## 生态与农村环境学报

ISSN 1673-4831 CN 32-1766 //X

## Journal of Ecology and Rural Environment

首页 | 期刊介绍 | 编 委 会 | 投稿指南 | 期刊订阅 | 联系我们 | English

生态与农村环境学报 » 2011, Vol. 27 » Issue (5):32-36 DOI:

自然保护与生态

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

基于GIS技术及模糊物元分析法的南京市仙林新市区生态安全评价

郝敬锋, 刘红玉, 胡和兵, 安静

南京师范大学地理科学学院

Eco-Securith Assessment of Xianlin New Urban District of Nanjing, China, Using GIS Technology and Fuzzy Matter Element Analysis

HAO Jing-Feng, LIU Hong-Yu, HU He-Bing, AN Jing

College of Geography, Nanjing Normal University

摘要

参考文献

相关文章

Download: PDF (2213KB) HTML 1KB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 运用压力一状态一响应模型和层次分析法构建生态安全评价指标体系,综合运用GIS技术及模糊物元分析方法对南京市仙林新市区建设前后(2003和2007年)的生态安全状况进行评价。结果表明,2003-2007年,仙林生态安全状况主要向2个方向发展,生态安全和不安全区域面积均有所增加,占区域总面积比例分别由9.6%和12.9%增加至22.3%和15.0%。由于各区域发展模式不同,生态安全状况区域差异明显。具体表现为仙鹤片区与白象片区生态安全区域面积明显增加,占研究区总面就比例分别由2.6%和3.9%增加至10.1%和9.3%;麒麟片区生态安全状况以临界安全为主,部分片区由临界安全状态向较安全状态转化;青龙片区生态安全状况变化不大。

关键词: GIS 生态安全 模糊物元分析 压力-状态-响应模型

Abstract: An eco-security assessment index system was established, using a pressure-state-response (P-S-R) model and the analytic hierarchy process, while eco-security levels of Xianlin District before (2003) and after (2007) its construction were assessed using the GIS technology and the fuzzy matter element analysis method in a comprehensive way. The ecological security in the Xianlin New Urban District in Nanjing was evaluated. It was found that the ecological security level of Xianlin developed in two directions. The areas of both the eco-safe zone and the eco-unsafe zone increased with their proportion did from 9.6% to 22.3%, and from 12.9% to 15.0%, respectively, in the period of 2003-2007. The Qilin Subdistrict was almost at the threshold of eco-security and some others were developing from the threshold status to relatively safe one. The Qinglong Subdistrict remained almost unchanged.

Keywords: GIS ecological security fuzzy matter-element analysis pressure-state-response model (P-S-R)

Received 2011-02-24;

Corresponding Authors: 刘红玉 南京师范大学地理科学学院 Email: liuhongyu@njnu.edu.cn

About author: 郝敬锋(1984-),男,江苏沛县人,博士生,主要从事城市湿地生态系统及遥感/GIS应用研究。E-

mail: haojingfeng365@163.com

引用本文:

郝敬锋, 刘红玉, 胡和兵, 安静.基于GIS技术及模糊物元分析法的南京市仙林新市区生态安全评价[J] 生态与农村环境学报, 2011, V27(5):32-36

HAO Jing-Feng, LIU Hong-Yu, HU He-Bing, AN Jing. Eco-Securith Assessment of Xianlin New Urban District of Nanjing, China, Using GIS Technology and Fuzzy Matter Element Analysis [J] Journal of Ecology and Rural Environment, 2011, V27(5): 32-36

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

- ▶郝敬锋
- ▶ 刘红玉
- ▶ 胡和兵
- ▶ 安静

Copyright 2010 by 生态与农村环境学报