

FACTSHEET

Waste Wise Cities Tool in Nairobi, Kenya



- Step 1: Preparation**
- Step 2: Household MSW Generation and Composition**
- Step 3: Non-Household MSW Generation**
- Step 4: MSW Received by Recovery Facilities and Control Level of Recovery Facilities**
- Step 5: MSW Received by Disposal Facilities and Control Level of Disposals Facilities**
- Step 6: Waste Composition at Disposal Facilities**
- Step 7: Calculating Food Waste, Recycling, Plastic Leakage, Greenhouse Gas Emissions and Air Pollution**

In the rapidly urbanizing world, the crisis in waste management and plastic pollution is a reflection of current unsustainable lifestyles.

The availability of fact-based data on municipal solid waste can guide evidence-based planning and lead to increasingly effective and efficient solid waste collection systems, enhanced local resource recovery and controlled waste disposal, thereby improving the quality of life for urban residents.

UN-Habitat's Waste Wise Cities Tool (WaCT) assesses the parameters for Sustainable Development Goal indicator 11.6.1 - the proportion of municipal solid waste collected and managed in controlled facilities out of total municipal solid waste generated, by the city. It consists of seven steps and provides the necessary data to support evidence-based decision making by city managers.

Together we can achieve a sustainable future.

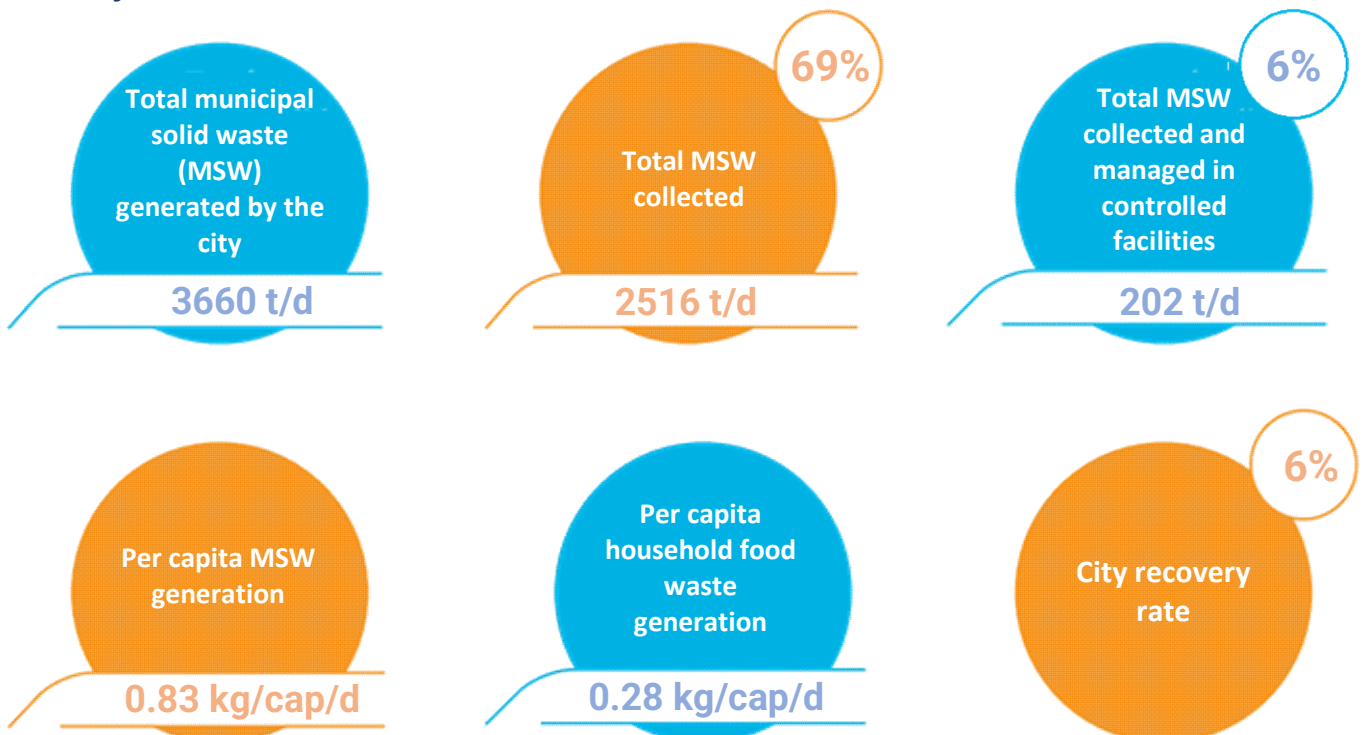
Have a look at the Waste Wise Cities website, learn about the WaCT and how its application created impact on the ground in other cities.

