

丘陵谷地果草鱼鸭开发模式的功效研究

Function and Profit of Citrus-Forage Grass-Freshwater Fish-Duck Developing Model in Hilly-Gully Area

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中文摘要:

应用生态学原理,根据丘陵谷地的立地条件,建立了果草鱼鸭开发模式,通过定位观测探讨了该模式在丘陵山地资源开发与生态环境保护中的功效。研究表明,该开发模式可显著提高幼龄果园的植被覆盖度,较明显改善盛夏果园小气候条件,显著改善土壤养分状况、透水通气性和持水性能,水土流失明显减弱。该开发模式可促进系统内物质和能量的循环利用与转化,提高资源的利用率,减少化肥投入,试验区的单位产值和纯收益均显著提高,取得显著的经济、社会和生态效益。

英文摘要:

By the principle of ecology, the citrus-forage grass-freshwater fish-duck developing model was established based on the resource and environmental condition of suburban hilly-gully area. The function and profit of the model in hilly resource exploitation and ecologic environment protection were discussed by the data of location observation. The results showed the model could increase the cover-degree of young orchard, improve climatic condition within the orchard in summer, raise soil nutrient content, aeration, water penetration and conservation obviously. Water and soil loss in the orchard was much weakened. This model could also promote the circulation of material and energy within the ecosystem, increase the utilization ratio of natural resources and reduce the use of fertilizer in the system. The output value and profit per hectare in the experimental area were notably increased. By using this model, marked economic, social and ecologic profits could be achieved.

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