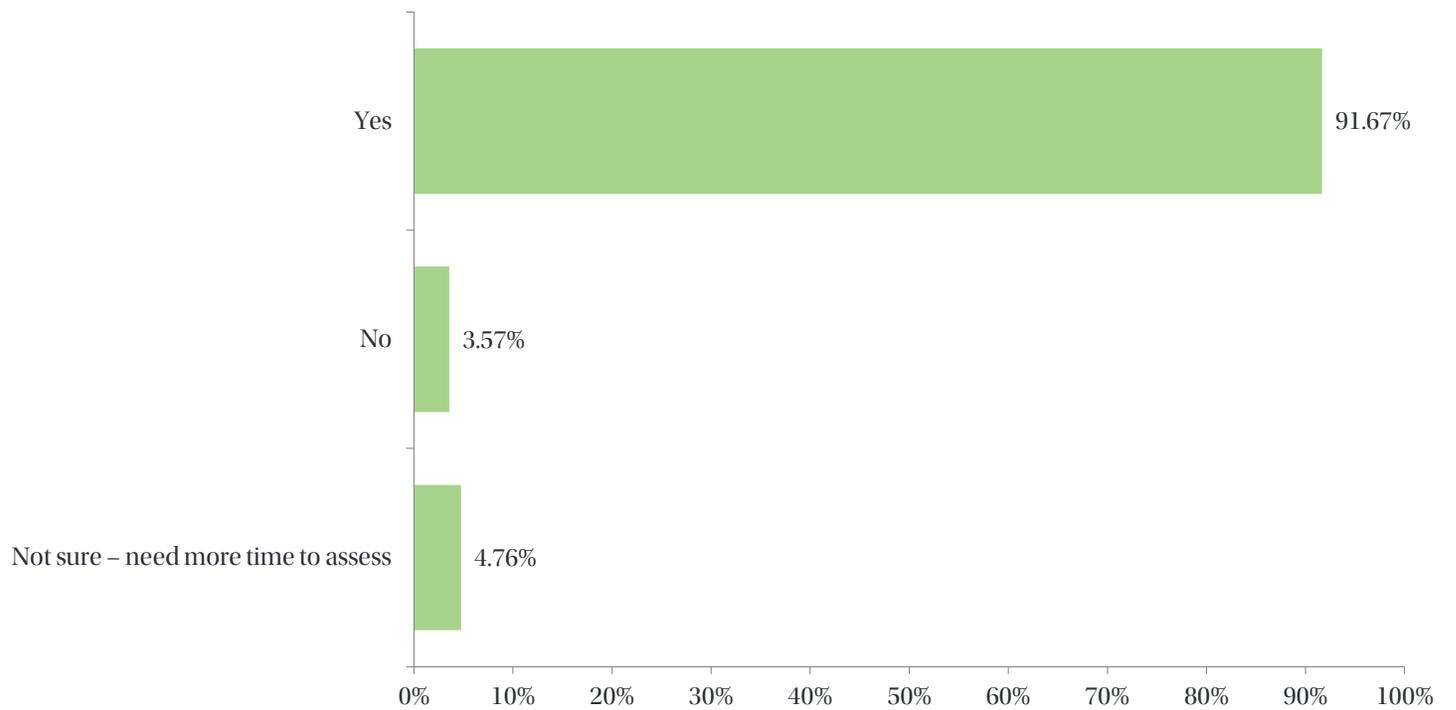
If the municipality continued to offer a FoodCycler to residents at no or low cost as part of a diversion program, do you think your friends / neighbours in the community would participate?



"I think this machine is amazing! Thank you so much for letting me participate in this pilot. I have accumulated a 5 gallon pail of beautiful compost and would love to buy another machine if possible. I bought the 5-litre unit and broke a blade in week 6, but the company sent me a new bucket at no charge, which I thought was amazing customer service! Thank you for your progressive approach to waste management. I hope you can entice others in our township as well as other municipalities to engage in this program."

