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II. 1. Methodology for Construction of World Economic Model

Mihajlo Mesarovic and Eduard Pestel

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Construction of a model for the world economic system is a very ambitious and complex task which becomes almost overbearing if one is aiming at, as we are, to analyze the total world system as such rather than solely its economic component. The success or failure of such an undertaking depends on how one approaches the problem of complexity both in the model as well as in the process of constructing the model. One would like to structure the model so as to be able to grasp the essential causes for its behavior while at the same time the model is sufficiently detailed and specific to allow for satisfactory validation with data as well as assessment of changes in structure caused by the changes in technology and the likes. Regarding the model construction process, one would like to be able to assess the progress in the "final model" construction at various stages of development rather than wait for the test at the very end when the corrections might be hard and expensive to implement.

To accomplish these objectives we are using a methodology based on the multilevel, hierarchical, systems theory. Essential feature of the methodology, as far as our present purpose is concerned is the concept of having a model with 'hierarchical structure' as well as a 'hierarchy of models'.

Specifically, as far as world economic model is concerned, the model is being developed on three levels:

(i) *Growth Level* - which is aimed at representing the most important feature in a dynamic fashion.

(ii) *Macro level* - which is aimed at explaining that behavior in terms of internal variables.

(iii) *Micro level* - which is aimed at disaggregating the variables and subsystems from the macro level for the purpose of a more detailed investigation.

Of course, each of the levels can be divided further into a hierarchy of sublevels.

Using such an approach an overall structure for the world economic system is developed as shown in Figure 1. There are ten regions in our model. For each of these regions models on growth, macro and micro level have been developed first.

Two problems had to be solved next to implement this strategy: Interrelationship between the regions and between the levels.

On the macro level the *total world* model is being developed from the start so that very implementation itself is possible only by making adequate provisions for interregional exchange. On the growth level the interconnection is possible only by using the macro variables; in essence, therefore, the growth models are interconnected through the macro level. On the micro level, the considerations regarding regional interconnection must be based on the trade-off between the increased complexity of the model and benefits accrued by having detailed information on exchange. We have developed micro models on three levels of disaggregation: two sectors, four sectors and nine sectors. Two sector models are used for the consideration of special problems, such as

the world food supply and are appropriately interconnected reflecting commodity exchange. The higher levels of disaggregation models, however, are not interconnected at this stage for the obvious reason of complexity. To derive the trade matrix change over twenty years of data validation period requires estimation of 20x10x10 = 2000 parameters. To further disaggregate this matrix to accommodate for five or more sectors exchange would increase the complexity enormously and to such a degree that a rather convincing justification must be provided for such an effort. All the preparations are made to implement these links, however in particular, a five sectors interregional trade matrix which gives flows and distribution coefficients by origin and destination is prepared.†

Regarding the interlevel relationships the situation is the following: The growth level models can be simply viewed as generated from the macro level by aggregation. The micro models given in nine sectors disaggregation have been implemented as satellites to the macro models using input-output matrix and other information available on the micro level. The specific relationship between the macro and micro level models are, in general, determined by iteration. The two sector models, on the other hand, are developed in terms of its own dynamics.

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† W. Strobele, A. Erdilek, et. al., "Economic Data Base For Regionalized Multilevel World Model", March, 1974.

II. 2. Specification of Structure for a Macro-Economic World Model

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1. Introduction: Motivation and Objectives

The objective of this paper is to outline a specification for the macro economic submodel within a hierarchical and regionalized model of the world development system. The basic motivation for the construction of such a model and the overall approach on which the effort is based are described elsewhere. However, some remarks to that effect are appropriate here in order to provide a background for the selection of relationships in terms of which the economic submodel is specified.

(i) The model is aimed at the assessment of *very long time trends*, i.e. for a period of 25 to 50 years or more. The difficulties in making such long term assessments are fully appreciated; yet, the time horizon of interest had to be selected so as to commensurate with the time constants of the dynamics of various systems involved. The population subsystem, for one, has such long time constants. For instance, if the birth rate would reach abruptly the replacement level it would take 30 to 50 years for the population system to reach an equilibrium, depending on the age distribution of the population. The economic submodel will have to be considered over the same period of time. Clearly only the most basic economic trends should be represented in such a model.

(ii) The world system is represented in terms of a set of *interacting regions*. The economic relationships between the countries included in any given region ought to be represented only insofar as they affect the aggregate regional development and the interregional relationships.

(iii) The *economic submodel* is *interconnected* with numerous *other submodels*, population, food, energy, water resources, to mention

a few. It is essential that the economic submodel provides the points for establishing such interconnections.

(iv) In view of the uncertainties associated with such a long term view the model is intended to be used for the *assessment of alternative developments*, under a variety of plausible sequences of events and conditions rather than for predicting the future. In the overall methodology used in the project this will be done by means of scenaria which define sequences of plausible events which are then applied to the model in order to assess the feasibility of such a scenario and the likely consequences. For that purpose the model should not be overly endogenized so as to become an autonomous, closed, system. Rather, it ought to be an open system with sufficient entries to implement various scenaria while, of course, capturing the essential relationships endogenously.

(v) In order to represent the *adaptive* characteristics of the *system* - which surely will manifest itself over such a long period of time - the overall model will have decision-making and normative stratum in addition to dynamical systems part representing the historical patterns of development. These higher strata are being implemented through man-machine interaction and the dynamic, lower stratum model, ought to have the entry points for the implementation of various policy measures.

2. Hierarchical and Regionalized Approach

One of the principal difficulties in both construction and use of the overall model is due to its complexity. In order to deal with the complexities the hierarchical approach is used in the project not only for the specification of the overall structure but also in the development of specific submodels and in reference to different levels of aggregation. For example, the economic submodel is developed on three levels termed *growth level*, *macro level* and *micro level*. On the growth level a regional economy is represented simply in terms of the changes in the gross regional product with the changes in the growth rate as the scenario or policy variable. On the macro level the total capital formation and the final demand components are represented together with the total production function, total trade matrix and other macro variables. On the micro level the regional output is specified in terms of several production sectors on an appropriate level of aggregation and the intermediate demands are represented in terms of input-output relationships.

The basic regionalization of the world system is given in terms of ten regions: (1) North America, (2) Western Europe, (3) Japan, (4) Rest of Developed, (5) Eastern Europe, (6) Latin America, (7) Middle East, (8) Africa, (9) Southeast Asia, (10) China. However again in the spirit of the hierarchical approach - several higher and one lower level aggregation will also be used namely:

(a) Total world

(b) Two regions: 1-5 and 6-10

(c) Three regions: 1-4, 5, 6-10

(d) Four regions: 1-4, 5, 6-9, 10

(e) Ten regions

(f) Eleven regions: the same as in (e) except that the region 9 is divided in two: 9a - Pakistan, India, Bangladash; 9b - rest of 9.

Two additional advantages of the hierarchical approach ought to be mentioned:

(a) It facilitates the grasp of the structure of the model and therefore an understanding of why a certain behavior is observed.

(b) It enables the construction of the model in stages; at each stage one has a definite version of the model which can be verified by data and used appropriately.

Finally, it should be mentioned that the model can be also used for the analysis of any particular country in the context of regional and world development by the addition of an appropriate satellite model.

3. Structure of Regional Macro-Economic Model

We shall first outline the structure for a general model applicable with modest changes to different regions; then we shall specify these changes consistently with interlocked regions to be specified by adapting the general model for each of the separate cases.

The general model which we have adapted for the world model is based on the flow of aggregate production (supply) and demand associated with that production. The balance between supply and demand closes the system. This is a "real" model; in a closing section reference will be made to extensions of the model to include market phenomena more explicitly.

(a) *Production*

A technological production function with labour and capital inputs determines the aggregate supply of goods.

$$Y_t^S = f(K_{t-1}, LF_t) \tag{1}$$

This is an equation of potential supply, showing how much production (value added), Y_y^S, could be supplied from full use of capital available, K_t, and labour force, LF_t. The input values are developed as

$$K_t = K_{t-1} - D * K_{t-1} + I_t \tag{2}$$

$$LF_t/N_t = P_t \tag{3}$$

Equation (2) is an accounting identity that states that change in capital stock, K_t, is defined as gross capital outlay, I_t, less capital consumption

or depreciation, $D * K_{t-1}$, where D is a depreciation rate. The variable I_t will be determined from the demand side of the system, below.

Equation (3) defines the labour-force participation rate, P_t, as the ratio of labour force, LF_t, to population N_t. In some countries and historical episodes the participation rate may be essentially constant. In general, however, it depends on:

(i) age composition of the population

(ii) income per worker

(iii) regulations of the educational system

(iv) retirement practices

(v) facilities for child care

Ultimately, participation rates could be explained by additional equations of the system. At this stage they are treated as fixed or time variable parameters, as estimated from the data. As for total population, it will be determined in the demographic model and regarded as exogenous for this version of the model. This provides for one-way linkage between the demographic and economic models in the hierarchical system which will be augmented with economic determinants to complete a two-way linkage.

There are two significant implications as a result of this approach to the supply side. (i) The system will have trend dynamics since equation (2) is a finite difference or accumulation process, affected by current flows, I_t, and having an effect on current flows in (1). (ii) No allowance is made for idle capital or labour force; i.e., there is no recognition of the

cyclical effects of underutilization of capacity or unemployment in (1); it shows the trend of potential output. Care must be taken in estimation of the production function to allow for variation in factor utilization over the sample period, however, in order not to bias the parameter estimates. Potential output is then determined by extrapolations holding utilization rates constant at their full capacity levels.

Actual output, Y_t, as contrasted with potential output, depends on employment, L_t, and capital utilized. Since the latter variable is not customarily observable in most economic data collections we simply use K_t, capital available or some index of capital utilization.

$$Y_t = f(K_{t-1}, L_t) \tag{4}$$

In (4) the same f-function is used as in (1). This implies that actual output and potential output are simply two different performance points on the same production surface -- one using full capacity inputs and the other using actual inputs. The equation in (4) could be a different function, but that is not essential.

In many studies nowadays, (4) is inverted or renormalized in the form

$$L_t = f^{-1}(K_{t-1}, Y_t)$$

This has no bearing on the simulation properties of the system but may affect estimation of parameters. This is the form we are using in the present model for developing countries since Y_t is determined by aggregate demand and the inverted production function is needed to assess employment in disequilibrium situations.

Consistent with our model, different parametric forms of f can be used (e.g., linear, log linear, or some other well-known variant). In the case of production relationships to be used in long run analysis, we have used a nonlinear form of production function.†

The foregoing development implicitly assumes constant hours per employee. Labour input in the production function is measured in man-hours rather than men, however, and any significant trend in hours of work would affect the trend in labour input. To take account of this (1) and (4) are rewritten as

$$Y_t^S = f(K_{t-1}, HF_t * LF_t) \qquad (1a)$$

$$Y_t = f(K_{t-1}, H_t * LF_t) \qquad (4a)$$

where HF_t and H_t are hours worked per employee under full employment and actual employment conditions. Cyclical variations in H_t should be accounted for in estimating the production function, but for extrapolation purposes H_t could set equal to HF_t and the trend in hours specified exogenously. In a more detailed model hours of work may be partly explained by the real wage rate as a determinant of the work-leisure choice.

(b) *Demand*

By definition and social accounting practice, total production is obtained as the sum of well-defined components of demand.

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† M. McCarthy and G. Shuttic, "Cobb-Douglas Production Function for the World Model Project and a One Sector Growth Model Interpretation", in this volume.

$$Y_t = C_t + I_t + G_t + X_t - M_t \qquad (5)$$

where

C_t = consumer expenditures

I_t = gross investment expenditures

G_t = government expenditures

X_t = exports

M_t = imports

It is defined to include an inventory component, which assures an accounting identity between actual production and total demand. There can, however, be a discrepancy between potential production and actual production

$$Y_t^S - Y_t \ .$$

This could serve in an enlarged model as an indicator of pressure on the price level or as a dynamic adjustment factor for output, i.e.,

$$\Delta p_t = F(Y_t^S - Y_t)$$

$$\Delta Y_t = G(Y_t^S - Y_t) \ .$$

These dynamic relations are of more importance for short run business cycle modeling and are less relevant in the present context where attention is centered on the long run.

A simple formulation of the domestic demand components is

$$C_t = GC_t * Y_t \qquad (6)$$

$$I_t = GI_t * Y_t \quad (7)$$

$$G_t = CG_t * Y_t \quad (8)$$

These are all expressed as proportions of total production. The ratios are not and will have to be either constant, estimated as time functions from the data or explained endogenously by additional set of relationships reflecting also policy variables.

The consumption-income ratio GC_t depends on income history (or past levels of consumption), the tax/welfare system, wealth, income distribution, and in the extended model on market values for interest rate and inflation rate. The investment-income ratio depends on productivity of capital, the labour/capital ratio, output history, interest rate and inflation rate. Finally, the government expenditures ratio depends on fiscal policy parameters such as tax and public spending rates.

In the first round applications of this system, market variables will not be used, therefore income history, output history, capital productivity, capital/labour ratios and similar variables already contained in the physical model will be used as the variables for explaining these ratios in addition to policy variables such as tax and public expenditure rates.

The final two variables in the accounting identity (5) are exports and imports. They must be explained in each regional or country model in a way that is consistent with the treatment of partner trading areas. On an individual country or area basis, however, we can formulate two simple relationships

$$X_t = GX_t * WT_t \tag{9}$$

$$M_t = GM_t * Y_t \tag{10}$$

The new variable WT_t is world trade; it is defined as the sum of all countries' exports or imports

$$WT_t = \sum_i M_{it} = \sum_i X_{it}$$

In making a world model composed of the basic regions outlined above, special attention is paid to structurein order to preserve this accounting "law of conservation" for the system.

The ratios GX_t and GM_t depend on income history, exchange rates, terms of international trade (export and import prices), tariffs, and trade policies. Exchange rates and terms of trade will not be introduced in the first round models.

For some areas of the world, foreign exchange resources impose a limitation on imports. Imports, for these countries, tend to move with exports. This idea will be explicitly introduced later.

World trade are external variables to each regional model, which is endogenized in the system of inter-locking regional models described below. They drive the system, together with policy variables or parameters. There are ten variables to be determined by ten equations. The variables are Y_t^S, K_t, LF_t, I_t, L_t, Y_t, C_t, G_t, X_t, M_t. If we want to determine unemployment, it is computed from the identity

$$U_t = LF_t - L_t \ .$$

Similarly, savings are incomes not spent, or

$$S_t = Y_t - C_t \ ,$$

while the trade balance is

$$B_t = X_t - M_t \ .$$

4. A World Macro-Economic Model

The regional prototype model described in Section 3 is used as a starting point for each region in the world system, but there are important structural differences between main types of economic systems that should usefully be taken into account in getting a consistent system for the whole world. We differentiate among three types of economies:

D. Developed market economies--Regions 1, 2, 3, 4

C. Centrally planned economies--Regions 5, 10

L. Less developed economies--Regions 6, 7, 8, 9

In the three cases, the production functions may be different, reflecting the differences in degrees of marginal returns to scale associated with stages of development, or the factors influencing the key ratios GC_t, GI_t, GG_t, GX_t, GM_t may be different. Certainly the main policy parameters are, in general, different.

We are going to vary the specifications of production, employment and trade among the three regions. We assume that centrally planned and less developed economies export their surplus output and purchase imports to the extent that they can pay for them with exports. In the case of the developed economies, we assume that they export according to the trading demand (inputs) of other countries and import according to their income levels. We shall further assume that centrally planned economies try to maintain trading balance with each of their two partners in separate bilateral agreements and that developing countries' purchases from developed

countries are constrained by the credits and grants that the latter are willing to make for the purpose of development assistance.

Other special features will be explained as we progress through the outline of each model.

(a) *Developed Market Economies* (D)

This system is most like the general prototype model outlined above. There are equations of potential output, capital supply, and labour force participation.

$$Y^{S}_{DT} = f_D(K_{Dt-1}, LF_{DT}) \tag{1D}$$

$$K_{DT} = K_{Dt-1} - D_D * K_{Dt-1} + I_{DT} \tag{2D}$$

$$LF_{Dt}/N_{Dt} = P_{Dt} \tag{3D}$$

In the framework of a world system, however, there is one refinement to the specification for (1D) that may prove to be important, namely, that imports from C and L are factors of production in the same way that K_t and LF_t are. The reason for this modification to the developed economy model is that imports of basic materials are essential to the production process, and these basic materials come to a significant degree from the socialist and developing countries of the world. Some basic materials are shipped from one developed to another developed economy, but this is less prevalent than the lines of trade that we have assumed between C and L on the one hand and D on the other. This is the simplest assumption that can be made short of disaggregation of the model by distinguishing among types of traded goods.

In the context of modeling a single country in DC or L, we generally use a value-added concept for measuring Y^S and Y. This means that domestic intermediate materials cancel, as outputs for some sectors and inputs for others. For this reason, they have been neglected as factor inputs in the study of aggregative production relations. This is proper for the economy as a whole, but not for separate treatment of industrial sectors. Foreign trade in intermediate materials does not cancel out by being simultaneously on the production and input sides; it is only an input. This point became dramatically apparent in the fuel crisis of 1973-74. Models that included imported fuel as a factor input would have been in an extraordinarily good position for analyzing the effects of shortages in industrial market economies.

We introduce a bilateral trade matrix

$$X = \begin{matrix} X_{DD} & X_{DC} & X_{DL} \\ X_{CD} & X_{CC} & X_{CL} \\ X_{LD} & X_{LC} & X_{LL} \end{matrix}$$

where X_{ij} shows the flow of goods from region i to region j, all measured in a common numéraire unit.

The trade flows X_{CD} and X_{LD} are the ones that should be entered as factors of production.

Instead of entering these material flows into the value added production function, they will be treated as separate fixed proportion constraints, so

that the production sector consists of the triplet

$$Y^S_{Dt} = f_D(K_{D,t-1}, LF_{Dt}) \qquad (1D)'$$
$$X_{CDt} = GX_{CDt} * Y^S_{Dt}$$
$$X_{LDt} = GX_{LDt} * Y^S_{Dt}$$

The last two equations are production requirement functions for imported materials. The coefficients GX_{CDt} and GX_{LDt} reflect both the ratio of gross output to value added and the production coefficient in gross output. These are demand relations as long as supplies are unconstrained, giving required material imports determined by full-employment output. In the event that supplies of external materials are constrained below the levels needed for full employment production, thecorresponding requirement equation will become a boundary condition determining Y^S_{Dt}. This formulation gives more structural content to the workings of the world economy and is in the spirit of existing macroeconomic models which combine aggregative value-added production functions with an input-output system for determining industrial inputs and outputs.

An alternative formulation would shift the aggregate production concept to gross output and incorporate material inputs directly in the production function. The present procedure makesit unnecessary to distinguish explicitly between gross output and value-added, yields explicit demand equations for imported materials, and is easier to implement empirically. Substitution between materials and other factors may be handled by varying GX_{CDt} or GX_{LDt}.

A similar triplet of equations will define the corresponding flow of actual production Y_{Dt}, with the value added production function used in inverted form to determine actual employment LDt.

The aggregate demand accounting identity and associated domestic demand relations of the general model hold for the developed economy case.

$$Y_{Dt} = C_{Dt} + I_{Dt} + G_{Dt} + X_{Dt} - M_{Dt} \tag{4D}$$

$$C_{Dt} = GC_{Dt} * Y_{Dt} \tag{5D}$$

$$I_{Dt} = GI_{Dt} * Y_{Dt} \tag{6D}$$

$$G_{Dt} = GG_{Dt} * Y_{Dt}$$

The expenditure ratios GC_t, GI_t, and GG_t are determined terms of other variables in the D model or as time functions by estimation from the data.

The equations for total exports and imports of the developed market economies consist of the accounting identities from the bilateral trade matrix

$$X_{Dt} = X_{DDt} + X_{DCt} + X_{DLt} \tag{8D}$$

$$M_{Dt} = X_{DDt} + X_{CDt} + X_{LDt} \tag{9D}$$

The import equations for X_{CDt} and X_{LDt} were already specified in the production sector. In order to complete the import side we add the remaining import demand function

$$X_{DDt} = GX_{DDt} * Y_{DDt}$$

If the D sector consisted of only one country, X_{DD} would be zero, but since we do account for all world trade flows among the countries in an aggregated regional system, the intra-regional imports are incorporated as above.

With regard to exports, it remains to determine X_{DCt} and X_{DLt}. Instead of supplying specific export functions for these flows, we treat them as exogenously determined from the viewpoint of the developed market economies. They are determined endogenously as import flows in the other regional models, as described below.

The closing of the gap between potential and actual aggregate output in the developed market economies ordinarily is brought about by adjustments in the production flow. In the short-run dynamics of the system, we could use

$$\Delta Y_{Dt} = G_D \ (Y^S_{Dt} - Y_{Dt})$$

or assume an equilibrium growth path for these economies in line with potential output and impose the restriction

$$Y^S_{Dt} = Y_{Dt}$$

This permits the deletion of one variable and one equation.

(b) *Centrally Planned Economies*

A basic assumption for this model is that the planners are committed to full employment; therefore we begin with a formulation in which actual output coincides with potential output and labour force with total employment. We do not consider an adjustment process or an unemployment calculation after labour force and employment requirements are determined.

The production relations are

$$Y_{Ct} = f_C(K_{Ct-1}, L_{Ct}) \tag{1C}$$

$$K_{Ct} = K_{Ct-1} - D_C * K_{Ct-1} + I_{Ct} \tag{2C}$$

$$L_{Ct}/N_{Ct} = P_{Ct} \tag{3C}$$

As in the general case, we have an accounting identity and domestic expenditure relations.

$$Y_{Ct} = C_{Ct} + I_{Ct} + G_{Ct} + X_{Ct} - M_{Ct} \tag{4C}$$

$$C_{Ct} = GC_{Ct} * Y_{Ct} \tag{5C}$$

$$I_{Ct} = GI_{Ct} * Y_{Ct} \tag{6C}$$

$$G_{Ct} = GG_{Ct} * Y_{Ct} \tag{7C}$$

Particular trade content of an inter-related system can be introduced here by making GI_{Ct} explicitly dependent on capital goods imports from developed market economies. For simplicity we assume that all flows in X_{DC} are capital goods, which is presently a major aspect of trade between D and C.

The trade relationships for centrally planned economies are now going to be different from those in the general model. Since there are no distinctions between Y^S and Y, LF and L in the centrally planned economies, according to the assumption of a commitment to full employment and full utilization of all economic resources, this eliminates two separate variables, but only one equation; therefore the accounting equation can be used to determine total exports. If it is rewritten as

$$X_{Ct} = Y_{Ct} - C_{Ct} - I_{Ct} - G_{Ct} + M_{Ct}$$

we see clearly that exports are calculated as production that is not consumed. We need, however, an import equation. It is

$$M_{Ct} = X_{DCt} + X_{LCt} + X_{CCt} \tag{8C}$$

As remarked previously, we assume that centrally planned economies negotiate bilateral trading agreements with market and developing economies in such a way as to maintain zero balances with each.

$$X_{DCt} = X_{CDt} \tag{8C1}$$

$$X_{LCt} = X_{CLt} \tag{8C2}$$

These are essentially barter agreements and are not unusual for the economies concerned. Given the export flows X_{CD} and X_{CL}, as established by import demand functions of the market and developing economies, the corresponding imports of the centrally planned economies are fully determined by the assumption of negotiated zero bilateral balances. Since the intra-regional trade flows must necessarily balance whether viewed as exports or imports, the assumption of zero bilateral external balances also implies equality of total imports and exports of the centrally planned economies. Therefore intra-regional imports are given residually as

$$\begin{aligned} X_{CCt} &= M_{Ct} - X_{DCt} - X_{LCt} \\ &= X_{Ct} - X_{DCt} - X_{LCt} \end{aligned} \tag{8C3}$$

Thus aggregate exports are determined as production which is not consumed and the export proceeds are spent exhaustively on an equal flow of imports, with the three bilateral components given by (8C1) - (8C3).

The assumption of an automatic full utilization growth path, the residual treatment of exports, and the purchasing power over imports are thus seen as distinctive features of the macro model for the centrally planned economies.

(c) *Less Developed Economies*

A key problem in these economies is a surplus of labour together with a shortage of capital. Capital availability is, therefore, a limiting factor in production. Output and labour requirements are separately determined by capital in fixed-proportion relationships. This is a first approximation, which denies the existence of strong substitution possibilities.

$$Y_{Lt} = Q_{Lt} * K_{Ly-1} \tag{1L}$$

$$L_{Lt} = R_{Lt} * K_{Lt} \tag{2L}$$

$$K_{Lt} = K_{Lt-1} + D_L * K_{Lt-1} + I_{Lt} \tag{3L}$$

The ratios Q_{Lt} and R_{Lt} (capital-output and capital-labour reciprocals) depend on the determinants of technical progress. This is a very different production process form that envisaged for the developed market or centrally planned economies, but it is one that seems to be well suited to the description of the developing economy.

Since there exists a chronic reserve of disguised as well as open unemployment in these economies, owing to the inability of eliminating unemployment by demand stimuli because of inadequate opportunities for labour-capital substitution, the concept of a full employment labour force loses precision. Under these circumstances little purpose would be served by including a labour force participation equation and unemployment identities in the developing country model. Total population and various per capita statistics are useful to look at as output quantities of the model. These can be formed from the population estimates of a demographic model and the solution values of the economic system.

The total accounting identity and demand ratios stand, as in the other two cases,

$$Y_{Lt} = C_{Lt} + I_{Lt} + G_{Lt} + X_{Lt} - M_{Lt} \qquad (4L)$$

$$C_{Lt} = GC_{Lt} * Y_{Lt} \qquad (5L)$$

$$I_{Lt} = GI_{Lt} * Y_{Lt} \qquad (6L)$$

$$G_{Lt} = GG_{Lt} * Y_{Lt} \qquad (7L)$$

The ratio GI_{Lt} depend on imports from developed market economies, mainly in the form of capital goods imports. This is the same consideration that was mentioned for the centrally planned economies, and the explanatory variable is, in this case, X_{DL}.

Exports are calculated from a transposed form of (4L), as the flow of production that is not wholly consumed. We need only an import equation to close this modular component of the system

$$M_{Lt} = X_{DLt} + X_{CLt} + X_{LLt} \qquad (8L)$$

We assume that imports of the developing countries are constrained by foreign exchange resources, as mentioned earlier. We therefore introduce the grant transfer relation

$$X_{DLt} = X_{LDt} + T_{DLt} \ , \qquad (8L1)$$

when T_{DL} is the total of development grants made available to L by D. T_{DL} is an external variable for the system. The volume of export receipts from developed countries is given by X_{LD}.

As discussed earlier, X_{LD} is determined as an import demand by the level of production in the market economies, unless it is constrained from thesupply side by the developing countries, as in the oil embargo case. In such an event it is an exogenous variable in the present version of the model.

Imports from the centrally planned economies are related to the income levels of the developing economies

$$X_{CLt} = GX_{CLt} * Y_{Lt} \qquad (8L2)$$

Finally, intra-regional imports are given residually by

$$\begin{aligned} X_{LLt} &= M_{Lt} - X_{DLt} - X_{CLt} \\ &= (X_{Lt} + T_{DLt}) - X_{DLt} - X_{CLt} \end{aligned}$$

Thus aggregate exports are supply determined and the export proceeds, together with the exogenous flow of development grants, are spent exhaustively on imports, with the bilateral composition given by (8L1) - (8L3).

(d) *Interregional Linkage*

The trade sectors of the three regional models have been specified so as to determine a consistent set of bilateral trade flows and thus to satisfy the world law of conservation when the models are solved together as a world system. This may be shown as follows.

There are nine individual entries in the X matrix and six marginal totals:

$$\begin{matrix} X_{DD} & X_{DC} & X_{DL} & X_D \\ X_{CD} & X_{CC} & X_{CL} & X_C \\ X_{LD} & X_{LC} & X_{LL} & X_L \\ M_D & M_C & M_L & \end{matrix}$$

Total exports and imports of the three regions are proximately determined as follows:

(a) $X_D = X_{DD} + X_{DC} + X_{DL}$

(b) $X_C = Y_C - C_C - I_C - G_C + M_C$

(c) $X_L = Y_L - C_L - I_L - G_L + M_L$

(d) $M_D = X_{DD} + X_{CD} + X_{LD}$

(e) $M_C = X_C$

(f) $M_L = X_L + T_{DL}$

Thus total exports of the developed market economies are demand-determined by import functions in the other economies, whereas total exports of the C and L economies are supply-determined within their own economies. Total imports of the D economies are also demand-determined and vary with the level of domestic GNP, unless a supply constraint is imposed on their materials imports by the L or C regions. Imports of the C and L regions are governed by export proceeds and, in the case of the L economies, also by development grants from the D economies.

Each regional model contains three import equations to provide a breakdown by supplying region:

(i) $X_{DD} = GX_{DD} * Y_D$

(ii) $X_{CD} = GX_{CD} * Y_D$

(iii) $X_{LD} = GX_{LD} * Y_D$

(iv) $X_{DC} = X_{CD}$

(v) $X_{LC} = X_{CL}$

(vi) $X_{CC} = M_C - X_{DC} - X_{LC}$

(vii) $X_{DL} = X_{LD} + T_{DL}$

(viii) $X_{CL} = GX_{CL} * Y_L$

(ix) $X_{LL} = M_L - X_{DL} - X_{CL}$

Import additivity is preserved for each region, since M_D is defined as the sum of (i) - (iii) and X_{CC} and X_{LL} are residuals in the import identities (vi) and (ix) for given values of aggregate imports as determined by expressions (e) and (f) for M_C and M_L.

Export additivity is also preserved, as is obvious for X_D, which is determined by the sum of its components in expression (a). As for the centrally planned economies, total exports X_C are independently determined by expression (b). The accounting identity

$$X_C = X_{CD} + X_{CC} + X_{CL}$$

is nevertheless satisfied, since the left hand side is equal to M_C by expression (e) and the sum of terms on the right hand side also equals M_C through expressions (iv) - (vi). Finally, for the developing regions, we again determine total exports independently by expression (c), but again we find that

$$X_L = X_{LD} + X_{LC} + X_{LL}$$

is satisfied. To see this, substitute for X_{LC} and X_{LD} from (v) and (vii) to obtain

$$X_L = X_{DL} - T_{DL} + X_{CL} + X_{LL} ,$$

which together with (ix) implies

$$X_L = M_L - T_{DL}$$

Thus the sum of component exports from the developing economies is seen to be equal to $M_L - T_{DL}$. The independently determined value of total exports X_L is also equal to $M_L - T_{DL}$ by expression (f), and hence export additivity is satisfied for the L economies.

The trade balances implicit in the system may be stated as follows:

(1) $$B_D = X_D - M_D$$
$$= X_{DD} + X_{DC} + X_{DL} - X_{DD} - X_{CD} - X_{LD}$$
$$= X_{DL} - X_{LD}$$
$$= T_{DL}$$

(2) $$B_C = X_C - M_C$$
$$= X_{CD} + X_{CC} + X_{CL} - X_{DC} - X_{CC} - X_{LC}$$
$$= 0$$

(3) $$B_L = X_L - M_L$$
$$= X_{LD} + X_{LC} + X_{LL} - X_{DL} - X_{CL} - X_{LL}$$
$$= X_{LD} - X_{DL}$$
$$= - T_{DL}$$

Thus the deficit and surplus sum to zero, as they must from the world trade identity $\Sigma X = \Sigma M$.

This particular system is internally consistent and captures some important aspects of the trade relationships which tie the various nations together in a world economy. The assumptions of zero bilateral balances for the external trade of the centrally planned economies and the grant-transfer relation between the D and L regions serve the purpose of closing the system but are somewhat arbitrary. They may be part of the contemporary economic scene but may not persist. Nevertheless, they provide a starting point for the analysis.

5. Concluding Remarks

The model with components put forward in the preceding section gives the essentials for the long term assessment of real growth and related magnitudes. Starting from such a macro model the following concerns appear immediately:

a. disaggregation into economic sectors

b. consideration of alternative technologies or processes

c. geographical disaggregation

d. introduction of market rates

The problems (a) - (c) are approached within the project in the framework of the hierarchical approach which provides methodological foundation. Disaggregated, micro-economic, models are developed in terms of nine sectors, namely,†

1. Agriculture
2. Mining
3. Energy
4. Food
5. Manufacturing
6. Construction
7. Services I
8. Services II
9. Dwellings

Four Sectors:

I - *Food*, containing sectors 1 and 4

II - *Mining and Energy*, containing sectors 2 and 3

III - *Manufacturing*, containing sectors 5 and 6

IV - *Services*, containing sectors 7, 8 and 9

†Thomas Shook, "Implementation of World Micro Economic Model."

and two sectors

A - Food, containing sector I

B - Non-Food, containing sectors II, III and IV.

Questions of alternative technological processes and technology assessment in general is approached by developing appropriate models on the technology stratum, i.e., in terms of actual physical phenomena, and in such a way that it can be used for the production function in the economic stratum. For an actual implementation of that approach for the analysis of the adequacy of the world food supply system we refer to the report on the assessment of the world food situation.†

These problems were approached within the project in the framework of the hierarchical approach which is used as the methodological foundation.

A minimal set of market rates to go along with the system as now structured consists of an interest rate, a wage rate, a price level. These are market rates in the sense that they are all determined in some long run fashion by the tendency to equate demand and supply in the capital market, the labour market, and the goods market. Most of the ingredients of these markets are already available in the present models, namely labour supply and employment, potential supply and demand for output. To complete the market equations money supply will be introduced in a rudimentary financial system. Other market rates to be considered are exchange rates for regional currencies and prices of internationally traded goods.

† J. Richardson, "Scenario Analysis of World Food Supply Situation".

In order to avoid the complications of introducing money and financial sectors only real market rates, the real wage rate and the real interest rate could be used. The real wage rate would be defined as the ratio of the nominal wage rate to the price level and the real interest rate as the difference between the nominal rate and theinflation rate. If all three market variables were determined within the complete system, it would be possible to derive the two real rates, but a short cut may be introduced by defining market processes that determine directly the real wage rate (demand and supply of labour) and the real interest rate (demand and supply of fixed capital).

II. 3. Cobb-Douglas Production Function for the World Model Project and a One Sector Growth Model Interpretation

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I. The Estimates

The Cobb-Douglas Production Law is as familiar to economists as Mendel's "ratios" to the biologist or Einstein's famous formula to the physical scientist. Those who need a serious review are invited to read Senator Douglas' amazing original work [3] or the later work by Brown [2].

Very briefly, for large economic aggregates such as the manufacturing sector of a country - or the entire country - it has been observed that the wage share (and hence the property share) in the value of total production has tended to remain constant over long periods of time and to have a very small variance. For the United States economy this wage share has been calculated to lie in the neighborhood of .67 to .75 (depending on the definitions used for labor compensation and output. A typical sample set of computations for the U.S. can be found in Solow [10]. It should also be noted that Senator Douglas found such constancy to persist when much smaller production units were examined.

The Cobb-Douglas production law stated that the value of output (qt) (stated in constant prices after having subtracted the value of intermediate purchases) is related to aggregate labor input (Lt) and the value of the aggregate stock of capital (Kt) as follows.

1. $q = A(t)L_t^{\alpha} K_t^{1-\alpha} \cdot \eta_t$, where t is a time index, $\ell_n \eta_t$ is a random error which hopefully possesses the Gauss-Markov properties, A(t) is an unspecified function of time reflecting productivity changes. Generally it was assumed that $0 < \alpha < 1$ and that, historically, $\frac{dA(t)}{dt} > 0$ as a rule. A common specification for A(t) was $A(t) = Ae^{\lambda t}$

Douglas, and his associate (Charles Cobb) noted that if competitive forces in an economy were sufficiently strong, we might reasonably expect the value of the marginal product of labor to equal its observed nominal wage. This implied that

$P_t \frac{\partial q_t}{\partial L_t} = w_t$ where P_t = output price at time t and w_t = wage rate.

In the case of the production law (1) this readily translates to

$\alpha P_t \frac{q_t}{L_t} = w_t$ or

2. $\alpha = \frac{W_t \cdot L_t}{P_t \cdot q_t}$ = labor's share at time t.

A test of the hypotheses that 1) strong competitive forces were at work in an economy, and 2) that the production law 1) was operative might be provided by a least squares regression of q_t on L_t and K_t provided suitable data were available. The test could be performed using time series data - assuming an appropriate simple functional form for A(t) would do. Alternatively cross sectional data could be used. Douglas' results for the United States are now well known; regardless of variations in the definition of labor, capital, and output, least squares estimates

of α from (a log linear version) of 1) yielded estimates of α that would have to be considered close to the observed historical labor share.

Attempts to test more general production laws against the Cobb-Douglas law have generally met with failure. An example of one Waterloo can be found in Nerlove [7]. It is not surprising that for the first try we have chosen (1) as the production law for the World Model Project. The advantages are obvious.

1. In economies, where competitive forces are strong, wage share information may provide additional information which can be used to counter the problems created by the scarcity of data points. [The temptation to use formal Bayesian procedures in this case is difficult to resist.] It is expected that in the case of Western Europe, North America and countries such as Japan, Australia, and South Africa this will be an advantage.
2. Even in sectors of the world where competitive forces may be frustrated, the Cobb Douglas law may still work. The only problem here is that labor shares need not be equal to the labor exponent.

Time series are available for this study for eight economic regions:

1. North America - NA
2. Western Europe - WE
3. Eastern Europe - EE
4. Japan - J
5. Latin America - LA

6. Middle East - ME
7. South East Asia - SEA
8. Rest of the Developed World - ROW

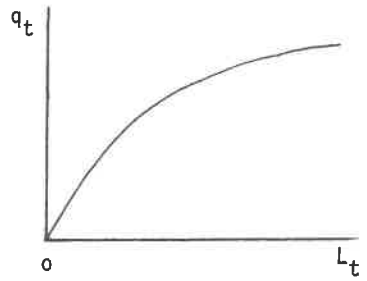
As noted earlier the problem with time series data is that a suitable specification for A(t) must be provided. Unfortunately a simple specification of $A(t) = Ae^{\lambda t}$ will simply not do. Regions experience periods of fast productivity growth and other periods of "slow" growth. Some nations - Japan - experience periods of technological catch-up in which formulations such as $A(t) = Ae^{a_0 t + a_1 t^2}$ would be appropriate. In fact, Japan has posed a relatively minor problem for this study; the major problem has been the identification of discrete breaks for the other regions - in which technical progress A(t) has at first grown quickly and then not quickly; the reverse is also possible.

As noted above the countries for which competitive pressures are strong are not difficult to identify; in this case wage share data - when available - can be used to strengthen the regression results. In some cases, however, we are not without prior knowledge concerning regions where competitive pressures may not be strong. Some of these regions tend to be labor "rich"; SEA, and perhaps ME and LA are examples. It is these cases where we would expect the Cobb-Douglas labor exponent to be low. The Cobb-Douglas serves as a good statistical approximation to a body of data on q_t, L_t, and K_t as long as the sample data are selected from a stable statistical population. However, no one would seriously consider pooling data for North America - a relatively capital rich area, with data for South East Asia. A separate application of equation (1) to NA

and SEA should show the latter area with a much lower labor exponent. To see this observe that it is not unreasonable to assume that

3. $q_t = f(t, L_t, K_t)$

where $\frac{\partial q_t}{\partial L_t}$ and $\frac{\partial q_t}{\partial K_t}$ are positive. It is also usual to assume 3) to be homogeneous of degree one in L_t and K_t. Holding t and K_t fixed a graph of q_t against L_t (varying over a wide range) would show, according to the law of diminishing returns to variable proportions, something like



However, such a graph also implies that for large L_t

$$\frac{\frac{\partial q_t}{\partial L_t}}{\frac{q_t}{L_t}} = \frac{L_t}{q_t} \cdot \frac{\partial q_t}{\partial L_t}$$ to be small.

A check of equation 1 yields $\frac{L_t}{q_t} \cdot \frac{\partial q_t}{\partial L_t} = \alpha$.

As noted above the major estimation problem encountered in estimating the coefficients of 1 from observed data was that of identifying discrete breaks in the rate of growth of A(t). [Given reliable data on wage shares, a confidence that competitive forces are strong, and a confidence in equation (1) this would pose no problem. Such wage share data are available for a number of regions and are being collected for the study; in the meantime we shall have to make do.] For the short term we have used a fairly crude procedure.

1. Simple Cobb-Douglas estimates of 1. were prepared for all regions using the assumption that $A(t) = Ae^{\lambda t}$. These least squares estimates were as a rule unsatisfactory.
2. Graphs of $[q_t/(L_t^{\alpha} K_t^{1-\alpha})] = A(t)$ were prepared using assumed values of $\alpha = \{.6, .65, .7, \text{and } .75\}$. [These assumed values are admittedly too high for the labor rich countries.] On the basis of these graphs discrete breaks in A(t) were inferred.

A single discrete break in A(t) if it is of the (log) linear sort in t can only be represented as $A(t) = e^{a_0 t + a_1 \, dm + a_2 \, dm \, . \, t}$ where dm is a "dummy varible" which takes a value of 0.0 before the break and 1.0 thereafter. For any time series sample two degrees of freedom are lost in accounting for the break. We end this paragraph by noting that if competitive forces are strong and (1) is an appropriate specification, the search on $\alpha = \{.6, .65, .7, \text{and } .75\}$ is a very good device for identifying structural shifts; if the exponents are stable, the shift can only occur in A(t).

The preliminary results are presented in Table I below. The "t" statistics are reproted parenthetically; R^2, s, standard errors and Durbin-Watson Statistics are also reported. [Graphs of actual q_t against predicted q_t from the regressions are given in the Appendix.] Some preliminary comments can be made. Note that 1) may be written as

1a. $\dfrac{q_t}{L_t} = A(t) \left(\dfrac{L_t}{K_t}\right)^{\alpha} n_t$, since 1) is homogeneous of degree one in L_t and K_t. The equations by region were estimted in log linear form. Discrete breaks, when identified, are indicated in Table I. We note that discrete breakes were found for all regions except Japan and South East Asia. The stricking result for Japan was the accelerated growth in A(t);

the "t" statistic of 3.3 cannot be ignored, especially given prior knowledge. Generally, the labor exponents are as expected as far as signs. The labor exponent for Japan was .575 and the observed labor share in 1960 was .52. See Morishima and Saito [6]. The labor rich countries have low coefficient estimates and the labor "poor" countries high coefficients - too high in fact for North America and Western Europe. We suspect the problem here is probably related to data. Fortunately, in the case of these areas labor share data is available. Also, in the case of North America a rich body of alternative data on q_t, L_t, and K_t can be used. The well known Cobb-Douglas study of Knowles [4] for the U.S. economy suggests corrective measures. We note here that McCarthy's [5] refinement of Knowles' U.S. study yielded a labor exponent of about 2/3. At this point, rather than using labor share data it is our intention to begin by revising the data on K_t, and perhaps on the other variables. In the case of Western Europe it may be necessary to resort to labor share data. Edward F. Denison has suggested that, for the time being, we assume $\alpha = .8$ for both North American and Western Europe on the basis of his labor share calculations. (Personal Communication.) These calculations may be slightly revised on the basis of detailed material in Denison. Finally, we note that the time trend slopes appear to be positive as a rule with the exception of South East Asia; this is not surprising. [The quadratic time trend in the case of Japan requires special interpretation.]

II. One Sector Growth Model of the World Model

It is of some interest to note that the individual region equation systems without the foreign sector equations have a legitimate interpretation as belonging to a class of well known one sector growth models developed in the late 1950's and early 1960's. Examples of these growth models can be found among the work of Solow [9] and Phelps [8]. We present the Phelps version here. We suppose that the production function is given by (1) and add the following equations

4. $L_t = L_o e^{nt}$ where $L_o > 0$ and $n > 0$

5. $I_t = s\, q_t$, and

6. $\frac{\dot{K}}{K_t} = \frac{I_t}{K_t} - \delta.$

Equation 4 is a longrun full employmentsupply curve where the rate of proportional growth in the labor force is given by n. It is noted that n is taken as a policy (or control variable in the World Model as are parameters such as $S > 0$, which enters the gross investment demand curve, equation 5. Defining $\dot{K}$ as the time derivative of K_t, equation 6 merely gives the rate of proportional change in K_t under the assumption that the net stock of capital is subject to geometric decay depreciation due to deterioration and obsolence. [Phelps' capital variable $J(t)$ is easily rewritten to satisfy this assumption.] In what follows $\dot{q}$, and $\dot{L}$ will also be taken as time derivatives of their associated variables. Note that $\frac{\dot{L}}{L} = n$.

