

广东省梅州市农地畜禽粪便环境风险评价

龚俊勇, 彭小珍, 廖新倮

华南农业大学动物科学学院

Risk Assessment of Livestock Manure in Meizhou Area of Guangdong

GONG Jun-Yong, PENG Xiao-Zhen, LIAO Xin-Di

College of Animal Science, South China Agricultural University

摘要

参考文献

相关文章

Download: [PDF \(521KB\)](#) [HTML 1KB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 采用排泄系数估算法计算2008年梅州市各县(区)各类畜禽的粪便产生量,并计算农地畜禽粪便最大负荷量,运用农地畜禽粪便承载预警值对该是畜禽养殖进行环境丰县评价。结果表明,2008年梅州市畜禽产生的污染量为:粪324.60万t,尿液180.02万t, BOD₅19.36万t, COD19.91万t, NH₃-N 2.423万t。梅州市农地畜禽粪便承载量平均为23.07 t·hm⁻²·a⁻¹, 畜禽托编承载预警值平均为0.51, 总体预警级别为II级, 对环境“稍有影响”, 但不同地区间存在差异, 丰顺县预警值最高, 平远县相对较低, 平远县畜禽研制尚有较大的发展空间。

关键词: 梅州市 畜禽粪便 风险评价

Abstract: The total volume of manures of all species of livestock in Meizhou was estimated using the excretion coefficient method, and the maximum animal manure loading capacity of the field was calculated, for environmental risk assessment of the industry based on pre-warning values of animal manure loading capacity of farm fields. Results show that the industry in Meizhou turned out 324.60×10⁴ t of excrement and 180.02×10⁴ t of urine, which included 19.36×10⁴ t of BOD₅, 19.91×10⁴ t of COD, and 2.423×10⁴ t of NH₃-N in 2008. The average livestock manure loading capacity of the field reached 23.07 t·hm⁻²·a⁻¹. The averaged livestock manure loading early-warning value was 0.51, which could be sorted into Grade II of the overall early-warning, corresponding to "slight environmental pollution". However, it varied from area to area. Fengshun County was the highest in early-warning value. Pingyuan County was much lower, thus giving the county much room for development of its livestock production.

Keywords: Meizhou area livestock manure risk assessment

Received 2010-11-29;

Fund:

广东省重大科技专项(2009A080303009);广东省农业攻关项目(2009A020101005)

Corresponding Authors: 廖新倮 华南农业大学动物科学学院 Email: xdliao2002@yahoo.com.cn

About author: 龚俊勇(1984-), 男, 湖北天门人, 硕士生, 主要研究方向为营养与生态。E-mail: gjy8303@163.com

引用本文:

龚俊勇, 彭小珍, 廖新倮. 广东省梅州市农地畜禽粪便环境风险评价[J] 生态与农村环境学报, 2011, V27(3): 25-28

GONG Jun-Yong, PENG Xiao-Zhen, LIAO Xin-Di. Risk Assessment of Livestock Manure in Meizhou Area of Guangdong[J] Journal of Ecology and Rural Environment, 2011, V27(3): 25-28

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

- ▶ 龚俊勇
- ▶ 彭小珍
- ▶ 廖新倮