



long-term
WASTE
MANAGEMENT
STRATEGY

EXECUTIVE SUMMARY | March 2018

The County of Dufferin would like to thank the community for all their input on this initiative, and for their ongoing waste diversion efforts.



TABLE OF CONTENTS

| | |
|---|-----------|
| Introduction | 2 |
| Goals, Objectives & Targets | 3 |
| Waste in Dufferin County in 2016 | 5 |
| Tracking Our Progress | 6 |
| Planned Initiatives 2018-2022 | 7 |
| Targeted/Expanded Promotion and Education | 7 |
| Increase Support for Household Organics | 7 |
| Waste Reduction & Reuse | 8 |
| Blue Box Program | 9 |
| Assess Waste Collection | 9 |
| Business & Agricultural Waste Diversion | 10 |
| Municipal Policies | 10 |
| Other Waste Diversion Opportunities | 11 |
| Road Map to Implementation | 12 |



Dufferin County: a waste management leader in Ontario.

Dufferin County's residential waste diversion rate of 60.1% (2016) is among the highest in the province. To continue building on this accomplishment, Dufferin County has prepared a comprehensive Long-Term Waste Management Strategy (LTWMS). Its development is based on new and established waste management practices, and input from stakeholders and the public. The LTWMS will serve as a road map for future planning of initiatives while effectively maximizing diversion in an economic, environmental and socially responsible manner. The LTWMS will help the County continue to reduce and divert waste and minimize the amount sent for disposal, while delivering a high standard of waste management services.

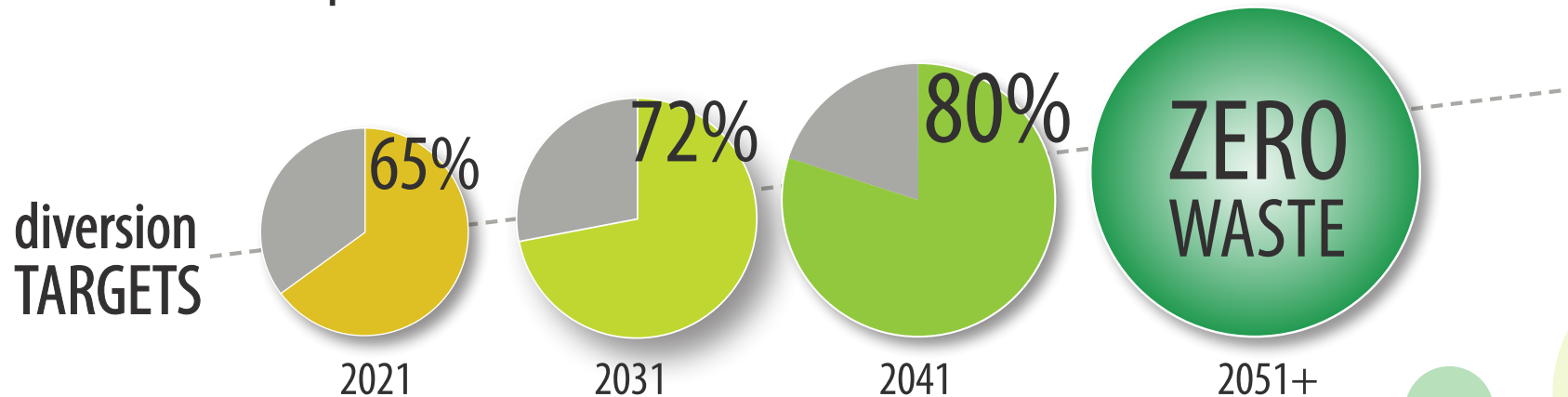


GOALS, OBJECTIVES & TARGETS

MISSION STATEMENT

To update and enhance the County's waste management system to maximize the diversion of waste from disposal in an economic, environmental and socially responsible manner.

Maximize diversion of waste from disposal.



- Increase the amount of waste diverted from multi-residential buildings (i.e., apartments and condominiums) by **25%**.
- Increase the amount of Municipal Hazardous & Special Waste (MHSW) diverted from landfill by **10%** and increase participation at events.
- Assist the agricultural community to explore opportunities to increase the diversion of agricultural waste from disposal.

GOAL #2

Explore waste management opportunities that are either local or located within Central Ontario.

- Engage the private sector and potential partner municipalities to identify opportunities to manage the County's waste.
- Explore two new waste diversion solutions beyond existing waste diversion contracts.

