Appendix 5. Modelled Assumptions

Last property count 110,044 (May 2024) - based on LLPG data.

Housing type	Quantity	% of housing stock
Kerbside	87,202	79.24%
Communal	19,057	17.32%
Flats above shops	3,785	3.44%
Total	110,044	100.00%

Tonnage Assumptions for residual waste:

Total (t)	Houses (t)	Flats (t)
64424	60424	4000

General Assumptions

5% attrition rate per year on caddies and bins

Clean flats bins annually

25% of residents will request additional liners to be delivered (alternative option to follow other boroughs and make them available at libraries / community hubs)

Havering will deliver liners once a year (alternative option to follow other boroughs and make them available at libraries / community hubs)

Urbaser submission based on participation rate of 45% but need to aim for 70-80% and uplift costs accordingly, if further changes to service such as alternate weekly collections were to be introduced.

Household type	% food in residual waste	Expected participation rate	Tonnes food in residual waste	Expected tonnes of food captured for recycling	Average kg/hh/yr	Average kg/hh/ week *	Volume litres
H	44.50%	45%		12100			
A	39.30%	45%		10686			
Kerbside average	41.90%	45%	25318	11393	130.65	2.51	3.59
Flats	28.90%	30%	1156	347	15.18	0.29	0.42
All households average	41.09%	41.89%	26474	11089	100.77	1.94	2.77

Recycling Rate assumptions	
Total household waste (tonnes)	102,824
Tonnes of Household waste recycled / composted 2023/24	38,400
2023/24 household recycling and composting rate	37.35%
Food waste captured (estimate)	11740
Expected new household waste recycled / composted	**48.76%**
* 2023/24 data taken from www.wastedataflow.org	

* WRAP average 1.47kg/hh/wk, however Havering has higher than average waste production (nearly double the national average).

Communal properties

Households	19057
Blocks	1133
Average hh/block	16.82
Tonnes per year per block	0.31
Total kg/week/block	5.89
Food Waste Density kg/m3	700
Volume litres	8.41
180L or 240L bins per block (avera	1

Food waste density 700kg/m3

700kg food waste = 1m3 or 1000L

kg	L
700	1000
7	10
1	1.43

1.3 = Current average recycling bins per block

2.46 = Current average residual bins per development