

COMPARISON OF DIFFERENT METHODS OF POTASSIUM APPLICATION TO RICE (ORYZA SATIVA L.) IN A SALT-AFFECTED SOIL

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ABSTRACT.

A field experiment was conducted on two rice cultivars, NIAB-6 (salt tolerant) and IR-1561 (salt sensitive) in a salt-affected field to evaluate the effect of different methods of K application to rice (Oryza sativa L.). Tillering capacity, paddy and straw yield and 1000-grain weight increased in both the cultivars due to K⁺ application. No significant differences were observed amongst the methods of K application. Concentration of Na⁺, P and Cl decreased while that of K⁺ increased in both the varieties because of K application. K:Na and Zn:P ratios were also improved by the application of potassium in a saline soil.