中国农业科技导报 2007, 9(5) 45-52 DOI: ISSN: 1008-0864 CN: CN 11-3900/S

综述

利用昆虫病毒恢复和构建稳定森林生态系统的理论与实践

张永安 曲良建 王玉珠

中国林业科学研究院森林生态环境与保护研究所,北京100091

摘要：

以恢复和构建相对稳定的生态系统实现害虫持续控制为理念，对我国林业生物灾害的现状、生物防治技术的现状及问题进行分析与展望，并从森林生态系统的概念、稳定生态系统的标准、恢复和构建森林生态系统的方法等几个方面进行了探讨。同时，根据4种昆虫病毒杀虫剂的实践结果，分析了昆虫病毒杀虫剂在恢复和构建稳定生态系统中所发挥的作用，说明昆虫病毒是构建和恢复以害虫为核心的稳定生态系统的有效措施之一。

关键词： 森林生态系统 恢复与构建 森林害虫 昆虫病毒

Theory and Practice of Restoration and Construction of |Stable Forest Ecosystem by Utilizing Insect Viruses

ZHANG Yong-an, QU Liang-jian, WANG Yu-zhu

Research Institute of Forest Ecology, Environment and Protection, Chinese Academy of Forest| Beijing 100091, China

Abstract:

This paper takes restoring and constructing relative stable ecological system to realize sustainable control of pest insects as major theory. It analyzes the present status of forest pest insects and bio-control technique in China and looks forward to the future. It also carries out discussion on the concept, criterion of stable ecological system and the methods of restoring and constructing forest ecosystem. Meanwhile, it also analyzes the role of insect viruses insecticide in restoring and constructing the stable forest ecology system, according to the results of experiments with 4 kinds of insect viruses insecticides. This indicates insect virus is one of the effective measures for constructing and restoring stable ecosystem, which takes insect as core.

Keywords: forest ecological system restoration and construction forest pest insects insect virus

收稿日期 2007-07-23 修回日期 2007-08-20 网络版发布日期

DOI:

基金项目:

国家自然科学基金项目“昆虫病毒流行规律研究”（30671688）资助.

通讯作者:

作者简介: 张永安|研究员|主要从事森林有害生物防治研究。Tel：010-62889520；E—mail：zhangyab@ca1.ac．cn

作者Email:

参考文献：

本刊中的类似文章

文章评论

反馈人		邮箱地址	

反馈标题		验证码	6799