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陕北沙区不同利用方式风沙土的养分特征

石辉^{1,2}; 吴金水²; 陈占飞³

1.西南师范大学资源环境学院 重庆北碚400715; 2.中国科学院水利部水土保持研究所 陕西杨凌712100; 3.陕西榆林市农业科学研究所 陕西榆林719000

Nutrient characteristics of aeolian sandy soils under different utilization in northern Shaanxi

SHI Hui^{1,2}; WU Jin shui²; CHEN Zhan fei³ *

1 College of Resou. and Envir. Southwest Normal Univ. Beibei; Chongqing 400715; 2 Inst. of Soil and Water Conserv.; CAS and Ministry of Water Resou.; Yangling; Shaanxi 712100; China; 3 Inst. of Agri. Sci. in Yulin municipality; Yulin; Shaanxi 719000; China

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摘要 通过分析陕北沙区榆林市不同利用方式形成的流动风沙土、半固定风沙土、固定风沙土(紧沙土)和由人类生产活动形成的耕种固定风沙土、耕灌固定风沙土的养分特征,发现随着植被的增加,流动沙丘逐渐被固定,流动风沙土、半固定风沙土、固定风沙土含有较多养分的细颗粒增多使表层养分逐渐增加。耕种固定风沙土由于生产活动,加速了土壤有机质的矿化,使土壤有机质、氮素含量降低;而磷肥的使用,使土壤有效磷增加。耕灌固定风沙土作为当地的基本农田受人类活动影响,引水拉沙,增加土壤细颗粒含量,且大量施肥,使这种土壤的肥力有了较大地提高。

关键词: 陕北沙区 风沙土 养分特征 陕北沙区 风沙土 养分特征

Abstract: In this paper, the nutrient characteristics of five kinds of aeolian sandy soils sampled from Yulin municipality of northern Shaanxi Province were studied. Among these soils, moving, semi-fixed, and fixed aeolian sandy soils are formed under natural conditions, and cultivated fixed, irrigated fixed aeolian sandy soils are formed through artificial cultivation activities. The results showed that with the increase of vegetation, moving dunes were gradually fixed, the nutrient content of surface soil gradually increased from moving aeolian sandy soil to semi-fixed and fixed aeolian sandy soil because the fine grains, which contain more nutrients, were not blown away at a large degree and the content of fine grains in soils gradually increased after vegetation cover improved. The contents of soil organic matter and nitrogen decreased because of the accelerated mineralization of organic matter by human activities. Meanwhile, application of phosphorus fertilizer made the available phosphorus enhance. The irrigated fixed aeolian sandy soil, the principal farmland in Yulin municipality, was intensively affected by artificial production activities. The fertility of irrigated fixed aeolian sandy greatly improved by irrigation and fertilization, so the soil nutrient content was higher than that of other soils.

Keywords:

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