

研究报告与简报

土壤类型对沙葱幼苗出土和生长的影响

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摘要:

通过盆栽试验研究砂土、壤土、砂壤土、上砂下壤和上壤下砂5种不同土壤类型对沙葱出苗及幼苗生长的影响。结果表明,沙葱出苗率与土壤透气性显著正相关,砂土透气性好,沙葱出苗率最高;幼苗生长不仅与土壤透气性有关,而且与土壤养分含量有关,不同土壤类型对沙葱的叶粗、根数、地下部鲜重和干重影响显著。砂壤土中沙葱生长各指标最优,上砂下壤次之。

关键词: 土壤类型; 沙葱; 出苗; 生长

Effects of Soil Type on Seedling Emergence and Growth of *Allium mongolicum* Regel

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Abstract:

A pot experiment was carried out to study the effects of 5 soil types including sandy (S), loam (L), sandy loam (SL), upper sandy and lower loam (US+LL), and upper loam and lower sandy (UL+LS) on the seedling emergence and growth of *Allium mongolicum* Regel. The result showed that the seedling rate of *Allium mongolicum* Regel had significant positive correlation with soil permeability, seedling rate was the highest in sandy soil (S), due to its good permeability. The seedling growth of *Allium mongolicum* Regel not only depended on soil permeability, but also related to soil nutrient content. The leaf thickness, root number, fresh weight of shoot and dry weight of shoot were significantly affected by soil types that *Allium mongolicum* Regel grown in. Growth status of *Allium mongolicum* Regel in sandy loam (SL) was the best, that in upper sandy and lower loam (US+LL) took the second place.

Keywords:

soil type *Allium mongolicum* Regel seedling emergence growth

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