

A Computable General Equilibrium (CGE) Model for Thailand Incorporating Natural Water Use and Forest Resource Accounting

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by

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1. Introduction

The aim of this paper is to present a conceptual framework for incorporating environmental feedback into macroeconomic models. A Computable General Equilibrium (CGE) model for Thailand is used to illustrate how this may be done for two natural resource sectors that have severe environmental consequences. The first illustration describes the incorporation of natural water use into the CGE model. Normally the sector responsible for the management and production of natural water for production and consumption does not explicitly appear in the National Accounts or the Input-Output table in Thailand, as natural water is supplied at zero charge to users. The present paper describes how the model may be modified by incorporating water as a separate productive sector in the Social Accounting Matrix (SAM) of the economy, which is then used to construct the CGE model. Similarly, forest resource accounting is not fully integrated into the National Accounts. The second illustration describes how this may be done by expanding the SAM and modifying the CGE model accordingly. Subsequently, simple simulations are carried out to look at economy wide impacts of removal of water subsidies, taxation on forest benefits, as well as combinations of the two.

The major contribution of the paper lies in its educational value and its description of a methodology for incorporating environmental feedback into macroeconomic modelling. The method can be used to simulate various policy options, examples of which are provided in the present paper. The accuracy of these simulation results and the numbers used should be treated with caution since the base year SAM dates back to 1987. The method of arriving at the results is however theoretically sound and could be used with updated information and data to arrive at results that reflect more accurately the present situation in Thailand.

Section 2 of the paper explains the basic structure and different accounts of the SAM, and how it may be expanded to include water and forest resources as distinct sectors. Two types of water resources, natural water and pipe water, are considered. Section 3 describes the link between the SAM and the CGE model as well as the model specifications using the transactions value approach to CGE modelling. This section also gives a brief description of the CGE model and its key accounts. Section 4 of the paper presents and analyses the results of three sets of simulations to illustrate the possible use of the model for policy analyses. The first set relates to the removal of subsidies on water, both for the natural water sector and for pipe water. Five scenarios with different levels of subsidy removal are considered. The second set of simulations analyses the impacts of taxes on forest benefits, and the third set combines the full removal of subsidies on all types of water with a tax on forest benefits. Simulation results are analysed for their impact on overall GDP as well as for their sectoral implications. The final section of the paper concludes.

2. Expanding the SAM

The first step in building a model incorporating natural water use and forest accounting is to integrate these aspects into a Social Accounting Matrix (SAM) of the economy. Normally, in economies where natural water is supplied at zero price to the population (whether for agricultural use or for the conversion to pipe water) the management and production of natural water (e.g. reservoirs needed for the management of water flow) is not explicitly included as a production sector in the National Accounts or the Input-Output table. This is the case in Thailand. Previous SAMs for Thailand used data from the National Accounts, Input-Output tables, and household surveys, and thus did not have the production and management of natural water explicitly in the SAM.¹ In fact, the management and production of natural water require resources provided by the public sector, and therefore should be explicitly separated out in order to clearly see the resource flows in the economy.

The case of forest resources is similar to that for natural water. Standard National Accounts do not adequately treat the resource cost in exploiting forest resources. Data from input-output tables indicate very high ratios of operating surplus to total output for the forestry sector. This suggests that a large part of the operating surplus is attributable to free resources from nature, e.g. fully grown trees in the forest that the sector does not have to pay fully for. Exploitation of forestry resources will however generate costs to the economy in terms of a reduction of the stock of trees, decline in the area of the forest etc., which in turn have future economic as well as environmental costs. Thus, the resource cost of utilising forests for economic benefits should be explicitly separated out as a first step in modelling the link between current forest utilisation and future costs.

2.1 Base SAM

In this section, a SAM for Thailand incorporating the natural water and pipe water and forest accounting is constructed as the basis for building a CGE model of the economy. To avoid complications, the SAM is deliberately kept small while containing all the key production sectors, factors of production and economic institutions.² The starting point is the SAM that was built for the CGE model constructed to analyse the impact of structural adjustments on the environment in Panayotou and Sussangkarn (1991). This was a very large SAM with 90 production sectors and was based on 1987 national accounts and trade data.³ For the current exercise, this large SAM was aggregated to leave only 7 production sectors, as follows:-

1. Agriculture
2. Forestry (including firewood and charcoal)

1 Many SAMs have been built for Thailand for various analytical purposes, e.g. Chewakrengkai and Lamsam (1982), Sussangkarn, Tinakorn and Chongpeerapien (1988), Panayotou and Sussangkarn (1991), and Deverajan and Sussangkarn (1992).

2 For future modelling work the SAM and CGE model could easily be expanded.

3 The data were based on the old series of national accounts with 1972 as the base year. Recently, the NESDB has revised the national accounts to a new series with 1988 as the base year, with some revisions also to GDP at current prices. Thus, the data in this SAM may not correspond exactly to the new national account series.

- 3 Milling
4. Industry
- 5 Water Production (pipe water)
- 6 Public Administration
7. Services

Even though the SAM has only 7 production sectors, tracing out the income and commodity flows in the economy necessitates the need for many more accounts in the SAM. In this SAM there are altogether 54 accounts; 7 activities or production sectors, 5 types of imported commodities, 5 types of composite commodities which are combinations of an imported commodity with the corresponding domestically produced commodity (composites are useful for modelling purposes to take into account the fact that domestically produced commodities and imported commodities of the same category are imperfect substitutes⁴), 7 accounts for total value added of the various sectors, 8 accounts for various components of value added (such as land, labour, capital and composites), 3 accounts for taxes, 6 account for final demand, 5 rest of the world (ROW) accounts to be able to construct the current account, 4 institutional current accounts (household, private corporation, government and state enterprises), and 4 institutional saving-investment accounts. The full SAM is given in Table A1 of Annex A, with the values in millions of baht. While the SAM is a square matrix, in this table the SAM is shown account by account. For each account *j*, the expenditure column gives the payment from account *j* to each of the other accounts *i* with non-zero entries. This corresponds to entries along column *j* of the SAM. The income column shows the payment that account *j* receives from each of the account *i* with non-zero entries. This corresponds to entries along row *j* of the SAM.

The key point about a SAM is that the accounts must all balance. That is receipts equal expenditures (or demand equals supply) for all accounts. This is the case for the SAM in table A1 (subject to minor rounding errors). Box A1 in Annex A give a useful description of the income and commodity flows in the economy.

2.2 Expanded SAM with Natural Water Sector and Forest Accounting

2.2.1 Natural Water

A broad discussion of water use and how one might integrate it into the SAM is contained in the CREED working paper by Kumar and Young (1995). Here only the production and management of natural and pipe water is included. The inclusion of ground water and recycled water is left for future extensions.

The natural water sector refers to the management and distribution of water held in reservoirs and behind dams for use by other activities. The three main uses in Thailand are for

4 See below when the model is discussed

5. The reason that the non-investment income and investment income parts are separated out is because interest payment is an important component of the current account of Thailand

6 The payment to households from private corporations (CUR-ACC P-CORP) are mostly interest earnings and dividend payments

- irrigation for agriculture,
- conversion to consumable water (pipe water), and
- for electricity generation

The usage for power production (electricity generation) is ignored in the current exercise. The main reason is that the usage of the water behind dams for electricity generation does not generally preclude the use of the water for the other two purposes. Thus, here the natural water sector is assumed to produce water for either irrigation, or for conversion to consumable water by the water production sector of the base SAM. Both these users of the natural water sector's output currently pay no charge for these uses. Thus, the value of natural water use does not appear as part of the input of these two sectors in the base SAM. Implicitly, however, resources for the natural water sector are included in the base SAM, as the natural water sector is part of the government sector (the Royal Irrigation Department is part of the government sector). Thus, to expand the SAM to include a natural water sector, expenditures of the government for the management and distribution of natural water needs to be separated out from the public administration sector of the base SAM.

To facilitate discussion, the expanded SAM with a natural water sector and forest accounting is presented and explained in table A2. This SAM includes an additional production sector, the natural water sector (as account 5), making 8 production sectors in all, and has altogether 64 accounts. For the natural water sector, an estimate is made of the resources expended in the production (management and distribution) of natural water by basing on the budget of the Royal Irrigation Department (RID). In 1987 (the year of the base SAM), the operating budget of the RID (excluding investment expenditures but including maintenance costs) came to 4,253.3 million baht. This is assumed to be the value of the output of natural water used for irrigation in agriculture and by the water production sector (as in the base SAM). The budget for RID gives wage payments as coming to 1,915.6 million baht and maintenance costs as 1,570.3 million baht. The rest of the budget is assumed to be spent on intermediates needed for natural water production (valued at 767.4 million baht). Short of information on the intermediate input structure for the production of natural water, it is assumed that the structure is the same as that for the water production sector. This gives the picture for natural water production as shown in account 5 of the expanded SAM (table A2). A slight refinement is introduced to take into account the fact that the natural water sector also takes up land area in the storage of natural water in reservoirs and behind dams. Short of accurate information on the amount of land involved, it has been assumed that the area comes to 1% of the area of land used in agriculture, and a rent of 1% of the value of imputed rent of land used for agriculture is imputed for land use for the production of natural water.⁷ This is subtracted from the operating surplus (maintenance or depreciation costs) of the natural water sector. This can be seen in account 24 (VA-TOTAL NATURAL WATER). Total value added for this sector is assumed to be made up of wages (account 43, V-ADD GOVERN EMPLOYEE), operating surplus (account 38, V-ADD O SURPLUS GOV), and imputed rent for land (account 32, V-ADD LAND NAT WAT). Introducing an account for land use in natural water production will become very valuable for modelling purposes, as this

⁷ If estimates are available on the amount of land area taken up for water storage in reservoirs and dams, then this will lead to a more accurate estimate of the imputed rent.

will allow an explicit link between water production and land use, and thus analysis of land use conflict between agriculture, forestry and water production, an issue which is becoming more and more important in most countries including Thailand

To keep the public expenditures as in the original base SAM (and to ensure that the SAM continues to be balanced), the expenditures for activity 5 have to be subtracted from the public administration account of the original base SAM as this already includes the RID. This leads to a new public administration account in the expanded SAM (account 7) with the expenditure values for this account (on commodities, wages and operating surplus) equal to the original values in the base SAM subtracted by the corresponding values of the natural water sector in the expanded SAM. This account is basically public administration exclusive of natural water production

Having dealt with the production of natural water, the relative usage of natural water for irrigation in agriculture and for the pipe water production needs to be estimated. Current data from the RID on water usage from major dams and reservoirs indicate that about 64.2% goes to agriculture and the rest for water production. This ratio is assumed in constructing the expanded SAM. Thus, looking at account 5, it can be seen that out of the 4,253.3 million baht of natural water production, 1,343.2 million baht is used as intermediate input into the water production sector (income to account 5 from account 19, COMBINE INT MED WAT.PRD), and 2,910.1 million baht is used in agriculture via being combined with land for agriculture into a composite (income to account 5 from account 28, COMBINE LAND.WAT AGRICUL)

Natural water is clearly an intermediate input into the water production sector. Thus, it is combined with other intermediate inputs of the water production sector into a composite (or combined) intermediate input in account 19. However, as the water production sector gets free usage of natural water, part of the combined intermediate input also includes a subsidy equal in value to the value of the natural water used in water production. This ensures that the total value of intermediate inputs used in the water production sector is as in the original base SAM, and is therefore consistent with the National Accounts and the Input-Output table. This also corresponds to the actual situation. In the base SAM, the production of natural water was part of the public administration account. Natural water is certainly an input (and an important one!) into the water production sector. The fact that this does not appear explicitly in the base SAM is because it is using natural water free of charge, i.e., it is being subsidised by the government equal to the value of the natural water that it uses. Finally, for the water production sector, it should be noted from account 6 that in spite of being subsidised fully for the use of natural water, the sector still cannot cover its costs (because of pricing policy), so that the government also subsidises the output of the sector by an additional 2,039.3 million baht (payment from account 6 to account 39, V-ADD INDIRECT TAX of -2,039.3 million baht). Thus, total subsidy to the water production sector amounts to $1,343.2 + 2,039.3 = 3,382.5$ million baht, or about 67% of the value of the sector's output.

The use of natural water in agriculture is mainly for irrigation. In Thailand, with plenty of rain during the rainy season, irrigated water is not so important during the rainy season. What irrigation allows is double or triple cropping. Thus, the impact of irrigation is basically to allow more than a single use of the same piece of land for agriculture during the year.

Thus, this is the same as increasing the effective cultivated area for a given amount of land. Because of this, natural water usage in the agricultural sector is treated differently to its usage for water production. Rather than being treated as an intermediate input, natural water is combined with land for agriculture in account 28 (COMBINE LAND WAT AGRICUL). However, in reality the use of natural water in agriculture is free, so that the implicit value of natural water is already part of the rental on agricultural land. Thus, the subsidy for natural water is subtracted from account 28 equal in value to that of natural water used in agriculture. The whole accounting for the agricultural sector is therefore in balance as in the base SAM.

Finally, the government account needs to be in balance. Expenditures for the new public administration sector (account 7) is net of expenditures for the natural water sector, so it is less than in the base SAM. Thus, payment from the current account of the government (account 59) for public administration (account 7) will be less than in the base SAM by an amount equal to the value of the natural water sector. To remain in balance, income for the government's current account will also be less. This is precisely the case because subsidies to the natural water sector must be subtracted from total government revenue (income to account 59 from account 42, SUBSIDY NATURAL WATER). Thus, the current account of the government is also in balance.

In the expanded SAM, the complete picture on water production and use is as follows.

Water Production and Use

	Million Baht
Output Natural Water	4253.25
Agriculture use	2910.07
Water Production use	1343.18
Output Water Production	5038.40
Agriculture use	5.50
Milling use	56.94
Industry use	872.90
Public Administration use	368.84
Services use	2950.00
Consumption	784.22
Subsidy Natural Water	4253.25
Subsidy Water Production	2039.34

2.2 2 Forest Accounts

The SAM is expanded to take account of the “net rent” as a result of the cost of forest utilisation. Basically, part of the value of the forestry (logging) sector comes freely from nature, e.g. fully grown trees in the forest that the forestry sector does not have to pay fully for. The free resources from nature will lead to a higher level of operating surplus than what a “normal” rate of profit would lead to. If a “normal rate” of profit could be estimated, then the rest could be attributed as “net rent” from exploitation of forest resources.

From the base SAM, the value of the forestry sector (activity 2) comes to 17,068 million baht, of which 9,877 million baht is from value added at factor cost (account 19 in table 1). Within value added, 835 million baht is estimated to be from imputed rent on land and 902 million baht is estimated to be from wages. This leaves 8,140 million baht as operating surplus (including depreciation), or about 48% of the value of the sector’s output net of indirect taxes. This ratio of the operating surplus to total output is very high, and is indeed much higher than for any other sectors. This suggests that only a part of the operating surplus is from “normal profit” and the rest should be imputed to “net rent”.

To get an estimate of the normal profit for the forestry sector from the base SAM, it is assumed that the capital-labour ratio in the forestry sector is the same as that in agriculture. This is likely to be fairly reasonable, especially as the forestry sector contains a large component of “firewood and charcoal” whose raw materials are simply collected from the forest by the rural population. Assuming that both capital and labour are fully mobile between the agriculture and forestry sectors, then the ratio of wages to operating surplus should be the same in both sectors. Assuming that the operating surplus in the agricultural sector reflects a “normal” return to capital, it is then possible to impute a “normal” operating surplus for the forestry sector, with the rest of the operating surplus attributed as “net rent”. This has been done in the expanded SAM (table A2).

In the expanded SAM, normal operating surplus of the forestry sector is estimated to be 364 million baht. Compared with an operating surplus of 8,140.3 million baht in the base SAM, this leaves 7,776.3 million baht as net rent. An account has been introduced for net forest rent (account 40, NET RENT FOREST BENEFITS) and this account is combined with land for forestry into a composite primary factor (account 29, COMBINE LAND FORESTRY) for the forestry sector. For modelling the impact of taxes on forest benefits, account 41 (TAX FOREST BENEFITS) has also been introduced.⁸

In the expanded SAM, forestry supply and use is given below

8. An arbitrary small value is assumed to be attached to this account (0.1). This is purely for convenience in performing the simulations as the software that is used for building the CGE and simulation allows convenient analysis of the impact of some given percentage change in the tax rate, which requires that the base tax rate be non-zero.

Forestry Supply and Use

	Million Baht
Output Forestry	17068 368
Imported Forestry	647 904
Total Supply Forestry	17716 273
Agriculture use	551 400
Forestry use	1995.960
Milling use	37.700
Industry use	3314.750
Services use	974 870
H-H consumption	10901 791
Net investment	-449.310
Exports	389.110
Land forestry	835.514
Net rent forest	7776.345

3. Model Specifications

As earlier indicated, a key feature of the SAM is that all accounts must balance. In terms of commodity flows and factor use, this is equivalent to the requirement that demand equals supply for all sectors. Thus, the picture of the SAM can be regarded as an equilibrium situation of the economy. This makes the SAM an ideal tool for building a CGE model. If one could specify the determinants of the various entries in the SAM based on economic foundations, then to solve the CGE model, one would need to find prices and quantities that would lead to a balanced SAM.

The close link between a SAM and a CGE model was recognised in modelling work at the World Bank starting towards the end of the 1970s, and software to make it easy to build CGE based on a SAM was developed. The model here uses a software called SAMLIB⁹. The program implements the Transaction Values (TV) approach to CGE modelling. Basically, the model builder has to specify how each cell of the SAM is determined. To make the process easy, the software allows the model builder to choose from a number of pre-defined specifications (or TV values) which are broad enough to cover most standard CGE models. A "User" specification is also allowed to handle "non-standard" specifications, and the modeller needs to supply his/her own FORTRAN subroutine. Apart from specifying the behaviours of each element of the SAM, the modeller has also to specify whether each account has an associated price, quantity and value attached to it, or whether it only has a value attached, and whether these prices, quantities and values are endogenous or exogenous (account types). The SAM, the TV and account type specifications complete the model. The software checks the consistency of the model (equations and unknowns) and generates a list of parameters (e.g. elasticities of substitutions, exogenous variables etc.) needed to solve the model. From the

⁹ Programmed by Arne Drud in collaboration with Graham Pyatt and Wafik Grais (1996)

parameters supplied by the modeller, the model is then solved. In the base period, all prices are normalised to one, and the model is solved for equilibrium in the base period that exactly reproduces the base year SAM. With exogenous parameter values supplied for the next period, the model can then be solved to find the new equilibrium. A new SAM together with prices, quantities and values are generated. This is the new equilibrium with demand equals supply for all commodities and factors. The modeller can supply parameter values for future periods, and the process continues.

The transaction values approach and the economic derivations of the TV specifications are described in Grais (1982). The predefined TV specifications available in the SAMLIB program is given in table A3.¹⁰

The current model's TV specifications and account types are given in tables A4 and A5 respectively. A brief description of the model is given below.

3.1 Production

Intermediate inputs in each sector of production was treated as in a Leontief type model, so that the input-output table had fixed coefficients in quantities, i.e. the quantity of commodity *j* needed to produce one unit of commodity *i* was assumed fixed. For example, in account 4 (ACTIVITY INDUSTRY), specification 12 (Leontief) is used in payments from account 4 to the various intermediate inputs (accounts 1-18). The intermediate inputs were also combined with value added in fixed proportions (payment from account 4 to account 23 is also a 12 specification). Payment of indirect taxes is modelled as a fixed share of the value of production net of taxes (specification 4), but this share is an exogenous parameter which can be changed in the simulations.

Factors of production are substitutable. For example, account 23 (VA-TOTAL INDUSTRY) is made up of a combination of wage and capital payments. These are combined using specification 11, factor demand equations from a constant elasticities of substitution (CES) production functions. If capital became more expensive, then some labour could be substituted for capital according to the value of the elasticity of substitution.

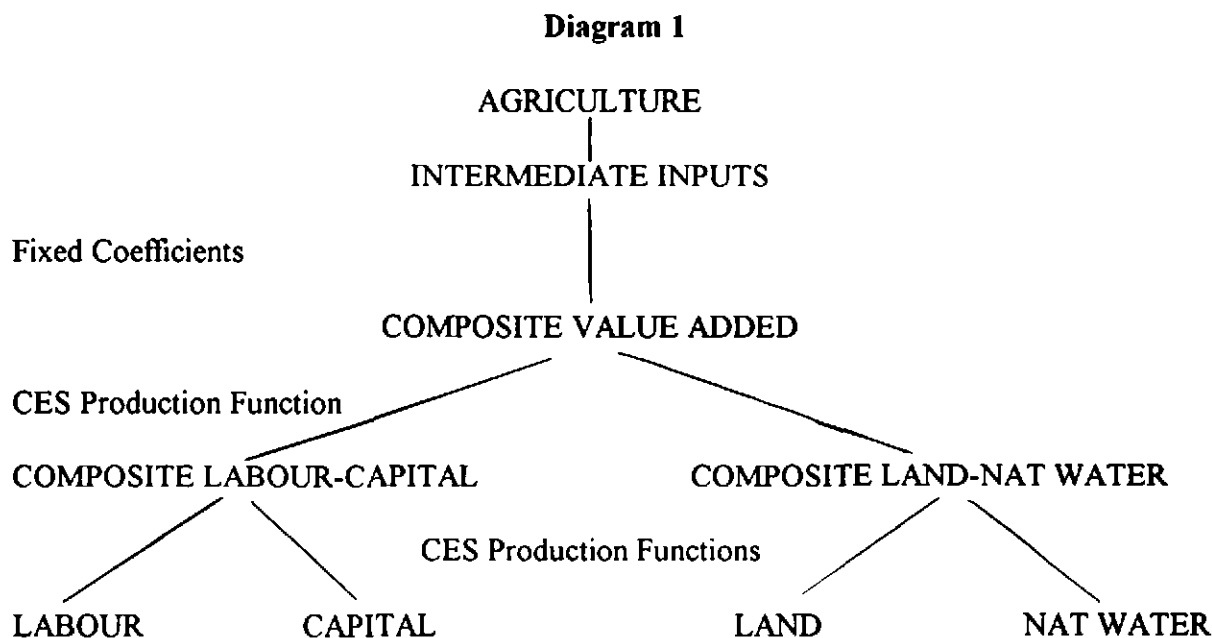
For some sectors which use land as a primary factor, a two stage CES production function was used to allow different elasticities of substitution for different inputs. In agriculture, land and natural water are combined into a composite (account 28), and labour and capital are combined into another composite (account 33). These composites are then combined into value added (account 20). This allows the elasticity of substitution between land and natural water to be different to that between capital and labour. The structure for the agriculture sector is shown in diagram 1 (ignoring taxes).

For the forestry sector, a slightly different treatment is carried out as shown in diagram 2. As with agriculture, labour and capital is combined into a composite. In the forestry case land is combined with forest benefits (net rent, account 40, NET RENT FOREST).

¹⁰ The SAMLIB software was later made easier to use and developed into a package called HERCULES. See *Drud and Kendrick (1986)*.

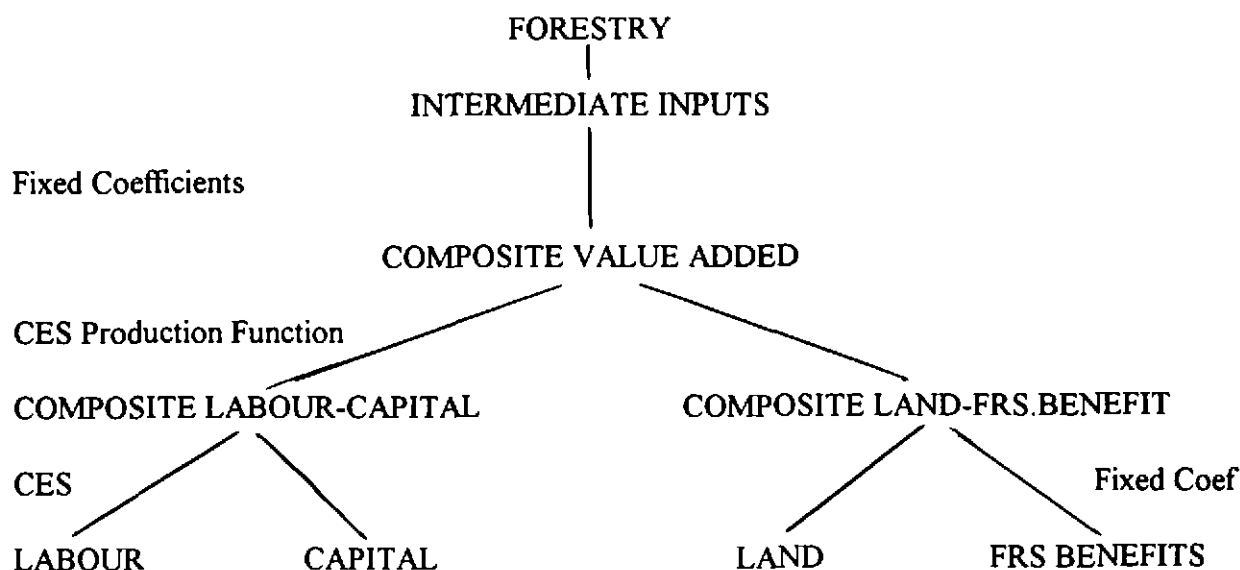
BENEFITS) However, in combining land with forest benefits, a fixed coefficient is assumed to capture the fact that the benefits are not substitutable with land, but depends directly on the extent of land exploited for forestry.

For natural water production, the price of natural water is taken as exogenous (policy variable),¹¹ and with fixed coefficients for the intermediates, the value of value added becomes a residual (specification 2 for payment from account 5 to account 24) In the case of the water production sector, all the intermediates are first combined into a composite including the use of natural water in account 19 There is also a subsidy rate on the combined composite to capture the subsidy on the use of natural water as an intermediate into water production



¹¹ The price for natural water is related to the subsidy policy of the government For simulations to analyze the impact of subsidy reduction, one can either work with this exogenous price variable, for directly with the subsidy rates

Diagram 2



3.2 Commodities

Domestic commodities and imported commodities are combined according to a CES into a composite commodity to reflect the fact that imports and domestic commodities are not perfect substitutes, especially at the levels of aggregation that is used here (accounts 14-18) These composites are then used in production, consumption and investment As already described in the discussion of the base SAM, some domestic commodities are used directly without being combined into a composite with imports Indeed, exports are only composed of domestically produced commodities (account 47)

Because of the combinations of imports with domestic commodities into composites, the shares of import in the composite will depend on the relative prices of the imported and the domestic commodities If domestic price rises, then a given unit of composite will tend to contain more imports The elasticity of substitution will govern the degree to which the import shares respond to a change in the price If the elasticity of substitution is very high then any slight change in relative prices will bring about large changes in relative shares.

3.3 Factors of Production

There are five primary factors of production, land for agriculture, land for forestry, land for natural water, capital and labour For the current model, the treatment of land is fairly simple. The quantities of land for agriculture and natural water are taken as exogenous For the forestry sector, the rental or opportunity cost of using the land to the sector is taken as exogenous and the quantity of land is endogenous As a significant part of forest utilisation is

from encroachment, the assumption that the rental is exogenous while the amount of land used is endogenous is a more accurate reflection of the actual situation than the reverse case. For *future modelling exercises, more refined treatment of land use could be carried out* For example, in Panayotou and Sussangkarn (1991), land use in agriculture changes endogenously from period to period depending on the relative performance of the agricultural sector. This could be easily done in the SAMLIB program via an inter-period subroutine to update exogenous variables between periods based on past solutions of the model. Further, with land being used in agriculture, forestry and the production of natural water, *analyses of land use conflict could be carried out, and the expansion in land use for agriculture and the production of natural water could be linked to the loss of forest benefits as well*

Within a given period, the quantity of capital in the economy is assumed to be exogenous (account 37, V-ADD OPERAT SURPLUS) Capital is, however, assumed to be fully mobile across sectors. Across periods, the amount of capital can be updated based on the size investment The total amount of labour is also assumed fixed within the period, and labour is mobile across sectors The account that represents the total amount of labour in the economy is account 35 (V-ADD WAGES AGRICUL) As can be seen from table A4, this account does not just get income from agricultural sectors (agriculture and forestry) but also from non-agricultural employment and government employees For payments to account 35 from accounts 36 and 43 specification 26 (User Specification) are used The specifications for payments from account j ($j=36,43$) to account i ($I=35$) is

$$t_{ij} = P_i * Q_j$$

i.e. the quantity of labour in account j times the wage of account i . Thus, for example, for payment from employment in non-agriculture to account 35, the amount equals the amount that those employed in non-agriculture would receive if they were paid the agricultural wage Therefore, the value of account 15 equals the total supply of labour in the economy valued at the agricultural wage This means that the shares of income of account 35 coming from agriculture, forestry, non-agriculture and government employees reflects the share of employment in these various sectors Basically, in this model there can be a wage differential between agricultural and non-agricultural and government employment, and these wage differentials changes endogenously in the model For agricultural and non-agricultural employment, both the wage and employment are endogenous. For government employment, both the level of employment and the wage are assumed to be exogenous

3.4 Final Demand

There are 5 types of final demand Consumption by households, consumption by the government, consumption by tourists, export and finally investment (including change in stock) Each export was assumed to have a constant elasticity of demand depending on the *relative price between the domestic price and the world price (expressed in foreign currency through a fixed exchange rate)* as well as a trend factor This is reflected in TV specification 7 used account 47 Tourists consume commodities in fixed quantity shares, but the total tourist demand is also like an export demand function (specification 7 in the payment from account 50, R-O-W NINV INC, to account 49, FINAL-D TOURISM)

Government consumption consists of the intermediate demand in activity 7, **ACTIVITY PUBLIC ADMIN**. The various commodities are assumed to be consumed in fixed quantity shares, and the total consumption is exogenous (specification 3 in the payment from account 59, **CUR-ACC GOV**, to account 7). Household consumes an exogenous proportion of its income (specification 4 in the payment from account 57, **CUR-ACC H-H**, to account 44, **FINAL-D PRIVATE CONSUMPT**), and consumes commodities in fixed quantity shares. This is the most simple specification. For more refined treatment, one could specify a function for total consumption by a "User" specification, and specify consumption shares using a linear or non-linear expenditure system which are available in SAMLIB (specifications 5, 6, and 16).

Investment (including change in stock) is taken as exogenous in the model. This means that the current account (investment-saving gap) is endogenous. This is one of a number of alternative macroeconomic closures of the model. For example, it is also possible to specify the current account as exogenous, with investment as endogenous. The appropriate specification will depend on the type of analysis being carried out. For the simple simulations carried out below, having investment as exogenous is not a major issue.

3.5 Taxes

Indirect taxes (account 39) put wedges between producer prices and consumer prices. In the case of the indirect tax on water production, the tax is negative, so there is a subsidy from the government. Subsidies are also paid by the government for the use of natural water as earlier discussed. The import taxes (account 55) put wedges between c i f prices of imports and the consumer prices. The export taxes (account 56) make domestic prices lower than export prices. Income tax is collected from households (payment from account 57 to account 59) and is assumed to be an exogenous proportion of household income. Corporation tax is collected from private corporations (payment from account 58 to account 59) and is also assumed to be an exogenous proportion of corporation's income.

3.6 Incomes

The four economic institutions (households, private corporations, government and state enterprises) derived incomes from claims on the factors of production and various transfers. The transfers are assumed to be either exogenous in value or as an exogenous share of the income of the accounts making the transfers. Households also obtain as part of its income the net rent from forest benefits (account 40), and government gets the taxes.

3.7 Quantities, Prices and Values of SAM Accounts

Most of the quantities, prices and values for each of the SAM accounts are endogenous (see table A5), except for quantities of the factors of productions and some prices as discussed above. The exogenous price for net forest benefits is purely for modelling purposes. For specification 12 (Leontief) which was used in the payment from account 29 (**COMBINE LAND FORESTRY**) to account 40 (**NET.RENT FOREST BENEFITS**) a price

is required for both the row and column ¹² Finally, the exogenous prices for accounts 47 (FINAL-D EXPORTS) and 50 (R-O-W GD&SRV NINV INC) refer to the price of the nominal exchange rate

3.8 Macroeconomic Closure and Determination of Equilibrium

Given the various specifications of the cells in the SAM, and the endogenous variables in the system, the search for a new equilibrium after some changes in the exogenous variables involves finding a vector of relative prices that will lead to all markets clearing, product markets, factor markets and the foreign exchange market. The solution process will depend on what type of macroeconomic closure is assumed. In the current specification, investment is exogenous and the current account endogenous. The determination of equilibrium would work as follows. Given a vector of relative prices (the exchange is fixed and can be taken as the numeraire), and the exogenous demands (government consumption and total investment), the commodity and factor demands would be determined. This will determine the level of incomes, and also the current account deficit on the trade side. The incomes determine the savings. However, there may not be an equilibrium in the foreign exchange market. Thus, the current account deficit generated on the trade side may not be equal to the difference between the fixed level of investment and the saving generated from the incomes. Thus, the vector of prices is not an equilibrium, and a new vector of prices has to be tried. The equilibrium price vector will clear all the product markets, and also generate precisely the same current account gap from the trade side as from the saving investment side. Basically, the equilibrium price vector will generate a balanced SAM as the new solution.

4. Simulations and Analyses

In this section, three sets of simulations are carried out to illustrate the possible use of the model for policy analyses. The first set of simulations analyses the impacts of a removal of subsidies on water, both for the natural water sector and for the water production or pipe water sector. Five scenarios are presented: a full removal of subsidies on natural water and pipe water (from the water production sector), a cut in subsidies by fifty percent on natural water and piped water; a twenty percent cut in subsidies on natural and piped water, full removal of subsidies for the natural water sector only, and, a full removal of subsidies for the water production sector only. The second set of simulations analyses the impacts of taxes on forest benefits equal to the value of the forest benefits. The third set of simulations combines the full removal of subsidies on all types of water with a tax on forest benefits.

To carry out simulations with the model, various exogenous parameters need to be specified. Table A6 lists the various parameters required for the model. ETA denotes elasticities of the export demand function (TV specification 7), and SIGM are the elasticities of substitution of the CES function, required for combining various commodities or factors.

¹² Account 42 (SUBSIDY NATURAL WATER) does not really need to have a price as the specification 4 used for payments to this account does not need a price. However, it was assumed to have an exogenous price in case the specifications of payment to this account was revised to another specification in an alternative model, e.g. specification 12.

into composites. These elasticities (ETA and SIGM) are required for all periods including the base period.

The other parameters (C, F, R, THET, PIM, PIX, P, Y, Q) are not required for the base period, but are required for future simulation periods. In the base period, these parameters are derived from the base year SAM. C is the share parameter. Thus, operating surplus (account 37) is allocated to households, private corporations and state enterprises according to given shares. F corresponds to exogenous values in specification 3. This is mainly used for various exogenous transfers or exogenous final demands. R is the export trend parameter in the export demand function. THET is the tax rate in specification 4. PIM is the foreign price of an imported commodity, and PIX is the foreign price of an exported commodity. Finally, P, Y, and Q are exogenous prices, values and quantities that are in the model.

For the elasticities values, econometric estimations could be used where data availability allows. In many cases, however, data are not available for an accurate estimate. In this situation, judgement needs to be used based on intuition and on the performance of the model under the assumed elasticities. Where the CGE model is used to track the performance of an actual economy, tracking performance can provide a guideline on the range of parameter values that leads to a close fit to actual developments. For the current simulations, a set of base elasticity values are assumed based on values that have yielded good tracking performance for other similar CGE models of the Thai economy, and on intuition for some parameters that do not exist in other CGE models sensitivity analysis using a range of elasticity values has also been carried out.

The assumed base values of the elasticities are given in table A7. For ETA, all the export demand elasticities are assumed to be elastic (> 1), with the values for sectors related to agriculture equal to 2.0, while the rest are assumed to be 1.2. For SIGM, the elasticity of substitution in combining domestic and imported commodities of agriculture and milling are assumed to be inelastic (0.8). This is because agricultural (and milling) imports are generally very different commodities to those produced domestically by these sectors. The elasticity for forestry is assumed to be fairly high (4.0), reflecting similar usage of domestic and imported wood. For industry and services, the elasticities are assumed to be elastic but close to 1 (1.2).

