

FACTSHEET

Waste Wise Cities Tool in Kiambu County, Kenya



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: **Kiambu County**
Country: **Kenya**



Population:
2,417,735 (2019)



Year of WaCT Survey:
2020

Key Waste Data

**Total
municipal solid
waste (MSW)
generated by
the city**

1290 t/d

**Total
MSW collected**

667 t/d

52%

**Total
MSW collected
and managed
in controlled
facilities**

39 t/d

3%

**Per capita
MSW generation**

0.53 kg/cp/d

**Per capita
household food
waste generation**

0.27 kg/cap/d

**City
Recovery
Rate**

3%



Household and non-household waste generation



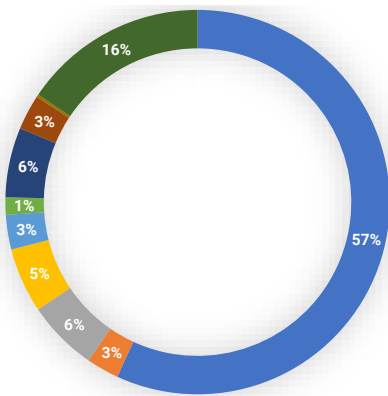
	Average household waste generation (kg/capita/day)	Total population	Total MSW generated by households (t/day)
High income	0.43	314,306	136
Middle income	0.39	846,207	328
Low income	0.35	1,257,222	439
TOTAL	0.37	2,417,735	903



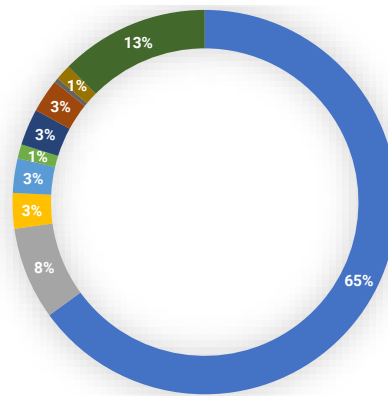
Total MSW generated from non-household sources (t/day): **387**
 calculated using proxy of 30 % of total MSW

Composition of waste at the households and at the disposal site

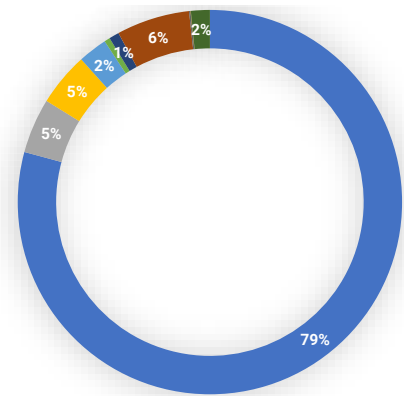
Household waste composition higher income areas



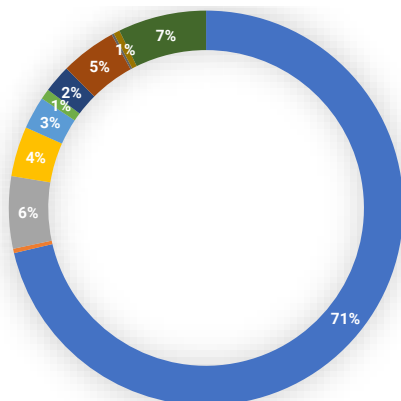
Household waste composition middle income areas



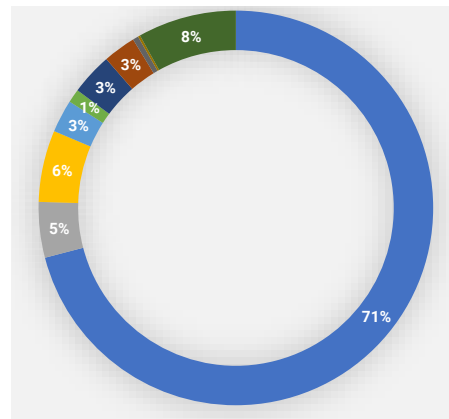
Household waste composition lower income areas



