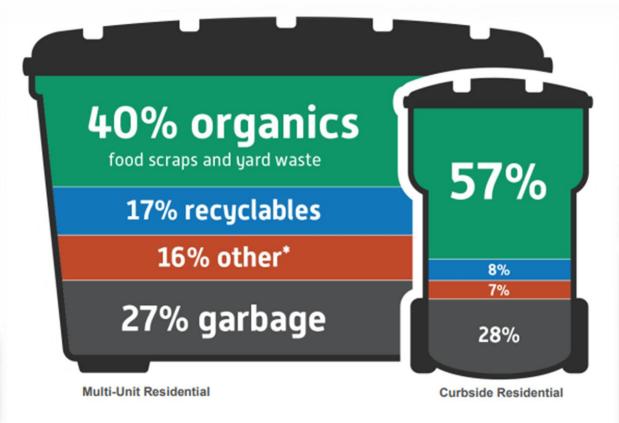




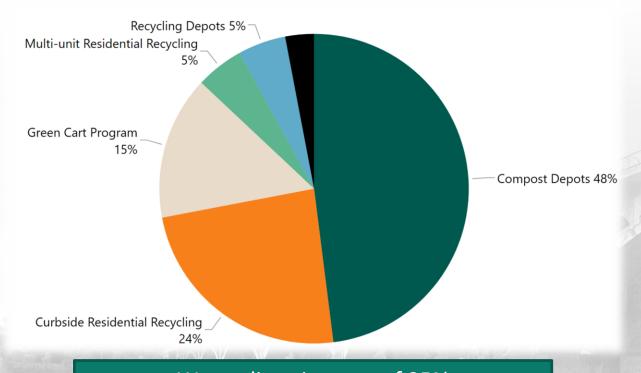


Saskatoon Solid Waste Trends





Waste Diversion



Waste diversion rate of 25% 30,900 tonnes of material diverted in 2021



Composting Facility Locations



City of Saskatoon

Use Nature as a Solution to Waste





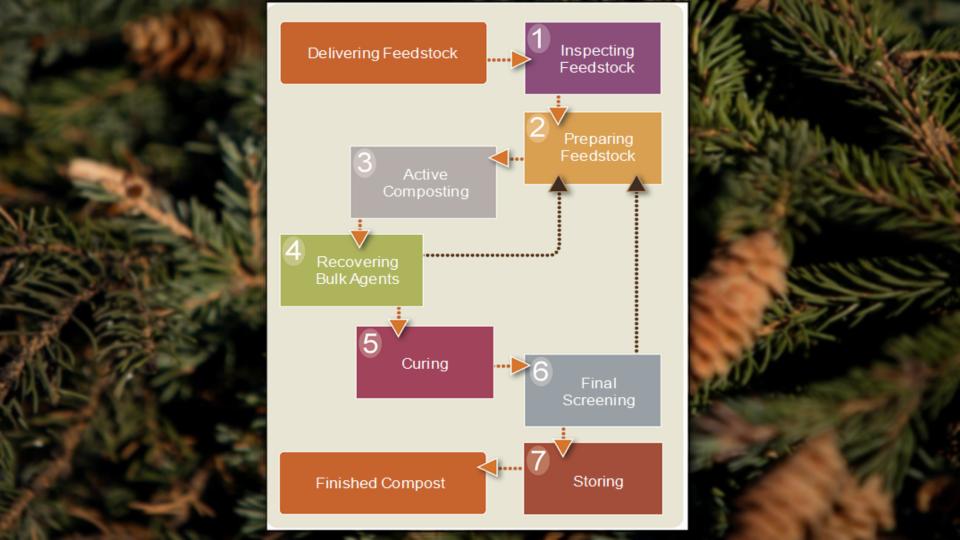
Compost Requirements





Environmental Benefits

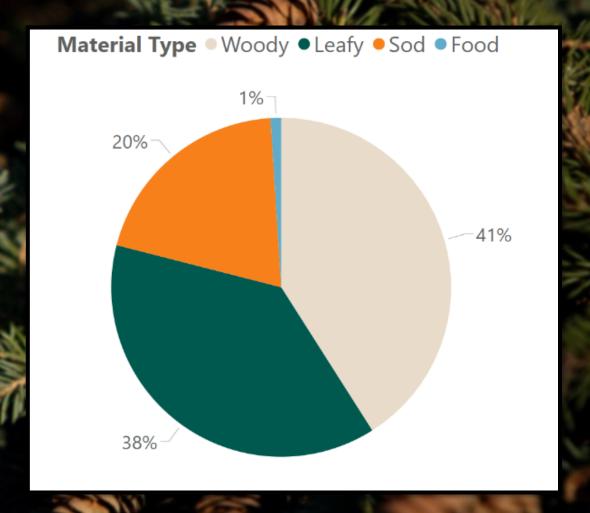
- Improving soil health
- ➤ Reducing the City's carbon footprint Reduced by 4,656 tonnes CO_{2e}
- Recycling nutrients into the soil
- Less need for commercial soil conditioners, fertilizers and pesticides
- > Erosion and sediment control applications
- Replace organic matter in depleted soils





