

Abstract

The organic matter are useful source to improve soil quality and increase crop yield in the different plant. In order to evaluation the effect of irrigation with municipal wastewater and consumer organic and chemical fertilizers on the yield and active ingredient plant herb phylum the experimen carried in the 89-90 in agricultural research farm faculty of Zabol university. the experimental design was completely Split-plot in the form of blocks randomized with three briars. the main factors irrigation include A: irrigation with normal water B: 50% of normal water + 50% of urban wastewater C: irrigation with wastewater from the city of Zabol in the main plots and agent factors in the levels secondary, including A: Lack of fertilizer B: mixed organic matter with sewage sludge compost each of 20 tons per acre.C: mixed compost with sewage sludge each of 20 tons per acre D:consumer complete chemical fertilizer recommended in sub plots. The results showed that effect of irrigation treatment with wastewater on yield Seed and other traits except plant height, Seed number and spike, inflation factor and the inflation factor each g mucilage has a significant effect. grain yield, spike length, tiller number, ear number, seed weight, percentage of mucilage, function mucilage and mucilage swelling per gram were significantly affected by fertilization. Effect on the characteristics of these two factors was not significant. Generally can be stated that twenty tons of manure treated per hectare + 20 tons of per hectare sludge and treatment mixture of water and sewerage and tap water is desirable for the plant ago phylum mixture of water and wastewater and tap water is desirable for the plant ago phylum.

Key words: Wastewater, organic fertilizers, *Plantago ovata*, seed yield, mucilage.



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Title

**Effect of irrigation with municipal wastewater and
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oil of *Plantago ovate* (Isabgole)**

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