

Acute effects of crude oil for three common mangrove seedling in segara anakan nature reserve (sanr) cilacap, Indonesia

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Abstract	The growth of three mangrove species seedlings, <i>Bruguiera gymnorrhiza</i> , <i>Rhizophora apiculata</i> and <i>Ceriops decandra</i> in sediments contaminated by crude oil. This research was designed to evaluate the acute effects of crude oil on the growth and survival performance of mangrove seedling in 4-week field experiment. Three treatments (sub plot) were compared with the control (no oil added) using i.e. 100 ml, 120 ml and 140 ml crude oil applied once, in a split-plot design with nine replicates. The result showed the extent of survival has maximum for <i>B. gymnorrhiza</i> while it was minimum for <i>C. decandra</i> . The growth of mangrove seedlings was decrease with higher concentrations of crude oil. Stem height of <i>B. gymnorrhiza</i> seedling higher than <i>R. apiculata</i> and <i>C. decandra</i> . We observed, severe damage in the epidermis and the cortex at the root of all three types of mangrove seedlings when crude oil applied at 140 ml.
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