City **Nairobi**
Country **Kenya**

Population **4,397,073 (2023)**

Year of WaCT survey **2023**

Key Waste Data



Household and non-household waste generation



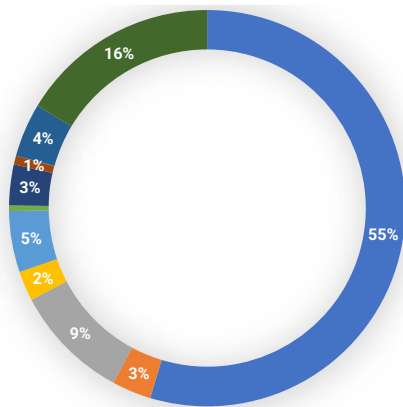
	Average household waste generation (kg/capita/day)	Total population	Total MSW generated by households (t/day)
Higher income	1.00	439,707	439
Middle income	0.49	1,319,122	652
Lower income	0.56	2,638,244	1,471
TOTAL	0.58	4,397,073	2,562



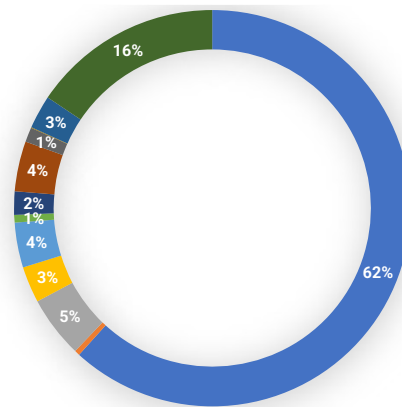
Total MSW generated from non-household sources (t/day) **1,098**
 calculated using proxy of 30% of total MSW

Composition of waste at the households and at the disposal site

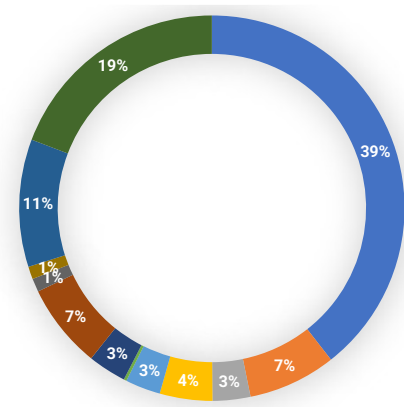
Household waste composition higher income areas



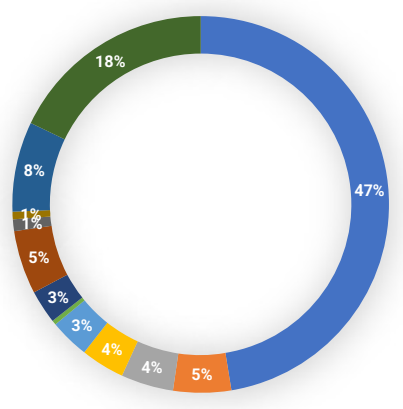
Household waste composition middle income areas



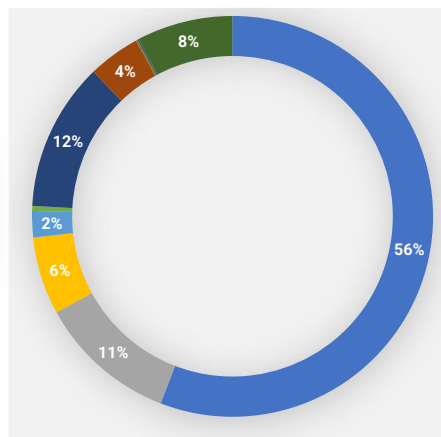
Household waste composition lower income areas