Total differentiation of 1 and arranging term yields

$$\frac{\dot{q}}{q} = \lambda + \alpha \frac{\dot{L}}{L} + (1 - \alpha) \frac{\dot{K}}{K} \quad \text{or}$$

1b. $$\frac{\dot{q}}{q} - \frac{\dot{k}}{k} = \lambda + \alpha \eta - \alpha \frac{\dot{K}}{K}.$$

Using 6 and then 5 in 1b yields

$$d\, \ell n(q_t/K_t) = \lambda + \alpha(\eta + \delta) - \alpha s \frac{q_t}{K_t} \quad \text{or}$$

1c. $$d\, \ell n(q_t/K_t) = a_0 - a_1 \frac{q_t}{K_t} \quad \text{where}$$

$$a_0 = \lambda + \alpha(\eta + \delta) > 0 \text{ assuming } \eta + \delta > 0, \text{ and } a_1 = \alpha s > 0.$$

Solution of this simple first order difference equation yields the conclusion that $d\, \ell n(q_t/K_t) = 0$ in the long run or equivantly

7. $\frac{\dot{q}}{q} = \frac{\dot{K}}{K}$. Substitution of $\frac{\dot{q}}{q}$ for $\frac{\dot{K}}{K}$ into 1b. immediately yields $\frac{\dot{q}}{q} = \alpha^{-1}(\lambda + \alpha \eta)$. Also the rate of proportional growth in output per labor unit $\frac{\dot{q}}{q} - \frac{\dot{L}}{L} = \lambda$. In short, the rate of economic growth is <u>independent</u> of the savings rate (S) in the long run.

This section on the Solow-Phelps model is not included in this paper as an intellectual curiosity. It is important to recognize at an early stage the consequences of seemingly innocent assumptions. Taking equations 4, 5, and 6 as given the independence of growth rates from the savings rate is a consequence of the Cobb-Douglas assumption. Above we note the Cobb-Douglas may be a suitable approximation assuming that the data points

are taken from a suitably homogeneous sample. We also note that North America and South East Asia would not really be considered homogeneous. Another way of putting this that over very wide data ranges the Cobb-Douglas exponents may not be safely assumed to be constants. [The fact that the labor elasticates for the labor "rich" regions seemed to be low relative to their capital rich counterparts is certainly suggestive in this case.] What this seems to suggests that for hyper-long future forecasts that a more general production function would be appropriate; perhaps a CES function should be used. [See Arrow, et. al. [1].

We close by noting that even if the Cobb-Douglas assumption is correct and rates of growth are independent of the savings rate, it is obvious that the solution of lc will show that the level of the growth path of q_t will depend on the choice of s. The choice of a higher s will yield a higher growth path level. To the extent that regions do have some freedom in their choice of s they may vary their growth paths. To us, it seems intuitively clear that the capital rich regions have somewhat greater freedom in this area.

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EASTERN EUROPE

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_o + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_{3(Dummy)} + a_4 t_{(Dummy)}$$

[-6.0615] [4.4009] [4.2907] [-1.6695] [.82999]

a_o =1.3917 a_1 = .4565 a_2 = .0143 a_3 = -.1476 a_4 = .0048

Break in 1963

R^2 = .8969 S.E.E. = .0261 D.W. = 1.3833

REST OF DEVELOPED WORLD

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_o + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_{3(Dummy)} + a_4 t_{(Dummy)}$$

[-12.9307] [3.3001] [4.5661] [.25649] [.06357]

a_o = -1.7100 a_1 = .6294 a_2 = .0180 a_3 = .0064 a_4 = .0001

Break in 1961

R^2 = .952855 S.E.E. = .0110 D.W. = 2.1689

JAPAN

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_o + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_3 t^2$$

[-2.6547] [2.4882] [-0.4657] [3.2901]

a_o= -2.1203 a_1 = .5752 a_2 = -.0068 a_3 = .0017

R^2 = 97718 S.E.E. .0297 D.W. = 1.0203

TABLE I

Cobb-Douglas Estimates

WORLD MODEL PROJECT

WESTERN EUROPE

Eqn:

$$\ln\left(\frac{qt}{Lt}\right) = a_o + a_1\left(\ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_{3(\text{Dummy})} + a_4 t_{(\text{Dummy})}\right.$$

[-9.9241] [7.7501] [4.4960] [-4.0251] [4.4873]

$a_o = -2.3013$ $a_1 = .8794$ $a_2 = .0213$ - $a_3 = .1539$ $a_4 = .0170$

Dummy from 1960

$R^2 = .9991$ S.E.E. = .0075 D.W. = 2.2608

MIDDLE EAST

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_o + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_{3(\text{Dummy})} + a_4 t_{(\text{dummy})}$$

[-4.0761] [2.8380] [3.7319] [4.4487] [-4.9290]

$a_o = -1.3977$ $a_1 = .3045$ $a_2 = .0242$ $a_3 = .2947$ $a_4 = -.0195$

Break at 1964

$R^2 = .8380$ S.E.E. = .0126 D.W. = 2.0019

SOUTH EAST ASIA

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_0 + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t$$

$$[-1.70466] \quad [-1.5973] \quad [-3.85597]$$

$$a_0 = -2.4514 \quad a_1 = .2024 \quad a_2 = -.0146$$

$$R^2 = .9736 \qquad S.E.E. = .0212 \qquad D.W. = .9789$$

NORTH AMERICA

Eqn:

$$\ln\left(\frac{qt}{Kt}\right) = a_0 + a_1 \ln\left(\frac{Lt}{Kt}\right) + a_2 t + a_{3(Dummy)} + a_4 t_{(Dummy)}$$

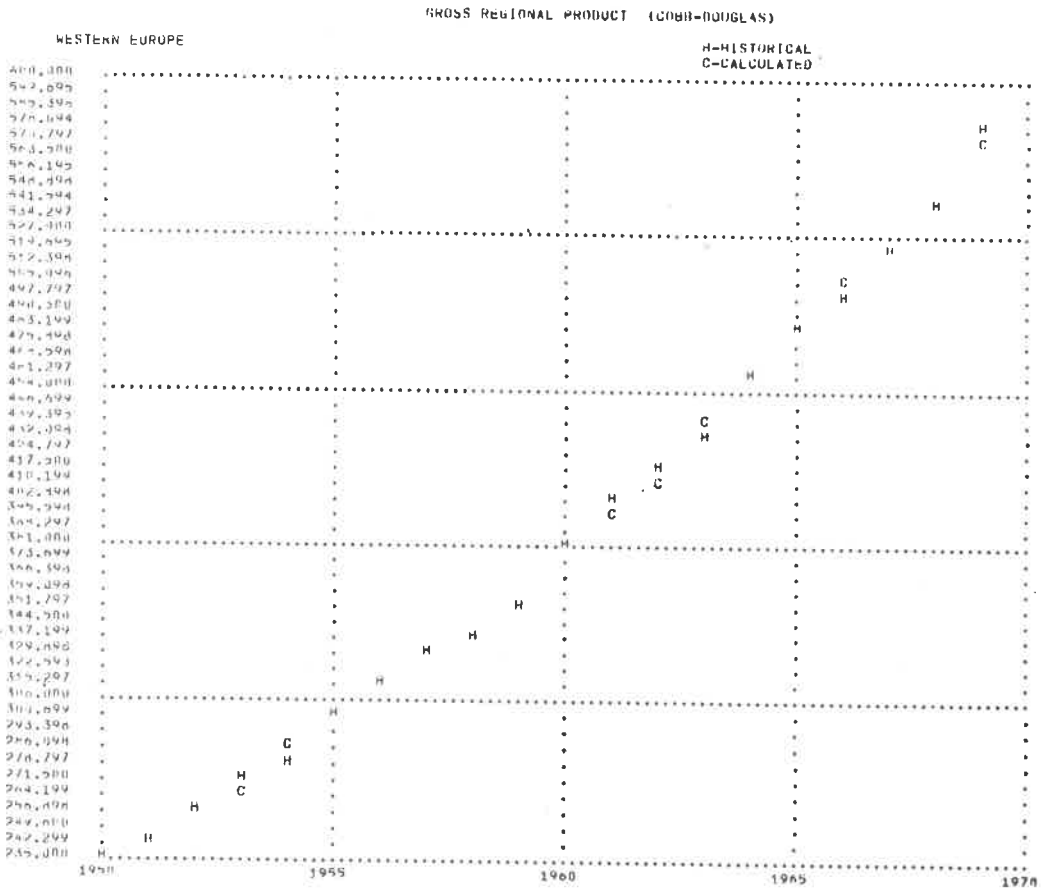
$$[-24.3674] \quad [4.3268] \quad [5.72828] \quad [-1.61474] \quad [1.34857]$$

$$-1.1316 \qquad 1.3906 \qquad .0291 \qquad -.0636 \qquad .0045$$

Break at 1960

$$R^2 = .9740 \qquad S.E.E. = .0161 \qquad D.W. = 1.7118$$

DATA APPENDIX AND GRAPHS OF ACTUAL AND PREDICTED OUTPUTS FROM THE REGRESSIONS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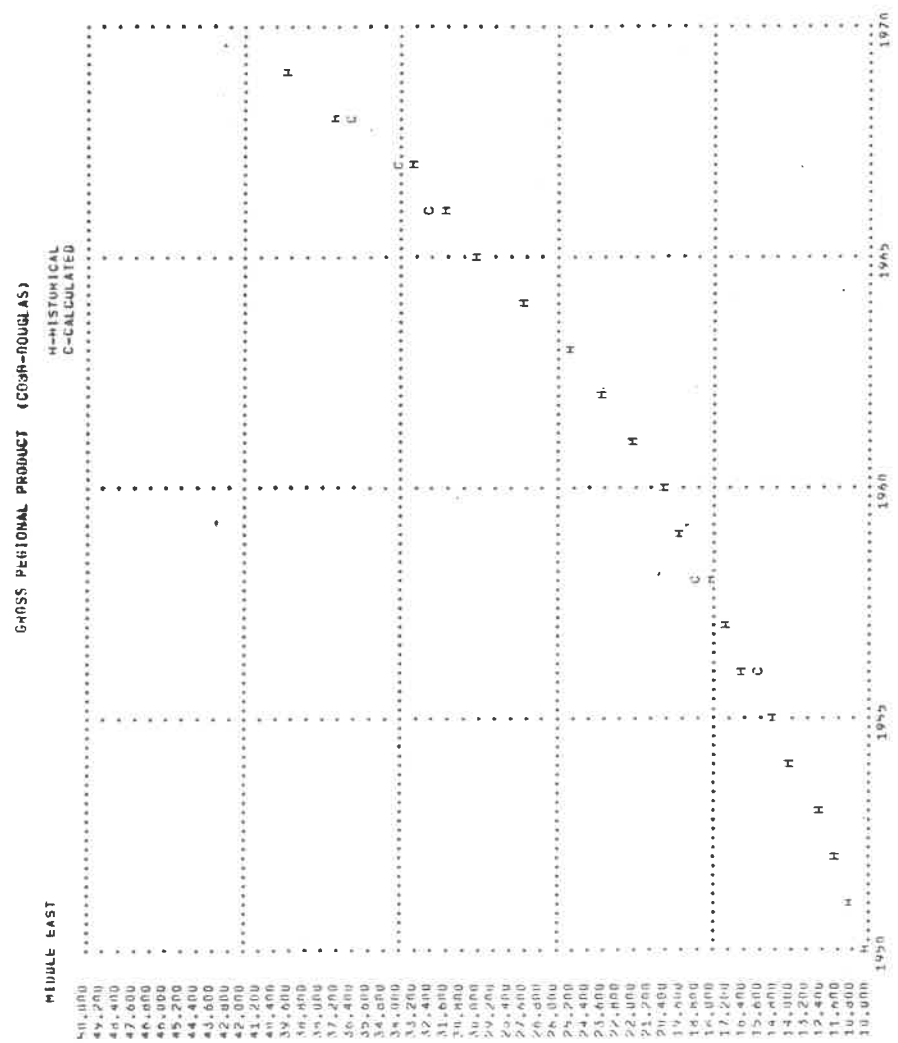
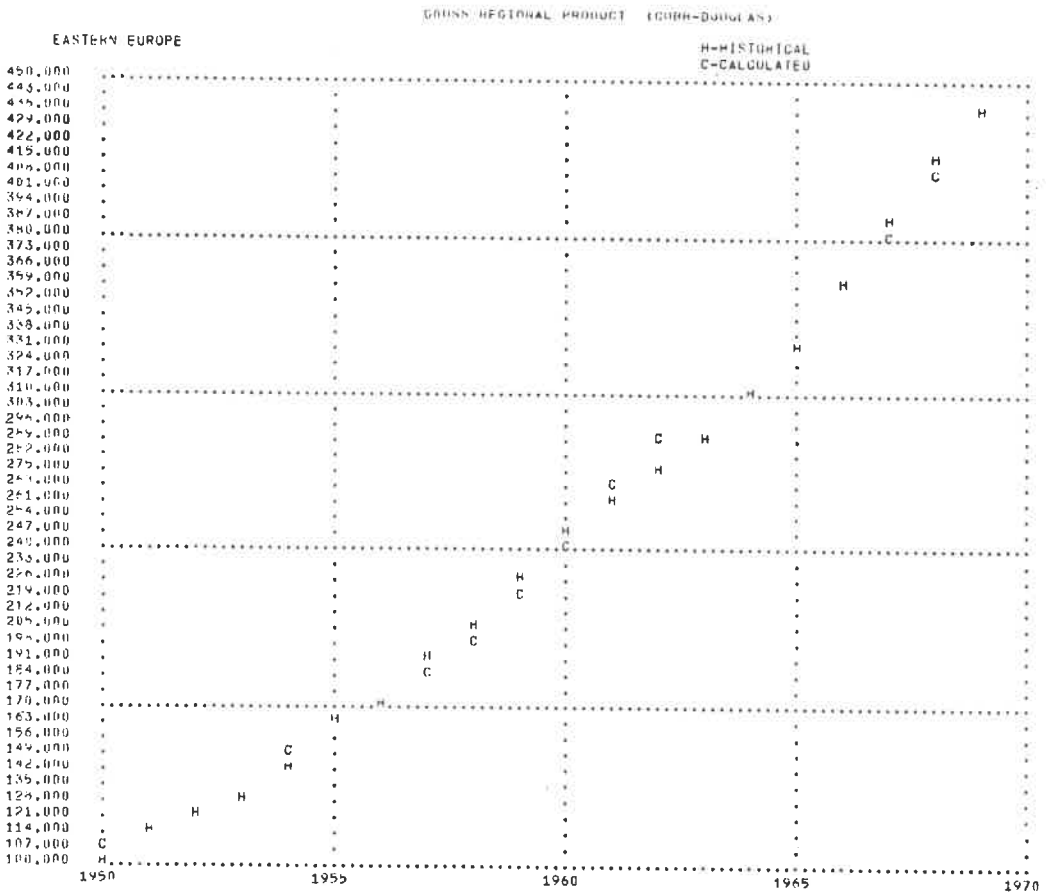
WESTERN EUROPE
H-HISTORICAL
C-CALCULATED
1950
1955
1960
1965
1970


GROSS REGIONAL PRODUCT (COBB-DOUGLAS)
H-HISTORICAL
C-CALCULATED
MIDDLE EAST
1950
1955
1960
1965
1970


GROSS REGIONAL PRODUCT (COBB-DOUGLAS)
EASTERN EUROPE
H-HISTORICAL
C-CALCULATED
450.000
443.000
436.000
429.000
422.000
415.000
408.000
401.000
394.000
387.000
380.000
373.000
366.000
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163.000
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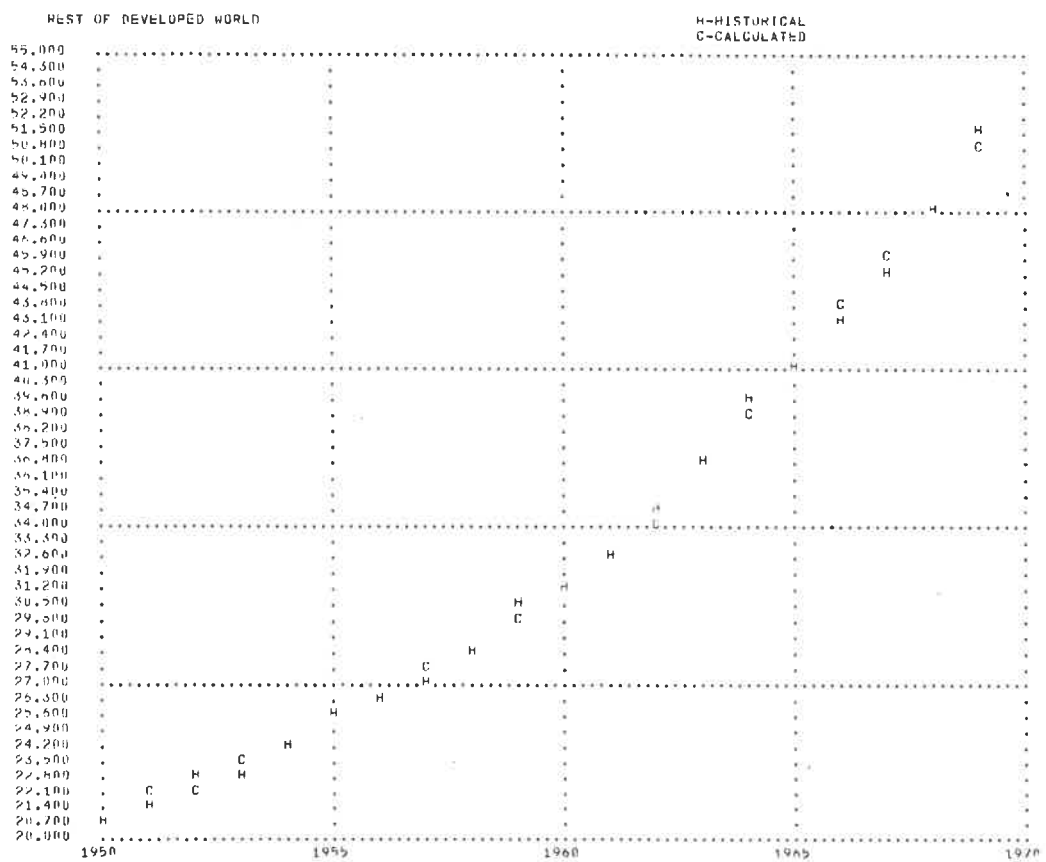
121.000
114.000
107.000
100.000
1950
1955
1960
1965
1970


GROSS REGIONAL PRODUCT (COBB-DOUGLAS)
REST OF DEVELOPED WORLD
H-HISTORICAL
C-CALCULATED
55.000
54.300
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52.900
52.200
51.500
50.800
50.100
49.400
48.700
48.000
47.300
46.600
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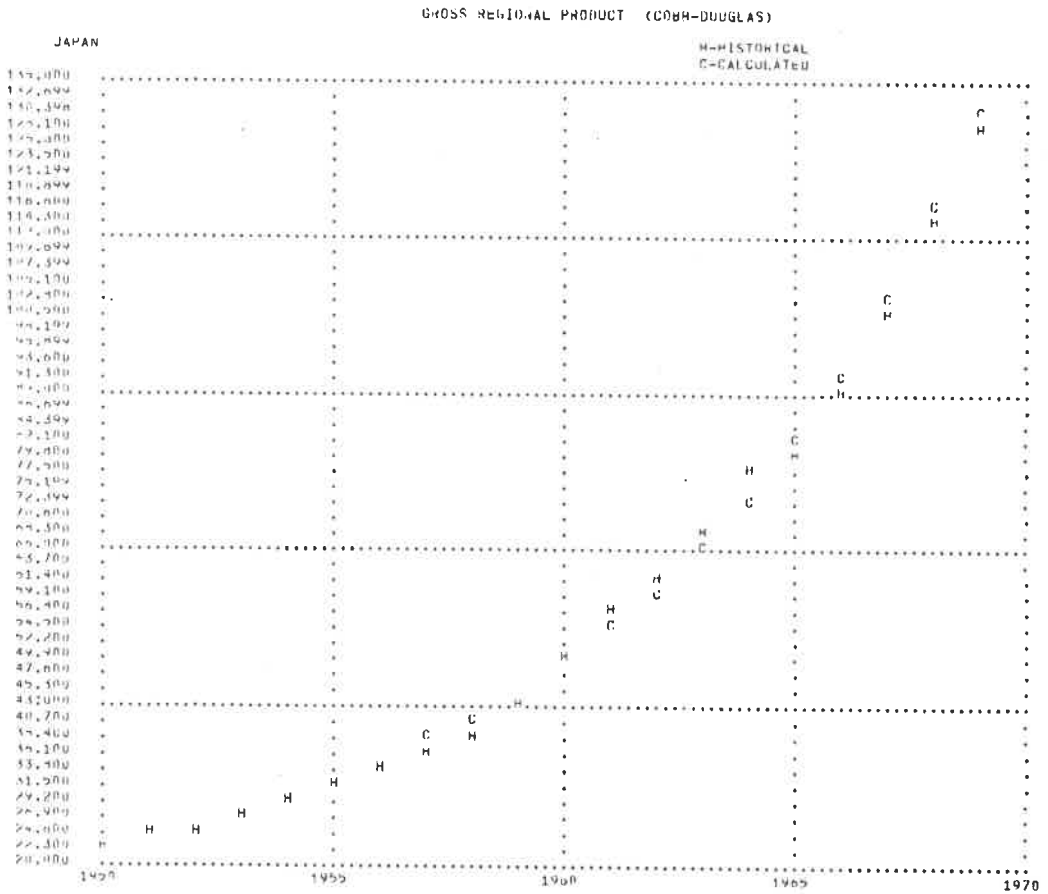
1950
1955
1960
1965
1970


GROSS REGIONAL PRODUCT (COBB-DOUGLAS)
JAPAN
H-HISTORICAL
C-CALCULATED
1950
1955
1960
1965
1970

MIDDLE EAST

YEAR	Output	Capital	Labor	Predicted Output
1950	10.5000	17.1001	527.2969	10.6023
1951	11.2700	18.1111	532.2969	11.3381
1952	12.2900	19.2041	547.7031	12.2056
1953	13.0401	20.4150	554.2031	13.0959
1954	14.0900	21.7009	561.6016	14.0568
1955	15.3700	23.0911	569.0000	15.0978
1956	16.3899	24.6311	577.0000	16.2483
1957	17.4099	26.3569	585.0000	17.3391
1958	18.4399	28.0439	592.7969	18.8220
1959	19.7200	29.6621	566.3984	19.7756
1960	21.0000	31.2451	545.5000	20.7454
1961	22.0200	33.4121	540.8984	22.3123
1962	24.0701	35.7158	544.6016	23.9685
1963	25.6101	38.1660	545.5000	25.6443
1964	27.9099	41.1956	547.6016	27.8120
1965	30.4800	44.3672	588.2969	30.0732
1966	32.0098	48.0078	619.7969	32.4307
1967	33.8101	51.8560	629.7031	34.5459
1968	37.3901	56.0942	648.2031	36.9834
1969	40.2100	60.7710	684.2969	39.9409

EASTERN EUROPE

YEAR	Output	Capital	Labor	Predicted Output
1950	103.8404	161.5996	1348.9063	107.3916
1951	115.4004	171.6398	1399.7969	114.5596
1952	124.0596	183.4492	1455.5937	122.5830
1953	132.7109	195.9668	1504.9062	130.8672
1954	147.1406	209.3359	1907.9062	153.3457
1955	164.4492	225.1035	1950.2031	163.4453
1956	175.9902	243.6484	2014.7969	175.6855
1957	193.3008	266.0937	2082.4062	189.7988
1958	210.6094	290.7852	2126.9062	204.0078
1959	230.8008	320.9844	2159.1875	221.2637
1960	248.1094	354.7500	2349.0000	244.7383
1961	265.4219	391.8125	2525.3125	270.8437
1962	276.9609	429.6836	2581.3125	291.7852
1963	288.5000	470.0547	2630.5938	289.3672
1964	314.4687	508.5977	2712.5938	312.2109
1965	331.7812	550.4062	2785.4062	336.2461
1966	360.6289	590.0234	2853.4062	359.8789
1967	389.4805	633.7734	2916.5000	385.2031
1968	415.4414	681.1406	2982.0000	412.4961
1969	435.6406	730.2187	3039.4062	440.4883

REST OF DEVELOPED WORLD

YEAR	Output	Capital	Labor	Predicted Output
1950	21.3000	74.7998	146.0996	20.9980
1951	21.7500	77.3018	151.8008	22.0354
1952	22.7900	79.8623	150.3008	22.6941
1953	23.2300	82.6094	150.8008	23.5100
1954	24.6399	85.3584	152.4004	24.4070
1955	25.7900	88.5684	157.0000	25.5916
1956	26.5701	91.8770	159.0996	26.6606
1957	27.2400	95.0908	162.1992	27.7991
1958	28.9500	98.5127	164.3008	28.9319
1959	30.4760	102.2363	167.4004	30.2109
1960	31.7700	106.2744	172.0996	31.6877
1961	32.7300	110.6670	171.0996	32.8462
1962	34.6602	114.8945	176.8008	34.4932
1963	37.1099	119.3906	184.5996	37.1563
1964	39.7402	124.7383	192.4004	39.2656
1965	41.4102	131.4238	199.1992	41.5195
1966	43.4600	138.6563	203.8008	43.7827
1967	45.3901	145.7129	205.9004	45.8350
1968	48.3501	152.7480	216.1992	48.3662
1969	51.5801	160.3320	221.0000	51.0996

JAPAN

YEAR	Output	Capital	Labor	Predicted Output
1950	24.0500	27.2000	837.2031	23.3152
1951	25.2400	30.9819	847.6016	24.7764
1952	26.5701	34.6872	872.6016	26.5466
1953	27.9399	38.9292	920.8984	28.8418
1954	29.9800	43.0972	938.6016	30.7173
1955	32.7100	47.6948	966.2031	33.0127
1956	35.4302	52.3921	1004.1016	35.6855
1957	38.1602	58.3750	1024.9062	38.5435
1958	40.2002	65.3164	1027.5000	41.4199
1959	43.6099	72.3984	1049.4063	44.9658
1960	49.7402	81.4990	1085.7969	49.6797
1961	57.9199	92.7197	1049.9062	54.3701
1962	61.3301	108.1504	1086.7969	60.1182
1963	68.1396	124.1094	1098.9062	66.4287
1964	77.6797	141.9512	1098.2031	73.8320
1965	81.0898	163.0527	1098.7969	82.1211
1966	89.2598	183.7012	1124.2031	92.0820
1967	101.5303	206.9004	1140.9062	103.1172
1968	115.8398	235.7168	1157.5000	116.4249
1969	130.1504	270.8672	1150.7969	130.8574

SOUTH-EAST ASIA

YEAR	Output	Capital	Labor	Predicted Output
1950	51.6299	62.5000	4725520.0000	51.5713
1951	53.3799	65.9238	4951904.0000	53.4956
1952	55.1299	69.2695	5117504.0000	55.2529
1953	56.5000	72.9697	5449600.0000	57.9053
1954	61.2500	76.7744	5706992.0000	59.9600
1955	63.6000	81.3193	6072256.0000	62.2109
1956	66.5000	86.7451	6307072.0000	65.0449
1957	67.3799	93.5762	6500672.0000	66.5127
1958	70.0000	100.4023	6700416.0000	71.8555
1959	72.6299	107.1924	6929728.0000	75.1143
1960	77.0000	114.0761	7097792.0000	78.1699
1961	80.5000	120.6777	7417472.0000	81.2891
1962	83.1299	126.3379	7494208.0000	84.3135
1963	87.5000	130.2148	7624960.0000	87.4375
1964	92.7500	145.0156	7835008.0000	91.0762
1965	92.7500	154.0410	8048192.0000	94.6934
1966	96.2500	163.5469	8284736.0000	98.4579
1967	103.2500	173.1230	8522752.0000	102.1152
1968	106.7500	183.3555	8773632.0000	105.9668
1969	114.6299	194.6750	8987392.0000	109.9629

II. 4. Computer Implementation of World Macro Economic Model

A. Erdilek, P. Gille, K. Kominek, C. Loxley,
R. Pestel, T. Shook, W. Strobele

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2.	Some Results of Validation Test	B 72
3.	Comparison of Model Parameters and Historical Data	B 145
4.	Computer Program Listings	B 217

1. Basic Assumptions

The macro economic model of the regionalized world system as specified by Mesarovic, Klein and Hickman[†] has been implemented using extensive set of data to estimate the required parameters. The data base is fully documented in the project report by Strobele, Erdilek and all[††] while the results of some most challenging estimation to problems are reported by M. McCarthy and G. Shuttic[†††].

Several versions of the model have been designed, implemented and validated. They differ primarily in the alternative ways how some functions within the model have been specified and the way the interregional linkages have been implemented. In particular, the following versions of the model have been estimated from the data and validated by comparison with historical information:

(i) The production functions are specified by means of capital output ratio

$$Y = Q * K$$

(ii) The production functions are specified in the Cobb-Douglas form

$$Y = A * L^{\alpha} * K^{\beta}$$

(iii) The regional exports are given in terms of the total world output

$$X = GX * WY$$

[†]M. Mesarovic, L. Klein, B. Hickman, "Specification of Structure for a Macro-Economic World Model".

[††]W. Strobele, A. Erdilek, et. al., "Economic Data Base for Regionalized Multilevel World Model".

[†††]M. McCarthy and G. Shuttic, "Cobb-Douglas Production Function for the World Model Project and a One Sector Growth Model Interpretation".

where $WY = \sum_{i=1}^{10} Y_i$

(iv) The regional exports are given in terms of the total world trade

$$X = GX * WT$$

where WT is the sum of all exports or imports, $WT = \sum_{i=1}^{10} X_i = \sum_{i=1}^{10} M_i$.

(v) The exports of developed regions are given in terms of world output or world trade while the centrally planned and developing regions essentially follow a balanced trade path except for the foreign aid.

(vi) The interregional linkage is determined by the world trade matrix whose time trade is estimated from the data.

All of these versions agree with the historical data to a satisfactory degree of accuracy. The selection which one to use therefore cannot be based on the test of validation by data but rather on the purpose for which the model is used; e.g. the types of scenario which will be evaluated.

As an illustration the performance of the world macro model is compared with the historical data in the tables and graphs which follow. The definitions of the variables are:

CC - Consumption as computed by the model

HC - Consumption as given by historical data

CI - Investment as given by historical data

HI - Investment as given by historical data

CG - Government expenditure as given by historical data

HG - Government expenditure as given by historical data

CY - Output as given by historical data

HY - Output as given by historical data

CX - Export as given by historical data

HX - Export as given by historical data

CM - Import as given by historical data

HM - Import as given by historical data

The world trade matrix, as it changes over time is also given in the subsequent table followed by the computer program which fully specifies the model and can be used for computer implementation.

There is yet another way how the validity of the model can be tested, namely, by comparing with the historical data, the values of the parameters as used in the model and how they change in time. This is presented in the tables and graphs which follow. The comparisons also provide a useful insight into the consistency or time trends in the parameters, e.g. saving ratio GI, the propensity to consume GC etc. The constancy or regularity of these changes indicates strongly that the structure selected is well suited to the actual system modeled. The changes can be interpreted quite nicely by the policy decisions as actually recorded in historical period under consideration; e.g. the steady rise in GI for Japan and Western Europe, etc.

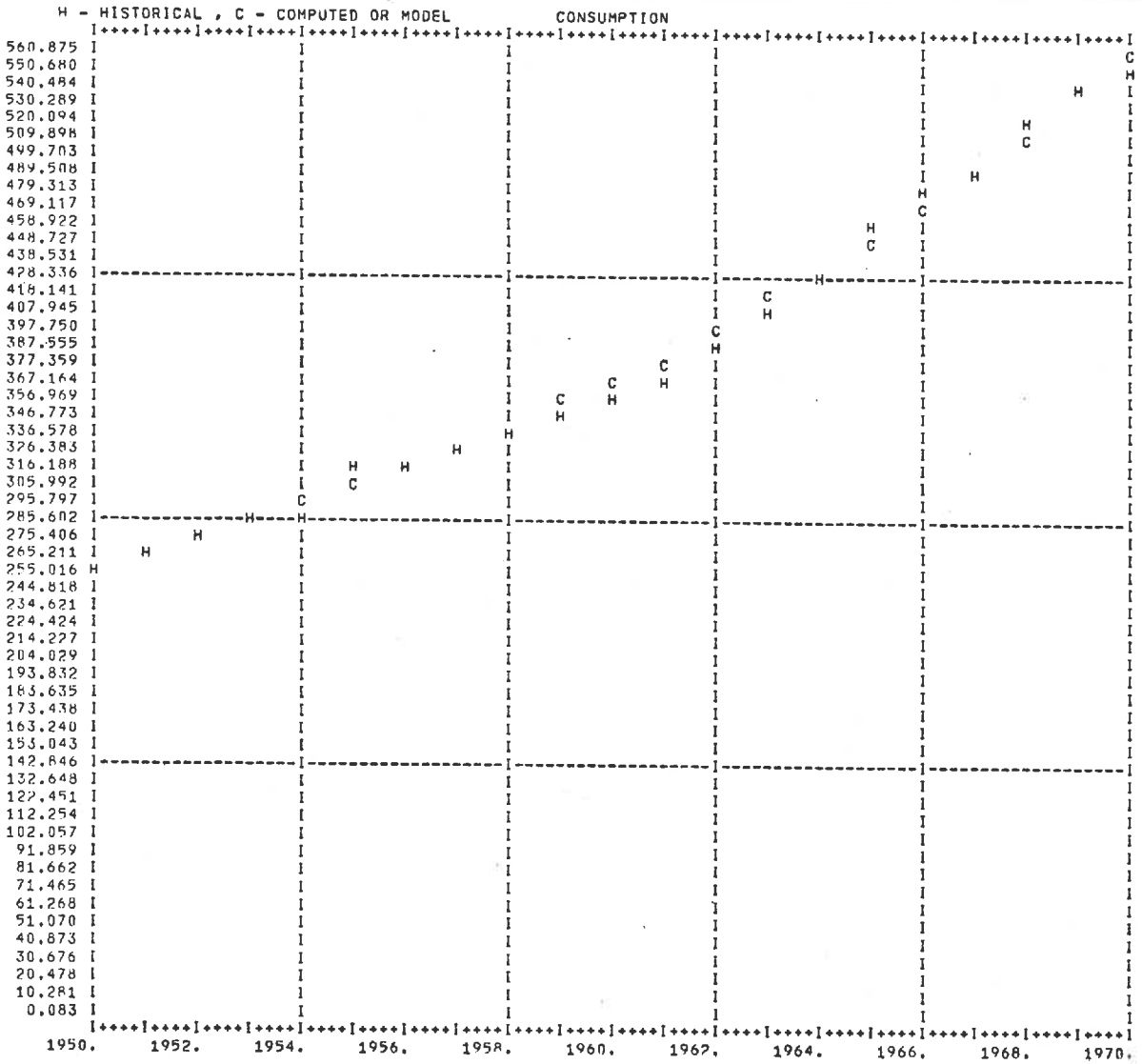
2. Some Results of Validation Test

TABLE

NORTH AMERICA 1

	CC	HC	CI	HI	CG	HG
1950	255.703	259.258	76.020	79.796	80.172	56.889
1951	264.391	263.309	78.149	78.703	82.572	84.148
1952	273.531	271.410	80.379	77.610	85.096	101.926
1953	283.133	283.562	82.716	81.983	87.738	107.852
1954	293.242	287.613	85.166	84.169	90.514	96.000
1955	303.875	311.918	87.738	92.914	93.432	93.630
1956	315.078	320.020	90.438	96.193	96.500	93.630
1957	326.883	328.121	93.275	95.100	99.725	98.371
1958	339.352	332.172	96.256	90.727	103.123	100.741
1959	352.500	348.379	99.396	98.379	106.705	101.926
1960	366.398	360.527	102.699	98.379	110.479	103.112
1961	381.094	368.633	106.182	97.286	114.463	109.037
1962	396.656	388.887	109.854	104.938	118.672	116.149
1963	413.125	405.090	113.730	109.310	123.117	118.519
1964	430.586	429.395	117.824	116.962	127.822	120.889
1965	449.109	457.750	122.152	127.693	132.805	124.445
1966	468.773	478.004	126.730	135.545	138.078	141.037
1967	489.680	494.211	131.582	133.357	143.676	155.260
1968	511.922	518.516	136.723	142.104	149.621	160.000
1969	535.609	538.766	142.180	146.475	155.938	160.000
1970	560.875	546.867	147.975	142.104	162.660	156.445
ERROR	6.74493		4.66229		9.35010	