The SIGM value for account 20 refers to the elasticity of substitution between the land-water composite and the labour-capital composite in agriculture. This is assumed to be fairly inelastic, with value of 0.6. The same value is also used for SIGM in account 24, for the elasticity of substitution between the land and labour in the production of natural water. These assumption basically reflects the importance of land usage for these sectors. For the other elasticities, e.g. substitution between labour and capital, the values are set at 1.2 except for the elasticity of substitution in account 28. The elasticity in account 28 (COMBINE LAND.WAT AGRICUL) refers to the substitutability between land and water in agricultural production. From earlier discussions, irrigated water allows multiple use of a given piece of land in a given year. Thus, water and land in agriculture are very good substitutes, and the elasticity for this account is set at 2.0.

4.1 Removal of Water Subsidies

The first set of simulations analyses the impacts of removing subsidies on water resources. Five scenarios are described below.

Scenario 1: Full removal of subsidies on natural water and piped water

In the base situation, subsidies are given for the use of natural water in agriculture and for losses of the water production sector. The subsidies correspond to payments from account 19 (COMBINE INT MED WAT PRD) to account 42 (SUBSIDY NATURAL WATER), and from account 28 (COMBINE LAND.WAT AGRICUL) to account 42. The TV specification for these cells is specification 4 (tax rate). To remove these subsidies, the percentage in THET values for these cells are set to -100% in period 1 (period 0 being the base period). Apart from subsidies to the natural water sector, there is also a subsidy to the water production sector, payment from account 6 (ACTIVITY WATER PRODUCT) to account 39 (V-ADD INDIRECT TAX). In the simulation, the percentage change in THET value is also set to -100%.

In simulating the impacts of the removal of water subsidies, care is needed. If subsidies are removed, total government expenditures decline. Thus, with everything else the same, government saving increases, economic activity is reduced and the current account improves. Thus, the results would be from a combination of subsidy removal and an increase in government saving. To see the impacts of subsidy removal alone without the effects of an increase in government saving, other taxes should be reduced to maintain the same net government saving as in the base situation. In the present case, other indirect taxes are reduced proportionately to keep the government saving the same as in the base situation. This will show the pure impacts of water subsidies removal.

The detailed results of the simulation is given in table A8 of Annex A and summarised in table 1 below. (In this table A8, the "0" column refers to the base situation, and column "1" gives the results of the removal of water subsidies.) Looking at the "government account" part of table A8, it can be seen that all water subsidies have been removed. However, other indirect taxes have also been reduced and government saving remains at about the same level as in the base situation. The "indirect tax rates" part of table shows the changes in the other indirect tax rates.

In the "water account" of table A8, the production and use of the natural water sector and the water production sector are given. As expected, the production of natural water declines substantially. However, on the demand side, the decline occurs only for agriculture. The demand of natural water for water production goes up, and the output of the water production sector actually increases. Most sectors show an increase in the use output from the water production sector. The reason for this is that overall economic activity actually increases from the removal of water subsidies. In the "sectoral output" part of table A8, it can be seen that, except for milling and natural water production, all the sectoral outputs increase, including that for agriculture, and total output of the economy also increases.

The “factor use and income” and “factor prices” parts of table 8 shows the resource allocation and factor prices in the economy. As expected, with removal of water subsidies, the rental price for land in agriculture and land for natural water production declines. Having to pay for water, the agricultural sector tries to substitute the labour-capital composite for the land-water composite. Capital is fully mobile, and the rental on capital increases slightly for the whole economy. The new equilibrium shows an increase in agricultural wages and a decline for non-agricultural wages. Thus, the wage-rental ratio increases in agriculture and declines in non-agriculture, and the wage gap between non-agriculture and agriculture declines. Basically, agricultural production becomes more capital intensive while non-agricultural production becomes more labour intensive. In the new equilibrium, there is a relocation of capital from the services sector to the other sectors, and a relocation of labour from agriculture and forestry to the non-agricultural sectors. Thus, the removal of water subsidies leads to more mechanisation in agriculture, and more labour intensive production in non-agriculture.

Overall real GDP increases (see table and A8). Only milling and the natural water production sector show declines in real GDP. This result shows that the removal of water subsidies leads to better resource allocations in the economy. In fact, this result should not be too surprising. Basically, the water subsidies lead to a large variation in indirect tax rates across sectors. With their removals, the indirect tax rates become more uniform. This can be seen if we compute the coefficient of variation of the indirect tax rates from the “indirect tax rates” part of table A8. In the base situation, the coefficient of variation of the indirect tax rates comes to -2.196, while after the removal of water subsidies, the coefficient of variation becomes 1.182. The more uniform indirect tax rates after the removal of the water subsidies leads to better resource and efficiency gain for the economy.

From tables 1 and A8, it can be seen that the level of consumer prices also declines even though the price of the water production sector increases by about 66%. The reduction in other indirect taxes to keep the same level of government saving as in the base situation helps to bring down prices. Another important factor is the reduction in wages for non-agriculture, which contributes to the fall in prices in industry and services.

In conclusion, the removal of water subsidies leads to better resource allocation and efficiency gains for the whole economy. There may of course be income distribution impacts, which the current model cannot fully analyse as there is only one household in the SAM. However, if incomes to agriculture are added up (wages, capital and land from agriculture) and compared to that for non-agriculture, then the former increases while the latter declines just slightly. This suggests that income distribution also improves (mainly as an impact of the decline in wage differential between non-agriculture and agriculture). In any case, with better efficiency, taxes and transfers could be used to prevent adverse impacts on income distribution if there are any.

Scenario 2: Fifty percent removal of subsidies on natural water and pipe water

The detailed results for this simulation are given in Table A9, with the summary in Table 1. Looking at the “government account” part of table A9, it can be seen that water subsidies have been halved for both natural water and pipe water. Since other indirect taxes

have also been reduced, government saving remains at about the same level as in the base situation

As expected (see table 1), the output of natural water declines and that of the water production sector increases. The magnitude of change is however less than in the previous case where subsidies were removed by the full amount. Once again there is a decline in demand for natural water by the agricultural sector whereas the water production sector increases its demand for natural water. Consequently the output of the water production sector increases. Overall economic activity increases (except for milling and natural water production) but by less than the previous case

The direction of change in factor prices, factor use and incomes remains the same as in scenario 1 but, as expected the magnitude of change is correspondingly less. Similarly, there is a decline in consumer prices except for the price of piped water which goes up by 31 percent. Overall real GDP increases by 0.25 percent as compared to 5 percent when subsidies are removed by a hundred percent. Thus there are resource and efficiency gains for the economy but these are correspondingly less than in the case when subsidies are fully removed.

Scenario 3: Twenty percent removal of subsidies on natural water and pipe water

The consequences of removing water subsidies by twenty percent are generally in the same direction as for scenarios 1 and 2 (Table A10 and Table 2). The only difference is that with a relatively small reduction in subsidy of twenty percent, agricultural demand for pipe water declines by 0.57 percent along with that for natural water (by 1.6 percent). This may be because the effective price increase of water is too small to warrant a major switch from natural water to pipe water. Thus we have a situation where subsidy removal of twenty percent leads to an overall reduction in water use by agriculture while at the same time marginally increasing the output from this sector by 0.1 percent. It is also found that as the extent of subsidy removed is increased, the demand for pipe water by agriculture goes up, as in the cases described above.

Scenario 4: Full removal of subsidies on natural water only

When only subsidies on natural water are removed, real GDP increases by 0.3 percent (Table A11 and Table 1). The efficiency gains are more than in the case of scenarios 2 and 3 but less than scenario 1 where subsidies are fully removed for both natural water and the water production sectors. There is a marginal decline in agricultural output of 0.02 percent, mainly on account of the fact that agriculture uses less natural water which is not fully substituted by pipe water that is now available at a higher price (19%).

Scenario 5: Full removal of subsidies on pipe water only

Removal of subsidy from the water production sector only, increases GDP by 0.16 percent, thus making it a less attractive option for the economy as a whole than the scenarios 1, 2 and 4 (Table A12 and Table 1). Agriculture uses more natural water as well as more land than in other cases, giving higher levels of agricultural output. However, this is counteracted by somewhat lower growth in the logging sector.

Additional simulations were run to check the sensitivity of the results for different value for the elasticity of substitution between land and natural water for agriculture. It was found that doubling the elasticity to 4 resulted in larger changes in the parameters. The direction of changes however remained unaltered (see Table A13). Similarly, reducing the elasticity to 1.2, gave smaller percentage changes in real GDP, agricultural output, water production, logging output etc (Table A14). This implies that the greater the substitutability between water and land in agriculture, the greater are the efficiency gains of removing water subsidies.

4.2 Tax on Forest Benefits

4.2.1 Tax on forest benefits with no reduction in water subsidies

In this simulation, a large tax is imposed on logging benefits (payment from account 29, COMBINE LAND FORESTRY, to account 41, TAX FOREST BENEFITS). The tax rate is made large enough so that the total tax revenue from the forestry sector is about the same as the value of the forest benefits. As with the above simulation on reduction of water subsidies, other indirect tax rates are reduced so as to keep government saving the same as in the base situation. The detailed results for this case are given in table A15 of annex A and in Table 2 below.

From the "government account" part of table A15, it can be seen that tax revenue from the forestry sector comes to 6,776.20 million baht, which is about the same as the net forest benefit in the new equilibrium. Government saving remains close to the original situation. Table 2 shows that domestic output from the logging sector declines by about 13.68%, which is also the decline in land use for forestry (given fixed coefficient assumptions). Because of lower exploitation of forest land, the net rent from forest benefits also decline proportionately. The price of domestic forestry products rises by about 46% (from the "dom output price" part of Table A15). Because of this, imports of forestry products increase substantially, by 205%, leading to only a slight decline in the overall supply of forestry products. The largest fall in demand comes from the intermediate demand for its own product in the forestry sector and from exports. Other sectors show decreases or increases in forestry product use.

Unlike the case of the removal of water subsidies, imposing a large tax on net forest benefits makes the structure of indirect tax rates less uniform. The coefficient of variation of the indirect tax rates becomes -3.986 compared to -2.196 in the base situation. Thus, efficiency loss is incurred. Overall real GDP declines by about 0.33%. Real "net" GDP also declines (GDP minus net forest benefits), but by 0.22%, which is less than the decrease in real GDP, reflecting the saving from less forest exploitation. The fact that real net GDP also declines is not too surprising. Forest benefits generate multiplier effects in the economy, so that a saving from forest benefits will lead to a larger loss to the economic system than the amount of forest benefits saved.

4.2.2 Tax on forest benefits with full removal of all water subsidies

Unlike the previous case, combining a tax on logging benefits with removal of all subsidies on natural water and water production sectors, leads to an increase in overall real GDP of 0.17 percent and in real net GDP of 0.27 percent (Table A16 and Table 2). As shown in Table 2 domestic output from the logging sector declines by about 13.68%, which is also the decline in land use for forestry (given fixed coefficient assumptions). Agricultural output declines nominally and by less than it did when water was subsidised. The increase in real GDP comes from an increase in output of the industrial sector (0.88 percent as shown in table A16). Real net GDP increases even more than overall real GDP because of the lower deduction of forest rent when subsidies on water are removed. The increase in consumer price of domestic logging products of 46% is accompanied by an increase in the price of pipe water of 66%. Imports of forestry products still increase by approximately 206% as before.

Additional simulations were carried out to test the sensitivity of the results for a tax on logging benefits to changes in elasticity of substitution between domestic and imported forestry products. These results are presented in tables A17-A18. It was found that when substitution between domestic logging and imported forestry products is highly elastic, a tax on domestic logging reduces real GDP by correspondingly larger amounts. The decline in sectoral outputs is also much larger. With an elasticity of substitution of 10 for example, the output of the domestic forest sector falls by 60 percent whereas imports increase by 1307 percent (Table A17). When a relatively inelastic substitution elasticity of 1.2 is considered, forestry product imports increase by just 7.4 percent and domestic logging output falls by 2.3 percent (Table A18). Net real GDP declines marginally by 0.06 percent.

The present analysis of course does not take into account other indirect economic benefits of the forest. For example, having less forest cover may make it more expensive to manage and produce natural water. Thus, there might be a link between forest benefits and the technological coefficients in the production of natural water. Further, the net forest benefit in this analysis basically only covers the economic value of the wood from the forest which is given freely by nature. It does not include benefits from considerations of pure environmental pleasures or from bio-diversity considerations. These latter types of benefits are, however, difficult to quantify objectively, though if some "reasonable" estimates are available they can be easily integrated into the model.

5. Conclusions

This paper has demonstrated how the issue of water pricing, particularly the pricing of natural water, and forest benefits can be analysed in the context of a Social Accounting Matrix (SAM) framework and computable general equilibrium model. Data from government expenditures on the production of natural water and on natural water usage were used to expand the SAM to include a natural water production sector, as well as flows of implicit subsidies to this sector, whose nominal price to users is zero. The forest benefits that fall to the logging sector from the value of fully grown trees provided freely from nature can also be roughly estimated from data in the SAM. Once the appropriate SAM has been constructed, building a CGE model based on the transactions value approach is fairly straightforward. The model can then be used to study the impact of policies to reduce subsidies to the water sector.

(both natural water and pipe water) and to tax forest benefits. Various simulations were carried out in the paper to show the policy impacts. The methodology demonstrated in this paper could be easily applied to similar analyses for other economies, especially where a SAM already exists. The model can also be extended in a number of directions, for example, by integrating other environmental benefits of forests where reasonable quantifications are available, and by also taking into account forest loss of land required for agriculture and natural water production.

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Table 1: Impact of Removing Water Subsidies: (percentages)

	Real net GDP	Agr output	Forest/ logging Output	Natural Water Output	Pipe Water Output	Cons Price (pipe water)	Land Use Agr (Nat.wat)	Agr Use of Pipe Water	Agr Use of Nat water
Full removal of all subsidies	0.493	0.055	0.449	-4.918	0.490	66.148	-3.778 (-7.089)	0.020	-7.414
50% removal of all subsidies	0.243	0.025	0.222	-2.593	0.243	31.255	-1.971 (-3.762)	0.013	-3.902
20% removal of all subsidies	0.096	0.010	0.088	-1.071	0.097	12.064	-0.808 (-1.560)	-0.057	-1.611
Removal of natural water subsidy	0.304	-0.020	0.273	-5.893	0.322	18.530	-4.482 (-8.585)	0.013	-8.762
Removal of pipe water subsidy	0.157	0.064	0.147	0.876	0.139	40.209	0.606 (1.377)	0.110	1.216

Note The above results are valid for an elasticity of substitution of 2 between land and natural water for agriculture

Table 2: Impact of Taxing Logging Benefits and Removing Water Subsidies (percentages)

	Real net GDP	Agr Output	Logging output	Nat Water Output	Pipe water Output	Imported Forestry	Price - pipe water - (Logging)	Land Use. Agr (Nat Water) <Forestry>	Agr Use of Pipe Water	Agr Use of Natural Water
Tax logging benefits	-0.223	-0.102	-13.681	-1.730	-0.338	205.266	0.173 (46.098)	-1.193 (-2.502) <-13.681>	-0.173	-2.372
Tax logging benefits and remove all water subsidies	0.270	-0.046	-13.292	-6.562	0.149	206.576	66.352 (46.087)	-4.953 (-9.421) <-13.292>	-0.007	-9.660

Note The above results are valid for an elasticity of substitution of 4 between domestic and imported forestry products

Annex A

TABLE A1

BASE SAM WITH NO NATURAL WATER SECTOR OR FOREST ACCOUNTING

ACCOUNT NO. 1 ACTIVITY AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	1148.1	1	ACTIVITY AGRICUL	1148.1
3	ACTIVITY MILLING	69255.7	4	ACTIVITY INDUSTRY	369.4
4	ACTIVITY INDUSTRY	12337.8	5	ACTIVITY WATER	5.5
6	ACTIVITY PUBLIC ADMIN	3.3	7	ACTIVITY SERVICES	14602.7
7	ACTIVITY SERVICES	25.8	13	COMPOSIT AGRICUL	5957.9
13	COMPOSIT AGRICUL	126586.2	14	COMPOSIT FORESTRY	551.4
34	FINAL-D PRIVATE CONSUMPT	105.3	15	COMPOSIT MILLING	2219.0
36	FINAL-D CHANGE STOCK	-3263.0	16	COMPOSIT INDUSTRY	38939.9
37	FINAL-D EXPORTS	17843.5	17	COMPOSIT SERVICES	25599.1
			18	VA-TOTAL AGRICUL	132839.3
			32	VADD INDIRECT TAX	1810.6
55	TOTAL	224042.8	55	TOTAL	224042.9

ACCOUNT NO. 2 ACTIVITY FORESTRY

		INCOME			EXPENDITURE
14	COMPOSIT FORESTRY	16678.9	4	ACTIVITY INDUSTRY	944.1
37	FINAL-D EXPORTS	389.1	7	ACTIVITY SERVICES	462.1
			14	COMPOSIT FORESTRY	1995.9
			16	COMPOSIT INDUSTRY	2220.0
			17	COMPOSIT SERVICES	1492.4
			19	VA-TOTAL FORESTRY	9877.3
			32	VADD INDIRECT TAX	76.1
55	TOTAL	17068.0	55	TOTAL	17067.9

ACCOUNT NO. 3 ACTIVITY MILLING

		INCOME			EXPENDITURE
15	COMPOSIT MILLING	76542.9	1	ACTIVITY AGRICUL	69255.7
37	FINAL-D EXPORTS	21503.0	4	ACTIVITY INDUSTRY	3530.9
38	EXPORT RICERUB	23734.4	5	ACTIVITY WATER	56.9
			7	ACTIVITY SERVICES	16889.1
			13	COMPOSIT AGRICUL	3814.5
			14	COMPOSIT FORESTRY	37.7
			15	COMPOSIT MILLING	1163.9
			16	COMPOSIT INDUSTRY	4534.4
			17	COMPOSIT SERVICES	7312.4
			20	VA-TOTAL MILLING	12089.8
			32	VADD INDIRECT TAX	3095.2
55	TOTAL	121780.4	55	TOTAL	121780.5

ACCOUNT NO. 4 ACTIVITY INDUSTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	369.4	1	ACTIVITY AGRICUL	12337.8
2	ACTIVITY FORESTRY	944.1	4	ACTIVITY INDUSTRY	41951.8
3	ACTIVITY MILLING	3530.9	5	ACTIVITY WATER	872.9
4	ACTIVITY INDUSTRY	41951.8	7	ACTIVITY SERVICES	94217.8
5	ACTIVITY WATER	865.9	13	COMPOSIT AGRICUL	41274.1
6	ACTIVITY PUBLIC ADMIN	4342.9	14	COMPOSIT FORESTRY	3314.8
7	ACTIVITY SERVICES	24283.2	15	COMPOSIT MILLING	8023.2
16	COMPOSIT INDUSTRY	561521.4	16	COMPOSIT INDUSTRY	302628.9
34	FINAL-D PRIVATE CONSUMPT	8449.2	17	COMPOSIT SERVICES	66972.0
35	FINAL-D CAPITAL FORMATN	114690.5	21	VA-TOTAL INDUSTRY	224987.2
36	FINAL-D CHANGE STOCK	-12.7	32	VADD INDIRECT TAX	57915.4
37	FINAL-D EXPORTS	81536.2			
38	EXPORT RICERUB	11902.0			
39	FINAL-D TOURISM	121.1			
55	TOTAL	854495.8	55	TOTAL	854495.9

ACCOUNT NO. 5 ACTIVITY WATER

			INCOME				EXPENDITURE
1	ACTIVITY	AGRICUL	5.5	4	ACTIVITY	INDUSTRY	865.9
3	ACTIVITY	MILLING	56.9	7	ACTIVITY	SERVICES	272.3
4	ACTIVITY	INDUSTRY	872.9	16	COMPOSIT	INDUSTRY	625.7
6	ACTIVITY	PUBLIC ADMIN	368.8	17	COMPOSIT	SERVICES	618.1
7	ACTIVITY	SERVICES	2950.0	22	VA-TOTAL	WATER	4695.8
34	FINAL-D	PRIVATE CONSUMPT	784.2	32	VADD	INDIRECT TAX	-2039.3
55 TOTAL			5038.4	55 TOTAL			5038.4
ACCOUNT NO. 6 ACTIVITY PUBLIC ADMIN							

			INCOME				EXPENDITURE
49	CUR-ACC	GOV	133070.0	1	ACTIVITY	AGRICUL	3.3
				4	ACTIVITY	INDUSTRY	4342.9
				5	ACTIVITY	WATER	368.8
				7	ACTIVITY	SERVICES	54293.7
				13	COMPOSIT	AGRICUL	139.0
				15	COMPOSIT	MILLING	87.6
				16	COMPOSIT	INDUSTRY	10317.0
				17	COMPOSIT	SERVICES	16083.6
				23	VA-TOTAL	PUBLIC ADMIN	47434.1
55 TOTAL			133070.0	55 TOTAL			133070.0
ACCOUNT NO. 7 ACTIVITY SERVICES							

			INCOME				EXPENDITURE
1	ACTIVITY	AGRICUL	14602.7	1	ACTIVITY	AGRICUL	25.8
2	ACTIVITY	FORESTRY	462.1	4	ACTIVITY	INDUSTRY	24283.2
3	ACTIVITY	MILLING	16889.1	5	ACTIVITY	WATER	2950.0
4	ACTIVITY	INDUSTRY	94217.8	7	ACTIVITY	SERVICES	53634.4
5	ACTIVITY	WATER	272.3	13	COMPOSIT	AGRICUL	5276.7
6	ACTIVITY	PUBLIC ADMIN	54293.7	14	COMPOSIT	FORESTRY	974.9
7	ACTIVITY	SERVICES	53634.4	15	COMPOSIT	MILLING	3540.0
17	COMPOSIT	SERVICES	344339.6	16	COMPOSIT	INDUSTRY	119524.3
34	FINAL-D	PRIVATE CONSUMPT	142911.8	17	COMPOSIT	SERVICES	91181.8
35	FINAL-D	CAPITAL FORMATH	12988.4	24	VA-TOTAL	SERVICES	445414.5
36	FINAL-D	CHANGE STOCK	5082.9	32	VADD	INDIRECT TAX	23935.0
37	FINAL-D	EXPORTS	28360.5				
39	FINAL-D	TOURISM	2685.1	55 TOTAL			770740.6
55 TOTAL			770740.4				
ACCOUNT NO. 8 IMPORTED AGRICUL							

			INCOME				EXPENDITURE
13	COMPOSIT	AGRICUL	7889.3	40	R-O-W	GD&SRV NINV.INC	6713.2
				45	IMPORT	TAX	1176.1
55 TOTAL			7889.3	55 TOTAL			7889.3
ACCOUNT NO. 9 IMPORTED FORESTRY							

			INCOME				EXPENDITURE
14	COMPOSIT	FORESTRY	647.9	40	R-O-W	GD&SRV NINV.INC	604.6
				45	IMPORT	TAX	43.4
55 TOTAL			647.9	55 TOTAL			648.0
ACCOUNT NO. 10 IMPORTED MILLING							

			INCOME				EXPENDITURE
15	COMPOSIT	MILLING	416.0	40	R-O-W	GD&SRV NINV.INC	327.9
				45	IMPORT	TAX	88.1
55 TOTAL			416.0	55 TOTAL			416.0
ACCOUNT NO. 11 IMPORTED INDUSTRY							

			INCOME				EXPENDITURE
16	COMPOSIT	INDUSTRY	262750.1	40	R-O-W	GD&SRV NINV.INC	234399.3
				45	IMPORT	TAX	28350.7
55 TOTAL			262750.1	55 TOTAL			262750.0

ACCOUNT NO. 12 IMPORTED SERVICES

		INCOME			EXPENDITURE
17	COMPOSIT SERVICES	22416.9	40 R-O-W	GO&SRV	22383.1
			45 IMPORT	TAX	33.8
55 TOTAL		22416.9	55 TOTAL		22416.9

ACCOUNT NO. 13 COMPOSIT AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	5957.9	1	ACTIVITY AGRICUL	126586.2
3	ACTIVITY MILLING	3814.5	8	IMPORTED AGRICUL	7889.3
4	ACTIVITY INDUSTRY	41274.1			
6	ACTIVITY PUBLIC ADMIN	139.0			
7	ACTIVITY SERVICES	5276.7			
34	FINAL-D PRIVATE CONSUMPT	74710.5			
35	FINAL-D CAPITAL FORMATN	3399.1			
36	FINAL-D CHANGE STOCK	-632.1			
39	FINAL-D TOURISM	535.8			
55 TOTAL		134475.5	55 TOTAL		134475.5

ACCOUNT NO. 14 COMPOSIT FORESTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	551.4	2	ACTIVITY FORESTRY	16678.9
2	ACTIVITY FORESTRY	1995.9	9	IMPORTED FORESTRY	647.9
3	ACTIVITY MILLING	37.7			
4	ACTIVITY INDUSTRY	3314.8			
7	ACTIVITY SERVICES	974.9			
34	FINAL-D PRIVATE CONSUMPT	10901.8			
36	FINAL-D CHANGE STOCK	-449.3			
55 TOTAL		17327.1	55 TOTAL		17326.8

ACCOUNT NO. 15 COMPOSIT MILLING

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	2219.0	3	ACTIVITY MILLING	76542.9
3	ACTIVITY MILLING	1163.9	10	IMPORTED MILLING	416.0
4	ACTIVITY INDUSTRY	8023.2			
6	ACTIVITY PUBLIC ADMIN	87.6			
7	ACTIVITY SERVICES	3540.0			
34	FINAL-D PRIVATE CONSUMPT	52843.8			
36	FINAL-D CHANGE STOCK	8326.1			
39	FINAL-D TOURISM	755.4			
55 TOTAL		76958.9	55 TOTAL		76958.9

ACCOUNT NO. 16 COMPOSIT INDUSTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	38939.9	4	ACTIVITY INDUSTRY	561521.4
2	ACTIVITY FORESTRY	2220.0	11	IMPORTED INDUSTRY	262750.1
3	ACTIVITY MILLING	4534.4			
4	ACTIVITY INDUSTRY	302628.9			
5	ACTIVITY WATER	625.7			
6	ACTIVITY PUBLIC ADMIN	10317.0			
7	ACTIVITY SERVICES	119524.3			
34	FINAL-D PRIVATE CONSUMPT	242706.4			
35	FINAL-D CAPITAL FORMATN	105612.4			
36	FINAL-D CHANGE STOCK	-12451.1			
39	FINAL-D TOURISM	9613.3			
55 TOTAL		824271.3	55 TOTAL		824271.5

ACCOUNT NO. 17 COMPOSIT SERVICES

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	25599.1	7	ACTIVITY SERVICES	344339.6
2	ACTIVITY FORESTRY	1492.4	12	IMPORTED SERVICES	22416.9
3	ACTIVITY MILLING	7312.4			
4	ACTIVITY INDUSTRY	66972.0			
5	ACTIVITY WATER	618.1			
6	ACTIVITY PUBLIC ADMIN	16083.6			
7	ACTIVITY SERVICES	91181.8			
34	FINAL-D PRIVATE CONSUMPT	144136.0			
35	FINAL-D CAPITAL FORMATN	138.6			
36	FINAL-D CHANGE STOCK	-383.8			
39	FINAL-D TOURISM	13606.6			
55	TOTAL	366756.8	55	TOTAL	366756.5

ACCOUNT NO. 18 VA-TOTAL AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	132839.3	25	VADD LAND AGRICUL	37787.5
			27	VADD OTHER AGRICUL	95051.7
55	TOTAL	132839.3	55	TOTAL	132839.3

ACCOUNT NO. 19 VA-TOTAL FORESTRY

		INCOME			EXPENDITURE
2	ACTIVITY FORESTRY	9877.3	26	VADD LAND FORESTRY	835.5
			28	VADD OTHER FORESTRY	9041.9
55	TOTAL	9877.3	55	TOTAL	9877.4

ACCOUNT NO. 20 VA-TOTAL MILLING

		INCOME			EXPENDITURE
3	ACTIVITY MILLING	12089.8	30	VADD WAGES NON-AGR	3591.1
			31	VADD OPERAT SURPLUS	8498.7
55	TOTAL	12089.8	55	TOTAL	12089.8

ACCOUNT NO. 21 VA-TOTAL INDUSTRY

		INCOME			EXPENDITURE
4	ACTIVITY INDUSTRY	224987.2	30	VADD WAGES NON-AGR	58885.9
			31	VADD OPERAT SURPLUS	166101.2
55	TOTAL	224987.2	55	TOTAL	224987.1

ACCOUNT NO. 22 VA-TOTAL WATER

		INCOME			EXPENDITURE
5	ACTIVITY WATER	4695.8	30	VADD WAGES NON-AGR	1563.1
			31	VADD OPERAT SURPLUS	3132.7
55	TOTAL	4695.8	55	TOTAL	4695.8

ACCOUNT NO. 23 VA-TOTAL PUBLIC ADMIN

		INCOME			EXPENDITURE
6	ACTIVITY PUBLIC ADMIN	47434.1	31	VADD OPERAT SURPLUS	4694.0
			33	VADD GOVERN EMPLOYEE	42740.1
55	TOTAL	47434.1	55	TOTAL	47434.1

ACCOUNT NO. 24 VA-TOTAL SERVICES

		INCOME			EXPENDITURE
7	ACTIVITY SERVICES	445414.5	30	VADD WAGES NON-AGR	139780.8
			31	VADD OPERAT SURPLUS	305633.7
55	TOTAL	445414.5	55	TOTAL	445414.5

ACCOUNT NO. 25 VADD LAND AGRICUL

		INCOME			EXPENDITURE
18	VA-TOTAL AGRICUL	37787.5	47	CUR-ACC H-H	37787.5
55	TOTAL	37787.5	55	TOTAL	37787.5

ACCOUNT NO.	26	VADD	LAND	FORESTRY				
				INCOME				EXPENDITURE
19 VA-TOTAL FORESTRY				835.5	47	CUR-ACC	H-H	835.5
				-----				-----
55 TOTAL				835.5	55	TOTAL		835.5
ACCOUNT NO.	27	VADD	OTHER	AGRICUL				
				INCOME				EXPENDITURE
18 VA-TOTAL AGRICUL				95051.7	29	VADD	WAGES	67714.1
					31	VADD	OPERAT	27337.6
				-----				-----
55 TOTAL				95051.7	55	TOTAL		95051.7
ACCOUNT NO.	28	VADD	OTHER	FORESTRY				
				INCOME				EXPENDITURE
19 VA-TOTAL FORESTRY				9041.9	29	VADD	WAGES	901.6
					31	VADD	OPERAT	8140.3
				-----				-----
55 TOTAL				9041.9	55	TOTAL		9041.9
ACCOUNT NO.	29	VADD	WAGES	AGRICUL				
				INCOME				EXPENDITURE
27 VADD	OTHER	AGRICUL		67714.1	47	CUR-ACC	H-H	98277.3
28 VADD	OTHER	FORESTRY		901.6				
30 VADD	WAGES	NON-AGR		24524.6				
33 VADD	GOVERN	EMPLOYEE		5137.0				
				-----				-----
55 TOTAL				98277.3	55	TOTAL		98277.3
ACCOUNT NO.	30	VADD	WAGES	NON-AGR				
				INCOME				EXPENDITURE
20 VA-TOTAL MILLING				3591.1	29	VADD	WAGES	24524.6
21 VA-TOTAL INDUSTRY				58885.9	47	CUR-ACC	H-H	179296.4
22 VA-TOTAL WATER				1563.1				
24 VA-TOTAL SERVICES				139780.8				
				-----				-----
55 TOTAL				203821.0	55	TOTAL		203821.0
ACCOUNT NO.	31	VADD	OPERAT	SURPLUS				
				INCOME				EXPENDITURE
20 VA-TOTAL MILLING				8498.7	47	CUR-ACC	H-H	341802.7
21 VA-TOTAL INDUSTRY				166101.2	48	CUR-ACC	P-CORP	138592.9
22 VA-TOTAL WATER				3132.7	50	CUR-ACC	STAT ENT	43142.6
23 VA-TOTAL PUBLIC	ADMIN			4694.0				
24 VA-TOTAL SERVICES				305633.7				
27 VADD	OTHER	AGRICUL		27337.6				
28 VADD	OTHER	FORESTRY		8140.3				
				-----				-----
55 TOTAL				523538.2	55	TOTAL		523538.2
ACCOUNT NO.	32	VADD	INDIRECT	TAX				
				INCOME				EXPENDITURE
1 ACTIVITY AGRICUL				1810.6	49	CUR-ACC	GOV	84793.0
2 ACTIVITY FORESTRY				76.1				
3 ACTIVITY MILLING				3095.2				
4 ACTIVITY INDUSTRY				57915.4				
5 ACTIVITY WATER				-2039.3				
7 ACTIVITY SERVICES				23935.0				
				-----				-----
55 TOTAL				84793.0	55	TOTAL		84793.0
ACCOUNT NO.	33	VADD	GOVERN	EMPLOYEE				
				INCOME				EXPENDITURE
23 VA-TOTAL PUBLIC	ADMIN			42740.1	29	VADD	WAGES	5137.0
					47	CUR-ACC	H-H	37603.1
				-----				-----
55 TOTAL				42740.1	55	TOTAL		42740.1

ACCOUNT NO. 34 FINAL-D PRIVATE CONSUMPT

			INCOME			EXPENDITURE
47	CUR-ACC	H-H	677549.0	1	ACTIVITY AGRICUL	105.3
				4	ACTIVITY INDUSTRY	8449.2
				5	ACTIVITY WATER	784.2
				7	ACTIVITY SERVICES	142911.8
				13	COMPOSIT AGRICUL	74710.5
				14	COMPOSIT FORESTRY	10901.8
				15	COMPOSIT MILLING	52843.8
				16	COMPOSIT INDUSTRY	242706.4
				17	COMPOSIT SERVICES	144136.0
55 TOTAL			677549.0	55	TOTAL	677549.0
ACCOUNT NO.	35	FINAL-D CAPITAL	FORMATN			

			INCOME			EXPENDITURE
51	SAV-POOL	H-H	32267.0	4	ACTIVITY INDUSTRY	114690.5
52	SAV-POOL	P-CORP	125163.0	7	ACTIVITY SERVICES	12988.4
53	SAV-POOL	GOV	37809.0	13	COMPOSIT AGRICUL	3399.1
54	SAV-POOL	STAT ENT	41590.0	16	COMPOSIT INDUSTRY	105612.4
				17	COMPOSIT SERVICES	138.6
55 TOTAL			236829.0	55	TOTAL	236829.0
ACCOUNT NO.	36	FINAL-D CHANGE	STOCK			

			INCOME			EXPENDITURE
52	SAV-POOL	P-CORP	-3783.1	1	ACTIVITY AGRICUL	-3263.0
				4	ACTIVITY INDUSTRY	-12.7
				7	ACTIVITY SERVICES	5082.9
				13	COMPOSIT AGRICUL	-632.1
				14	COMPOSIT FORESTRY	-449.3
				15	COMPOSIT MILLING	8326.1
				16	COMPOSIT INDUSTRY	-12451.1
				17	COMPOSIT SERVICES	-383.8
55 TOTAL			-3783.1	55	TOTAL	-3783.1
ACCOUNT NO.	37	FINAL-D EXPORTS				

			INCOME			EXPENDITURE
40	R-O-W	GD&SRV NINV.INC	187130.8	1	ACTIVITY AGRICUL	17843.5
				2	ACTIVITY FORESTRY	389.1
				3	ACTIVITY MILLING	21503.0
				4	ACTIVITY INDUSTRY	81536.2
				7	ACTIVITY SERVICES	28360.5
				38	EXPORT RICERUB	37498.4
55 TOTAL			187130.8	55	TOTAL	187130.8
ACCOUNT NO.	38	EXPORT RICERUB				

