Title:

Mathematical Modeling for predicting the generation of New York City Municipal Solid Waste

Abstract:

1. A large amount of municipal solid waste is generated in New York City.
2. The lack of accuracy of MSW prediction has resulted in improper planning and design of solid waste facilities.
3. In this study a mathematical model for predicting the MSW generation with data including socioeconomic parameters such as: population, income, number of household, household size, historical data of waste generation, as well as the effects of visitors from outside the city.
4. This new approach helps the planning and design of entire Municipal Solid Waste management for New York City.