

原地放袋振动间隔松土对羊草草地质量的影响 Effect of Situ-vibration Spacing Scarifying Technique to *Leymus chinensis* Grassland

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关键词: 原地振动间隔松土 羊草草地 植被特性 土壤性质 植物多样性 经济效益

摘要: 以河北坝上地区羊草草地为研究对象, 采用野外取样与实验室分析相结合的方法研究了原地放袋振动间隔松土对羊草草地的影响。结果表明, 羊草草地经过原地放袋振动间隔松土处理后, 土壤容积密度降低、毛管持水力升高和土壤含水率增加, 同时土壤养分也呈现不同程度的优化; 植物高度、盖度、密度和地上、地下生产力提高, 优良牧草所占的比例有所增加, 草地群落的植物多样性得到提高; 在草地处理3年内平均每公顷每年增加收入155元。Based on zone tillage theory, a paired-site design was adopted to qualitatively and quantitatively evaluate the effect of situ-vibration tillage on *Leymus chinensis* grassland, which would be applied to provide theoretical reference and technical support for restoring degraded *Leymus chinensis* grassland. Results showed that the soil bulk density decreased, soil water holding capacity and water content increased and the content of soil nutrient increase to some extent after the grassland scarified; the height, cover, density of grass vegetation, above and below-ground yield, proportion of excellent and good forges and grassland plant diversity all increased, the yearly average economic benefit from the grassland soil scarifying was 155 RMB/hm² in next 3 year.

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