			INCOME			EXPENDITURE
37	FINAL-D	EXPORTS	37498.4	3	ACTIVITY MILLING	23734.4
				4	ACTIVITY INDUSTRY	11902.0
				46	EXPORT TAX	1862.0
55 TOTAL			37498.4	55	TOTAL	37498.4
ACCOUNT NO.	39	FINAL-D TOURISM				

			INCOME			EXPENDITURE
40	R-O-W	GD&SRV NINV.INC	27317.4	4	ACTIVITY INDUSTRY	121.1
				7	ACTIVITY SERVICES	2685.1
				13	COMPOSIT AGRICUL	535.8
				15	COMPOSIT MILLING	755.4
				16	COMPOSIT INDUSTRY	9613.3
				17	COMPOSIT SERVICES	13606.6
55 TOTAL			27317.4	55	TOTAL	27317.4

ACCOUNT NO.	40	R-O-W	GD&SRV	NINV.INC			
				INCOME		EXPENDITURE	
8	IMPORTED	AGRICUL		6713.2	37	FINAL-D	EXPORTS
9	IMPORTED	FORESTRY		604.6	39	FINAL-D	TOURISM
10	IMPORTED	MILLING		327.9	44	R-O-W	TOTAL
11	IMPORTED	INDUSTRY		234399.3	47	CUR-ACC	H-H
12	IMPORTED	SERVICES		22383.1			
				-----			-----
55	TOTAL			264428.1	55	TOTAL	264428.1
ACCOUNT NO.	41	R-O-W	GD&SRV	INV.INC			
				INCOME		EXPENDITURE	
47	CUR-ACC	H-H		29.0	44	R-O-W	TOTAL
48	CUR-ACC	P-CORP		22311.4	48	CUR-ACC	P-CORP
49	CUR-ACC	GOV		4817.5			
50	CUR-ACC	STAT ENT		8272.0			
				-----			-----
55	TOTAL			35429.9	55	TOTAL	35429.9
ACCOUNT NO.	42	R-O-W	TRANSFER				
				INCOME		EXPENDITURE	
44	R-O-W	TOTAL		4128.1	48	CUR-ACC	P-CORP
47	CUR-ACC	H-H		449.3	49	CUR-ACC	GOV
49	CUR-ACC	GOV		1.6			
				-----			-----
55	TOTAL			4579.0	55	TOTAL	4579.0
ACCOUNT NO.	43	R-O-W	DIRECT	INVESTM			
				INCOME		EXPENDITURE	
44	R-O-W	TOTAL		9624.6	52	SAV-POOL	P-CORP
				-----			-----
55	TOTAL			9624.6	55	TOTAL	9624.6
ACCOUNT NO.	44	R-O-W	TOTAL				
				INCOME		EXPENDITURE	
40	R-O-W	GD&SRV	NINV.INC	23377.4	42	R-O-W	TRANSFER
41	R-O-W	GD&SRV	INV.INC	30219.0	43	R-O-W	DIRECT INVESTM
				-----			-----
55	TOTAL			53596.4	55	TOTAL	53596.4
ACCOUNT NO.	45	IMPORT	TAX				
				INCOME		EXPENDITURE	
8	IMPORTED	AGRICUL		1176.1	49	CUR-ACC	GOV
9	IMPORTED	FORESTRY		43.4			
10	IMPORTED	MILLING		88.1			
11	IMPORTED	INDUSTRY		28350.7			
12	IMPORTED	SERVICES		33.8			
				-----			-----
55	TOTAL			29692.1	55	TOTAL	29692.0
ACCOUNT NO.	46	EXPORT	TAX				
				INCOME		EXPENDITURE	
38	EXPORT	RICERUB		1862.0	49	CUR-ACC	GOV
				-----			-----
55	TOTAL			1862.0	55	TOTAL	1862.0

ACCOUNT NO. 47 CUR-ACC H-H

			INCOME				EXPENDITURE
25 VADD	LAND	AGRICUL	37787.5	34 FINAL-D	PRIVATE	CONSUMPT	677549.0
26 VADD	LAND	FORESTRY	835.5	41 R-O-W	GD&SRV	INV.INC	29.0
29 VADD	WAGES	AGRICUL	98277.3	42 R-O-W	TRANSFER		449.3
30 VADD	WAGES	NON-AGR	179296.4	48 CUR-ACC	P-CORP		8024.0
31 VADD	OPERAT	SURPLUS	341802.7	49 CUR-ACC	GOV		21976.0
33 VADD	GOVERN	EMPLOYEE	37603.1	51 SAV-POOL	H-H		73135.8
40 R-O-W	GD&SRV	NINV.INC	26602.5				
48 CUR-ACC	P-CORP		56234.0				
49 CUR-ACC	GOV		2429.0				
50 CUR-ACC	STAT ENT		295.0				

55 TOTAL 781163.1 55 TOTAL 781163.1

ACCOUNT NO. 48 CUR-ACC P-CORP

			INCOME				EXPENDITURE
31 VADD	OPERAT	SURPLUS	138592.9	41 R-O-W	GD&SRV	INV.INC	22311.4
41 R-O-W	GD&SRV	INV.INC	5210.9	47 CUR-ACC	H-H		56234.0
42 R-O-W	TRANSFER		1856.6	49 CUR-ACC	GOV		19083.0
47 CUR-ACC	H-H		8024.0	52 SAV-POOL	P-CORP		75330.5
49 CUR-ACC	GOV		19274.5				

55 TOTAL 172958.9 55 TOTAL 172958.9

ACCOUNT NO. 49 CUR-ACC GOV

			INCOME				EXPENDITURE
32 VADD	INDIRECT TAX		84793.0	6 ACTIVITY	PUBLIC	ADMIN	133070.0
42 R-O-W	TRANSFER		2722.4	41 R-O-W	GD&SRV	INV.INC	4817.5
45 IMPORT	TAX		29692.0	42 R-O-W	TRANSFER		1.6
46 EXPORT	TAX		1862.0	47 CUR-ACC	H-H		2429.0
47 CUR-ACC	H-H		21976.0	48 CUR-ACC	P-CORP		19274.5
48 CUR-ACC	P-CORP		19083.0	53 SAV-POOL	GOV		4068.8
50 CUR-ACC	STAT ENT		3533.0				

55 TOTAL 163661.4 55 TOTAL 163661.4

ACCOUNT NO. 50 CUR-ACC STAT ENT

			INCOME				EXPENDITURE
31 VADD	OPERAT	SURPLUS	43142.6	41 R-O-W	GD&SRV	INV.INC	8272.0
				47 CUR-ACC	H-H		295.0
				49 CUR-ACC	GOV		3533.0
				54 SAV-POOL	STAT ENT		31042.6

55 TOTAL 43142.6 55 TOTAL 43142.6

ACCOUNT NO. 51 SAV-POOL H-H

			INCOME				EXPENDITURE
47 CUR-ACC	H-H		73135.8	35 FINAL-D	CAPITAL	FORMATN	32267.0
				52 SAV-POOL	P-CORP		31322.3
				53 SAV-POOL	GOV		9546.4

55 TOTAL 73135.8 55 TOTAL 73135.7

ACCOUNT NO. 52 SAV-POOL P-CORP

			INCOME				EXPENDITURE
43 R-O-W	DIRECT	INVESTM	9624.6	35 FINAL-D	CAPITAL	FORMATN	125163.0
44 R-O-W	TOTAL		36266.0	36 FINAL-D	CHANGE	STOCK	-3783.1
48 CUR-ACC	P-CORP		75330.5	53 SAV-POOL	GOV		31163.5
51 SAV-POOL	H-H		31322.3				

55 TOTAL 152543.4 55 TOTAL 152543.4

ACCOUNT NO. 53 SAV-POOL GOV

			INCOME				EXPENDITURE
44 R-O-W	TOTAL		-6969.7	35 FINAL-D	CAPITAL	FORMATN	37809.0
49 CUR-ACC	GOV		4068.8				
51 SAV-POOL	H-H		9546.4				
52 SAV-POOL	P-CORP		31163.5				

55 TOTAL 37809.0 55 TOTAL 37809.0

ACCOUNT NO. 54 SAV-POOL STAT ENT

		INCOME			EXPENDITURE
44 R-O-W	TOTAL	10547.4	35 FINAL-D	CAPITAL	41590.0
50 CUR-ACC	STAT ENT	31042.6			
		-----			-----
55 TOTAL		41590.0	55 TOTAL		41590.0

Box A1

For the 7 production sectors (account 1 to 7), each account shows the production of each sector or supply (at current prices) and the payments to the various inputs used in production. The SAM also shows where the production of the sector is used (i.e. where the demand comes from). As row sum equals column sum for the SAM, this means automatically that demand equals supply for all commodities. For example, agriculture (account 1) produces 224,043 million baht of products. Value added at factor cost in agricultural amounts to 132,839 million baht (expenditure or payment of account 1 to account 18), indirect tax amounts to 1,811 million baht, with the rest going to various intermediate inputs. The output of the agricultural sector is used as intermediate input into the production of other sectors or as final demand, with total usage also equalling 224,043 million baht. A slight complication of this SAM is that sometimes a domestically produced commodity (e.g. agriculture produced in account 1) is used directly in other accounts, and sometimes it is used through first being combined with the corresponding imported commodity into a composite commodity which is then used in other sectors. The reason for this is that this SAM was aggregated from a larger SAM, where some commodities are only produced domestically (zero import) while others have imported counterparts. In the larger SAM, those commodities only produced domestically are used directly by various accounts, while those with imported counterparts are first combined with the import to form a composite before being used in various accounts. When the large SAM is aggregated, an aggregated sector (e.g. agriculture) is combined from sectors with only domestic production and sectors with imported counterpart, so that part of the output of the aggregated sector is used directly, while other parts are first combined with imports before being used.

Accounts 8-17 are the imported and composite commodities. Imports are combined with domestically produced commodities to form composites, and are then used as either intermediate products or as final demand. Accounts 18-33 refers to various components of value added including indirect taxes. The value added generated from primary factors comes from wages, operating surplus, and rent on land. The factors are combined in various steps for convenience in modeling (see below), for example, labor and capital used in agriculture is first combined into a composite (account 27, VADD OTHER AGRICUL) and the composite is then combined with land in account 18 (VA-TOTAL AGRICUL). Accounts 34-39 are various components of final demand. These are from private (household) consumption, capital formation, change in stock, exports, and consumption of tourists. Account 38 separates out rice and rubber exports. The reason is that in 1987 (the year that the SAM is based on), there were export taxes on rice and rubber exports. A missing component of final demand is government consumption. The current SAM has this component as the output of a production sector (account 6, PUBLIC

ADMIN). As can be seen from account 6, the payment to this account comes from the current account of the government. The output of this sector consists of a value added component, with the rest being government consumption of commodities.

Accounts 40-44 are Rest of the World (R-O-W) accounts, capturing flows in the current account plus direct investment. The current account components are divided into a non-investment income component (account 40, R-O-W GD&SRV NINV INC), an investment income component (interest payments, account 41, R-O-W GD&SRV INV.INC), and a transfer component (account 42, R-O-W TRANSFER).¹ The income column of these accounts refers to payments to the rest of the world (i.e. income from Thailand to the rest of the world), while the expenditure column refers to the rest of the world expenditure to Thailand. Thus, in account 40 (R-O-W GD&SRV NINV INC) rest of the world's incomes are from Thailand's imports of goods and services, while Thailand's incomes from the rest of the world are from exports of goods and services, tourism, and remittances (payment from account 40 to account 47). The payment from account 40 to account 44 (R-O-W TOTAL) represents Thailand's deficit on non-investment income trades, which has to be financed from borrowing from abroad.

Accounts 45 and 46 are for foreign trade taxes, while those from 47 to 54 are institutional accounts (current account and capital account). In this SAM, there are 4 separate economic institutions, households, private corporation, government and state enterprises. Accounts 47-50 are current accounts, while the rest are capital accounts. Take the case of the household current account (account 47, CUR-ACC H-H). Households get incomes from factor incomes (wages, rent and operating surplus), remittances, and transfers from the other institutions.² Households consume (payment to account 31), transfer income to the rest of the world and private corporations (interest payments and transfers), pay income taxes to the government (payment to account 49, CUR-ACC GOV), and the rest of the income is saved (payment to account 51, SAV-POOL H-H). For the household capital account (No 51), household saving is used for household investment (payment to account 35, FINAL-D CAPITAL FORMATION), and the rest is then lent to other institutions to fill their capital needs. For households, saving is greater than investment, so households end up being net lenders to other institutions. This is not always the case. For example, for state enterprises saving is less than investment, so they have to borrow from abroad to fill the gap (income from account 44, R-O-W TOTAL, to account 54, SAV-POOL STAT ENT)]

¹ The reason that the non-investment income and investment income parts are separated out is because interest payment is an important component of the current account of Thailand.

² The payment to households from private corporations (CUR-ACC P-CORP) are mostly interest earnings and dividend payments.

TABLE A2

EXPANDED SAM WITH NATURAL WATER SECTOR AND FOREST BENEFITS

ACCOUNT NO. 1 ACTIVITY AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	1148.1	1	ACTIVITY AGRICUL	1148.1
3	ACTIVITY MILLING	69255.7	4	ACTIVITY INDUSTRY	369.4
4	ACTIVITY INDUSTRY	12337.8	6	ACTIVITY WATER PRODUCT	5.5
7	ACTIVITY PUBLIC ADMIN	3.3	8	ACTIVITY SERVICES	14602.7
8	ACTIVITY SERVICES	25.8	14	COMPOSIT AGRICUL	5957.9
14	COMPOSIT AGRICUL	126586.2	15	COMPOSIT FORESTRY	551.4
44	FINAL-D PRIVATE CONSUMPT	105.3	16	COMPOSIT MILLING	2219.0
46	FINAL-D CHANGE STOCK	-3263.0	17	COMPOSIT INDUSTRY	38939.9
47	FINAL-D EXPORTS	17843.5	18	COMPOSIT SERVICES	25599.1
			20	VA-TOTAL AGRICUL	132839.3
			39	V-ADD INDIRECT TAX	1810.6
65	TOTAL	224042.8	65	TOTAL	224042.9

ACCOUNT NO. 2 ACTIVITY FORESTRY

		INCOME			EXPENDITURE
15	COMPOSIT FORESTRY	16678.9	4	ACTIVITY INDUSTRY	944.1
47	FINAL-D EXPORTS	389.1	8	ACTIVITY SERVICES	462.1
			15	COMPOSIT FORESTRY	1995.9
			17	COMPOSIT INDUSTRY	2220.0
			18	COMPOSIT SERVICES	1492.4
			21	VA-TOTAL FORESTRY	9877.3
			39	V-ADD INDIRECT TAX	76.1
65	TOTAL	17068.0	65	TOTAL	17067.9

ACCOUNT NO. 3 ACTIVITY MILLING

		INCOME			EXPENDITURE
16	COMPOSIT MILLING	76542.9	1	ACTIVITY AGRICUL	69255.7
47	FINAL-D EXPORTS	21503.0	4	ACTIVITY INDUSTRY	3530.9
48	EXPORT RICERUB	23734.4	6	ACTIVITY WATER PRODUCT	56.9
			8	ACTIVITY SERVICES	16889.1
			14	COMPOSIT AGRICUL	3814.5
			15	COMPOSIT FORESTRY	37.7
			16	COMPOSIT MILLING	1163.9
			17	COMPOSIT INDUSTRY	4534.4
			18	COMPOSIT SERVICES	7312.4
			22	VA-TOTAL MILLING	12089.8
			39	V-ADD INDIRECT TAX	3095.2
65	TOTAL	121780.4	65	TOTAL	121780.5

ACCOUNT NO. 4 ACTIVITY INDUSTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	369.4	1	ACTIVITY AGRICUL	12337.8
2	ACTIVITY FORESTRY	944.1	4	ACTIVITY INDUSTRY	41951.8
3	ACTIVITY MILLING	3530.9	6	ACTIVITY WATER PRODUCT	872.9
4	ACTIVITY INDUSTRY	41951.8	8	ACTIVITY SERVICES	94217.8
5	ACTIVITY NATURAL WATER	279.0	14	COMPOSIT AGRICUL	41274.1
7	ACTIVITY PUBLIC ADMIN	4063.9	15	COMPOSIT FORESTRY	3314.8
8	ACTIVITY SERVICES	24283.2	16	COMPOSIT MILLING	8023.2
17	COMPOSIT INDUSTRY	561521.4	17	COMPOSIT INDUSTRY	302628.9
19	COMBINE INT.MED WAT.PROD	865.9	18	COMPOSIT SERVICES	66972.0
44	FINAL-D PRIVATE CONSUMPT	8449.2	23	VA-TOTAL INDUSTRY	224987.2
45	FINAL-D CAPITAL FORMATN	114690.5	39	V-ADD INDIRECT TAX	57915.4
46	FINAL-D CHANGE STOCK	-12.7			
47	FINAL-D EXPORTS	81536.2			
48	EXPORT RICERUB	11902.0			
49	FINAL-D TOURISM	121.1			
65	TOTAL	854495.8	65	TOTAL	854495.9 **

ACCOUNT NO.	5	ACTIVITY	NATURAL	WATER			
					INCOME		EXPENDITURE
19	COMBINE	INT.MED	WAT.PRD		1343.2	4	ACTIVITY INDUSTRY
28	COMBINE	LAND.WAT	AGRICUL		2910.1	8	ACTIVITY SERVICES
						17	COMPOSIT INDUSTRY
						18	COMPOSIT SERVICES
						24	VA-TOTAL NATURAL WATER
65	TOTAL				4253.3	65	TOTAL
4253.3						4253.3	
ACCOUNT NO.	6	ACTIVITY	WATER	PRODUCT			
					INCOME		EXPENDITURE
1	ACTIVITY	AGRICUL			5.5	19	COMBINE INT.MED WAT.PRD
3	ACTIVITY	MILLING			56.9	25	VA-TOTAL WATER PRODUCT
4	ACTIVITY	INDUSTRY			872.9	39	V-ADD INDIRECT TAX
7	ACTIVITY	PUBLIC	ADMIN		368.8		
8	ACTIVITY	SERVICES			2950.0		
44	FINAL-D	PRIVATE	CONSUMPT		784.2		
65	TOTAL				5038.4	65	TOTAL
5038.4						5038.4	
ACCOUNT NO.	7	ACTIVITY	PUBLIC	ADMIN			
					INCOME		EXPENDITURE
59	CUR-ACC	GOV			128816.8	1	ACTIVITY AGRICUL
						4	ACTIVITY INDUSTRY
						6	ACTIVITY WATER PRODUCT
						8	ACTIVITY SERVICES
						14	COMPOSIT AGRICUL
						16	COMPOSIT MILLING
						17	COMPOSIT INDUSTRY
						18	COMPOSIT SERVICES
						26	VA-TOTAL PUBLIC ADMIN
65	TOTAL				128816.8	65	TOTAL
128816.8						128816.8	
ACCOUNT NO.	8	ACTIVITY	SERVICES				
					INCOME		EXPENDITURE
1	ACTIVITY	AGRICUL			14602.7	1	ACTIVITY AGRICUL
2	ACTIVITY	FORESTRY			462.1	4	ACTIVITY INDUSTRY
3	ACTIVITY	MILLING			16889.1	6	ACTIVITY WATER PRODUCT
4	ACTIVITY	INDUSTRY			94217.8	8	ACTIVITY SERVICES
5	ACTIVITY	NATURAL	WATER		87.7	14	COMPOSIT AGRICUL
7	ACTIVITY	PUBLIC	ADMIN		54206.0	15	COMPOSIT FORESTRY
8	ACTIVITY	SERVICES			53634.4	16	COMPOSIT MILLING
18	COMPOSIT	SERVICES			344339.6	17	COMPOSIT INDUSTRY
19	COMBINE	INT.MED	WAT.PRD		272.3	18	COMPOSIT SERVICES
44	FINAL-D	PRIVATE	CONSUMPT		142911.8	27	VA-TOTAL SERVICES
45	FINAL-D	CAPITAL	FORMATN		12988.4	39	V-ADD INDIRECT TAX
46	FINAL-D	CHANGE	STOCK		5082.9		
47	FINAL-D	EXPORTS			28360.5		
49	FINAL-D	TOURISM			2685.1		
65	TOTAL				770740.4	65	TOTAL
770740.4						770740.6	**
ACCOUNT NO.	9	IMPORTED	AGRICUL				
					INCOME		EXPENDITURE
14	COMPOSIT	AGRICUL			7889.3	50	R-O-W GD&SRV NINV.INC
						55	IMPORT TAX
65	TOTAL				7889.3	65	TOTAL
7889.3						7889.3	
ACCOUNT NO.	10	IMPORTED	FORESTRY				
					INCOME		EXPENDITURE
15	COMPOSIT	FORESTRY			647.9	50	R-O-W GD&SRV NINV.INC
						55	IMPORT TAX
65	TOTAL				647.9	65	TOTAL
647.9						648.0	
ACCOUNT NO.	11	IMPORTED	MILLING				
					INCOME		EXPENDITURE
16	COMPOSIT	MILLING			416.0	50	R-O-W GD&SRV NINV.INC
						55	IMPORT TAX
65	TOTAL				416.0	65	TOTAL
416.0						416.0	

ACCOUNT NO. 12 IMPORTED INDUSTRY

		INCOME				EXPENDITURE
17	COMPOSIT INDUSTRY	262750.1	50 R-O-W	GD&SRV	NINV.INC	234399.3
			55 IMPORT	TAX		28350.7
65	TOTAL	262750.1	65	TOTAL		262750.0

ACCOUNT NO. 13 IMPORTED SERVICES

		INCOME				EXPENDITURE
18	COMPOSIT SERVICES	22416.9	50 R-O-W	GD&SRV	NINV.INC	22383.1
			55 IMPORT	TAX		33.8
65	TOTAL	22416.9	65	TOTAL		22416.9

ACCOUNT NO. 14 COMPOSIT AGRICUL

		INCOME				EXPENDITURE
1	ACTIVITY AGRICUL	5957.9	1	ACTIVITY AGRICUL		126586.2
3	ACTIVITY MILLING	3814.5	9	IMPORTED AGRICUL		7889.3
4	ACTIVITY INDUSTRY	41274.1				
7	ACTIVITY PUBLIC ADMIN	139.0				
8	ACTIVITY SERVICES	5276.7				
44	FINAL-D PRIVATE CONSUMPT	74710.5				
45	FINAL-D CAPITAL FORMATN	3399.1				
46	FINAL-D CHANGE STOCK	-632.1				
49	FINAL-D TOURISM	535.8				
65	TOTAL	134475.5	65	TOTAL		134475.5

ACCOUNT NO. 15 COMPOSIT FORESTRY

		INCOME				EXPENDITURE
1	ACTIVITY AGRICUL	551.4	2	ACTIVITY FORESTRY		16678.9
2	ACTIVITY FORESTRY	1995.9	10	IMPORTED FORESTRY		647.9
3	ACTIVITY MILLING	37.7				
4	ACTIVITY INDUSTRY	3314.8				
8	ACTIVITY SERVICES	974.9				
44	FINAL-D PRIVATE CONSUMPT	10901.8				
46	FINAL-D CHANGE STOCK	-449.3				
65	TOTAL	17327.1	65	TOTAL		17326.8 **

ACCOUNT NO. 16 COMPOSIT MILLING

		INCOME				EXPENDITURE
1	ACTIVITY AGRICUL	2219.0	3	ACTIVITY MILLING		76542.9
3	ACTIVITY MILLING	1163.9	11	IMPORTED MILLING		416.0
4	ACTIVITY INDUSTRY	8023.2				
7	ACTIVITY PUBLIC ADMIN	87.6				
8	ACTIVITY SERVICES	3540.0				
44	FINAL-D PRIVATE CONSUMPT	52843.8				
46	FINAL-D CHANGE STOCK	8326.1				
49	FINAL-D TOURISM	755.4				
65	TOTAL	76958.9	65	TOTAL		76958.9

ACCOUNT NO. 17 COMPOSIT INDUSTRY

		INCOME				EXPENDITURE
1	ACTIVITY AGRICUL	38939.9	4	ACTIVITY INDUSTRY		561521.4
2	ACTIVITY FORESTRY	2220.0	12	IMPORTED INDUSTRY		262750.1
3	ACTIVITY MILLING	4534.4				
4	ACTIVITY INDUSTRY	302628.9				
5	ACTIVITY NATURAL WATER	201.6				
7	ACTIVITY PUBLIC ADMIN	10115.4				
8	ACTIVITY SERVICES	119524.3				
19	COMBINE INT.MED WAT.PRD	625.7				
44	FINAL-D PRIVATE CONSUMPT	242706.4				
45	FINAL-D CAPITAL FORMATN	105612.4				
46	FINAL-D CHANGE STOCK	-12451.1				
49	FINAL-D TOURISM	9613.3				
65	TOTAL	824271.3	65	TOTAL		824271.5 **

ACCOUNT NO. 18 COMPOSIT SERVICES

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	25599.1	8	ACTIVITY SERVICES	344339.6
2	ACTIVITY FORESTRY	1492.4	13	IMPORTED SERVICES	22416.9
3	ACTIVITY MILLING	7312.4			
4	ACTIVITY INDUSTRY	66972.0			
5	ACTIVITY NATURAL WATER	199.1			
7	ACTIVITY PUBLIC ADMIN	15884.5			
8	ACTIVITY SERVICES	91181.8			
19	COMBINE INT.MED WAT.PROD	618.1			
44	FINAL-D PRIVATE CONSUMPT	144136.0			
45	FINAL-D CAPITAL FORMATN	138.6			
46	FINAL-D CHANGE STOCK	-383.8			
49	FINAL-D TOURISM	13606.6			
65 TOTAL		366756.8	65	TOTAL	366756.5 **
ACCOUNT NO. 19 COMBINE INT.MED WAT.PROD					

		INCOME			EXPENDITURE
6	ACTIVITY WATER PRODUCT	2381.9	4	ACTIVITY INDUSTRY	865.9
			5	ACTIVITY NATURAL WATER	1343.2
			8	ACTIVITY SERVICES	272.3
			17	COMPOSIT INDUSTRY	625.7
			18	COMPOSIT SERVICES	618.1
			42	SUBSIDY NATURAL WATER	-1343.2
65 TOTAL		2381.9	65	TOTAL	2382.0
ACCOUNT NO. 20 VA-TOTAL AGRICUL					

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	132839.3	28	COMBINE LAND.WAT AGRICUL	37787.5
			33	V-ADD OTHER AGRICUL	95051.7
65 TOTAL		132839.3	65	TOTAL	132839.3
ACCOUNT NO. 21 VA-TOTAL FORESTRY					

		INCOME			EXPENDITURE
2	ACTIVITY FORESTRY	9877.3	29	COMBINE LAND FORESTRY	8611.8
			34	V-ADD OTHER FORESTRY	1265.6
65 TOTAL		9877.3	65	TOTAL	9877.4 **
ACCOUNT NO. 22 VA-TOTAL MILLING					

		INCOME			EXPENDITURE
3	ACTIVITY MILLING	12089.8	36	V-ADD WAGES NON-AGR	3591.1
			37	V-ADD OPERAT SURPLUS	8498.7
65 TOTAL		12089.8	65	TOTAL	12089.8
ACCOUNT NO. 23 VA-TOTAL INDUSTRY					

		INCOME			EXPENDITURE
4	ACTIVITY INDUSTRY	224987.2	36	V-ADD WAGES NON-AGR	58885.9
			37	V-ADD OPERAT SURPLUS	166101.2
65 TOTAL		224987.2	65	TOTAL	224987.1 **
ACCOUNT NO. 24 VA-TOTAL NATURAL WATER					

		INCOME			EXPENDITURE
5	ACTIVITY NATURAL WATER	3485.9	32	V-ADD LAND NAT.WAT	377.9
			38	V-ADD O.SURPLU GOV	1192.4
			43	V-ADD GOVERN EMPLOYEE	1915.6
65 TOTAL		3485.9	65	TOTAL	3485.9
ACCOUNT NO. 25 VA-TOTAL WATER PRODUCT					

		INCOME			EXPENDITURE
6	ACTIVITY WATER PRODUCT	4695.8	36	V-ADD WAGES NON-AGR	1563.1
			37	V-ADD OPERAT SURPLUS	3132.7
65 TOTAL		4695.8	65	TOTAL	4695.8

ACCOUNT NO. 44 FINAL-D PRIVATE CONSUMPT

			INCOME			EXPENDITURE
57	CUR-ACC	H-H	677549.0	1	ACTIVITY AGRICUL	105.3
				4	ACTIVITY INDUSTRY	8449.2
				6	ACTIVITY WATER PRODUCT	784.2
				8	ACTIVITY SERVICES	142911.8
				14	COMPOSIT AGRICUL	74710.5
				15	COMPOSIT FORESTRY	10901.8
				16	COMPOSIT MILLING	52843.8
				17	COMPOSIT INDUSTRY	242706.4
				18	COMPOSIT SERVICES	144136.0
65 TOTAL			677549.0	65	TOTAL	677549.0

ACCOUNT NO. 45 FINAL-D CAPITAL FORMATN

			INCOME			EXPENDITURE
61	SAV-POOL	H-H	32267.0	4	ACTIVITY INDUSTRY	114690.5
62	SAV-POOL	P-CORP	125163.0	8	ACTIVITY SERVICES	12988.4
63	SAV-POOL	GOV	37809.0	14	COMPOSIT AGRICUL	3399.1
64	SAV-POOL	STAT ENT	41590.0	17	COMPOSIT INDUSTRY	105612.4
				18	COMPOSIT SERVICES	138.6
65 TOTAL			236829.0	65	TOTAL	236829.0

ACCOUNT NO. 46 FINAL-D CHANGE STOCK

			INCOME			EXPENDITURE
62	SAV-POOL	P-CORP	-3783.1	1	ACTIVITY AGRICUL	-3263.0
				4	ACTIVITY INDUSTRY	-12.7
				8	ACTIVITY SERVICES	5082.9
				14	COMPOSIT AGRICUL	-632.1
				15	COMPOSIT FORESTRY	-449.3
				16	COMPOSIT MILLING	8326.1
				17	COMPOSIT INDUSTRY	-12451.1
				18	COMPOSIT SERVICES	-383.8
65 TOTAL			-3783.1	65	TOTAL	-3783.1

ACCOUNT NO. 47 FINAL-D EXPORTS

			INCOME			EXPENDITURE
50	R-O-W	GD&SRV NINV.INC	187130.8	1	ACTIVITY AGRICUL	17843.5
				2	ACTIVITY FORESTRY	389.1
				3	ACTIVITY MILLING	21503.0
				4	ACTIVITY INDUSTRY	81536.2
				8	ACTIVITY SERVICES	28360.5
				48	EXPORT RICERUB	37498.4
65 TOTAL			187130.8	65	TOTAL	187130.8

ACCOUNT NO. 48 EXPORT RICERUB

			INCOME			EXPENDITURE
47	FINAL-D	EXPORTS	37498.4	3	ACTIVITY MILLING	23734.4
				4	ACTIVITY INDUSTRY	11902.0
				56	EXPORT TAX	1862.0
65 TOTAL			37498.4	65	TOTAL	37498.4

ACCOUNT NO. 49 FINAL-D TOURISM

			INCOME			EXPENDITURE
50	R-O-W	GD&SRV NINV.INC	27317.4	4	ACTIVITY INDUSTRY	121.1
				8	ACTIVITY SERVICES	2685.1
				14	COMPOSIT AGRICUL	535.8
				16	COMPOSIT MILLING	755.4
				17	COMPOSIT INDUSTRY	9613.3
				18	COMPOSIT SERVICES	13606.6
65 TOTAL			27317.4	65	TOTAL	27317.4

ACCOUNT NO. 58 CUR-ACC P-CORP

			INCOME				EXPENDITURE
37 V-ADD	OPERAT	SURPLUS	133899.0	51 R-O-W	GD&SRV	INV.INC	22311.4
51 R-O-W	GD&SRV	INV.INC	5210.9	57 CUR-ACC	H-H		56234.0
52 R-O-W	TRANSFER		1856.6	59 CUR-ACC	GOV		14389.0
57 CUR-ACC	H-H		8024.0	62 SAV-POOL	P-CORP		75330.5
59 CUR-ACC	GOV		19274.5				
			-----				-----
65 TOTAL			168265.0	65 TOTAL			168265.0

ACCOUNT NO. 59 CUR-ACC GOV

			INCOME				EXPENDITURE
32 V-ADD	LAND	NAT.WAT	377.9	7 ACTIVITY	PUBLIC	ADMIN	128816.8
38 V-ADD	O.SURPLU	GOV	4316.1	51 R-O-W	GD&SRV	INV.INC	4817.5
39 V-ADD	INDIRECT	TAX	84793.0	52 R-O-W	TRANSFER		1.6
42 SUBSIDY	NATURAL	WATER	-4253.3	57 CUR-ACC	H-H		2429.0
52 R-O-W	TRANSFER		2722.4	58 CUR-ACC	P-CORP		19274.5
55 IMPORT	TAX		29692.0	63 SAV-POOL	GOV		4068.8
56 EXPORT	TAX		1862.0				
57 CUR-ACC	H-H		21976.0				
58 CUR-ACC	P-CORP		14389.0				
60 CUR-ACC	STAT ENT		3533.0				
			-----				-----
65 TOTAL			159408.1	65 TOTAL			159408.2

ACCOUNT NO. 60 CUR-ACC STAT ENT

			INCOME				EXPENDITURE
37 V-ADD	OPERAT	SURPLUS	43142.6	51 R-O-W	GD&SRV	INV.INC	8272.0
				57 CUR-ACC	H-H		295.0
				59 CUR-ACC	GOV		3533.0
				64 SAV-POOL	STAT ENT		31042.6
			-----				-----
65 TOTAL			43142.6	65 TOTAL			43142.6

ACCOUNT NO. 61 SAV-POOL H-H

			INCOME				EXPENDITURE
57 CUR-ACC	H-H		73135.8	45 FINAL-D	CAPITAL	FORMATN	32267.0
				62 SAV-POOL	P-CORP		31322.3
				63 SAV-POOL	GOV		9546.4
			-----				-----
65 TOTAL			73135.8	65 TOTAL			73135.7

ACCOUNT NO. 62 SAV-POOL P-CORP

			INCOME				EXPENDITURE
53 R-O-W	DIRECT	INVESTM	9624.6	45 FINAL-D	CAPITAL	FORMATN	125163.0
54 R-O-W	TOTAL		36266.0	46 FINAL-D	CHANGE	STOCK	-3783.1
58 CUR-ACC	P-CORP		75330.5	63 SAV-POOL	GOV		31163.5
61 SAV-POOL	H-H		31322.3				
			-----				-----
65 TOTAL			152543.4	65 TOTAL			152543.4

ACCOUNT NO. 63 SAV-POOL GOV

			INCOME				EXPENDITURE
54 R-O-W	TOTAL		-6969.7	45 FINAL-D	CAPITAL	FORMATN	37809.0
59 CUR-ACC	GOV		4068.8				
61 SAV-POOL	H-H		9546.4				
62 SAV-POOL	P-CORP		31163.5				
			-----				-----
65 TOTAL			37809.0	65 TOTAL			37809.0

ACCOUNT NO. 64 SAV-POOL STAT ENT

			INCOME				EXPENDITURE
54 R-O-W	TOTAL		10547.4	45 FINAL-D	CAPITAL	FORMATN	41590.0
60 CUR-ACC	STAT ENT		31042.6				
			-----				-----
65 TOTAL			41590.0	65 TOTAL			41590.0

Table A3

TV Specifications available in SAMLIB CGE Program

<u>TV-Value</u>	<u>Definition</u>	<u>Comment</u>
1	$t_{ij} = Y_j$	All income in account j is transferred to account i Y_j is the value of account j
2	$t_{ij} = \text{Residual}$	The cell ij is residual
3	$t_{ij} = t^0_{ij} * F_{ij}$	The payment is exogenous, with F_{ij} being a growth factor t^0_{ij} denotes the value of the cell ij in the base period
4	$t_{ij} = \frac{\text{THET}_{ij}}{(1 + \text{THET}_j)} * Y_j$	A fixed proportion of the income before tax in account j is paid as tax to account I. THET_{ij} is the tax rate as a fraction of the transfer excluding tax $\text{THET}_j = \sum_k \text{THET}_{kj}$.
5.	$t_{ij} = C_{ij} * Y_j$	The expenditure share is fixed exogenously C_{ij} is the expenditure share. C_{ij} must satisfy $\sum_k C_{kj} =$
6.	$t_{ij} = QQ_{ij} * P_i$	The quantity that is transferred from account j to account i is exogenous P_i denotes the price of account i QQ_{ij} denotes an exogenous quantity

$$7 \quad t_{ij} = t_{ij}^0 * R_{ij} * (PIX_i * P_j)^{ETA_i} * P_i^{(1-ETA_i)}$$

Export demand function depending on export price in local currency, P_i , world price in foreign currency, PIX_i , and the price of foreign currency, P_j . ETA_i denotes the elasticity of substitution, and R_{ij} denotes an exogenous growth factor.

$$8. \quad t_{ij} = t_{ij}^0 * R_{ij} * (PIX_i * P_j)$$

As 7, but with elasticity 1. This specification can also be used to denote a transfer that is fixed in foreign currency.

$$9. \quad P_i = PIX_i * P_j \text{ and } t_{ij} \text{ is residual}$$

This corresponds to the export demand function 7 with elasticity infinity.

$$10 \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * PIM_j * \frac{P_i}{P_j}$$

Payment for imports, depending on world import price in foreign currency, PIM_j , price of foreign currency, P_i , and domestic price in local currency, P_j .

$$11. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * \left\{ \frac{(1+THET_j^0)}{(1+THET_j)} \right\}^{SIGM_j} * (P_i/P_j)^{(1-SIGM_j)}$$

Input demand function from CES production with added tax. $SIGM_j$ is the elasticity of substitution. $THET_j^0$ is the tax rate in the base period.

$$12. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * \frac{P_i}{P_j}$$

As 11 but with zero elasticity. This corresponds to a
Loentief production function (fixed quantity ratios)

$$13. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * \{(1+THET^0_{ij})/(1+THET_{ij})\}$$

As 11 but with elasticity 1 This corresponds to a
Cobb-Douglas production function or fixed value shares

$$14. \quad P_i = P_j \text{ and } t_{ij} \text{ is residual}$$

This corresponds to 11 with elasticity infinity, i.e. the
inputs in the production function are perfect substitutes

$$15. \quad t_{ij} = A_{ij} * Y_j * \frac{P_i}{P_j}$$

The quantity shares in the columns are fixed

This is like 12, but A_{ij} is not derived from the
base year SAM

$$16. \quad t_{ij} = \left\{ \frac{t_{ij}^0}{Y_j^0} + RHO_{ij} * \exp\left(\frac{-BETA_{ij}}{(Y_j/P_j)}\right) - \exp\left(\frac{-BETA_{ij}^0}{Y_j^0}\right) \right\} * Y_j$$

Non-linear expenditure system The value share is
derived from a base year share, corrected for changes in
real income (Y_j/P_j). RHO_{ij} describes the change in
expenditure pattern for changing income and satisfies

$$\sum_k RHO_{kj} = 0 \quad BETA_{ij} \text{ describes how fast}$$

changes in income creates changed expenditure patterns
via RHO_{ij}

$$17. \quad t_{ij} = TEXO_{ij}$$

The payment is exogenous, but defined directly as
opposed to specification 3

$$18. \quad t_{ij} = \left\{ \frac{t_{ij}^0}{Y_j^0} + \text{RHO}_{ij} * \exp\left(\frac{-\text{BETA}_{ij}}{Y_j}\right) \cdot \exp\left(\frac{-\text{BETA}_{ij}^0}{Y_j^0}\right) \right\} * Y_j$$

As 16, but the value share is derived from the base year share corrected for changes in nominal income rather than real income as in 16

$$19. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * \left(\frac{P_i / P_j}{E_{ij}}\right)^{(1-\text{SIGM}_{ij})}$$

Input demand function from CES production function with selective technical change for different inputs.