	CY	HY	CX	HX	CM	HM
1950	413.391	401.438	19.610	19.425	18.116	17.387
1951	426.547	439.668	20.555	23.090	19.132	18.724
1952	440.355	452.410	21.560	22.357	20.215	20.062
1953	454.852	471.527	22.631	21.624	21.371	22.068
1954	470.082	465.156	23.771	22.357	22.611	21.065
1955	486.102	503.387	24.988	24.556	23.933	24.074
1956	502.957	509.762	26.285	28.221	25.351	26.080
1957	520.703	522.508	27.669	30.053	26.854	26.749
1958	539.398	516.133	29.149	27.121	28.491	26.749
1959	559.117	547.992	30.731	27.854	30.219	30.092
1960	579.922	560.734	32.423	31.519	32.084	29.758
1961	601.891	573.477	34.235	31.886	34.093	29.424
1962	625.125	611.711	36.177	34.085	36.233	32.433
1963	649.688	637.203	38.259	36.650	38.543	33.436
1964	675.703	669.062	40.495	41.415	41.030	35.777
1965	703.266	713.664	42.895	42.514	43.688	39.789
1966	732.492	764.641	45.476	46.546	46.570	45.807
1967	763.531	783.758	48.253	49.111	49.665	48.817
1968	796.508	821.984	51.246	53.876	53.011	55.504
1969	831.594	847.477	54.473	57.174	56.621	59.850
1970	868.945	841.102	57.956	61.939	60.523	60.519
ERROR	17.67139		1.93181		2.54190	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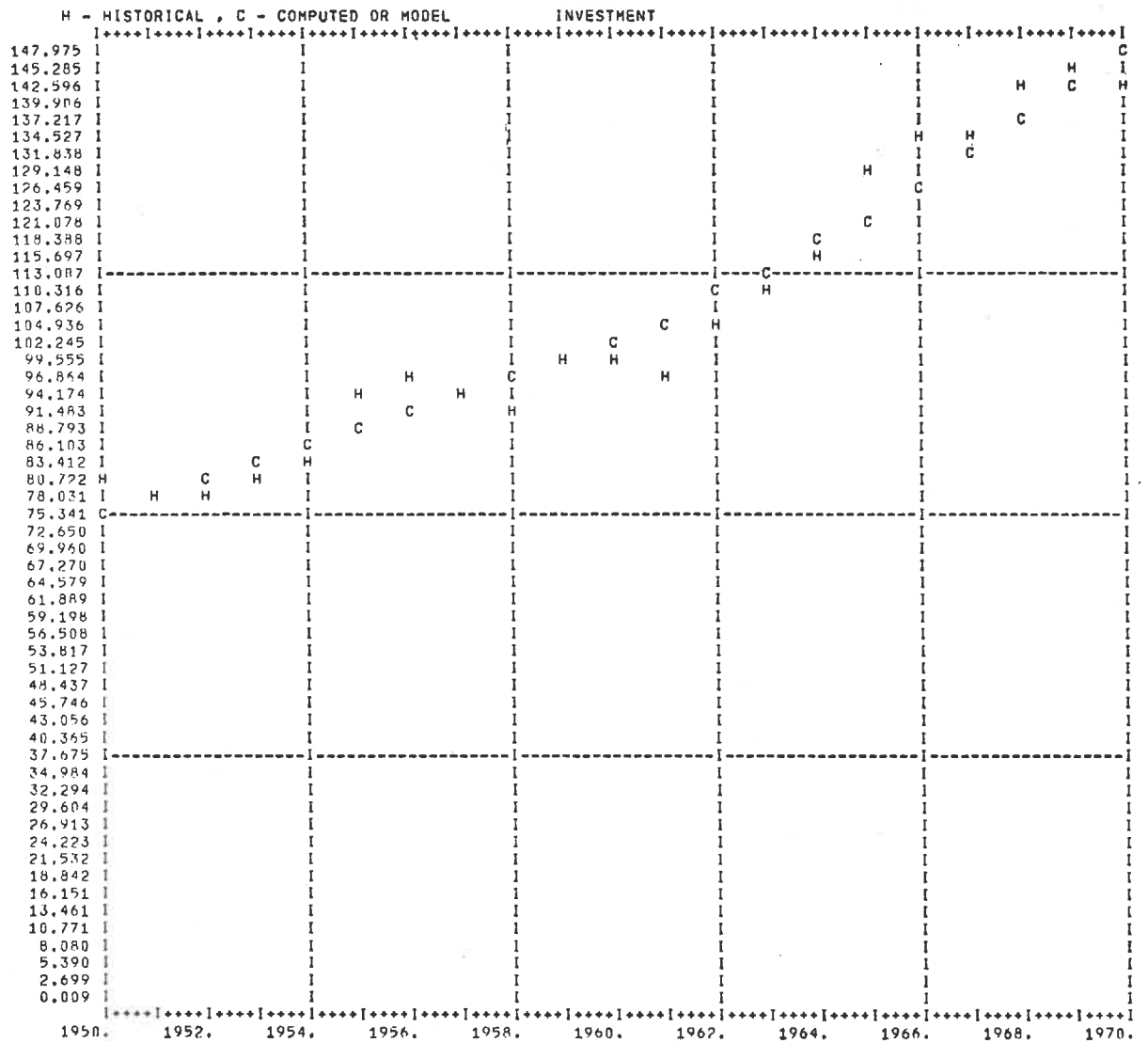
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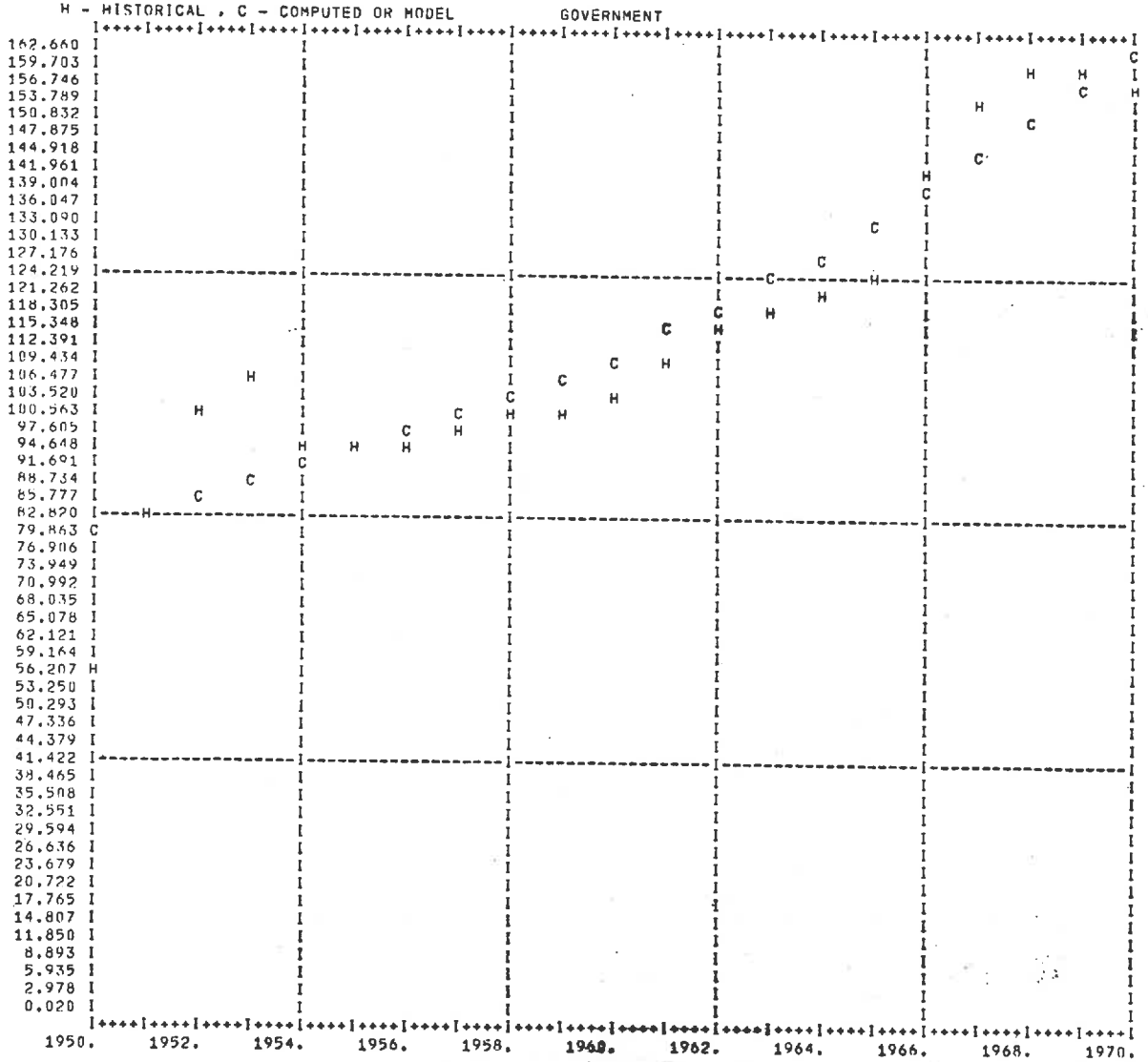
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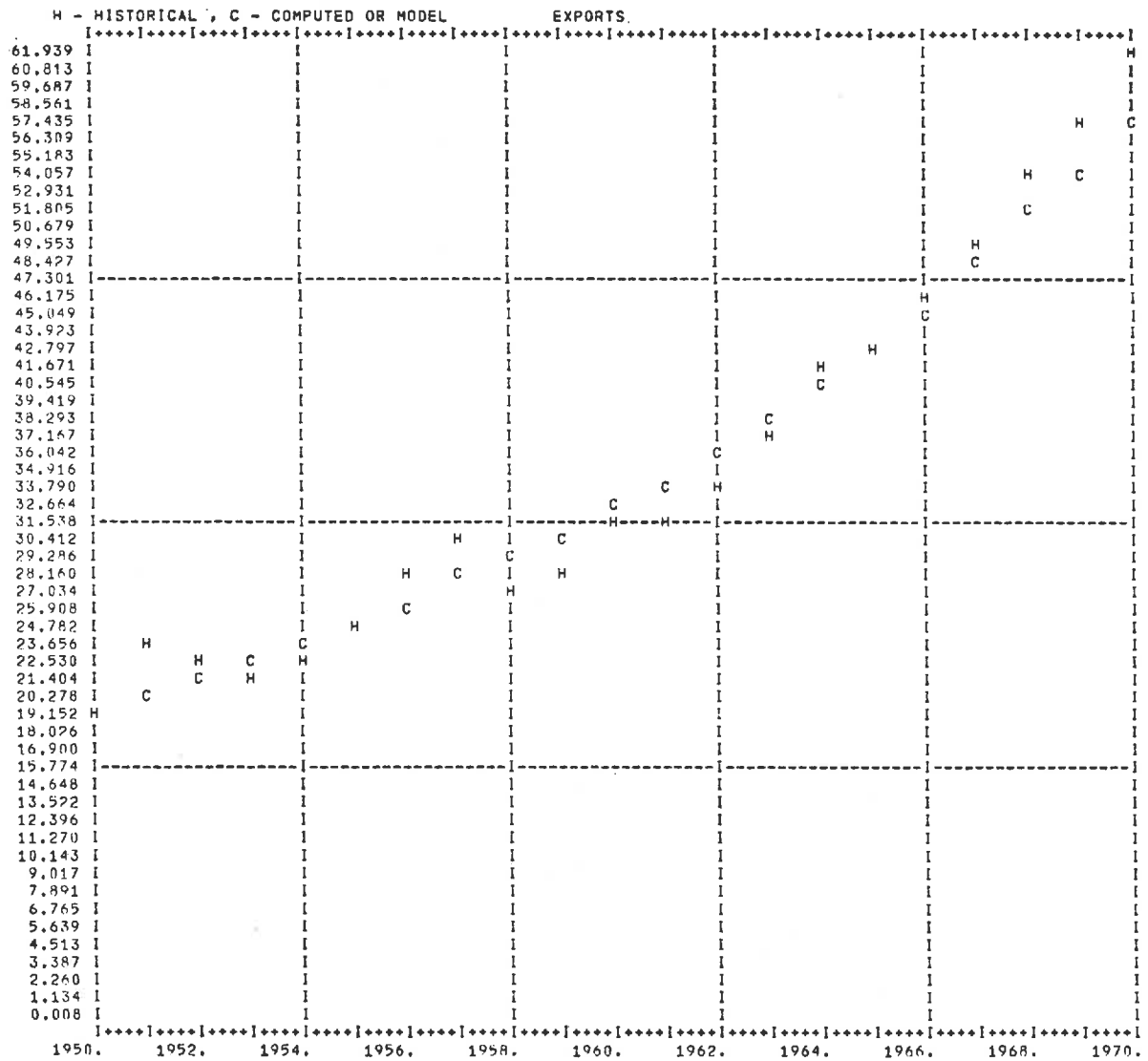
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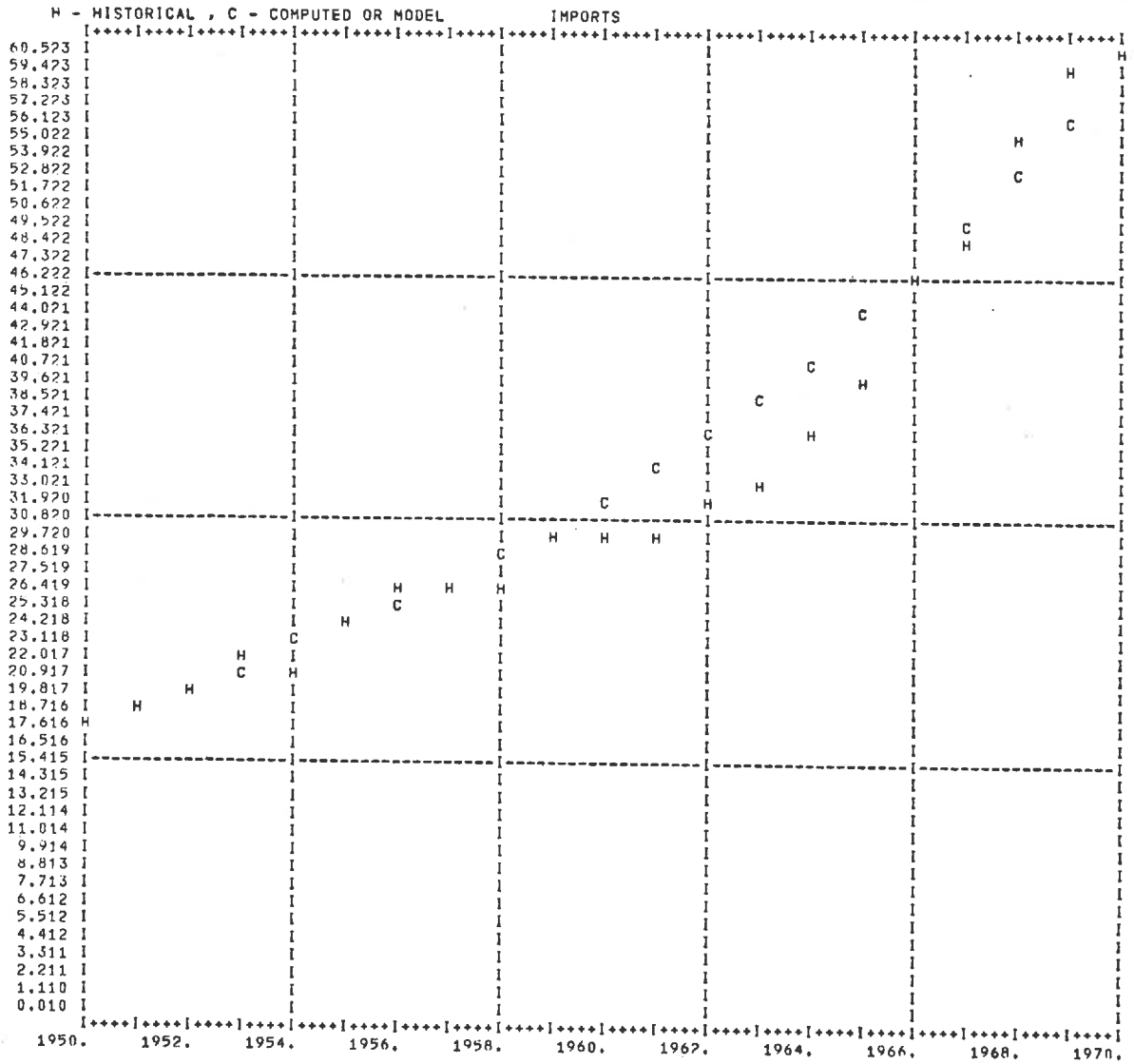
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IMPORTS
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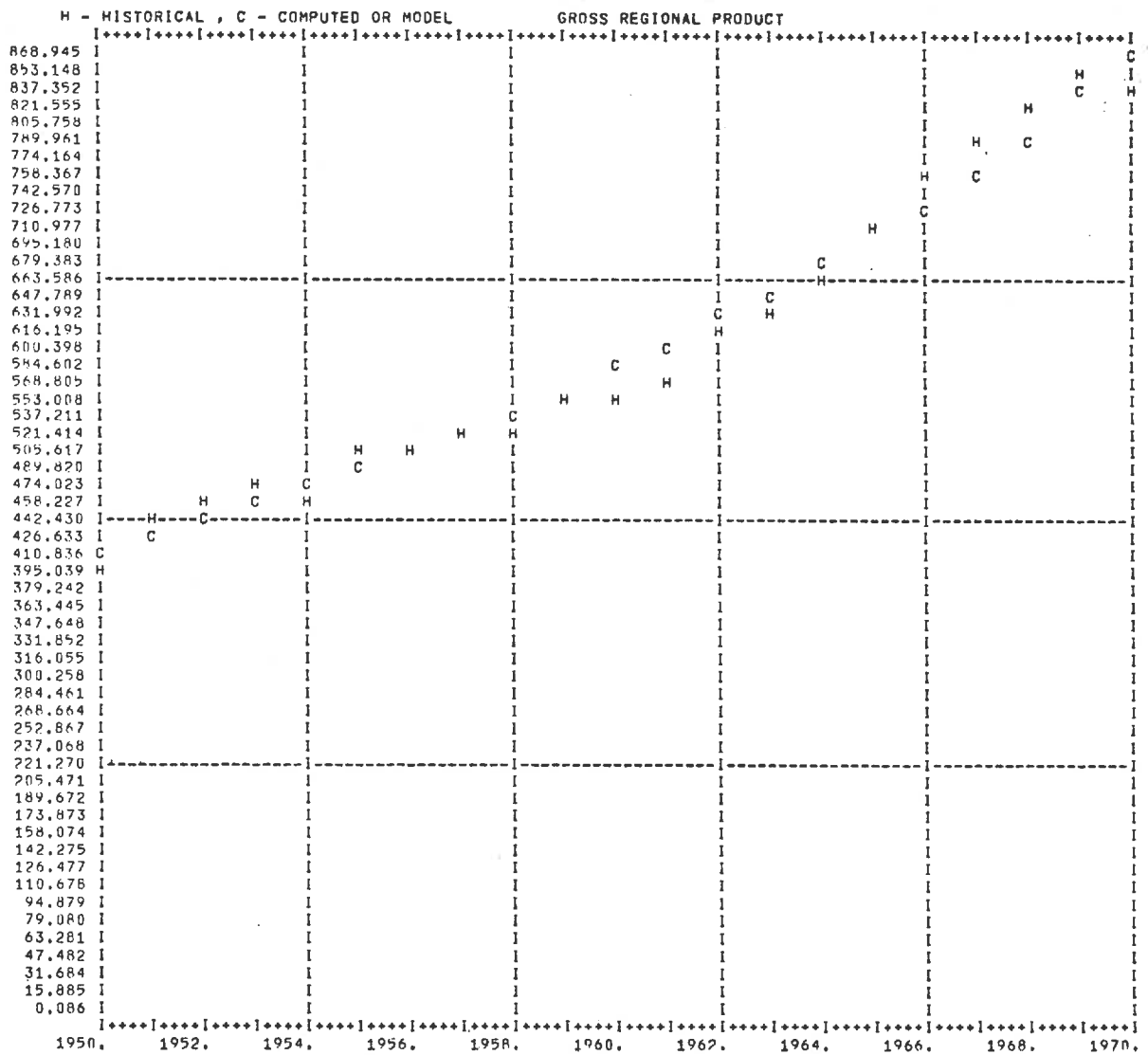
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TABLE

WESTERN EUROPE 2

	CC	HC	CI	HI	CG	HG
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1951	160.742	153.070	42.418	40.374	41.898	39.650
1952	166.738	158.441	45.192	41.335	43.075	44.685
1953	173.121	169.194	48.165	45.181	44.320	45.944
1954	179.922	177.240	51.354	50.948	45.641	45.944
1955	187.152	187.982	54.773	56.716	47.036	45.944
1956	194.840	196.039	58.441	60.561	48.509	47.203
1957	203.023	204.096	62.376	63.445	50.065	48.461
1958	211.719	209.467	66.601	65.368	51.705	49.091
1959	220.965	217.521	71.135	70.174	53.436	51.608
1960	230.797	228.264	76.005	77.864	55.258	54.126
1961	241.234	241.691	81.236	86.516	57.177	56.643
1962	252.340	255.119	86.855	92.284	59.196	60.420
1963	264.148	268.547	92.896	96.129	61.323	62.937
1964	276.695	281.973	99.387	106.703	63.561	64.196
1965	290.039	292.715	106.364	110.548	65.912	66.713
1966	304.227	306.141	113.871	116.316	68.385	68.601
1967	319.313	316.883	121.943	118.239	70.986	71.748
1968	335.359	330.313	130.629	124.968	73.717	73.636
1969	352.430	346.426	139.973	135.543	76.590	76.154
1970	370.594	365.223	150.035	145.154	79.604	78.671
ERROR	4.14868		3.64713		1.44044	

	CY	HY	CX	HX	CM	HM
1950	239.191	229.986	32.738	33.796	29.270	32.762
1951	248.436	238.504	35.352	37.176	31.978	35.348
1952	258.285	251.281	38.152	37.176	34.875	34.486
1953	268.777	264.059	41.155	39.710	37.987	36.210
1954	279.961	276.636	44.378	44.780	41.334	41.383
1955	291.867	293.871	47.840	49.004	44.939	45.694
1956	304.547	310.906	51.559	51.539	48.808	50.005
1957	318.043	323.684	55.557	55.763	52.983	52.591
1958	332.410	327.941	59.862	57.453	57.479	53.453
1959	347.699	344.980	64.497	62.523	62.334	58.626
1960	363.977	370.531	69.492	71.817	67.578	68.972
1961	381.301	391.828	74.880	75.196	73.230	73.283
1962	399.738	408.863	80.694	79.421	79.354	79.318
1963	419.367	425.898	86.976	84.490	85.978	86.215
1964	440.266	451.453	93.769	92.094	93.149	94.837
1965	462.508	472.750	101.115	100.543	100.927	101.734
1966	486.199	489.785	109.072	108.147	109.358	108.631
1967	511.430	506.820	117.693	114.906	118.512	113.804
1968	538.305	532.375	127.051	128.426	128.455	125.012
1969	566.930	566.445	137.209	144.479	139.268	142.256
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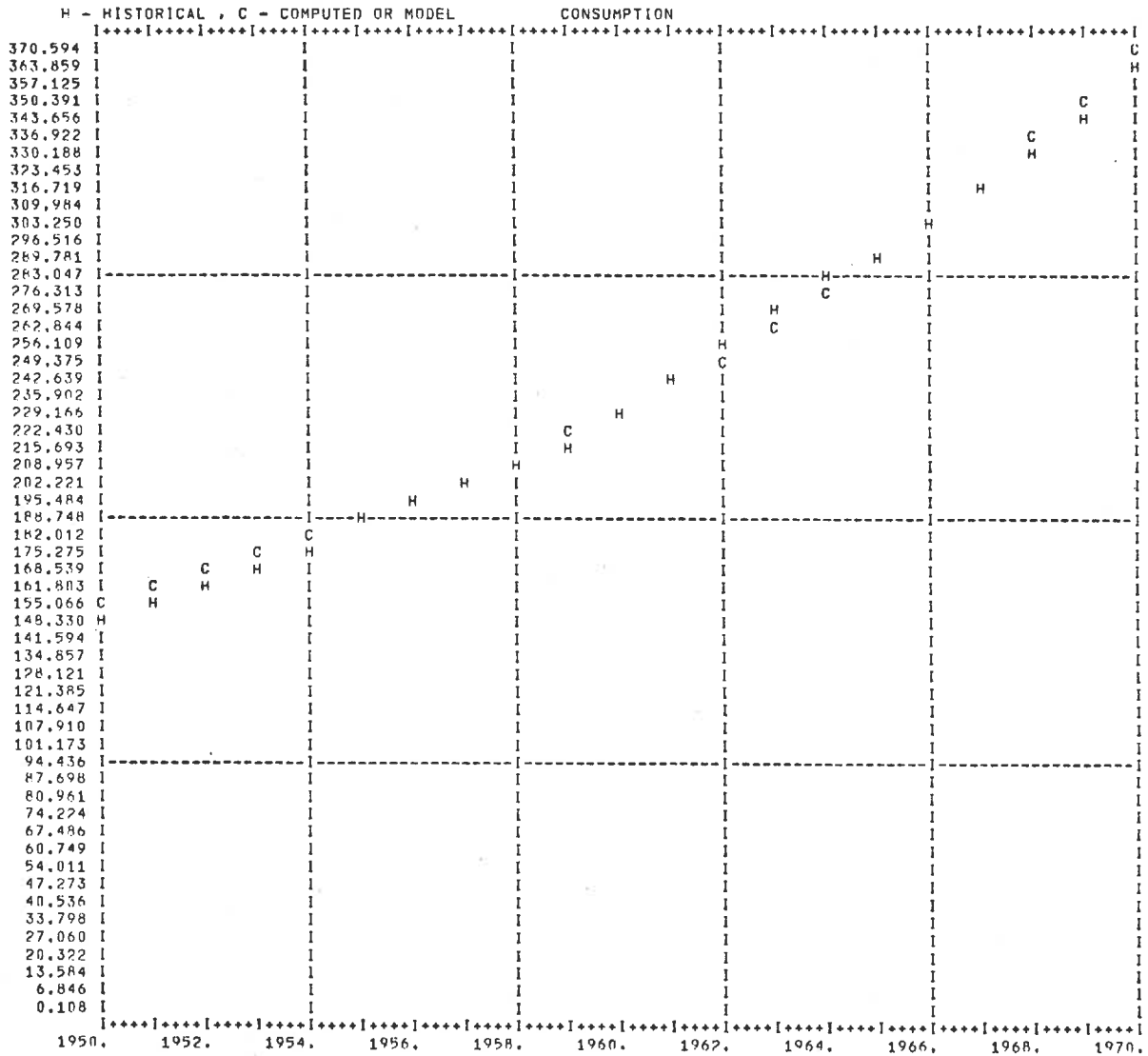
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249.375
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202.221
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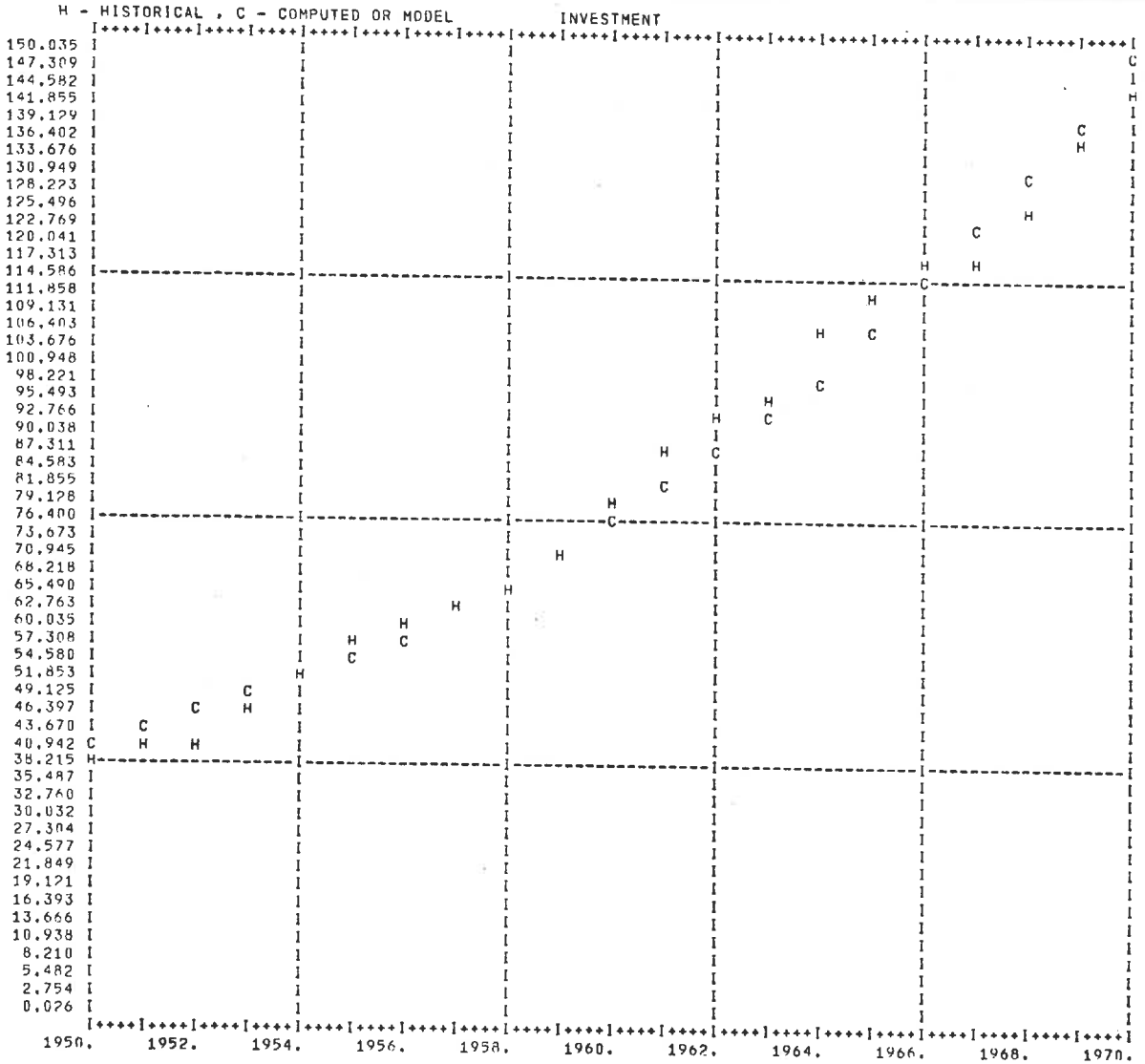
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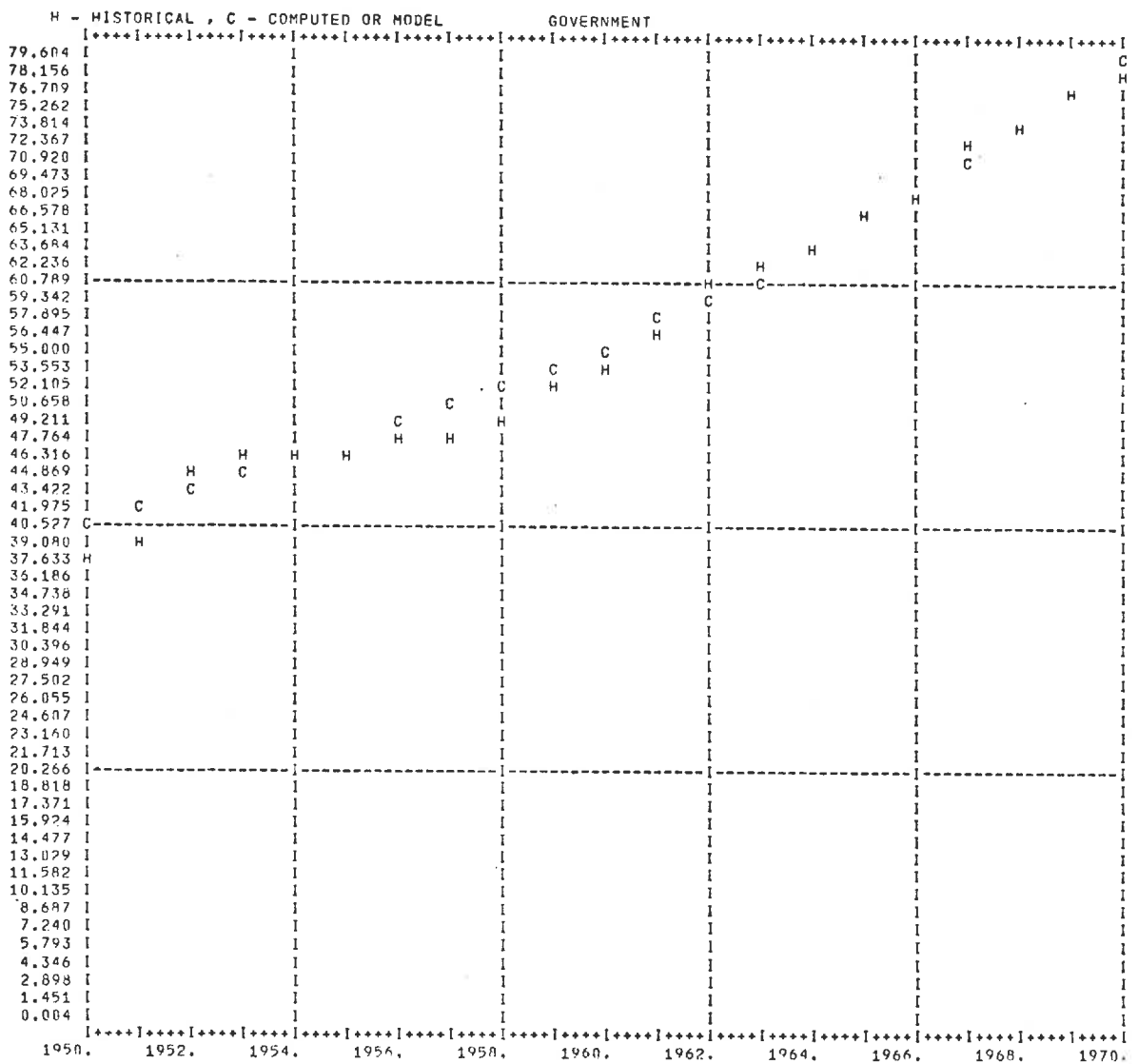
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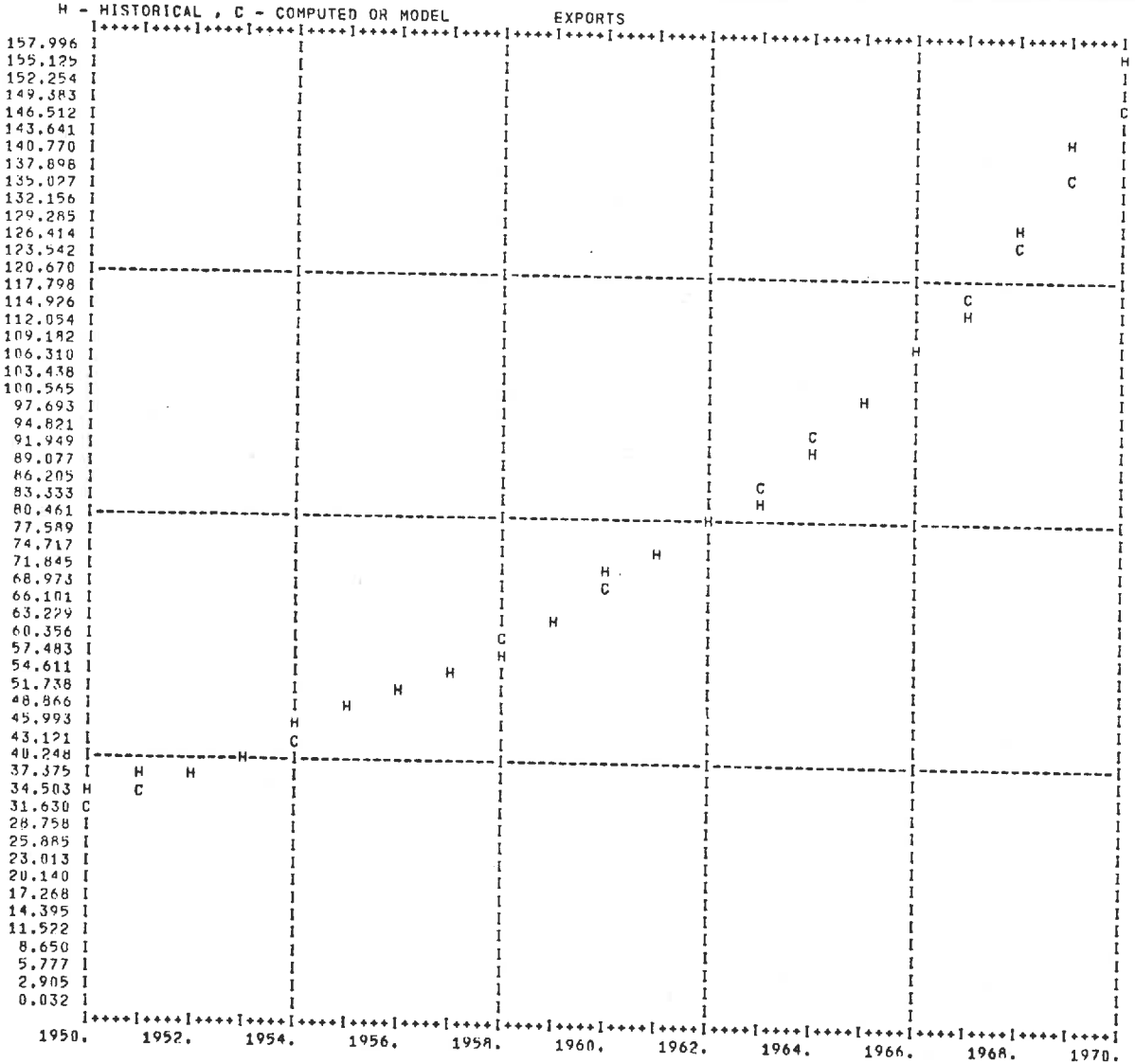
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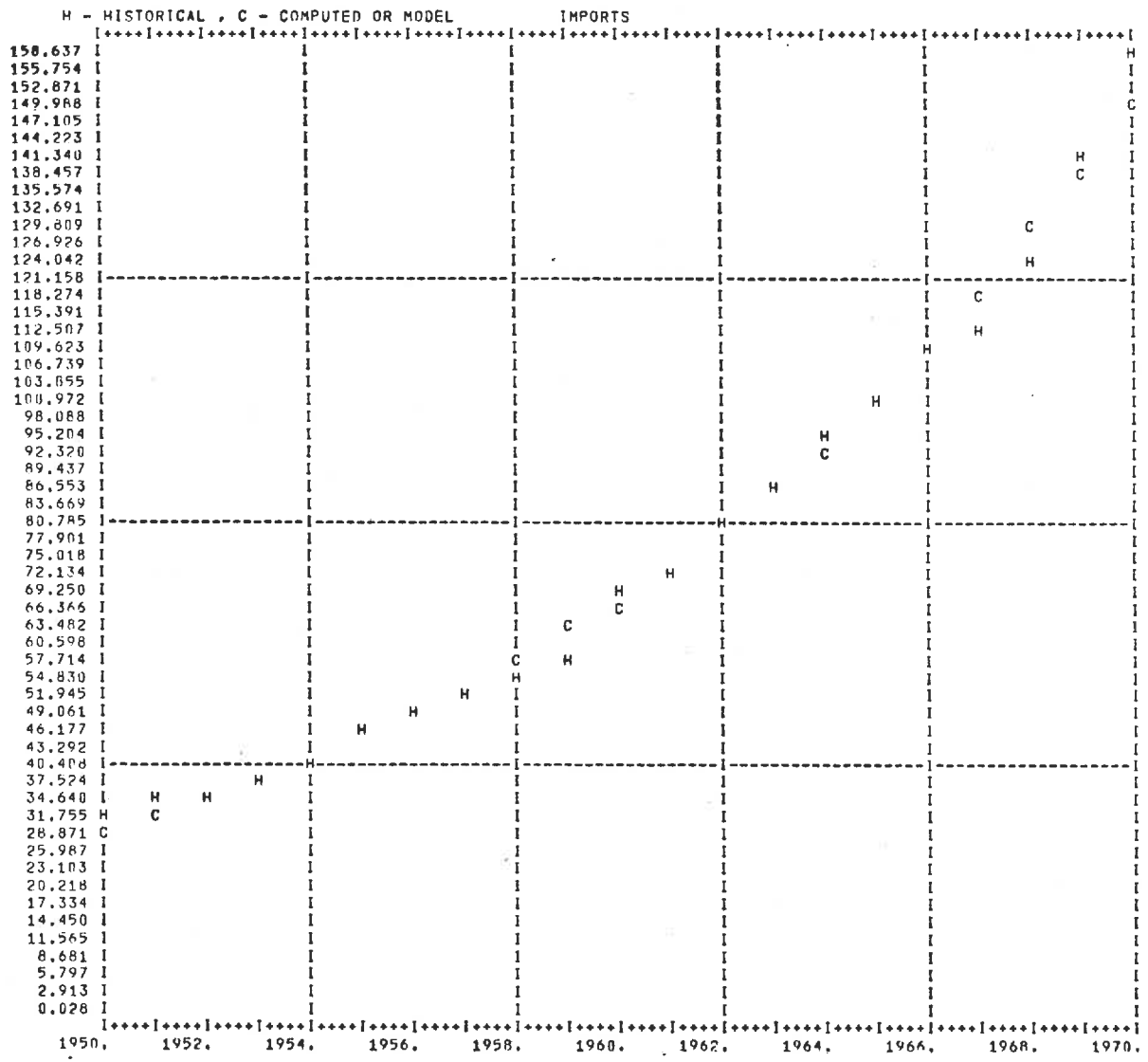
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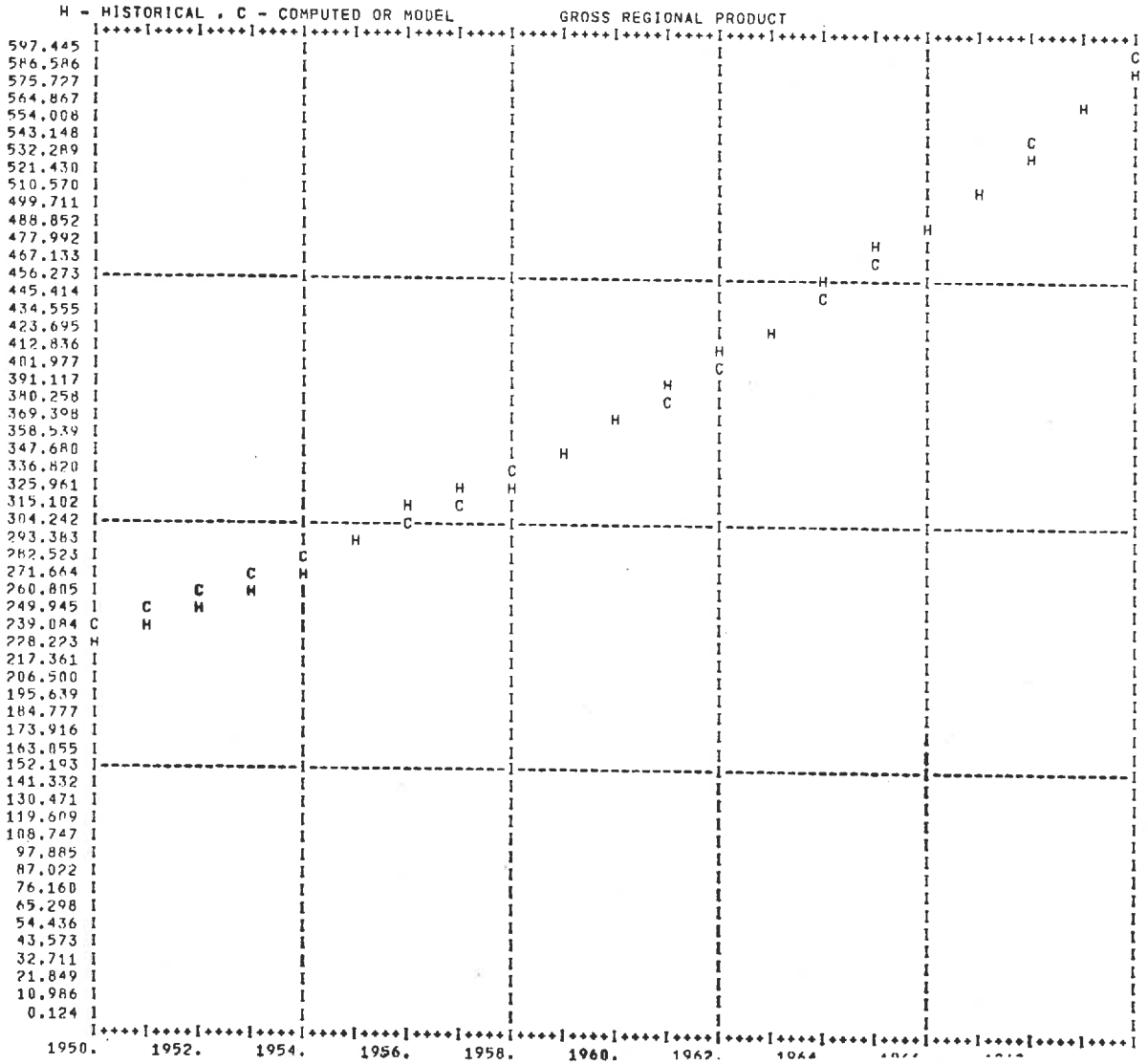
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1956.
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1960.
1962.

