

Application Use of Slaughterhouse Waste to Improve Nutrient Level in *Apium glaviolens*

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Abstract : Using the slaughterhouse waste combined to suitable dose of nitrogen fertilizer to *Apium glaviolen* gives the significant effect to mean relative growth rate. The same pattern also showed significantly in net assimilation rate. The net assimilation rate increased significantly during 42 days old plants. Combination of treatment of 100 ml/l animal slaughterhouse waste and 0.1 g/kg nitrogen fertilizer/kg soil increased the vegetative growth of *Apium glaviolens*. The biomass of plant and mean relative growth rate of *Apium glaviolens* were rapidly increased in 4 weeks after planting and gradually decreased after 35 days at the harvest time. Combination of 100 ml/l slaughterhouse waste and applied 0.1 g/kg nitrogen fertilizer has increased all parameters. The highest vegetative growth, biomass, mean relative growth rate and net assimilation rate were received from 0.56 mg-l.m-2.days-1.

Keywords : *Apium glaviolent*, nitrogen, pollutant, slaughterhouse, waste

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