$E_{ij} > 1$ denotes increased efficiency

$$20. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j * \left(\frac{P_i / P_j}{E_{ij}}\right)$$

As 19 but with zero elasticity, i.e. from a Loentief production function with technical change

$$21. \quad t_{ij} = \frac{t_{ij}^0}{Y_j^0} * Y_j$$

This is like a Cobb-Douglas production function without tax (specification 13). However, there is a technical change parameter, E_{ij} . It appears in a

column equation $P_j = \prod_k (P_k / E_{kj})^{(t_{kj}^0 / Y_j^0)}$.

$$22. \quad t_{ij} = B_{ij} * (P_i / P_j)^{(\text{SIGR}_i - 1)} * Y_i$$

This specification describes an allocation of output in a row with a CES production possibility frontier. It can be used to model joint production. SIGR_i denotes the elasticity of substitution of the production possibility

frontier. B_{ij} denotes a share parameter and must satisfy

$$\sum_k B_{ik} = 1$$

23. $t_{ij} = B_{ij} * P_j * Y_i / P_i$

This corresponds to 22 with zero elasticity, i.e output is produced in fixed quantity ratios independent of prices

24 $P_i = P_j$ and t_{ij} is residual

This corresponds to 22 with infinite elasticity, i.e there is perfect substitute

25 $t_{ij} = D_{ij} * Y_j * (P_i/P_j)^{(1-SIGM_{ij})}$

This is like 19 with no technical change, but the column share is derived from a share parameter, D_{ij} , rather than from the base year share. D_{ij} must satisfy $\sum_k D_{kj} = 1$

26 $t_{ij} = \text{USER}(t_{ij}^0, Y_i^0, Y_j^0, P_i, P_j, Y_i, Y_j, i, j)$

This specification can be used to enter non-standard functional forms. A fortran subroutine is required

TABLE A4
TV Specifications for Model

ACCOUNT NO. 1 ACTIVITY AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	1	ACTIVITY AGRICUL	12
3	ACTIVITY MILLING	12	4	ACTIVITY INDUSTRY	12
4	ACTIVITY INDUSTRY	12	6	ACTIVITY WATER PRODUCT	12
7	ACTIVITY PUBLIC ADMIN	12	8	ACTIVITY SERVICES	12
8	ACTIVITY SERVICES	12	14	COMPOSIT AGRICUL	12
14	COMPOSIT AGRICUL	11	15	COMPOSIT FORESTRY	12
44	FINAL-D PRIVATE CONSUMPT	12	16	COMPOSIT MILLING	12
46	FINAL-D CHANGE STOCK	3	17	COMPOSIT INDUSTRY	12
47	FINAL-D EXPORTS	7	18	COMPOSIT SERVICES	12
			20	VA-TOTAL AGRICUL	12
			39	V-ADD INDIRECT TAX	4

ACCOUNT NO. 2 ACTIVITY FORESTRY

		INCOME			EXPENDITURE
15	COMPOSIT FORESTRY	11	4	ACTIVITY INDUSTRY	12
47	FINAL-D EXPORTS	7	8	ACTIVITY SERVICES	12
			15	COMPOSIT FORESTRY	12
			17	COMPOSIT INDUSTRY	12
			18	COMPOSIT SERVICES	12
			21	VA-TOTAL FORESTRY	12
			39	V-ADD INDIRECT TAX	4

ACCOUNT NO. 3 ACTIVITY MILLING

		INCOME			EXPENDITURE
16	COMPOSIT MILLING	11	1	ACTIVITY AGRICUL	12
47	FINAL-D EXPORTS	7	4	ACTIVITY INDUSTRY	12
48	EXPORT RICERUB	11	6	ACTIVITY WATER PRODUCT	12
			8	ACTIVITY SERVICES	12
			14	COMPOSIT AGRICUL	12
			15	COMPOSIT FORESTRY	12
			16	COMPOSIT MILLING	12
			17	COMPOSIT INDUSTRY	12
			18	COMPOSIT SERVICES	12
			22	VA-TOTAL MILLING	12
			39	V-ADD INDIRECT TAX	4

ACCOUNT NO. 4 ACTIVITY INDUSTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	1	ACTIVITY AGRICUL	12
2	ACTIVITY FORESTRY	12	4	ACTIVITY INDUSTRY	12
3	ACTIVITY MILLING	12	6	ACTIVITY WATER PRODUCT	12
4	ACTIVITY INDUSTRY	12	8	ACTIVITY SERVICES	12
5	ACTIVITY NATURAL WATER	12	14	COMPOSIT AGRICUL	12
7	ACTIVITY PUBLIC ADMIN	12	15	COMPOSIT FORESTRY	12
8	ACTIVITY SERVICES	12	16	COMPOSIT MILLING	12
17	COMPOSIT INDUSTRY	11	17	COMPOSIT INDUSTRY	12
19	COMBINE INT.MED WAT.PRD	12	18	COMPOSIT SERVICES	12
44	FINAL-D PRIVATE CONSUMPT	12	23	VA-TOTAL INDUSTRY	12
45	FINAL-D CAPITAL FORMATN	12	39	V-ADD INDIRECT TAX	4
46	FINAL-D CHANGE STOCK	3			
47	FINAL-D EXPORTS	7			
48	EXPORT RICERUB	11			
49	FINAL-D TOURISM	12			

ACCOUNT NO. 5 ACTIVITY NATURAL WATER

		INCOME			EXPENDITURE
19	COMBINE INT.MED WAT.PRD	12	4	ACTIVITY INDUSTRY	12
28	COMBINE LAND.WAT AGRICUL	11	8	ACTIVITY SERVICES	12
			17	COMPOSIT INDUSTRY	12
			18	COMPOSIT SERVICES	12
			24	VA-TOTAL NATURAL WATER	2

ACCOUNT NO.	6	ACTIVITY	WATER	PRODUCT			

					INCOME		EXPENDITURE
1		ACTIVITY	AGRICUL	12	19	COMBINE INT.MED WAT.PROD	12
3		ACTIVITY	MILLING	12	25	VA-TOTAL WATER PRODUCT	12
4		ACTIVITY	INDUSTRY	12	39	V-ADD INDIRECT TAX	4
7		ACTIVITY	PUBLIC ADMIN	12			
8		ACTIVITY	SERVICES	12			
44		FINAL-D	PRIVATE CONSUMPT	12			
ACCOUNT NO.	7	ACTIVITY	PUBLIC	ADMIN			

					INCOME		EXPENDITURE
59	CUR-ACC	GOV		3	1	ACTIVITY AGRICUL	12
					4	ACTIVITY INDUSTRY	12
					6	ACTIVITY WATER PRODUCT	12
					8	ACTIVITY SERVICES	12
					14	COMPOSIT AGRICUL	12
					16	COMPOSIT MILLING	12
					17	COMPOSIT INDUSTRY	12
					18	COMPOSIT SERVICES	12
					26	VA-TOTAL PUBLIC ADMIN	12
ACCOUNT NO.	8	ACTIVITY	SERVICES				

					INCOME		EXPENDITURE
1		ACTIVITY	AGRICUL	12	1	ACTIVITY AGRICUL	12
2		ACTIVITY	FORESTRY	12	4	ACTIVITY INDUSTRY	12
3		ACTIVITY	MILLING	12	6	ACTIVITY WATER PRODUCT	12
4		ACTIVITY	INDUSTRY	12	8	ACTIVITY SERVICES	12
5		ACTIVITY	NATURAL WATER	12	14	COMPOSIT AGRICUL	12
7		ACTIVITY	PUBLIC ADMIN	12	15	COMPOSIT FORESTRY	12
8		ACTIVITY	SERVICES	12	16	COMPOSIT MILLING	12
18		COMPOSIT	SERVICES	11	17	COMPOSIT INDUSTRY	12
19		COMBINE	INT.MED WAT.PROD	12	18	COMPOSIT SERVICES	12
44		FINAL-D	PRIVATE CONSUMPT	12	27	VA-TOTAL SERVICES	12
45		FINAL-D	CAPITAL FORMATN	12	39	V-ADD INDIRECT TAX	4
46		FINAL-D	CHANGE STOCK	3			
47		FINAL-D	EXPORTS	7			
49		FINAL-D	TOURISM	12			
ACCOUNT NO.	9	IMPORTED	AGRICUL				

					INCOME		EXPENDITURE
14	COMPOSIT	AGRICUL		11	50	R-O-W GD&SRV NINV.INC	10
					55	IMPORT TAX	4
ACCOUNT NO.	10	IMPORTED	FORESTRY				

					INCOME		EXPENDITURE
15	COMPOSIT	FORESTRY		11	50	R-O-W GD&SRV NINV.INC	10
					55	IMPORT TAX	4
ACCOUNT NO.	11	IMPORTED	MILLING				

					INCOME		EXPENDITURE
16	COMPOSIT	MILLING		11	50	R-O-W GD&SRV NINV.INC	10
					55	IMPORT TAX	4
ACCOUNT NO.	12	IMPORTED	INDUSTRY				

					INCOME		EXPENDITURE
17	COMPOSIT	INDUSTRY		11	50	R-O-W GD&SRV NINV.INC	10
					55	IMPORT TAX	4
ACCOUNT NO.	13	IMPORTED	SERVICES				

					INCOME		EXPENDITURE
18	COMPOSIT	SERVICES		11	50	R-O-W GD&SRV NINV.INC	10
					55	IMPORT TAX	4
ACCOUNT NO.	14	COMPOSIT	AGRICUL				

					INCOME		EXPENDITURE
1		ACTIVITY	AGRICUL	12	1	ACTIVITY AGRICUL	11
3		ACTIVITY	MILLING	12	9	IMPORTED AGRICUL	11
4		ACTIVITY	INDUSTRY	12			
7		ACTIVITY	PUBLIC ADMIN	12			
8		ACTIVITY	SERVICES	12			
44		FINAL-D	PRIVATE CONSUMPT	12			
45		FINAL-D	CAPITAL FORMATN	12			
46		FINAL-D	CHANGE STOCK	3			
49		FINAL-D	TOURISM	12			

ACCOUNT NO. 15 COMPOSIT FORESTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	2	ACTIVITY FORESTRY	11
2	ACTIVITY FORESTRY	12	10	IMPORTED FORESTRY	11
3	ACTIVITY MILLING	12			
4	ACTIVITY INDUSTRY	12			
8	ACTIVITY SERVICES	12			
44	FINAL-D PRIVATE CONSUMPT	12			
46	FINAL-D CHANGE STOCK	3			

ACCOUNT NO. 16 COMPOSIT MILLING

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	3	ACTIVITY MILLING	11
3	ACTIVITY MILLING	12	11	IMPORTED MILLING	11
4	ACTIVITY INDUSTRY	12			
7	ACTIVITY PUBLIC ADMIN	12			
8	ACTIVITY SERVICES	12			
44	FINAL-D PRIVATE CONSUMPT	12			
46	FINAL-D CHANGE STOCK	3			
49	FINAL-D TOURISM	12			

ACCOUNT NO. 17 COMPOSIT INDUSTRY

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	4	ACTIVITY INDUSTRY	11
2	ACTIVITY FORESTRY	12	12	IMPORTED INDUSTRY	11
3	ACTIVITY MILLING	12			
4	ACTIVITY INDUSTRY	12			
5	ACTIVITY NATURAL WATER	12			
7	ACTIVITY PUBLIC ADMIN	12			
8	ACTIVITY SERVICES	12			
19	COMBINE INT.MED WAT.PRD	12			
44	FINAL-D PRIVATE CONSUMPT	12			
45	FINAL-D CAPITAL FORMATN	12			
46	FINAL-D CHANGE STOCK	3			
49	FINAL-D TOURISM	12			

ACCOUNT NO. 18 COMPOSIT SERVICES

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	8	ACTIVITY SERVICES	11
2	ACTIVITY FORESTRY	12	13	IMPORTED SERVICES	11
3	ACTIVITY MILLING	12			
4	ACTIVITY INDUSTRY	12			
5	ACTIVITY NATURAL WATER	12			
7	ACTIVITY PUBLIC ADMIN	12			
8	ACTIVITY SERVICES	12			
19	COMBINE INT.MED WAT.PRD	12			
44	FINAL-D PRIVATE CONSUMPT	12			
45	FINAL-D CAPITAL FORMATN	12			
46	FINAL-D CHANGE STOCK	3			
49	FINAL-D TOURISM	12			

ACCOUNT NO. 19 COMBINE INT.MED WAT.PRD

		INCOME			EXPENDITURE
6	ACTIVITY WATER PRODUCT	12	4	ACTIVITY INDUSTRY	12
			5	ACTIVITY NATURAL WATER	12
			8	ACTIVITY SERVICES	12
			17	COMPOSIT INDUSTRY	12
			18	COMPOSIT SERVICES	12
			42	SUBSIDY NATURAL WATER	4

ACCOUNT NO. 20 VA-TOTAL AGRICUL

		INCOME			EXPENDITURE
1	ACTIVITY AGRICUL	12	28	COMBINE LAND.WAT AGRICUL	11
			33	V-ADD OTHER AGRICUL	11

ACCOUNT NO. 21 VA-TOTAL FORESTRY

		INCOME			EXPENDITURE
2	ACTIVITY FORESTRY	12	29	COMBINE LAND FORESTRY	12
			34	V-ADD OTHER FORESTRY	12

ACCOUNT NO. 22 VA-TOTAL MILLING

		INCOME			EXPENDITURE
3	ACTIVITY MILLING	12	36	V-ADD WAGES NON-AGR	11
			37	V-ADD OPERAT SURPLUS	11

ACCOUNT NO. 23 VA-TOTAL INDUSTRY								

4	ACTIVITY	INDUSTRY	INCOME	12	36 V-ADD	WAGES	NON-AGR	EXPENDITURE
					37 V-ADD	OPERAT	SURPLUS	11
ACCOUNT NO. 24 VA-TOTAL NATURAL WATER								

5	ACTIVITY	NATURAL	WATER	INCOME	2	32 V-ADD	LAND	NAT.WAT
					38 V-ADD	O.SURPLU	GOV	11
					43 V-ADD	GOVERN	EMPLOYEE	4
ACCOUNT NO. 25 VA-TOTAL WATER PRODUCT								

6	ACTIVITY	WATER	PRODUCT	INCOME	12	36 V-ADD	WAGES	NON-AGR
					37 V-ADD	OPERAT	SURPLUS	11
ACCOUNT NO. 26 VA-TOTAL PUBLIC ADMIN								

7	ACTIVITY	PUBLIC	ADMIN	INCOME	12	38 V-ADD	O.SURPLU	GOV
					43 V-ADD	GOVERN	EMPLOYEE	2
ACCOUNT NO. 27 VA-TOTAL SERVICES								

8	ACTIVITY	SERVICES		INCOME	12	36 V-ADD	WAGES	NON-AGR
					37 V-ADD	OPERAT	SURPLUS	11
ACCOUNT NO. 28 COMBINE LAND.WAT AGRICUL								

20	VA-TOTAL	AGRICUL		INCOME	11	5 ACTIVITY	NATURAL	WATER
					30 V-ADD	LAND	AGRICUL	11
					42 SUBSIDY	NATURAL	WATER	4
ACCOUNT NO. 29 COMBINE LAND FORESTRY								

21	VA-TOTAL	FORESTRY		INCOME	12	31 V-ADD	LAND	FORESTRY
					40 NET.RENT	FOREST	BENEFITS	12
					41 TAX	FOREST	BENEFITS	4
ACCOUNT NO. 30 V-ADD LAND AGRICUL								

28	COMBINE	LAND.WAT	AGRICUL	INCOME	11	57 CUR-ACC	H-H	EXPENDITURE
ACCOUNT NO. 31	V-ADD	LAND	FORESTRY					1

29	COMBINE	LAND	FORESTRY	INCOME	12	57 CUR-ACC	H-H	EXPENDITURE
ACCOUNT NO. 32	V-ADD	LAND	NAT.WAT					1

24	VA-TOTAL	NATURAL	WATER	INCOME	11	59 CUR-ACC	GOV	EXPENDITURE
ACCOUNT NO. 33	V-ADD	OTHER	AGRICUL					1

20	VA-TOTAL	AGRICUL		INCOME	11	35 V-ADD	WAGES	AGRICUL
					37 V-ADD	OPERAT	SURPLUS	11
ACCOUNT NO. 34 V-ADD OTHER FORESTRY								

21	VA-TOTAL	FORESTRY		INCOME	12	35 V-ADD	WAGES	AGRICUL
					37 V-ADD	OPERAT	SURPLUS	11
ACCOUNT NO. 35 V-ADD WAGES AGRICUL								

33	V-ADD	OTHER	AGRICUL	INCOME	11	57 CUR-ACC	H-H	EXPENDITURE
34	V-ADD	OTHER	FORESTRY		11			1
36	V-ADD	WAGES	NON-AGR		26			
43	V-ADD	GOVERN	EMPLOYEE		26			
ACCOUNT NO. 36 V-ADD WAGES NON-AGR								

22	VA-TOTAL	MILLING		INCOME	11	35 V-ADD	WAGES	AGRICUL
23	VA-TOTAL	INDUSTRY			11	57 CUR-ACC	H-H	26
25	VA-TOTAL	WATER	PRODUCT		11			2
27	VA-TOTAL	SERVICES			11			

ACCOUNT NO.	37	V-ADD	OPERAT	SURPLUS				
				INCOME		EXPENDITURE		
22	VA-TOTAL	MILLING		11	57	CUR-ACC	H-H	5
23	VA-TOTAL	INDUSTRY		11	58	CUR-ACC	P-CORP	5
25	VA-TOTAL	WATER	PRODUCT	11	60	CUR-ACC	STAT ENT	5
27	VA-TOTAL	SERVICES		11				
33	V-ADD	OTHER	AGRICUL	11				
34	V-ADD	OTHER	FORESTRY	11				
ACCOUNT NO.	38	V-ADD	O.SURPLU	GOV				
				INCOME		EXPENDITURE		
24	VA-TOTAL	NATURAL	WATER	4	59	CUR-ACC	GOV	1
26	VA-TOTAL	PUBLIC	ADMIN	2				
ACCOUNT NO.	39	V-ADD	INDIRECT	TAX				
				INCOME		EXPENDITURE		
1	ACTIVITY	AGRICUL		4	59	CUR-ACC	GOV	1
2	ACTIVITY	FORESTRY		4				
3	ACTIVITY	MILLING		4				
4	ACTIVITY	INDUSTRY		4				
6	ACTIVITY	WATER	PRODUCT	4				
8	ACTIVITY	SERVICES		4				
41	TAX	FOREST	BENEFITS	1				
ACCOUNT NO.	40	NET.RENT	FOREST	BENEFITS				
				INCOME		EXPENDITURE		
29	COMBINE	LAND	FORESTRY	12	57	CUR-ACC	H-H	1
ACCOUNT NO.	41	TAX	FOREST	BENEFITS				
				INCOME		EXPENDITURE		
29	COMBINE	LAND	FORESTRY	4	39	V-ADD	INDIRECT TAX	1
ACCOUNT NO.	42	SUBSIDY	NATURAL	WATER				
				INCOME		EXPENDITURE		
19	COMBINE	INT.MED	WAT.PRD	4	59	CUR-ACC	GOV	1
28	COMBINE	LAND.WAT	AGRICUL	4				
ACCOUNT NO.	43	V-ADD	GOVERN	EMPLOYEE				
				INCOME		EXPENDITURE		
24	VA-TOTAL	NATURAL	WATER	11	35	V-ADD	WAGES	26
26	VA-TOTAL	PUBLIC	ADMIN	12	57	CUR-ACC	H-H	2
ACCOUNT NO.	44	FINAL-D	PRIVATE	CONSUMPT				
				INCOME		EXPENDITURE		
57	CUR-ACC	H-H		4	1	ACTIVITY	AGRICUL	12
					4	ACTIVITY	INDUSTRY	12
					6	ACTIVITY	WATER	12
					8	ACTIVITY	SERVICES	12
					14	COMPOSIT	AGRICUL	12
					15	COMPOSIT	FORESTRY	12
					16	COMPOSIT	MILLING	12
					17	COMPOSIT	INDUSTRY	12
					18	COMPOSIT	SERVICES	12
ACCOUNT NO.	45	FINAL-D	CAPITAL	FORMATN				
				INCOME		EXPENDITURE		
61	SAV-POOL	H-H		3	4	ACTIVITY	INDUSTRY	12
62	SAV-POOL	P-CORP		3	8	ACTIVITY	SERVICES	12
63	SAV-POOL	GOV		3	14	COMPOSIT	AGRICUL	12
64	SAV-POOL	STAT ENT		3	17	COMPOSIT	INDUSTRY	12
ACCOUNT NO.	46	FINAL-D	CHANGE	STOCK				
				INCOME		EXPENDITURE		
62	SAV-POOL	P-CORP		2	1	ACTIVITY	AGRICUL	3
					4	ACTIVITY	INDUSTRY	3
					8	ACTIVITY	SERVICES	3
					14	COMPOSIT	AGRICUL	3
					15	COMPOSIT	FORESTRY	3
					16	COMPOSIT	MILLING	3
					17	COMPOSIT	INDUSTRY	3
					18	COMPOSIT	SERVICES	3

ACCOUNT NO. 47 FINAL-D EXPORTS					

			INCOME		EXPENDITURE
50 R-O-W	GD&SRV	NINV.INC	2	1 ACTIVITY AGRICUL	7
				2 ACTIVITY FORESTRY	7
				3 ACTIVITY MILLING	7
				4 ACTIVITY INDUSTRY	7
				8 ACTIVITY SERVICES	7
				48 EXPORT RICERUB	7
ACCOUNT NO. 48 EXPORT RICERUB					

			INCOME		EXPENDITURE
47 FINAL-D	EXPORTS		7	3 ACTIVITY MILLING	11
				4 ACTIVITY INDUSTRY	11
				56 EXPORT TAX	4
ACCOUNT NO. 49 FINAL-D TOURISM					

			INCOME		EXPENDITURE
50 R-O-W	GD&SRV	NINV.INC	7	4 ACTIVITY INDUSTRY	12
				8 ACTIVITY SERVICES	12
				14 COMPOSIT AGRICUL	12
				16 COMPOSIT MILLING	12
				17 COMPOSIT INDUSTRY	12
				18 COMPOSIT SERVICES	12
ACCOUNT NO. 50 R-O-W GD&SRV NINV.INC					

			INCOME		EXPENDITURE
9 IMPORTED AGRICUL			10	47 FINAL-D EXPORTS	2
10 IMPORTED FORESTRY			10	49 FINAL-D TOURISM	7
11 IMPORTED MILLING			10	54 R-O-W TOTAL	2
12 IMPORTED INDUSTRY			10	57 CUR-ACC H-H	3
13 IMPORTED SERVICES			10		
ACCOUNT NO. 51 R-O-W GD&SRV INV.INC					

			INCOME		EXPENDITURE
57 CUR-ACC H-H			3	54 R-O-W TOTAL	2
58 CUR-ACC P-CORP			3	58 CUR-ACC P-CORP	3
59 CUR-ACC GOV			3		
60 CUR-ACC STAT ENT			3		
ACCOUNT NO. 52 R-O-W TRANSFER					

			INCOME		EXPENDITURE
54 R-O-W TOTAL			2	58 CUR-ACC P-CORP	3
57 CUR-ACC H-H			3	59 CUR-ACC GOV	3
59 CUR-ACC GOV			3		
ACCOUNT NO. 53 R-O-W DIRECT INVESTM					

			INCOME		EXPENDITURE
54 R-O-W TOTAL			2	62 SAV-POOL P-CORP	3
ACCOUNT NO. 54 R-O-W TOTAL					

			INCOME		EXPENDITURE
50 R-O-W GD&SRV	NINV.INC		2	52 R-O-W TRANSFER	2
51 R-O-W GD&SRV	INV.INC		2	53 R-O-W DIRECT INVESTM	2
				62 SAV-POOL P-CORP	2
				63 SAV-POOL GOV	2
				64 SAV-POOL STAT ENT	2
ACCOUNT NO. 55 IMPORT TAX					

			INCOME		EXPENDITURE
9 IMPORTED AGRICUL			4	59 CUR-ACC GOV	1
10 IMPORTED FORESTRY			4		
11 IMPORTED MILLING			4		
12 IMPORTED INDUSTRY			4		
13 IMPORTED SERVICES			4		
ACCOUNT NO. 56 EXPORT TAX					

			INCOME		EXPENDITURE
48 EXPORT RICERUB			4	59 CUR-ACC GOV	1

ACCOUNT NO. 57 CUR-ACC H-H

			INCOME				EXPENDITURE
30 V-ADD	LAND	AGRICUL	1	44 FINAL-D	PRIVATE	CONSUMPT	4
31 V-ADD	LAND	FORESTRY	1	51 R-O-W	GD&SRV	INV.INC	3
35 V-ADD	WAGES	AGRICUL	1	52 R-O-W	TRANSFER		3
36 V-ADD	WAGES	NON-AGR	2	58 CUR-ACC	P-CORP		3
37 V-ADD	OPERAT	SURPLUS	5	59 CUR-ACC	GOV		4
40 NET.RENT	FOREST	BENEFITS	1	61 SAV-POOL	H-H		2
43 V-ADD	GOVERN	EMPLOYEE	2				
50 R-O-W	GD&SRV	NINV.INC	3				
58 CUR-ACC	P-CORP		4				
59 CUR-ACC	GOV		3				
60 CUR-ACC	STAT ENT		4				

ACCOUNT NO. 58 CUR-ACC P-CORP

			INCOME				EXPENDITURE
37 V-ADD	OPERAT	SURPLUS	5	51 R-O-W	GD&SRV	INV.INC	3
51 R-O-W	GD&SRV	INV.INC	3	57 CUR-ACC	H-H		4
52 R-O-W	TRANSFER		3	59 CUR-ACC	GOV		4
57 CUR-ACC	H-H		3	62 SAV-POOL	P-CORP		2
59 CUR-ACC	GOV		3				

ACCOUNT NO. 59 CUR-ACC GOV

			INCOME				EXPENDITURE
32 V-ADD	LAND	NAT.WAT	1	7 ACTIVITY	PUBLIC	ADMIN	3
38 V-ADD	O.SURPLU	GOV	1	51 R-O-W	GD&SRV	INV.INC	3
39 V-ADD	INDIRECT	TAX	1	52 R-O-W	TRANSFER		3
42 SUBSIDY	NATURAL	WATER	1	57 CUR-ACC	H-H		3
52 R-O-W	TRANSFER		3	58 CUR-ACC	P-CORP		3
55 IMPORT	TAX		1	63 SAV-POOL	GOV		2
56 EXPORT	TAX		1				
57 CUR-ACC	H-H		4				
58 CUR-ACC	P-CORP		4				
60 CUR-ACC	STAT ENT		4				

ACCOUNT NO. 60 CUR-ACC STAT ENT

			INCOME				EXPENDITURE
37 V-ADD	OPERAT	SURPLUS	5	51 R-O-W	GD&SRV	INV.INC	3
				57 CUR-ACC	H-H		4
				59 CUR-ACC	GOV		4
				64 SAV-POOL	STAT ENT		2

ACCOUNT NO. 61 SAV-POOL H-H

			INCOME				EXPENDITURE
57 CUR-ACC	H-H		2	45 FINAL-D	CAPITAL	FORMATN	3
				62 SAV-POOL	P-CORP		2
				63 SAV-POOL	GOV		3

ACCOUNT NO. 62 SAV-POOL P-CORP

			INCOME				EXPENDITURE
53 R-O-W	DIRECT	INVESTM	3	45 FINAL-D	CAPITAL	FORMATN	3
54 R-O-W	TOTAL		2	46 FINAL-D	CHANGE	STOCK	2
58 CUR-ACC	P-CORP		2	63 SAV-POOL	GOV		3
61 SAV-POOL	H-H		2				

ACCOUNT NO. 63 SAV-POOL GOV

			INCOME				EXPENDITURE
54 R-O-W	TOTAL		2	45 FINAL-D	CAPITAL	FORMATN	3
59 CUR-ACC	GOV		2				
61 SAV-POOL	H-H		3				
62 SAV-POOL	P-CORP		3				

ACCOUNT NO. 64 SAV-POOL STAT ENT

			INCOME				EXPENDITURE
54 R-O-W	TOTAL		2	45 FINAL-D	CAPITAL	FORMATN	3
60 CUR-ACC	STAT ENT		2				

TABLE A5
DEFINITION OF ACCOUNT TYPES

			P	Y	Q
1	ACTIVITY	AGRICUL	ENDO	ENDO	ENDO
2	ACTIVITY	FORESTRY	ENDO	ENDO	ENDO
3	ACTIVITY	MILLING	ENDO	ENDO	ENDO
4	ACTIVITY	INDUSTRY	ENDO	ENDO	ENDO
5	ACTIVITY	NATURAL WATER	EXO	ENDO	ENDO
6	ACTIVITY	WATER PRODUCT	ENDO	ENDO	ENDO
7	ACTIVITY	PUBLIC ADMIN	ENDO	ENDO	ENDO
8	ACTIVITY	SERVICES	ENDO	ENDO	ENDO
9	IMPORTED	AGRICUL	ENDO	ENDO	ENDO
10	IMPORTED	FORESTRY	ENDO	ENDO	ENDO
11	IMPORTED	MILLING	ENDO	ENDO	ENDO
12	IMPORTED	INDUSTRY	ENDO	ENDO	ENDO
13	IMPORTED	SERVICES	ENDO	ENDO	ENDO
14	COMPOSIT	AGRICUL	ENDO	ENDO	ENDO
15	COMPOSIT	FORESTRY	ENDO	ENDO	ENDO
16	COMPOSIT	MILLING	ENDO	ENDO	ENDO
17	COMPOSIT	INDUSTRY	ENDO	ENDO	ENDO
18	COMPOSIT	SERVICES	ENDO	ENDO	ENDO
19	COMBINE	INT.MED WAT.PRD	ENDO	ENDO	ENDO
20	VA-TOTAL	AGRICUL	ENDO	ENDO	ENDO
21	VA-TOTAL	FORESTRY	ENDO	ENDO	ENDO
22	VA-TOTAL	MILLING	ENDO	ENDO	ENDO
23	VA-TOTAL	INDUSTRY	ENDO	ENDO	ENDO
24	VA-TOTAL	NATURAL WATER	ENDO	ENDO	ENDO
25	VA-TOTAL	WATER PRODUCT	ENDO	ENDO	ENDO
26	VA-TOTAL	PUBLIC ADMIN	EXO	ENDO	ENDO
27	VA-TOTAL	SERVICES	ENDO	ENDO	ENDO
28	COMBINE	LAND.WAT AGRICUL	ENDO	ENDO	ENDO
29	COMBINE	LAND FORESTRY	ENDO	ENDO	ENDO
30	V-ADD	LAND AGRICUL	ENDO	ENDO	EXO
31	V-ADD	LAND FORESTRY	EXO	ENDO	ENDO
32	V-ADD	LAND NAT.WAT	ENDO	ENDO	EXO
33	V-ADD	OTHER AGRICUL	ENDO	ENDO	ENDO
34	V-ADD	OTHER FORESTRY	ENDO	ENDO	ENDO
35	V-ADD	WAGES AGRICUL	ENDO	ENDO	EXO
36	V-ADD	WAGES NON-AGR	ENDO	ENDO	ENDO
37	V-ADD	OPERAT SURPLUS	ENDO	ENDO	EXO
38	V-ADD	O.SURPLU GOV	UNDF	ENDO	UNDF
39	V-ADD	INDIRECT TAX	UNDF	ENDO	UNDF
40	NET.RENT	FOREST BENEFITS	EXO	ENDO	ENDO
41	TAX	FOREST BENEFITS	UNDF	ENDO	UNDF
42	SUBSIDY	NATURAL WATER	EXO	ENDO	ENDO
43	V-ADD	GOVERN EMPLOYEE	EXO	EXO	ENDO
44	FINAL-D	PRIVATE CONSUMPT	ENDO	ENDO	ENDO
45	FINAL-D	CAPITAL FORMATN	ENDO	ENDO	ENDO
46	FINAL-D	CHANGE STOCK	UNDF	ENDO	UNDF
47	FINAL-D	EXPORTS	EXO	ENDO	ENDO
48	EXPORT	RICERUB	ENDO	ENDO	ENDO
49	FINAL-D	TOURISM	ENDO	ENDO	ENDO
50	R-O-W	GD&SRV NINV.INC	EXO	ENDO	ENDO
51	R-O-W	GD&SRV INV.INC	UNDF	ENDO	UNDF
52	R-O-W	TRANSFER	UNDF	ENDO	UNDF
53	R-O-W	DIRECT INVESTM	UNDF	ENDO	UNDF
54	R-O-W	TOTAL	UNDF	ENDO	UNDF
55	IMPORT	TAX	UNDF	ENDO	UNDF
56	EXPORT	TAX	UNDF	ENDO	UNDF
57	CUR-ACC	H-H	UNDF	ENDO	UNDF
58	CUR-ACC	P-CORP	UNDF	ENDO	UNDF
59	CUR-ACC	GOV	UNDF	ENDO	UNDF
60	CUR-ACC	STAT ENT	UNDF	ENDO	UNDF
61	SAV-POOL	H-H	UNDF	ENDO	UNDF
62	SAV-POOL	P-CORP	UNDF	ENDO	UNDF
63	SAV-POOL	GOV	UNDF	ENDO	UNDF
64	SAV-POOL	STAT ENT	UNDF	ENDO	UNDF