TABLE

JAPAN J

	CC	HC	CI	HI	CG	HG
1950	15.643	15.451	3.578	4.548	3.936	3.928
1951	16.414	16.243	4.069	4.781	4.046	4.130
1952	17.311	17.075	4.629	5.026	4.178	4.341
1953	18.341	17.951	5.270	5.284	4.329	4.564
1954	19.516	19.386	6.005	5.614	4.501	4.681
1955	20.849	21.280	6.849	6.063	4.693	4.869
1956	22.355	22.805	7.819	7.234	4.907	4.810
1957	24.055	24.559	8.936	7.790	5.142	5.180
1958	25.966	25.593	10.222	8.963	5.398	4.932
1959	28.114	27.258	11.706	10.813	5.677	5.061
1960	30.526	30.515	13.418	13.578	5.977	5.444
1961	33.234	34.504	15.396	18.129	6.300	6.011
1962	36.273	35.930	17.684	19.086	6.645	6.195
1963	39.683	40.321	20.330	21.441	7.011	6.885
1964	43.511	45.191	23.394	25.325	7.397	7.360
1965	47.808	46.894	26.944	25.543	7.802	7.700
1966	52.632	50.969	31.060	28.730	8.222	8.167
1967	58.056	57.635	35.836	35.028	8.656	8.890
1968	64.150	62.890	41.382	42.354	9.097	9.488
1969	71.002	68.291	47.822	49.860	9.539	9.876
1970	78.715	74.507	55.311	55.905	9.973	10.615
ERROR	1.33067		1.27859		0.31567	

	CY	HY	CX	HX	CM	HM
1950	22.961	24.046	0.820	1.735	1.017	1.616
1951	24.327	25.279	1.135	1.824	1.338	1.698
1952	25.909	26.575	1.476	1.918	1.684	1.785
1953	27.728	27.937	1.844	2.016	2.057	1.877
1954	29.807	29.982	2.243	2.267	2.458	1.964
1955	32.175	32.707	2.675	2.586	2.891	2.088
1956	34.865	35.433	3.142	2.985	3.359	2.400
1957	37.916	38.158	3.649	3.215	3.866	2.584
1958	41.373	40.203	4.199	3.596	4.413	2.879
1959	45.287	43.610	4.796	4.000	5.006	3.521
1960	49.718	49.742	5.445	4.675	5.649	4.470
1961	54.736	57.919	6.149	5.208	6.345	5.933
1962	60.417	61.326	6.915	5.771	7.100	5.655
1963	66.854	68.140	7.749	6.333	7.919	6.838
1964	74.148	77.680	8.657	7.713	8.810	7.903
1965	82.422	81.087	9.646	9.322	9.779	8.364
1966	91.811	89.263	10.725	10.827	10.829	9.425
1967	102.475	101.529	11.902	11.883	11.975	11.905
1968	114.594	115.838	13.187	14.481	13.223	13.372
1969	128.377	130.146	14.592	17.318	14.580	15.192
1970	144.066	143.094	16.129	19.103	16.063	17.036
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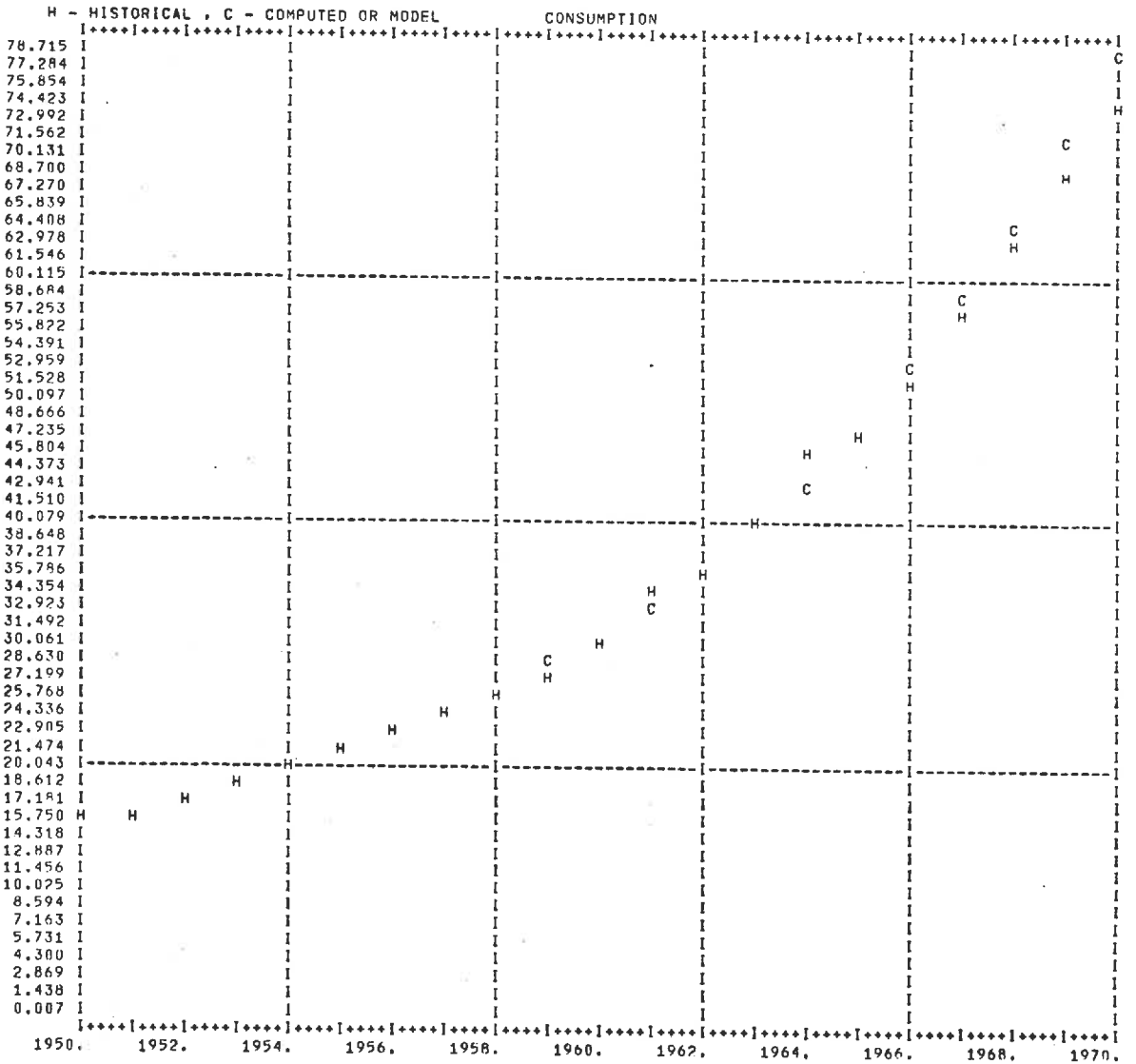
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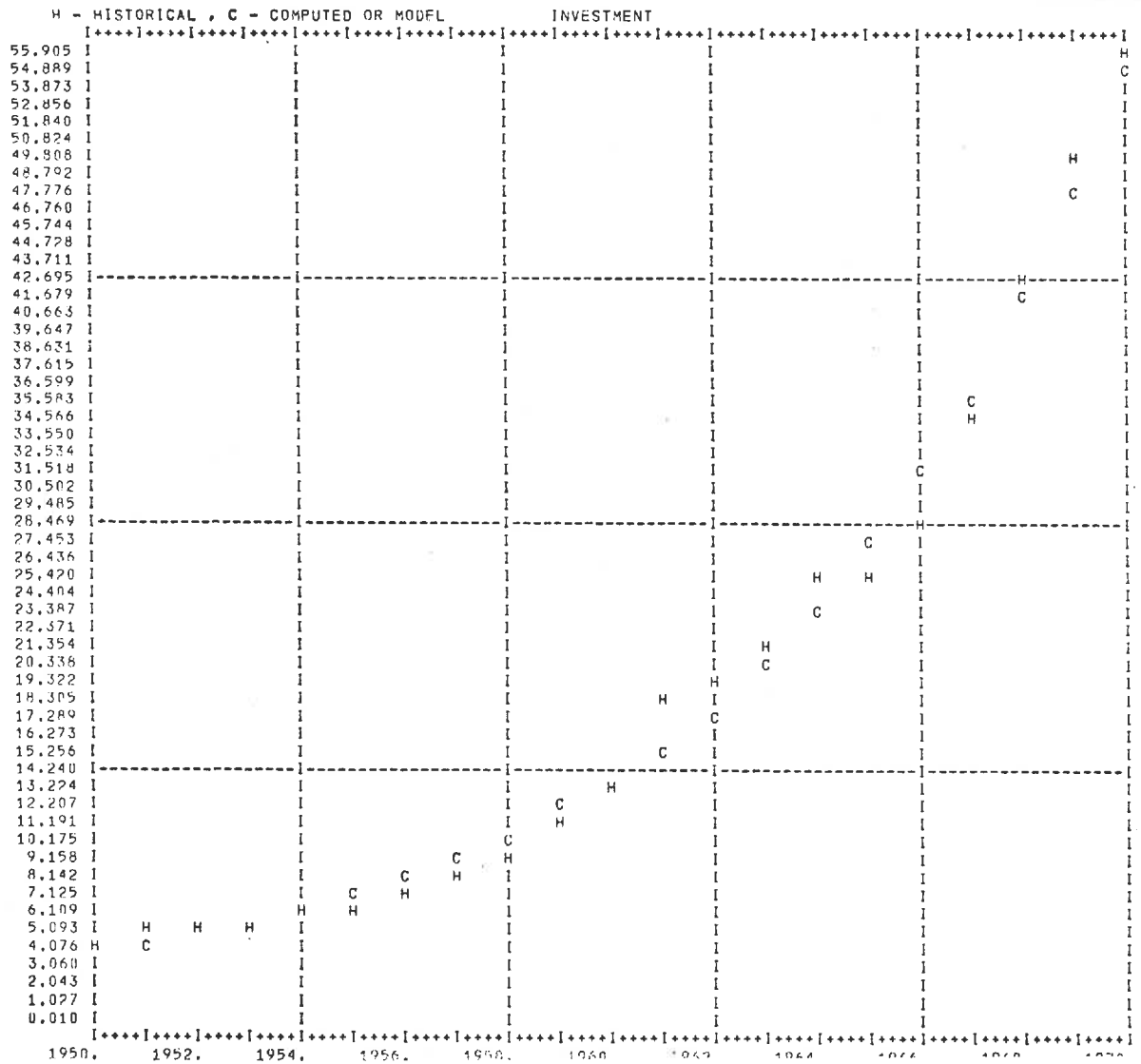
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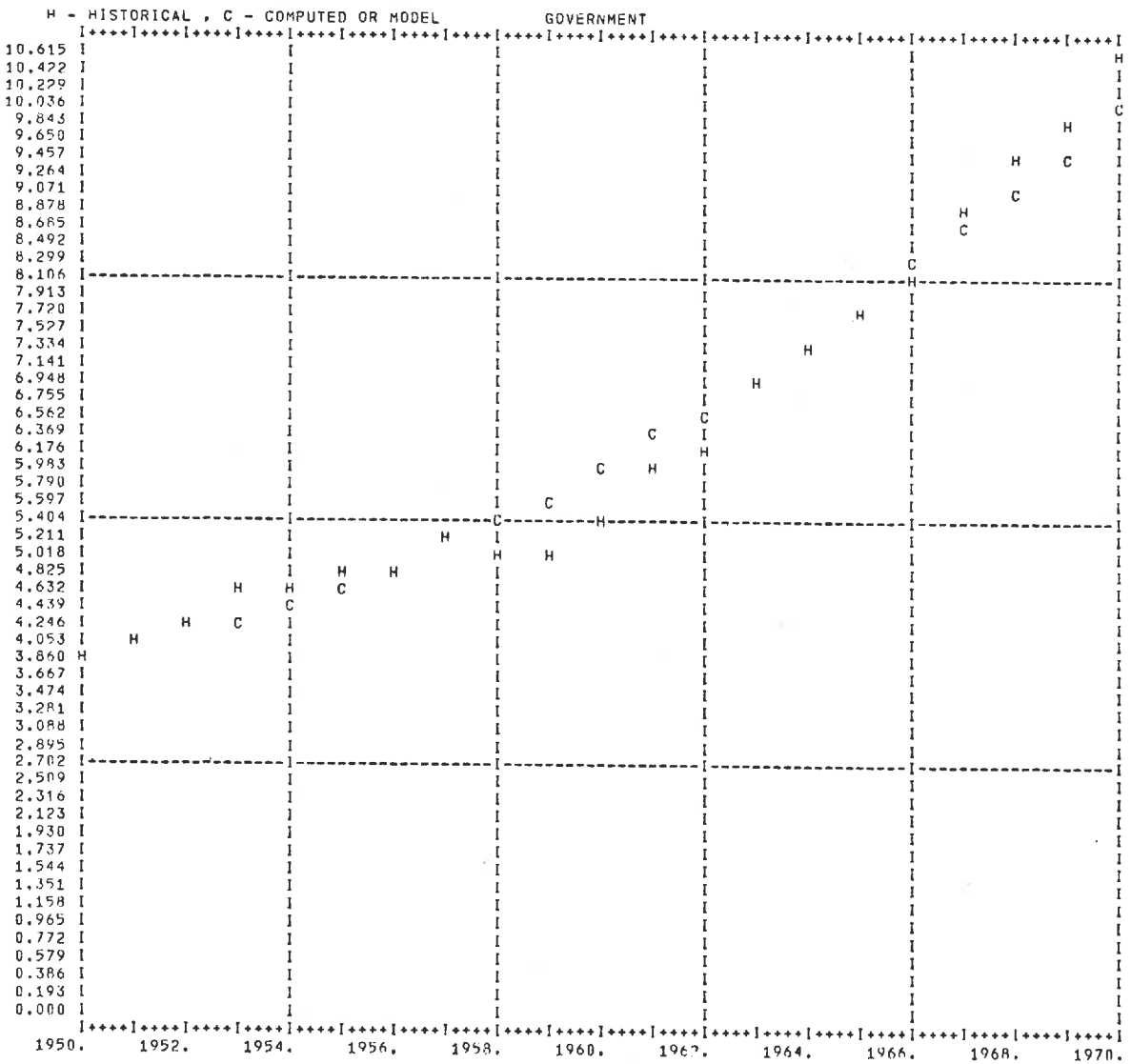
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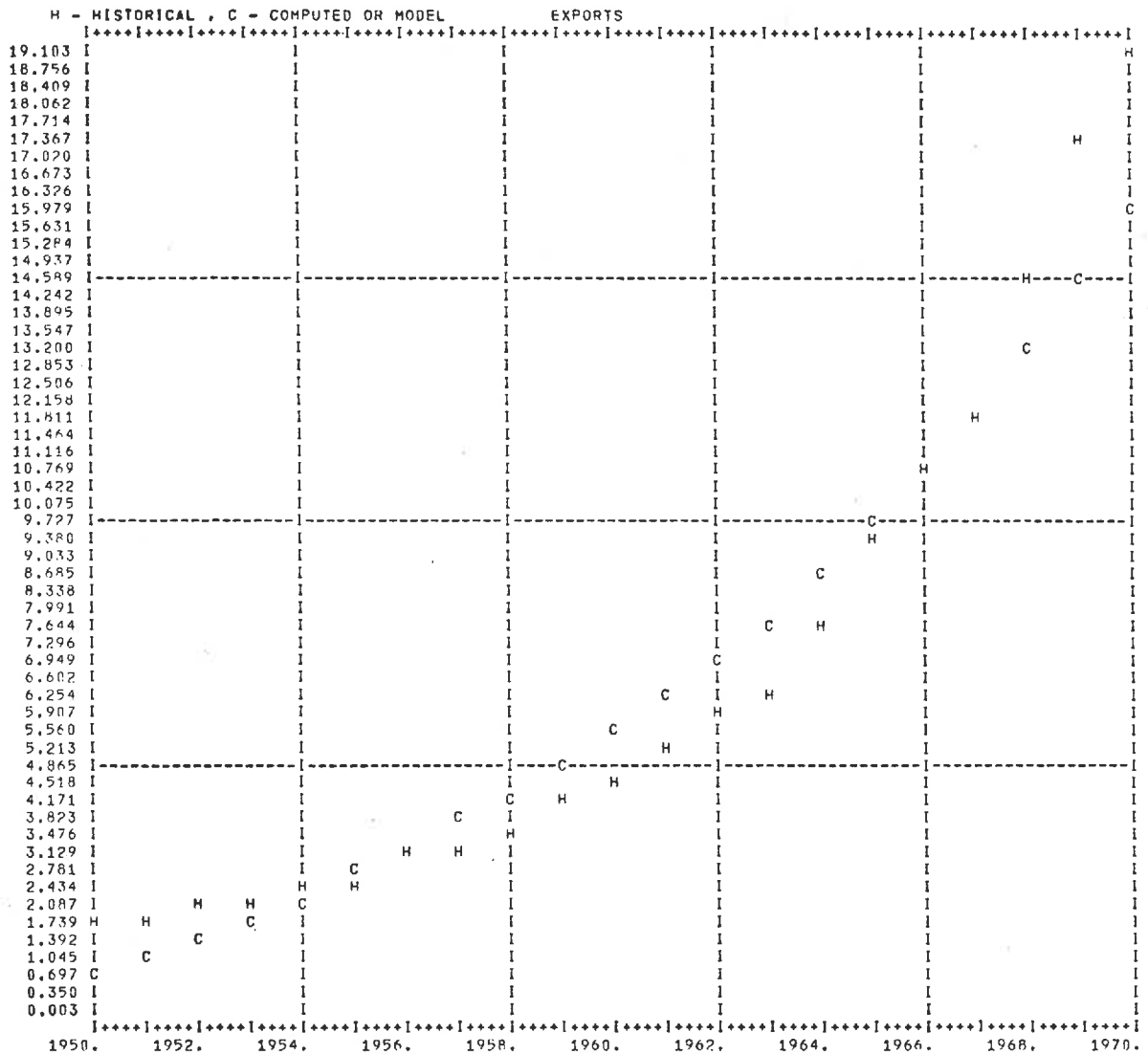
H - HISTORICAL , C - COMPUTED OR MODEL EXPORTS
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16.326
15.979
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2.087
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1.392
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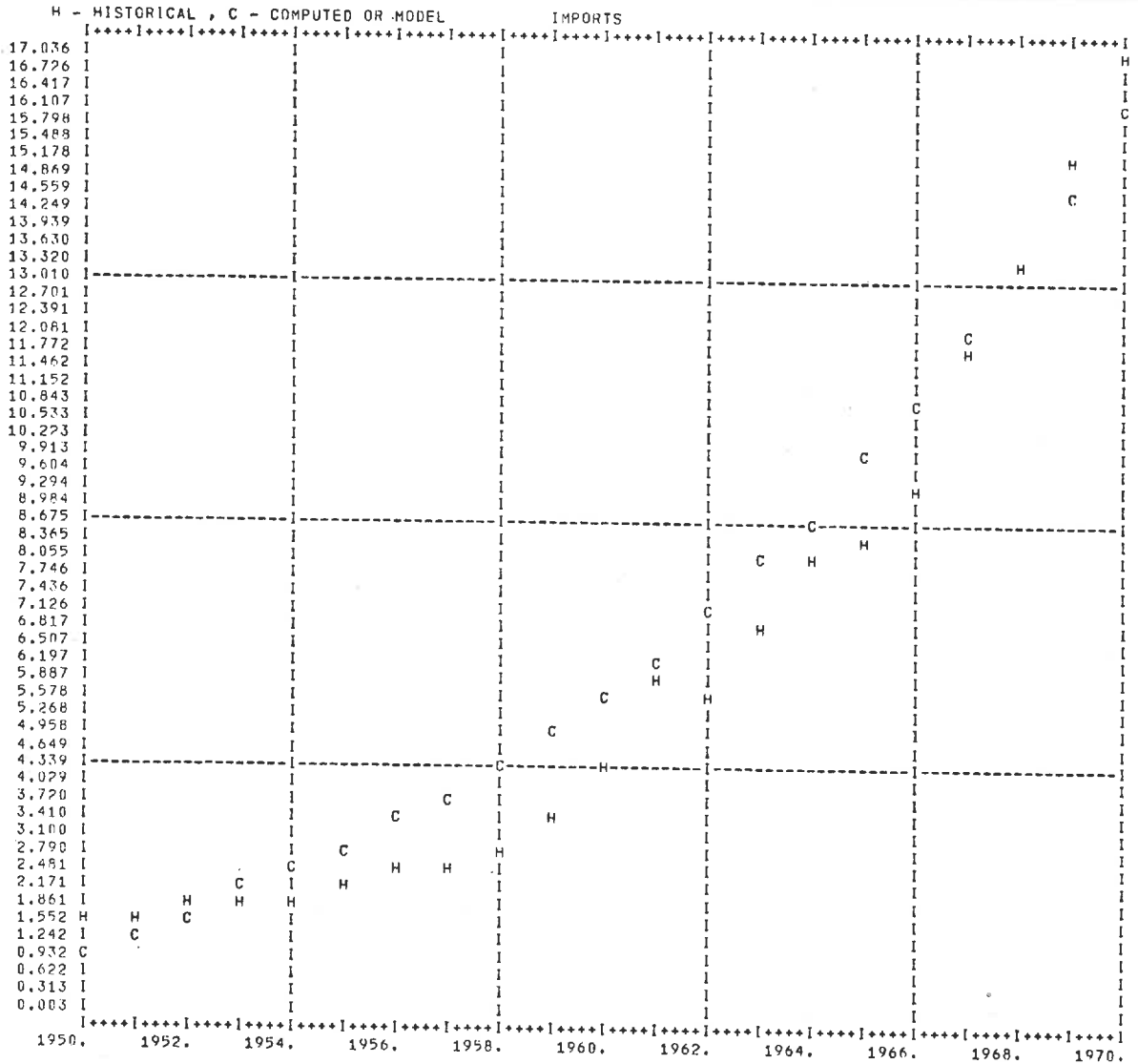
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14.559
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13.630
13.320
13.010
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12.081
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11.462
11.152
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9.913
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8.365
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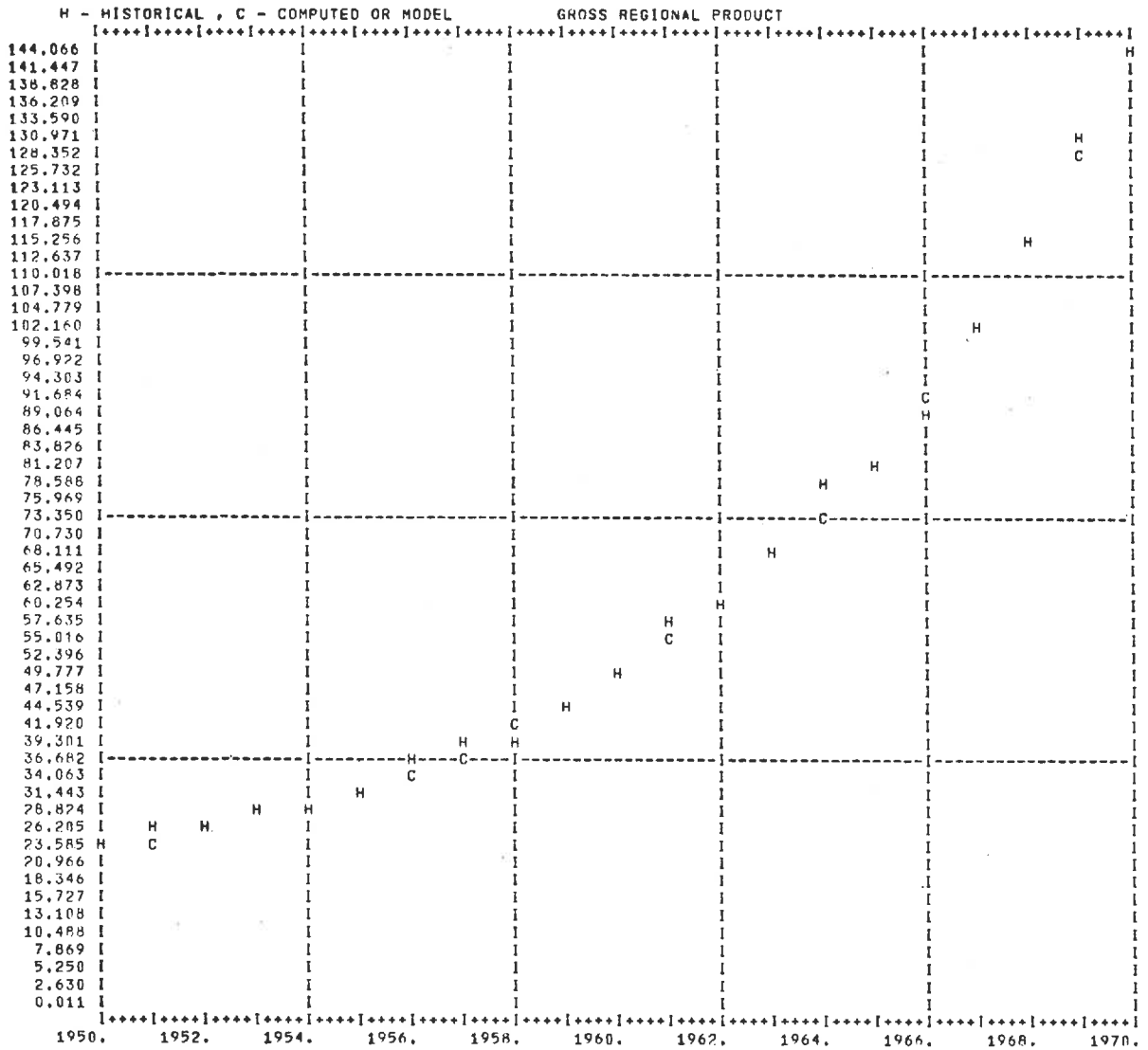
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125.732
123.113
120.494
117.875
115.256
112.637
110.018
107.398
104.779
102.160
99.541
96.922
94.303
91.684
89.064
86.445
83.826
81.207
78.588
75.969
73.350
70.730
68.111
65.492
62.873
60.254
57.635
55.016
52.396
49.777
47.158
44.539
41.920
39.301
36.682
34.063
31.443
28.824
26.205
23.585
20.966
18.346
15.727
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7.869
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1952.
1954.
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1960.
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1970.

TABLE

REST OF DEV WORLD 4

	CC	HC	CI	HI	CG	HG
1950	14.711	14.639	4.665	4.836	2.356	2.407
1951	15.195	15.037	4.878	4.983	2.468	2.536
1952	15.708	15.430	5.105	5.298	2.588	2.660
1953	16.252	15.598	5.346	5.417	2.715	2.802
1954	16.826	16.710	5.602	6.110	2.851	2.893
1955	17.435	17.057	5.874	5.886	2.996	2.946
1956	18.079	17.787	6.165	6.098	3.150	3.076
1957	18.764	18.001	6.474	6.235	3.315	3.090
1958	19.488	18.657	6.804	6.531	3.490	3.280
1959	20.258	20.100	7.155	6.953	3.679	3.370
1960	21.075	20.581	7.531	7.339	3.880	3.529
1961	21.941	20.592	7.932	7.333	4.095	3.650
1962	22.864	21.471	8.361	7.494	4.326	3.882
1963	23.843	22.881	8.820	8.530	4.573	4.120
1964	24.886	24.768	9.312	9.660	4.838	4.520
1965	25.997	25.010	9.838	10.327	5.122	4.921
1966	27.178	26.389	10.403	10.784	5.428	5.413
1967	28.439	27.297	11.009	10.777	5.756	5.874
1968	29.784	29.179	11.659	11.718	6.110	6.259
1969	31.219	30.894	12.358	12.629	6.490	6.591
1970	32.751	32.667	13.110	13.562	6.900	7.282
ERROR	0.69363		0.35118		0.24648	

	CY	HY	CX	HX	CM	HM
1950	20.937	21.688	3.581	3.622	4.376	4.273
1951	21.754	22.049	3.772	3.726	4.559	4.608
1952	22.620	23.134	3.976	4.048	4.756	4.650
1953	23.538	23.351	4.192	4.063	4.967	4.623
1954	24.511	24.941	4.424	4.289	5.192	5.387
1955	25.543	25.645	4.671	4.729	5.433	5.375
1956	26.639	26.748	4.935	5.162	5.691	5.135
1957	27.802	27.110	5.218	4.879	5.968	5.341
1958	29.039	28.773	5.520	5.438	6.263	5.466
1959	30.354	30.363	5.844	5.920	6.582	5.981
1960	31.754	31.231	6.191	6.308	6.923	6.620
1961	33.244	32.026	6.564	6.789	7.288	6.052
1962	34.833	33.761	6.964	6.921	7.682	6.482
1963	36.526	36.147	7.393	7.771	8.103	7.554
1964	38.333	38.641	7.855	7.960	8.558	8.926
1965	40.262	40.340	8.352	7.906	9.047	9.278
1966	42.324	42.291	8.888	8.754	9.572	9.219
1967	44.529	44.171	9.465	8.480	10.140	10.006
1968	46.888	47.063	10.088	10.495	10.754	9.836
1969	49.414	50.316	10.761	11.472	11.415	11.924
1970	52.122	52.774	11.489	11.979	12.130	13.299
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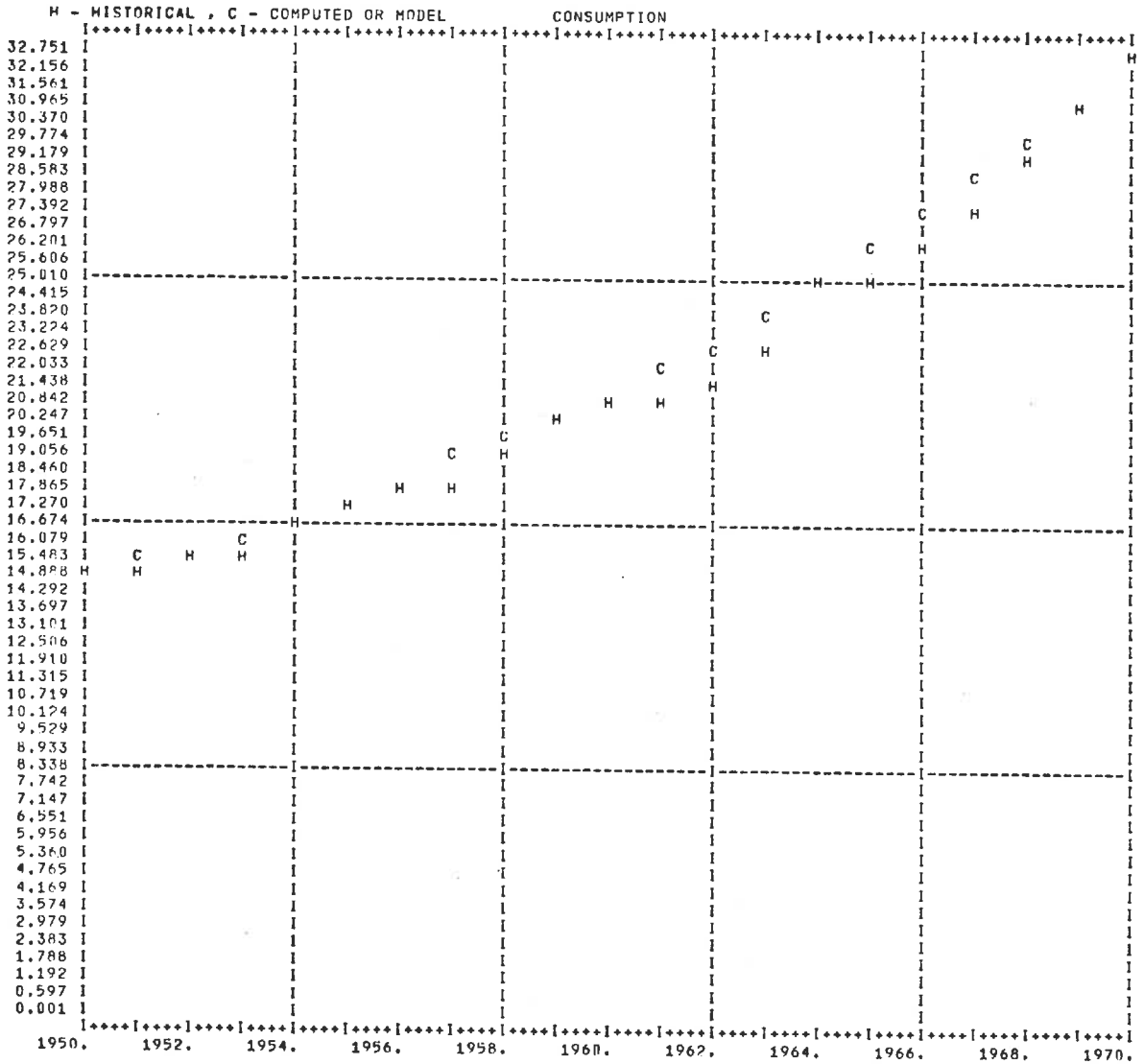
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29.774
29.179
28.583
27.988
27.392
26.797
26.201
25.606
25.010
24.415
23.820
23.224
22.629
22.033
21.438
20.842
20.247
19.651
19.056
18.460
17.865
17.270
16.674
16.079
15.483
14.888
14.292
13.697
13.101
12.506
11.910
11.315
10.719
10.124
9.529
8.933
8.338
7.742
7.147
6.551
5.956
5.360
4.765
4.169
3.574
2.979
2.383
1.788
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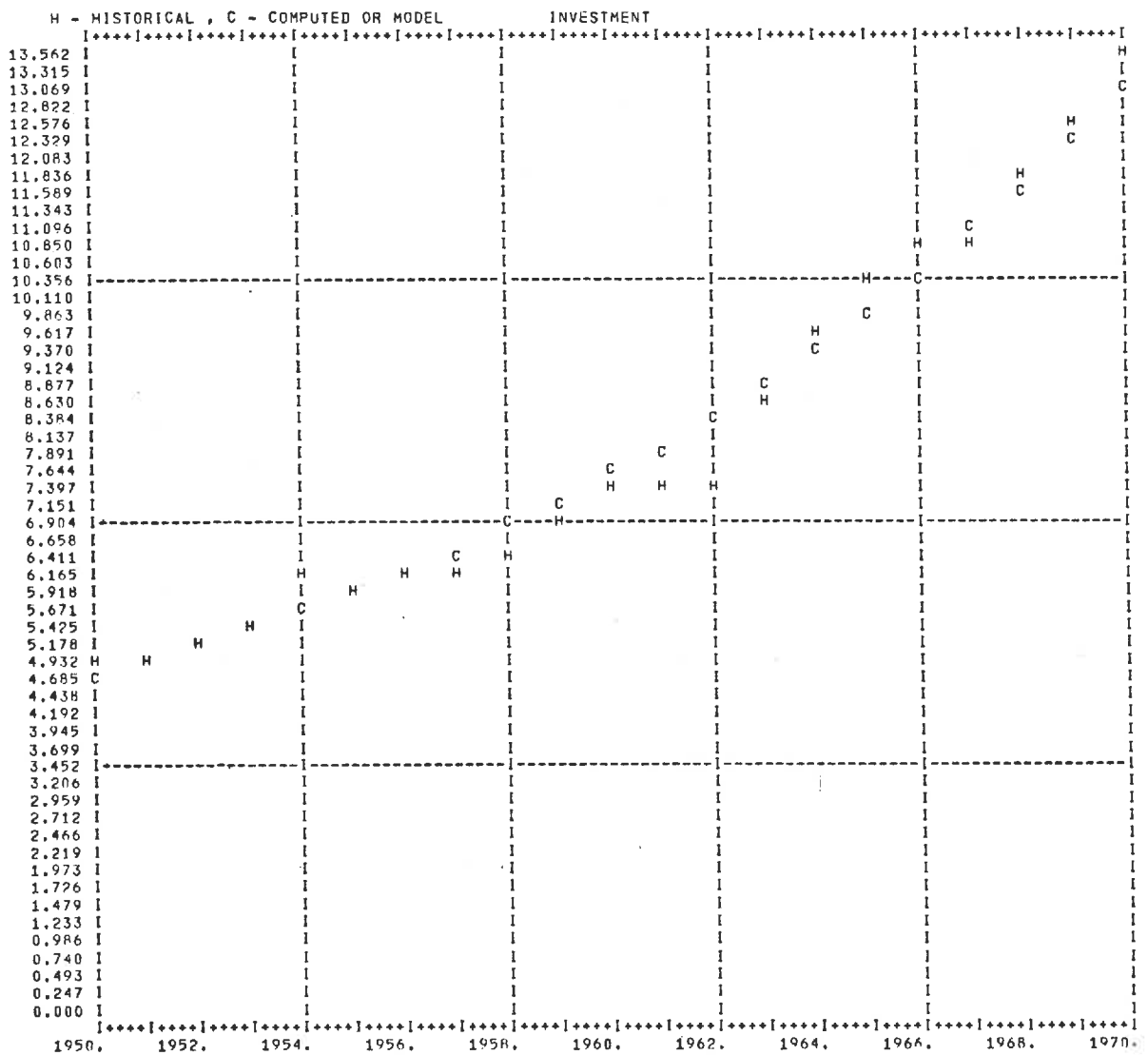
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12.329
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11.589
11.343
11.096
10.850
10.603
10.356
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9.863
9.617
9.370
9.124
8.877
8.630
8.384
8.137
7.891
7.644
7.397
7.151
6.904
6.658
6.411
6.165
5.918
5.671
5.425
5.178
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4.685
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3.452
3.206
2.959
2.712
2.466
2.219
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1.726
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1.233
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0.740
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1966.
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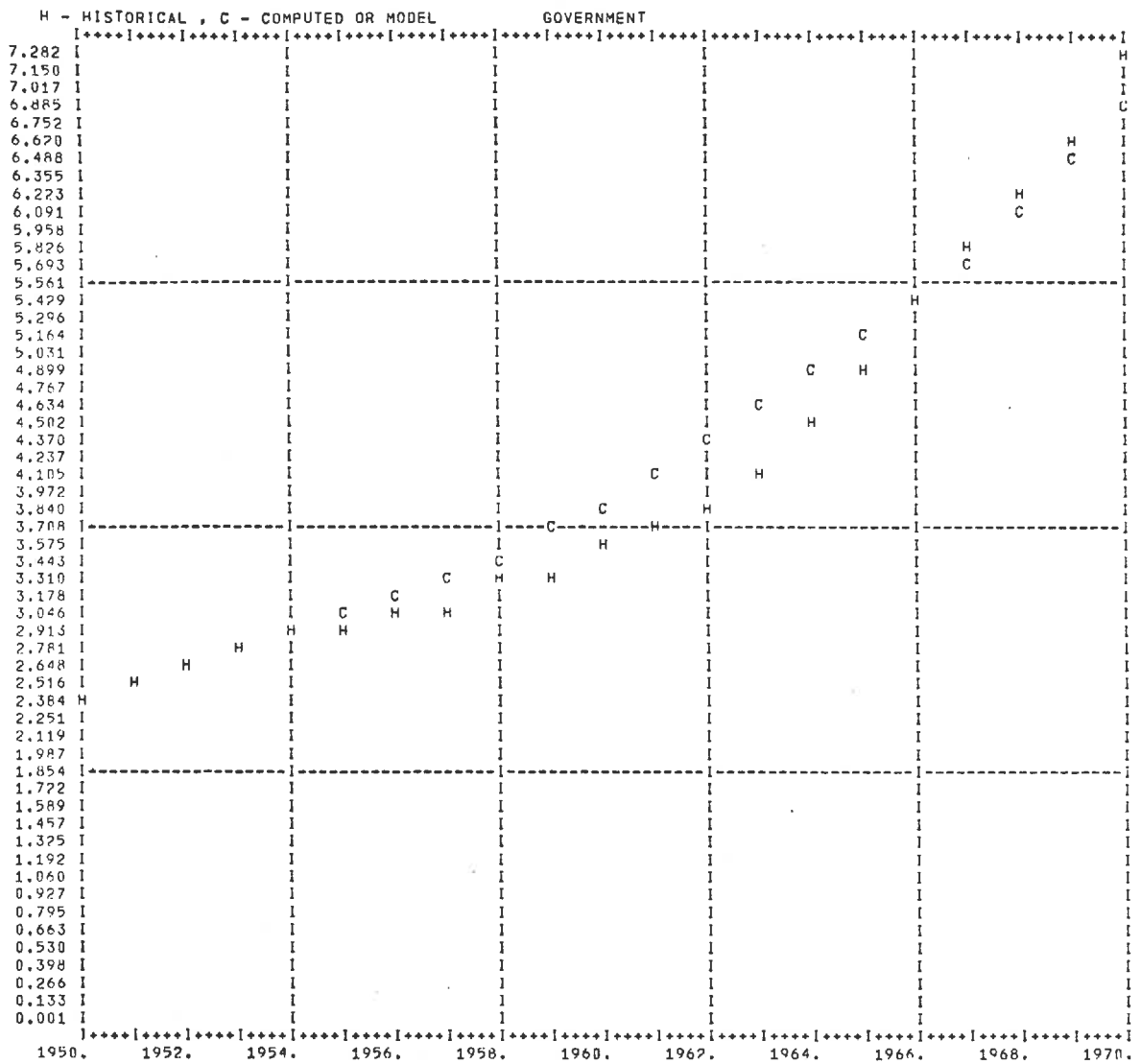
H - HISTORICAL , C - COMPUTED OR MODEL
GOVERNMENT
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6.223
6.091
5.958
5.826
5.693
5.561
5.429
5.296
5.164
5.031
4.899
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4.634
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4.237
4.105
3.972
3.840
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3.575
3.443
3.310
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2.913
2.781
2.648
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1.325
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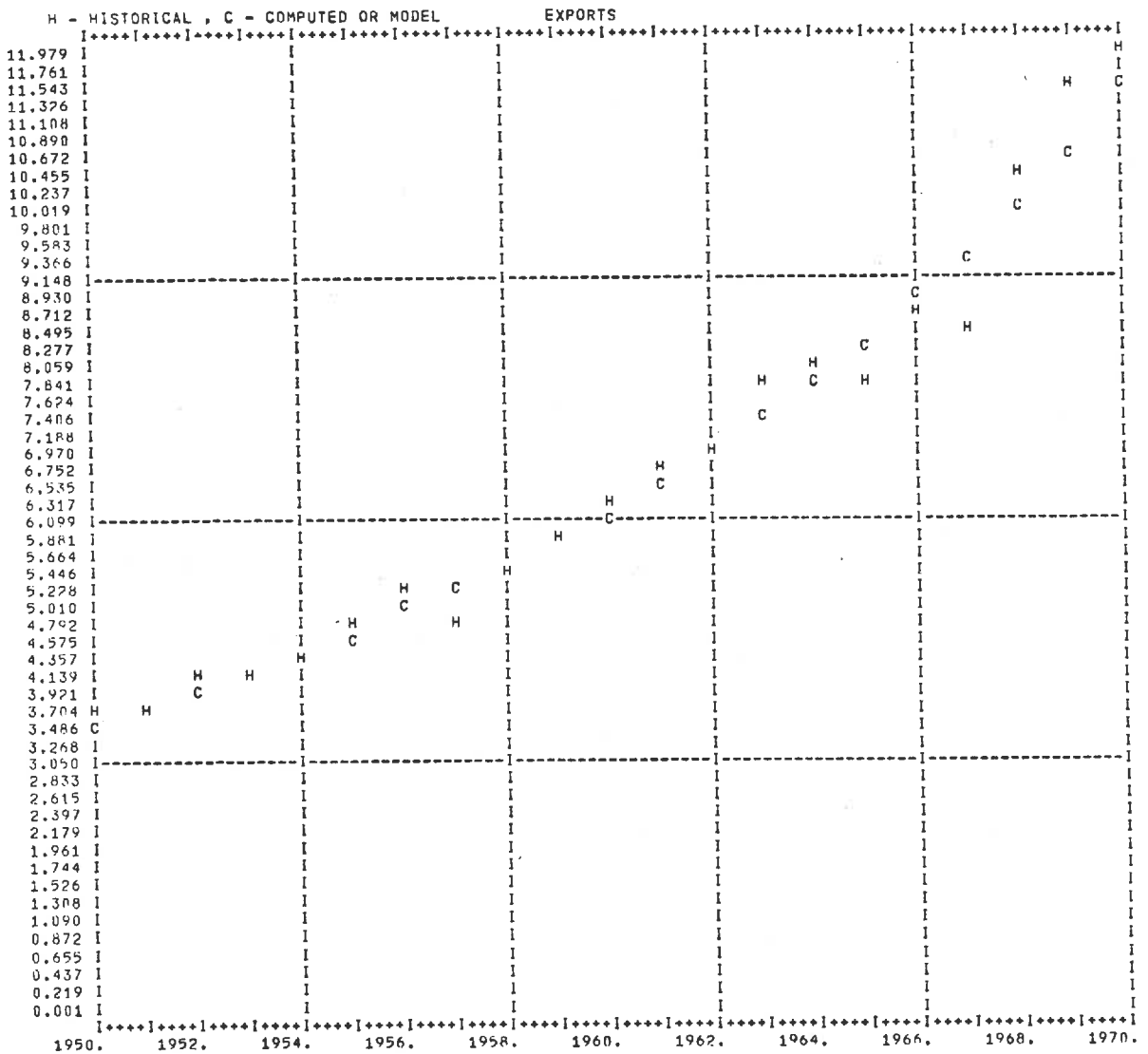
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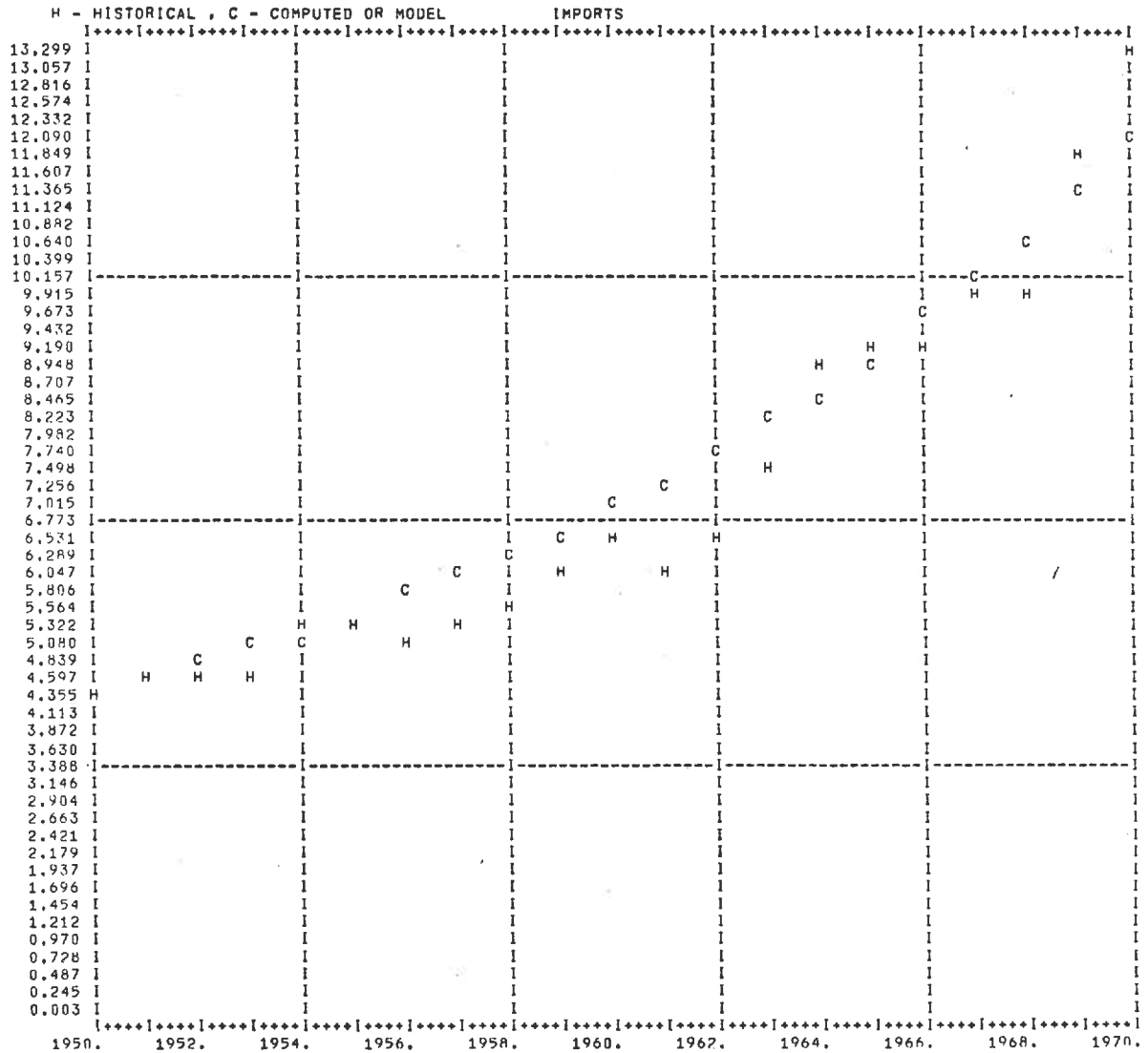
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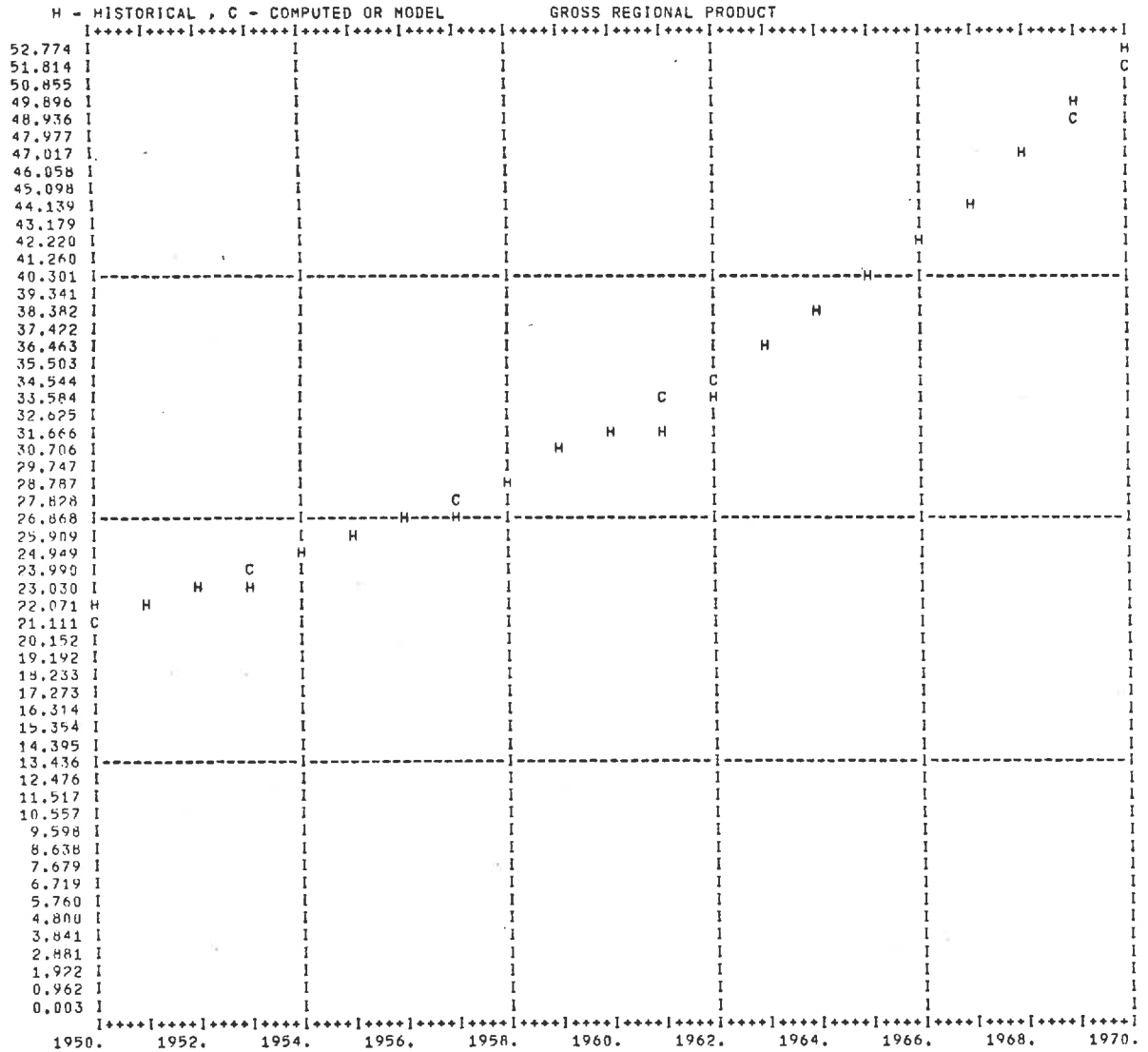
H - HISTORICAL , C - COMPUTED OR MODEL
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8.638
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1970.

