

基于DPSIR的吉林省白山市生态安全评价

张继权^{1**}, 伊坤朋¹, Hiroshi Tani², 王秀峰², 佟志军¹, 刘兴朋¹¹东北师范大学城市与环境科学学院自然灾害研究所, 长春 130024; ²北海道大学农学研究院, 日本札幌 060-8589

Ecological security assessment of Baishan City in Jilin Province based on DPSIR.

ZHANG Ji-quan¹, YI Kun-peng¹, Hiroshi Tani², WANG Xiu-feng², TONG Zhi-jun¹, LIU Xing-peng¹¹Research Institute of Natural Disaster, College of Urban and Environmental Sciences, Northeast Normal University, Changchun 130024, China|²Research Faculty of Agriculture, Hokkaido University, Sapporo 060-8589, Japan

- 摘要
- 参考文献
- 相关文章

全文: PDF (950 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要

通过对白山市的生态安全现状和问题进行分析, 探究其生态环境改变的主要驱动力因子和胁迫因子; 基于DPSIR模型提出了白山市生态安全综合评价指标体系, 并进一步构建了适于山地地区的生态安全评价模型; 利用1989年、1999年和2006年的3期TM遥感影像, 结合研究区的DEM数据和实地调查数据建立解译标志, 对白山市土地覆被进行景观分类, 借助Fragstats分析景观指数, 提取重要的生态安全评价指标, 对白山市所辖各区县进行生态安全综合评价. 结果表明: 白山市生态安全的空间差异显著, 整体生态安全状况呈现出一种恶化趋势, 人为活动对地表景观格局和物种栖息地分布产生了深刻的影响, 已成为生态安全格局变化的主要驱动力因子.

关键词: 生态安全评价 DPSIR 生态安全指数 吉林省 白山市

Abstract:

This paper explored the main driving forces and stresses contributing to the eco-environmental changes of Baishan City in Jilin Province, through the analysis of the ecological security problems in the City. The framework of DPSIR was applied to establish an ecological security assessment index system, and further, to create an ecological security assessment model suitable for mountain areas. By using the 1989, 1999, and 2006 TM images, and in combining with the DEM data and field survey data, the interpretation of the land cover in Baishan City was conducted, and the landscape classification was carried out. With the support of Fragstats, the important ecological indicators were extracted. Then, the situations of ecological security in various districts and counties of Baishan City were assessed. The results indicated that there was an obvious regional difference in the ecological security of Baishan City, with a deteriorating trend of the overall ecological security situation. Human activities had deeper influence on the land cover pattern and species habitat distribution, and even, became the main driving force of the pattern changes in ecological security.

Key words: ecological security assessment DPSIR ESI Jilin Province Baishan City

引用本文:

. 基于DPSIR的吉林省白山市生态安全评价[J]. 应用生态学报, 2011, 22(01): 189-195.

. Ecological security assessment of Baishan City in Jilin Province based on DPSIR. [J]. Chinese Journal of Applied Ecology, 2011, 22(01): 189-195.

链接本文:

<http://www.cjae.net/CN/> 或 <http://www.cjae.net/CN/Y2011/V22/I01/189>

没有本文参考文献

[1] . 新疆玛纳斯河流域绿洲生态安全评价[J]. 应用生态学报, 2009, 20(09): 2219-2224.

服务

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

作者相关文章