**TABLE A6
PARAMETERS REQUIRED FOR MODEL**

PARAMETER ETA IS USED IN THE FOLLOWING ACCOUNTS:

1 ACTIVITY AGRICUL
2 ACTIVITY FORESTRY
3 ACTIVITY MILLING
4 ACTIVITY INDUSTRY
8 ACTIVITY SERVICES
48 EXPORT RICERUB
49 FINAL-D TOURISM

PARAMETER SIGM IS USED IN THE FOLLOWING ACCOUNTS:

14 COMPOSIT AGRICUL
15 COMPOSIT FORESTRY
16 COMPOSIT MILLING
17 COMPOSIT INDUSTRY
18 COMPOSIT SERVICES
20 VA-TOTAL AGRICUL
22 VA-TOTAL MILLING
23 VA-TOTAL INDUSTRY
24 VA-TOTAL NATURAL WATER
25 VA-TOTAL WATER PRODUCT
27 VA-TOTAL SERVICES
28 COMBINE LAND.WAT AGRICUL
33 V-ADD OTHER AGRICUL
34 V-ADD OTHER FORESTRY
48 EXPORT RICERUB

PARAMETER C IS USED IN THE FOLLOWING CELLS:

57 CUR-ACC H-H - 37 V-ADD OPERAT SURPLUS
58 CUR-ACC P-CORP - 37 V-ADD OPERAT SURPLUS
60 CUR-ACC STAT ENT - 37 V-ADD OPERAT SURPLUS

PARAMETER F IS USED IN THE FOLLOWING CELLS:

1 ACTIVITY AGRICUL - 46 FINAL-D CHANGE STOCK
4 ACTIVITY INDUSTRY - 46 FINAL-D CHANGE STOCK
8 ACTIVITY SERVICES - 46 FINAL-D CHANGE STOCK
14 COMPOSIT AGRICUL - 46 FINAL-D CHANGE STOCK
15 COMPOSIT FORESTRY - 46 FINAL-D CHANGE STOCK
16 COMPOSIT MILLING - 46 FINAL-D CHANGE STOCK
17 COMPOSIT INDUSTRY - 46 FINAL-D CHANGE STOCK
18 COMPOSIT SERVICES - 46 FINAL-D CHANGE STOCK
57 CUR-ACC H-H - 50 R-O-W GD&SRV NINV.INC
58 CUR-ACC P-CORP - 51 R-O-W GD&SRV INV.INC
58 CUR-ACC P-CORP - 52 R-O-W TRANSFER
59 CUR-ACC GOV - 52 R-O-W TRANSFER
62 SAV-POOL P-CORP - 53 R-O-W DIRECT INVESTM
51 R-O-W GD&SRV INV.INC - 57 CUR-ACC H-H
52 R-O-W TRANSFER - 57 CUR-ACC H-H
58 CUR-ACC P-CORP - 57 CUR-ACC H-H
51 R-O-W GD&SRV INV.INC - 58 CUR-ACC P-CORP
7 ACTIVITY PUBLIC ADMIN - 59 CUR-ACC GOV
51 R-O-W GD&SRV INV.INC - 59 CUR-ACC GOV
52 R-O-W TRANSFER - 59 CUR-ACC GOV
57 CUR-ACC H-H - 59 CUR-ACC GOV
58 CUR-ACC P-CORP - 59 CUR-ACC GOV
51 R-O-W GD&SRV INV.INC - 60 CUR-ACC STAT ENT
45 FINAL-D CAPITAL FORMATN - 61 SAV-POOL H-H
63 SAV-POOL GOV - 61 SAV-POOL H-H
45 FINAL-D CAPITAL FORMATN - 62 SAV-POOL P-CORP
63 SAV-POOL GOV - 62 SAV-POOL P-CORP
45 FINAL-D CAPITAL FORMATN - 63 SAV-POOL GOV
45 FINAL-D CAPITAL FORMATN - 64 SAV-POOL STAT ENT

PARAMETER R IS USED IN THE FOLLOWING CELLS:

1 ACTIVITY AGRICUL - 47 FINAL-D EXPORTS
2 ACTIVITY FORESTRY - 47 FINAL-D EXPORTS
3 ACTIVITY MILLING - 47 FINAL-D EXPORTS
4 ACTIVITY INDUSTRY - 47 FINAL-D EXPORTS
8 ACTIVITY SERVICES - 47 FINAL-D EXPORTS
48 EXPORT RICERUB - 47 FINAL-D EXPORTS
49 FINAL-D TOURISM - 50 R-O-W GD&SRV NINV.INC

PARAMETER THEY IS USED IN THE FOLLOWING CELLS:

39	V-ADD	INDIRECT	TAX	-	1	ACTIVITY	AGRICUL	
39	V-ADD	INDIRECT	TAX	-	2	ACTIVITY	FORESTRY	
39	V-ADD	INDIRECT	TAX	-	3	ACTIVITY	MILLING	
39	V-ADD	INDIRECT	TAX	-	4	ACTIVITY	INDUSTRY	
39	V-ADD	INDIRECT	TAX	-	6	ACTIVITY	WATER	PRODUCT
39	V-ADD	INDIRECT	TAX	-	8	ACTIVITY	SERVICES	
55	IMPORT	TAX		-	9	IMPORTED	AGRICUL	
55	IMPORT	TAX		-	10	IMPORTED	FORESTRY	
55	IMPORT	TAX		-	11	IMPORTED	MILLING	
55	IMPORT	TAX		-	12	IMPORTED	INDUSTRY	
55	IMPORT	TAX		-	13	IMPORTED	SERVICES	
42	SUBSIDY	NATURAL	WATER	-	19	COMBINE	INT.MED	WAT.PRD
38	V-ADD	O.SURPLU	GOV	-	24	VA-TOTAL	NATURAL	WATER
42	SUBSIDY	NATURAL	WATER	-	28	COMBINE	LAND.WAT	AGRICUL
41	TAX	FOREST	BENEFITS	-	29	COMBINE	LAND	FORESTRY
56	EXPORT	TAX		-	48	EXPORT	RICERUB	
44	FINAL-D	PRIVATE	CONSUMPT	-	57	CUR-ACC	H-H	
59	CUR-ACC	GOV		-	57	CUR-ACC	H-H	
57	CUR-ACC	H-H		-	58	CUR-ACC	P-CORP	
59	CUR-ACC	GOV		-	58	CUR-ACC	P-CORP	
57	CUR-ACC	H-H		-	60	CUR-ACC	STAT ENT	
59	CUR-ACC	GOV		-	60	CUR-ACC	STAT ENT	

PARAMETER PIM IS USED IN THE FOLLOWING ACCOUNTS:

9	IMPORTED	AGRICUL
10	IMPORTED	FORESTRY
11	IMPORTED	MILLING
12	IMPORTED	INDUSTRY
13	IMPORTED	SERVICES

PARAMETER PIX IS USED IN THE FOLLOWING ACCOUNTS:

1	ACTIVITY	AGRICUL
2	ACTIVITY	FORESTRY
3	ACTIVITY	MILLING
4	ACTIVITY	INDUSTRY
8	ACTIVITY	SERVICES
48	EXPORT	RICERUB
49	FINAL-D	TOURISM

EXOGENOUS PRICES ARE USED IN THE FOLLOWING ACCOUNTS:

5	ACTIVITY	NATURAL	WATER
26	VA-TOTAL	PUBLIC	ADMIN
31	V-ADD	LAND	FORESTRY
40	NET.RENT	FOREST	BENEFITS
42	SUBSIDY	NATURAL	WATER
43	V-ADD	GOVERN	EMPLOYEE
47	FINAL-D	EXPORTS	
50	R-O-W	GD&SRV	NINV.INC

EXOGENOUS VALUES ARE USED IN THE FOLLOWING ACCOUNTS:

43	V-ADD	GOVERN	EMPLOYEE
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EXOGENOUS QUANTITIES ARE USED IN THE FOLLOWING ACCOUNTS:

30	V-ADD	LAND	AGRICUL
32	V-ADD	LAND	NAT.WAT
35	V-ADD	WAGES	AGRICUL
37	V-ADD	OPERAT	SURPLUS

TABLE A7
ELASTICITY VALUES IN THE SIMULATIONS

PARAMETER ETA IS USED IN THE FOLLOWING ACCOUNTS:

1	ACTIVITY	AGRICUL	2.0
2	ACTIVITY	FORESTRY	2.0
3	ACTIVITY	MILLING	1.2
4	ACTIVITY	INDUSTRY	1.2
8	ACTIVITY	SERVICES	1.2
48	EXPORT	RICERUB	2.0
49	FINAL-D	TOURISM	1.2

PARAMETER SIGM IS USED IN THE FOLLOWING ACCOUNTS:

14	COMPOSIT	AGRICUL	0.8
15	COMPOSIT	FORESTRY	4.0
16	COMPOSIT	MILLING	0.8
17	COMPOSIT	INDUSTRY	1.2
18	COMPOSIT	SERVICES	1.2
20	VA-TOTAL	AGRICUL	0.6
22	VA-TOTAL	MILLING	1.2
23	VA-TOTAL	INDUSTRY	1.2
24	VA-TOTAL	NATURAL WATER	0.6
25	VA-TOTAL	WATER PRODUCT	1.2
27	VA-TOTAL	SERVICES	1.2
28	COMBINE	LAND.WAT AGRICUL	2.0
33	V-ADD	OTHER AGRICUL	1.2
34	V-ADD	OTHER FORESTRY	1.2
48	EXPORT	RICERUB	1.2

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %%	0	1
MERC. EXPORT	158770.314	158606.199	AGRICULTURE SURPLUS	0.000	3.280
TOURISM INCOME	27317.401	27345.317	AGRICULTURE LAND	0.000	-3.778
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	2.579
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.449
OTH. SERV. RECEIPT	28360.540	28394.290	NATURAL WATER LAND	0.000	-7.089
TOT.EXPORT GD.SRV.	246261.655	246159.207	NON-AGRIC SURPLUS	0.000	-0.161
MERC. IMPORT	212386.643	212175.757	NON-AGRIC WAGE	0.000	0.250
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22380.850	EMP.SHARE AGRICUL %	0.000	-0.881
TOT.IMPORT GD.SRV.	270199.673	269986.507	EMP.SHARE FOREST %	0.000	-0.726
TRADE BALANCE	53616.328	53569.557	EMP.SHARE INDUSTRY %	0.000	2.793
AS % OF GDP	5.396	5.409	EMP.SHARE SERVICES %	0.000	2.306
SERV. BALANCE	29678.311	29742.257	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	3.003	CAP.SHARE AGRICUL %	0.000	3.252
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	3.411
CURR. BALANCE	19809.917	19699.200	CAP.SHARE INDUSTRY %	0.000	0.121
AS % OF GDP	1.994	1.989	CAP.SHARE SERVICES %	0.000	-0.366
EXTERNAL BALANCE			FACTOR PRICES		
	0	1	**** GROWTH %%	0	1
MERC. EXPORT	0.000	-0.103	AGRICULTURE SURPLUS	100.000	100.025
TOURISM INCOME	0.000	0.102	AGRICULTURE LAND	100.000	96.222
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	103.489
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.119	NATURAL WATER LAND	100.000	92.911
TOT.EXPORT GD.SRV.	0.000	-0.042	NON-AGRIC SURPLUS	100.000	100.025
MERC. IMPORT	0.000	-0.099	NON-AGRIC WAGE	100.000	97.844
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	-0.010			
TOT.IMPORT GD.SRV.	0.000	-0.079	FACTOR PRICES		
TRADE BALANCE	0.000	-0.087	**** GROWTH %%	0	1
AS % OF GDP	0.000	0.242	AGRICULTURE SURPLUS	0.000	0.025
SERV. BALANCE	0.000	0.215	AGRICULTURE LAND	0.000	-3.778
AS % OF GDP	0.000	0.546	AGRICULTURE WAGE	0.000	3.489
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	-0.559	NATURAL WATER LAND	0.000	-7.089
AS % OF GDP	0.000	-0.231	NON-AGRIC SURPLUS	0.000	0.025
			NON-AGRIC WAGE	0.000	-2.156
			GOVERNMENT WAGE	0.000	0.000
FACTOR USE & INCOME			GOVERNMENT ACCOUNT		
	0	1		0	1
AGRICULTURE SURPLUS	27701.610	28610.300	INDIRECT TAX	86832.389	80608.758
AGRICULTURE LAND	37787.521	36359.812	EXPORT&IMPORT TAX	31554.067	31531.026
AGRICULTURE WAGE	68615.720	70385.640	DIRECT TAX	36365.050	36395.680
FORESTRY LAND	835.514	839.266	OTHER REVENUES	10949.350	10872.860
NATURAL WATER LAND	377.870	351.082	TOTAL INCOME	165700.856	159408.324
NON-AGRIC SURPLUS	483366.231	482586.649	PUBLIC ADMINISTR	128816.750	128816.750
NON-AGRIC WAGE	203820.949	204330.315	SUBSIDY NAT.WATER	4253.251	0.000
GOVERNMENT WAGE	42740.120	42740.120	SUBSIDY WATER,PRD	2039.340	0.000
EMP.SHARE AGRICUL %	68.901	68.294	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE FOREST %	0.917	0.911	TOTAL EXPENDITURES	161631.941	155339.350
EMP.SHARE INDUSTRY %	7.841	8.060	GOVERNMENT SAVINGS	4068.915	4068.974
EMP.SHARE SERVICES %	17.114	17.508	GOVERNMENT INVESTM	37809.000	37809.000
EMP.SHARE GOV.EMPL %	5.227	5.227	GOV. NET SAVINGS	-33740.085	-33740.026
CAP.SHARE AGRICUL %	5.349	5.523	NET RENT FOREST	7776.345	7811.267
CAP.SHARE FOREST %	0.071	0.074	TAX FOREST SECTOR	76.200	70.760
CAP.SHARE INDUSTRY %	34.777	34.819			
CAP.SHARE SERVICES %	59.803	59.584			

GOVERNMENT ACCOUNT			FOREST ACCOUNT		
**** GROWTH %XX	0	1		0	1
INDIRECT TAX	0.000	-7.167	Q.DOM FORESTRY	17068.368	17145.018
EXPORT&IMPORT TAX	0.000	-0.073	Q.IMP FORESTRY	647.904	649.632
DIRECT TAX	0.000	0.084	TOTAL Q FORESTRY	17716.273	17794.651
OTHER REVENUES	0.000	-0.699	AGRICULTURE USE	551.400	551.702
TOTAL INCOME	0.000	-3.798	FORESTRY USE	1995.960	2004.926
PUBLIC ADMINISTR	0.000	0.000	MILLING USE	37.700	37.677
SUBSIDY NAT.WATER	0.000	-100.000	INDUSTRY USE	3314.750	3343.868
SUBSIDY WATER.PRD	0.000	-100.000	SERVICES USE	974.870	979.418
OTHER EXPENDITURES	0.000	0.000	HH CONSUMPTION	10901.791	10937.099
TOTAL EXPENDITURES	0.000	-3.893	NET INVESTMENT	-449.310	-449.515
GOVERNMENT SAVINGS	0.000	0.001	EXPORTS	389.110	389.475
GOVERNMENT INVESTM	0.000	0.000	LAND FORESTRY	835.514	839.266
GOV. NET SAVINGS	0.000	-00.000			
NET RENT FOREST	0.000	0.449	FOREST ACCOUNT		
TAX FOREST SECTOR	0.000	-7.139	**** GROWTH %XX	0	1
INDIRECT TAX RATES			Q.DOM FORESTRY	0.000	0.449
	0	1	Q.IMP FORESTRY	0.000	0.267
IN.TX RATE AGRICUL	0.815	0.753	TOTAL Q FORESTRY	0.000	0.442
IN.TX RATE FORESTRY	0.448	0.415	AGRICULTURE USE	0.000	0.055
IN.TX RATE MILLING	2.608	2.411	FORESTRY USE	0.000	0.449
IN.TX RATE INDUSTRY	7.271	6.721	MILLING USE	0.000	-0.060
IN.TX RATE NAT.WATER	-100.000	0.000	INDUSTRY USE	0.000	0.878
IN.TX RATE WATER.PRD	-28.813	0.000	SERVICES USE	0.000	0.466
IN.TX RATE SERVICES	3.205	2.963	HH CONSUMPTION	0.000	0.324
			NET INVESTMENT	0.000	0.046
INDIRECT TAX RATES			EXPORTS	0.000	0.094
**** GROWTH %XX	0	1	LAND FORESTRY	0.000	0.449
IN.TX RATE AGRICUL	0.000	-7.557			
IN.TX RATE FORESTRY	0.000	-7.541			
IN.TX RATE MILLING	0.000	-7.557			
IN.TX RATE INDUSTRY	0.000	-7.557			
IN.TX RATE NAT.WATER	0.000	-100.000			
IN.TX RATE WATER.PRD	0.000	-100.000			
IN.TX RATE SERVICES	0.000	-7.557			
WATER ACCOUNT					
	0	1			
Q NATURAL WATER	4253.250	4044.085			
AGRICULTURE USE	2910.070	2694.320			
WATER.PRD USE	1343.180	1349.760			
Q WATER PRODUCT.	5038.400	5063.080			
AGRICULTURE USE	5.500	5.501			
MILLING USE	56.940	56.901			
INDUSTRY USE	872.900	880.568			
PUB.ADMIN USE	368.840	369.585			
SERVICES USE	2950.001	2963.760			
CONSUMPTION	784.220	786.761			
WATER ACCOUNT					
**** GROWTH %XX	0	1			
Q NATURAL WATER	0.000	-4.918			
AGRICULTURE USE	0.000	-7.414			
WATER.PRD USE	0.000	0.490			
Q WATER PRODUCT.	0.000	0.490			
AGRICULTURE USE	0.000	0.020			
MILLING USE	0.000	-0.069			
INDUSTRY USE	0.000	0.878			
PUB.ADMIN USE	0.000	0.202			
SERVICES USE	0.000	0.466			
CONSUMPTION	0.000	0.324			

Table A9
Reduce All Water subsidies by 50%

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	677946.514
GOVERNMENT CONSUMPTION	133070.001	130912.841
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187065.353
TOURISTS	27317.401	27331.326
TOTAL FINAL DEMAND	1258113.095	1256301.934
IMPORTS	264428.029	264311.806
NOMINAL GDP	993685.066	991990.128
FINAL DEMAND	0	1
**** GROWTH %XX	0	1
H-H CONSUMPTION	0.000	0.059
GOVERNMENT CONSUMPTION	0.000	-1.621
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	-0.035
TOURISTS	0.000	0.051
TOTAL FINAL DEMAND	0.000	-0.144
IMPORTS	0.000	-0.044
NOMINAL GDP	0.000	-0.171
REAL GDP	0	1
AGRICUL	137687.884	137722.830
FORESTRY	9997.050	10019.205
MILLING	15273.094	15267.844
INDUSTRY	311253.334	312600.161
NATURAL WATER	3485.851	3395.449
WATER PRODUCT	2656.449	2662.892
PUBLIC ADMIN	43948.226	43995.130
SERVICES	469383.395	470467.745
TOTAL GDP	993685.283	996131.257
NET RENT FOREST	7776.352	7826.067
NET GDP	985908.931	988305.189
REAL GDP	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.025
FORESTRY	0.000	0.222
MILLING	0.000	-0.034
INDUSTRY	0.000	0.433
NATURAL WATER	0.000	-2.593
WATER PRODUCT	0.000	0.243
PUBLIC ADMIN	0.000	0.107
SERVICES	0.000	0.231
TOTAL GDP	0.000	0.246
NET RENT FOREST	0.000	0.639
NET GDP	0.000	0.243
SECTORAL OUTPUT	0	1
AGRICUL	224042.783	224099.647
FORESTRY	17068.368	17106.194
MILLING	121780.414	121738.552
INDUSTRY	854495.754	858193.250
NATURAL WATER	4253.250	4142.947
WATER PRODUCT	5038.400	5050.621
PUBLIC ADMIN	770740.760	772521.293
SUM OUTPUT	1997419.731	2002852.507

SECTORAL OUTPUT	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.025
FORESTRY	0.000	0.222
MILLING	0.000	-0.034
INDUSTRY	0.000	0.433
NATURAL WATER	0.000	-2.593
WATER PRODUCT	0.000	0.243
PUBLIC ADMIN	0.000	0.231
SUM OUTPUT	0.000	0.272
DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	100.744
FORESTRY	100.000	99.976
MILLING	100.000	100.264
INDUSTRY	100.000	99.563
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	131.255
PUBLIC ADMIN	100.000	99.893
SERVICES	100.000	99.702
TOTAL DOM.OUTPUT	100.000	99.877
DOM.OUTPUT PRICE	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.744
FORESTRY	0.000	-0.024
MILLING	0.000	0.264
INDUSTRY	0.000	-0.437
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	31.255
PUBLIC ADMIN	0.000	-0.107
SERVICES	0.000	-0.298
TOTAL DOM.OUTPUT	0.000	-0.123
PRICE CONSUMPTION	0	1
AGRICUL	100.000	100.700
FORESTRY	100.000	99.977
MILLING	100.000	100.263
INDUSTRY	100.000	99.697
WATER PRODUCT	100.000	131.255
SERVICES	100.000	99.711
ALL CONSUMPTION	100.000	99.899
PRICE CONSUMPTION	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.700
FORESTRY	0.000	-0.023
MILLING	0.000	0.263
INDUSTRY	0.000	-0.303
WATER PRODUCT	0.000	31.255
SERVICES	0.000	-0.289
ALL CONSUMPTION	0.000	-0.101

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %XX	0	1
MERC. EXPORT	158770.314	158687.883	AGRICULTURE SURPLUS	0.000	1.614
TOURISM INCOME	27317.401	27331.326	AGRICULTURE LAND	0.000	-1.971
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	1.273
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.222
OTH. SERV. RECEIPT	28360.540	28377.470	NATURAL WATER LAND	0.000	-3.762
TOT.EXPORT GD.SRV.	246261.655	246210.079	NON-AGRIC SURPLUS	0.000	-0.077
MERC. IMPORT	212386.643	212283.033	NON-AGRIC WAGE	0.000	0.126
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22381.290	EMP.SHARE AGRICUL %	0.000	-0.433
TOT.IMPORT GD.SRV.	270199.673	270094.223	EMP.SHARE FOREST %	0.000	-0.359
TRADE BALANCE	53616.328	53595.150	EMP.SHARE INDUSTRY %	0.000	1.371
AS % OF GDP	5.396	5.403	EMP.SHARE SERVICES %	0.000	1.134
SERV. BALANCE	29678.311	29711.006	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	2.995	CAP.SHARE AGRICUL %	0.000	1.599
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	1.672
CURR. BALANCE	19809.917	19756.043	CAP.SHARE INDUSTRY %	0.000	0.060
AS % OF GDP	1.994	1.992	CAP.SHARE SERVICES %	0.000	-0.180
EXTERNAL BALANCE			FACTOR PRICES		
	0	1	**** GROWTH %XX	0	1
MERC. EXPORT	0.000	-0.052	AGRICULTURE SURPLUS	100.000	100.014
TOURISM INCOME	0.000	0.051	AGRICULTURE LAND	100.000	98.029
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	101.712
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.060	NATURAL WATER LAND	100.000	96.238
TOT.EXPORT GD.SRV.	0.000	-0.021	NON-AGRIC SURPLUS	100.000	100.014
MERC. IMPORT	0.000	-0.049	NON-AGRIC WAGE	100.000	98.930
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	-0.008	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.039		0	1
TRADE BALANCE	0.000	-0.040	**** GROWTH %XX	0	1
AS % OF GDP	0.000	0.131	AGRICULTURE SURPLUS	0.000	0.014
SERV. BALANCE	0.000	0.110	AGRICULTURE LAND	0.000	-1.971
AS % OF GDP	0.000	0.281	AGRICULTURE WAGE	0.000	1.712
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	-0.272	NATURAL WATER LAND	0.000	-3.762
AS % OF GDP	0.000	-0.102	NON-AGRIC SURPLUS	0.000	0.014
FACTOR USE & INCOME			NON-AGRIC WAGE	0.000	-1.070
	0	1	GOVERNMENT WAGE	0.000	0.000
AGRICULTURE SURPLUS	27701.610	28148.720	GOVERNMENT ACCOUNT		
AGRICULTURE LAND	37787.521	37042.883		0	1
AGRICULTURE WAGE	68615.720	69488.900	INDIRECT TAX	86832.389	83788.898
FORESTRY LAND	835.514	837.365	EXPORT&IMPORT TAX	31554.067	31542.750
NATURAL WATER LAND	377.870	363.654	DIRECT TAX	36365.050	36379.580
NON-AGRIC SURPLUS	483366.231	482992.226	OTHER REVENUES	10949.350	10908.920
NON-AGRIC WAGE	203820.949	204077.471	TOTAL INCOME	165700.856	162620.148
GOVERNMENT WAGE	42740.120	42740.120	PUBLIC ADMINISTR	128816.750	128816.750
EMP.SHARE AGRICUL %	68.901	68.603	SUBSIDY NAT.WATER	4253.251	2096.091
EMP.SHARE FOREST %	0.917	0.914	SUBSIDY WATER.PRD	2039.340	1115.800
EMP.SHARE INDUSTRY %	7.841	7.948	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE SERVICES %	17.114	17.308	TOTAL EXPENDITURES	161631.941	158551.241
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT SAVINGS	4068.915	4068.907
CAP.SHARE AGRICUL %	5.349	5.435	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE FOREST %	0.071	0.072	GOV. NET SAVINGS	-33740.085	-33740.093
CAP.SHARE INDUSTRY %	34.777	34.798	NET RENT FOREST	7776.345	7793.579
CAP.SHARE SERVICES %	59.803	59.695	TAX FOREST SECTOR	76.200	73.540

GOVERNMENT ACCOUNT		
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	-3.505
EXPORT&IMPORT TAX	0.000	-0.036
DIRECT TAX	0.000	0.040
OTHER REVENUES	0.000	-0.369
TOTAL INCOME	0.000	-1.859
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-50.718
SUBSIDY WATER.PRD	0.000	-45.286
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-1.906
GOVERNMENT SAVINGS	0.000	-00.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	0.222
TAX FOREST SECTOR	0.000	-3.491

INDIRECT TAX RATES

	0	1
IN.TX RATE AGRICUL	0.815	0.785
IN.TX RATE FORESTRY	0.448	0.432
IN.TX RATE MILLING	2.608	2.511
IN.TX RATE INDUSTRY	7.271	7.001
IN.TX RATE NAT.WATER	-100.000	-50.594
IN.TX RATE WATER.PRD	-28.813	-14.407
IN.TX RATE SERVICES	3.205	3.086

INDIRECT TAX RATES

**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-3.702
IN.TX RATE FORESTRY	0.000	-3.697
IN.TX RATE MILLING	0.000	-3.702
IN.TX RATE INDUSTRY	0.000	-3.702
IN.TX RATE NAT.WATER	0.000	-49.406
IN.TX RATE WATER.PRD	0.000	-50.000
IN.TX RATE SERVICES	0.000	-3.702

WATER ACCOUNT

	0	1
Q NATURAL WATER	4253.250	4142.947
AGRICULTURE USE	2910.070	2796.510
WATER.PRD USE	1343.180	1346.440
Q WATER PRODUCT.	5038.400	5050.621
AGRICULTURE USE	5.500	5.501
MILLING USE	56.940	56.920
INDUSTRY USE	872.900	876.681
PUB.ADMIN USE	368.840	369.235
SERVICES USE	2950.001	2956.817
CONSUMPTION	784.220	785.477

WATER ACCOUNT

**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	-2.593
AGRICULTURE USE	0.000	-3.902
WATER.PRD USE	0.000	0.243
Q WATER PRODUCT.	0.000	0.243
AGRICULTURE USE	0.000	0.013
MILLING USE	0.000	-0.036
INDUSTRY USE	0.000	0.433
PUB.ADMIN USE	0.000	0.107
SERVICES USE	0.000	0.231
CONSUMPTION	0.000	0.160

FOREST ACCOUNT

	0	1
Q.DOM FORESTRY	17068.368	17106.194
Q.IMP FORESTRY	647.904	648.735
TOTAL Q FORESTRY	17716.273	17754.929
AGRICULTURE USE	551.400	551.539
FORESTRY USE	1995.960	2000.388
MILLING USE	37.700	37.689
INDUSTRY USE	3314.750	3329.089
SERVICES USE	974.870	977.119
HH CONSUMPTION	10901.791	10919.216
NET INVESTMENT	-449.310	-449.415
EXPORTS	389.110	389.295
LAND FORESTRY	835.514	837.365

FOREST ACCOUNT

**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	0.222
Q.IMP FORESTRY	0.000	0.128
TOTAL Q FORESTRY	0.000	0.218
AGRICULTURE USE	0.000	0.025
FORESTRY USE	0.000	0.222
MILLING USE	0.000	-0.030
INDUSTRY USE	0.000	0.433
SERVICES USE	0.000	0.231
HH CONSUMPTION	0.000	0.160
NET INVESTMENT	0.000	0.023
EXPORTS	0.000	0.047
LAND FORESTRY	0.000	0.222

Table A10
Reduce all water subsidies by 20%

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	677700.728
GOVERNMENT CONSUMPTION	133070.001	132199.287
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187104.550
TOURISTS	27317.401	27322.967
TOTAL FINAL DEMAND	1258113.095	1257373.433
IMPORTS	264428.029	264381.838
NOMINAL GDP	993685.066	992991.595

FINAL DEMAND	0	1
**** GROWTH %XX		
H-H CONSUMPTION	0.000	0.022
GOVERNMENT CONSUMPTION	0.000	-0.654
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	-0.014
TOURISTS	0.000	0.020
TOTAL FINAL DEMAND	0.000	-0.059
IMPORTS	0.000	-0.017
NOMINAL GDP	0.000	-0.070

REAL GDP	0	1
AGRICUL	137687.884	137701.119
FORESTRY	9997.050	10005.847
MILLING	15273.094	15270.984
INDUSTRY	311253.334	311787.533
NATURAL WATER	3485.851	3448.504
WATER PRODUCT	2656.449	2659.013
PUBLIC ADMIN	43948.226	43967.593
SERVICES	469383.395	469814.883
TOTAL GDP	993685.283	994655.476
NET RENT FOREST	7776.352	7796.224
NET GDP	985908.931	986859.252

REAL GDP	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.010
FORESTRY	0.000	0.088
MILLING	0.000	-0.014
INDUSTRY	0.000	0.172
NATURAL WATER	0.000	-1.071
WATER PRODUCT	0.000	0.097
PUBLIC ADMIN	0.000	0.044
SERVICES	0.000	0.092
TOTAL GDP	0.000	0.098
NET RENT FOREST	0.000	0.256
NET GDP	0.000	0.096

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	224064.319
FORESTRY	17068.368	17083.387
MILLING	121780.414	121763.595
INDUSTRY	854495.754	855962.311
NATURAL WATER	4253.250	4207.682
WATER PRODUCT	5038.400	5043.263
PUBLIC ADMIN	770740.760	771449.276
SUM OUTPUT	1997419.731	1999573.833

SECTORAL OUTPUT	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.010
FORESTRY	0.000	0.088
MILLING	0.000	-0.014
INDUSTRY	0.000	0.172
NATURAL WATER	0.000	-1.071
WATER PRODUCT	0.000	0.097
PUBLIC ADMIN	0.000	0.092
SUM OUTPUT	0.000	0.108

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	100.296
FORESTRY	100.000	99.990
MILLING	100.000	100.105
INDUSTRY	100.000	99.826
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	112.063
PUBLIC ADMIN	100.000	99.956
SERVICES	100.000	99.880
TOTAL DOM.OUTPUT	100.000	99.950

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.296
FORESTRY	0.000	-0.010
MILLING	0.000	0.105
INDUSTRY	0.000	-0.174
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	12.064
PUBLIC ADMIN	0.000	-0.044
SERVICES	0.000	-0.120
TOTAL DOM.OUTPUT	0.000	-0.050

PRICE CONSUMPTION	0	1
AGRICUL	100.000	100.278
FORESTRY	100.000	99.991
MILLING	100.000	100.104
INDUSTRY	100.000	99.880
NATURAL WATER	100.000	112.063
WATER PRODUCT	100.000	99.884
SERVICES	100.000	99.959
ALL CONSUMPTION	100.000	99.959

PRICE CONSUMPTION	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.278
FORESTRY	0.000	-0.009
MILLING	0.000	0.104
INDUSTRY	0.000	-0.120
NATURAL WATER	0.000	12.064
WATER PRODUCT	0.000	-0.116
SERVICES	0.000	-0.116
ALL CONSUMPTION	0.000	-0.041

EXTERNAL BALANCE	0	1
MERC. EXPORT	158770.314	158737.220
TOURISM INCOME	27317.401	27322.967
REMITTANCES	26602.500	26602.500
INTERESTS RECEIPT	5210.900	5210.900
OTH. SERV. RECEIPT	28360.540	28367.330
TOT.EXPORT GD.SRV.	246261.655	246240.917
MERC. IMPORT	212386.643	212345.623
INTERESTS PAYM.	35429.900	35429.900
OTH. SERV. PAYM.	22383.130	22382.220
TOT.IMPORT GD.SRV.	270199.673	270157.743
TRADE BALANCE	53616.328	53608.403
AS % OF GDP	5.396	5.399
SERV. BALANCE	29678.311	29691.577
AS % OF GDP	2.987	2.990
NET TRANSFER	4128.100	4128.100
CURR. BALANCE	19809.917	19788.726
AS % OF GDP	1.994	1.993

EXTERNAL BALANCE	0	1
**** GROWTH %XX		
MERC. EXPORT	0.000	-0.021
TOURISM INCOME	0.000	0.020
REMITTANCES	0.000	0.000
INTERESTS RECEIPT	0.000	0.000
OTH. SERV. RECEIPT	0.000	0.024
TOT.EXPORT GD.SRV.	0.000	-0.008
MERC. IMPORT	0.000	-0.019
INTERESTS PAYM.	0.000	0.000
OTH. SERV. PAYM.	0.000	-0.004
TOT.IMPORT GD.SRV.	0.000	-0.016
TRADE BALANCE	0.000	-0.015
AS % OF GDP	0.000	0.055
SERV. BALANCE	0.000	0.045
AS % OF GDP	0.000	0.115
NET TRANSFER	0.000	0.000
CURR. BALANCE	0.000	-0.107
AS % OF GDP	0.000	-0.037

