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Land use policy of agroforestry: Case study of protected area changes in sekaroh forest, east lombok west nusa tenggara

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Abstract

The condition of existing forest use in Sekaroh, East Lombok is dominated by forest change function to increase the production of corn, leading to the massive deforestation. The research is to analyze the deforestation and land use conversion in Sekaroh, East Lombok. It is also to analyze local government policies in facing the rampant conversion of forest function to corn plantations in East Lombok. The research was conducted using the socio legal method with a qualitative approach with evidence-based data analysis to demonstrate the deforestation and economic interest of corn production in local level. The results showed that forest protection is part of forest management which falls under the authority of the central government and local governments. The implementation of forest protection aims to protect the forest area and its environment so that the protection function, conservation function and production function can be achieved optimally and sustainably. Moreover, the policy also needs to consider the limited production forest and geographic conditions in local context considering that the function of production forest is limited to maize plantations. ©2021 by authors, all rights reserved.

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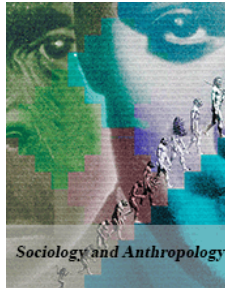
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Abstract The condition of existing forest use in Sekaroh, East Lombok is dominated by forest change function to increase the production of corn, leading to the massive deforestation. The research is to analyze the deforestation and land use conversion in Sekaroh, East Lombok. It is also to analyze local government policies in facing the rampant conversion of forest function to corn plantations in East Lombok. The research was conducted using the socio legal method with a qualitative approach with evidence-based data analysis to demonstrate the deforestation and economic interest of corn production in local level. The results showed that forest protection is part of forest management which falls under the authority of the central government and local governments. The implementation of forest protection aims to protect the forest area and its environment so that the protection function, conservation function and production function can be achieved optimally and sustainably. Moreover, the policy also needs to consider the limited production forest and geographic conditions in local context considering that the function of production forest is limited to maize plantations.

Keywords Land Use Policy, Natural Resources Management, Deforestation, Agroforestry, Law Enforcement

1. Introduction

Forests as part of national natural resources have an important role in various aspects of economic, social and environmental life [1 -3]. In an international agreement, it is stated that forests, which have an important function for the life of the world, must be developed and protected from various damages to the world's ecosystems. Development on renewable natural resources must be managed in such a way that the main function of the forest can always be maintained [4]. Non-renewable natural resources should be used as economically as possible with the most optimal results. Forestry development to increase forest utilization for Indonesian domestic industries must generate added value and create jobs. On the island of Lombok, West Nusa Tenggara (NTB), many protected forest areas have turned into corn plantations. The production forest area is part of the cultivation area, namely limited production forest and permanent production forest. In protected forest, there is a high forest function change with a percentage above 50%, based on latest data from NTB Agriculture and Plantation Office (Table 1).

Table 1 showed that protected forest areas with an area of 15,881.65 hectares are scattered in East Lombok-NTB Regency. From data from the NTB Agriculture and Plantation Office, in 2014, the corn area was 126,577 hectares. It significantly increased to 310,990 hectares and production of 2,127,324 tons in 2017. In 2018, the

The Level of Ecological and Hydrobiological Indicators in the Cheboksary Reservoir

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Abstract The paper assesses the ecological state of the Cheboksary reservoir based on the criteria of the total abundance, biomass, and species diversity of phytoplankton, zooplankton, and benthos. During the study period, no significant changes in the indicators of the development of algal communities, their distribution over the water area of the reservoir were noted. The average phytoplankton biomass for the reservoir turned out to be in the dynamic norm, the trophic status was assessed as eutrophic; The revealed ratios of the leading systematic groups of planktonic algae and the composition of cenoform species had also been in the previous years of the study. According to the level of the saprobity index, all sampling stations belong to class III (moderately polluted waters). The benthos of the reservoir was also characterized by sufficient diversity with the dominance of mollusks and chironomid larvae in the taxonomic composition. Thus, despite the presence of a certain anthropogenic impact on the water area of the Cheboksary reservoir, its hydrobiological state remains satisfactory, which is determined by a wide buffer limit to the level of pollution of the water body.

Keywords Artificial Reservoir, Hydrobiological Properties, Ecological State of a Water Body

1. Introduction

Due to the uneven location of rivers, lakes, and other hydrological objects on the Earth's surface, artificial reservoirs have become a common planetary phenomenon. These include various ponds, canals, reservoirs, filtration reservoirs, and other objects that have any unique economic and/or biospheric importance. The main purpose of creating reservoirs is to accumulate water with its subsequent use. In addition, the reservoir, as an artificially created water body, has a strategically significant function in the national economic sectors and the ecological biosphere plan [1].

The construction of regulating reservoirs provides an opportunity to partially or completely eliminate the conditions for the occurrence of such adverse events as floods and high water. At the same time, in addition to reducing direct damage from them, the costs of construction and reconstruction of capital objects in various sectors of the economy are also reduced due to the reduction of flood control costs. The creation of reservoirs solves the problem of water shortage in certain regions and also solves the reclamation problem of water supply following the most optimal timing of irrigation for crops. Reservoirs are ubiquitous sites for organizing fisheries. Commercial fish species (bream, pike perch, etc.) are often grown in artificial reservoirs. Besides, initiatives are taken