GOAL #3

Involve stakeholders and the public through continual education and feedback to support and facilitate individuals and businesses taking responsibility for their waste.

- Engage the community to confirm and evaluate the success of the LTWMS initiatives.

GOAL #4

Continue with waste diversion programming that is consistent with provincial waste management policy.

- Conduct ongoing monitoring of the Province's efforts to implement Bill 151 and their "Strategy for a Waste Free Ontario: Building the Circular Economy".
- Identify opportunities to maximize diversion and reduce associated costs arising from implementation of Bill 151.



WASTE IN DUFFERIN COUNTY IN 2015



58,570
people

24,159
multi-residential
& single family
households

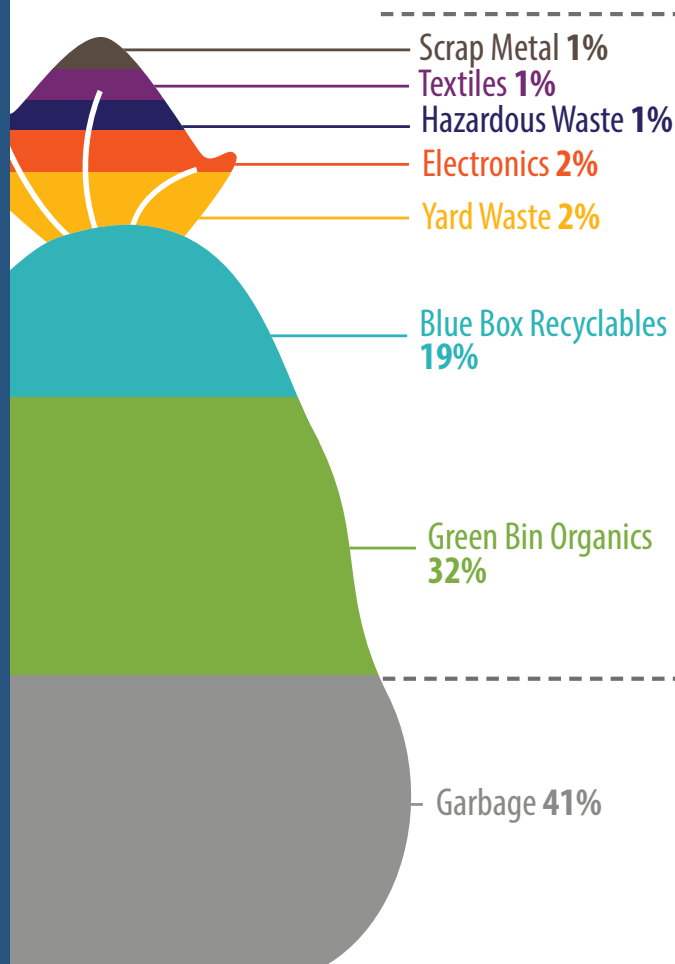
60.3%
of waste was
DIVERTED
from landfill
in 2015

19,391 tonnes of
waste were
generated.

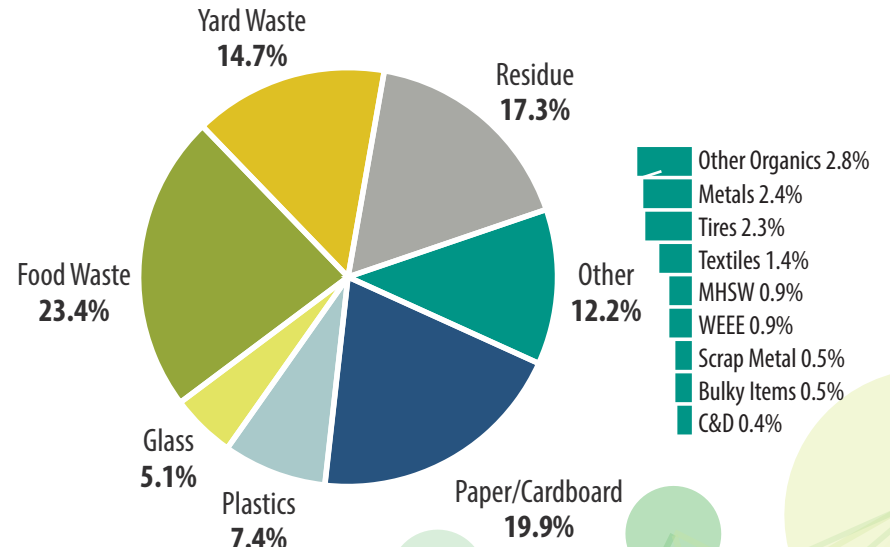
7,695 tonnes of waste
were sent to
landfill.

