

**Development of Intensive Small Scale Farfantepenaeus Notialis and Melicertus Kerathurus
Native Shrimp Hatchery and culture in Cameroon**

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Abstract

Intensive small scale farming unit of the marine shrimps *Farfantepenaeus notialis* and *Melicertus kerathurus* has been developed in Cameroon as a strategy for family aquaculture. The project started in 2008 at Kribi as an initiative from a Bakoko traditional Chief (Salomon Madiba) who organized AQUASOL Company with the scientific and technical support from Concepto Azul. This social project aimed to be also an environmental friendly model of shrimp aquaculture with native species. Wild broodstock was collected and kept under controlled conditions in experimental hatchery. Fertilization and hatching rates were high for the two shrimp species, greater than 90% and 80% respectively. Survival at PL20 stage was higher at 29° C (45 to 60%) than at 26° C (10 to 18%). The highest growth rate was observed at 25 ppt with an average weight about 0.25g for PL60 fed with a commercial feed and about 0.23g for PL60 fed with an artisanal feed based on fish processing wastes (viscera). The *F. notialis* animals have been successfully grown up to broodstock size (25g) and will be used as F1 broodstock. The next step of the project corresponds to the establishment of pilot unit for a one ton per year production that would be profitable at a family scale.