

# Modeling recovery rates of municipal waste using generalized linear models and beta regression

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The economic viability of waste management and environmental impact of these issues are of great interest today in most cities. There are a number of economic, social and cultural factors that determine the characteristics of the waste and the value of design parameters used in the calculations of a collection system (2). The aim of this work is to model the recovery rates of municipal waste in Spanish cities over 50,000 inhabitants. Different regression models to manage continuous proportion data are compared. Two kinds of variables can be considered: demographic variables and those related with the waste collection system. The regression models considered have been: Generalized linear models (3) with Binomial, Poisson and Gamma errors after several transformation on the data and Beta regression (1) on the raw data.

## References

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