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皖北地区仓储环境孳生粉螨群落组成及季节消长

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Composition and Seasonal Fluctuation of Acaroid Mite Communities in Warehousing Environment of Northern Anhui Province

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摘要 于2012年1~12月每月中旬定点采集皖北地区的储藏物样品, 采用避光爬附法和水膜镜检法对粉螨进行分离、鉴定和计数, 并分析物种多样性公式。在收集的1 440份样品中, 检获粉螨692份, 检出率为48.1%, 孳生密度为32.1只/g, 共分离粉螨34种, 隶属于7科19属。一年之中仓储环境孳生粉螨的丰富度指数(Rmargalef)为0.48~3.30, 其中8月份最高; 多样性指数(H')为1.29~3.32, 其中7月份最高; 物种均匀度指数(J)为0.91~0.97, 其中3月份最高。粉螨物种数、检出率、孳生密度、物种丰富度指数和多样性指数在时序上分布较为一致, 物种均匀度指数不规则。仓储环境中粉螨种类较多, 污染较为严重, 群落组成多样化, 且随季节变化。

关键词: 粉螨 群落 多样性 季节消长 皖北地区

Abstract: Samples of stored products were collected every month in 2012 in northern Anhui Province. Acaroid mites were isolated, identified and counted. Among 1 440 samples, 692 (48.1%) had mite infestation and 34 species were identified, and the density was 32.1 mites/g. The species richness index (Rmargalef) ranged from 0.48 to 3.30, which was highest in August. The species diversity index (H') was 1.29-3.32, highest in July. The species evenness index (J) ranged from 0.91 to 0.97, highest in March. The number of species, breeding density, species richness index and species diversity index were stable in the year, while the species evenness index showed irregular change. There were many species of acaroid mites in the storage circumstance. The composition of acaroid mites were diverse, and changed with the seasons.

Keywords: Acaroid mite Community Diversity Seasonal fluctuation Northern Anhui Province

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