

# Land Use Conflict and Optimization based on Ecological Security

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## Abstract

**With the rapid development of industrialization and urbanization, the number of population has risen sharply, and the high-intensity agricultural production and development and construction activities have gradually invaded ecological safety space. Soil and soil erosion, biodiversity sharp decline, etc. Ecological environment, the contradiction between the development and protection and the conflict and the reality of the rapid expansion of land resources are serious, and the problem of land use conflicts has become an important factor in hindering regional development. one.**

## Keywords

**Ecological Security; Land Use; Optimization.**

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## 1. Introduction

Land resources is a valuable resource of human dependence and development, and is an important factor in protecting regional economic development and social stability. In the context of rapid urbanization, the population has greatly increased, the demand for land is gradually increased, and the development of land resources is developing, the space resources are uneven, the land use mode is not reasonable, and the problem is increasingly severe, while the soil loss Ecological safety issues such as biodiversity and other ecological safety issues, the limitedity of land resources and the infiniteness of human demand, leading to contradictions and opposition of different interests on land use allocation, land use conflicts thereby produced. While urbanization and industrial development, land use conflicts have a serious impact on the sustainable use of land resources and regional coordination development, and the lack of land use conflict is not retracted.

In the 19th National Report, "People and Natural Harmonious Symbolic" The concept of "people and natural harmony" makes urban development focuses on the promotion of economic development needs "to ensure" land ecological safety ". With the rapid growth of ecological space demand, there has been a huge contradiction between socio-economic development and ecological environment protection, directly reflected in competition and conflicts between agricultural production land and urban construction land and ecological safety space. Therefore, there is an important way to become an important way to effectively identify conflict in the region of land use conflict and promote the healthy development of regional ecological environment.

## 2. Significance of optimization of ecological security land use

Based on ecological security perspective, regional land use conflict recognition research, the cultivation of people's relationships as an entry point, constructing land-use conflict recognition classification system, helps to broaden the content and scope of land use, rich and improved land use conflict The research system provides new ideas for land use conflict research. At the same time, on the basis of land use conflict recognition, explore conflict partition methods and optimization regulatory measures, broaden land use partition perspectives, which can effectively provide theoretical reference for the prevention and treatment of land use conflicts. Through land use conflicts, the study of the subregional optimization and regulatory management research will help land resource

pressure and human contradiction, promote the coordinated development of regional ecological protection and socio-economic development, and provide decisions for land development and management. support. At the same time, it is also possible to provide practical reference for similar land use conflict analysis.

### **3. Land use conflicts under ecological security**

The construction of ecological security patterns is an important guarantee for maintaining regional ecological environment, which can effectively alleviate the contradiction between ecological protection and socio-economic development. With the rapid development of society, human beings have gradually turned to green health and ecological security. Discussion on the distribution of land use conflicts from the perspective of ecological safety. During the development of the use of land resources, the contradiction between the social and economic development and the contradiction between the social and economic development and the contradiction between major human economic activities such as agricultural farming, development and construction, and the non-harmonious space relationship between the social and economic development and the spatial relationship between social and economic development and ecological security maintenance. Specifically, it is a cultivated land, and the unreasonable occupancy of ecological safety space is used. Among them, the ecological safety space refers to the main ecological service function, and the core carrier of the external human activity has a large sensitivity is an important resource for maintaining and stabilizing regional ecological balance. Ecological safety space is intuitive and reflected in the ground, mainly forest land, waters, gardens, and grassland.

### **4. Land use conflict identification and partition**

With the gradual acceleration of urbanization and industrialization, human beings must have increased significantly, considering the limited number of land uses, will trigger contradiction between land use structure and regional ecological security and opposition issues. . On the one hand, urban expansion requires a lot of construction space to maintain regional population and economic development level, which will lead to competition between construction space and ecological safety space; on the other hand, the people are in the sky, the rapid growth of the population is bound to Start food security issues, thereby causing conflicts between food production space and ecological safety space. Define land use conflicts as cultivated land, construction land, comprehensive land use conflict three types, cultivated land, construction land, refer to food production, urban construction activities on ecological safety space, comprehensive land use conflict is the conflict between cultivated land and construction Summary of superpositions. With the acceleration of population growth and the speed of urban expansion, the unreasonable occupational occupation of ecological safety space is prominent, and human activities exceed the normal load of land resources, the contradiction between the land use conflict between ecological security space and various types. serious. In general, the high-level occurrence area of land use conflict is mainly distributed in the complex ecological fragile area of land use types, economic and demographic development; low-grade region of land use conflict is mainly distributed in simple, low-end economies of human activities Area.

