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湖南山地即时水库防洪体系——体系的建立及其生态服

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Title: Previsional flood-preventing reservoir system for hilly areas in Hu'nan; establishment of system and its ecological service function

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摘要: 针对湖南丘陵山区近年频繁发生严重山洪灾害的实况,从流域生态安全的角度,提出了在山区修建即时水库用于防洪的构想,即在山上大面积修建蓄积雨水的梯库和在山间截溪截河分级分段广泛修建用于蓄积洪水的拦水坝,通过延缓洪水下泄的时间和控制洪水的范围,达到有效防御和减轻山洪灾害的目的,分析了即时水库体系所具有的生物多样性保护、调整水资源时空分布和防御水旱灾害等生态服务功能。

Abstract: According to the fact that flood disaster took place frequently in hilly areas of Hunan Province in recent years, this paper put forward the conception of building previsional reservoir in hilly area for ecological safety of the valley, in other words, building great area terrace-reservoir to accumulate rainfall on the hill and widely establishing dam to intercept flood in rivulet and river. This project could prevent and decrease mountain flood disaster through delaying the flooding time and reducing inundated area. At last, the author analyzed the ecological service functions of previsional reservoir such as biodiversity protection, spatiotemporal distribution adjustment of water resources and flood and drought disaster prevention etc.

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