

重庆市畜禽粪便年排放量的估算研究

Estimation of annual quantity of total excretion from livestock and poultry in Chongqing Municipality

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中文摘要:

畜禽养殖产生的粪便已成为我国农村面源污染的主要来源, 因而畜禽粪便的排放量也越来越引起人们的重视。通过对重庆市畜禽养殖业进行调查, 结合国内外有关研究, 确定重庆市畜禽粪便年排放量估算方法和各种估算参数。以2001年为基准, 估算出重庆市主要畜禽(猪、牛、羊、马、兔、家禽等)年粪尿排放量和粪尿中对环境产生污染的主要物质质量(有机质、氮、磷、钾), 以便对重庆市畜禽粪便污染作一个定量的认识。估算结果为重庆市2001年畜禽粪尿排放7421万t, 其中有机质为806万t, 氮42.5万t、磷21.48万t、钾44.98万t。该研究成果可为重庆市工农业生产布局 and 环境污染治理提供决策依据。

英文摘要:

The excrements from livestock and poultry have become the major source of nonpoint pollution in the rural areas of China. Hence, the annual amount of excretion has increasingly attracted people's attention. Based on the investigation of the livestock and poultry breeding husbandry in Chongqing and referred to home and abroad other researches, the approaches and parameters of estimation of annual quantity of total excretion was defined. On the basis of the data in 2001, the annual amount of excretion from the main livestock and poultry such as cattle, sheep, pig and goose, etc., and the pollutants from those excrements such as organic matter, nitrogen, phosphorus, potassium, etc. are estimated, which aims to quantify the excretion pollutants. The result of the estimation is as follows: in 2001, the gross of excretion from livestock and poultry in Chongqing is 74 210 000 tons. And in the excretion, there is organic matter 8 060 000 tons, nitrogen 425 000 tons, phosphorus 214 800 tons and potassium 449 500 tons. This research can be applied both in the industrial and agricultural layout and the environmental pollution control of Chongqing.

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