11,696 tonnes were
DIVERTED
from disposal.

AFTER DIVERSION PROGRAMS,
what's still left in the garbage?

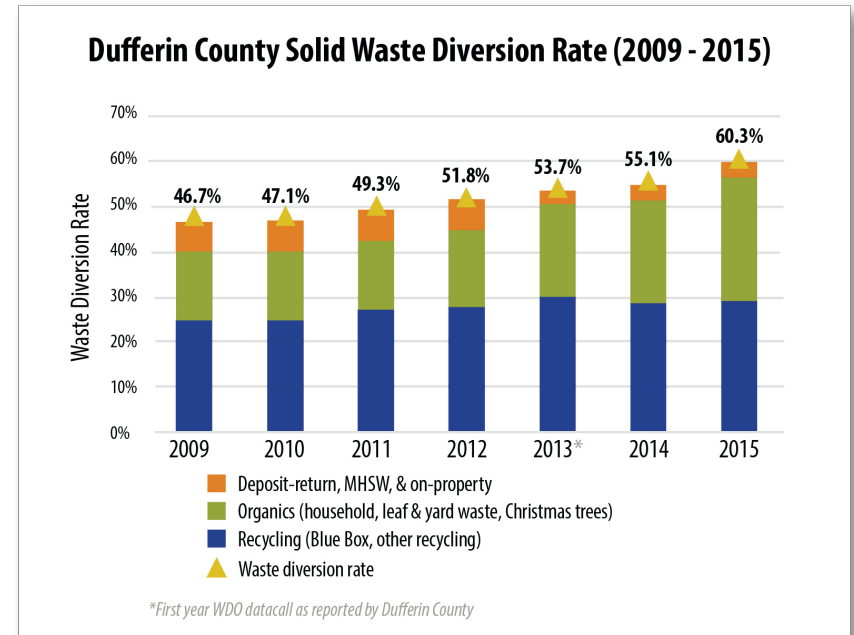
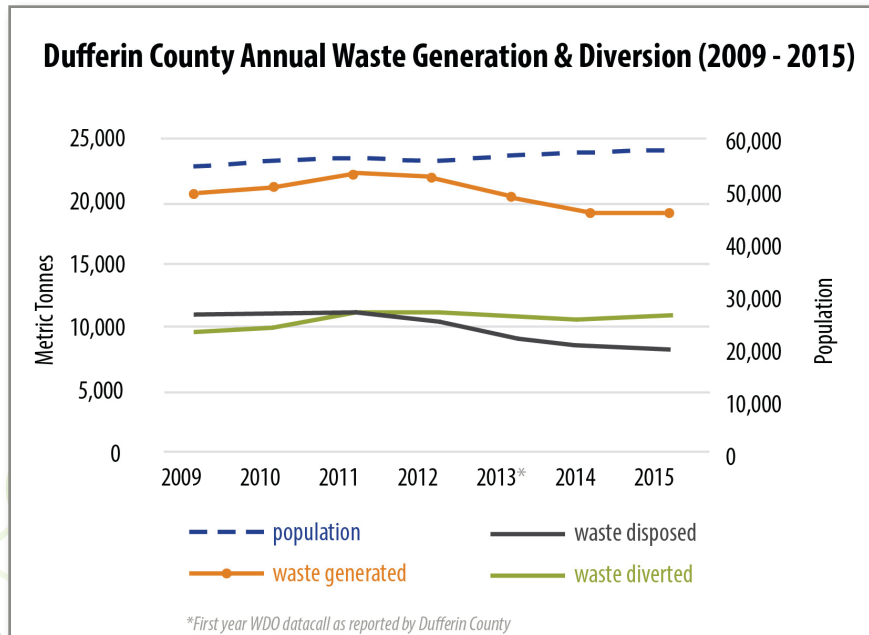


If we
properly
recycle
and
compost
of
what's
still
in the
garbage,



TRACKING OUR PROGRESS

Since 2009, the residents of Dufferin County have steadily decreased the amount of waste sent for disposal. This has been done through a combination of increased diversion of waste (e.g., through recycling, composting, etc.) and through waste reduction (e.g., increased waste reduction practices, reduced weight of packaging, changed purchasing practices, etc.).



