研究报告

群落结构特征参数对葡萄园节肢动物群落作用的比较

邹运鼎1,李昌根1,2,毕守东1,巫厚长1,陈向阳1,李芬1,周夏芝1,林雪飞1

¹安徽农业大学林学与园林学院,合肥 230036; ²国家林业局三北防护林建设局,银川 750001

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摘要 利用主成分分析法,对葡萄园节肢动物群落、植食类亚群落、捕食类亚群落的特征参数进行分析.结果表明,葡萄园节肢动物群落、植食类亚群落、捕食类亚群落特征向量矩阵中第1主分量综合指标贡献率依次为66.70%、73.39%和54.17%.节肢动物群落的总个体数N、Hill多样性指数 N_1 、Hill多样性指数 N_2 和 McIntosh指数 D_{mc} 的标准回归系数绝对值较大,对群落贡献大;植食类亚群落的N、 N_2 、 N_1 和物种数S的标准回归系数绝对值较大,对植食类亚群落贡献大;捕食类亚群落的 N_2 、 N_1 、Shannon-Wiener多样性指数H和丰富度R的标

准回归系数绝对值较大,对捕食类亚群落贡献大.综合分析,多样性指数 N_1 和 N_2 对3种类型群落贡献较大. 关键词 <u>结构特征 葡萄园</u> <u>节肢动物群落 植食类亚群落 捕食类亚群落</u> 分类号

Structural characteristics of arthropod community in grapery

ZOU Yunding¹,LI Changgen^{1,2},BI Shoudong¹,WU Houzhang¹,CHEN Xiangyang¹,LI Fen¹,ZHOU Xiazhi¹,LIN Xuefei¹

¹College of Forestry and Garden, Anhui Agricultural University, Hefei 230036, China; ²The Three North Program of State Forestry Administration, Yingchuan 750001, China

Abstract

By the method of principal component analysis, this paper analyzed the characteristic parameters of arthropod community and its phytophagous and predacious sub-communities in grapery. The results showed that in the first principal component, the contribution of arthropod community, phytophagous sub-community and predacious sub-community was 66.70%, 73.39% and 54.17%, respectively. For arthropod community, the absolute values of normalized regressive coefficients of individuals' number N, Hill diversity index N_1 , Hill diversity index N_2 and McIntosh index D_{mc} were larger, indicating their greater contribution on the community. For phytophagous sub-community, N, N_1 , N_2 , N and S (total species) had greater contribution; while for predacious sub-community, the greater contribution was made by N_1 , N_2 , Shannon-Wiener diversity index H'and abundance R. Synthetically, N_2 and N_1 had greater contribution on the arthropod community and its phytophagous and predacious sub-communities in grapery, comparing with other characteristic parameters.

Key words Structural characteristics Grapery Arthropod community Phytophagou

s sub-community Predacious sub-community

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