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Sustainable Aquaculture for a Secure Future

Title: Research on artificial seawater quality in the Penaeus vannamei larval breeding ponds

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Abstract:

In order to overcome the losses caused by long-distance transportation, we try to use artificial seawater for *Penaeus vannamei* larval breeding locally. In 2011, we added seawater crystal and coarse salt to the natural freshwater from adjacent river for *Penaeus vannamei* larval breeding in Fengxian district of Shanghai. During the breeding period, we monitored water quality everyday and the results were as following: DO was $7.3(\pm 0.10)$ mg/L, pH was $8.00(\pm 0.04)$, temperature was $28.2(\pm 0.20)^{\circ}$ C, PO₄–P was $0.88(\pm 0.14)$ mg/L, TP was $1.46(\pm 0.14)$ mg/L, NO₂–N was $0.21(\pm 0.02)$ mg/L, NO₃–N was $1.52(\pm 0.10)$ mg/L, TNH₄–N was $2.88(\pm 0.34)$ mg/L, TN was $7.01(\pm 0.36)$ mg/L, and COD_{Mn} was $18.05(\pm 1.40)$ mg/L. Biological and chemical methods were used for water quality control to create a good environment for larval growth.

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