

Pilot project on the use of organic waste bins with filter lids (TU

Chemnitz 2018)

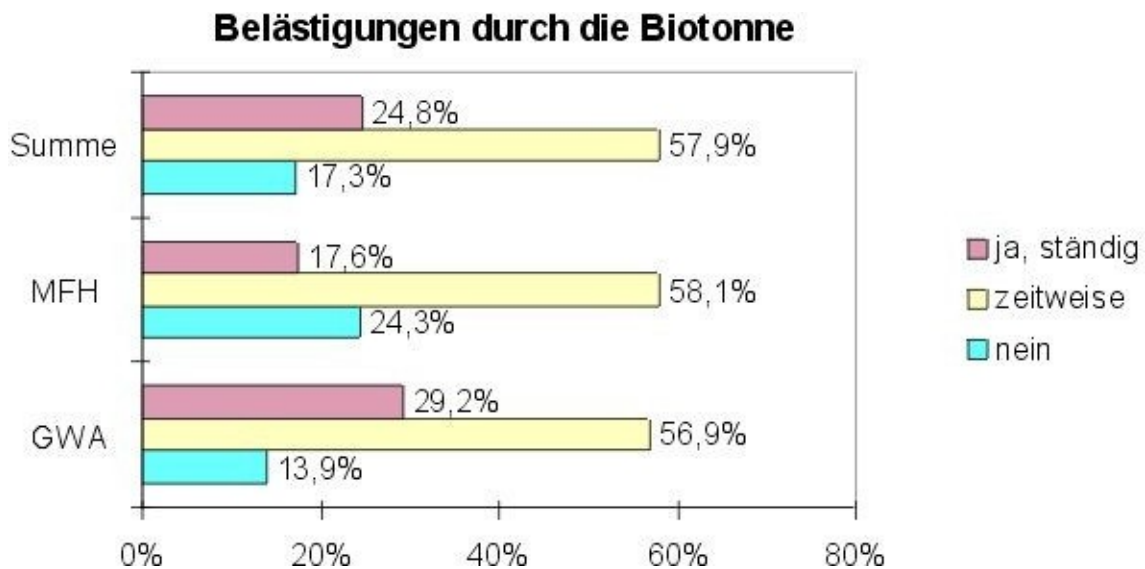
TARGET POSITION:

As the odour nuisance caused by organic waste bins is often cited by the population as a reason against separate collection, the existing organic waste bins at selected locations within the city of Chemnitz were replaced with bins of the same volume whose lids were fitted with an odour filter. The aim was to test whether these contribute to odour reduction in the vicinity of the organic waste bins. This was carried out at 34 locations, taking into account various settlement structures, with the focus on densely built-up areas, as experience has shown that this is where most odour nuisance problems occur.

RESULT:

A response rate of 30% was achieved in the survey at the end of the test period (August to November).

Before the filter lid was installed, 83% of respondents felt that the organic waste bin was a nuisance. In large residential complexes (GWA), constant nuisance was more common (29 %) than in apartment blocks (MFH - 18 %). Similarly, in apartment blocks, the statement that the organic waste bin does not cause any nuisance at all prevailed.

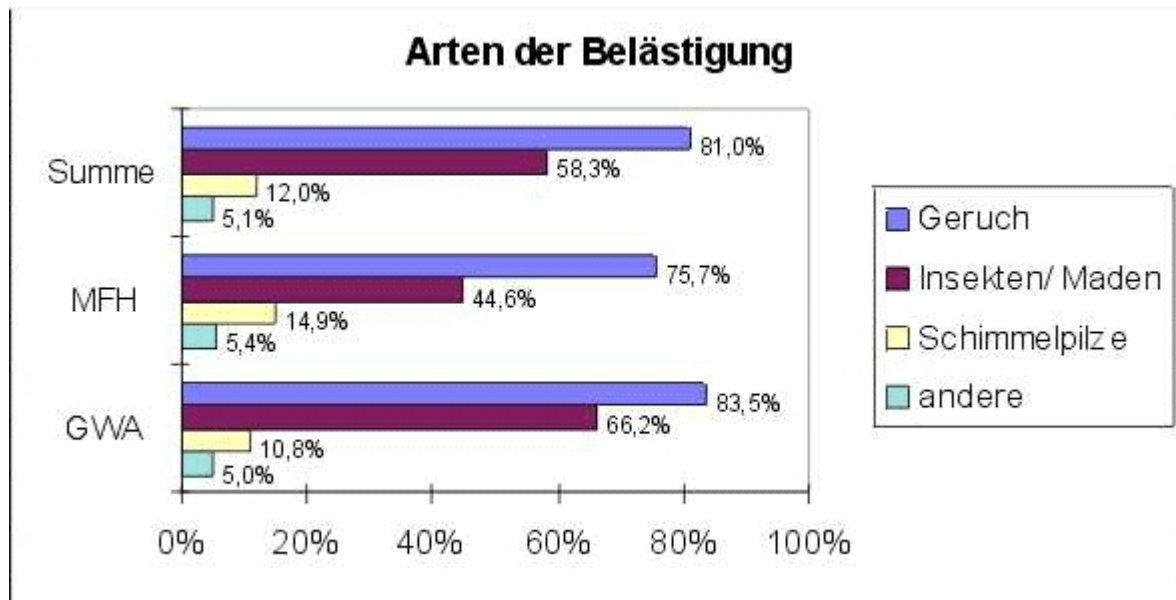


Nuisances caused by the organic waste bin

Prior to the use of the filter cover, odour was identified as the most common type of nuisance in both of the residential structures studied - large housing estates and apartment blocks.

mentioned. 89.5 % were of the opinion that this could be reduced by using the filter cover.

Insects and maggots are also a major source of nuisance. Here, 81% of respondents noted a reduction due to the filter cover, with no differences between large residential complexes and apartment blocks. Mould and other nuisances, such as accumulating moisture in the organic waste bins, represent a rather low potential source of nuisance. Only a slight reduction in these problems was observed with the use of the filter lid.



Types of harassment

Around 10 % of respondents stated that they now use the organic waste bin more frequently than before due to the filter lid. This applies to 14 % of residents in apartment blocks in city centre areas and 7 % of residents in large residential complexes. The proportion of non-users of organic waste bins fell to 1% overall. In apartment blocks, the organic waste bin is now used by everyone, although before the test, 4% of these households stated that they never used the organic waste bin. The use of this filter lid therefore leads to a certain degree of increased acceptance of the organic waste bin.