



紫胶林-农田复合生态系统螽类昆虫群落多样性

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Diversity of heteropteran communities in lac plantation-farmland ecosystem

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摘要 在云南绿春县采用网扫法调查了紫胶林-农田复合生态系统中稻田(I)、旱地(II)、天然紫胶林(III)、人工紫胶林(IV)的螽类昆虫群落。共采集标本1583号,隶属于11科54属79种。4个样地螽类昆虫群落的第1优势种分别是大稻缘螽、二星螽、革红脂猎螽、联斑棉红螽;物种丰富度S分别为19.250,17.750,23.333,19.333,Shannon-Wiener指数分别为1.951,2.081,2.552,2.511,Simpson指数分别为0.229,0.214,0.125,0.113,Pielou指数分别为0.668,0.738,0.810,0.848;各样地螽类多样性的排序为III>IV>II>I。紫胶林-农田复合生态系统螽类昆虫群落具有中等的多样性水平,土地利用方式和强度的不同决定了系统内螽类昆虫群落在物种组成和多样性上的不同特点。

关键词: 混农林生态系统 螽类 物种丰富度 农业土地利用 紫胶虫

Abstract: True bug communities were investigated by sweep netting in paddy field (I), dry land (II), natural lac forest (III), and lac plantation (IV) in lac plantation-farmland ecosystem in Lvchun County, Yunnan Province. A total of 1583 bugs were captured, belonging to 79 species, 54 genera, and 11 families. In the 4 plots, the first dominant species were *Leptocoris acuta*, *Eysarcoris guttiger*, *Velinus annulatus*, *Dysdercus poecilus*. The four species richness Swere 19.250, 17.750, 23.333, 19.333, the Shannon-Wiener index were 1.951, 2.081, 2.552, 2.511, the Simpson index were 0.229, 0.214, 0.125, 0.113, and the Pielou index were 0.668, 0.738, 0.810, 0.848 respectively. The order of diversity of the bug communities was III>IV>II>I. The diversity of bug communities in the complex system was moderate, and the different land use habitats in the system had different species component and diversity, which was associated with the different land use patterns and intensities.

Key words:

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