

林学—研究报告

北京奥运期间首都机场海关监管库区昆虫多样性研究

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摘要:

海关监管库是包装货物进入我国境内的重要集散地,为有效监测北京奥运会期间外来有害生物随各种包装材料侵入我国,作者于2008年6月上旬至10月上旬,利用昆虫引诱剂和黑光灯监测的方法,对北京首都机场海关监管库区昆虫种类及多样性进行了系统调查。结果表明:监管库区共有昆虫211种,隶属于11目、64科;其中以鳞翅目、鞘翅目和双翅目种类最多,分别占总数的46%、22%和9.5%;单科种类最多的是鳞翅目的夜蛾科和螟蛾科,其次为鞘翅目中的步甲科、瓢甲科和鳃金龟科,它们共同构成了监管库区的优势种群。网锥额野螟和大青叶蝉的种群数量最多,分别占总数的4.65%和2.54%,是监管库区的优势种。同时,监测中还发现了进境植物一类检疫对象美国白蛾和全国林业危险性检疫对象家茸天牛,但其种群数量均较少。研究结果为有效监测和控制北京首都机场海关监管库区有害生物的发生,阻止外来有害生物入侵,避免首都农林生产和生态安全受到威胁,具有非常重要的指导意义。

关键词: 北京奥运会 首都机场 海关监管库 昆虫多样性

The study on the insects diversity in the customs supervision treasury area of the capital airport during the Beijing Olympic Games

Abstract:

The customs supervision treasury is an important distribution center of packaging goods imported into China. In order to monitoring effectively some invasive alien species carried by packing materials imported into China during the Beijing Olympic Games, the insect species and diversity was investigated in the customs supervision treasury area of the capital airport by the methods of insect attractants and ultraviolet light trap, from early June to early October in 2008. The results showed that the insects had 211 species, belonging to 11 orders, 64 families. The species of Diptera, Lepidoptera and Coleoptera were most, and accounting for 46%, 22% and 9.5% respectively. In an individual family, the species of Noctuidae and Pyralididae of Lepidoptera were most, and the next were Carabidae, Coccinellidae and Melolonthinae, and they formed a dominant population in the inspecting treasury. The population number of *Loxostege sticticalis* and *Cicadella viridi* were most, and accounting for 4.65% and 2.54% respectively, and they becomed a dominant species. In addition, we also found some *Hyphantria cunea* and *Trichoferus campestris*, but the population number of that was fewer. The results were of the very important instructing meaning for monitoring and controlling the occurring of some pests in the customs supervision treasury of Beijing capital airport, and preventing the invasion of alien pests, and protecting the ecological environment security and agricultural and forestry production.

Keywords: Beijing Olympics, capital airport, customs supervision treasury, insect diversity

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