

Wanna Thawinwan 2013: Geoinformatic Application on Good Aquaculture Practice (GAP) Certification and Traceability of Pacific White Shrimp Farming in Phra Nakhon Si Ayutthaya Province. Master of Science (Fishery Management), Major Field: Fishery Management, Department of Fishery Management. Thesis Advisor: Assistant Professor Methee Kaewnern, Ph.D. 150 pages.

Geoinformatic which consists Geographic Information System (GIS), Remote Sensing (RS) and Global Positioning System (GPS) was applied to collect data for Good Aquaculture Practice (GAP) certification and collected data in traceability system on white shrimp farming in Phra Nakhon Si Ayutthaya Province. Spatial data and attribute data were collected during June – October 2012 from 39 white shrimp farms that applied for GAP certification from Department of Fisheries. These farms are located in the Phak Hai, U-Thai, Wang Noi, Se-Na and Lad Bua Luang district, Phra Nakhon Si Ayutthaya Province. Spatial data was collected by field survey such as coordinate geography of farm, each pond, storehouse by GPS receiver. Including the coordinate geography of Phra Nakhon Si Ayutthaya Province, data of government boundary from map 1:50,000 and satellite photograph which shown the located of farm from Google Earth program. All spatial data was imported and processed with ArcGIS 9.3 software. Meanwhile attribute data was collected by field survey, the general data of farm such as name of owner, farm register, address of farm, amount of pond, farm area and other related data such as picture of farm, pond, owner and farm management from the farms that related to GAP certificate require were collected and recorded. The results indicated that geoinformatic can be used as a tool to collect data for Good Aquaculture Practice (GAP) certification and traceability system of pacific white shrimp production in Phra Nakhon Si Ayutthaya Province.

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