

Research Article

Evaluation of the irrigation potential of variously treated (biological, chemical and reverse osmosis) dye factory effluents on growth and yield of black gram [*Vigna mungo* (L.) Hepper.] under pot condition

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SUMMARY

Studies on the effect of the irrigation potential of variously treated (biological, chemical and reverse osmosis) dye factory effluents on growth and yield of black gram were evaluated under pot condition. The physico-chemical parameters of RO treated effluent were well within the ISI tolerance limits. The plant growth as measured by shoot length, root length and plant biomass was maximum in all growth stages of black gram when irrigated with RO treated effluent. In the same treatment black gram recorded maximum yield in terms of pod length, number of seeds per pod, number of pods per plant, grain yield per plant and 1000 seeds weight.

Key Words: Vigna mungo, Dye factory effluent, Variously treated [biological, chemical and reverse osmosis (RO)]

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