

Testing and Evaluating of Gradual Hydroponic Pot Experiment for Decentralized Wastewater Treatment in Rural Palestine

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Abstract:

A five stage gradual hydroponic pot experiment was tested in greenhouse at An-Najah University new campus for decentralized wastewater treatment. The experiment included five vegetation plants: two types of corn, barely, alfalfa, and sunflower. Results indicated over ninety percent removal of soluble organics and suspended solids, and about sixty percent of nitrogen. The gradual hydroponic treatment system proved to be a successful alternative method to conserve and reuse wastewater and produce crops in Palestine with high efficiency.

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