PLANNED INITIATIVES 2018-2022

Dufferin's LTWMS focuses on getting more diversion out of the County's existing programs while taking new steps toward waste reduction and diversion opportunities. Below are areas of focus for planned initiatives during 2018-2022. Other initiatives beyond 2022 are listed in the road map on page 12.

1

TARGETED / EXPANDED PROMOTION AND EDUCATION

An effective promotion and education strategy is key to ensure that the County's waste diversion programs are maximized through increased and proper public participation. The County will build upon the successes and lessons learned from previous communication plans and develop a multi-pronged Waste Diversion Promotion and Education Strategy. The promotion and education strategy will identify opportunities for diversion (e.g., specific waste streams or audiences, etc.), barriers to participation, and strategies for addressing them.

INCREASE SUPPORT FOR HOUSEHOLD ORGANICS

The Green Bin program provides the greatest opportunity for increased diversion in Dufferin County. The County will maximize its existing program by developing a comprehensive Organics Diversion Strategy, which will include:

- Identification of barriers to participation in the Green Bin program;
- Developing methods for removing or addressing the identified barriers; and
- A possible re-launch of the Green Bin program.

This initiative also has potential to operate in concert with the Food Waste Reduction Campaign.

2



WASTE REDUCTION AND REUSE

Waste reduction and reuse are situated at the top of the waste management hierarchy, and stakeholders told us repeatedly that they should be key components of the LTWMS. A number of waste reduction and reuse initiatives that will be implemented include:

A Food Waste Reduction Campaign can help prevent avoidable food waste from entering the waste stream. This will help households save money while reducing Green Bin processing costs for the County.

Increasing Promotion and Education will include promotion of waste reduction and reuse.

Backyard Composting and Grasscycling will continue to be promoted. These practices allow residents to reuse food waste and grass clippings on their own property.

Promotion of “Green Purchasing” can help reduce waste through careful purchasing, such as purchasing products with less packaging or choosing more durable or reusable goods over disposable ones. The County will include Green Purchasing in its Waste Diversion Promotion and Education Strategy to help promote and lead environmentally preferable purchasing.

“Zero-Waste” Public Events can help mitigate the large quantities of waste generated at public events. The County will continue and enhance its efforts to encourage or require event organizers to ensure their events are as waste-free as possible.



PLANNED INITIATIVES 2018-2022

4

BLUE BOX PROGRAM

Dufferin County residents currently use the Blue Box program very efficiently, recovering about 81% of blue box materials found in the waste stream. The following Blue Box-related initiatives will help residents do even better:

Extra Blue Box

To encourage residents to recycle more material, the County will help increase the collection capacity of households by providing an extra blue box free of charge.

Adding new materials to the Blue Box

The new waste collection and processing tenders will be used to assess the feasibility of adding Polystyrene and plastic film to the Blue Box program.

ASSESS WASTE COLLECTION

Reducing garbage collection frequency to every other week (EOW) is an option that has a demonstrated record in other municipalities to increase waste diversion and reduce costs. For instance, reducing garbage collection from weekly to every other week encourages residents to make greater use of available diversion programs, such as the Blue Box and Green Bin programs.

The County will study this initiative further to consider the feasibility and requirements of including it as an option in the next waste collection contract.



5



BUSINESS AND AGRICULTURAL WASTE DIVERSION

The County will work with the business and agricultural community through the following initiatives to help divert waste from disposal:

Promotion of Waste Minimization/Diversion to Businesses

The County will develop a Business Engagement Strategy to help businesses improve how they manage their waste.

Agricultural Waste Diversion

The County will work with the agricultural community, industry representatives and stakeholder agencies (e.g., Ontario Ministry of Agriculture, Food and Rural Affairs) to actively promote participation in existing programs and identify new opportunities for diversion as they become available.



MUNICIPAL POLICIES

Municipal policy will be used to help ensure the County's waste management programs perform to the best of their ability:

Multi-Residential Development Standards

The County will prepare waste management program design standards for future multi-residential developments to ensure waste segregation/diversion is considered during development design.

Extended Producer Responsibility

The Waste Free Ontario Act is shifting the landscape of waste management stewardship in the province. The County will continue to promote existing product stewardship initiatives and participate in stewardship discussions.



PLANNED INITIATIVES 2018-2022

Waste Collection By-law

The County's existing By-Law # 2012-36 defines garbage, organics, recyclables and other waste materials and describes how they are to be set out for collection. The County will develop and implement a strategy to support the enforcement of the by-law for several items, including the "no scavenging" provision.

