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.

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**City:** Homa Bay

**Country:** Kenya

**Population:** 199,280 (2020)

**Year of WaCT Survey:** 2023

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**Key Waste Data**

- **Total municipal solid waste (MSW) generated by the city:** 76 t/d
- **Total MSW collected:** 32 t/d
- **Total MSW collected and managed in controlled facilities:** 0 t/d
- **Per capita MSW generation:** 0.38 kg/cap/d
- **Per capita household food waste generation:** 0.11 kg/cap/d
- **City Recovery Rate:** 17%
Household and non-household waste generation

<table>
<thead>
<tr>
<th></th>
<th>Average household waste generation (kg/capita/day)</th>
<th>Total population</th>
<th>Total MSW generated by households (t/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>High income</td>
<td>0.26</td>
<td>19,928</td>
<td>5</td>
</tr>
<tr>
<td>Middle income</td>
<td>0.30</td>
<td>59,784</td>
<td>18</td>
</tr>
<tr>
<td>Low income</td>
<td>0.26</td>
<td>119,568</td>
<td>30</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>0.27</td>
<td>199,280</td>
<td>53</td>
</tr>
</tbody>
</table>

Total MSW generated from non-household sources (t/day) 23 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**
  - Kitchen / canteen: 20%
  - Garden / park: 5%
  - Metals: 4%
  - Glass: 4%
  - Composite products: 23%
  - Other: 7%

- **Middle income areas**
  - Kitchen / canteen: 38%
  - Garden / park: 3%
  - Metals: 3%
  - Glass: 38%
  - Composite products: 10%
  - Other: 2%

- **Lower income areas**
  - Kitchen / canteen: 41%
  - Garden / park: 8%
  - Metals: 3%
  - Glass: 23%
  - Composite products: 9%
  - Other: 3%

Average household waste composition
- Kitchen / canteen: 9%
- Garden / park: 6%
- Metals: 2%
- Glass: 40%
- Composite products: 27%
- Other: 7%

Waste composition at disposal site
- Kitchen / canteen: 21%
- Garden / park: 31%
- Metals: 3%
- Glass: 4%
- Composite products: 28%
- Other: 3%
Potential recyclables from households

<table>
<thead>
<tr>
<th>Types</th>
<th>Recyclable waste generation from households (t/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food waste</td>
<td>21</td>
</tr>
<tr>
<td>Plastic film</td>
<td>1</td>
</tr>
<tr>
<td>Plastic dense</td>
<td>2</td>
</tr>
<tr>
<td>Paper and cardboard</td>
<td>4</td>
</tr>
<tr>
<td>Glass</td>
<td>1</td>
</tr>
<tr>
<td>Metal</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>29</td>
</tr>
</tbody>
</table>

WaCT Flow Chart

For more info and if interested in WaCT application contact the Waste Wise Cities Team at WasteWiseCities@un.org