

Introduction

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This is the first interim report of the socio-economic sub-group of ICCAP supported by Research Institute for Humanities and Nature and The Scientific and Technical Research Council of Turkey. Our sub-group, consisting of a Japan team lead by Dr. Tsujii and a Turkish team lead by Dr. Erkan, plans to conduct economic and new institutional economic analysis and identification of important influences of climatic change factors, economic factors, technological factors, institutional and policy factors, and social factors, and of important impacts of any relationships among these factors to agricultural production of Turkey. We plan to find out these important influences and impacts by socio-economic studies of current agricultural and farm situation and past data. When we can identify these important influences and impacts, then these results imply Turkish agricultural production in late 21st century

There are five components in the research of the socio-economic subgroup.

(1) Study of farmers' economy, and farmers' perception and responses to climatic changes, technological changes, natural resource changes, and policy and institutional changes. Tsujii, Erkan, Asami, graduate students.

(2) A sector-wise econometric study of the interactions among climatic changes, agricultural production and policy by the IO analysis and agricultural policy analysis. Kagatsume, Tsujii, Erkan.

(3) A regional agricultural mathematical programming model analysis of the relation among products' structure, water use, agricultural policy, and climatic changes in Adana and Konya. Kameyama.

(4) Institutional economics analyses of the use of natural resources (commons) such as water and pasture

by farmers, pastoralists, and the government. Umetsu, Asami and Tsujii.

(5) Econometric analyses of farmers' responses to climatic change using our farm survey data and the government statistical data. Tsujii, Asami, Kusadokoro, and Maru.

We have done three farm surveys in Adana and Konya during the period from late 2002 to 2004. Three master theses analyzing the data collected from the farm surveys on rural credit rationing, rural manure market evolution, and rural female labor emancipation were completed. A master thesis on farmers' resource use problems for sugar beat production in Konya is being written by using the farm economy and behavior data collected from two farm surveys in Konya in 2004. An I-O analysis of the relationship between inter-sectoral dependencies and climatic change was started and some results are presented in this report. A time-series agro-climatic econometric analysis of relationship among monthly weather data, wheat production, economic and technological factors, and policy factors has also been started, and some interim results are now available as shown in this report. New institutional economics analyses of the roles of water users' association and government pasture conservation institution have also been started, some results are presented in this report.

I thought that now is a proper time to publish an interim report of our sub-group. I like to ask critical comments and questions about methodology and results of socio-economic sub-group shown in this interim report from all the participants of the socio-economic subgroup and from the other participating researchers of other sub-groups of the ICCAP.

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