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Effect of Biochar and Poultry Manure Compost on Ion Content and Seed Cotton Yield on Saline Soil

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Salinity is a major stress threatening crop production in the arid and semi-arid region of the world. A field experiment was conducted to evaluate the ability of Biochar (BC) of (*Prosopis juliflora*) of biochar and poultry manure compost (PMC) under salinity stress. The field experiment was organized Department of Soil Science, Sindh Agriculture, University Tandojam during kharif season 2016. The treatment include T1=control, T2=(0+5 t ha⁻¹)Biochar + Poultry manure compost (BC+PMC), T3=(5+5 t ha⁻¹)Biochar + Poultry manure compost (BC+PMC), T4=(10+5 t h⁻¹) Biochar + Poultry manure compost (BC+PMC), T5=(15+5 t ha⁻¹)Biochar + Poultry compost (BC+PMC), T6=(20+5t h⁻¹) Biochar + Poultry manure compost (BC+PMC).The finding of experimental result showed that the maximum increase in plant height (cm), were in treatment T6, where the biochar was applied at the rate of(20+5 t ha⁻¹). But the effective yield such number of bolls, seed-cotton yield were increase in treatment T4, where the biochar was applied at the rate of (10+5 t ha⁻¹). Over all experimental observation concluded that the increasing rate of Biochar + Poultry manure compost(BC+PMC) increased vigorous growth and may not effective for yield response in compassion of moderate rate of application of biochar + poultry manure compost (BC+PMC) under a saline soil.