Sustainable solutions for reducing food waste require a good understanding of food waste generation and composition, including avoidable and unavoidable food waste. We analysed 12 tonnes of residual household waste collected from 1474 households, without source segregation of organic waste. Food waste was divided into six fractions according to avoidability, suitability for home-composting and whether or not it was cooked, prepared or had been served within the household. The results showed that the residual household waste generation rate was 434 ± 18 kg per household per year, of which 183 ± 10 kg per year was food waste. Unavoidable food waste amounted to 80 ± 6 kg per household per year, and avoidable food waste was 103 ± 9 kg per household per year. Food waste mass was influenced significantly by the number of occupants per household (household size) and the housing type. The results also indicated that avoidable food waste occurred in 97% of the households, suggesting that most Danish households could avoid or at least reduce how much they generate. Moreover, avoidable and unavoidable food waste was more likely to be found in houses containing more than one person than in households with only one occupant.
Scopus rating (2011): CiteScore 2.99 SJR 1.694 SNIP 2.071
Web of Science (2011): Impact factor 2.428
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 1.553 SNIP 1.821
Web of Science (2010): Impact factor 2.358
Web of Science (2010): Indexed yes
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 1.519 SNIP 1.919
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 2
Scopus rating (2008): SJR 1.375 SNIP 2.145
Web of Science (2008): Indexed yes
Scopus rating (2007): SJR 0.998 SNIP 1.785
Web of Science (2007): Indexed yes
Scopus rating (2006): SJR 1.021 SNIP 1.819
Web of Science (2006): Indexed yes
Scopus rating (2005): SJR 1.065 SNIP 1.653
Scopus rating (2004): SJR 1.271 SNIP 1.911
Web of Science (2004): Indexed yes
Scopus rating (2003): SJR 0.853 SNIP 1.234
Web of Science (2003): Indexed yes
Scopus rating (2002): SJR 0.498 SNIP 0.903
Scopus rating (2001): SJR 0.45 SNIP 0.731
Web of Science (2001): Indexed yes
Scopus rating (2000): SJR 0.328 SNIP 0.444
Scopus rating (1999): SJR 0.26 SNIP 0.541
Original language: English
Keywords: Household food waste, Avoidable food waste, Unavoidable food waste, Food waste generation, Bootstrap and confidence interval
Electronic versions:
Food_waste_generation_and_composition_from_Danish_household_published_manuscript.pdf. Embargo ended: 18/05/2018
DOIs:
10.1016/j.wasman.2016.03.032
Source: FindIt
Source-ID: 2303129950
Research output: Research - peer-review → Journal article – Annual report year: 2016