

## 南充城市扩展中的景观生态安全格局

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Landscape ecological security pattern during urban expansion of Nanchong City.

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## 摘要

基于景观生态安全格局理论和RS、GIS技术,选择地形条件、洪水危害、土壤侵蚀、植被覆盖、地质灾害和生物保护6个要素作为城市空间扩展的生态约束条件,分析了南充市的生态安全等级分布,依据最小积累阻力模型,构建了生态廊道和生态节点等来加强生态网络的空间联系,在保障生态安全的基础上对城市合理的扩展趋势以及空间布局的优化进行分析.结果表明:南充市市域范围内整体生态安全状况较好,低生态安全水平区域较集中地分布于市区南部的嘉陵江下流区域和城郊西部山地;生态要素是南充市城市空间未来扩展的重要制约条件;南充市东部、北部存在发展空间,以卫星城镇模式增长可最大程度地保证南充市的生态安全.

关键词: 生态安全 景观格局 城市扩展 南充市

## Abstract:

Based on the theory of landscape ecological security pattern and the RS and GIS techniques, this paper analyzed the distribution of ecological security grades in Nanchong City, taking six elements including terrain condition, flood hazard, soil erosion, vegetation cover, geological disaster, and biological protection as the ecological constraints (or determinants) of urban expansion. According to the minimum cumulative resistance model, the ecological corridors and ecological nodes were built to strengthen the space contact of ecological network, and, on the basis of the protection of ecological safety, the reasonable trend of urban expansion and the optimization of space layout were investigated. The results showed that the ecological security of Nanchong City was quite good, with the regions of low ecological security mainly distributed in the west suburban mountains and the downstream region of Jialing River in the south of the City. Ecological elements were the most important constraints for the future expansion of urban space. There were more spaces for the urban expansion in the southern and northern parts of Nanchong City. To develop satellite towns would be the best selection to guarantee the ecological security of the City.

Key words: ecological security landscape pattern urban expansion Nanchong City

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