Benefits of integrated mangrove – shrimp farming

Researchers from Can Tho University, the Network of Aquaculture Centres in Asia-Pacific and the Asian Institute of Technology studied 161 shrimp-mangrove farms on the east and west coasts of Ngoc Hien District in the Mekong Delta. On the east coast, the pH of the bottom soil, the alkalinity of the water, the ratio of the gate width to pond area, the pond’s age, mangrove density and flooding levels all contributed significantly to shrimp outputs. On the west coast, the pH of the pond’s bottom soil, the amount of dissolved inorganic phosphorous in the water, the ditch area and the flooding levels all contributed significantly to the success of shrimp yields. An economic analysis carried under the same study, and the researchers found that maximum economic gain was obtained where 30 – 50% of pond area was covered by mangrove.


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Source: Mekong Research Volume 1 No. 2 December 2004