TABLE

EASTERN EUROPE 5

	CC	HC	CI	HI	CG	HG
1950	88.754	79.141	17.724	14.851	9.417	9.140
1951	94.705	87.935	19.159	16.502	10.185	10.155
1952	101.064	94.530	20.710	17.740	11.016	10.917
1953	107.859	101.125	22.387	18.978	11.915	11.678
1954	115.115	111.822	24.200	21.776	12.887	12.359
1955	122.873	124.485	26.159	24.996	13.938	13.156
1956	131.156	130.932	28.276	29.389	15.075	13.727
1957	140.016	143.811	30.564	32.280	16.305	15.077
1958	149.477	153.951	33.038	38.541	17.635	16.217
1959	159.586	166.406	35.711	42.929	19.072	18.695
1960	170.395	176.654	38.600	47.141	20.628	20.841
1961	181.958	189.510	41.723	49.103	22.310	23.357
1962	194.277	196.088	45.098	52.622	24.128	24.649
1963	207.469	205.412	48.746	51.930	26.095	27.119
1964	221.563	224.527	52.688	56.289	28.222	30.503
1965	236.637	239.873	56.948	55.406	30.521	31.519
1966	252.734	259.289	61.554	60.585	33.008	34.981
1967	269.937	278.863	66.528	65.431	35.696	37.779
1968	288.336	298.699	71.907	68.548	38.604	40.298
1969	308.000	313.223	77.720	71.880	41.748	42.257
1970	329.023	340.187	84.002	78.068	45.147	45.895
ERROR	6.27118		4.48151		1.13582	

	CY	HY	CX	HX	CM	HM
1950	116.067	103.660	4.961	4.705	4.790	3.978
1951	124.342	115.400	5.486	4.944	5.196	4.136
1952	133.215	124.055	6.050	5.781	5.626	4.913
1953	142.732	132.711	6.656	6.800	6.087	5.871
1954	152.939	147.135	7.309	7.475	6.574	6.151
1955	163.891	164.445	8.011	7.950	7.092	6.142
1956	175.633	175.984	8.768	8.356	7.648	6.420
1957	188.232	193.295	9.583	9.320	8.239	7.194
1958	201.746	210.605	10.464	10.130	8.868	8.024
1959	216.244	230.801	11.414	12.245	9.544	9.474
1960	231.801	248.109	12.440	13.000	10.263	9.775
1961	248.490	265.422	13.550	14.242	11.033	10.792
1962	266.398	276.961	14.751	15.960	11.860	12.636
1963	285.617	288.500	16.052	17.200	12.750	13.449
1964	306.234	314.465	17.461	18.333	13.704	15.503
1965	328.363	331.773	18.990	19.417	14.734	14.109
1966	352.105	360.625	20.648	20.190	15.843	14.420
1967	377.582	389.477	22.450	22.000	17.038	14.989
1968	404.930	415.441	24.410	24.231	18.327	16.338
1969	434.285	435.637	26.542	26.075	19.729	17.798
1970	465.789	473.141	28.864	27.434	21.252	18.444
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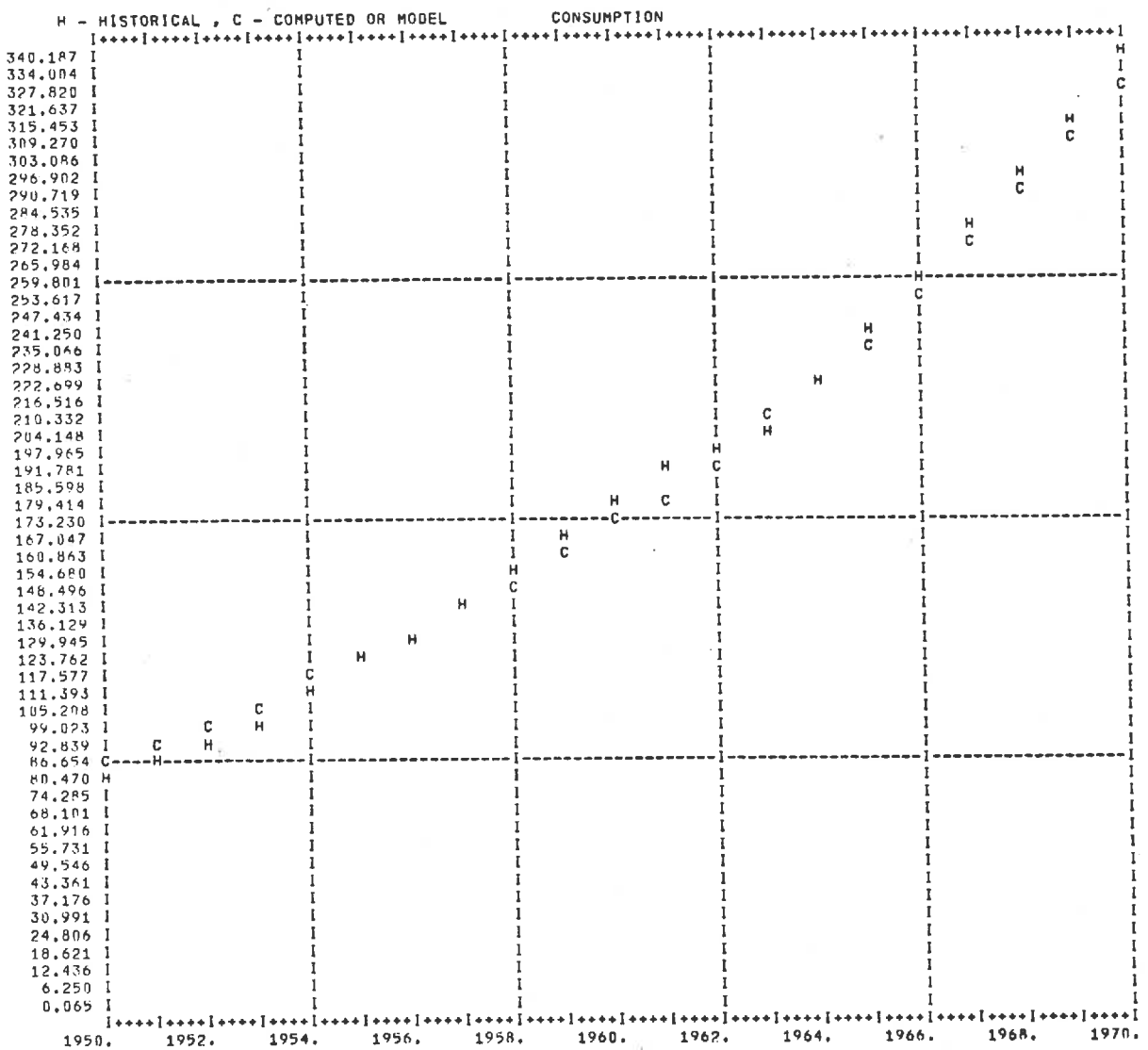
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296.902
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284.535
278.352
272.168
265.984
259.801
253.617
247.434
241.250
235.066
228.883
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204.148
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185.598
179.414
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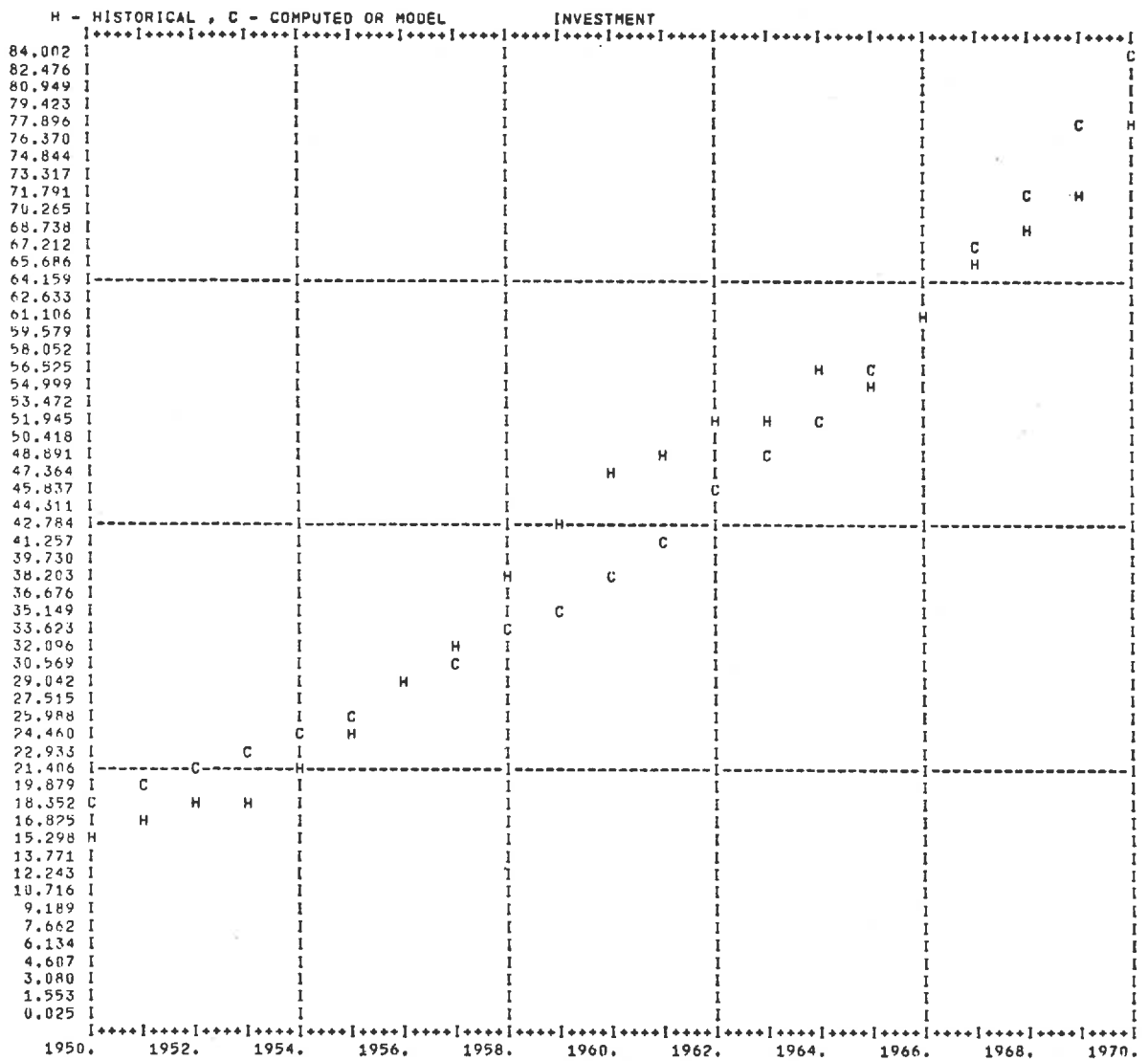
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70.265
68.738
67.212
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64.159
62.633
61.106
59.579
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56.525
54.999
53.472
51.945
50.418
48.891
47.364
45.837
44.311
42.784
41.257
39.730
38.203
36.676
35.149
33.623
32.096
30.569
29.042
27.515
25.988
24.460
22.933
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18.352
16.825
15.298
13.771
12.243
10.716
9.189
7.662
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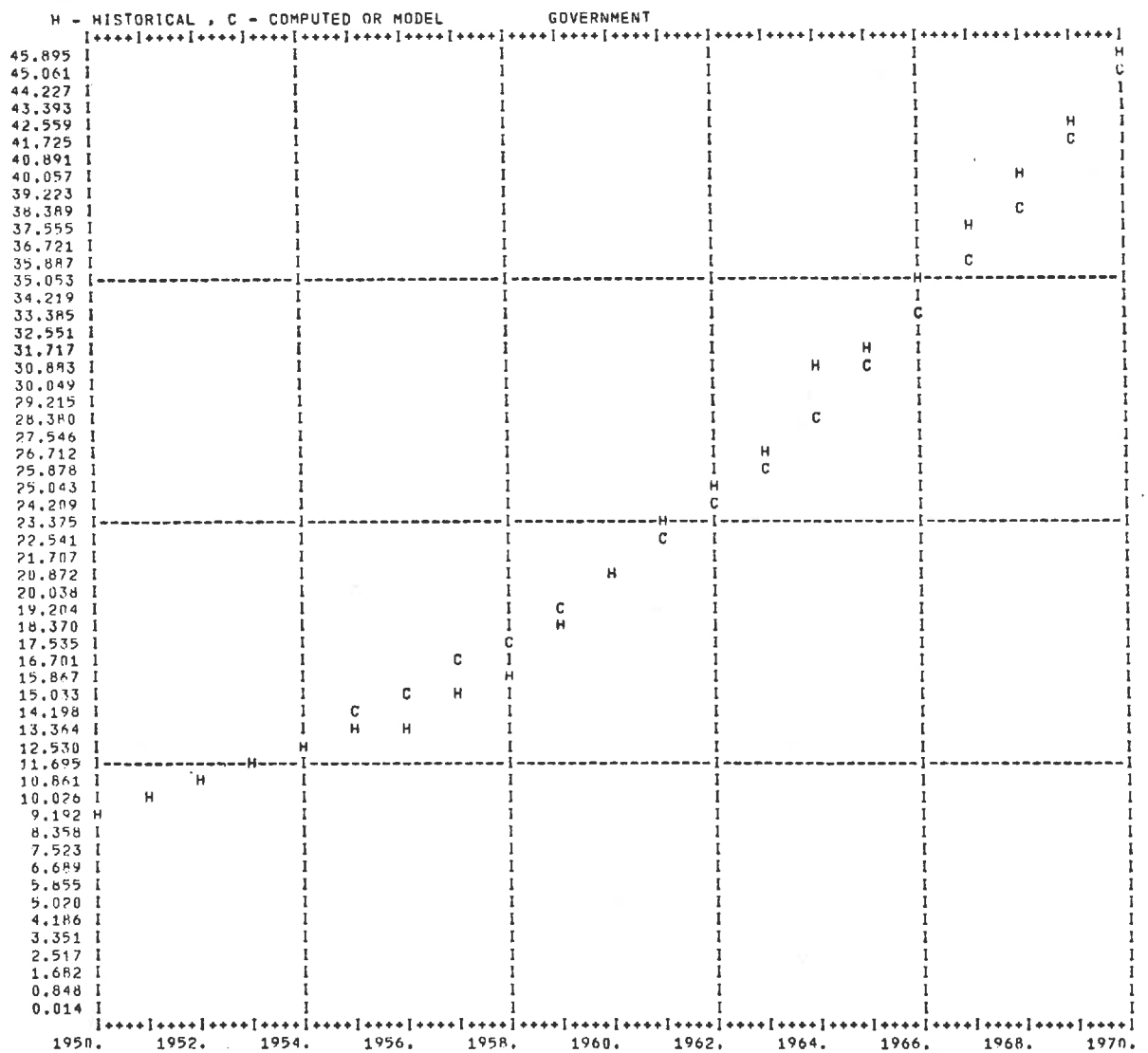
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38.389
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35.887
35.053
34.219
33.385
32.551
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29.215
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27.546
26.712
25.878
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23.375
22.541
21.707
20.872
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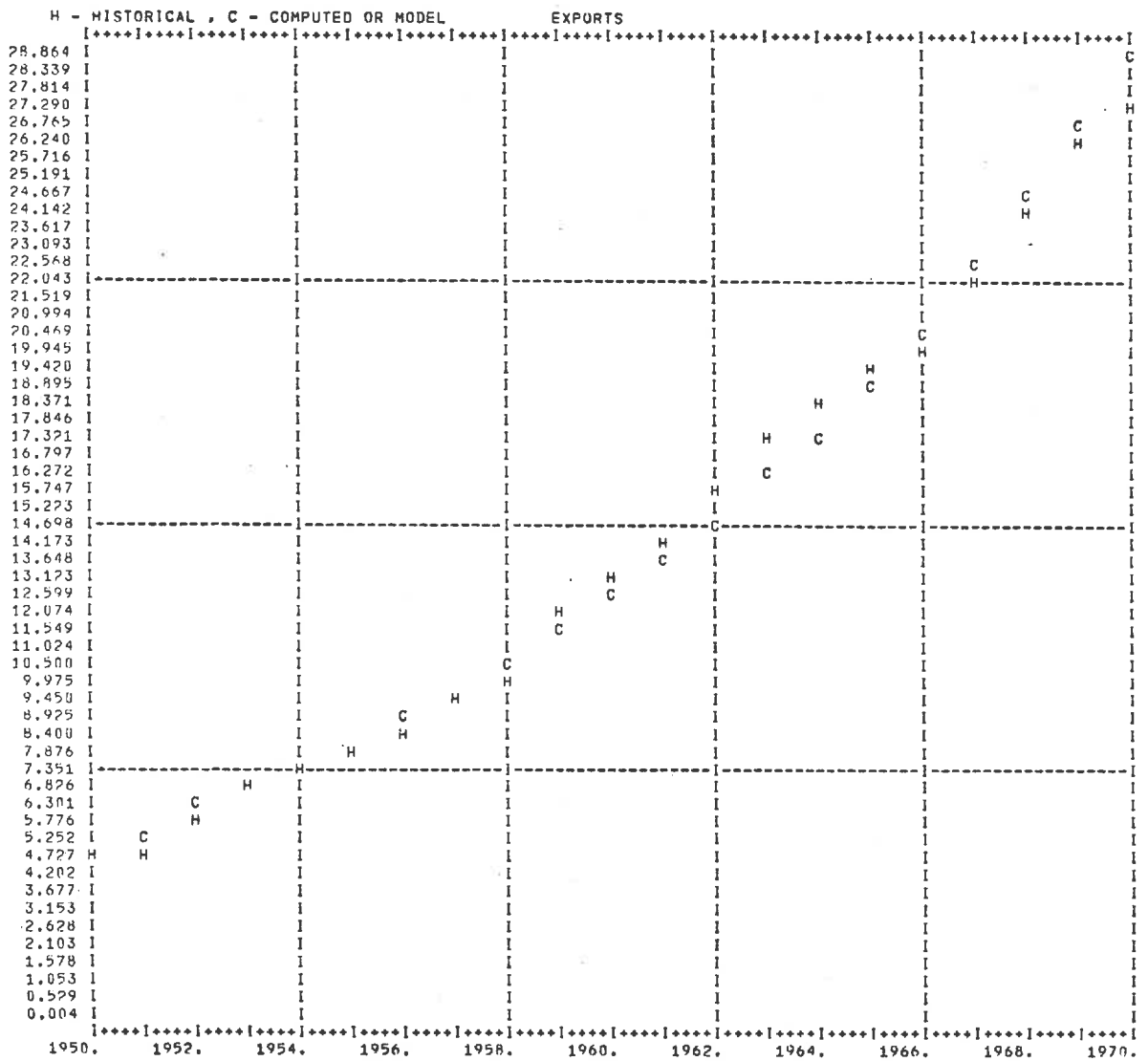
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24.142
23.617
23.093
22.568
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19.945
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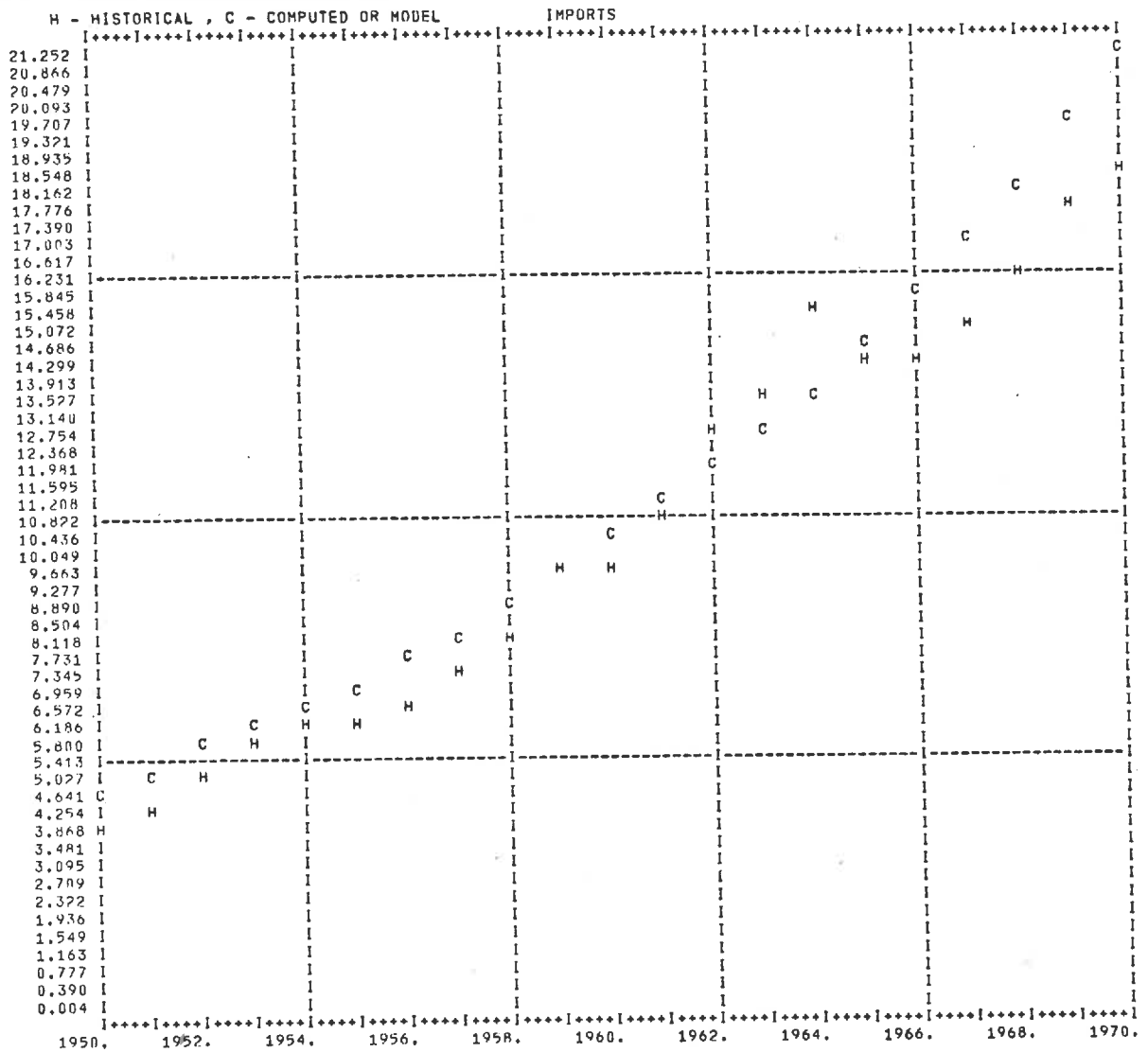
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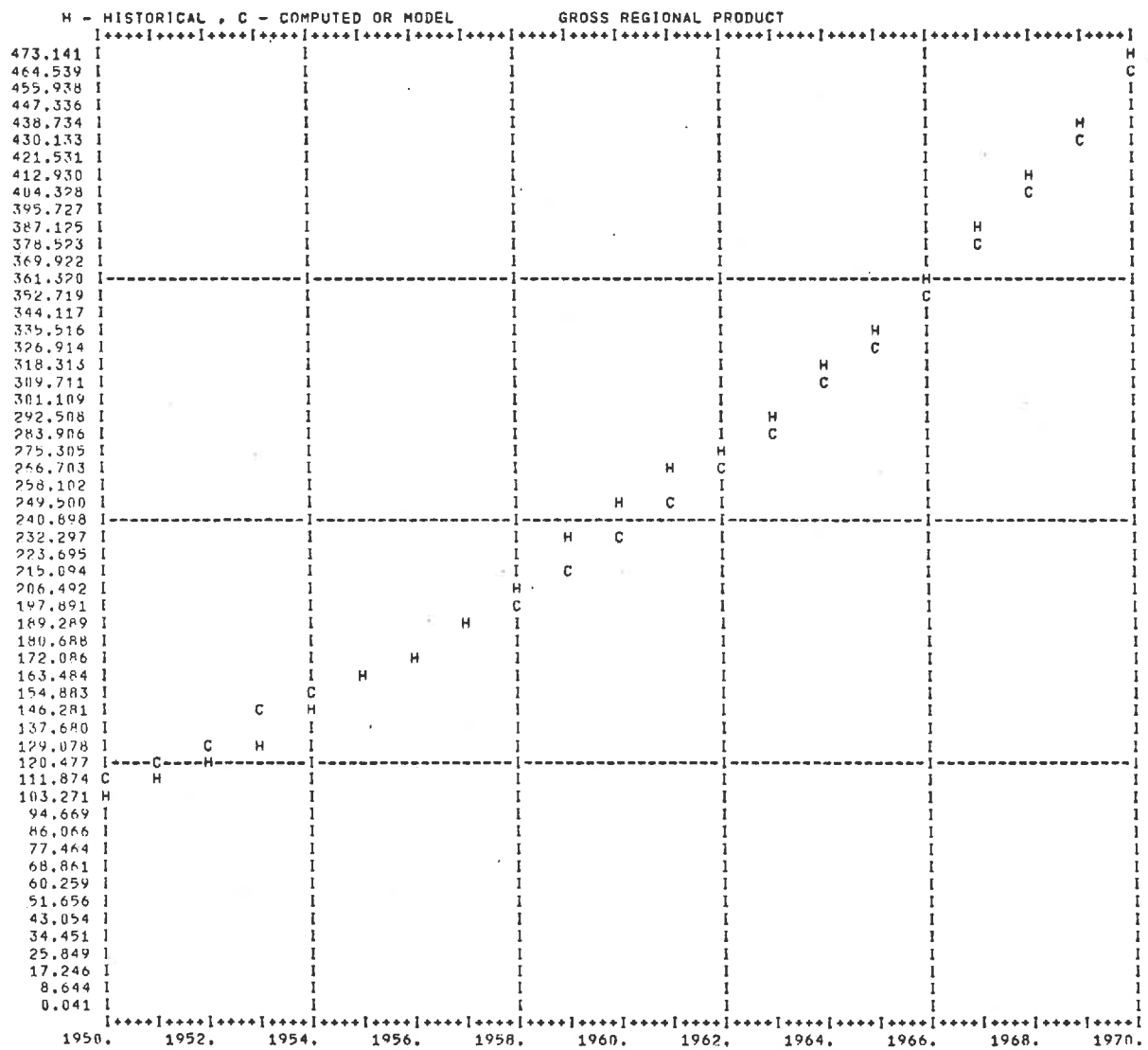
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335.516
326.914
318.313
309.711
301.109
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283.906
275.305
266.703
258.102
249.500
240.898
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223.695
215.094
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197.891
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111.874
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68.861
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1968.
1970.

TABLE

LATIN AMERICA 6

	CC	HC	CI	HI	CG	HG
1950	32.054	30.306	7.095	7.113	4.855	4.507
1951	33.416	32.055	7.423	7.523	5.020	4.767
1952	34.871	33.220	7.774	7.797	5.195	4.940
1953	36.423	34.386	8.149	8.070	5.381	5.114
1954	38.081	37.967	8.550	8.744	5.578	5.599
1955	39.856	41.064	8.979	9.280	5.788	5.998
1956	41.756	42.891	9.440	9.380	6.012	6.051
1957	43.795	45.242	9.934	9.902	6.250	6.446
1958	45.980	48.065	10.465	10.239	6.504	6.611
1959	48.328	48.757	11.036	10.866	6.775	6.988
1960	50.853	50.972	11.651	12.076	7.065	7.112
1961	53.569	54.299	12.314	13.089	7.374	7.528
1962	56.499	56.424	13.030	13.292	7.706	7.750
1963	59.660	58.048	13.804	12.839	8.061	8.223
1964	63.074	63.232	14.641	14.450	8.442	8.759
1965	66.771	66.634	15.549	14.581	8.852	8.813
1966	70.771	69.461	16.534	15.720	9.291	9.373
1967	75.113	72.529	17.604	16.671	9.765	9.546
1968	79.828	76.197	18.769	19.525	10.276	9.608
1969	84.959	81.881	20.037	20.686	10.827	9.922
1970	90.547	87.168	21.422	22.285	11.422	10.604
ERROR	1.78120		0.54574		0.35238	

