

Worralak Tipaksorn 2011: Aquaculture Farmers Adaptation on Coastal Erosion:
A Case Study of Pacific White Shrimp Farmers in Pak Phanang, Nakhon Si Thammarat
Province. Master of Science (Fishery Management), Major Field: Fishery Management,
Department of Fishery Management. Thesis Advisor: Assistant Professor
Methee Kaewnern, Ph.D. 100 pages.

The study of location, number and area of Vannamie white shrimp ponds in Pak Phanang district, Nakhon Si Thammarat province located between highway no. 4231 and 4031 and the coastal line, which might be effected from coastal erosion at a rate of 10 m.year⁻¹ using geography information system, found that during the period of 2005-2015 about 11.96% of number of shrimp ponds and 14.09% of farm's area would be affected, and accumulated production loss would be accounted for 89 million Baht. The period of 2016-2025 about 59.6% of number of shrimp ponds and 52.35% of farm's area would be affected, and accumulated production loss would be accounted for 331 million Baht. The period of 2026-2078 about 100% of number of shrimp ponds and 100% of farm's area would be affected, and accumulated production loss would be accounted for 633 million Baht. The total of 31 farmers who operate shrimp farm located close to zone the coastal were interviewed using questionnaire and in-depth interview was conducted via focus group. The results showed that 90.3% of interviewed famers faced of coastal erosion problem and 60.71 % of them indicated that their farm areas have erosion. Only 51.6% of farmers have adapted to protect and alter their farms from the coastal erosion.

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