

Wanwisa Damsiri 2008: Information System for Restoration the *Penaeus monodon* fabricius Husbandry Area in Surat Thani. Master of Science (Agricultural Information Technology), Major Field: Agricultural Information Technology, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Supat Faarungsang, M.S. 57 pages.

The study objectives were to present information of the *Penaeus monodon* fabricius husbandry area in Surat Thani through Geographic Information System (GIS) by using MapServer program and to use information system for decision making on restoration the *Penaeus monodon* fabricius husbandry area. Research process divided into four parts. The first part was gathering data of 6,254.6 rai on restoration the *Penaeus monodon* fabricius husbandry area in Surat Thani covering Amphur Meuang (28 rai), Amphur Chiya (198 rai), Amphur Thachana (754.1 rai) and Amphur Phunphin (7,827.1 rai) including restoration area about 3,154.6 rai. The second part was data of the plant substitution in restoration the *Penaeus monodon* fabricius husbandry area. The third part was making a map. The last step was the presentation of primary data form GIS.

The application of MapServer is the procedure to manage the primary data for users to search information easily. Moreover, information details could help for farmers and government officials making decision on land use of the *Penaeus monodon* fabricius husbandry area and management restoration appropriately. The research was only a primary study thus it might not serve all the users'demand for an accuracy of GIS; however, it was a new trend to present information.

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