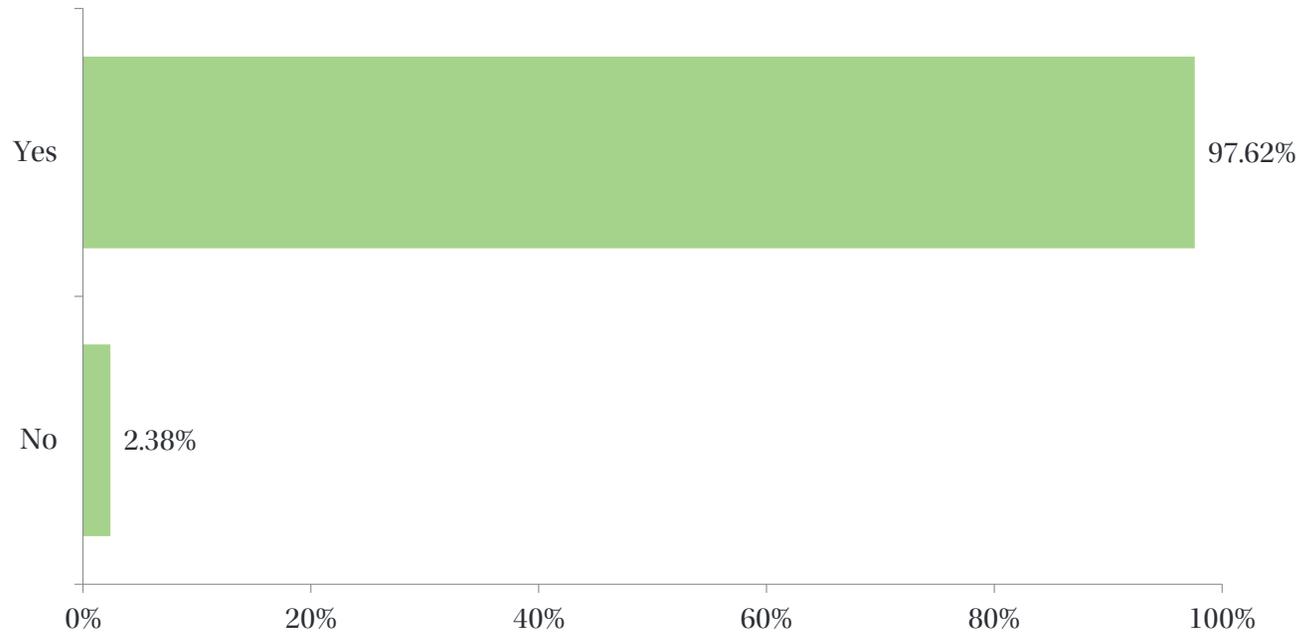
Pilot Program Results

Would you recommend the FoodCycler to others?



Pilot Program Results

Will you continue using the FoodCycler after this pilot?



"Love the reduction of food scraps and having no smelly green bin to deal with. It will get more use in the wintertime when we start making more soups and stews. Just need to find a good solution for the output."

"We like the way it turns food waste into a soil product. Perfect for gardens to mix in."

"I think the product is great for reducing food waste and its size and sleek look is great in our kitchen."

Pilot Program Results

Please rate the overall pilot project experience out of 5 stars.

Average rating: 4.6/5 Stars



- 1 Star = 0%
- 2 Stars = 0%
- 3 Stars = 6%
- 4 Stars = 26%
- 5 Stars = 68%

"The FoodCycler makes me feel much better knowing that I have a plan for food waste instead of throwing food waste in the garbage. So glad the municipality is trying to be more eco-friendly and is willing to bring pilot programs to our area in general."

"I really like the product and what it produces—great for the environment and the gardens."

"Worked well and it will save a lot of winter treks through snow this winter to the compost bin."

Pilot Participant Comments

“Possibly a monthly pickup or drop-off location for the compost would be nice. “

“only thing is the cost and time limit of the filters. I just purchased refills and the shipping is too much....the charcoal is kinda high considering we could smell it after the first week or so of using the machine. That is not super efficient...there fore rated a 4. Change the longevity of the filters and its a 5 for sure!”

“May be too costly for the average income for Norwood families, especially given the current situation with regards to inflation. More people might participate in curb side collection simply because it is cheaper, although I feel the foodcycler works better for our family (set it and forget it, no smells, doing it at a time/day that works best for us).”

“I found fibrous material often got stuck in the "arms" that impacted the quality of the compost and the ability to clear/clean it. Also, I did not like that if I completed a fruit heavy batch it became very gummy and did not dry out well, so we had to only add as a portion of the compost and then throw out the rest in the garbage.”

“Pineapple took a few runs to break down otherwise it came out in a clump. We used an anerobic digester in the backyard but could not keep up with our waste. This product needs more advertisement as most people I talked to this about had no idea what it was, and I believe everyone should have one.”



Recap and Next Steps

Recap

- **22.3 MT** of food waste diverted from landfill/year from the 100 FoodCyclers in the pilot program
- Residents reported a reduction of **0.32 bags per week** which equals **16.6 bags/resident/per year** of food waste diverted from landfills.
- **97%** of participants will continue using the FoodCycler



Scaling Real Change

Nelson, British Columbia (5000 homes)

Citywide Pre-treated Organics Program including:

- Free bulk carbon refill station in local Safeway grocery store
- Full warranty and local repair program
- Convenient, animal-proof soil amendment drop off locations
- Accessories sold by local businesses
- E-waste recycling programs established locally
- Resident education – guides, information sessions, and how-to videos



CBC | MENU

NEWS Top Stories Local Climate World Canada Politics

British Columbia

B.C. community expands home composting pilot project to divert more food waste from landfills

Next Steps

Next Steps

- Life Cycle Analysis
 - Our new Emissions Calculator Tool is available at no extra cost to our implementation partners
- New Technology
 - In addition to the two models currently available to municipal residents we are constantly improving our designs and will be adding a new model in 2024!
- Impact Canada AAFC Funding – First right of refusal
- Accept this presentation as information and refer staff to discuss next steps:
 - Explore either an expanded program or comprehensive municipal organics program designed for you by Food Cycle Science





Thank you!
Any Questions?

Farah Sherifdeen
Municipal Program Coordinator
Email: farahs@foodcyclers.com
Phone: 647-539-1090