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植物生产层

硼肥对热研11号黑籽雀稗种子产量和发芽的影响

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摘要:

: 研究硼肥对热研11号黑籽雀稗(*Paspalum atratum* cv. Reyan 11)种子产量和品质的影响。试验设9个硼肥处理, 质量分数范围为0~4.0%, 分3次施入。结果表明, 施硼量3.0%(3%的硼酸分3次施入: 400 mL+400 mL+600 mL)的效果最好, 种子产量达1 124.4 kg·hm<sup>-2</sup>。施硼肥可提高生殖枝数、小花数/小穗、可育小花数/小穗和种子千粒重, 但对小穗数/生殖枝影响不显著; 施硼肥能提高种子的发芽率、发芽势、发芽指数以及芽长和芽质量。施硼量3.0%可以使发芽率达到20.17%, 比对照提高了30%。

关键词: 构成因素 潜在种子产量 实际种子产量 种了发芽

Influences of boric fertilizer on seed yield and quality of *Paspalum atratum* cv. Reyan 11

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Abstract:

Effects of boric fertilizer application on seed yield and germination of *Paspalum atratum* cv. Reyan 11 were studied by a pot experiment in this study. The experiment included 9 different boric concentration treatments (0~4.0%). Each treatment was divided into 3 applications. The results showed that seed yield reached the highest of 1 124.4 kg·ha<sup>-1</sup> with 3.0% boric treatment. 3.0% boric treatment significantly raised seed yield components, including fertile tiller nubmer per pot, floret number per spikelet, fertile floret number per spikelet and thousand grain weight . The fertilizer also raised seed germination rate, germination potential, germination index, seedling height and weight. Seed germination rate under 3.0% boric treatment reached to 20.17% and 30% increase compared with control.

Keywords: seed yield component potential seed yield actual seed yield seed germination

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1. 冯燕, 胡小文, 王彦荣, 余进德, 杨磊.不同水分条件下苦豆子种子产量及其构成因素研究[J]. 草业科学, 2010,27(07): 48-51

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