The Influence of Environmental Factors on Species Diversity in a Hilly Grazing Land

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The influence of environmental factors (light, water content, soil hardness, litter accumulation, soil chemical) and grazing intensity on the plant species composition and species richness were studied at the grazing land in western Japan. The study site is 4.1 in natural grazing land with a forest plant in the National Agricultural Research Center for Western Region, Osaka, Shimane, Japan. Five different tree density areas (grassland, intensively logged forest, extensively logged forest, control forest), and two belts transect were set up in each area. The vegetation of herb layer was investigated and environmental factors, such as light condition, water content, soil hardness, litter accumulation, and soil chemical properties, were measured. By one-way ANOVA, light, water condition, soil hardness, and soil chemical properties, especially N/P/Mg, differed significantly among the areas, but soil pH did not. Differences of tree density, cultivation intensity level mainly affected the plant species composition. The control forest without grazing was dark, soft, much litter in the soil as a rural secondary forest. No-logged forest, extensively logged forest and intensively logged forest had intermediate condition in cultivation intensity, light and litter. Grassland was sunny, strongly grazed and little litter. CCA showed the importance of cultivation intensity, light condition and soil hardness on controlling the herbaceous species composition in a hilly grazing land. The results suggest cattle grazing and logging restore a rich plant species rich forest and provide the habitat for many plant species.

China Zhejiang Provinza Nanzhong City Linshui Flora Struktur

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The vegetation of China Zhejiang Provinza Nanzhong City Linshui Flora Struktur is described. The main vegetation types are described. The vegetation of China Zhejiang Provinza Nanzhong City Linshui Flora Struktur is described. The vegetation of China Zhejiang Provinza Nanzhong City Linshui Flora Struktur is described. The vegetation of China Zhejiang Provinza Nanzhong City Linshui Flora Struktur is described.