

Accumulation of pollutants by hydrophytes and utilization capabilities of vegetation pulp

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Abstract

Features of change of concentration of some heavy metals (iron, copper, zinc, manganese) in *Elodea canadensis* L. and *Ceratophyllum demersum* L. at their presence in industrial sewage are studied. It is shown that plants Canada water weed and hornwort are capable to accumulate some heavy metals. It is noticed that in the course of experimental content of Canada water weed and hornwort in the polluted sewage of the industrial enterprises with absolute concentration of iron, zinc, copper and manganese in water plants increase. Thus during the experiment the concentration of polluting substances in water decreased up to MPC. It has been revealed that the obtained specific concentrations of some heavy metals in Canada water weed and hornwort do not exceed specifications of their content in forages of agricultural animals, agricultural fertilizers and a foodstuff. Feasibility of using hydrophytes, produced on water treatment in making biogas, has been shown.