FACTOR USE & INCOME	0	1
AGRICULTURE SURPLUS	27701.610	27878.870
AGRICULTURE LAND	37787.521	37482.011
AGRICULTURE WAGE	68615.720	68962.430
FORESTRY LAND	835.514	836.249
NATURAL WATER LAND	377.870	371.974
NON-AGRIC SURPLUS	483366.231	483220.203
NON-AGRIC WAGE	203820.949	203924.012
GOVERNMENT WAGE	42740.120	42740.120
EMP.SHARE AGRICUL %	68.901	68.783
EMP.SHARE FOREST %	0.917	0.916
EMP.SHARE INDUSTRY %	7.841	7.883
EMP.SHARE SERVICES %	17.114	17.191
EMP.SHARE GOV.EMPL %	5.227	5.227
CAP.SHARE AGRICUL %	5.349	5.383
CAP.SHARE FOREST %	0.071	0.072
CAP.SHARE INDUSTRY %	34.777	34.785
CAP.SHARE SERVICES %	59.803	59.760

FACTOR USE & INCOME	0	1
**** GROWTH %XX		
AGRICULTURE SURPLUS	0.000	0.640
AGRICULTURE LAND	0.000	-0.808
AGRICULTURE WAGE	0.000	0.505
FORESTRY LAND	0.000	0.088
NATURAL WATER LAND	0.000	-1.560
NON-AGRIC SURPLUS	0.000	-0.030
NON-AGRIC WAGE	0.000	0.051
GOVERNMENT WAGE	0.000	0.000
EMP.SHARE AGRICUL %	0.000	-0.171
EMP.SHARE FOREST %	0.000	-0.142
EMP.SHARE INDUSTRY %	0.000	0.542
EMP.SHARE SERVICES %	0.000	0.449
EMP.SHARE GOV.EMPL %	0.000	0.000
CAP.SHARE AGRICUL %	0.000	0.633
CAP.SHARE FOREST %	0.000	0.661
CAP.SHARE INDUSTRY %	0.000	0.024
CAP.SHARE SERVICES %	0.000	-0.071

FACTOR PRICES	0	1
AGRICULTURE SURPLUS	100.000	100.006
AGRICULTURE LAND	100.000	99.191
AGRICULTURE WAGE	100.000	100.678
FORESTRY LAND	100.000	100.000
NATURAL WATER LAND	100.000	98.440
NON-AGRIC SURPLUS	100.000	100.006
NON-AGRIC WAGE	100.000	99.574
GOVERNMENT WAGE	100.000	100.000

FACTOR PRICES	0	1
**** GROWTH %XX		
AGRICULTURE SURPLUS	0.000	0.006
AGRICULTURE LAND	0.000	-0.808
AGRICULTURE WAGE	0.000	0.678
FORESTRY LAND	0.000	0.000
NATURAL WATER LAND	0.000	-1.560
NON-AGRIC SURPLUS	0.000	0.006
NON-AGRIC WAGE	0.000	-0.426
GOVERNMENT WAGE	0.000	0.000

GOVERNMENT ACCOUNT	0	1
INDIRECT TAX	86832.389	85630.926
EXPORT&IMPORT TAX	31554.067	31549.587
DIRECT TAX	36365.050	36370.670
OTHER REVENUES	10949.350	10932.630
TOTAL INCOME	165700.856	164483.814
PUBLIC ADMINISTR	128816.750	128816.750
SUBSIDY NAT.WATER	4253.251	3382.537
SUBSIDY WATER.PRD	2039.340	1693.000
OTHER EXPENDITURES	26522.600	26522.600
TOTAL EXPENDITURES	161631.941	160414.887
GOVERNMENT SAVINGS	4068.915	4068.926
GOVERNMENT INVESTM	37809.000	37809.000
GOV. NET SAVINGS	-33740.085	-33740.074
NET RENT FOREST	7776.345	7783.188
TAX FOREST SECTOR	76.200	75.150

GOVERNMENT ACCOUNT		
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	-1.384
EXPORT&IMPORT TAX	0.000	-0.014
DIRECT TAX	0.000	0.015
OTHER REVENUES	0.000	-0.153
TOTAL INCOME	0.000	-0.734
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-20.472
SUBSIDY WATER.PRD	0.000	-16.983
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-0.753
GOVERNMENT SAVINGS	0.000	00.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	0.088
TAX FOREST SECTOR	0.000	-1.378

INDIRECT TAX RATES

	0	1
IN.TX RATE AGRICUL	0.815	0.803
IN.TX RATE FORESTRY	0.448	0.442
IN.TX RATE MILLING	2.608	2.570
IN.TX RATE INDUSTRY	7.271	7.164
IN.TX RATE NAT.WATER	-100.000	-80.390
IN.TX RATE WATER.PRD	-28.813	-23.051
IN.TX RATE SERVICES	3.205	3.158

INDIRECT TAX RATES

**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-1.463
IN.TX RATE FORESTRY	0.000	-1.461
IN.TX RATE MILLING	0.000	-1.463
IN.TX RATE INDUSTRY	0.000	-1.463
IN.TX RATE NAT.WATER	0.000	-19.610
IN.TX RATE WATER.PRD	0.000	-20.000
IN.TX RATE SERVICES	0.000	-1.463

WATER ACCOUNT

	0	1
Q NATURAL WATER	4253.250	4207.682
AGRICULTURE USE	2910.070	2863.200
WATER.PRD USE	1343.180	1344.480
Q WATER PRODUCT.	5038.400	5043.263
AGRICULTURE USE	5.500	5.497
MILLING USE	56.940	56.932
INDUSTRY USE	872.900	874.397
PUB.ADMIN USE	368.840	369.005
SERVICES USE	2950.001	2952.711
CONSUMPTION	784.220	784.716

WATER ACCOUNT

**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	-1.071
AGRICULTURE USE	0.000	-1.611
WATER.PRD USE	0.000	0.097
Q WATER PRODUCT.	0.000	0.097
AGRICULTURE USE	0.000	-0.057
MILLING USE	0.000	-0.014
INDUSTRY USE	0.000	0.172
PUB.ADMIN USE	0.000	0.045
SERVICES USE	0.000	0.092
CONSUMPTION	0.000	0.063

FOREST ACCOUNT		
	0	1
Q.DOM FORESTRY	17068.368	17083.387
Q.IMP FORESTRY	647.904	648.229
TOTAL Q FORESTRY	17716.273	17731.616
AGRICULTURE USE	551.400	551.452
FORESTRY USE	1995.960	1997.720
MILLING USE	37.700	37.694
INDUSTRY USE	3314.750	3320.435
SERVICES USE	974.870	975.763
HH CONSUMPTION	10901.791	10908.706
NET INVESTMENT	-449.310	-449.353
EXPORTS	389.110	389.188
LAND FORESTRY	835.514	836.249

FOREST ACCOUNT

**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	0.088
Q.IMP FORESTRY	0.000	0.050
TOTAL Q FORESTRY	0.000	0.087
AGRICULTURE USE	0.000	0.009
FORESTRY USE	0.000	0.088
MILLING USE	0.000	-0.017
INDUSTRY USE	0.000	0.172
SERVICES USE	0.000	0.092
HH CONSUMPTION	0.000	0.063
NET INVESTMENT	0.000	0.009
EXPORTS	0.000	0.020
LAND FORESTRY	0.000	0.088

Table A11
Remove subsidy on natural water

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	677687.663
GOVERNMENT CONSUMPTION	133070.001	128816.750
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187000.298
TOURISTS	27317.401	27337.815
TOTAL FINAL DEMAND	1258113.095	1253888.426
IMPORTS	264428.029	264242.185
NOMINAL GDP	993685.066	989646.241

FINAL DEMAND	0	1
**** GROWTH %XX		
H-H CONSUMPTION	0.000	0.020
GOVERNMENT CONSUMPTION	0.000	-3.196
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	-0.070
TOURISTS	0.000	0.075
TOTAL FINAL DEMAND	0.000	-0.336
IMPORTS	0.000	-0.070
NOMINAL GDP	0.000	-0.406

REAL GDP	0	1
AGRICUL	137687.884	137660.693
FORESTRY	9997.050	10024.348
MILLING	15273.094	15257.229
INDUSTRY	311253.334	313001.364
NATURAL WATER	3485.851	3280.419
WATER PRODUCT	2656.449	2665.013
PUBLIC ADMIN	43948.226	44056.348
SERVICES	469383.395	470818.004
TOTAL GDP	993685.283	996763.420
NET RENT FOREST	7776.352	7853.584
NET GDP	985908.931	988909.836

REAL GDP	0	1
**** GROWTH %XX		
AGRICUL	0.000	-0.020
FORESTRY	0.000	0.273
MILLING	0.000	-0.104
INDUSTRY	0.000	0.562
NATURAL WATER	0.000	-5.893
WATER PRODUCT	0.000	0.322
PUBLIC ADMIN	0.000	0.246
SERVICES	0.000	0.306
TOTAL GDP	0.000	0.310
NET RENT FOREST	0.000	0.993
NET GDP	0.000	0.304

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	223998.539
FORESTRY	17068.368	17114.976
MILLING	121780.414	121653.915
INDUSTRY	854495.754	859294.688
NATURAL WATER	4253.250	4002.594
WATER PRODUCT	5038.400	5054.645
PUBLIC ADMIN	770740.760	773096.429
SUM OUTPUT	1997419.731	2004215.786

SECTORAL OUTPUT	0	1
**** GROWTH %XX		
AGRICUL	0.000	-0.020
FORESTRY	0.000	0.273
MILLING	0.000	-0.104
INDUSTRY	0.000	0.562
NATURAL WATER	0.000	-5.893
WATER PRODUCT	0.000	0.322
PUBLIC ADMIN	0.000	0.306
SUM OUTPUT	0.000	0.340

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	101.130
FORESTRY	100.000	99.970
MILLING	100.000	100.426
INDUSTRY	100.000	99.425
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	118.530
PUBLIC ADMIN	100.000	99.755
SERVICES	100.000	99.532
TOTAL DOM.OUTPUT	100.000	99.770

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX		
AGRICUL	0.000	1.130
FORESTRY	0.000	-0.030
MILLING	0.000	0.426
INDUSTRY	0.000	-0.575
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	18.530
PUBLIC ADMIN	0.000	-0.245
SERVICES	0.000	-0.468
TOTAL DOM.OUTPUT	0.000	-0.230

PRICE CONSUMPTION	0	1
AGRICUL	100.000	101.064
FORESTRY	100.000	99.971
MILLING	100.000	100.424
INDUSTRY	100.000	99.601
NATURAL WATER	100.000	118.530
WATER PRODUCT	100.000	99.547
SERVICES	100.000	99.832
ALL CONSUMPTION	100.000	99.832

PRICE CONSUMPTION	0	1
**** GROWTH %XX		
AGRICUL	0.000	1.064
FORESTRY	0.000	-0.029
MILLING	0.000	0.424
INDUSTRY	0.000	-0.399
NATURAL WATER	0.000	18.530
WATER PRODUCT	0.000	-0.453
SERVICES	0.000	-0.453
ALL CONSUMPTION	0.000	-0.168

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %XX		
			0	1	
MERC. EXPORT	158770.314	158613.148	AGRICULTURE SURPLUS	0.000	2.290
TOURISM INCOME	27317.401	27337.815	AGRICULTURE LAND	0.000	-4.482
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	1.816
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.273
OTH. SERV. RECEIPT	28360.540	28387.150	NATURAL WATER LAND	0.000	-8.585
TOT.EXPORT GD.SRV.	246261.655	246151.513	NON-AGRIC SURPLUS	0.000	-0.078
MERC. IMPORT	212386.643	212234.126	NON-AGRIC WAGE	0.000	0.193
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22365.770	EMP.SHARE AGRICUL %	0.000	-0.573
TOT.IMPORT GD.SRV.	270199.673	270029.796	EMP.SHARE FOREST %	0.000	-0.528
TRADE BALANCE	53616.328	53620.978	EMP.SHARE INDUSTRY %	0.000	1.809
AS % OF GDP	5.396	5.418	EMP.SHARE SERVICES %	0.000	1.508
SERV. BALANCE	29678.311	29742.695	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	3.005	CAP.SHARE AGRICUL %	0.000	2.238
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	2.281
CURR. BALANCE	19809.917	19750.184	CAP.SHARE INDUSTRY %	0.000	0.064
AS % OF GDP	1.994	1.996	CAP.SHARE SERVICES %	0.000	-0.240
EXTERNAL BALANCE			FACTOR PRICES		
**** GROWTH %XX			**** GROWTH %XX		
	0	1		0	1
MERC. EXPORT	0.000	-0.099	AGRICULTURE SURPLUS	100.000	100.050
TOURISM INCOME	0.000	0.075	AGRICULTURE LAND	100.000	95.518
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	102.402
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.094	NATURAL WATER LAND	100.000	91.415
TOT.EXPORT GD.SRV.	0.000	-0.045	NON-AGRIC SURPLUS	100.000	100.050
MERC. IMPORT	0.000	-0.072	NON-AGRIC WAGE	100.000	98.613
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	-0.078	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.063	**** GROWTH %XX		
TRADE BALANCE	0.000	0.009		0	1
AS % OF GDP	0.000	0.417	AGRICULTURE SURPLUS	0.000	0.050
SERV. BALANCE	0.000	0.217	AGRICULTURE LAND	0.000	-4.482
AS % OF GDP	0.000	0.626	AGRICULTURE WAGE	0.000	2.402
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	-0.302	NATURAL WATER LAND	0.000	-8.585
AS % OF GDP	0.000	0.105	NON-AGRIC SURPLUS	0.000	0.050
FACTOR USE & INCOME			NON-AGRIC WAGE		
	0	1	GOVERNMENT WAGE		
				0.000	0.000
AGRICULTURE SURPLUS	27701.610	28335.980	GOVERNMENT ACCOUNT		
AGRICULTURE LAND	37787.521	36094.058		0	1
AGRICULTURE WAGE	68615.720	69861.650	INDIRECT TAX	86832.389	83064.295
FORESTRY LAND	835.514	837.795	EXPORT&IMPORT TAX	31554.067	31536.393
NATURAL WATER LAND	377.870	345.429	DIRECT TAX	36365.050	36375.320
NON-AGRIC SURPLUS	483366.231	482989.513	OTHER REVENUES	10949.350	10857.290
NON-AGRIC WAGE	203820.949	204213.801	TOTAL INCOME	165700.856	161833.298
GOVERNMENT WAGE	42740.120	42740.120	PUBLIC ADMINISTR	128816.750	128816.750
EMP.SHARE AGRICUL %	68.901	68.506	SUBSIDY NAT.WATER	4253.251	0.000
EMP.SHARE FOREST %	0.917	0.913	SUBSIDY WATER.PRD	2039.340	2425.030
EMP.SHARE INDUSTRY %	7.841	7.982	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE SERVICES %	17.114	17.372	TOTAL EXPENDITURES	161631.941	157764.380
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT SAVINGS	4068.915	4068.918
CAP.SHARE AGRICUL %	5.349	5.469	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE FOREST %	0.071	0.073	GOV. NET SAVINGS	-33740.085	-33740.082
CAP.SHARE INDUSTRY %	34.777	34.799	NET RENT FOREST	7776.345	7797.580
CAP.SHARE SERVICES %	59.803	59.659	TAX FOREST SECTOR	76.200	72.920

GOVERNMENT ACCOUNT	0	1
**** GROWTH %XX		
INDIRECT TAX	0.000	-4.340
EXPORT&IMPORT TAX	0.000	-0.056
DIRECT TAX	0.000	0.028
OTHER REVENUES	0.000	-0.841
TOTAL INCOME	0.000	-2.334
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-100.000
SUBSIDY WATER.PRD	0.000	18.912
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-2.393
GOVERNMENT SAVINGS	0.000	0.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	0.273
TAX FOREST SECTOR	0.000	-4.304

INDIRECT TAX RATES	0	1
IN.TX RATE AGRICUL	0.815	0.778
IN.TX RATE FORESTRY	0.448	0.428
IN.TX RATE MILLING	2.608	2.489
IN.TX RATE INDUSTRY	7.271	6.939
IN.TX RATE NAT.WATER	-100.000	0.000
IN.TX RATE WATER.PRD	-28.813	-28.813
IN.TX RATE SERVICES	3.205	3.059

INDIRECT TAX RATES	0	1
**** GROWTH %XX		
IN.TX RATE AGRICUL	0.000	-4.558
IN.TX RATE FORESTRY	0.000	-4.556
IN.TX RATE MILLING	0.000	-4.558
IN.TX RATE INDUSTRY	0.000	-4.558
IN.TX RATE NAT.WATER	0.000	-100.000
IN.TX RATE WATER.PRD	0.000	0.000
IN.TX RATE SERVICES	0.000	-4.558

WATER ACCOUNT	0	1
Q NATURAL WATER	4253.250	4002.594
AGRICULTURE USE	2910.070	2655.080
WATER.PRD USE	1343.180	1347.510
Q WATER PRODUCT.	5038.400	5054.645
AGRICULTURE USE	5.500	5.501
MILLING USE	56.940	56.880
INDUSTRY USE	872.900	877.802
PUB.ADMIN USE	368.840	369.745
SERVICES USE	2950.001	2959.018
CONSUMPTION	784.220	785.707

WATER ACCOUNT	0	1
**** GROWTH %XX		
Q NATURAL WATER	0.000	-5.893
AGRICULTURE USE	0.000	-8.762
WATER.PRD USE	0.000	0.322
Q WATER PRODUCT.	0.000	0.322
AGRICULTURE USE	0.000	0.013
MILLING USE	0.000	-0.105
INDUSTRY USE	0.000	0.562
PUB.ADMIN USE	0.000	0.245
SERVICES USE	0.000	0.306
CONSUMPTION	0.000	0.190

FOREST ACCOUNT	0	1
Q.DOM FORESTRY	17068.368	17114.976
Q.IMP FORESTRY	647.904	648.920
TOTAL Q FORESTRY	17716.273	17763.896
AGRICULTURE USE	551.400	551.290
FORESTRY USE	1995.960	2001.413
MILLING USE	37.700	37.661
INDUSTRY USE	3314.750	3333.370
SERVICES USE	974.870	977.855
HH CONSUMPTION	10901.791	10922.409
NET INVESTMENT	-449.310	-449.441
EXPORTS	389.110	389.348
LAND FORESTRY	835.514	837.795

FOREST ACCOUNT	0	1
**** GROWTH %XX		
Q.DOM FORESTRY	0.000	0.273
Q.IMP FORESTRY	0.000	0.157
TOTAL Q FORESTRY	0.000	0.269
AGRICULTURE USE	0.000	-0.020
FORESTRY USE	0.000	0.273
MILLING USE	0.000	-0.104
INDUSTRY USE	0.000	0.562
SERVICES USE	0.000	0.306
HH CONSUMPTION	0.000	0.189
NET INVESTMENT	0.000	0.029
EXPORTS	0.000	0.061
LAND FORESTRY	0.000	0.273

Table A12
Remove Subsidies on Water Production

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	678149.579
GOVERNMENT CONSUMPTION	133070.001	133089.250
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187133.418
TOURISTS	27317.401	27323.591
TOTAL FINAL DEMAND	1258113.095	1258741.738
IMPORTS	264428.029	264387.822
NOMINAL GDP	993685.066	994353.916

FINAL DEMAND	0	1
**** GROWTH %XX		
H-H CONSUMPTION	0.000	0.089
GOVERNMENT CONSUMPTION	0.000	0.014
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	0.001
TOURISTS	0.000	0.023
TOTAL FINAL DEMAND	0.000	0.050
IMPORTS	0.000	-0.015
NOMINAL GDP	0.000	0.067

REAL GDP	0	1
AGRICUL	137687.884	137776.189
FORESTRY	9997.050	10011.775
MILLING	15273.094	15278.192
INDUSTRY	311253.334	312071.416
NATURAL WATER	3485.851	3516.377
WATER PRODUCT	2656.449	2660.143
PUBLIC ADMIN	43948.226	43931.236
SERVICES	469383.395	470011.254
TOTAL GDP	993685.283	995256.581
NET RENT FOREST	7776.352	7794.849
NET GDP	985908.931	987461.732

REAL GDP	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.064
FORESTRY	0.000	0.147
MILLING	0.000	0.033
INDUSTRY	0.000	0.263
NATURAL WATER	0.000	0.876
WATER PRODUCT	0.000	0.139
PUBLIC ADMIN	0.000	-0.039
SERVICES	0.000	0.134
TOTAL GDP	0.000	0.158
NET RENT FOREST	0.000	0.238
NET GDP	0.000	0.157

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	224186.471
FORESTRY	17068.368	17093.509
MILLING	121780.414	121821.064
INDUSTRY	854495.754	856741.666
NATURAL WATER	4253.250	4290.497
WATER PRODUCT	5038.400	5045.407
PUBLIC ADMIN	770740.760	771771.722
SUM OUTPUT	1997419.731	2000950.336

SECTORAL OUTPUT	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.064
FORESTRY	0.000	0.147
MILLING	0.000	0.033
INDUSTRY	0.000	0.263
NATURAL WATER	0.000	0.876
WATER PRODUCT	0.000	0.139
PUBLIC ADMIN	0.000	0.134
SUM OUTPUT	0.000	0.177

DOM. OUTPUT PRICE	0	1
AGRICUL	100.000	100.300
FORESTRY	100.000	99.984
MILLING	100.000	100.084
INDUSTRY	100.000	99.741
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	140.209
PUBLIC ADMIN	100.000	100.039
SERVICES	100.000	99.898
TOTAL DOM. OUTPUT	100.000	99.993

DOM. OUTPUT PRICE	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.300
FORESTRY	0.000	-0.016
MILLING	0.000	0.084
INDUSTRY	0.000	-0.259
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	40.209
PUBLIC ADMIN	0.000	0.039
SERVICES	0.000	-0.102
TOTAL DOM. OUTPUT	0.000	-0.007

PRICE CONSUMPTION	0	1
AGRICUL	100.000	100.283
FORESTRY	100.000	99.985
MILLING	100.000	100.084
INDUSTRY	100.000	99.821
NATURAL WATER	100.000	140.209
WATER PRODUCT	100.000	99.901
SERVICES	100.000	99.976
ALL CONSUMPTION	100.000	99.976

PRICE CONSUMPTION	0	1
**** GROWTH %XX		
AGRICUL	0.000	0.283
FORESTRY	0.000	-0.015
MILLING	0.000	0.084
INDUSTRY	0.000	-0.179
NATURAL WATER	0.000	40.209
WATER PRODUCT	0.000	-0.099
SERVICES	0.000	-0.024
ALL CONSUMPTION	0.000	-0.024

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %%%	0	1
MERC. EXPORT	158770.314	158767.078	AGRICULTURE SURPLUS	0.000	0.800
TOURISM INCOME	27317.401	27323.591	AGRICULTURE LAND	0.000	0.606
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	0.620
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.147
OTH. SERV. RECEIPT	28360.540	28366.340	NATURAL WATER LAND	0.000	1.377
TOT.EXPORT GD.SRV.	246261.655	246270.409	NON-AGRIC SURPLUS	0.000	-0.067
MERC. IMPORT	212386.643	212338.294	NON-AGRIC WAGE	0.000	0.050
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22396.260	EMP.SHARE AGRICUL %	0.000	-0.252
TOT.IMPORT GD.SRV.	270199.673	270164.454	EMP.SHARE FOREST %	0.000	-0.160
TRADE BALANCE -	53616.328	53571.216	EMP.SHARE INDUSTRY %	0.000	0.804
AS % OF GDP	5.396	5.388	EMP.SHARE SERVICES %	0.000	0.653
SERV. BALANCE	29678.311	29677.171	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	2.985	CAP.SHARE AGRICUL %	0.000	0.819
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	0.910
CURR. BALANCE	19809.917	19765.945	CAP.SHARE INDUSTRY %	0.000	0.050
AS % OF GDP	1.994	1.988	CAP.SHARE SERVICES %	0.000	-0.103
EXTERNAL BALANCE			FACTOR PRICES		
**** GROWTH %%%			**** GROWTH %%%		
	0	1		0	1
MERC. EXPORT	0.000	-0.002	AGRICULTURE SURPLUS	100.000	99.980
TOURISM INCOME	0.000	0.023	AGRICULTURE LAND	100.000	100.606
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	100.873
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.020	NATURAL WATER LAND	100.000	101.377
TOT.EXPORT GD.SRV.	0.000	0.004	NON-AGRIC SURPLUS	100.000	99.980
MERC. IMPORT	0.000	-0.023	NON-AGRIC WAGE	100.000	99.353
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	0.059	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.013	**** GROWTH %%%		
TRADE BALANCE	0.000	-0.084		0	1
AS % OF GDP	0.000	-0.151	AGRICULTURE SURPLUS	0.000	-0.020
SERV. BALANCE	0.000	-0.004	AGRICULTURE LAND	0.000	0.606
AS % OF GDP	0.000	-0.071	AGRICULTURE WAGE	0.000	0.873
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	-0.222	NATURAL WATER LAND	0.000	1.377
AS % OF GDP	0.000	-0.289	NON-AGRIC SURPLUS	0.000	-0.020
FACTOR USE & INCOME			NON-AGRIC WAGE	0.000	-0.647
	0	1	GOVERNMENT WAGE	0.000	0.000
AGRICULTURE SURPLUS	27701.610	27923.110	GOVERNMENT ACCOUNT		
AGRICULTURE LAND	37787.521	38016.525		0	1
AGRICULTURE WAGE	68615.720	69041.450	INDIRECT TAX	86832.389	84785.323
FORESTRY LAND	835.514	836.744	EXPORT&IMPORT TAX	31554.067	31549.665
NATURAL WATER LAND	377.870	383.073	DIRECT TAX	36365.050	36382.240
NON-AGRIC SURPLUS	483366.231	483042.427	OTHER REVENUES	10949.350	10963.540
NON-AGRIC WAGE	203820.949	203921.900	TOTAL INCOME	165700.856	163680.768
GOVERNMENT WAGE	42740.120	42740.120	PUBLIC ADMINISTR	128816.750	128816.750
EMP.SHARE AGRICUL %	68.901	68.728	SUBSIDY NAT.WATER	4253.251	4272.500
EMP.SHARE FOREST %	0.917	0.916	SUBSIDY WATER.PROD	2039.340	0.000
EMP.SHARE INDUSTRY %	7.841	7.904	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE SERVICES %	17.114	17.226	TOTAL EXPENDITURES	161631.941	159611.850
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT SAVINGS	4068.915	4068.918
CAP.SHARE AGRICUL %	5.349	5.393	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE FOREST %	0.071	0.072	GOV. NET SAVINGS	-33740.085	-33740.082
CAP.SHARE INDUSTRY %	34.777	34.794	NET RENT FOREST	7776.345	7787.799
CAP.SHARE SERVICES %	59.803	59.741	TAX FOREST SECTOR	76.200	74.390

GOVERNMENT ACCOUNT		
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	-2.357
EXPORT&IMPORT TAX	0.000	-0.014
DIRECT TAX	0.000	0.047
OTHER REVENUES	0.000	0.130
TOTAL INCOME	0.000	-1.219
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	0.453
SUBSIDY WATER.PRD	0.000	-100.000
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-1.250
GOVERNMENT SAVINGS	0.000	0.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	0.147
TAX FOREST SECTOR	0.000	-2.375

INDIRECT TAX RATES		
	0	1
IN.TX RATE AGRICUL	0.815	0.794
IN.TX RATE FORESTRY	0.448	0.437
IN.TX RATE MILLING	2.608	2.542
IN.TX RATE INDUSTRY	7.271	7.088
IN.TX RATE NAT.WATER	-100.000	-99.581
IN.TX RATE WATER.PRD	-28.813	0.000
IN.TX RATE SERVICES	3.205	3.124

INDIRECT TAX RATES		
**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-2.514
IN.TX RATE FORESTRY	0.000	-2.514
IN.TX RATE MILLING	0.000	-2.514
IN.TX RATE INDUSTRY	0.000	-2.514
IN.TX RATE NAT.WATER	0.000	-0.419
IN.TX RATE WATER.PRD	0.000	-100.000
IN.TX RATE SERVICES	0.000	-2.514

WATER ACCOUNT		
	0	1
Q NATURAL WATER	4253.250	4290.497
AGRICULTURE USE	2910.070	2945.450
WATER.PRD USE	1343.180	1345.050
Q WATER PRODUCT.	5038.400	5045.407
AGRICULTURE USE	5.500	5.506
MILLING USE	56.940	56.958
INDUSTRY USE	872.900	875.194
PUB.ADMIN USE	368.840	368.700
SERVICES USE	2950.001	2953.949
CONSUMPTION	784.220	785.107

WATER ACCOUNT		
**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	0.876
AGRICULTURE USE	0.000	1.216
WATER.PRD USE	0.000	0.139
Q WATER PRODUCT.	0.000	0.139
AGRICULTURE USE	0.000	0.110
MILLING USE	0.000	0.031
INDUSTRY USE	0.000	0.263
PUB.ADMIN USE	0.000	-0.038
SERVICES USE	0.000	0.134
CONSUMPTION	0.000	0.113

FOREST ACCOUNT		
	0	1
Q.DOM FORESTRY	17068.368	17093.509
Q.IMP FORESTRY	647.904	648.465
TOTAL Q FORESTRY	17716.273	17741.974
AGRICULTURE USE	551.400	551.754
FORESTRY USE	1995.960	1998.905
MILLING USE	37.700	37.716
INDUSTRY USE	3314.750	3323.457
SERVICES USE	974.870	976.179
HH CONSUMPTION	10901.791	10914.115
NET INVESTMENT	-449.310	-449.379
EXPORTS	389.110	389.232
LAND FORESTRY	835.514	836.744

FOREST ACCOUNT		
**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	0.147
Q.IMP FORESTRY	0.000	0.087
TOTAL Q FORESTRY	0.000	0.145
AGRICULTURE USE	0.000	0.064
FORESTRY USE	0.000	0.148
MILLING USE	0.000	0.042
INDUSTRY USE	0.000	0.263
SERVICES USE	0.000	0.134
HH CONSUMPTION	0.000	0.113
NET INVESTMENT	0.000	0.015
EXPORTS	0.000	0.031
LAND FORESTRY	0.000	0.147

Table A13
 Remove All Water Subsidies
 Change Elasticity of Substitution Land-Natural
 Water for Agriculture to 4.0 (From 2.0)

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.941	678579.257
GOVERNMENT CONSUMPTION	133070.001	128816.750
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	186945.067
TOURISTS	27317.401	27351.086
TOTAL FINAL DEMAND	1258113.097	1254738.060
IMPORTS	264428.029	264230.742
NOMINAL GDP	993685.068	990507.318

FINAL DEMAND	0	1
**** GROWTH %XX	0	1
H-H CONSUMPTION	0.000	0.152
GOVERNMENT CONSUMPTION	0.000	-3.196
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	-0.099
TOURISTS	0.000	0.123
TOTAL FINAL DEMAND	0.000	-0.268
IMPORTS	0.000	-0.075
NOMINAL GDP	0.000	-0.320

REAL GDP	0	1
AGRICUL	137687.886	137752.073
FORESTRY	9997.050	10049.924
MILLING	15273.093	15257.556
INDUSTRY	311253.335	314325.818
NATURAL WATER	3485.850	3235.447
WATER PRODUCT	2656.449	2671.803
PUBLIC ADMIN	43948.227	44079.356
SERVICES	469383.397	471982.675
TOTAL GDP	993685.287	999354.651
NET RENT FOREST	7776.352	7887.021
NET GDP	985908.936	991467.630

REAL GDP	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.047
FORESTRY	0.000	0.529
MILLING	0.000	-0.102
INDUSTRY	0.000	0.987
NATURAL WATER	0.000	-7.183
WATER PRODUCT	0.000	0.578
PUBLIC ADMIN	0.000	0.298
SERVICES	0.000	0.554
TOTAL GDP	0.000	0.571
NET RENT FOREST	0.000	1.423
NET GDP	0.000	0.564

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	224147.226
FORESTRY	17068.369	17158.643
MILLING	121780.414	121656.524
INDUSTRY	854495.761	862930.765
NATURAL WATER	4253.250	3947.721
WATER PRODUCT	5038.400	5067.522
PUBLIC ADMIN	770740.765	775008.853
SUM OUTPUT	1997419.742	2009917.254

SECTORAL OUTPUT	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.047
FORESTRY	0.000	0.529
MILLING	0.000	-0.102
INDUSTRY	0.000	0.987
NATURAL WATER	0.000	-7.183
WATER PRODUCT	0.000	0.578
PUBLIC ADMIN	0.000	0.554
SUM OUTPUT	0.000	0.626

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	101.810
FORESTRY	100.000	99.951
MILLING	100.000	100.666
INDUSTRY	100.000	99.027
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	165.899
PUBLIC ADMIN	100.000	99.702
SERVICES	100.000	99.244
TOTAL DOM.OUTPUT	100.000	99.699

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	1.810
FORESTRY	0.000	-0.049
MILLING	0.000	0.666
INDUSTRY	0.000	-0.973
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	65.899
PUBLIC ADMIN	0.000	-0.297
SERVICES	0.000	-0.756
TOTAL DOM.OUTPUT	0.000	-0.301

PRICE CONSUMPTION	0	1
AGRICUL	100.000	101.703
FORESTRY	100.000	99.953
MILLING	100.000	100.662
INDUSTRY	100.000	99.325
WATER PRODUCT	100.000	165.899
SERVICES	100.000	99.267
ALL CONSUMPTION	100.000	99.755

PRICE CONSUMPTION	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	1.703
FORESTRY	0.000	-0.047
MILLING	0.000	0.662
INDUSTRY	0.000	-0.675
WATER PRODUCT	0.000	65.899
SERVICES	0.000	-0.733
ALL CONSUMPTION	0.000	-0.245

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %%%	0	1
MERC. EXPORT	158770.314	158541.457	AGRICULTURE SURPLUS	0.000	3.865
TOURISM INCOME	27317.401	27351.086	AGRICULTURE LAND	0.000	-2.807
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	3.022
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.529
OTH. SERV. RECEIPT	28360.540	28403.610	NATURAL WATER LAND	0.000	-10.372
TOT.EXPORT GD.SRV.	246261.655	246109.553	NON-AGRIC SURPLUS	0.000	-0.293
MERC. IMPORT	212386.643	212216.896	NON-AGRIC WAGE	0.000	0.189
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22370.530	EMP.SHARE AGRICUL %	0.000	-1.028
TOT.IMPORT GD.SRV.	270199.673	270017.326	EMP.SHARE FOREST %	0.000	-0.878
TRADE BALANCE	53616.329	53675.439	EMP.SHARE INDUSTRY %	0.000	3.230
AS % OF GDP	5.396	5.419	EMP.SHARE SERVICES %	0.000	2.705
SERV. BALANCE	29678.311	29767.666	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	3.005	CAP.SHARE AGRICUL %	0.000	3.933
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	4.087
CURR. BALANCE	19809.918	19779.674	CAP.SHARE INDUSTRY %	0.000	0.105
AS % OF GDP	1.994	1.997	CAP.SHARE SERVICES %	0.000	-0.418
EXTERNAL BALANCE			FACTOR PRICES		
**** GROWTH %%%	0	1		0	1
MERC. EXPORT	0.000	-0.144	AGRICULTURE SURPLUS	100.000	99.933
TOURISM INCOME	0.000	0.123	AGRICULTURE LAND	100.000	97.192
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	104.090
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.152	NATURAL WATER LAND	100.000	89.628
TOT.EXPORT GD.SRV.	0.000	-0.062	NON-AGRIC SURPLUS	100.000	99.933
MERC. IMPORT	0.000	-0.080	NON-AGRIC WAGE	100.000	97.394
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	-0.056	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.067	**** GROWTH %%%	0	1
TRADE BALANCE	0.000	0.110	AGRICULTURE SURPLUS	0.000	-0.067
AS % OF GDP	0.000	0.431	AGRICULTURE LAND	0.000	-2.807
SERV. BALANCE	0.000	0.301	AGRICULTURE WAGE	0.000	4.090
AS % OF GDP	0.000	0.623	FORESTRY LAND	0.000	0.000
NET TRANSFER	0.000	0.000	NATURAL WATER LAND	0.000	-10.372
CURR. BALANCE	0.000	-0.153	NON-AGRIC SURPLUS	0.000	-0.067
AS % OF GDP	0.000	0.168	NON-AGRIC WAGE	0.000	-2.606
FACTOR USE & INCOME			GOVERNMENT WAGE	0.000	0.000
	0	1	GOVERNMENT ACCOUNT		
AGRICULTURE SURPLUS	27701.610	28772.330		0	1
AGRICULTURE LAND	37787.523	36726.643	INDIRECT TAX	86832.389	80647.168
AGRICULTURE WAGE	68615.720	70689.280	EXPORT&IMPORT TAX	31554.067	31536.969
FORESTRY LAND	835.514	839.933	DIRECT TAX	36365.050	36390.740
NATURAL WATER LAND	377.870	338.677	OTHER REVENUES	10949.350	10833.390
NON-AGRIC SURPLUS	483366.229	481950.672	TOTAL INCOME	165700.856	159408.267
NON-AGRIC WAGE	203820.948	204206.381	PUBLIC ADMINISTR	128816.750	128816.750
GOVERNMENT WAGE	42740.120	42740.120	SUBSIDY NAT.WATER	4253.251	0.000
EMP.SHARE AGRICUL %	68.901	68.193	SUBSIDY WATER.PRD	2039.340	0.000
EMP.SHARE FOREST %	0.917	0.909	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE INDUSTRY %	7.841	8.094	TOTAL EXPENDITURES	161631.941	155339.350
EMP.SHARE SERVICES %	17.114	17.577	GOVERNMENT SAVINGS	4068.915	4068.917
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE AGRICUL %	5.349	5.560	GOV. NET SAVINGS	-33740.085	-33740.083
CAP.SHARE FOREST %	0.071	0.074	NET RENT FOREST	7776.345	7817.474
CAP.SHARE INDUSTRY %	34.777	34.813	TAX FOREST SECTOR	76.200	70.850
CAP.SHARE SERVICES %	59.803	59.553			