	CY	HY	CX	HX	CM	HM
1950	42.974	41.964	4.265	4.742	5.295	4.666
1951	44.861	44.385	4.606	5.016	5.606	4.936
1952	46.874	45.999	4.973	5.198	5.938	5.115
1953	49.023	47.613	5.365	5.380	6.295	5.295
1954	51.320	51.648	5.787	5.568	6.677	6.286
1955	53.778	54.876	6.240	5.784	7.086	7.282
1956	56.409	57.297	6.726	5.861	7.525	6.904
1957	59.231	60.525	7.249	6.186	7.997	7.293
1958	62.259	64.560	7.812	6.430	8.502	7.011
1959	65.512	66.174	8.418	7.001	9.046	7.438
1960	69.010	70.209	9.071	10.391	9.630	10.342
1961	72.778	75.051	9.776	10.950	10.258	10.815
1962	76.840	78.279	10.537	11.797	10.932	11.037
1963	81.225	80.700	11.359	12.347	11.660	10.854
1964	85.963	87.156	12.247	12.481	12.443	11.906
1965	91.093	91.998	13.208	14.095	13.288	12.282
1966	96.649	96.033	14.249	14.501	14.197	12.897
1967	102.682	100.068	15.377	14.940	15.179	13.779
1968	109.235	106.524	16.602	16.959	16.242	15.904
1969	116.369	113.787	17.931	17.819	17.385	16.658
1970	124.142	121.050	19.375	18.605	18.625	17.831
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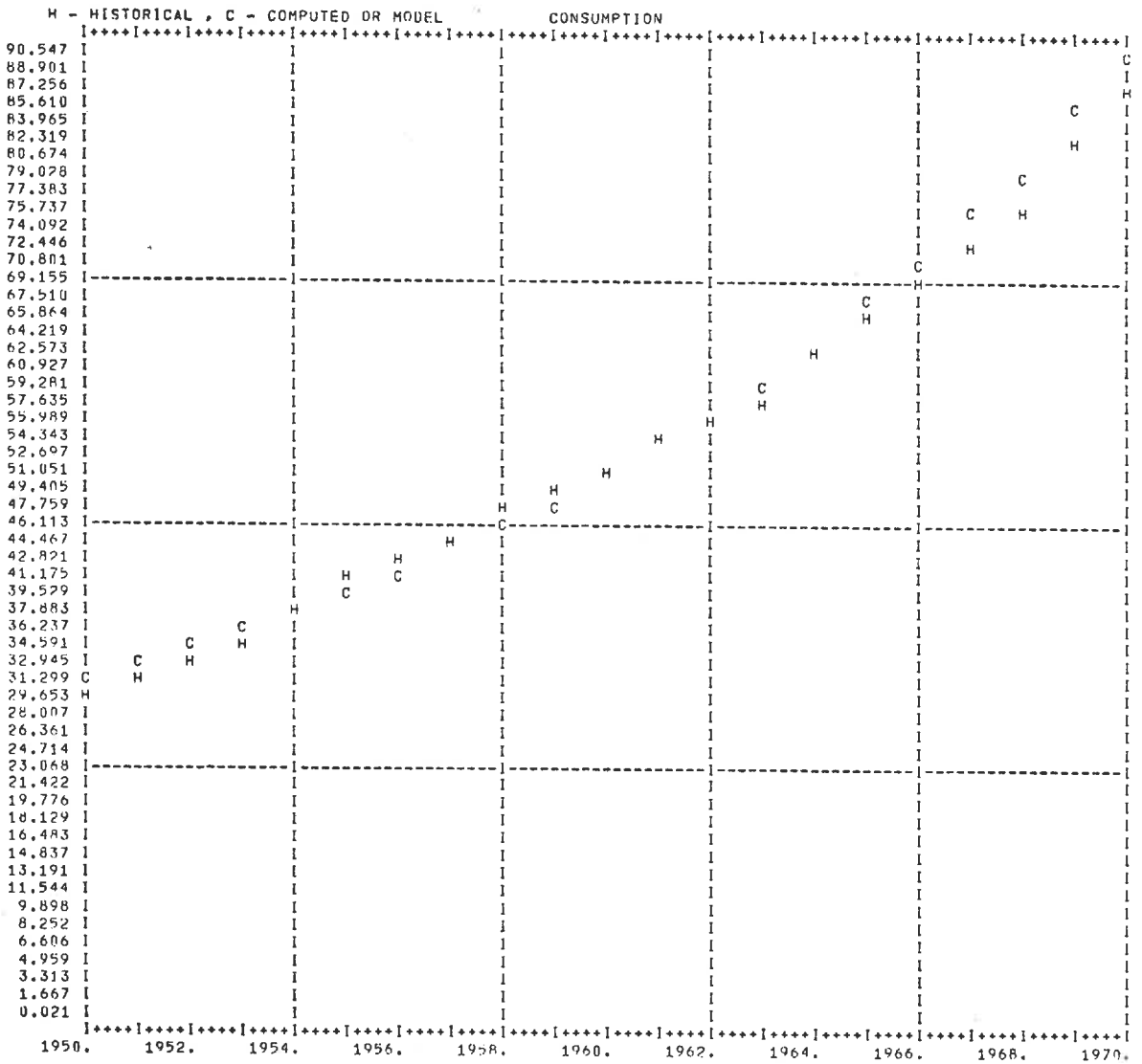
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77.383
75.737
74.092
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70.801
69.155
67.510
65.864
64.219
62.573
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57.635
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51.051
49.405
47.759
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37.883
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32.945
31.299
29.653
28.007
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24.714
23.068
21.422
19.776
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14.837
13.191
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4.959
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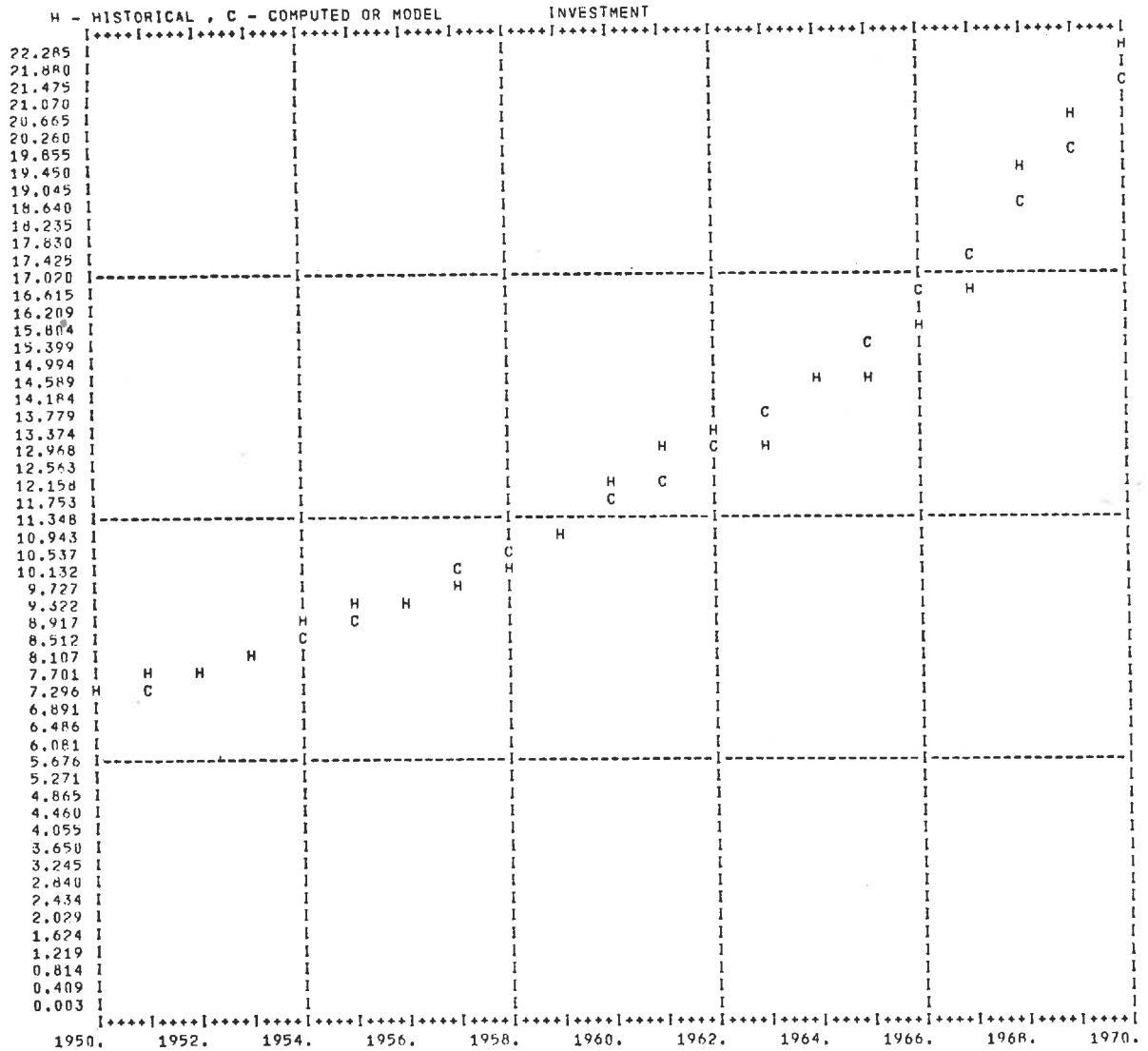
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17.020
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15.399
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10.537
10.132
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9.322
8.917
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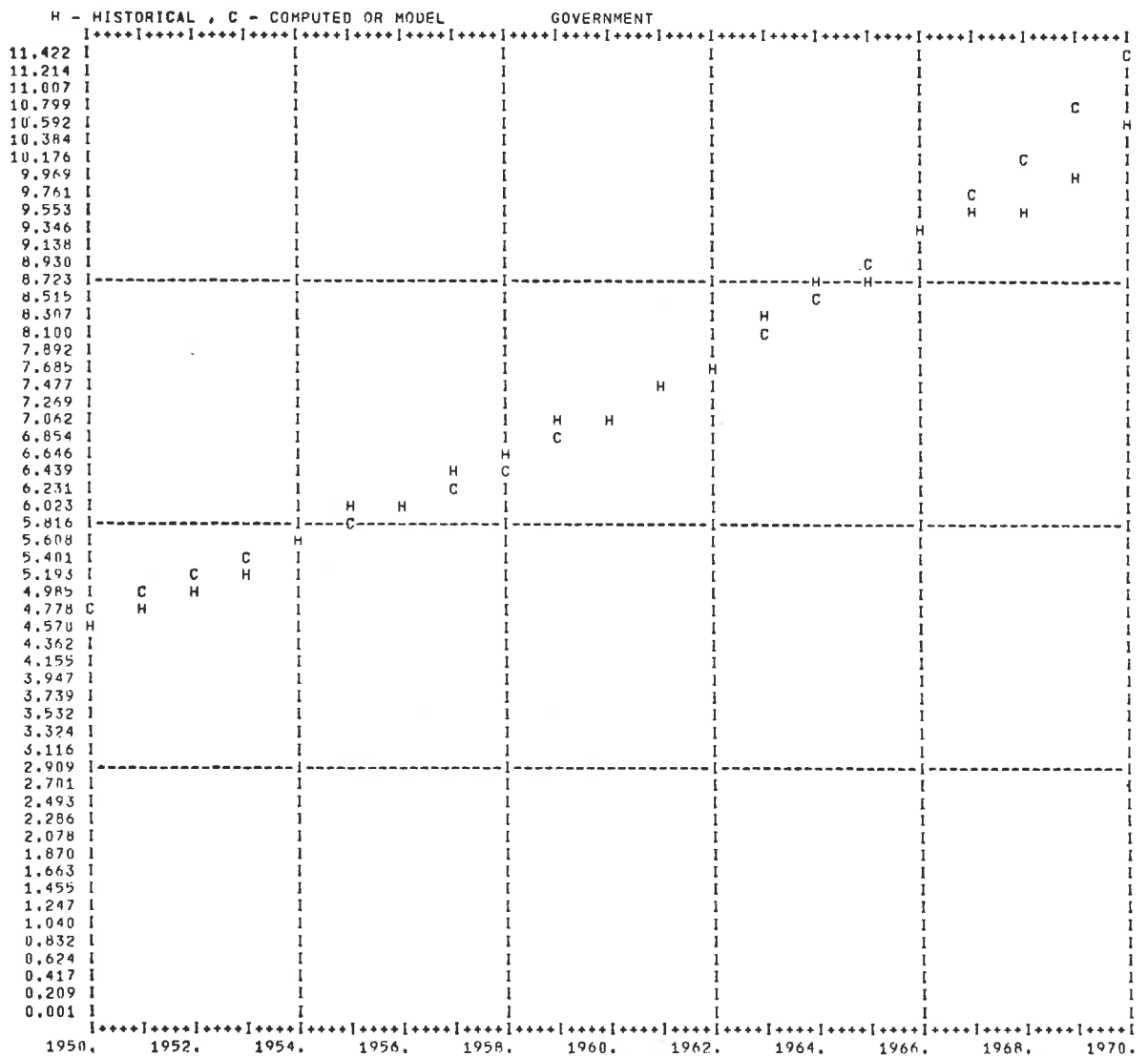
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8.723
8.515
8.307
8.100
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7.685
7.477
7.269
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6.854
6.646
6.439
6.231
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5.816
5.608
5.401
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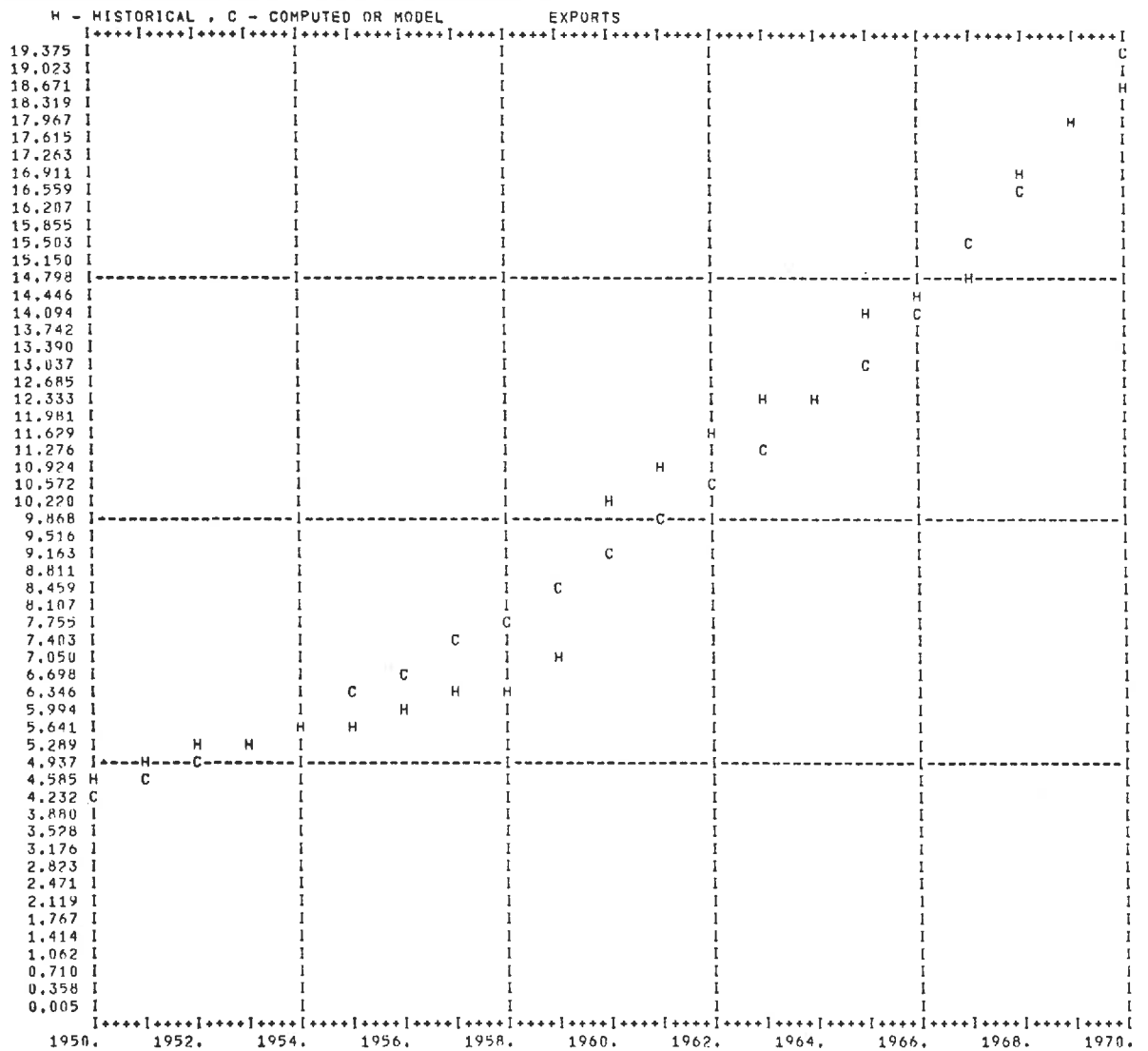
H - HISTORICAL , C - COMPUTED OR MODEL
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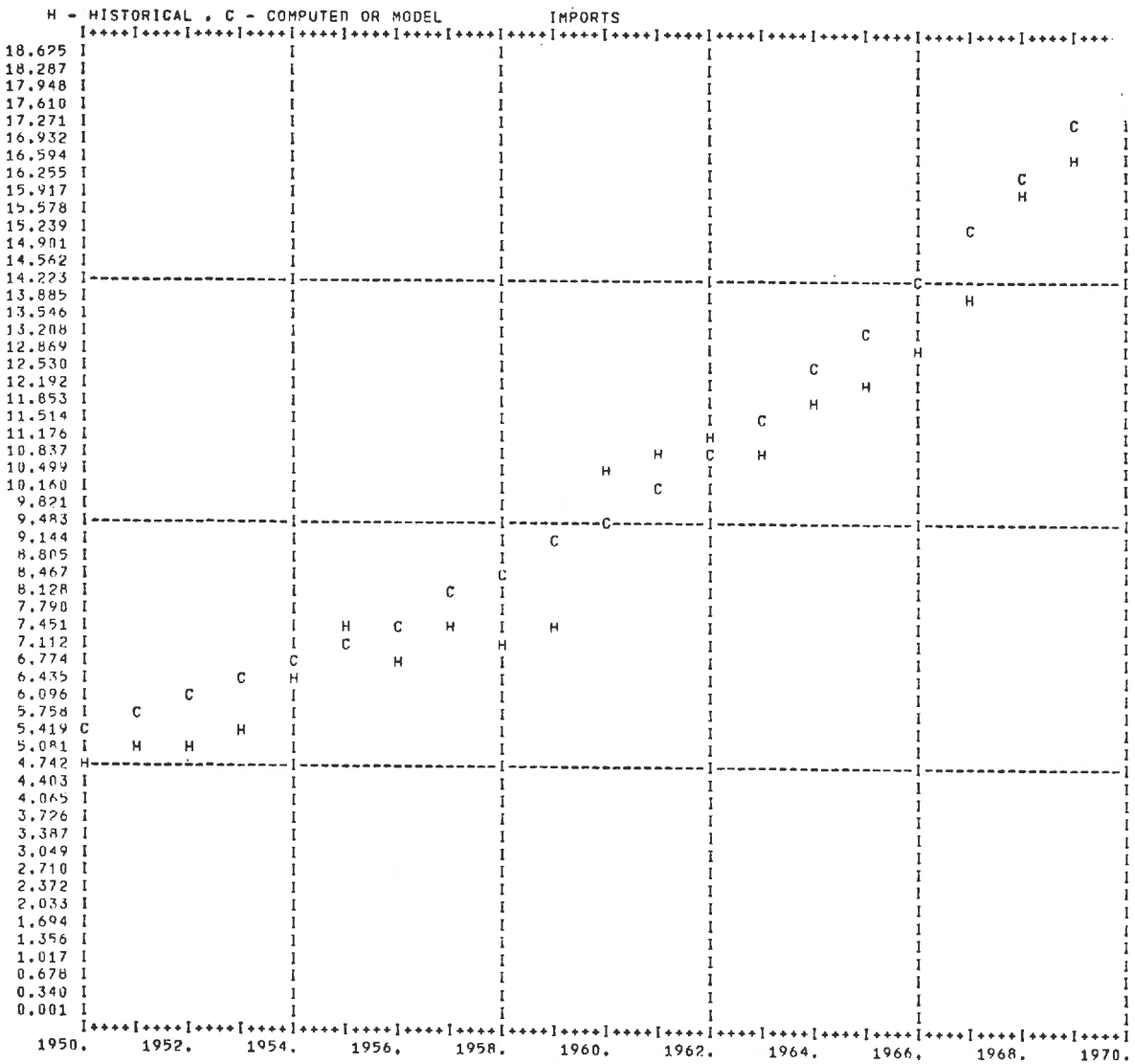
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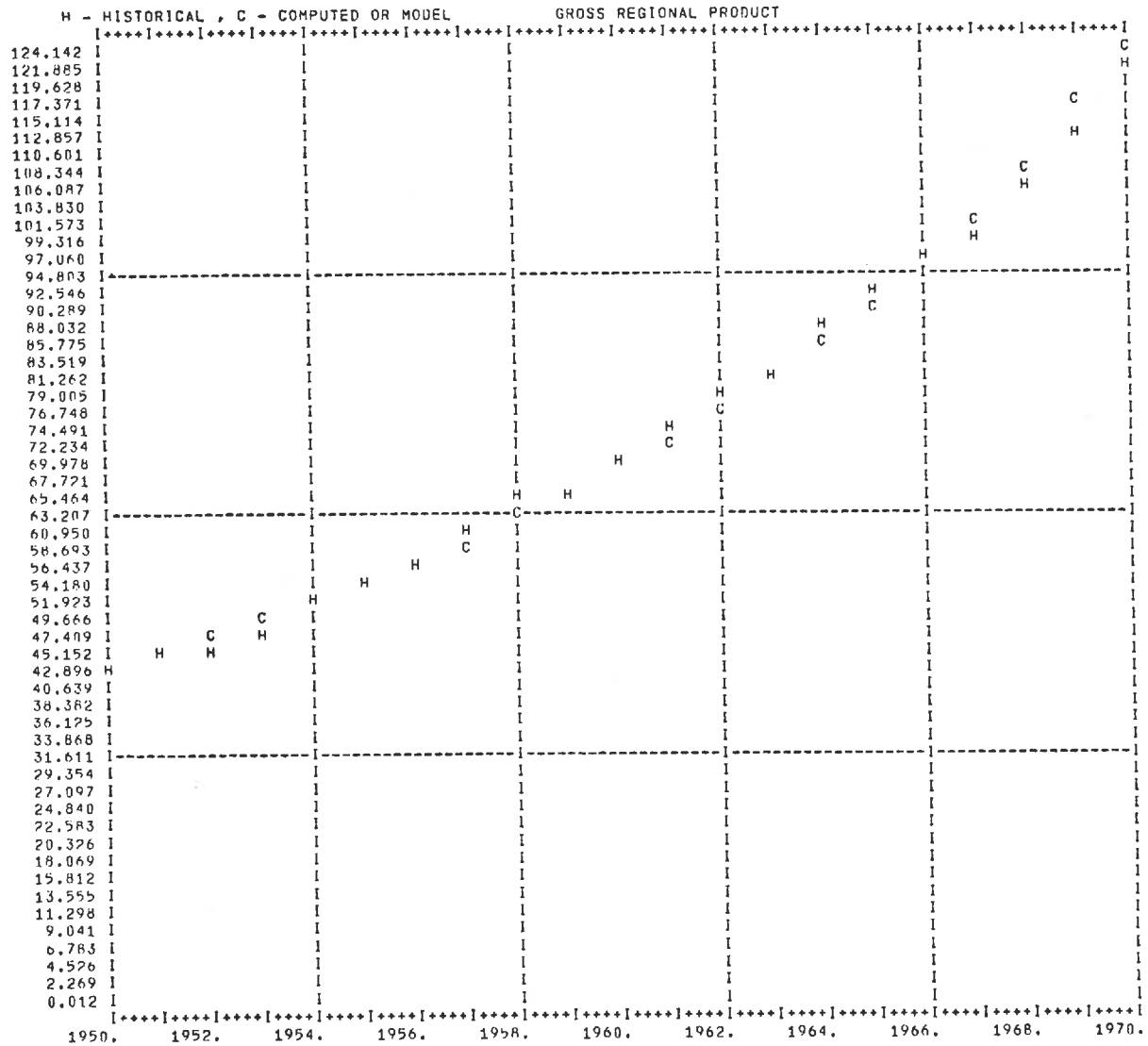
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1964.
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1968.
1970.

TABLE

MIDDLE EAST 7

	CC	HC	CI	HI	CG	HG
1950	10.406	10.502	1.796	2.109	1.307	1.593
1951	10.866	10.965	1.926	2.202	1.450	1.663
1952	11.347	11.463	2.066	2.302	1.607	1.739
1953	11.847	11.962	2.215	2.402	1.776	1.814
1954	12.366	12.460	2.375	2.503	1.961	1.890
1955	12.906	13.046	2.545	2.620	2.160	1.979
1956	13.466	13.449	2.727	2.819	2.377	2.286
1957	14.049	14.414	2.921	2.716	2.612	2.503
1958	14.651	14.346	3.129	2.819	2.867	2.756
1959	15.278	14.760	3.350	2.766	3.142	2.939
1960	15.926	14.487	3.587	3.320	3.440	3.002
1961	16.597	15.870	3.839	3.537	3.763	3.107
1962	17.292	16.519	4.108	3.682	4.111	3.427
1963	18.011	15.898	4.395	4.338	4.488	3.961
1964	18.753	17.021	4.702	4.586	4.895	4.439
1965	19.521	18.309	5.029	5.162	5.334	5.066
1966	20.312	19.024	5.377	5.459	5.808	5.459
1967	21.129	20.230	5.749	5.956	6.320	6.238
1968	21.972	21.435	6.145	6.559	6.871	7.262
1969	22.839	23.099	6.568	6.866	7.466	8.095
1970	23.732	24.611	7.018	7.465	8.107	8.822
ERROR	0.88095		0.28134		0.38383	

	CY	HY	CX	HX	CM	HM
1950	13.245	14.750	4.237	4.528	4.501	3.983
1951	14.058	15.400	4.481	4.728	4.667	4.158
1952	14.919	16.100	4.742	4.943	4.842	4.347
1953	15.831	16.800	5.020	5.158	5.027	4.536
1954	16.796	17.500	5.317	5.373	5.221	4.725
1955	17.818	18.323	5.635	5.625	5.427	4.947
1956	18.900	19.050	5.974	5.848	5.644	5.353
1957	20.045	19.400	6.338	5.044	5.875	5.277
1958	21.257	20.882	6.729	6.828	6.119	5.262
1959	22.540	21.610	7.147	6.894	6.378	4.927
1960	23.897	22.742	7.596	7.459	6.653	5.458
1961	25.333	23.900	8.078	7.457	6.945	6.071
1962	26.853	25.571	8.596	8.285	7.256	6.342
1963	28.460	26.945	9.154	9.161	7.589	6.413
1964	30.161	29.397	9.755	10.024	7.944	6.673
1965	31.961	32.065	10.402	10.902	8.326	7.343
1966	33.864	33.493	11.099	11.455	8.733	7.871
1967	35.877	35.244	11.852	11.208	9.173	8.423
1968	38.007	39.043	12.667	12.923	9.648	9.136
1969	40.259	42.384	13.547	14.538	10.161	10.215
1970	42.641	45.241	14.500	15.472	10.717	11.129
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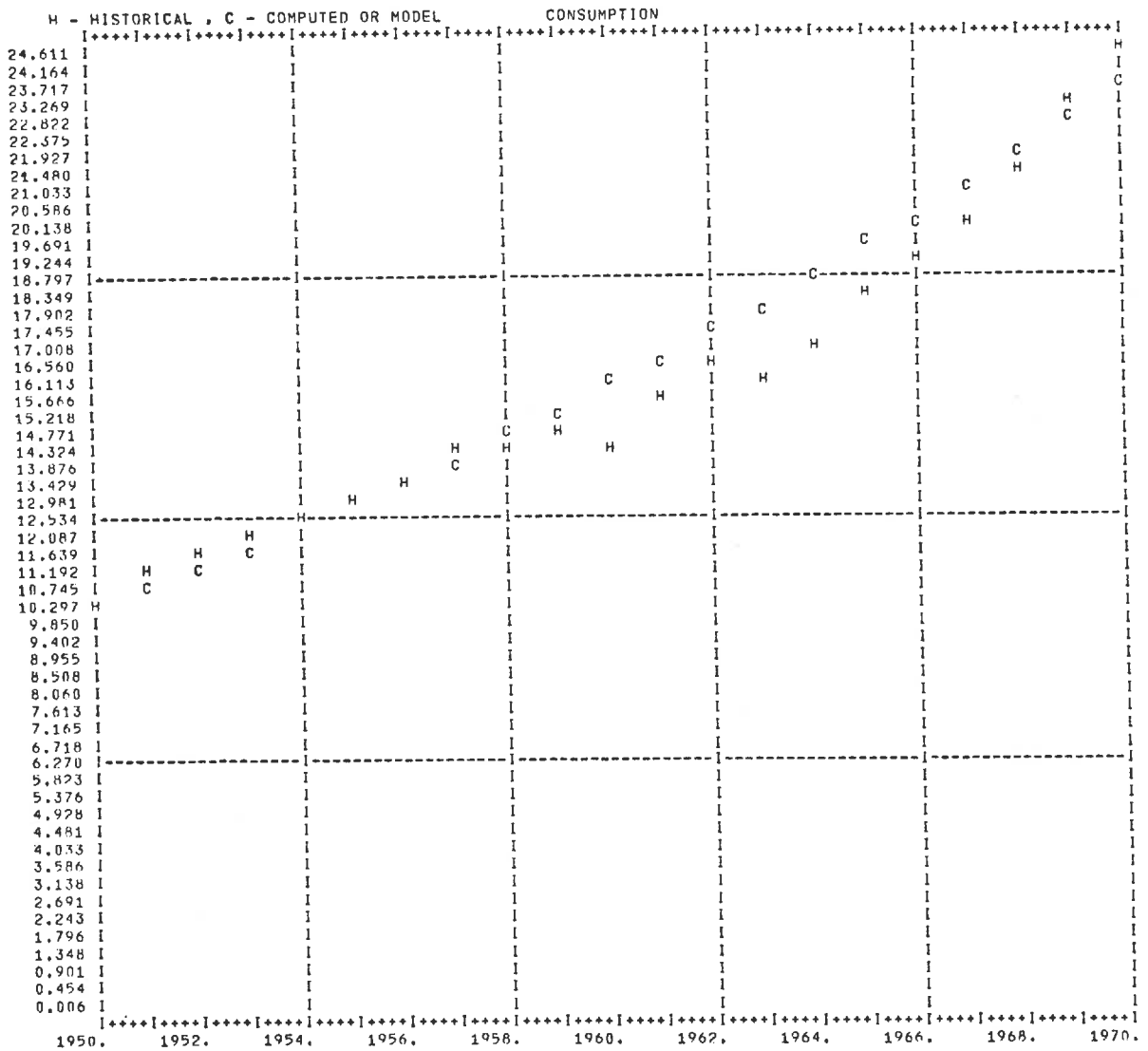
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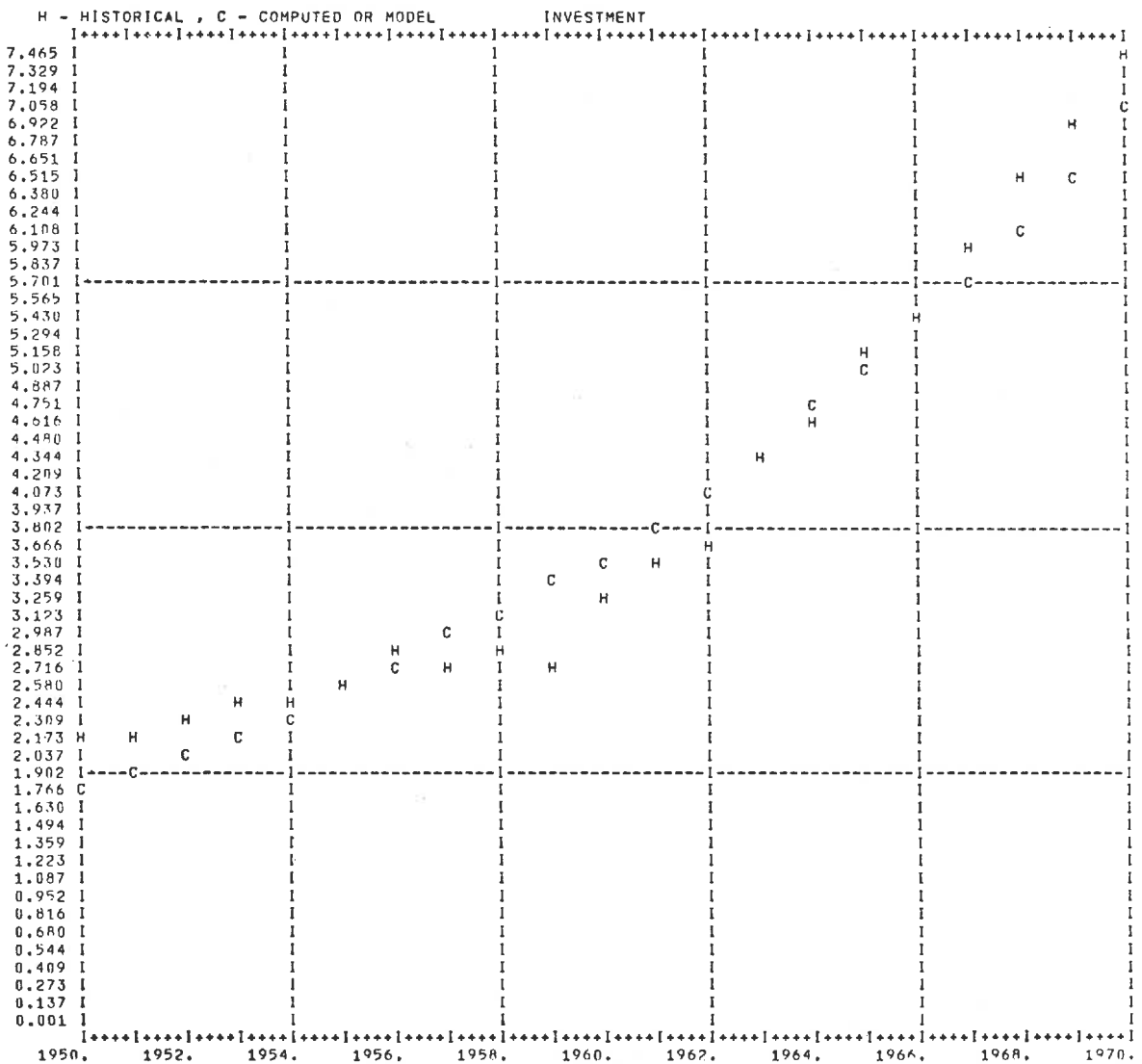
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5.565
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5.158
5.023
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4.073
3.937
3.802
3.666
3.530
3.394
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3.123
2.987
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2.580
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2.309
2.173
2.037
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0.409
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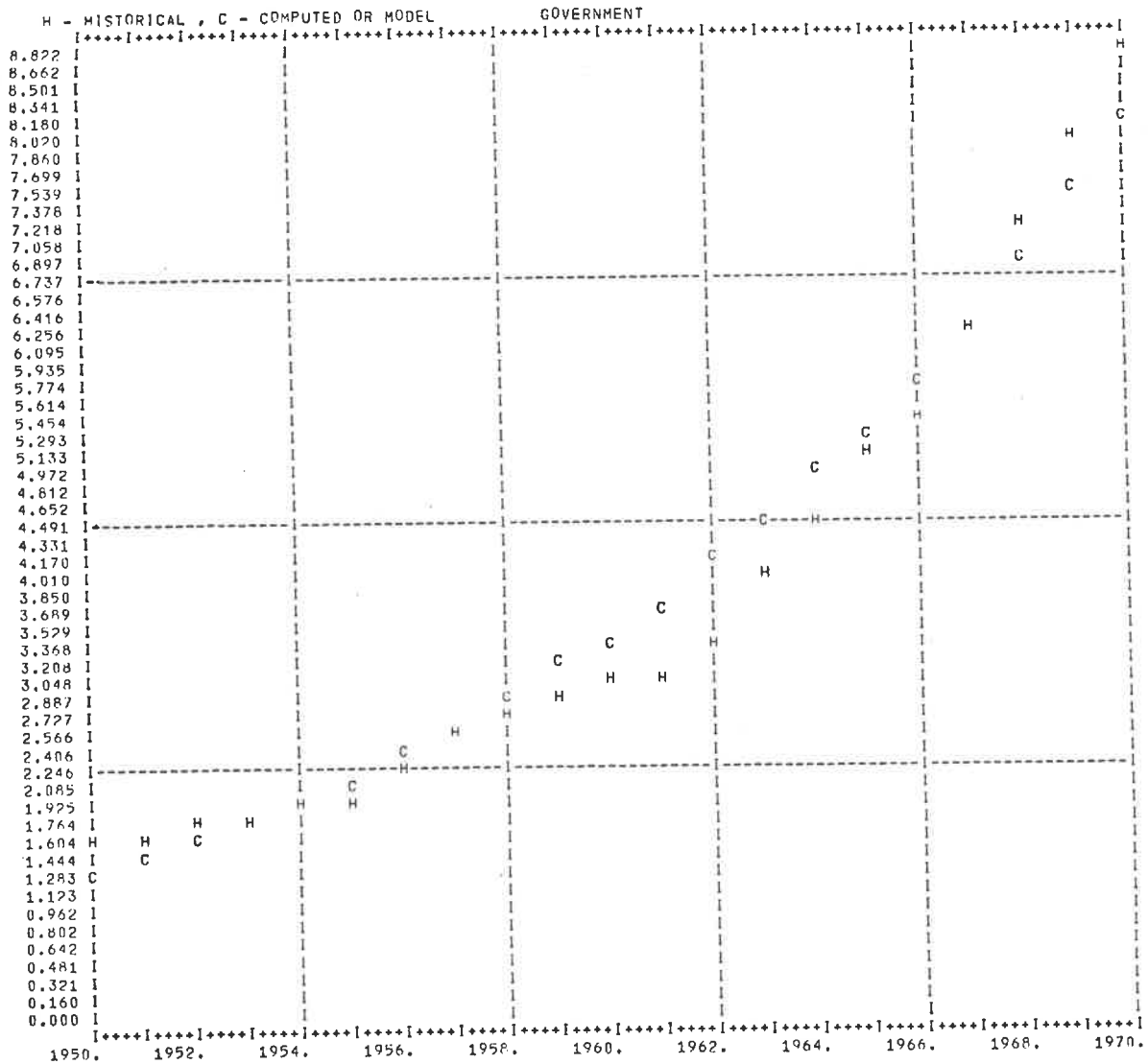
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7.378
7.218
7.058
6.897
6.737
6.576
6.416
6.256
6.095
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5.774
5.614
5.454
5.293
5.133
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4.812
4.652
4.491
4.331
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3.529
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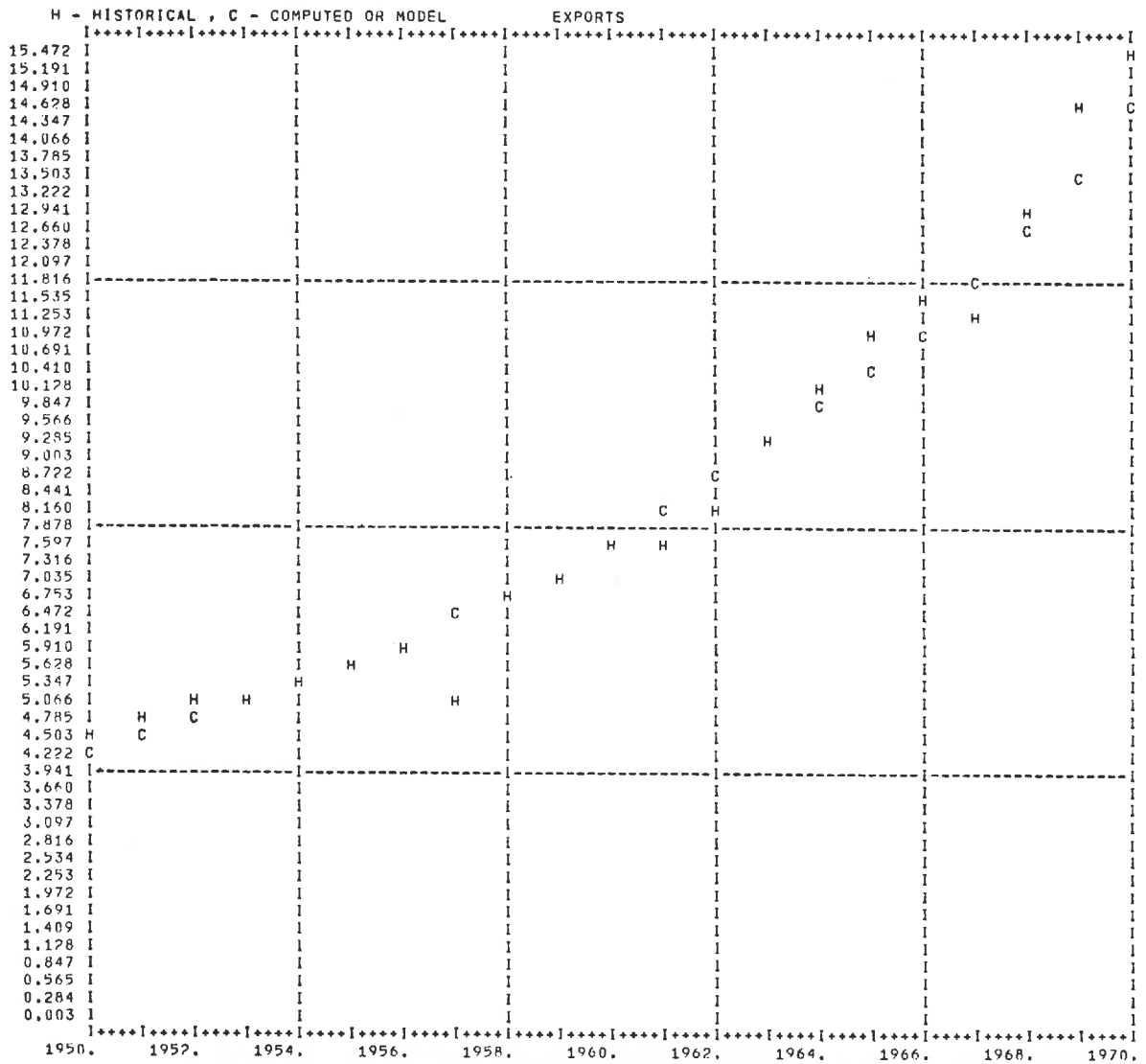
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EXPORTS
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13.222
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12.378
12.097
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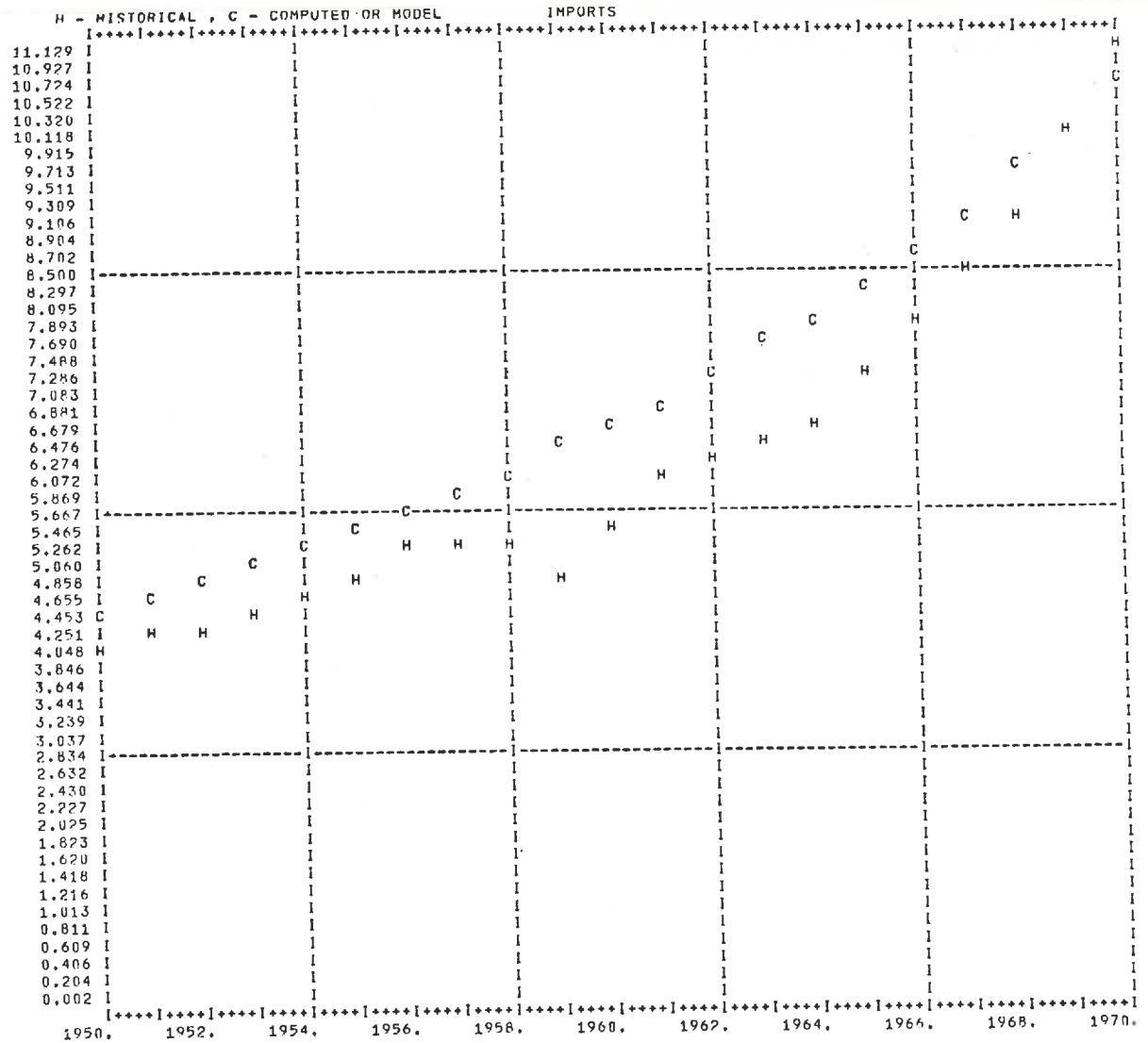
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9.309
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8.702
8.500
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8.095
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7.286
7.083
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6.679
6.476
6.274
6.072
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5.667
5.465
5.262
5.060
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4.655
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4.251
4.048
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3.441
3.239
3.037
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2.632
2.430
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1.620
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0.609
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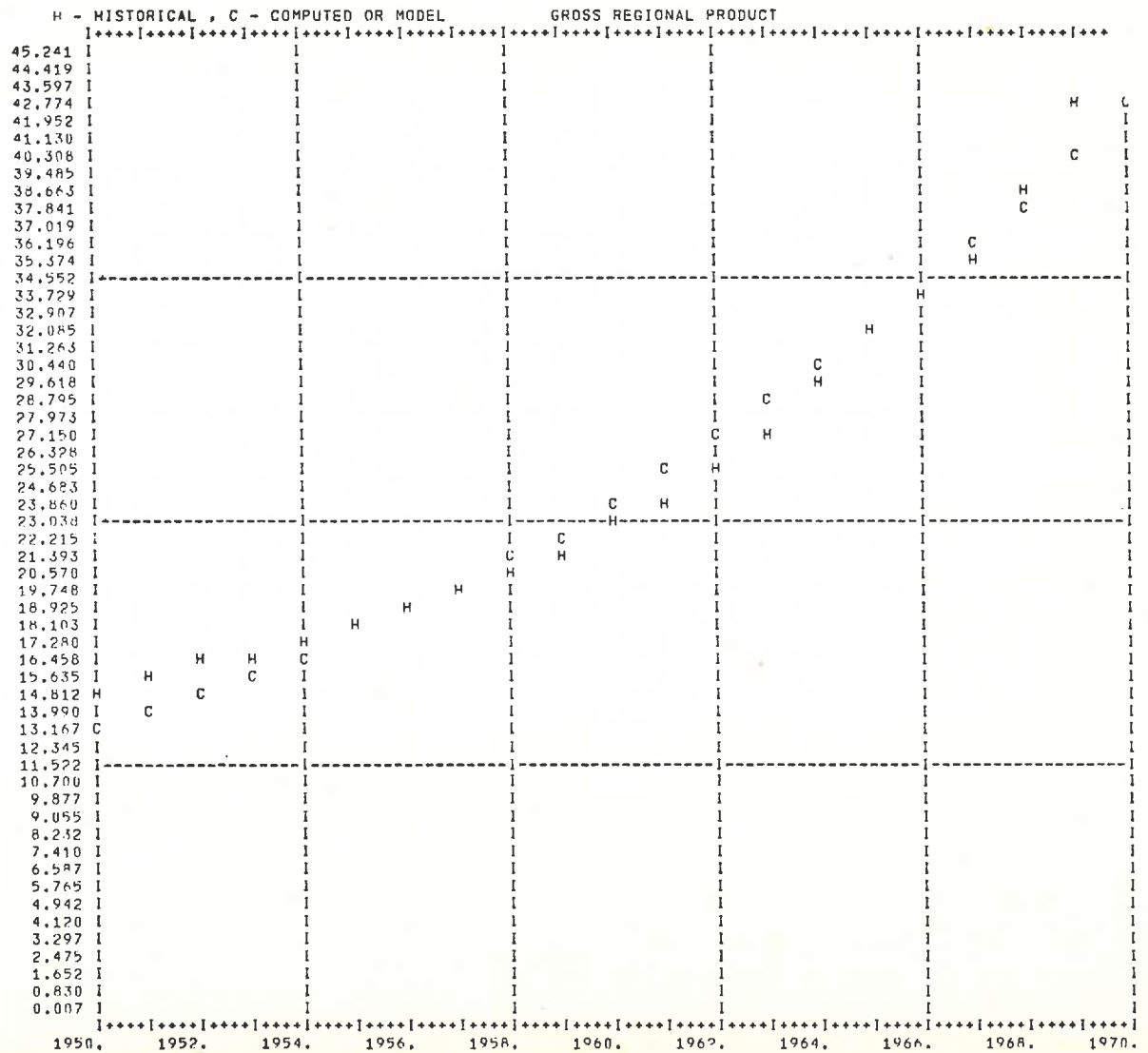
H - HISTORICAL , C - COMPUTED OR MODEL
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39.485
38.663
37.841
37.019
36.196
35.374
34.552
33.729
32.907
32.085
31.263
30.440
29.618
28.795
27.973
27.150
26.328
25.505
24.683
23.860
23.038
22.215
21.393
20.570
19.748
18.925
18.103
17.280
16.458
15.635
14.812
13.990
13.167
12.345
11.522
10.700
9.877
9.055
8.232
7.410
6.587
5.765
4.942
4.120
3.297
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1.652
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1950.
1952.
1954.
1956.
1958.
1960.
1962.
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1968.
1970.