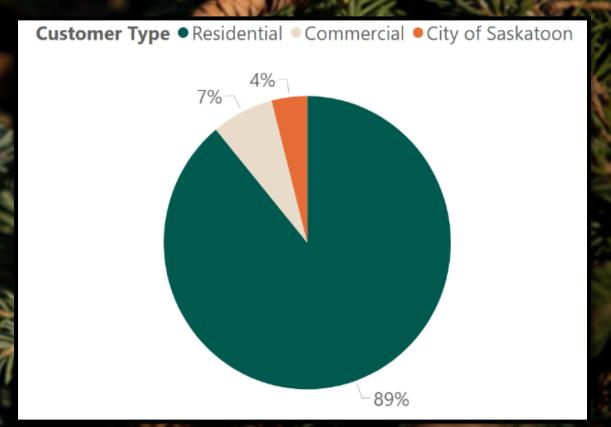
Feedstock Trends

- Tonnages are based on bulk density and volume estimates
- Wood and leaf/yard waste make up much of the inbound waste
- Limited kitchen waste is only allowed through the Green Cart Program

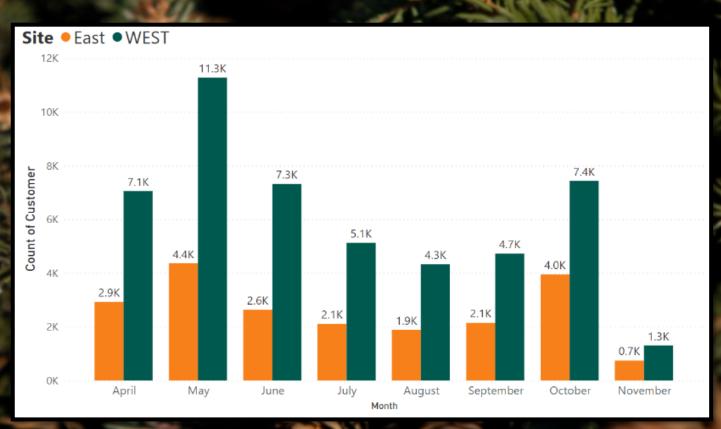


Customer Trends

- Over 69,300 vehicle visits were recorded in 2021
- Most residential trips are one-time visits
- City Parks and Green Cart Collection trucks represent the majority of internal customers

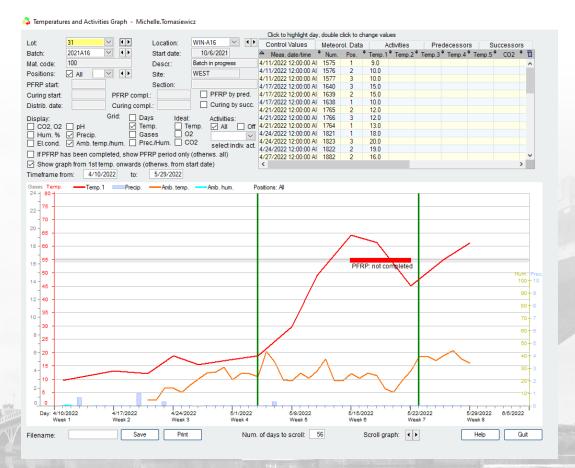


Seasonal Trends



Compost Depot Management Software

- Centralized software system that captures compost depot processing data
- Decision making tool for operations
- Meets regulatory tracking and record keeping requirements





Compost Depots



15,500 tonnes of organic waste dropped off in 2021



Compost Depots



Dig-Your-Own Program offered free finished compost to over 11,200 residents in 2021

Compost Sampling

- ➤ Compost Quality Alliance
- CCME Compost Quality Guidelines
- ➤ 3rd Party Laboratory Sampling
- ➤ Windrow Temperature Monitoring
- > Frequent Windrow Turning
- Windrow Watering





A Short History

1999/2000

Public dropoff began at the Landfill 2006

East Compost Depot on McOrmond Rd opened

2008

Landfill stopped accepting public drop-off organics material

2015

East Compost Depot opened on Highway 5

















2002

Public dropoff began at the east location

2007

Public dropoff and material processing facility opened on Highway 7 & 11th St

2014

Operations Vacated McOrmond Rd location due to residential development 2017

Expanded the West Compost Depot footprint

Contamination

➤ Prepare and implement a plan for odor management and control

Nuisance management and controls for dust, litter, noise and animals

Strong education program

Lessons Learned Importance of Water

- Water is a vital input for a successful composting operation
- ➤ Optimal moisture content of 40% to 60% by weight
- Saskatchewan climate introduces challenges

Lessons Learned Set Yourself Up For Success

- >Traffic flow
- > Water source
- > Expansion options
- ➤ Education & implementation plan
- ➤ Compost Council of Canada for resources
- Work with a mentor! Lots of resources available, no need to start alone

City-Wide Mandatory Organics Program



> Administration is preparing for program implementation in spring 2023

Citvof

- A 360 L (96 gal) cart size best fits the needs of the Curbside Organics Program
- > Bi-weekly collections for curbside organics and curbside waste
- ➤ Green Prairie Environmental will process organics using in-vessel technology

