

## Seed germination of *avicennia marina* (forsk.) vierh. by pericarp removal treatment

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### Abstrak

*Avicennia marina* is one species used for building coastal ecosystem stabilization in Surabaya shores because of its tolerance to high salinity level and resistance to wave energy. Their existence is threatened by various factors i.e. land conversion, pollution and interisland bridge existence. Growth of *A. marina* is currently limited by seed dormancy. In an effort to increase propagation efficiency, seed viability and vigor were compared based on collection dates and pericarp removal methods. The results showed no relationship between salinity levels of soaking water or seed buoyancy and seed viability or seed vigor. Collection dates may influence seed viability and vigor. Seeds collected in October and November germinated more quickly than those collected in December, although there were no differences in total germination. Hand-peeled seeds germinated more slowly than soaked seeds for all collections, but with no differences in total germination. Seeds collected in October and November grew more vigorously than those collected in December.