Multi-Municipal Partnerships

Multi-municipal partnerships for the collection and processing of waste is considered a municipal best practice. The County will continue to be mindful of additional partnership opportunities that may exist beyond the County's borders.



OTHER WASTE DIVERSION OPPORTUNITIES INCLUDED IN THE LTWMS:

Textile Recycling

The County will promote existing opportunities for textile reuse and recycling, and assess the feasibility of introducing other collection methods for textiles.

Expansion of Municipal Hazardous or Special Waste (MHSW) and E-waste Diversion Program

The County will continue to monitor stewardship obligations for MHSW and electronic waste as they evolve under the Waste-Free Ontario Act. Options the County may consider once stewardship guidelines are in place include opening a permanent MHSW collection depot, implementing curbside collection of e-waste, and/or expanding the number of special collection days.

ROAD MAP FOR IMPLEMENTATION

The schedule is organized according to priority groups and when programs or initiatives are scheduled to be implemented. Generally, higher-level priority group options are implemented before those found in lower level priority groups, with a few exceptions. Please see the full strategy document for more details.

| INITIATIVE | 2018 | 2019 | 2020 | 2021 | 5 year review | |
|---|--|-----------|-----------|-----------|---------------|-------|
| | | | | | 2022 | 2023+ |
| Food Waste Reduction Campaign | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | |
| Expand Blue Box Capacity (extra blue box) | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | MAINTAIN | |
| Promote "Green" Purchasing | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | MAINTAIN | |
| Increase Support for Household Organics | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | |
| Support Backyard Composting & Grasscycling | PLAN | IMPLEMENT | IMPLEMENT | MAINTAIN | MAINTAIN | |
| Targeted/Expand Promotion & Education | | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | |
| Textile Recycling | | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | |
| Encourage "Zero Waste" Events | | | PLAN | IMPLEMENT | MAINTAIN | |
| Promote Waste Minimization to Businesses | | | PLAN | IMPLEMENT | MAINTAIN | |
| Expand MHSW & E-waste Diversion Program | | | PLAN | IMPLEMENT | MAINTAIN | |
| Support Agricultural Waste Diversion | Ongoing support as opportunities arise | | | | | |
| Encourage Extended Producer Responsibility | Ongoing support as opportunities arise | | | | | |
| Explore Multi-Municipal Partnerships | Ongoing support as opportunities arise | | | | | |
| Assess Garbage Collection Frequency | | PLAN | | | | |
| Enforcement of Waste Collection By-law | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | |
| Multi-Residential Development Standards | PLAN | IMPLEMENT | MAINTAIN | MAINTAIN | MAINTAIN | |
| Assess Addition of Materials to Recycling Program | | PLAN | | | | |
| Review Public Space Recycling | | | | | | PLAN |
| Consider a Maximum Bag Limit | | | | | | PLAN |
| Investigate Shift to Full User Pay | | | | | | PLAN |

MONITORING & EVALUATION

WASTE AUDITS

The use of waste audits are a key component of the LTWMS's monitoring and evaluation plan. The waste audits will help to confirm the type and amount of divertible waste still being disposed in garbage and requires additional targeted effort and support to increase diversion. Waste audit data is particularly useful when implementing the options and in providing a benchmark against which future waste management performance can be measured.

CURBSIDE DATA

Curbside data collection takes various forms, depending on the type of data. For instance, a Participation Study measures the level of public participation in waste diversion programs based on a sample of households in the County's curbside waste collection programs. Other examples include visual inspections and collection compliance.

DIVERSION RATE

The RPRA Datacall is where municipalities in Ontario report the results of their waste management programs. The Datacall measures the County's waste diversion rate and allows the County to compare its performance against that of other municipalities in Ontario.

TONNAGE DATA

Curbside tonnage tracking data is collected to measure the amount of material collected and processed for the relevant waste streams. This data can be used to analyze monthly or annual trends to help assess the impacts of waste management programs.

COMMUNICATION & EDUCATION

The County will continue to use existing promotion and education tools and will use a number of additional methods to enhance our programs, support the LTWMS, and to encourage reduction, reuse, and recycling of waste. This includes ongoing research to inform campaigns, build our online presence, and continue to encourage the use of available tools, such as the DufferinWaste app.





long-term
WASTE
STRATEGY



To see the full strategy, please visit our
website or contact us.