GOVERNMENT ACCOUNT		
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	-7.123
EXPORT&IMPORT TAX	0.000	-0.054
DIRECT TAX	0.000	0.071
OTHER REVENUES	0.000	-1.059
TOTAL INCOME	0.000	-3.798
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-100.000
SUBSIDY WATER.PRD	0.000	-100.000
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-3.893
GOVERNMENT SAVINGS	0.000	0.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	0.529
TAX FOREST SECTOR	0.000	-7.021

INDIRECT TAX RATES	0	1
IN.TX RATE AGRICUL	0.815	0.754
IN.TX RATE FORESTRY	0.448	0.415
IN.TX RATE MILLING	2.608	2.412
IN.TX RATE INDUSTRY	7.271	6.724
IN.TX RATE NAT.WATER	-100.000	0.000
IN.TX RATE WATER.PRD	-28.813	0.000
IN.TX RATE SERVICES	3.205	2.964

INDIRECT TAX RATES	0	1
**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-7.510
IN.TX RATE FORESTRY	0.000	-7.496
IN.TX RATE MILLING	0.000	-7.511
IN.TX RATE INDUSTRY	0.000	-7.511
IN.TX RATE NAT.WATER	0.000	-100.000
IN.TX RATE WATER.PRD	0.000	-100.000
IN.TX RATE SERVICES	0.000	-7.511

WATER ACCOUNT	0	1
Q NATURAL WATER	4253.250	3947.721
AGRICULTURE USE	2910.070	2596.770
WATER.PRD USE	1343.180	1350.950
Q WATER PRODUCT.	5038.400	5067.522
AGRICULTURE USE	5.500	5.503
MILLING USE	56.940	56.884
INDUSTRY USE	872.900	881.515
PUB.ADMIN USE	368.840	369.943
SERVICES USE	2950.001	2966.337
CONSUMPTION	784.220	787.343

WATER ACCOUNT	0	1
**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	-7.183
AGRICULTURE USE	0.000	-10.766
WATER.PRD USE	0.000	0.578
Q WATER PRODUCT.	0.000	0.578
AGRICULTURE USE	0.000	0.061
MILLING USE	0.000	-0.098
INDUSTRY USE	0.000	0.987
PUB.ADMIN USE	0.000	0.299
SERVICES USE	0.000	0.554
CONSUMPTION	0.000	0.398

FOREST ACCOUNT	0	1
Q.DOM FORESTRY	17068.369	17158.643
Q.IMP FORESTRY	647.904	650.126
TOTAL Q FORESTRY	17716.273	17808.769
AGRICULTURE USE	551.400	551.659
FORESTRY USE	1995.960	2006.522
MILLING USE	37.700	37.658
INDUSTRY USE	3314.750	3347.472
SERVICES USE	974.870	980.270
HH CONSUMPTION	10901.791	10945.220
NET INVESTMENT	-449.310	-449.521
EXPORTS	389.110	389.490
LAND FORESTRY	835.514	839.933

FOREST ACCOUNT	0	1
**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	0.529
Q.IMP FORESTRY	0.000	0.343
TOTAL Q FORESTRY	0.000	0.522
AGRICULTURE USE	0.000	0.047
FORESTRY USE	0.000	0.529
MILLING USE	0.000	-0.112
INDUSTRY USE	0.000	0.987
SERVICES USE	0.000	0.554
HH CONSUMPTION	0.000	0.398
NET INVESTMENT	0.000	0.047
EXPORTS	0.000	0.098
LAND FORESTRY	0.000	0.529

Table A14
Remove All Water Subsidies
Change Elasticity of Substitution Land-Natural
Water for Agriculture to 1.2 (From 2.0)

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.938	678292.313
GOVERNMENT CONSUMPTION	133070.001	128816.750
NET INVESTMENT	233045.900	233045.900
PRIVATE	153646.900	153646.900
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187036.042
TOURISTS	27317.401	27341.615
TOTAL FINAL DEMAND	1258113.094	1254532.620
IMPORTS	264428.029	264168.637
NOMINAL GDP	993685.066	990363.983

FINAL DEMAND	0	1
**** GROWTH %		
H-H CONSUMPTION	0.000	0.110
GOVERNMENT CONSUMPTION	0.000	-3.196
NET INVESTMENT	0.000	0.000
PRIVATE	0.000	0.000
PUBLIC	0.000	0.000
EXPORTS	0.000	-0.051
TOURISTS	0.000	0.089
TOTAL FINAL DEMAND	0.000	-0.285
IMPORTS	0.000	-0.098
NOMINAL GDP	0.000	-0.334

REAL GDP	0	1
AGRICUL	137687.883	137771.590
FORESTRY	9997.050	10036.820
MILLING	15273.094	15265.884
INDUSTRY	311253.334	313770.161
NATURAL WATER	3485.851	3365.238
WATER PRODUCT	2656.449	2667.958
PUBLIC ADMIN	43948.226	44010.206
SERVICES	469383.394	471310.332
TOTAL GDP	993685.279	998198.189
NET RENT FOREST	7776.352	7868.880
NET GDP	985908.928	990329.309

REAL GDP	0	1
**** GROWTH %		
AGRICUL	0.000	0.061
FORESTRY	0.000	0.398
MILLING	0.000	-0.047
INDUSTRY	0.000	0.809
NATURAL WATER	0.000	-3.460
WATER PRODUCT	0.000	0.433
PUBLIC ADMIN	0.000	0.141
SERVICES	0.000	0.411
TOTAL GDP	0.000	0.454
NET RENT FOREST	0.000	1.190
NET GDP	0.000	0.448

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	224178.990
FORESTRY	17068.368	17136.270
MILLING	121780.415	121722.928
INDUSTRY	854495.750	861405.293
NATURAL WATER	4253.251	4106.085
WATER PRODUCT	5038.400	5060.230
PUBLIC ADMIN	770740.757	773904.843
SUM OUTPUT	1997419.724	2007514.639

SECTORAL OUTPUT	0	1
**** GROWTH %		
AGRICUL	0.000	0.061
FORESTRY	0.000	0.398
MILLING	0.000	-0.047
INDUSTRY	0.000	0.809
NATURAL WATER	0.000	-3.460
WATER PRODUCT	0.000	0.433
PUBLIC ADMIN	0.000	0.411
SUM OUTPUT	0.000	0.505

DOM. OUTPUT PRICE	0	1
AGRICUL	100.000	101.310
FORESTRY	100.000	99.953
MILLING	100.000	100.451
INDUSTRY	100.000	99.173
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	166.309
PUBLIC ADMIN	100.000	99.859
SERVICES	100.000	99.512
TOTAL DOM. OUTPUT	100.000	99.801

DOM. OUTPUT PRICE	0	1
**** GROWTH %		
AGRICUL	0.000	1.310
FORESTRY	0.000	-0.047
MILLING	0.000	0.451
INDUSTRY	0.000	-0.827
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	66.309
PUBLIC ADMIN	0.000	-0.141
SERVICES	0.000	-0.488
TOTAL DOM. OUTPUT	0.000	-0.199

PRICE CONSUMPTION	0	1
AGRICUL	100.000	101.233
FORESTRY	100.000	99.955
MILLING	100.000	100.449
INDUSTRY	100.000	99.427
WATER PRODUCT	100.000	166.309
SERVICES	100.000	99.527
ALL CONSUMPTION	100.000	99.834

PRICE CONSUMPTION	0	1
**** GROWTH %		
AGRICUL	0.000	1.233
FORESTRY	0.000	-0.045
MILLING	0.000	0.449
INDUSTRY	0.000	-0.573
WATER PRODUCT	0.000	66.309
SERVICES	0.000	-0.473
ALL CONSUMPTION	0.000	-0.166

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %%%	0	1
MERC. EXPORT	158770.314	158647.732	AGRICULTURE SURPLUS	0.000	2.906
TOURISM INCOME	27317.401	27341.615	AGRICULTURE LAND	0.000	-4.401
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	2.296
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	0.398
OTH. SERV. RECEIPT	28360.540	28388.310	NATURAL WATER LAND	0.000	-4.959
TOT.EXPORT GD.SRV.	246261.655	246191.056	NON-AGRIC SURPLUS	0.000	-0.077
MERC. IMPORT	212386.642	212149.382	NON-AGRIC WAGE	0.000	0.289
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22387.450	EMP.SHARE AGRICUL %	0.000	-0.787
TOT.IMPORT GD.SRV.	270199.672	269966.732	EMP.SHARE FOREST %	0.000	-0.629
TRADE BALANCE	53616.328	53501.651	EMP.SHARE INDUSTRY %	0.000	2.515
AS % OF GDP	5.396	5.402	EMP.SHARE SERVICES %	0.000	2.051
SERV. BALANCE	29678.311	29725.975	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	3.002	CAP.SHARE AGRICUL %	0.000	2.817
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	2.979
CURR. BALANCE	19809.917	19647.576	CAP.SHARE INDUSTRY %	0.000	0.132
AS % OF GDP	1.994	1.984	CAP.SHARE SERVICES %	0.000	-0.332
EXTERNAL BALANCE			FACTOR PRICES		
**** GROWTH %%%			**** GROWTH %%%		
	0	1		0	1
MERC. EXPORT	0.000	-0.077	AGRICULTURE SURPLUS	100.000	100.085
TOURISM INCOME	0.000	0.089	AGRICULTURE LAND	100.000	95.599
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	103.106
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.098	NATURAL WATER LAND	100.000	95.041
TOT.EXPORT GD.SRV.	0.000	-0.029	NON-AGRIC SURPLUS	100.000	100.085
MERC. IMPORT	0.000	-0.112	NON-AGRIC WAGE	100.000	98.133
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	0.019	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.086	**** GROWTH %%%		
TRADE BALANCE	0.000	-0.214		0	1
AS % OF GDP	0.000	0.121	AGRICULTURE SURPLUS	0.000	0.085
SERV. BALANCE	0.000	0.161	AGRICULTURE LAND	0.000	-4.401
AS % OF GDP	0.000	0.496	AGRICULTURE WAGE	0.000	3.106
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	-0.819	NATURAL WATER LAND	0.000	-4.959
AS % OF GDP	0.000	-0.487	NON-AGRIC SURPLUS	0.000	0.085
FACTOR USE & INCOME			NON-AGRIC WAGE	0.000	-1.867
	0	1	GOVERNMENT WAGE	0.000	0.000
AGRICULTURE SURPLUS	27701.610	28506.700	GOVERNMENT ACCOUNT		
AGRICULTURE LAND	37787.519	36124.669		0	1
AGRICULTURE WAGE	68615.710	70191.210	INDIRECT TAX	86832.389	80583.844
FORESTRY LAND	835.514	838.838	EXPORT&IMPORT TAX	31554.067	31527.214
NATURAL WATER LAND	377.870	359.131	DIRECT TAX	36365.050	36398.870
NON-AGRIC SURPLUS	483366.233	482994.517	OTHER REVENUES	10949.350	10898.340
NON-AGRIC WAGE	203820.949	204409.655	TOTAL INCOME	165700.856	159408.267
GOVERNMENT WAGE	42740.120	42740.120	PUBLIC ADMINISTR	128816.750	128816.750
EMP.SHARE AGRICUL %	68.901	68.359	SUBSIDY NAT.WATER	4253.251	0.000
EMP.SHARE FOREST %	0.917	0.912	SUBSIDY WATER.PRD	2039.340	0.000
EMP.SHARE INDUSTRY %	7.841	8.038	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE SERVICES %	17.114	17.465	TOTAL EXPENDITURES	161631.941	155339.350
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT SAVINGS	4068.915	4068.917
CAP.SHARE AGRICUL %	5.349	5.500	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE FOREST %	0.071	0.073	GOV. NET SAVINGS	-33740.085	-33740.083
CAP.SHARE INDUSTRY %	34.777	34.823	NET RENT FOREST	7776.345	7807.281
CAP.SHARE SERVICES %	59.803	59.604	TAX FOREST SECTOR	76.200	70.700

GOVERNMENT ACCOUNT			FOREST ACCOUNT		
**** GROWTH %XX	0	1		0	1
INDIRECT TAX	0.000	-7.196	Q.DOM FORESTRY	17068.368	17136.270
EXPORT&IMPORT TAX	0.000	-0.085	Q.IMP FORESTRY	647.904	649.317
DIRECT TAX	0.000	0.093	TOTAL Q FORESTRY	17716.273	17785.587
OTHER REVENUES	0.000	-0.466	AGRICULTURE USE	551.400	551.737
TOTAL INCOME	0.000	-3.798	FORESTRY USE	1995.960	2003.898
PUBLIC ADMINISTR	0.000	0.000	MILLING USE	37.700	37.687
SUBSIDY NAT.WATER	0.000	-100.000	INDUSTRY USE	3314.750	3341.548
SUBSIDY WATER.PRD	0.000	-100.000	SERVICES USE	974.870	978.869
OTHER EXPENDITURES	0.000	0.000	HH CONSUMPTION	10901.791	10931.880
TOTAL EXPENDITURES	0.000	-3.893	NET INVESTMENT	-449.310	-449.511
GOVERNMENT SAVINGS	0.000	0.000	EXPORTS	389.110	389.471
GOVERNMENT INVESTM	0.000	0.000	LAND FORESTRY	835.514	838.838
GOV. NET SAVINGS	0.000	0.000			
NET RENT FOREST	0.000	0.398	FOREST ACCOUNT		
TAX FOREST SECTOR	0.000	-7.218	**** GROWTH %XX	0	1
			Q.DOM FORESTRY	0.000	0.398
INDIRECT TAX RATES	0	1	Q.IMP FORESTRY	0.000	0.218
			TOTAL Q FORESTRY	0.000	0.391
IN.TX RATE AGRICUL	0.815	0.753	AGRICULTURE USE	0.000	0.061
IN.TX RATE FORESTRY	0.448	0.414	FORESTRY USE	0.000	0.398
IN.TX RATE MILLING	2.608	2.410	MILLING USE	0.000	-0.035
IN.TX RATE INDUSTRY	7.271	6.719	INDUSTRY USE	0.000	0.808
IN.TX RATE NAT.WATER	-100.000	0.000	SERVICES USE	0.000	0.410
IN.TX RATE WATER.PRD	-28.813	0.000	HH CONSUMPTION	0.000	0.276
IN.TX RATE SERVICES	3.205	2.962	NET INVESTMENT	0.000	0.045
			EXPORTS	0.000	0.093
INDIRECT TAX RATES			LAND FORESTRY	0.000	0.398
**** GROWTH %XX	0	1			
IN.TX RATE AGRICUL	0.000	-7.586			
IN.TX RATE FORESTRY	0.000	-7.574			
IN.TX RATE MILLING	0.000	-7.586			
IN.TX RATE INDUSTRY	0.000	-7.586			
IN.TX RATE NAT.WATER	0.000	-100.000			
IN.TX RATE WATER.PRD	0.000	-100.000			
IN.TX RATE SERVICES	0.000	-7.586			
WATER ACCOUNT	0	1			
Q NATURAL WATER	4253.251	4106.085			
AGRICULTURE USE	2910.070	2757.080			
WATER.PRD USE	1343.180	1349.000			
Q WATER PRODUCT.	5038.400	5060.230			
AGRICULTURE USE	5.500	5.502			
MILLING USE	56.940	56.912			
INDUSTRY USE	872.900	879.959			
PUB.ADMIN USE	368.840	369.361			
SERVICES USE	2950.001	2962.109			
CONSUMPTION	784.220	786.386			
WATER ACCOUNT					
**** GROWTH %XX	0	1			
Q NATURAL WATER	0.000	-3.460			
AGRICULTURE USE	0.000	-5.257			
WATER.PRD USE	0.000	0.433			
Q WATER PRODUCT.	0.000	0.433			
AGRICULTURE USE	0.000	0.033			
MILLING USE	0.000	-0.049			
INDUSTRY USE	0.000	0.809			
PUB.ADMIN USE	0.000	0.141			
SERVICES USE	0.000	0.410			
CONSUMPTION	0.000	0.276			

Table A15
Tax on Forest Benefits

			SECTORAL OUTPUT	
			**** GROWTH %XX	
			0	1
FINAL DEMAND				
	0	1		
H-H CONSUMPTION	677548.939	675248.205		
GOVERNMENT CONSUMPTION	133070.001	133026.034		
NET INVESTMENT	233045.900	232838.319		
PRIVATE	153646.900	153439.319		
PUBLIC	79399.000	79399.000		
EXPORTS	187130.854	187465.950		
TOURISTS	27317.401	27326.981		
TOTAL FINAL DEMAND	1258113.095	1255905.489		
IMPORTS	264428.029	264809.921		
NOMINAL GDP	993685.066	991095.567		
FINAL DEMAND				
**** GROWTH %XX	0	1		
H-H CONSUMPTION	0.000	-0.340		
GOVERNMENT CONSUMPTION	0.000	-0.033		
NET INVESTMENT	0.000	-0.089		
PRIVATE	0.000	-0.135		
PUBLIC	0.000	0.000		
EXPORTS	0.000	0.179		
TOURISTS	0.000	0.035		
TOTAL FINAL DEMAND	0.000	-0.175		
IMPORTS	0.000	0.144		
NOMINAL GDP	0.000	-0.261		
REAL GDP				
	0	1		
AGRICUL	137687.884	137547.681		
FORESTRY	9997.050	8629.351		
MILLING	15273.094	15284.906		
INDUSTRY	311253.334	311267.916		
NATURAL WATER	3485.851	3425.555		
WATER PRODUCT	2656.449	2647.478		
PUBLIC ADMIN	43948.226	43979.345		
SERVICES	469383.395	467629.446		
TOTAL GDP	993685.283	990411.679		
NET RENT FOREST	7776.352	6700.609		
NET GDP	985908.931	983711.069		
REAL GDP				
**** GROWTH %XX	0	1		
AGRICUL	0.000	-0.102		
FORESTRY	0.000	-13.681		
MILLING	0.000	0.077		
INDUSTRY	0.000	0.005		
NATURAL WATER	0.000	-1.730		
WATER PRODUCT	0.000	-0.338		
PUBLIC ADMIN	0.000	0.071		
SERVICES	0.000	-0.374		
TOTAL GDP	0.000	-0.329		
NET RENT FOREST	0.000	-13.834		
NET GDP	0.000	-0.223		
SECTORAL OUTPUT				
	0	1		
AGRICUL	224042.783	223814.648		
FORESTRY	17068.368	14733.241		
MILLING	121780.414	121874.603		
INDUSTRY	854495.754	854535.785		
NATURAL WATER	4253.250	4179.681		
WATER PRODUCT	5038.400	5021.386		
PUBLIC ADMIN	770740.760	767860.727		
SUM OUTPUT	1997419.731	1992020.071		
AGRICUL	0.000	-0.102		
FORESTRY	0.000	-13.681		
MILLING	0.000	0.077		
INDUSTRY	0.000	0.005		
NATURAL WATER	0.000	-1.730		
WATER PRODUCT	0.000	-0.338		
PUBLIC ADMIN	0.000	0.071		
SERVICES	0.000	-0.374		
TOTAL GDP	0.000	-0.329		
NET RENT FOREST	0.000	-13.834		
NET GDP	0.000	-0.223		
SECTORAL OUTPUT				
	0	1		
AGRICUL	100.000	99.229		
FORESTRY	100.000	150.341		
MILLING	100.000	99.340		
INDUSTRY	100.000	99.554		
NATURAL WATER	100.000	100.000		
WATER PRODUCT	100.000	100.173		
PUBLIC ADMIN	100.000	99.929		
SERVICES	100.000	99.940		
TOTAL DOM.OUTPUT	100.000	100.025		
DOM.OUTPUT PRICE				
**** GROWTH %XX	0	1		
AGRICUL	0.000	-0.771		
FORESTRY	0.000	50.341		
MILLING	0.000	-0.660		
INDUSTRY	0.000	-0.446		
NATURAL WATER	0.000	0.000		
WATER PRODUCT	0.000	0.173		
PUBLIC ADMIN	0.000	-0.071		
SERVICES	0.000	-0.060		
TOTAL DOM.OUTPUT	0.000	0.025		
PRICE CONSUMPTION				
	0	1		
AGRICUL	100.000	99.274		
FORESTRY	100.000	146.098		
MILLING	100.000	99.344		
INDUSTRY	100.000	99.691		
NATURAL WATER	100.000	100.173		
WATER PRODUCT	100.000	99.942		
SERVICES	100.000	99.942		
ALL CONSUMPTION	100.000	100.472		
PRICE CONSUMPTION				
**** GROWTH %XX	0	1		
AGRICUL	0.000	-0.726		
FORESTRY	0.000	46.098		
MILLING	0.000	-0.656		
INDUSTRY	0.000	-0.309		
NATURAL WATER	0.000	0.173		
WATER PRODUCT	0.000	-0.058		
SERVICES	0.000	-0.058		
ALL CONSUMPTION	0.000	0.472		

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %XX	0	1
MERC. EXPORT	158770.314	159102.020	AGRICULTURE SURPLUS	0.000	-1.774
TOURISM INCOME	27317.401	27326.981	AGRICULTURE LAND	0.000	-1.193
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	-1.414
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	-13.681
OTH. SERV. RECEIPT	28360.540	28363.930	NATURAL WATER LAND	0.000	-2.502
TOT.EXPORT GD.SRV.	246261.655	246606.331	NON-AGRIC SURPLUS	0.000	0.131
MERC. IMPORT	212386.643	212929.085	NON-AGRIC WAGE	0.000	-0.078
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22269.910	EMP.SHARE AGRICUL %	0.000	0.557
TOT.IMPORT GD.SRV.	270199.673	270628.895	EMP.SHARE FOREST %	0.000	-13.135
TRADE BALANCE	53616.328	53827.066	EMP.SHARE INDUSTRY %	0.000	-0.839
AS % OF GDP	5.396	5.431	EMP.SHARE SERVICES %	0.000	-1.155
SERV. BALANCE	29678.311	29804.501	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	3.007	CAP.SHARE AGRICUL %	0.000	-1.625
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	-15.020
CURR. BALANCE	19809.917	19894.465	CAP.SHARE INDUSTRY %	0.000	0.306
AS % OF GDP	1.994	2.007	CAP.SHARE SERVICES %	0.000	-0.015
EXTERNAL BALANCE			FACTOR PRICES		
**** GROWTH %XX			**** GROWTH %XX		
	0	1		0	1
MERC. EXPORT	0.000	0.209	AGRICULTURE SURPLUS	100.000	100.028
TOURISM INCOME	0.000	0.035	AGRICULTURE LAND	100.000	98.807
REMITTANCES	0.000	0.000	AGRICULTURE WAGE	100.000	98.216
INTERESTS RECEIPT	0.000	0.000	FORESTRY LAND	100.000	100.000
OTH. SERV. RECEIPT	0.000	0.012	NATURAL WATER LAND	100.000	97.498
TOT.EXPORT GD.SRV.	0.000	0.140	NON-AGRIC SURPLUS	100.000	100.028
MERC. IMPORT	0.000	0.255	NON-AGRIC WAGE	100.000	100.988
INTERESTS PAYM.	0.000	0.000	GOVERNMENT WAGE	100.000	100.000
OTH. SERV. PAYM.	0.000	-0.506	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	0.159	**** GROWTH %XX		
TRADE BALANCE	0.000	0.393		0	1
AS % OF GDP	0.000	0.655	AGRICULTURE SURPLUS	0.000	0.028
SERV. BALANCE	0.000	0.425	AGRICULTURE LAND	0.000	-1.193
AS % OF GDP	0.000	0.688	AGRICULTURE WAGE	0.000	-1.784
NET TRANSFER	0.000	0.000	FORESTRY LAND	0.000	0.000
CURR. BALANCE	0.000	0.427	NATURAL WATER LAND	0.000	-2.502
AS % OF GDP	0.000	0.689	NON-AGRIC SURPLUS	0.000	0.028
FACTOR USE & INCOME			NON-AGRIC WAGE		
	0	1	GOVERNMENT WAGE		
				0.000	0.000
AGRICULTURE SURPLUS	27701.610	27210.270	GOVERNMENT ACCOUNT		
AGRICULTURE LAND	37787.521	37336.626		0	1
AGRICULTURE WAGE	68615.720	67645.580	INDIRECT TAX	86832.389	86919.198
FORESTRY LAND	835.514	721.207	EXPORT&IMPORT TAX	31554.067	31517.589
NATURAL WATER LAND	377.870	368.414	DIRECT TAX	36365.050	36293.590
NON-AGRIC SURPLUS	483366.231	483999.104	OTHER REVENUES	10949.350	10923.140
NON-AGRIC WAGE	203820.949	203662.628	TOTAL INCOME	165700.856	165653.517
GOVERNMENT WAGE	42740.120	42740.120	PUBLIC ADMINISTR	128816.750	128816.750
EMP.SHARE AGRICUL %	68.901	69.285	SUBSIDY NAT.WATER	4253.251	4209.284
EMP.SHARE FOREST %	0.917	0.797	SUBSIDY WATER.PROD	2039.340	2035.970
EMP.SHARE INDUSTRY %	7.841	7.775	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE SERVICES %	17.114	16.916	TOTAL EXPENDITURES	161631.941	161584.604
EMP.SHARE GOV.EMPL %	5.227	5.227	GOVERNMENT SAVINGS	4068.915	4068.913
CAP.SHARE AGRICUL %	5.349	5.262	GOVERNMENT INVESTM	37809.000	37809.000
CAP.SHARE FOREST %	0.071	0.061	GOV. NET SAVINGS	-33740.085	-33740.087
CAP.SHARE INDUSTRY %	34.777	34.883	NET RENT FOREST	7776.345	6712.462
CAP.SHARE SERVICES %	59.803	59.794	TAX FOREST SECTOR	76.200	6712.640

GOVERNMENT ACCOUNT	0	1
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	0.100
EXPORT&IMPORT TAX	0.000	-0.116
DIRECT TAX	0.000	-0.197
OTHER REVENUES	0.000	-0.239
TOTAL INCOME	0.000	-0.029
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-1.034
SUBSIDY WATER.PRD	0.000	-0.165
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-0.029
GOVERNMENT SAVINGS	0.000	0.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	-13.681
TAX FOREST SECTOR	0.000	8709.239

INDIRECT TAX RATES	0	1
IN.TX RATE AGRICUL	0.815	0.754
IN.TX RATE FORESTRY	0.448	43.483
IN.TX RATE MILLING	2.608	2.412
IN.TX RATE INDUSTRY	7.271	6.724
IN.TX RATE NAT.WATER	-100.000	-100.708
IN.TX RATE WATER.PRD	-28.813	-28.813
IN.TX RATE SERVICES	3.205	2.964

INDIRECT TAX RATES	0	1
**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-7.512
IN.TX RATE FORESTRY	0.000	9596.444
IN.TX RATE MILLING	0.000	-7.512
IN.TX RATE INDUSTRY	0.000	-7.512
IN.TX RATE NAT.WATER	0.000	0.708
IN.TX RATE WATER.PRD	0.000	0.000
IN.TX RATE SERVICES	0.000	-7.512

WATER ACCOUNT	0	1
Q NATURAL WATER	4253.250	4179.681
AGRICULTURE USE	2910.070	2841.030
WATER.PRD USE	1343.180	1338.650
Q WATER PRODUCT.	5038.400	5021.386
AGRICULTURE USE	5.500	5.491
MILLING USE	56.940	56.981
INDUSTRY USE	872.900	872.940
PUB.ADMIN USE	368.840	369.101
SERVICES USE	2950.001	2938.975
CONSUMPTION	784.220	777.884

WATER ACCOUNT	0	1
**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	-1.730
AGRICULTURE USE	0.000	-2.372
WATER.PRD USE	0.000	-0.337
Q WATER PRODUCT.	0.000	-0.338
AGRICULTURE USE	0.000	-0.173
MILLING USE	0.000	0.073
INDUSTRY USE	0.000	0.005
PUB.ADMIN USE	0.000	0.071
SERVICES USE	0.000	-0.374
CONSUMPTION	0.000	-0.808

FOREST ACCOUNT	0	1
Q.DOM FORESTRY	17068.368	15161.068
Q.IMP FORESTRY	647.904	1977.831
TOTAL Q FORESTRY	17716.273	17138.899
AGRICULTURE USE	551.400	550.842
FORESTRY USE	1995.960	1722.895
MILLING USE	37.700	37.728
INDUSTRY USE	3314.750	3314.906
SERVICES USE	974.870	971.230
HH CONSUMPTION	10901.791	10813.776
NET INVESTMENT	-449.310	-449.622
EXPORTS	389.110	177.155
LAND FORESTRY	835.514	721.207

FOREST ACCOUNT	0	1
**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	-11.174
Q.IMP FORESTRY	0.000	205.266
TOTAL Q FORESTRY	0.000	-3.259
AGRICULTURE USE	0.000	-0.101
FORESTRY USE	0.000	-13.681
MILLING USE	0.000	0.074
INDUSTRY USE	0.000	0.005
SERVICES USE	0.000	-0.373
HH CONSUMPTION	0.000	-0.807
NET INVESTMENT	0.000	0.069
EXPORTS	0.000	-54.472
LAND FORESTRY	0.000	-13.681

Table A16
Tax forest benefits and remove all water
subsidies

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	676075.217
GOVERNMENT CONSUMPTION	133070.001	128816.750
NET INVESTMENT	233045.900	232838.768
PRIVATE	153646.900	153439.768
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187342.236
TOURISTS	27317.401	27354.817
TOTAL FINAL DEMAND	1258113.095	1252427.788
IMPORTS	264428.029	264584.934
NOMINAL GDP	993685.066	987842.854

FINAL DEMAND	0	1
**** GROWTH %XX	0	1
H-H CONSUMPTION	0.000	-0.218
GOVERNMENT CONSUMPTION	0.000	-3.196
NET INVESTMENT	0.000	-0.089
PRIVATE	0.000	-0.135
PUBLIC	0.000	0.000
EXPORTS	0.000	0.113
TOURISTS	0.000	0.137
TOTAL FINAL DEMAND	0.000	-0.452
IMPORTS	0.000	0.059
NOMINAL GDP	0.000	-0.588

REAL GDP	0	1
AGRICUL	137687.884	137624.737
FORESTRY	9997.050	8668.243
MILLING	15273.094	15275.267
INDUSTRY	311253.334	313999.238
NATURAL WATER	3485.851	3257.099
WATER PRODUCT	2656.449	2660.409
PUBLIC ADMIN	43948.226	44067.089
SERVICES	469383.395	469803.725
TOTAL GDP	993685.283	995355.806
NET RENT FOREST	7776.352	6786.241
NET GDP	985908.931	988569.565

REAL GDP	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.046
FORESTRY	0.000	-13.292
MILLING	0.000	0.014
INDUSTRY	0.000	0.882
NATURAL WATER	0.000	-6.562
WATER PRODUCT	0.000	0.149
PUBLIC ADMIN	0.000	0.270
SERVICES	0.000	0.090
TOTAL GDP	0.000	0.168
NET RENT FOREST	0.000	-12.732
NET GDP	0.000	0.270

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	223940.032
FORESTRY	17068.368	14799.642
MILLING	121780.414	121797.742
INDUSTRY	854495.754	862034.190
NATURAL WATER	4253.250	3974.140
WATER PRODUCT	5038.400	5045.911
PUBLIC ADMIN	770740.760	771430.954
SUM OUTPUT	1997419.731	2003022.611

SECTORAL OUTPUT	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.046
FORESTRY	0.000	-13.292
MILLING	0.000	0.014
INDUSTRY	0.000	0.882
NATURAL WATER	0.000	-6.562
WATER PRODUCT	0.000	0.149
PUBLIC ADMIN	0.000	0.090
SUM OUTPUT	0.000	0.281

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	100.697
FORESTRY	100.000	150.328
MILLING	100.000	99.854
INDUSTRY	100.000	98.675
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	166.352
PUBLIC ADMIN	100.000	99.730
SERVICES	100.000	99.352
TOTAL DOM.OUTPUT	100.000	99.785

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.697
FORESTRY	0.000	50.328
MILLING	0.000	-0.146
INDUSTRY	0.000	-1.325
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	66.352
PUBLIC ADMIN	0.000	-0.270
SERVICES	0.000	-0.648
TOTAL DOM.OUTPUT	0.000	-0.215

PRICE CONSUMPTION	0	1
AGRICUL	100.000	100.656
FORESTRY	100.000	146.087
MILLING	100.000	99.855
INDUSTRY	100.000	99.081
WATER PRODUCT	100.000	166.352
SERVICES	100.000	99.372
ALL CONSUMPTION	100.000	100.273

PRICE CONSUMPTION	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	0.656
FORESTRY	0.000	46.087
MILLING	0.000	-0.145
INDUSTRY	0.000	-0.919
WATER PRODUCT	0.000	66.352
SERVICES	0.000	-0.628
ALL CONSUMPTION	0.000	0.273

EXTERNAL BALANCE	0	1
MERC. EXPORT	158770.314	158944.826
TOURISM INCOME	27317.401	27354.817
REMITTANCES	26602.500	26602.500
INTERESTS RECEIPT	5210.900	5210.900
OTH. SERV. RECEIPT	28360.540	28397.410
TOT.EXPORT GD.SRV.	246261.655	246510.453
MERC. IMPORT	212386.643	212727.277
INTERESTS PAYM.	35429.900	35429.900
OTH. SERV. PAYM.	22383.130	22268.150
TOT.IMPORT GD.SRV.	270199.673	270425.327
TRADE BALANCE	53616.328	53782.452
AS % OF GDP	5.396	5.444
SERV. BALANCE	29678.311	29867.577
AS % OF GDP	2.987	3.024
NET TRANSFER	4128.100	4128.100
CURR. BALANCE	19809.917	19786.774
AS % OF GDP	1.994	2.003