TABLE

MAIN AFRICA 8

	CC	HC	CI	HI	CG	HG
1950	9.006	8.310	1.530	1.537	0.866	0.912
1951	9.387	8.759	1.610	1.620	0.932	0.961
1952	9.792	9.232	1.694	1.708	1.004	1.013
1953	10.220	9.731	1.784	1.800	1.081	1.067
1954	10.675	10.256	1.880	1.897	1.164	1.125
1955	11.157	10.810	1.982	1.999	1.254	1.186
1956	11.668	11.394	2.091	2.107	1.350	1.250
1957	12.213	12.009	2.207	2.221	1.454	1.317
1958	12.789	12.649	2.331	2.339	1.567	1.388
1959	13.404	13.192	2.463	2.587	1.689	1.569
1960	14.057	14.690	2.605	2.734	1.820	1.697
1961	14.751	14.743	2.757	2.761	1.962	1.841
1962	15.491	15.092	2.919	2.565	2.116	1.889
1963	16.279	15.568	3.093	2.766	2.283	2.116
1964	17.118	16.707	3.279	3.105	2.463	2.390
1965	18.015	17.184	3.479	3.583	2.659	2.711
1966	18.970	18.005	3.694	3.740	2.871	2.823
1967	19.991	19.092	3.924	4.072	3.102	3.120
1968	21.083	19.969	4.172	4.287	3.352	3.319
1969	22.250	21.080	4.439	4.394	3.624	3.563
1970	23.498	22.136	4.726	4.833	3.920	3.835
ERROR	0.69128		0.13050		0.10162	

	CY	HY	CX	HX	CM	HM
1950	10.735	10.600	2.037	2.109	2.704	2.268
1951	11.267	11.172	2.173	2.223	2.835	2.391
1952	11.832	11.776	2.318	2.343	2.976	2.520
1953	12.433	12.412	2.474	2.470	3.127	2.656
1954	13.072	13.082	2.640	2.603	3.287	2.800
1955	13.752	13.788	2.819	2.744	3.459	2.951
1956	14.476	14.533	3.010	2.892	3.644	3.110
1957	15.247	15.318	3.216	3.048	3.843	3.278
1958	16.070	16.134	3.436	3.211	4.054	3.453
1959	16.947	17.244	3.674	3.794	4.283	3.897
1960	17.884	18.858	3.928	3.960	4.527	4.243
1961	18.884	19.172	4.203	4.007	4.789	4.180
1962	19.953	19.884	4.498	4.156	5.072	3.818
1963	21.097	20.953	4.817	4.756	5.375	4.253
1964	22.321	22.336	5.161	5.718	5.701	5.584
1965	23.632	23.572	5.532	6.270	6.054	6.176
1966	25.036	24.766	5.933	6.315	6.432	6.018
1967	26.542	26.443	6.367	6.452	6.842	6.241
1968	28.159	27.658	6.837	6.666	7.286	6.583
1969	29.895	29.690	7.346	7.244	7.764	6.591
1970	31.760	31.178	7.899	7.576	8.282	7.202
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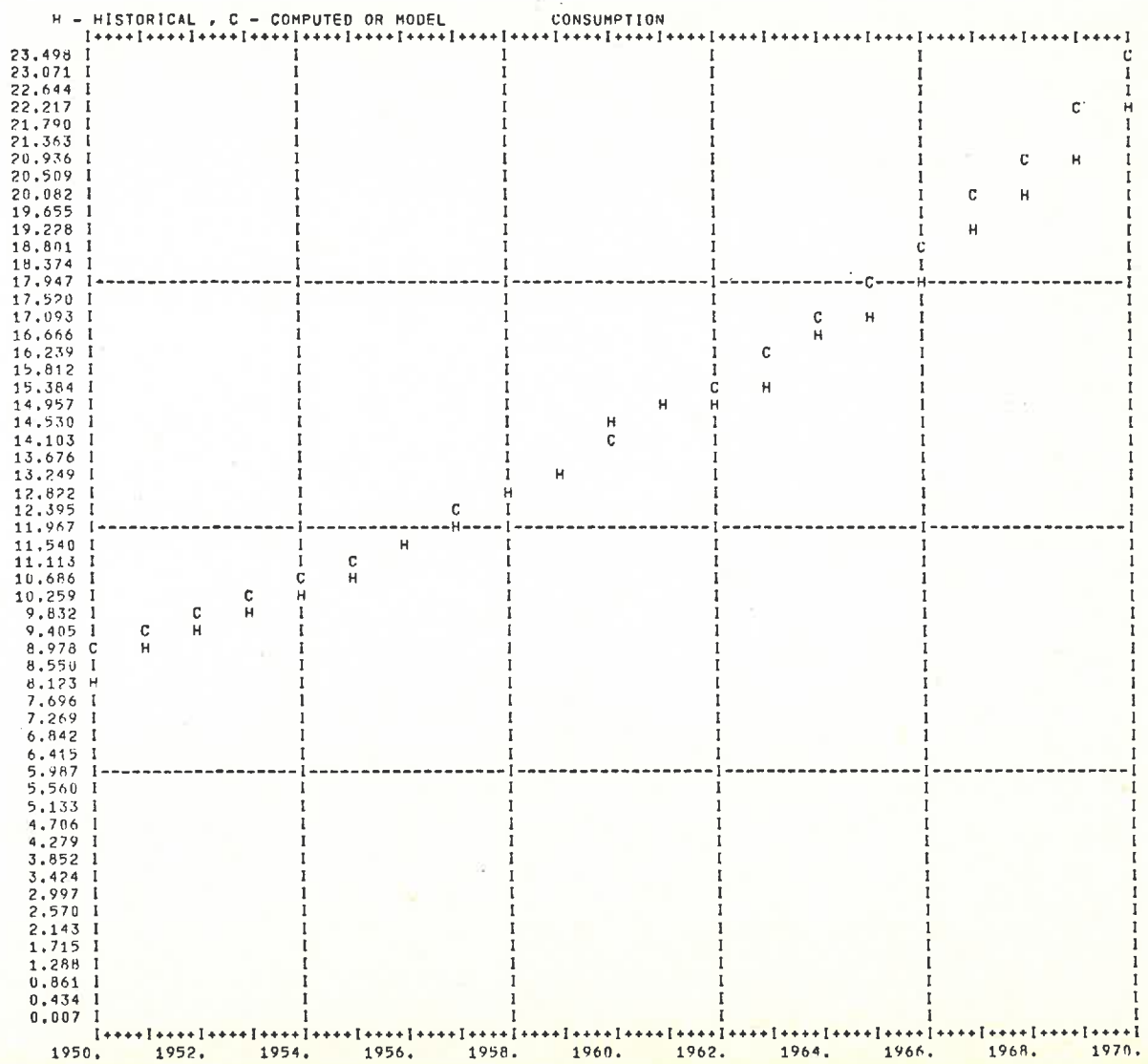
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20.509
20.082
19.655
19.228
18.801
18.374
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17.520
17.093
16.666
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15.812
15.384
14.957
14.530
14.103
13.676
13.249
12.822
12.395
11.967
11.540
11.113
10.686
10.259
9.832
9.405
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8.550
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7.269
6.842
6.415
5.987
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3.424
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2.570
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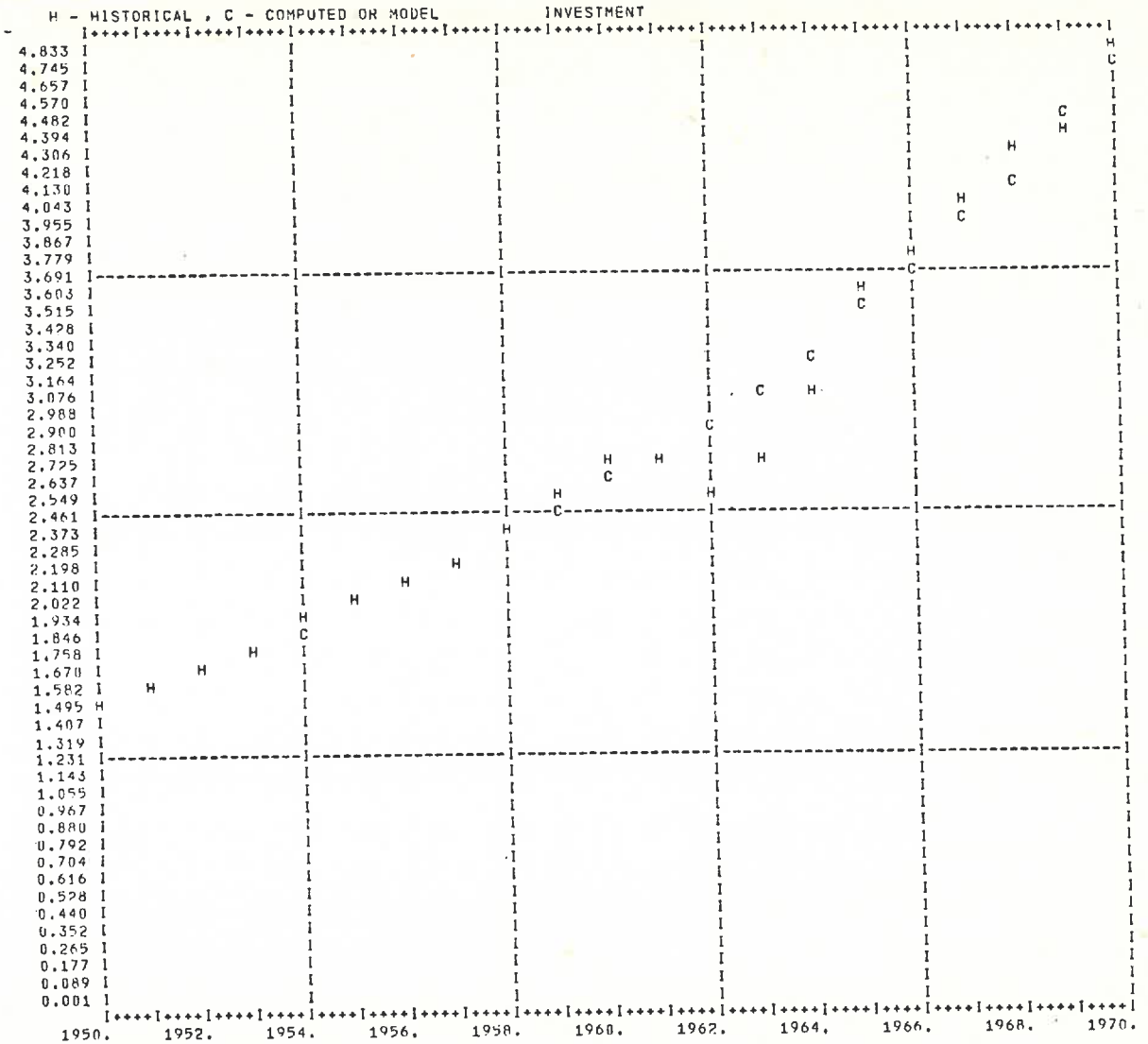
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4.218
4.130
4.043
3.955
3.867
3.779
3.691
3.603
3.515
3.428
3.340
3.252
3.164
3.076
2.988
2.900
2.813
2.725
2.637
2.549
2.461
2.373
2.285
2.198
2.110
2.022
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1.495
1.407
1.319
1.231
1.143
1.055
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0.880
0.792
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0.616
0.528
0.440
0.352
0.265
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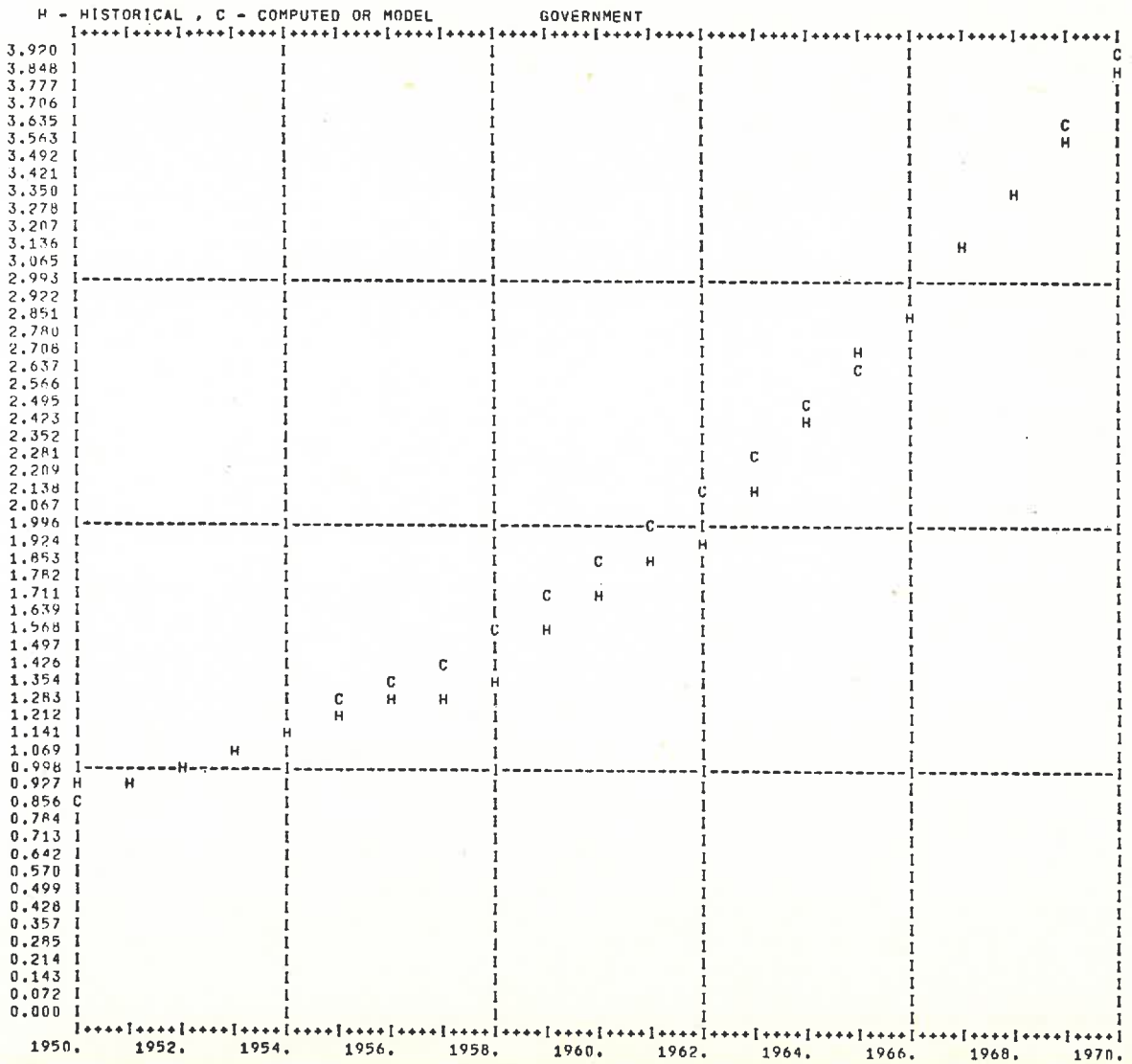
H - HISTORICAL , C - COMPUTED OR MODEL
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0.428
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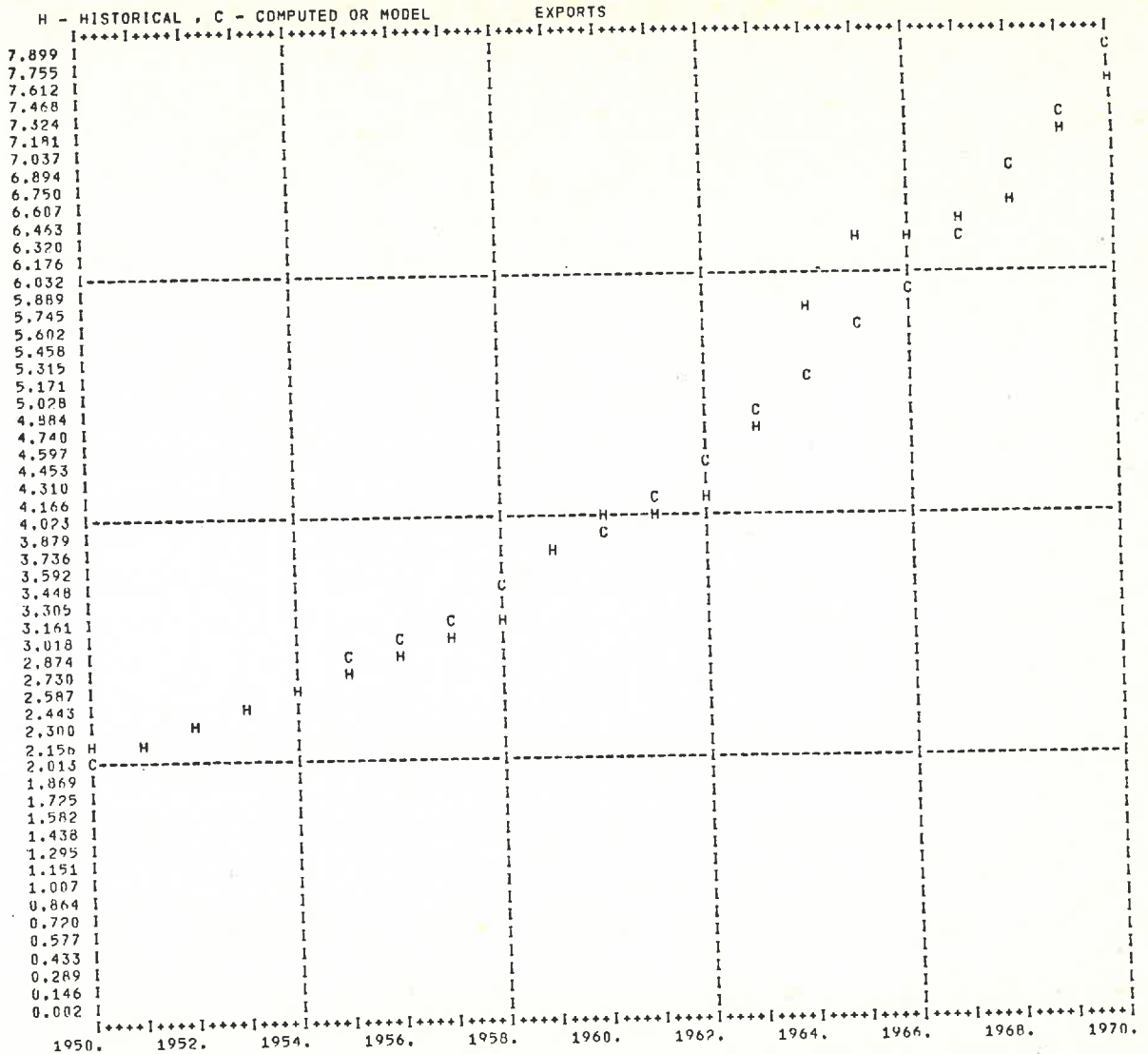
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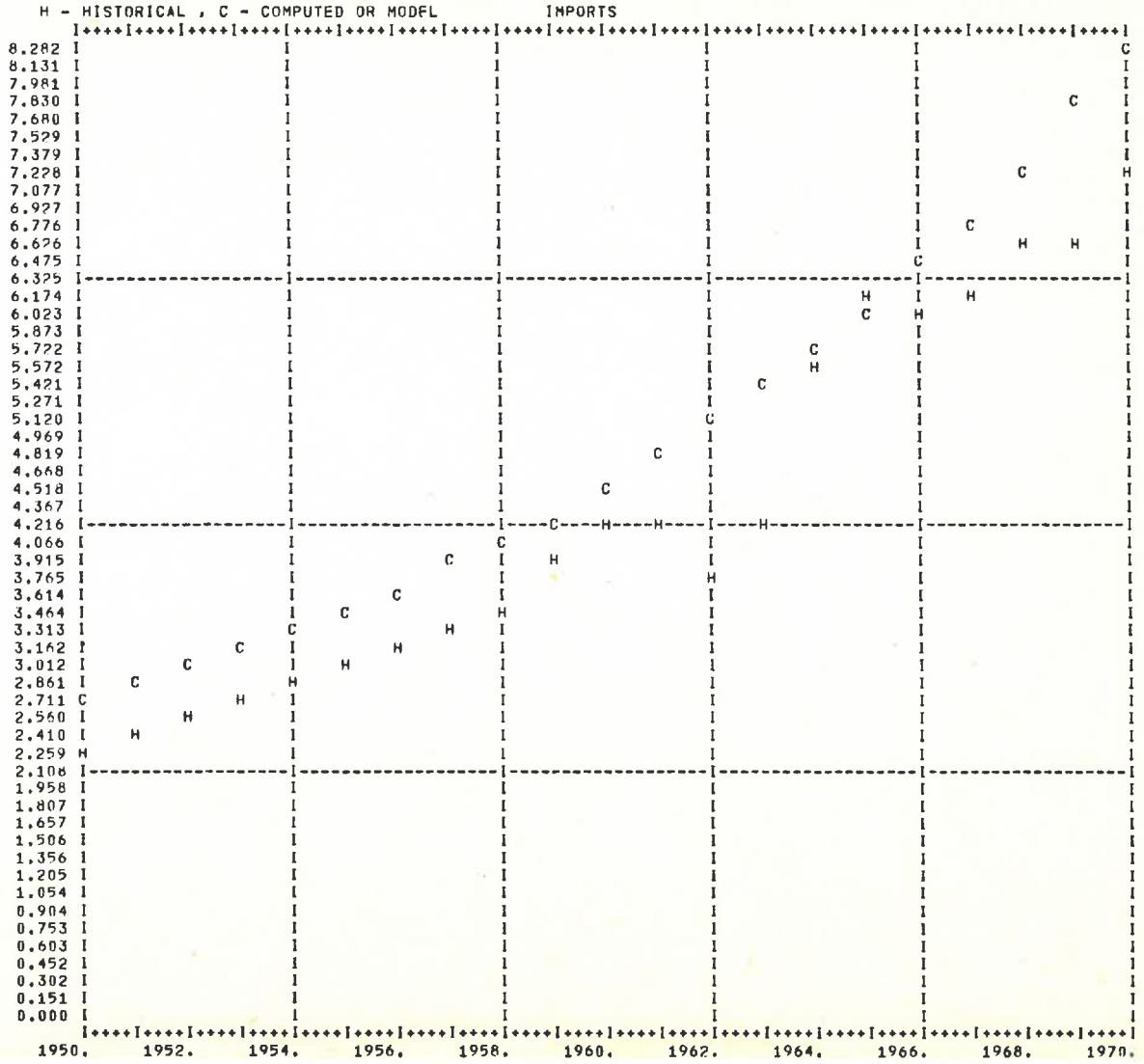
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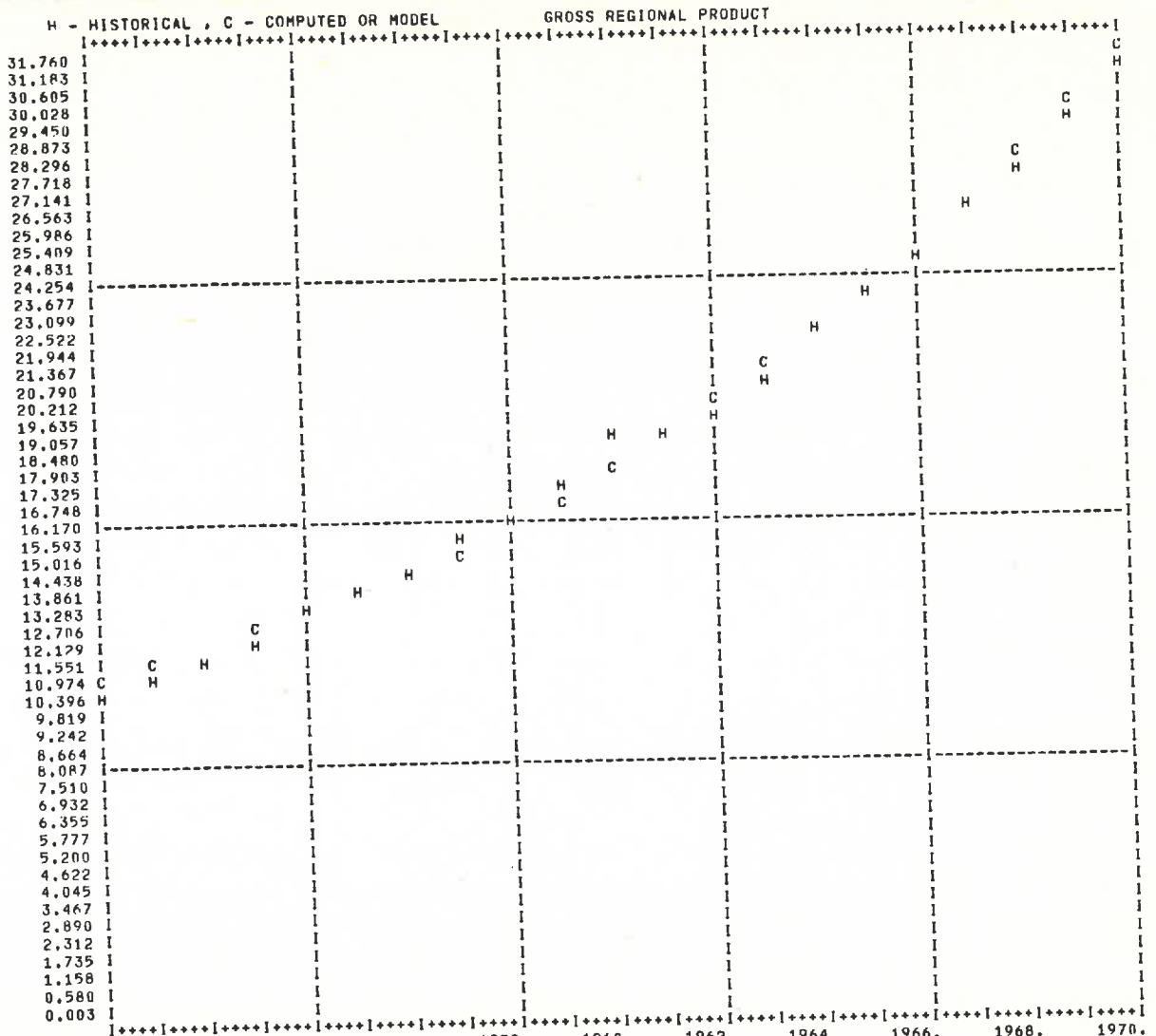
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1950.
1952.
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TABLE

S. E. ASIA 9

	CC	HC	CI	HI	CG	HG
1950	45.292	43.778	5.490	5.214	3.689	3.665
1951	46.597	45.476	5.838	5.231	3.918	3.790
1952	47.983	46.636	6.210	5.678	4.162	4.024
1953	49.453	50.575	6.606	5.891	4.422	4.344
1954	51.012	51.021	7.029	6.738	4.698	4.778
1955	52.662	51.534	7.479	7.749	4.994	4.914
1956	54.407	53.333	7.960	9.310	5.309	5.121
1957	56.251	53.833	8.472	9.500	5.645	5.188
1958	58.197	56.350	9.018	9.660	6.003	5.950
1959	60.254	58.318	9.601	9.950	6.385	6.101
1960	62.422	62.678	10.222	9.856	6.793	6.853
1961	64.707	64.481	10.885	11.109	7.228	7.406
1962	67.115	67.165	11.593	11.554	7.692	7.564
1963	69.654	68.950	12.347	12.688	8.187	8.488
1964	72.328	73.922	13.152	13.171	8.715	8.997
1965	75.143	72.160	14.011	13.913	9.279	9.368
1966	78.107	76.038	14.928	14.245	9.880	9.625
1967	81.230	82.807	15.907	15.178	10.522	10.119
1968	84.518	83.692	16.951	16.760	11.208	11.102
1969	87.977	88.261	18.066	18.455	11.940	12.036
1970	91.617	92.615	19.255	19.199	12.721	12.558
ERROR	1.42470		0.54829		0.20550	

	CY	HY	CX	HX	CM	HM
1950	52.966	51.625	4.481	4.285	5.986	5.369
1951	54.753	53.375	4.623	5.391	6.223	6.512
1952	56.652	55.125	4.772	4.410	6.476	5.623
1953	58.667	59.500	4.930	4.344	6.745	5.653
1954	60.806	61.250	5.097	5.023	7.031	6.309
1955	63.072	63.000	5.273	5.292	7.336	6.552
1956	65.473	66.500	5.458	6.318	7.661	7.581
1957	68.014	67.375	5.654	6.872	8.009	8.018
1958	70.704	70.000	5.861	5.880	8.377	7.840
1959	73.549	72.625	6.080	6.101	8.771	7.916
1960	76.558	77.000	6.312	5.621	9.190	8.085
1961	79.739	80.500	6.558	5.957	9.639	8.533
1962	83.102	83.125	6.818	5.985	10.117	9.227
1963	86.655	87.500	7.093	6.388	10.628	9.100
1964	90.409	92.750	7.385	6.493	11.172	9.832
1965	94.376	92.750	7.696	7.142	11.754	9.646
1966	98.568	96.250	8.025	8.278	12.374	12.031
1967	102.997	103.250	8.375	8.880	13.040	13.732
1968	107.676	106.750	8.748	9.074	13.749	13.771
1969	112.618	114.625	9.145	9.858	14.510	13.984
1970	117.840	120.750	9.568	11.351	15.322	15.094
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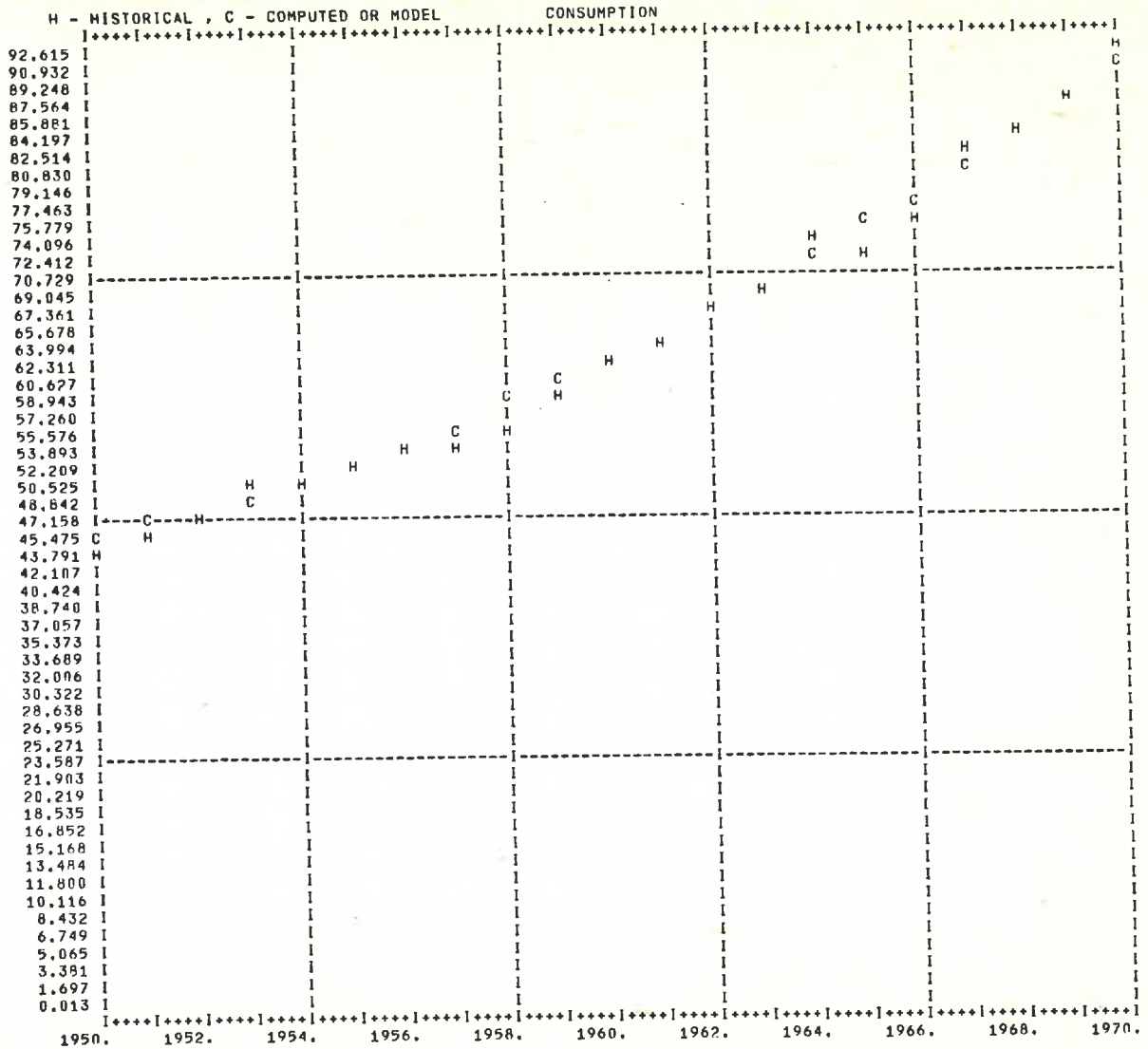
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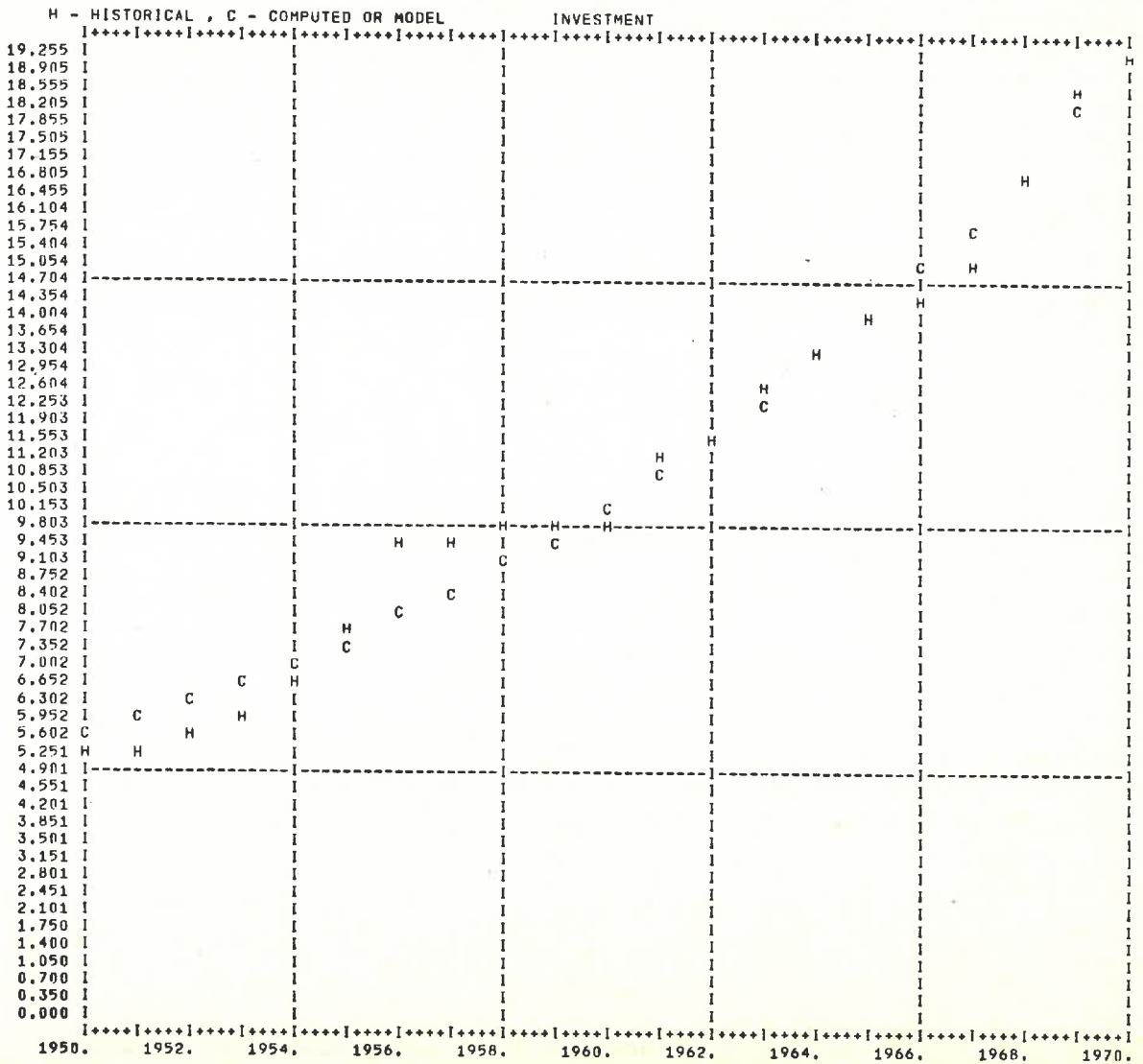
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
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16.455
16.104
15.754
15.404
15.054
14.704
14.354
14.004
13.654
13.304
12.954
12.604
12.253
11.903
11.553
11.203
10.853
10.503
10.153
9.803
9.453
9.103
8.752
8.402
8.052
7.702
7.352
7.002
6.652
6.302
5.952
5.602
5.251
4.901
4.551
4.201
3.851
3.501
3.151
2.801
2.451
2.101
1.750
1.400
1.050
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1950.
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1960.
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1966.
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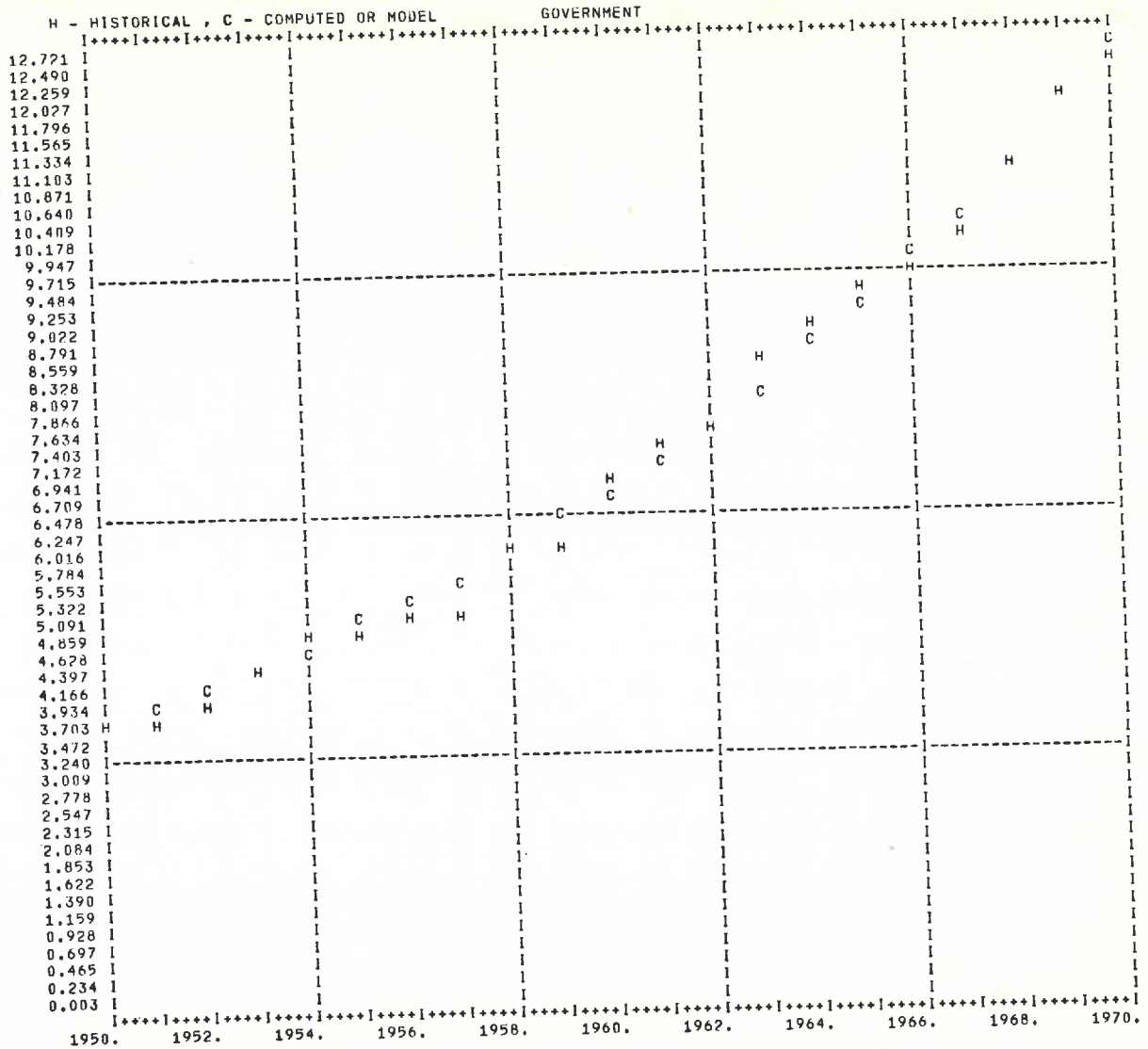
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
GOVERNMENT
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11.334
11.103
10.871
10.640
10.409
10.178
9.947
9.715
9.484
9.253
9.022
8.791
8.559
8.328
8.097
7.866
7.634
7.403
7.172
6.941
6.709
6.478
6.247
6.016
5.784
5.553
5.322
5.091
4.859
4.628
4.397
4.166
3.934
3.703
3.472
3.240
3.009
2.778
2.547
2.315
2.084
1.853
1.622
1.390
1.159
0.928
0.697
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0.003
1950.
1952.
1954.
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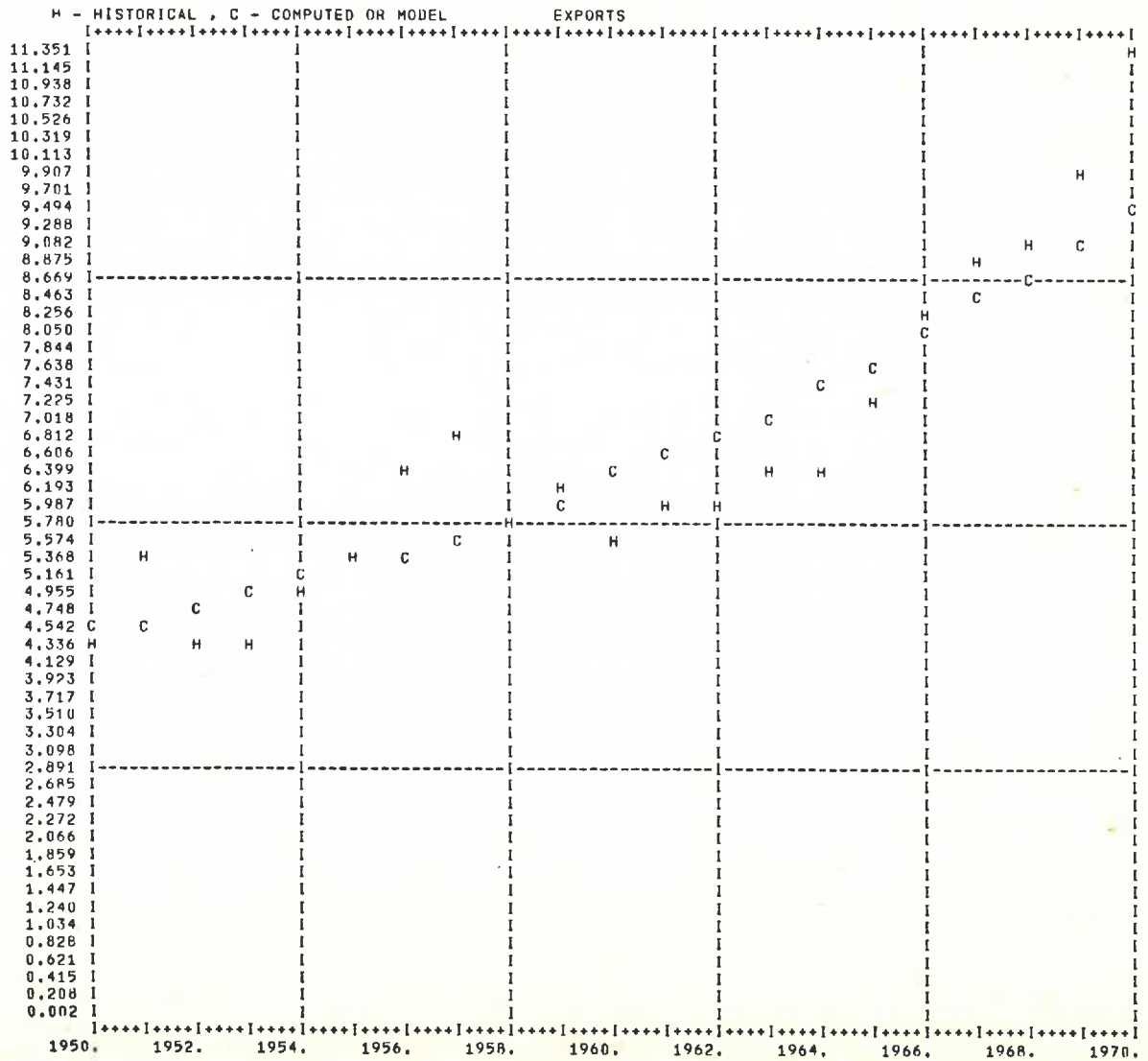
1958.
1960.
1962.
1964.
1966.
1968.
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
EXPORTS
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10.319
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9.907
9.701
9.494
9.288
9.082
8.875
8.669
8.463
8.256
8.050
7.844
7.638
7.431
7.225
7.018
6.812
6.606
6.399
6.193
5.987
5.780
5.574
5.368
5.161
4.955
4.748
4.542
4.336
4.129
3.923
3.717
3.510
3.304
3.098
2.891
2.685
2.479
2.272
2.066
1.859
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1.447
1.240
1.034
0.828
0.621
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1950.
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1956.
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1966.
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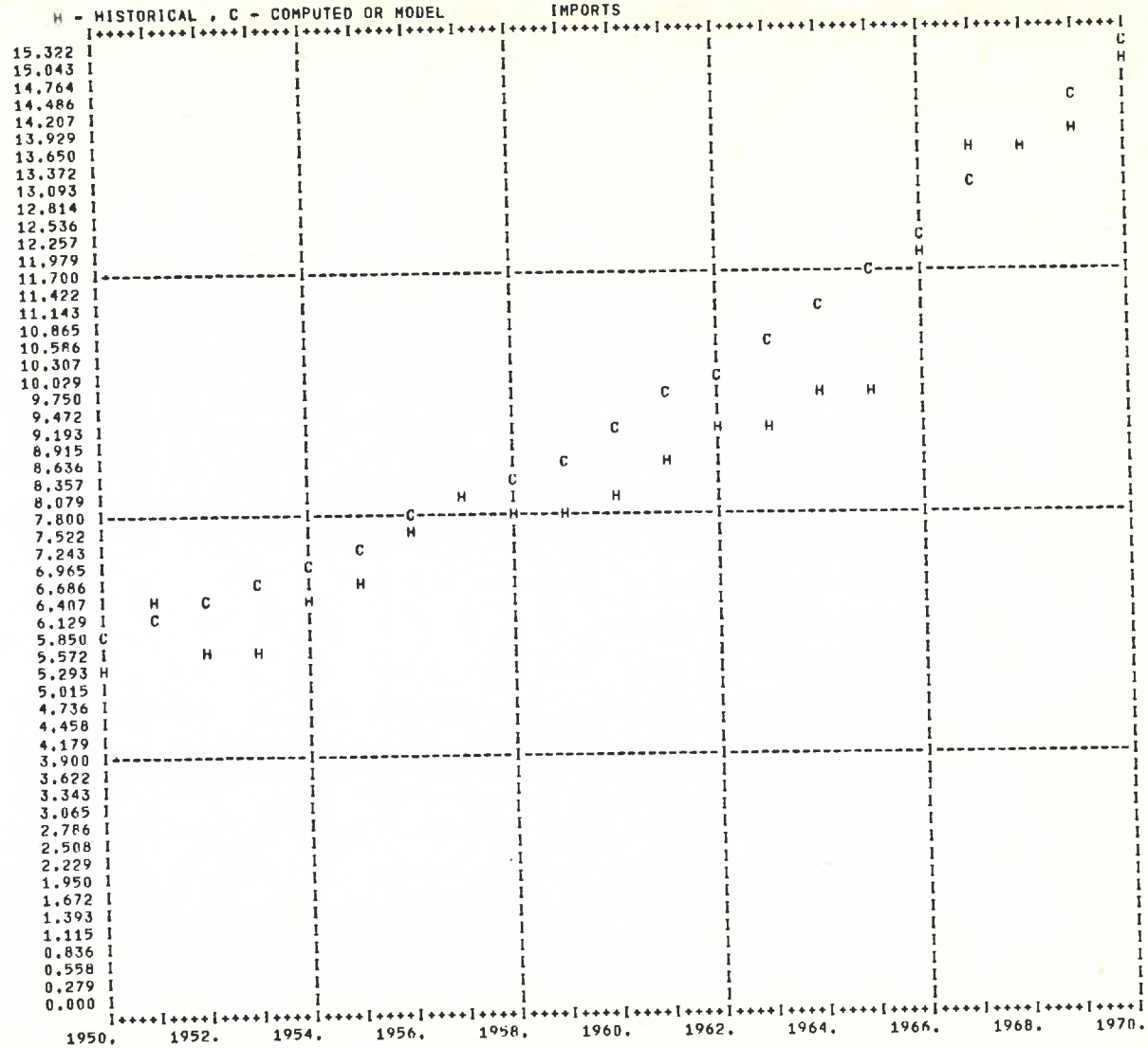
H - HISTORICAL , C - COMPUTED OR MODEL
IMPORTS
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14.764
14.486
14.207
13.929
13.650
13.372
13.093
12.814
12.536
12.257
11.979
11.700
11.422
11.143
10.865
10.586
10.307
10.029
9.750
9.472
9.193
8.915
8.636
8.357
8.079
7.800
7.522
7.243
6.965
6.686
6.407
6.129
5.850
5.572
5.293
5.015
4.736
4.458
4.179
3.900
3.622
3.343
3.065
2.786
2.508
2.229
1.950
1.672
1.393
1.115
0.836
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1950.
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1954.
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1958.
1960.
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1964.
1966.
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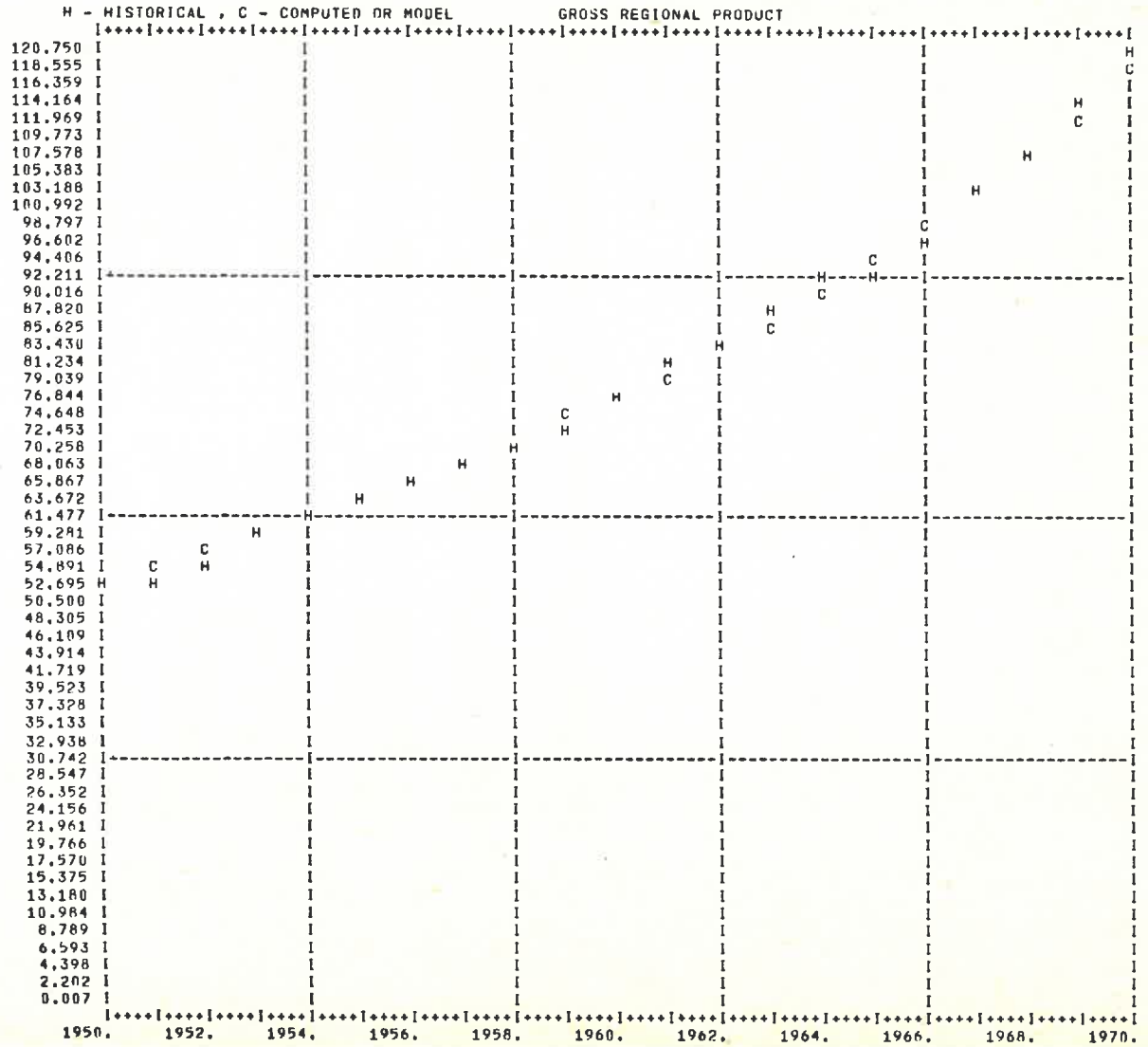
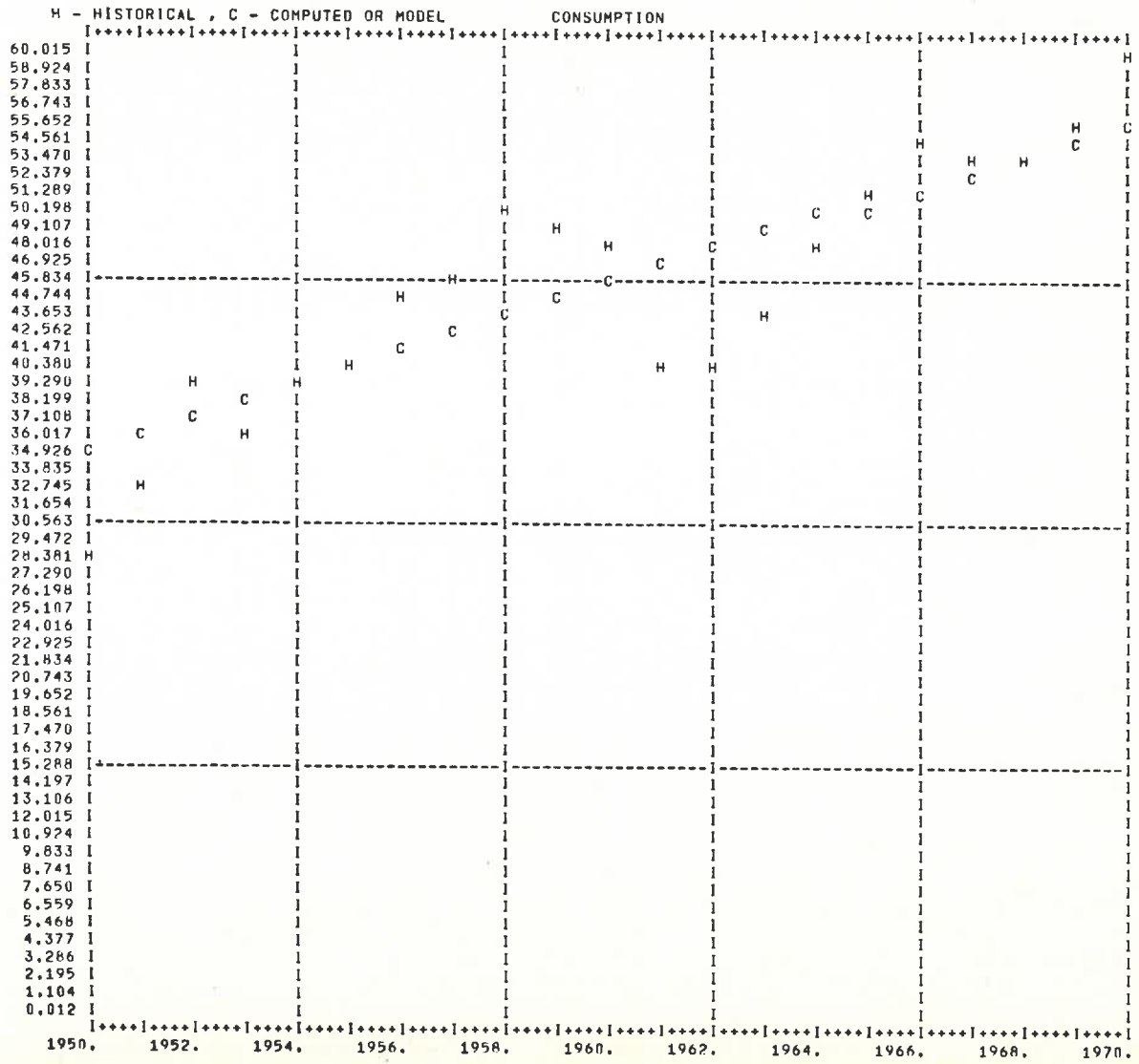

