Abstract

The following report is the overview of the research project "Implementation of DSSARM-TKR 1.0 in flooded-prone areas of Paw river, Kalasin province" supported financially by The Thailand Research Fund (TRF). The duration of the project was from 1st May 2008 – 30th April 2010. The project consisted of 4 sub-projects. In flooded-prone areas of Paw river. the first 3 sub-projects either generated a GIS database, or collected socio-economic information on flooding impacts and adaptation of farmers in terms of income generating activities, or use crop modeling to predict better crop replacement for dry-season irrigated rice. The last sub-project received all information from the first 3 sub-projects and used them as inputs to develop the decision support system "DSSARM-PAW for agricultural development in flooded-prone areas of Kalasin province".

This overview also gives the objectives, methodologies and results and conclusions of all sub-projects and explains how these linked to the main objectives of the mother project. This overview discusses on benefits and limitations of applying the "DSSARM-TKR 1.0-Paw river basin" in different hierarchical levels of this basin system. It also suggests how this program could be used together with other available data sources or existing computerized database programs for rural development. Small suggestions for essential future works are mentioned at the end.