

Abstract:

Potassium is an essential element for plant growth and physiological and biochemical plant is one of the major cations. So be aware of the status of soil potassium in potassium fertilizers used on farms than is necessary. The present study aimed to assess the situation prevailing in potassium and Evaluation extractants can be used to extract potassium sorghum critical K levels in the 13 series was plain soils. This factorial experiment in a completely "random with three levels, 100 and 200 mg/ kg of soil available potassium fertilizer, potassium extracted in triplicate and was performed by extracting 6. Results of this study indicated that K application caused increase performance, concentration and K uptake in sorghum. basis of K extracted, the extractants were divided into two groups, the correlation between extractants in each group was very high. Correlation studies showed that the extractants calcium chloride can be used as available K extractant should be used. Potassium critical levels by Kate - Nelson was drawn, using calcium chloride 0/01 M, sodium acetate 1 M, hydrochloric acid 0/1 M, ammonium acetate 1 M, barium chloride 0/1 M nitric acid 1 M by a graph, respectively, 80, 98, 95, 152, 148 and 180 mg/ kg and the formula method, respectively, 124/5, 112, 232/5, 173, 106 and 162 mg/ kg.

Keywords: Extraction, Potassium, Sistan Soils



University of Zabol
Graduate school
Faculty of Agriculture
Department of Soil and Water

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Compassion of selected universal extractants for the
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Supervisor:

Dr. A. Gholamalizade

Advisors:

Dr. A. Samzadeh

A. A. Bameri

By:

S. Gazmeh

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