

基于景观指数的当阳市半月镇土地利用格局分析

摘要

土地利用是人类通过劳动与土地结合获得物质产品和经济收获的活动。中国地大物博，不同地区的土地利用结构、土地利用的方式和程度等都大不相同。因此，通过分析某个典型区的土地利用格局，对于其周边地区土地利用的安排具有一定的建议性，拥有重要的现实作用。本文以湖北省当阳市南部的半月镇为例，基于景观生态学角度，利用景观指数分析其土地利用景观格局，以为当阳市其他乡镇的农业发展以及土地合理利用提供一定建议。

具体工作以当阳市半月镇分辨率为 5 米的谷歌卫星遥感影像图作为数据基础，采用 ARCGIS 软件和景观生态学研究格局指数的分析方法，对研究区的土地利用格局进行分析。

根据对景观指数的计算处理和分析，得到以下结果。半月镇景观类型丰富，土地利用类型多样，耕地为半月镇的优势斑块，但其优势度并不明显。园地、林地及水域及水利设施用地也是半月镇景观的重要组成部分，但由于研究区沟渠纵横，因此水域及水利设施用地的破碎化程度极高。公共管理与公共服务用地、工矿仓储用地、商服用地、特殊用地不是半月镇的主要用地类型。从形状来看，半月镇所有斑块形状均比较简单，耕地、园地和林地这三种地类基本成片存在，交通运输用地分布疏散。结合半月镇土地利用格局的特点，考虑从提高耕地质量、调整撤并分布散乱的自然村、开发未利用地、增加建设用地这 4 个方面来对半月镇的土地利用格局进行优化。

关键词：GIS；半月镇；景观指数；土地利用格局

Abstract

The use of land is the human activity obtaining material products and economic gains through the combination of labor and the use of land. The structure of the land use and the way of the land use in China is different in different region. Therefore, by analyzing the land use landscape pattern of a typical area, it has certain suggestions for the arrangement of land use in its surrounding areas and has important practical effects. The banyue town is in the south of Dangyang City, Hubei Province. Taking it as an example, this paper uses the landscape index to analyze its land use landscape pattern based on landscape ecology, in order to provide some suggestions for the agricultural development and rational use of land in other towns and towns of Dangyang City.

The specific work is based on the Google satellite remote sensing image map with a resolution of 5 meters in Banyue Town, Dangyang City. The ARCGIS software and the landscape ecology research pattern index analysis method are usually used to analyze the land use landscape pattern of the study area.

According to the calculation and analysis of the landscape index, the following results were obtained. The semi-month town has a rich landscape type and diverse land use types. The cultivated land is the dominant plaque of Banyue Town, but its dominance is not obvious. The land for gardens, woodlands and waters and water conservancy facilities is also an important part of the landscape of Banyue Town. However, due to the vertical and horizontal ditches in the study area, the degree of fragmentation of waters and water conservancy facilities is extremely high. Public management and public service land, industrial and mining storage land, commercial land, and special land use are not the main land types of Banyu Town. From the shape point of view, the shape of all plaques in Banyue Town is relatively simple. The three types of land such as cultivated land, garden land and woodland are basically in pieces, and the distribution of transportation land is scattered. Combined with the characteristics of the land use pattern of Banyue Town, we will optimize the land use pattern of Banyue Town from four aspects: improving the quality of cultivated land, adjusting and dismantling the scattered natural villages, developing unused land, and increasing construction land.

Keyword: GIS; banyue town; Landscape index; Landscape pattern

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。

如要下载或阅读全文，请访问：

<https://d.book118.com/616214023201011004>