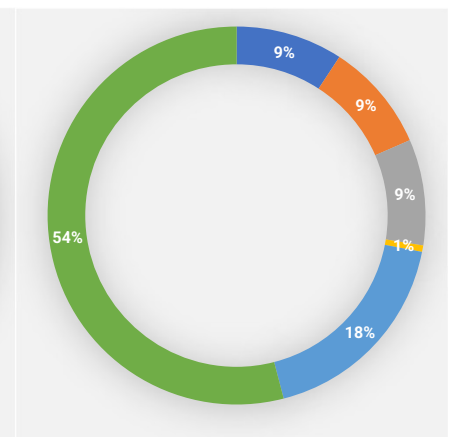
Average household waste composition



Waste composition at disposal site



Overall MSW composition Using WaCT -> WFD calculation



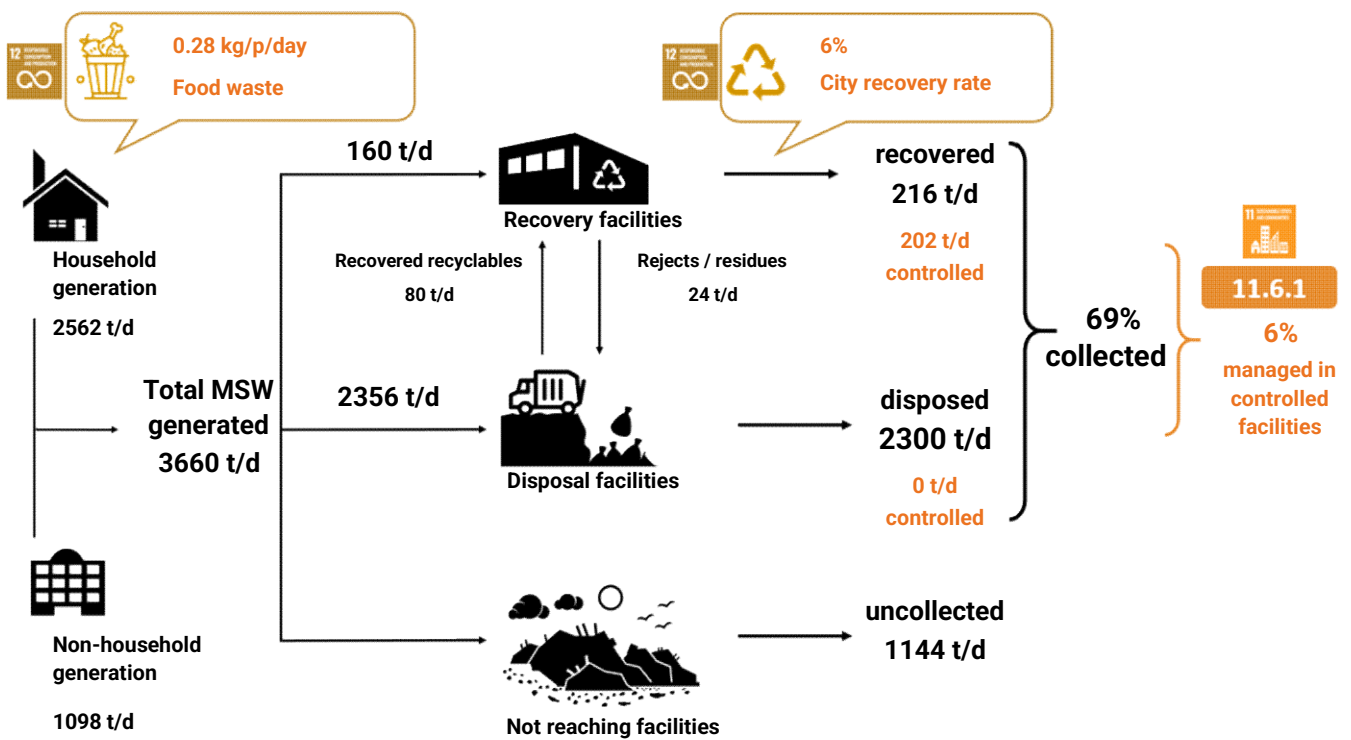
- Kitchen/canteen
- Garden/park
- Paper/cardboard
- Plastic film
- Plastics dense
- Metals
- Glass
- Textiles/shoes
- Wood (processed)
- Special wastes
- Composite products
- Other

- Paper
- Plastics
- Glass
- Metals
- Other
- Organic

Potential recyclables from households

Types	Recyclable waste generation from households (t/day)
Food waste	1214
Plastics dense	87
Plastic film	97
Paper and cardboard	115
Glass	74
Metal	10
Total	1,597

WaCT Flow Chart



For more info and if interested in WaCT application contact the Waste Wise Cities Team at

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