

Chalinee Bumrongkit 2008: Prototype of Geographic Information System (GIS) of Orchid Cultivation in Samut Sakhon Province. Master of Science (Agricultural Information Technology), Major Field: Agricultural Information Technology, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Supat Faarungsang, M.S. 40 pages

The research was to develop the prototype database of orchid farmers and cultivation area in Samut Sakhon province with the Geographic Information System and to study problems of Geographic Information System. The research used software program working through Internet Map Server of the University of Minnesota, U.S.A., PHP Program and PHP My Admin. Database provided information both in terms of geographic and descriptive data via the Internet and able to function on basic analysis. The developed system was expected to serve as a model for further development of other databases. The Geographic Information System of orchid farmers. The second part was a mapping of the cultivation area from the survey using a linear map and the coordinate and Universal Transverse Mercator (UTM) map. The third part was the presentation of information through the website.

The result of the study were the prototype of Geographic Information System of 554 orchid farmers and land use 4,102 Rai for orchid cultivation in Samut Sakhon province and the most orchid cultivation area 3,056 Rai in Amphoe Kra Tum Ban. Geographic Information System problem was the complication of data presentation directly to the Map Server program could not present data input system. It need MapInfo to convert files to be compatible with Map Server program

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Student's signature

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Thesis Advisor's signature

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