The purpose of carrying out land-use conflict partitions is to highlight the dominant ecological function and land utilization conflict types in various regions, and make an enlargement advantage and reduce disadvantages. According to the regional leading ecological function, conflict type and grade to propose targeted optimal regulation recommendations for each partition to achieve reasonable allocation and optimization of regional land resources, and ensure regional ecological security. The research of land use conflict partitioning is determined, and it is finally divided into two zoning levels. The first-level partition is mainly partitioned by the geomorphology type of the research area, while considering the restrictions on administrative divisions. Secondary partition compliance with the leading factor, according to human domain leading to economic activity land type, water source intensive function, soil and water conservation function, biodiversity protection

function, soil loss sensitivity, geological disaster sensitivity, land use conflict intensity 7 factors as secondary Partition basis.

## **5. Land use conflict optimization measures**

### **5.1 Cultivated land - biodiversity protection mild conflict area**

Key points to maintain regional ecological quality, prohibiting the deforestation, strengthen the construction of forest parks and nature reserves, maintain species habitat space, and enhance regional biodiversity protection. Protect quality cultivated land, banned the reclamation of slope cultivated land, and optimize the level of cultivated land using land remediation project, improve regional agricultural production function, and actively promote the development of modern agriculture, build modern agricultural parks, accelerate regional agricultural economic development. Carry out rural residential reclamation reinforcement projects, considering the reclamation of soil texture and ecological level in the region, give priority to the rejection of ecological land such as rural residential points to soil and soil; guide dispersed remote villages to the central village, town concentration, and optimize The entire area residential spatial pattern.

### **5.2 Cultivated land - Soil and fluorescent moderate conflict area**

Improve ecological protection and repair measures, add grass protection, actively promote the implementation of regional returning farmland to forests and Fengshan Yulin project, strictly restrict the occupation of slope cultivated land development and human construction activities to ecological space; increase the area of regional vegetation coverage Reduce the intensity of soil. Optimize land use and industrial development structure, increase land remediation efforts, and provide an opportunity for regional industrial economic development while improving cultivated land production capacity. Develop ecological agriculture and specialty agriculture, through the increase of organic fertilizer, improve cultivated land quality, reduce pesticide pollution; optimize the construction level of regional water conservancy facilities, design reasonably furnished flooding mode to promote agricultural modernization and scale operation. Strengthening the management of regional mineralization, integrated biological and chemical methods to reduce environmental pollution levels in the surrounding area. At the same time, it is carried out the rectification project of the waste mine area, prioritizing its reclamation to woodland, fruit trees to achieve the purpose of maintaining regional ecological environments.

### **5.3 Cultivated land + construction land - water source cultural severe conflict**

Strictly control the expansion rate and scale of urban and rural construction, adhere to the connotation diverting, optimize the construction site spatial pattern, and reduce its occupation of ecological security space. Increase regional forest land, slope farmland protection repair strength, enhance regional vegetation coverage, enhance water and soil retention; strengthen regional wetland protection measures, increase water conservation forest construction, strengthen the construction of overall water source of Qinglong County. Increase the construction of water conservancy facilities, enhance irrigation level; control the use standards of pesticide fertilizers, reduce environmental pollution; standardize cultivated land development policies, strengthen the level of agricultural mechanization, and promote the improvement of agricultural productivity and green development. Implementing the remediation of rural residential points and industrial and mining land, achieving centralized development of population living districts, and can give priority to rural residential points to reclaimed cultivated land, reissue to forest land, orchard, meet under the conditions of regional ecological security Food demand.

## **6. Conclusion**

In summary, the management and regulation of land use conflicts is a complex work. It is widely involved in regional natural resource conditions, location factors and industrial structures, etc. In the future, it should improve the land use conflict partition method system, promote The partitioning

method is scientifically, objective, and thus becomes more objective and comprehensive regulation and management measures in the perspective of land use, industrial development model, ecological infrastructure.

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