

专论

山地-绿洲-荒漠的系统耦合是祁连山水资源保护的关键措施

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摘要:

祁连山发育的水系, 是河西走廊山地、绿洲、荒漠复合生态系统赖以生存的基础, 却由于生产的压力和全球气候变化处于危机之中。林、草、苔藓、灌木结合是保护祁连山水源的关键, 既能够维持水源的数量, 还能保护水源地的环境。河西走廊的山地、绿洲、荒漠是一个整体, 任何一个子系统出问题, 都会造成整个复合农业系统的灾难, 根据草地农业生态系统4个生产层的理论, 调整复合农业系统的生产结构, 是发展山地-绿洲-荒漠系统耦合的捷径, 将构筑祁连山水源保护的农业系统基础。这种模式在我国西北内陆, 乃至世界干旱地区具有示范意义。

关键词: 河西走廊; 系统耦合; 草地农业生态系统; 山地—绿洲—荒漠耦合系统

System coupling of mountain oasis desert plays a key role in the protection of water resource in Qilianshan mountains

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Abstract:

River systems originating from Qilian Mountains have been supporting the existence of the mountain-oasis-desert ecosystem in the Hexi corridor. However, the productive pressure and the global climate change put this ecosystem into a crisis. The integration of forest, herbage, shrub, and moss play a key role in the protection of quantity and quality of water source as well as in the conservation of ecological environment in Qilianshan Mountains. The mountains, oasis and desert take effects as a whole. Out of order of any of which would cause a disaster of the agricultural system. Based on the theory of 'Four Production Level of Paratacultural System', optimization of productive structure will take a shortcut of system coupling of mountain oasis desert, which establishes the agricultural system for water resource conservation the agricultural system foundation. The kind of pattern supplies a demonstration for inner land area of the whole world.

Keywords: Hexi corridor system coupling grassland agro ecosystem mountain-oasis-desert coupled system

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