Average household waste composition



Waste composition at disposal site



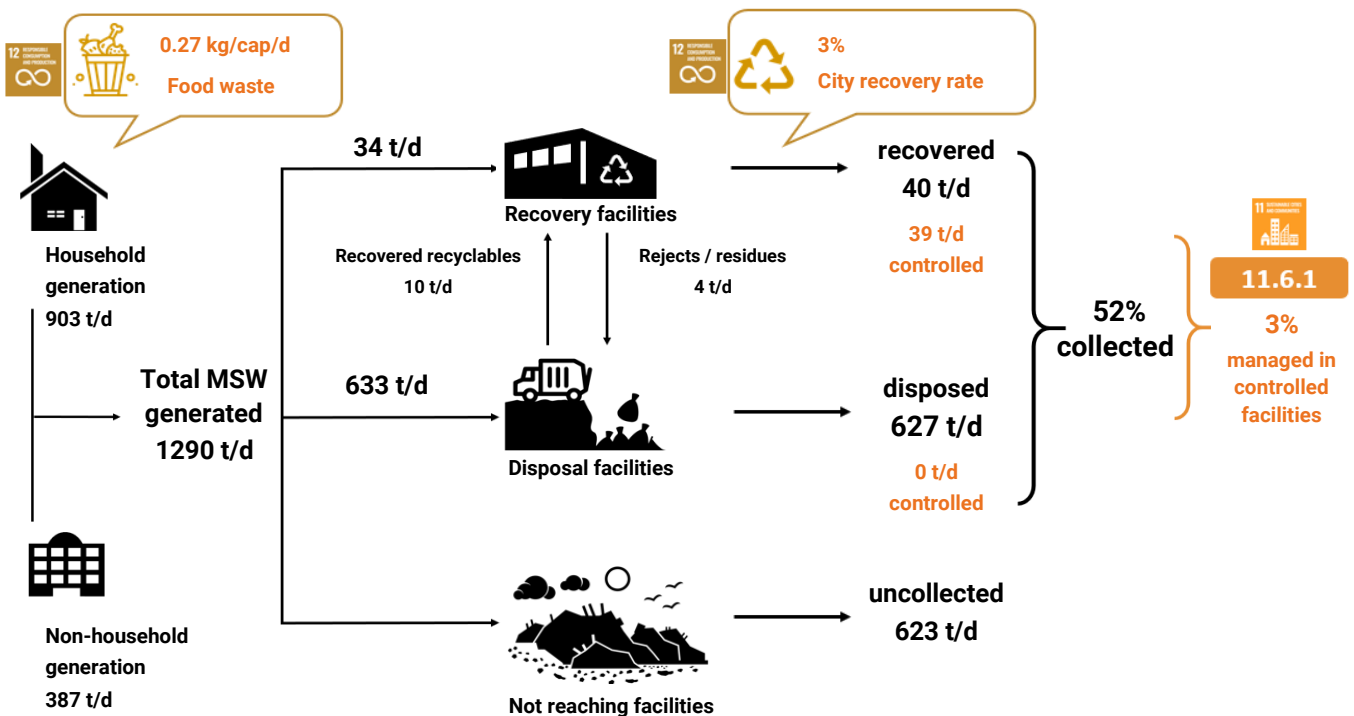
- Kitchen / canteen
- Garden / park
- Paper / cardboard
- Plastic film
- Plastics dense
- Metals
- Glass
- Textiles / shoes
- Wood (processed)
- Special wastes
- Composite products
- Other

Potential recyclables from households



Types	Recyclable waste generation from households (t/day)
Food waste	644
Plastic film	37
Plastic dense	24
Paper and cardboard	53
Glass	21
Metal	8
Total	828

WaCT Flow Chart



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

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FOR A BETTER URBAN FUTURE

**WASTE WISE
CITIES**



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