EXTERNAL BALANCE **** GROWTH %XX	0	1
MERC. EXPORT	0.000	0.110
TOURISM INCOME	0.000	0.137
REMITTANCES	0.000	0.000
INTERESTS RECEIPT	0.000	0.000
OTH. SERV. RECEIPT	0.000	0.130
TOT.EXPORT GD.SRV.	0.000	0.101
MERC. IMPORT	0.000	0.160
INTERESTS PAYM.	0.000	0.000
OTH. SERV. PAYM.	0.000	-0.514
TOT.IMPORT GD.SRV.	0.000	0.084
TRADE BALANCE	0.000	0.310
AS % OF GDP	0.000	0.903
SERV. BALANCE	0.000	0.638
AS % OF GDP	0.000	1.233
NET TRANSFER	0.000	0.000
CURR. BALANCE	0.000	-0.117
AS % OF GDP	0.000	0.474

FACTOR USE & INCOME	0	1
AGRICULTURE SURPLUS	27701.610	28094.210
AGRICULTURE LAND	37787.521	35916.035
AGRICULTURE WAGE	68615.720	69374.720
FORESTRY LAND	835.514	724.457
NATURAL WATER LAND	377.870	342.271
NON-AGRIC SURPLUS	483366.231	483245.775
NON-AGRIC WAGE	203820.949	204177.178
GOVERNMENT WAGE	42740.120	42740.120
EMP.SHARE AGRICUL %	68.901	68.686
EMP.SHARE FOREST %	0.917	0.791
EMP.SHARE INDUSTRY %	7.841	7.991
EMP.SHARE SERVICES %	17.114	17.304
EMP.SHARE GOV.EMPL %	5.227	5.227
CAP.SHARE AGRICUL %	5.349	5.432
CAP.SHARE FOREST %	0.071	0.063
CAP.SHARE INDUSTRY %	34.777	34.927
CAP.SHARE SERVICES %	59.803	59.579

FACTOR USE & INCOME **** GROWTH %XX	0	1
AGRICULTURE SURPLUS	0.000	1.417
AGRICULTURE LAND	0.000	-4.953
AGRICULTURE WAGE	0.000	1.106
FORESTRY LAND	0.000	-13.292
NATURAL WATER LAND	0.000	-9.421
NON-AGRIC SURPLUS	0.000	-0.025
NON-AGRIC WAGE	0.000	0.175
GOVERNMENT WAGE	0.000	0.000
EMP.SHARE AGRICUL %	0.000	-0.311
EMP.SHARE FOREST %	0.000	-13.751
EMP.SHARE INDUSTRY %	0.000	1.919
EMP.SHARE SERVICES %	0.000	1.112
EMP.SHARE GOV.EMPL %	0.000	0.000
CAP.SHARE AGRICUL %	0.000	1.543
CAP.SHARE FOREST %	0.000	-12.148
CAP.SHARE INDUSTRY %	0.000	0.433
CAP.SHARE SERVICES %	0.000	-0.375

FACTOR PRICES **** GROWTH %XX	0	1
AGRICULTURE SURPLUS	100.000	100.053
AGRICULTURE LAND	100.000	95.047
AGRICULTURE WAGE	100.000	101.602
FORESTRY LAND	100.000	100.000
NATURAL WATER LAND	100.000	90.579
NON-AGRIC SURPLUS	100.000	100.053
NON-AGRIC WAGE	100.000	98.825
GOVERNMENT WAGE	100.000	100.000

FACTOR PRICES **** GROWTH %XX	0	1
AGRICULTURE SURPLUS	0.000	0.053
AGRICULTURE LAND	0.000	-4.953
AGRICULTURE WAGE	0.000	1.602
FORESTRY LAND	0.000	0.000
NATURAL WATER LAND	0.000	-9.421
NON-AGRIC SURPLUS	0.000	0.053
NON-AGRIC WAGE	0.000	-1.175
GOVERNMENT WAGE	0.000	0.000

GOVERNMENT ACCOUNT	0	1
INDIRECT TAX	86832.389	80741.479
EXPORT&IMPORT TAX	31554.067	31495.284
DIRECT TAX	36365.050	36323.340
OTHER REVENUES	10949.350	10848.160
TOTAL INCOME	165700.856	159408.262
PUBLIC ADMINISTR	128816.750	128816.750
SUBSIDY NAT.WATER	4253.251	0.000
SUBSIDY WATER.PRD	2039.340	0.000
OTHER EXPENDITURES	26522.600	26522.600
TOTAL EXPENDITURES	161631.941	155339.350
GOVERNMENT SAVINGS	4068.915	4068.912
GOVERNMENT INVESTM	37809.000	37809.000
GOV. NET SAVINGS	-33740.085	-33740.088
NET RENT FOREST	7776.345	6742.714
TAX FOREST SECTOR	76.200	6742.880

GOVERNMENT ACCOUNT		
**** GROWTH %XX	0	1
INDIRECT TAX	0.000	-7.015
EXPORT&IMPORT TAX	0.000	-0.186
DIRECT TAX	0.000	-0.115
OTHER REVENUES	0.000	-0.924
TOTAL INCOME	0.000	-3.798
PUBLIC ADMINISTR	0.000	0.000
SUBSIDY NAT.WATER	0.000	-100.000
SUBSIDY WATER.PRD	0.000	-100.000
OTHER EXPENDITURES	0.000	0.000
TOTAL EXPENDITURES	0.000	-3.893
GOVERNMENT SAVINGS	0.000	0.000
GOVERNMENT INVESTM	0.000	0.000
GOV. NET SAVINGS	0.000	0.000
NET RENT FOREST	0.000	-13.292
TAX FOREST SECTOR	0.000	8748.924

INDIRECT TAX RATES		
	0	1
IN.TX RATE AGRICUL	0.815	0.692
IN.TX RATE FORESTRY	0.448	43.488
IN.TX RATE MILLING	2.608	2.216
IN.TX RATE INDUSTRY	7.271	6.178
IN.TX RATE NAT.WATER	-100.000	0.000
IN.TX RATE WATER.PRD	-28.813	0.000
IN.TX RATE SERVICES	3.205	2.723

INDIRECT TAX RATES		
**** GROWTH %XX	0	1
IN.TX RATE AGRICUL	0.000	-15.028
IN.TX RATE FORESTRY	0.000	9597.604
IN.TX RATE MILLING	0.000	-15.028
IN.TX RATE INDUSTRY	0.000	-15.028
IN.TX RATE NAT.WATER	0.000	-100.000
IN.TX RATE WATER.PRD	0.000	-100.000
IN.TX RATE SERVICES	0.000	-15.028

WATER ACCOUNT		
	0	1
Q NATURAL WATER	4253.250	3974.140
AGRICULTURE USE	2910.070	2628.950
WATER.PRD USE	1343.180	1345.190
Q WATER PRODUCT.	5038.400	5045.911
AGRICULTURE USE	5.500	5.500
MILLING USE	56.940	56.946
INDUSTRY USE	872.900	880.603
PUB.ADMIN USE	368.840	369.836
SERVICES USE	2950.001	2952.643
CONSUMPTION	784.220	780.388

WATER ACCOUNT		
**** GROWTH %XX	0	1
Q NATURAL WATER	0.000	-6.562
AGRICULTURE USE	0.000	-9.660
WATER.PRD USE	0.000	0.150
Q WATER PRODUCT.	0.000	0.149
AGRICULTURE USE	0.000	0.007
MILLING USE	0.000	0.010
INDUSTRY USE	0.000	0.882
PUB.ADMIN USE	0.000	0.270
SERVICES USE	0.000	0.090
CONSUMPTION	0.000	-0.489

FOREST ACCOUNT		
	0	1
Q.DOM FORESTRY	17068.368	15229.246
Q.IMP FORESTRY	647.904	1986.318
TOTAL Q FORESTRY	17716.273	17215.564
AGRICULTURE USE	551.400	551.150
FORESTRY USE	1995.960	1730.657
MILLING USE	37.700	37.703
INDUSTRY USE	3314.750	3343.994
SERVICES USE	974.870	975.746
NH CONSUMPTION	10901.791	10848.482
NET INVESTMENT	-449.310	-449.348
EXPORTS	389.110	177.182
LAND FORESTRY	835.514	724.457

FOREST ACCOUNT		
**** GROWTH %XX	0	1
Q.DOM FORESTRY	0.000	-10.775
Q.IMP FORESTRY	0.000	206.576
TOTAL Q FORESTRY	0.000	-2.826
AGRICULTURE USE	0.000	-0.045
FORESTRY USE	0.000	-13.292
MILLING USE	0.000	0.009
INDUSTRY USE	0.000	0.882
SERVICES USE	0.000	0.090
NH CONSUMPTION	0.000	-0.489
NET INVESTMENT	0.000	0.008
EXPORTS	0.000	-54.465
LAND FORESTRY	0.000	-13.292

Table A17
Tax on Forest Benefits
Change Elasticity of Substitution between
Domestic and Imported Forestry Products to 10.0
(Base = 4.0)

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	657557.953
GOVERNMENT CONSUMPTION	133070.001	132881.375
NET INVESTMENT	233045.900	232885.991
PRIVATE	153646.900	153486.991
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	188698.063
TOURISTS	27317.401	27348.743
TOTAL FINAL DEMAND	1258113.096	1239372.125
IMPORTS	264428.029	270278.070
NOMINAL GDP	993685.067	969094.054

FINAL DEMAND	0	1
**** GROWTH %XX	0	1
H-H CONSUMPTION	0.000	-2.950
GOVERNMENT CONSUMPTION	0.000	-0.142
NET INVESTMENT	0.000	-0.069
PRIVATE	0.000	-0.104
PUBLIC	0.000	0.000
EXPORTS	0.000	0.837
TOURISTS	0.000	0.115
TOTAL FINAL DEMAND	0.000	-1.490
IMPORTS	0.000	2.212
NOMINAL GDP	0.000	-2.475

REAL GDP	0	1
AGRICUL	137687.884	137485.747
FORESTRY	9997.050	3642.298
MILLING	15273.094	15347.555
INDUSTRY	311253.334	309233.700
NATURAL WATER	3485.851	3222.501
WATER PRODUCT	2656.449	2622.241
PUBLIC ADMIN	43948.226	44087.347
SERVICES	469383.395	462941.870
TOTAL GDP	993685.283	978583.258
NET RENT FOREST	7776.352	2842.622
NET GDP	985908.931	975740.636

REAL GDP	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.147
FORESTRY	0.000	-63.566
MILLING	0.000	0.488
INDUSTRY	0.000	-0.649
NATURAL WATER	0.000	-7.555
WATER PRODUCT	0.000	-1.288
PUBLIC ADMIN	0.000	0.317
SERVICES	0.000	-1.372
TOTAL GDP	0.000	-1.520
NET RENT FOREST	0.000	-63.445
NET GDP	0.000	-1.031

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	223713.870
FORESTRY	17068.369	6218.642
MILLING	121780.414	122374.136
INDUSTRY	854495.754	848951.174
NATURAL WATER	4253.250	3931.925
WATER PRODUCT	5038.400	4973.519
PUBLIC ADMIN	770740.760	760163.595
SUM OUTPUT	1997419.732	1970326.861

SECTORAL OUTPUT	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.147
FORESTRY	0.000	-63.566
MILLING	0.000	0.488
INDUSTRY	0.000	-0.649
NATURAL WATER	0.000	-7.555
WATER PRODUCT	0.000	-1.288
PUBLIC ADMIN	0.000	-1.372
SUM OUTPUT	0.000	-1.356

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	96.199
FORESTRY	100.000	148.647
MILLING	100.000	97.444
INDUSTRY	100.000	99.319
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	99.648
PUBLIC ADMIN	100.000	99.684
SERVICES	100.000	99.532
TOTAL DOM.OUTPUT	100.000	99.125

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-3.801
FORESTRY	0.000	48.647
MILLING	0.000	-2.556
INDUSTRY	0.000	-0.681
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	-0.352
PUBLIC ADMIN	0.000	-0.316
SERVICES	0.000	-0.468
TOTAL DOM.OUTPUT	0.000	-0.875

PRICE CONSUMPTION	0	1
AGRICUL	100.000	96.418
FORESTRY	100.000	135.590
MILLING	100.000	97.458
INDUSTRY	100.000	99.528
WATER PRODUCT	100.000	99.648
SERVICES	100.000	99.547
ALL CONSUMPTION	100.000	99.612

PRICE CONSUMPTION	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-3.582
FORESTRY	0.000	35.590
MILLING	0.000	-2.542
INDUSTRY	0.000	-0.472
WATER PRODUCT	0.000	-0.352
SERVICES	0.000	-0.453
ALL CONSUMPTION	0.000	-0.388

EXTERNAL BALANCE

	0	1
MERC. EXPORT	158770.314	160310.923
TOURISM INCOME	27317.401	27348.743
REMITTANCES	26602.500	26602.500
INTERESTS RECEIPT	5210.900	5210.900
OTH. SERV. RECEIPT	28360.540	28387.140
TOT.EXPORT GD.SRV.	246261.655	247860.206
MERC. IMPORT	212386.642	218487.107
INTERESTS PAYM.	35429.900	35429.900
OTH. SERV. PAYM.	22383.130	21926.000
TOT.IMPORT GD.SRV.	270199.672	275843.007
TRADE BALANCE	53616.328	58176.183
AS % OF GDP	5.396	6.003
SERV. BALANCE	29678.311	30193.383
AS % OF GDP	2.987	3.116
NET TRANSFER	4128.100	4128.100
CURR. BALANCE	19809.917	23854.701
AS % OF GDP	1.994	2.462

EXTERNAL BALANCE

**** GROWTH %XX	0	1
MERC. EXPORT	0.000	0.970
TOURISM INCOME	0.000	0.115
REMITTANCES	0.000	0.000
INTERESTS RECEIPT	0.000	0.000
OTH. SERV. RECEIPT	0.000	0.094
TOT.EXPORT GD.SRV.	0.000	0.649
MERC. IMPORT	0.000	2.872
INTERESTS PAYM.	0.000	0.000
OTH. SERV. PAYM.	0.000	-2.042
TOT.IMPORT GD.SRV.	0.000	2.089
TRADE BALANCE	0.000	8.505
AS % OF GDP	0.000	11.258
SERV. BALANCE	0.000	1.736
AS % OF GDP	0.000	4.317
NET TRANSFER	0.000	0.000
CURR. BALANCE	0.000	20.418
AS % OF GDP	0.000	23.474

FACTOR USE & INCOME

	0	1
AGRICULTURE SURPLUS	27701.610	25497.080
AGRICULTURE LAND	37787.521	35759.157
AGRICULTURE WAGE	68615.720	64020.540
FORESTRY LAND	835.514	304.409
NATURAL WATER LAND	377.870	336.345
NON-AGRIC SURPLUS	483366.232	476823.829
NON-AGRIC WAGE	203820.949	199358.419
GOVERNMENT WAGE	42740.120	42740.120
EMP.SHARE AGRICUL %	68.901	70.602
EMP.SHARE FOREST %	0.917	0.342
EMP.SHARE INDUSTRY %	7.841	7.515
EMP.SHARE SERVICES %	17.114	16.314
EMP.SHARE GOV.EMPL %	5.227	5.227
CAP.SHARE AGRICUL %	5.349	5.051
CAP.SHARE FOREST %	0.071	0.024
CAP.SHARE INDUSTRY %	34.777	35.021
CAP.SHARE SERVICES %	59.803	59.903

FACTOR USE & INCOME

**** GROWTH %XX	0	1
AGRICULTURE SURPLUS	0.000	-7.958
AGRICULTURE LAND	0.000	-5.368
AGRICULTURE WAGE	0.000	-6.697
FORESTRY LAND	0.000	-63.566
NATURAL WATER LAND	0.000	-10.989
NON-AGRIC SURPLUS	0.000	-1.354
NON-AGRIC WAGE	0.000	-2.189
GOVERNMENT WAGE	0.000	0.000
EMP.SHARE AGRICUL %	0.000	2.468
EMP.SHARE FOREST %	0.000	-62.704
EMP.SHARE INDUSTRY %	0.000	-4.155
EMP.SHARE SERVICES %	0.000	-4.672
EMP.SHARE GOV.EMPL %	0.000	0.000
CAP.SHARE AGRICUL %	0.000	-5.566
CAP.SHARE FOREST %	0.000	-65.630
CAP.SHARE INDUSTRY %	0.000	0.702
CAP.SHARE SERVICES %	0.000	0.168

FACTOR PRICES

	0	1
AGRICULTURE SURPLUS	100.000	98.288
AGRICULTURE LAND	100.000	94.632
AGRICULTURE WAGE	100.000	91.823
FORESTRY LAND	100.000	100.000
NATURAL WATER LAND	100.000	89.011
NON-AGRIC SURPLUS	100.000	98.288
NON-AGRIC WAGE	100.000	102.430
GOVERNMENT WAGE	100.000	100.000

FACTOR PRICES

**** GROWTH %XX	0	1
AGRICULTURE SURPLUS	0.000	-1.712
AGRICULTURE LAND	0.000	-5.368
AGRICULTURE WAGE	0.000	-8.177
FORESTRY LAND	0.000	0.000
NATURAL WATER LAND	0.000	-10.989
NON-AGRIC SURPLUS	0.000	-1.712
NON-AGRIC WAGE	0.000	2.430
GOVERNMENT WAGE	0.000	0.000

GOVERNMENT ACCOUNT

	0	1
INDIRECT TAX	86832.389	87392.934
EXPORT&IMPORT TAX	31554.067	31796.816
DIRECT TAX	36365.050	35520.680
OTHER REVENUES	10949.350	10768.460
TOTAL INCOME	165700.856	165478.890
PUBLIC ADMINISTR	128816.750	128816.750
SUBSIDY NAT.WATER	4253.251	4064.625
SUBSIDY WATER.PRD	2039.340	2006.000
OTHER EXPENDITURES	26522.600	26522.600
TOTAL EXPENDITURES	161631.941	161409.975
GOVERNMENT SAVINGS	4068.915	4068.914
GOVERNMENT INVESTM	37809.000	37809.000
GOV. NET SAVINGS	-33740.085	-33740.086
NET RENT FOREST	7776.345	2833.212
TAX FOREST SECTOR	76.200	2832.820

GOVERNMENT ACCOUNT			FOREST ACCOUNT		
**** GROWTH %XX	0	1		0	1
INDIRECT TAX	0.000	0.646	Q.DOM FORESTRY	17068.369	6817.511
EXPORT&IMPORT TAX	0.000	0.769	Q.IMP FORESTRY	647.904	9118.037
DIRECT TAX	0.000	-2.322	TOTAL Q FORESTRY	17716.273	15935.548
OTHER REVENUES	0.000	-1.652	AGRICULTURE USE	551.400	550.587
TOTAL INCOME	0.000	-0.134	FORESTRY USE	1995.960	727.200
PUBLIC ADMINISTR	0.000	0.000	MILLING USE	37.700	37.886
SUBSIDY NAT.WATER	0.000	-4.435	INDUSTRY USE	3314.750	3293.241
SUBSIDY WATER.PRD	0.000	-1.635	SERVICES USE	974.870	961.488
OTHER EXPENDITURES	0.000	0.000	HH CONSUMPTION	10901.791	10621.393
TOTAL EXPENDITURES	0.000	-0.137	NET INVESTMENT	-449.310	-449.311
GOVERNMENT SAVINGS	0.000	0.000	EXPORTS	389.110	193.060
GOVERNMENT INVESTM	0.000	0.000	LAND FORESTRY	835.514	304.409
GOV. NET SAVINGS	0.000	0.000			
NET RENT FOREST	0.000	-63.566	FOREST ACCOUNT		
TAX FOREST SECTOR	0.000	3617.612	**** GROWTH %XX	0	1
INDIRECT TAX RATES			Q.DOM FORESTRY	0.000	-60.058
	0	1	Q.IMP FORESTRY	0.000	1307.313
IN.TX RATE AGRICUL	0.815	0.806	TOTAL Q FORESTRY	0.000	-10.051
IN.TX RATE FORESTRY	0.448	44.187	AGRICULTURE USE	0.000	-0.147
IN.TX RATE MILLING	2.608	2.580	FORESTRY USE	0.000	-63.566
IN.TX RATE INDUSTRY	7.271	7.194	MILLING USE	0.000	0.494
IN.TX RATE NAT.WATER	-100.000	-103.375	INDUSTRY USE	0.000	-0.649
IN.TX RATE WATER.PRD	-28.813	-28.813	SERVICES USE	0.000	-1.373
IN.TX RATE SERVICES	3.205	3.171	HH CONSUMPTION	0.000	-2.572
			NET INVESTMENT	0.000	00.000
INDIRECT TAX RATES			EXPORTS	0.000	-50.384
**** GROWTH %XX	0	1	LAND FORESTRY	0.000	-63.566
IN.TX RATE AGRICUL	0.000	-1.057			
IN.TX RATE FORESTRY	0.000	9753.370			
IN.TX RATE MILLING	0.000	-1.057			
IN.TX RATE INDUSTRY	0.000	-1.057			
IN.TX RATE NAT.WATER	0.000	3.375			
IN.TX RATE WATER.PRD	0.000	0.000			
IN.TX RATE SERVICES	0.000	-1.057			
WATER ACCOUNT					
	0	1			
Q NATURAL WATER	4253.250	3931.925			
AGRICULTURE USE	2910.070	2606.040			
WATER.PRD USE	1343.180	1325.890			
Q WATER PRODUCT.	5038.400	4973.519			
AGRICULTURE USE	5.500	5.489			
MILLING USE	56.940	57.221			
INDUSTRY USE	872.900	867.239			
PUB.ADMIN USE	368.840	370.011			
SERVICES USE	2950.001	2909.520			
CONSUMPTION	784.220	764.046			
WATER ACCOUNT					
**** GROWTH %XX	0	1			
Q NATURAL WATER	0.000	-7.555			
AGRICULTURE USE	0.000	-10.448			
WATER.PRD USE	0.000	-1.287			
Q WATER PRODUCT.	0.000	-1.288			
AGRICULTURE USE	0.000	-0.195			
MILLING USE	0.000	0.494			
INDUSTRY USE	0.000	-0.649			
PUB.ADMIN USE	0.000	0.317			
SERVICES USE	0.000	-1.372			
CONSUMPTION	0.000	-2.572			

Table A18
Tax on Forest Benefits
Change Elasticity of Substitution between
Domestic and Imported Forestry Products to 1.2
(Base = 4.0)

FINAL DEMAND	0	1
H-H CONSUMPTION	677548.939	678738.770
GOVERNMENT CONSUMPTION	133070.001	133054.746
NET INVESTMENT	233045.900	232828.825
PRIVATE	153646.900	153429.825
PUBLIC	79399.000	79399.000
EXPORTS	187130.854	187224.758
TOURISTS	27317.401	27322.587
TOTAL FINAL DEMAND	1258113.095	1259169.686
IMPORTS	264428.029	263734.862
NOMINAL GDP	993685.066	995434.824

FINAL DEMAND	0	1
**** GROWTH %XX	0	1
H-H CONSUMPTION	0.000	0.176
GOVERNMENT CONSUMPTION	0.000	-0.011
NET INVESTMENT	0.000	-0.093
PRIVATE	0.000	-0.141
PUBLIC	0.000	0.000
EXPORTS	0.000	0.050
TOURISTS	0.000	0.019
TOTAL FINAL DEMAND	0.000	0.084
IMPORTS	0.000	-0.262
NOMINAL GDP	0.000	0.176

REAL GDP	0	1
AGRICUL	137687.884	137558.625
FORESTRY	9997.050	9614.908
MILLING	15273.094	15272.356
INDUSTRY	311253.334	311650.102
NATURAL WATER	3485.851	3466.746
WATER PRODUCT	2656.449	2652.303
PUBLIC ADMIN	43948.226	43957.571
SERVICES	469383.395	468527.551
TOTAL GDP	993685.282	992700.161
NET RENT FOREST	7776.352	7456.317
NET GDP	985908.931	985243.845

REAL GDP	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.094
FORESTRY	0.000	-3.823
MILLING	0.000	-0.005
INDUSTRY	0.000	0.127
NATURAL WATER	0.000	-0.548
WATER PRODUCT	0.000	-0.156
PUBLIC ADMIN	0.000	0.021
SERVICES	0.000	-0.182
TOTAL GDP	0.000	-0.099
NET RENT FOREST	0.000	-4.115
NET GDP	0.000	-0.067

SECTORAL OUTPUT	0	1
AGRICUL	224042.783	223832.456
FORESTRY	17068.368	16415.921
MILLING	121780.414	121774.536
INDUSTRY	854495.754	855585.014
NATURAL WATER	4253.250	4229.940
WATER PRODUCT	5038.400	5030.537
PUBLIC ADMIN	770740.760	769335.440
SUM OUTPUT	1997419.731	1996203.844

SECTORAL OUTPUT	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.094
FORESTRY	0.000	-3.823
MILLING	0.000	-0.005
INDUSTRY	0.000	0.127
NATURAL WATER	0.000	-0.548
WATER PRODUCT	0.000	-0.156
PUBLIC ADMIN	0.000	-0.182
SUM OUTPUT	0.000	-0.061

DOM.OUTPUT PRICE	0	1
AGRICUL	100.000	99.836
FORESTRY	100.000	150.693
MILLING	100.000	99.720
INDUSTRY	100.000	99.604
NATURAL WATER	100.000	100.000
WATER PRODUCT	100.000	100.277
PUBLIC ADMIN	100.000	99.979
SERVICES	100.000	100.022
TOTAL DOM.OUTPUT	100.000	100.206

DOM.OUTPUT PRICE	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.164
FORESTRY	0.000	50.693
MILLING	0.000	-0.280
INDUSTRY	0.000	-0.396
NATURAL WATER	0.000	0.000
WATER PRODUCT	0.000	0.277
PUBLIC ADMIN	0.000	-0.021
SERVICES	0.000	0.022
TOTAL DOM.OUTPUT	0.000	0.206

PRICE CONSUMPTION	0	1
AGRICUL	100.000	99.846
FORESTRY	100.000	148.308
MILLING	100.000	99.721
INDUSTRY	100.000	99.726
WATER PRODUCT	100.000	100.277
SERVICES	100.000	100.022
ALL CONSUMPTION	100.000	100.646

PRICE CONSUMPTION	0	1
**** GROWTH %XX	0	1
AGRICUL	0.000	-0.154
FORESTRY	0.000	48.308
MILLING	0.000	-0.278
INDUSTRY	0.000	-0.274
WATER PRODUCT	0.000	0.277
SERVICES	0.000	0.022
ALL CONSUMPTION	0.000	0.646

EXTERNAL BALANCE			FACTOR USE & INCOME		
	0	1	**** GROWTH %XX	0	1
MERC. EXPORT	158770.314	158865.488	AGRICULTURE SURPLUS	0.000	-0.523
TOURISM INCOME	27317.401	27322.587	AGRICULTURE LAND	0.000	-0.365
REMITTANCES	26602.500	26602.500	AGRICULTURE WAGE	0.000	-0.352
INTERESTS RECEIPT	5210.900	5210.900	FORESTRY LAND	0.000	-3.823
OTH. SERV. RECEIPT	28360.540	28359.270	NATURAL WATER LAND	0.000	-0.754
TOT.EXPORT GD.SRV.	246261.655	246360.745	NON-AGRIC SURPLUS	0.000	0.420
MERC. IMPORT	212386.643	211837.123	NON-AGRIC WAGE	0.000	0.334
INTERESTS PAYM.	35429.900	35429.900	GOVERNMENT WAGE	0.000	0.000
OTH. SERV. PAYM.	22383.130	22336.890	EMP.SHARE AGRICUL %	0.000	0.185
TOT.IMPORT GD.SRV.	270199.673	269603.913	EMP.SHARE FOREST %	0.000	-3.538
TRADE BALANCE	53616.328	52971.634	EMP.SHARE INDUSTRY %	0.000	-0.194
AS % OF GDP	5.396	5.321	EMP.SHARE SERVICES %	0.000	-0.468
SERV. BALANCE	29678.311	29728.467	EMP.SHARE GOV.EMPL %	0.000	0.000
AS % OF GDP	2.987	2.986	CAP.SHARE AGRICUL %	0.000	-0.840
NET TRANSFER	4128.100	4128.100	CAP.SHARE FOREST %	0.000	-4.525
CURR. BALANCE	19809.917	19115.068	CAP.SHARE INDUSTRY %	0.000	0.227
AS % OF GDP	1.994	1.920	CAP.SHARE SERVICES %	0.000	-0.051
EXTERNAL BALANCE			FACTOR PRICES		
	0	1		0	1
**** GROWTH %XX			AGRICULTURE SURPLUS	100.000	100.369
MERC. EXPORT	0.000	0.060	AGRICULTURE LAND	100.000	99.635
TOURISM INCOME	0.000	0.019	AGRICULTURE WAGE	100.000	99.512
REMITTANCES	0.000	0.000	FORESTRY LAND	100.000	100.000
INTERESTS RECEIPT	0.000	0.000	NATURAL WATER LAND	100.000	99.246
OTH. SERV. RECEIPT	0.000	-0.004	NON-AGRIC SURPLUS	100.000	100.369
TOT.EXPORT GD.SRV.	0.000	0.040	NON-AGRIC WAGE	100.000	100.719
MERC. IMPORT	0.000	-0.259	GOVERNMENT WAGE	100.000	100.000
INTERESTS PAYM.	0.000	0.000			
OTH. SERV. PAYM.	0.000	-0.207	FACTOR PRICES		
TOT.IMPORT GD.SRV.	0.000	-0.220	**** GROWTH %XX	0	1
TRADE BALANCE	0.000	-1.202	AGRICULTURE SURPLUS	0.000	0.369
AS % OF GDP	0.000	-1.376	AGRICULTURE LAND	0.000	-0.365
SERV. BALANCE	0.000	0.169	AGRICULTURE WAGE	0.000	-0.488
AS % OF GDP	0.000	-0.007	FORESTRY LAND	0.000	0.000
NET TRANSFER	0.000	0.000	NATURAL WATER LAND	0.000	-0.754
CURR. BALANCE	0.000	-3.508	NON-AGRIC SURPLUS	0.000	0.369
AS % OF GDP	0.000	-3.677	NON-AGRIC WAGE	0.000	0.719
			GOVERNMENT WAGE	0.000	0.000
FACTOR USE & INCOME			GOVERNMENT ACCOUNT		
	0	1		0	1
AGRICULTURE SURPLUS	27701.610	27556.790	INDIRECT TAX	86832.389	86825.425
AGRICULTURE LAND	37787.521	37649.532	EXPORT&IMPORT TAX	31554.067	31462.545
AGRICULTURE WAGE	68615.720	68374.160	DIRECT TAX	36365.050	36445.890
FORESTRY LAND	835.514	803.576	OTHER REVENUES	10949.350	10954.210
NATURAL WATER LAND	377.870	375.020	TOTAL INCOME	165700.856	165688.070
NON-AGRIC SURPLUS	483366.231	485397.001	PUBLIC ADMINISTR	128816.750	128816.750
NON-AGRIC WAGE	203820.949	204502.624	SUBSIDY NAT.WATER	4253.251	4237.996
GOVERNMENT WAGE	42740.120	42740.120	SUBSIDY WATER.PROD	2039.340	2041.810
EMP.SHARE AGRICUL %	68.901	69.029	OTHER EXPENDITURES	26522.600	26522.600
EMP.SHARE FOREST %	0.917	0.885	TOTAL EXPENDITURES	161631.941	161619.156
EMP.SHARE INDUSTRY %	7.841	7.825	GOVERNMENT SAVINGS	4068.915	4068.913
EMP.SHARE SERVICES %	17.114	17.034	GOVERNMENT INVESTM	37809.000	37809.000
EMP.SHARE GOV.EMPL %	5.227	5.227	GOV. NET SAVINGS	-33740.085	-33740.087
CAP.SHARE AGRICUL %	5.349	5.304	NET RENT FOREST	7776.345	7479.090
CAP.SHARE FOREST %	0.071	0.068	TAX FOREST SECTOR	76.200	7479.550
CAP.SHARE INDUSTRY %	34.777	34.856			
CAP.SHARE SERVICES %	59.803	59.772			

GOVERNMENT ACCOUNT			FOREST ACCOUNT		
**** GROWTH %XX	0	1		0	1
INDIRECT TAX	0.000	-0.008	Q.DOM FORESTRY	17068.368	16679.929
EXPORT&IMPORT TAX	0.000	-0.290	Q.IMP FORESTRY	647.904	695.969
DIRECT TAX	0.000	0.222	TOTAL Q FORESTRY	17716.273	17375.898
OTHER REVENUES	0.000	0.044	AGRICULTURE USE	551.400	550.882
TOTAL INCOME	0.000	-0.008	FORESTRY USE	1995.960	1919.665
PUBLIC ADMINISTR	0.000	0.000	MILLING USE	37.700	37.699
SUBSIDY NAT.WATER	0.000	-0.359	INDUSTRY USE	3314.750	3318.973
SUBSIDY WATER.PRD	0.000	0.121	SERVICES USE	974.870	973.092
OTHER EXPENDITURES	0.000	0.000	HH CONSUMPTION	10901.791	10850.804
TOTAL EXPENDITURES	0.000	-0.008	NET INVESTMENT	-449.310	-449.330
GOVERNMENT SAVINGS	0.000	0.000	EXPORTS	389.110	174.104
GOVERNMENT INVESTM	0.000	0.000	LAND FORESTRY	835.514	803.576
GOV. NET SAVINGS	0.000	0.000			
NET RENT FOREST	0.000	-3.823	FOREST ACCOUNT		
TAX FOREST SECTOR	0.000	9715.682	**** GROWTH %XX	0	1
			Q.DOM FORESTRY	0.000	-2.276
INDIRECT TAX RATES			Q.IMP FORESTRY	0.000	7.418
	0	1	TOTAL Q FORESTRY	0.000	-1.921
IN.TX RATE AGRICUL	0.815	0.743	AGRICULTURE USE	0.000	-0.094
IN.TX RATE FORESTRY	0.448	43.339	FORESTRY USE	0.000	-3.822
IN.TX RATE MILLING	2.608	2.379	MILLING USE	0.000	-0.004
IN.TX RATE INDUSTRY	7.271	6.633	INDUSTRY USE	0.000	0.127
IN.TX RATE NAT.WATER	-100.000	-100.190	SERVICES USE	0.000	-0.182
IN.TX RATE WATER.PRD	-28.813	-28.813	HH CONSUMPTION	0.000	-0.468
IN.TX RATE SERVICES	3.205	2.924	NET INVESTMENT	0.000	0.004
			EXPORTS	0.000	-55.256
INDIRECT TAX RATES			LAND FORESTRY	0.000	-3.823
**** GROWTH %XX	0	1			
IN.TX RATE AGRICUL	0.000	-8.763			
IN.TX RATE FORESTRY	0.000	9564.456			
IN.TX RATE MILLING	0.000	-8.763			
IN.TX RATE INDUSTRY	0.000	-8.763			
IN.TX RATE NAT.WATER	0.000	0.190			
IN.TX RATE WATER.PRD	0.000	0.000			
IN.TX RATE SERVICES	0.000	-8.763			
WATER ACCOUNT					
	0	1			
Q NATURAL WATER	4253.250	4229.940			
AGRICULTURE USE	2910.070	2888.850			
WATER.PRD USE	1343.180	1341.090			
Q WATER PRODUCT.	5038.400	5030.537			
AGRICULTURE USE	5.500	5.495			
MILLING USE	56.940	56.942			
INDUSTRY USE	872.900	874.015			
PUB.ADMIN USE	368.840	368.916			
SERVICES USE	2950.001	2944.619			
CONSUMPTION	784.220	780.554			
WATER ACCOUNT					
**** GROWTH %XX	0	1			
Q NATURAL WATER	0.000	-0.548			
AGRICULTURE USE	0.000	-0.729			
WATER.PRD USE	0.000	-0.156			
Q WATER PRODUCT.	0.000	-0.156			
AGRICULTURE USE	0.000	-0.095			
MILLING USE	0.000	0.003			
INDUSTRY USE	0.000	0.128			
PUB.ADMIN USE	0.000	0.021			
SERVICES USE	0.000	-0.182			
CONSUMPTION	0.000	-0.467			