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**摘要:**

**摘要:**【研究目的】探讨随着盐分浓度的递增对鹅观草幼苗生物学指标的影响规律, 为今后鹅观草属植物耐盐育种提供科学依据并为解决大西北草原盐碱化这一问题提供优良牧草资源; 【方法】以三种鹅观草为供试材料, 利用不同浓度NaCl溶液对其进行胁迫处理7d, 测定它们的株高、根长、叶长、叶宽、地上部分鲜重及干重、地下部分鲜重及干重等苗期生物学指标; 【结果】试验研究表明: 低盐浓度对三种鹅观草幼苗生物学指标影响较小; 随着盐浓度高的增大, 三种鹅观草各项指标均受到严重抑制, 且达到极显著差异( $P<0.01$ ); 【结论】综合分析各项生物学指标, 认为三种鹅观草幼苗耐盐敏感性: 偏穗鹅观草最耐盐, 大芒鹅观草最敏感, 肆草介于二者之间。

**关键词:** 鹅观草; NaCl胁迫; 幼苗; 生物学指标**The Study of Salt Tolerance of Three Species Seedling of Roegneria****Abstract:**

**Abstract:**【OBJECTIVE】This article investigate biological indicators influence rule of salt tolerance on Roegneri Seedling, provide scientific basis for Roegneri breeding, and provide fine forage resource to solve the question of northwest grassland alkalinization. 【METHOD】Different concentrations of NaCl solution on the three species of Roegneria (3-leaf stage) for stress treatment 7d, measured their biological indicators such as height, root length, leaf length, leaf width, shoot fresh weight and dry weight, fresh weight of the underground sections and dry weight. 【RESULTS】Experimental studies have shown that: low-salt concentration on the three species of Roegneria biological indicators little effect on seedling; with a high salt concentration increases, the three species of Roegneria indicators are severely inhibited, and reached a very significant difference ( $P<0.01$ ). 【CONCLUSION】Comprehensive analysis of biological indicators that the three species of salt-sensitive Roegneria seedlings: the seedling of (*R. komarovii* (Nevski) Nevski) exhibit the greatest salt tolerance, and the seedling of (*R. turczaninovii* (Drob) Nevski var. *macrathera* Ohwi) exhibit the worst salt sensitivity and (*R. stricta* Keng f. *stricta*) be placed in the middle.

**Keywords:** Roegneria caucasica NaCl stress seedling biological indicators**收稿日期** 2010-07-02 **修回日期** 2010-09-07 **网络版发布日期** 2011-02-18**DOI:****基金项目:**

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