H - HISTORICAL , C - COMPUTED OR MODEL
GROSS REGIONAL PRODUCT
120.750
118.555
116.359
114.164
111.969
109.773
107.578
105.383
103.188
100.992
98.797
96.602
94.406
92.211
90.016
87.820
85.625
83.430
81.234
79.039
76.844
74.648
72.453
70.258
68.063
65.867
63.672
61.477
59.281
57.086
54.891
52.695
50.500
48.305
46.109
43.914
41.719
39.523
37.328
35.133
32.938
30.742
28.547
26.352
24.156
21.961
19.766
17.570
15.375
13.180
10.984
8.789
6.593
4.398
2.202
0.007
1950.
1952.
1954.
1956.
1958.
1960.
1962.
1964.
1966.
1968.
1970.

TABLE

CHINA 10

	CC	HC	CI	HI	CG	HG
1950	34.852	28.448	7.369	5.319	3.464	2.888
1951	36.108	32.967	7.887	6.164	3.665	3.346
1952	37.316	38.805	8.415	7.257	3.868	3.937
1953	38.483	36.519	8.955	9.411	4.072	4.835
1954	39.614	38.990	9.507	10.329	4.279	4.175
1955	40.715	40.211	10.072	11.030	4.489	4.486
1956	41.787	44.305	10.650	12.631	4.703	4.228
1957	42.839	45.623	11.244	12.885	4.920	4.624
1958	43.866	50.012	11.852	14.604	5.141	5.819
1959	44.876	49.027	12.476	14.318	5.366	5.704
1960	45.868	48.021	13.117	14.023	5.596	5.587
1961	46.846	40.315	13.774	12.175	5.831	5.322
1962	47.809	40.806	14.449	11.807	6.071	5.261
1963	48.760	43.437	15.142	13.704	6.316	5.628
1964	49.697	47.596	15.853	15.110	6.566	6.118
1965	50.627	51.756	16.583	18.353	6.822	6.974
1966	51.546	54.080	17.333	20.433	7.084	7.770
1967	52.456	53.714	18.103	17.558	7.352	7.341
1968	53.359	53.898	18.893	18.292	7.627	7.628
1969	54.256	56.101	19.704	19.149	7.908	8.259
1970	55.144	60.015	20.537	21.473	8.196	9.238
ERROR	3.73163		1.62512		0.49802	

	CY	HY	CX	HX	CM	HM
1950	45.017	36.472	2.033	1.385	2.701	1.568
1951	47.014	42.267	2.112	1.606	2.760	1.817
1952	48.975	49.739	2.195	1.887	2.821	2.148
1953	50.910	50.450	2.284	2.206	2.886	2.521
1954	52.825	52.738	2.378	1.890	2.954	2.646
1955	54.727	55.223	2.477	2.895	3.026	3.399
1956	56.620	61.547	2.583	3.501	3.104	3.119
1957	58.509	63.564	2.696	3.329	3.189	2.898
1958	60.397	70.570	2.815	3.747	3.277	3.613
1959	62.287	69.180	2.942	3.673	3.374	3.542
1960	64.183	67.762	3.078	3.598	3.476	3.469
1961	66.084	57.995	3.222	3.120	3.589	2.998
1962	67.995	58.731	3.376	3.120	3.708	2.264
1963	69.918	63.626	3.540	3.242	3.839	2.386
1964	71.853	69.498	3.715	3.670	3.979	2.936
1965	73.801	77.634	3.902	4.221	4.133	3.670
1966	75.767	82.773	4.102	4.527	4.299	4.038
1967	77.749	78.675	4.316	4.038	4.479	3.854
1968	79.749	80.082	4.546	4.038	4.676	3.610
1969	81.770	84.059	4.792	4.160	4.891	3.610
1970	83.812	90.665	5.057	4.221	5.122	4.340
ERROR	5.44904		0.53400		0.78423	


H - HISTORICAL , C - COMPUTED OR MODEL
CONSUMPTION
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56.743
55.652
54.561
53.470
52.379
51.289
50.198
49.107
48.016
46.925
45.834
44.744
43.653
42.562
41.471
40.380
39.290
38.199
37.108
36.017
34.926
33.835
32.745
31.654
30.563
29.472
28.381
27.290
26.198
25.107
24.016
22.925
21.834
20.743
19.652
18.561
17.470
16.379
15.288
14.197
13.106
12.015
10.924
9.833
8.741
7.650
6.559
5.468
4.377
3.286
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1950.
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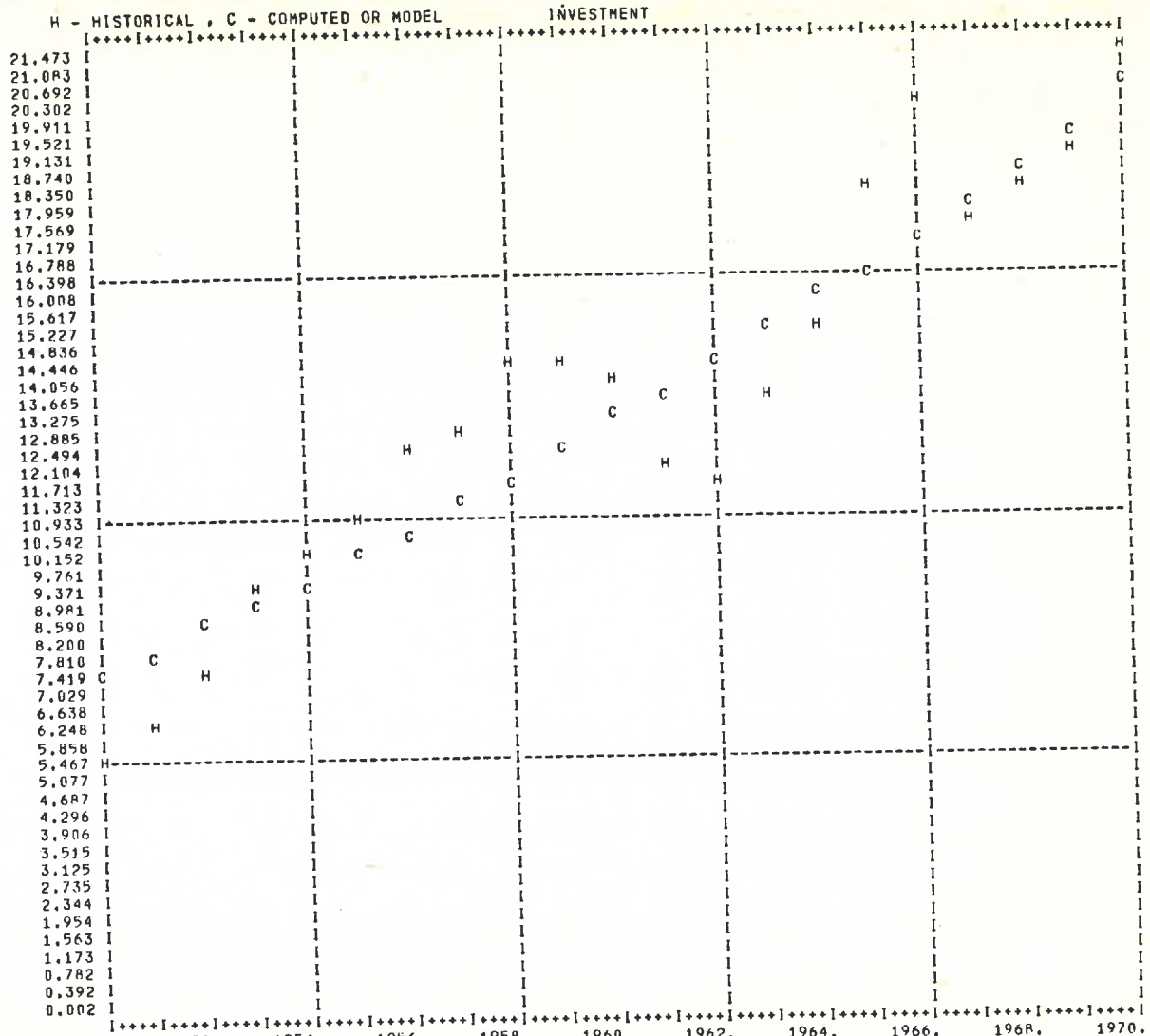
H - HISTORICAL , C - COMPUTED OR MODEL
INVESTMENT
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21.083
20.692
20.302
19.911
19.521
19.131
18.740
18.350
17.959
17.569
17.179
16.788
16.398
16.008
15.617
15.227
14.836
14.446
14.056
13.665
13.275
12.885
12.494
12.104
11.713
11.323
10.933
10.542
10.152
9.761
9.371
8.981
8.590
8.200
7.810
7.419
7.029
6.638
6.248
5.858
5.467
5.077
4.687
4.296
3.906
3.515
3.125
2.735
2.344
1.954
1.563
1.173
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1950.
1952.
1954.
1956.
1958.
1960.
1962.
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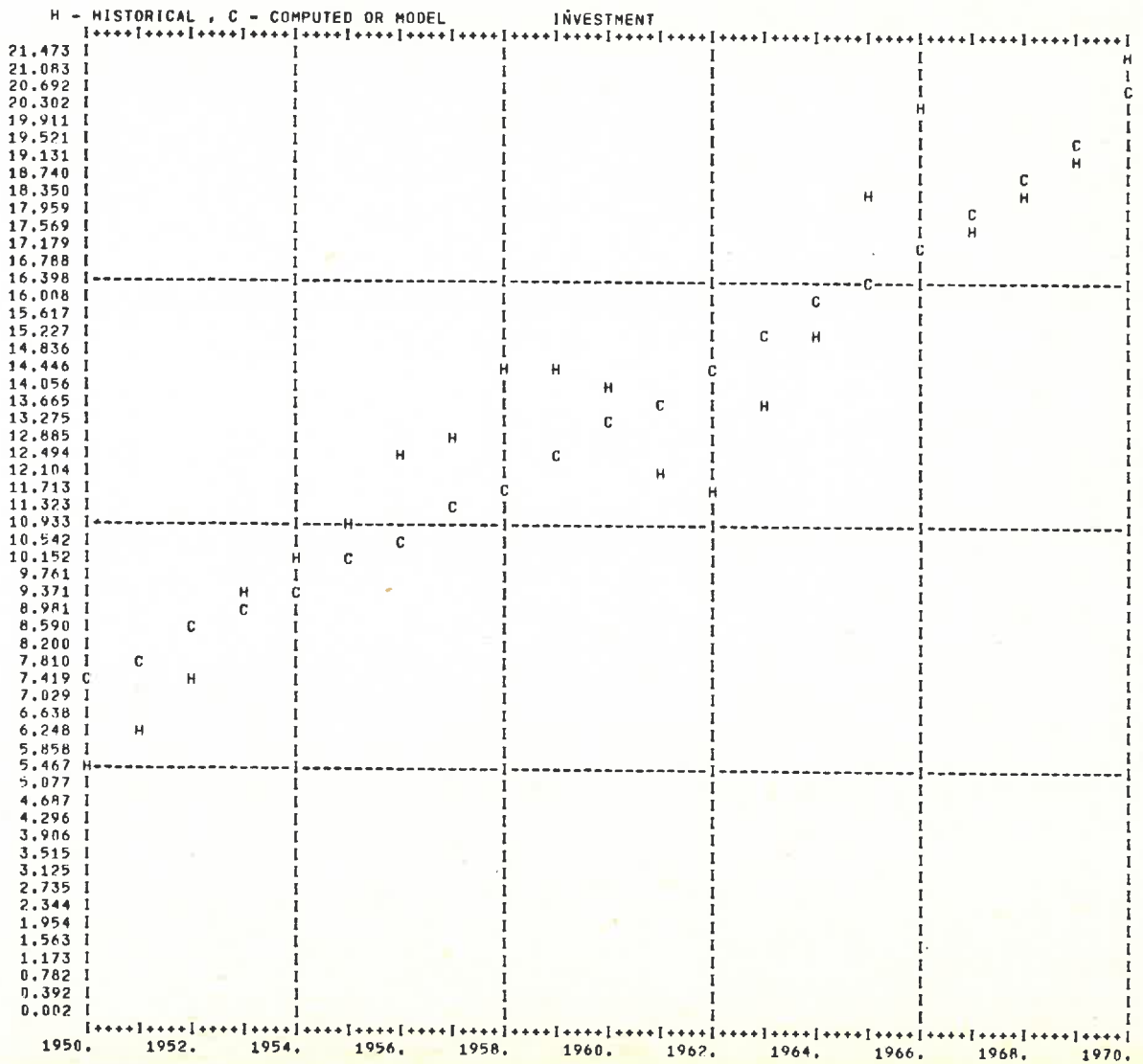
1966.
1968.
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
INVESTMENT
21.473
21.083
20.692
20.302
19.911
19.521
19.131
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16.008
15.617
15.227
14.836
14.446
14.056
13.665
13.275
12.885
12.494
12.104
11.713
11.323
10.933
10.542
10.152
9.761
9.371
8.981
8.590
8.200
7.810
7.419
7.029
6.638
6.248
5.858
5.467
5.077
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4.296
3.906
3.515
3.125
2.735
2.344
1.954
1.563
1.173
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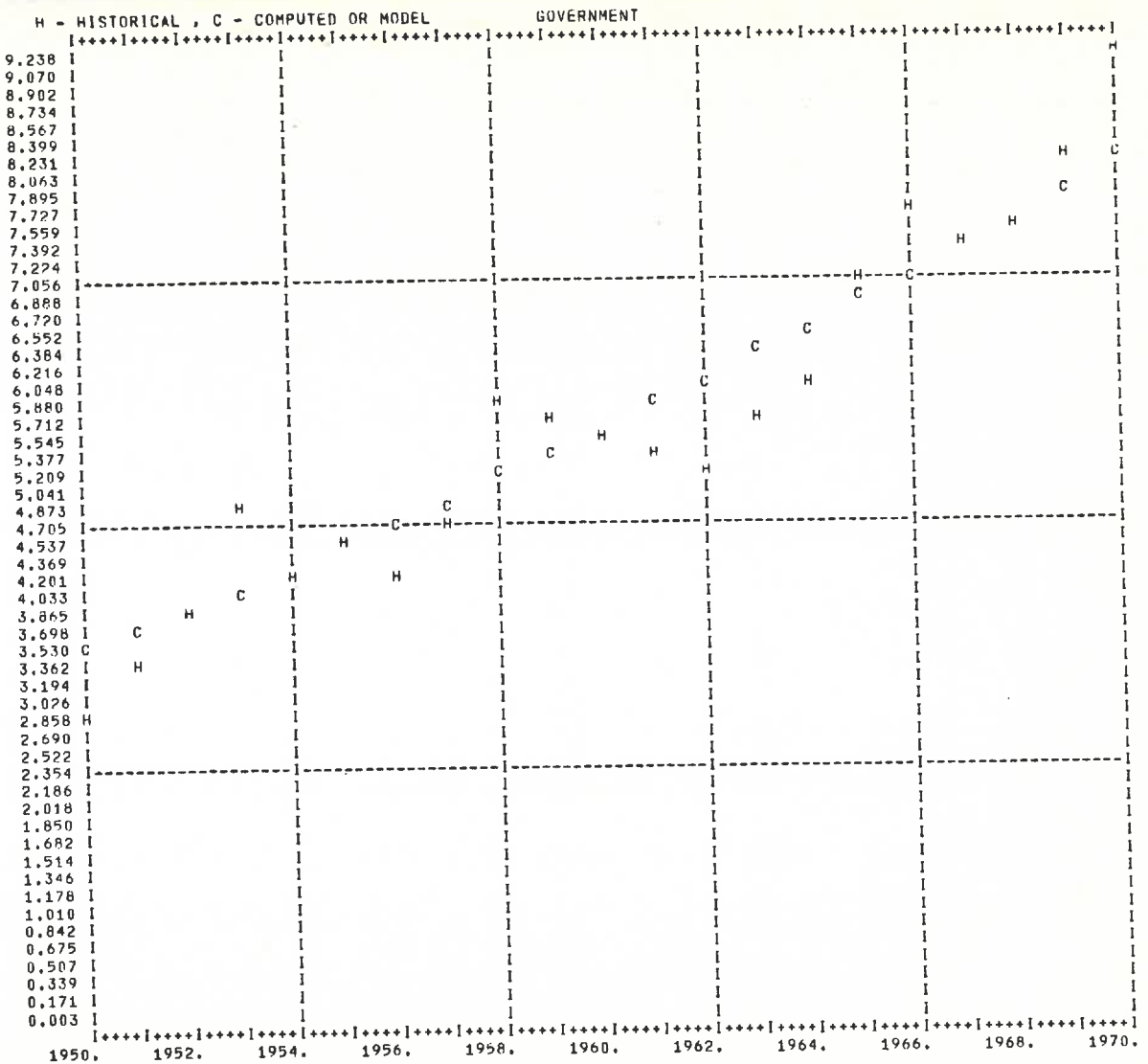
0.392
0.002
1950.
1952.
1954.
1956.
1958.
1960.
1962.
1964.
1966.
1968.
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
GOVERNMENT
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8.231
8.063
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7.727
7.559
7.392
7.224
7.056
6.888
6.720
6.552
6.384
6.216
6.048
5.880
5.712
5.545
5.377
5.209
5.041
4.873
4.705
4.537
4.369
4.201
4.033
3.865
3.698
3.530
3.362
3.194
3.026
2.858
2.690
2.522
2.354
2.186
2.018
1.850
1.682
1.514
1.346
1.178
1.010
0.842
0.675
0.507
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0.003
1950.
1952.
1954.
1956.
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1960.
1962.
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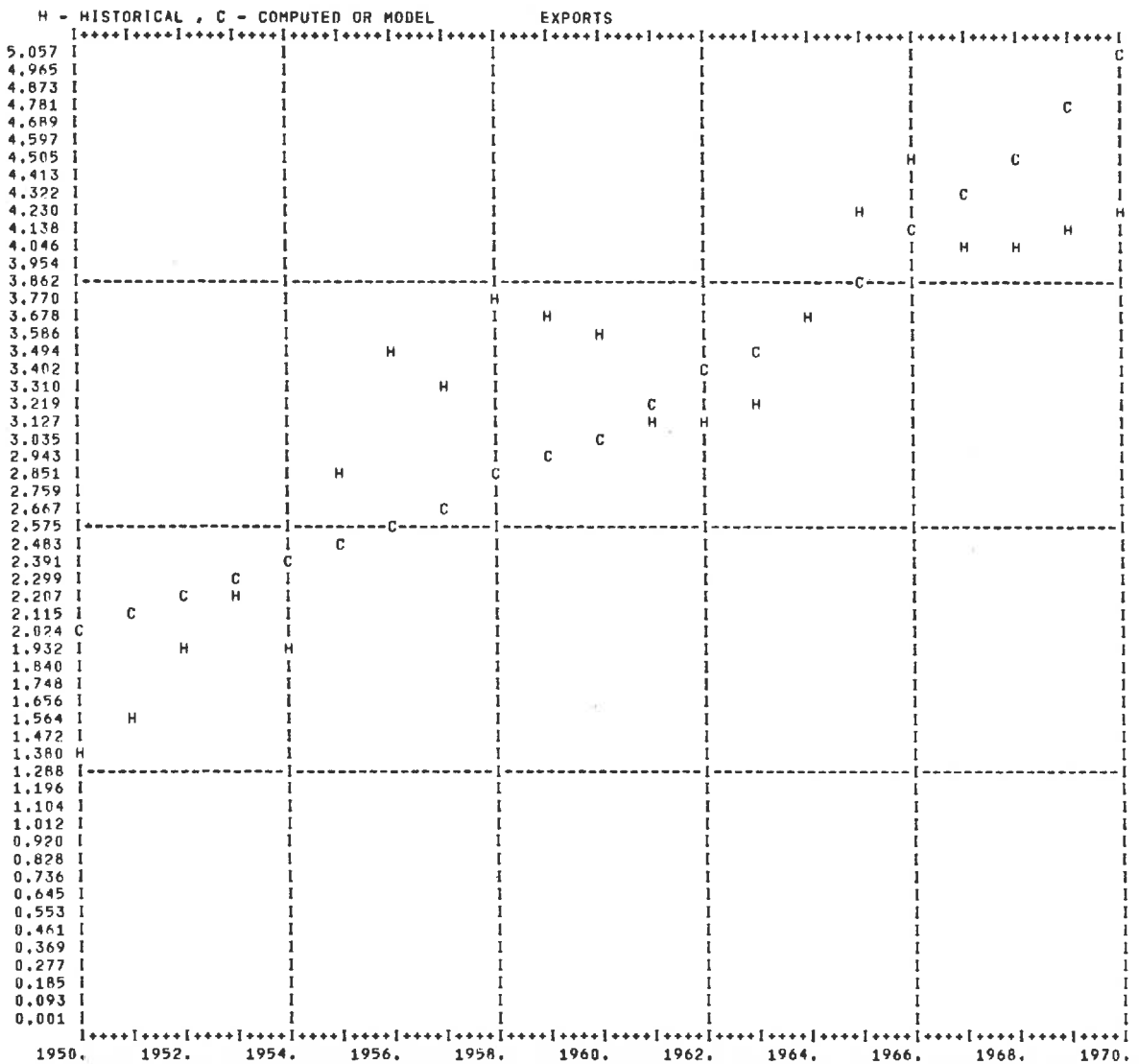
1966.
1968.
1970.


H - HISTORICAL , C - COMPUTED OR MODEL
EXPORTS
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4.689
4.597
4.505
4.413
4.322
4.230
4.138
4.046
3.954
3.862
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3.678
3.586
3.494
3.402
3.310
3.219
3.127
3.035
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2.851
2.759
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2.575
2.483
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2.115
2.024
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1.840
1.748
1.656
1.564
1.472
1.380
1.288
1.196
1.104
1.012
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0.553
0.461
0.369
0.277
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1950.
1952.
1954.
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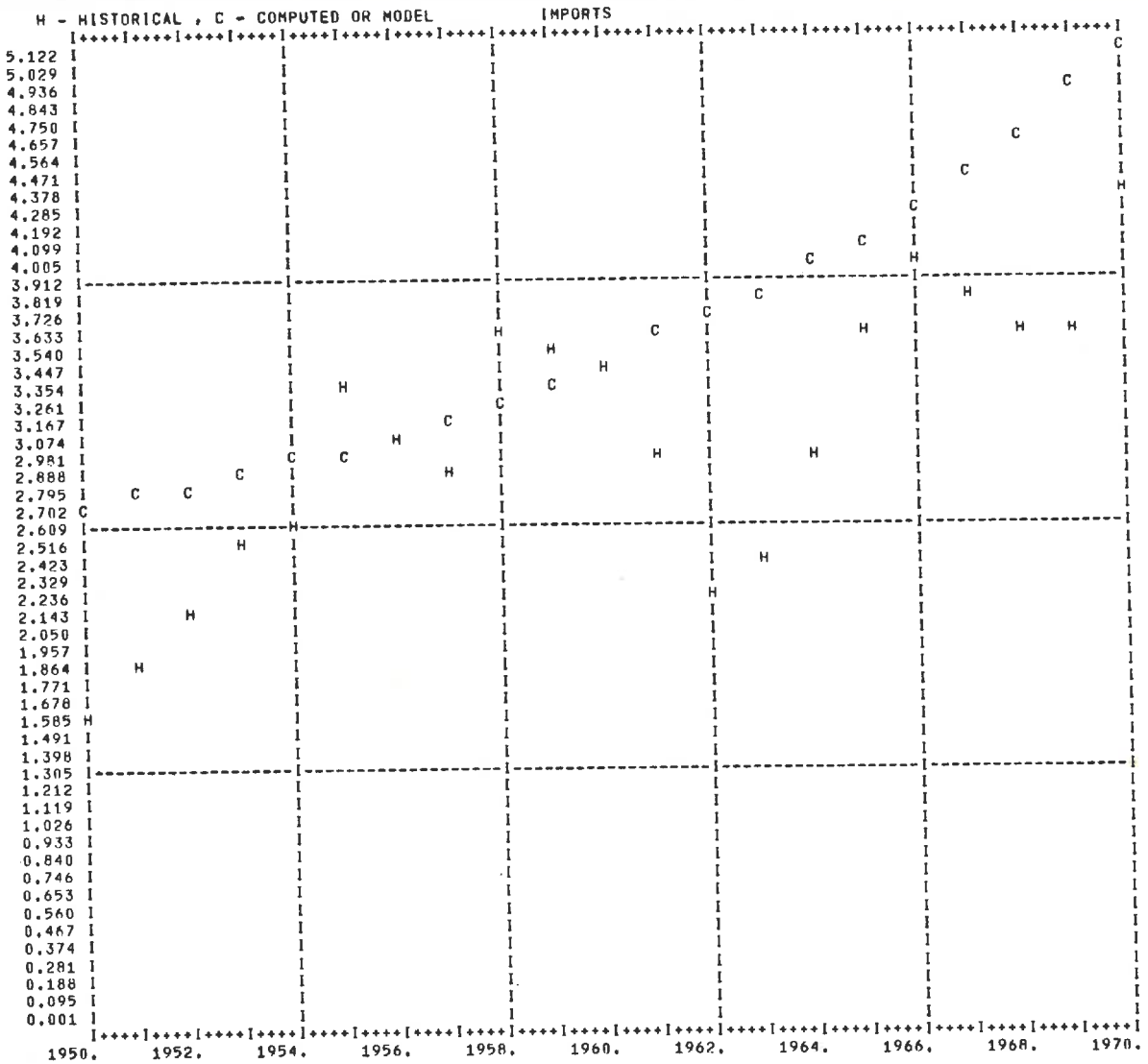
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4.099
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3.540
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1.305
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1.026
0.933
0.840
0.746
0.653
0.560
0.467
0.374
0.281
0.188
0.095
0.001
1950.
1952.
1954.
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1960.
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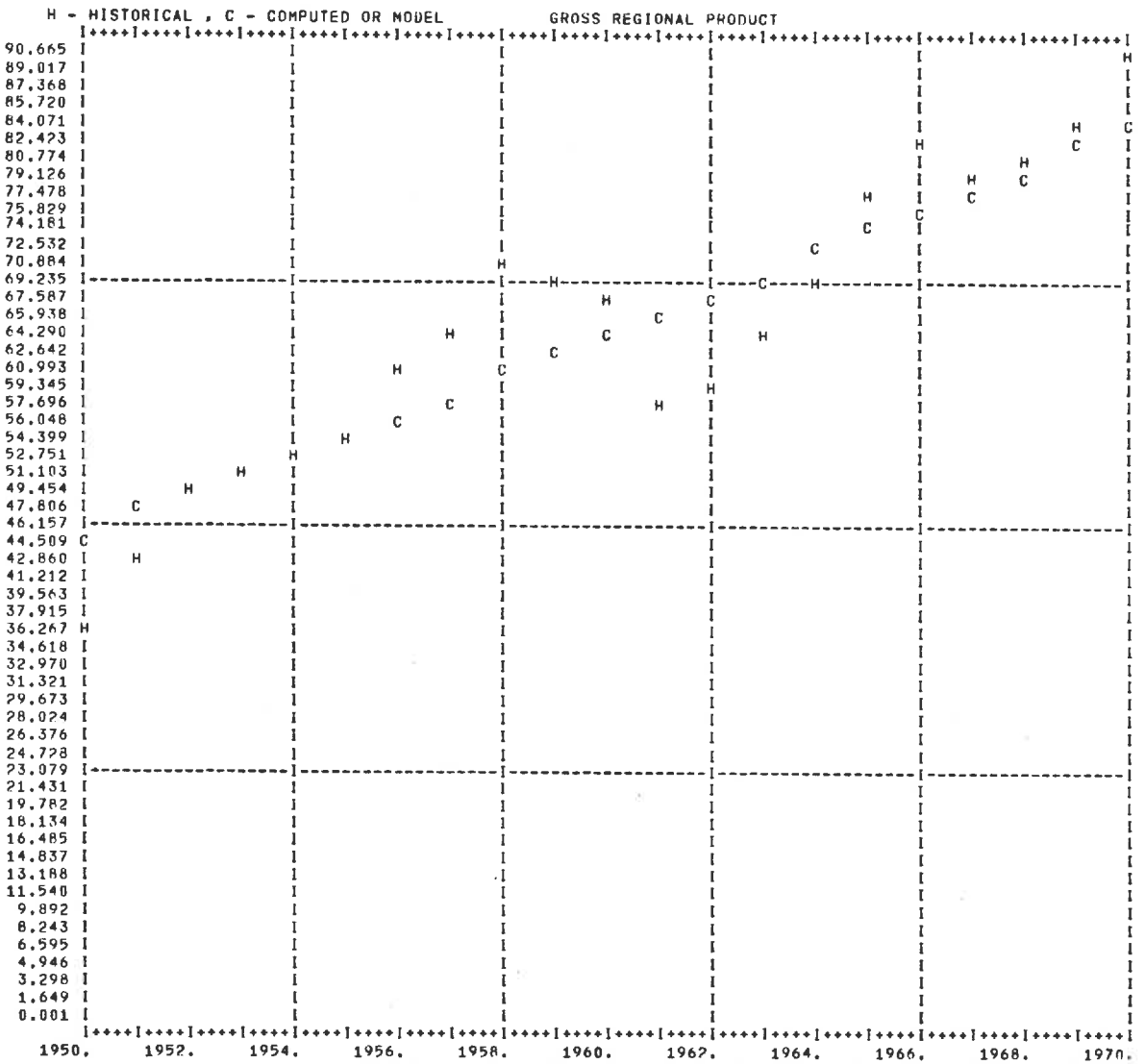

H - HISTORICAL , C - COMPUTED OR MODEL
GROSS REGIONAL PRODUCT
90.665
89.017
87.368
85.720
84.071
82.423
80.774
79.126
77.478
75.829
74.181
72.532
70.884
69.235
67.587
65.938
64.290
62.642
60.993
59.345
57.696
56.048
54.399
52.751
51.103
49.454
47.806
46.157
44.509
42.860
41.212
39.563
37.915
36.267
34.618
32.970
31.321
29.673
28.024
26.376
24.728
23.079
21.431
19.782
18.134
16.485
14.837
13.188
11.540
9.892
8.243
6.595
4.946
3.298
1.649
0.001
1950.
1952.
1954.
1956.
1958.
1960.
1962.
1964.
1966.
1968.
1970.

3. Comparison of Model Parameters and Historical Data

NORTH AMERICA

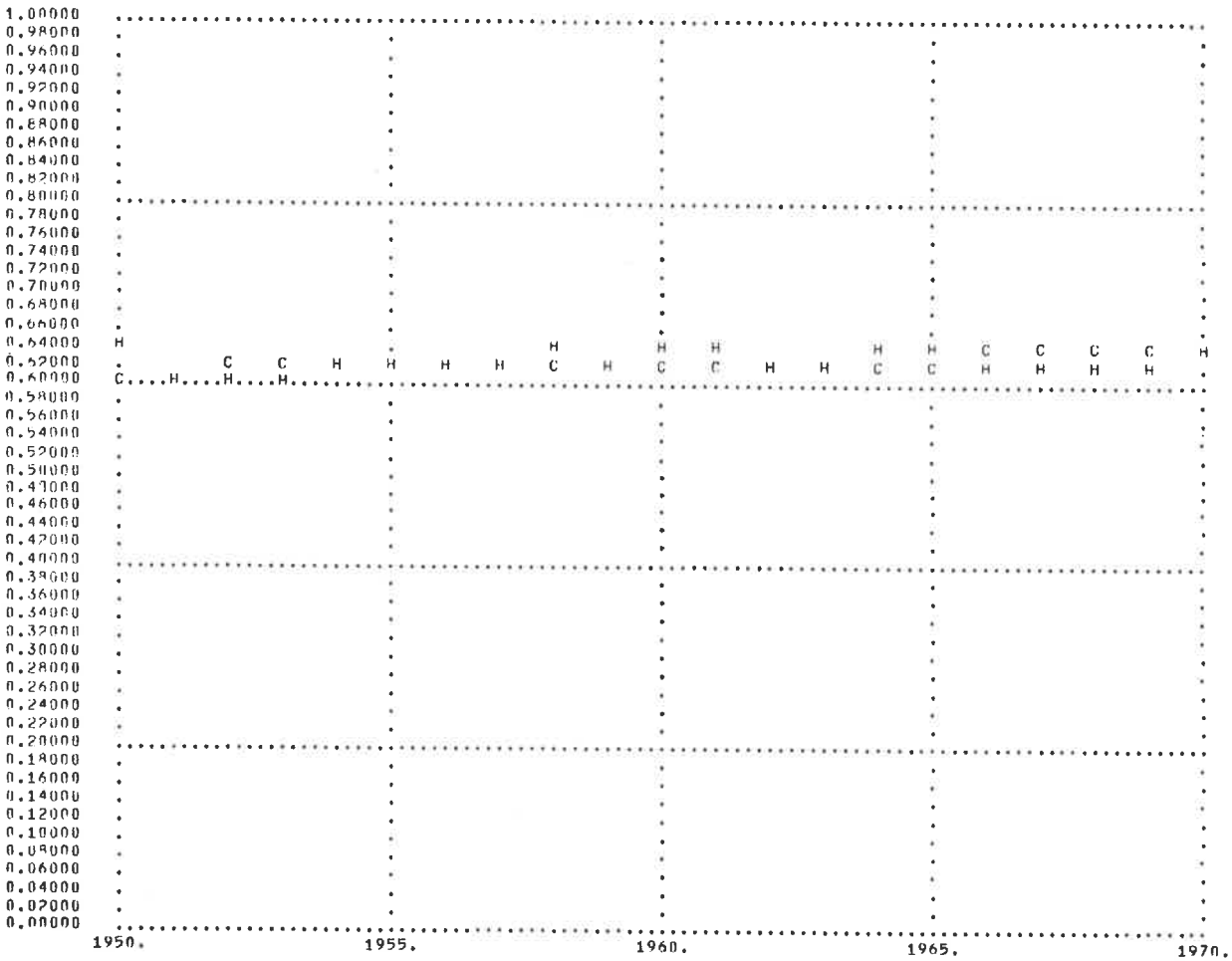
TABLE OF SECTOR-OUTPUT RATIOS

YEAR	CONSUMPTION HISTORICAL	CONSUMPTION CALCULATED	INVESTMENT HISTORICAL	INVESTMENT CALCULATED	GOVERNMENT HISTORICAL	GOVERNMENT CALCULATED
1950.	0.6458	0.6165	0.1988	0.1839	0.1417	0.1933
1951.	0.5989	0.6178	0.1790	0.1832	0.1914	0.1930
1952.	0.5999	0.6192	0.1715	0.1825	0.2253	0.1926
1953.	0.6014	0.6206	0.1739	0.1819	0.2287	0.1923
1954.	0.6183	0.6219	0.1809	0.1812	0.2064	0.1920
1955.	0.6196	0.6233	0.1846	0.1805	0.1860	0.1916
1956.	0.6278	0.6246	0.1887	0.1798	0.1837	0.1913
1957.	0.6280	0.6260	0.1820	0.1791	0.1883	0.1910
1958.	0.6436	0.6274	0.1758	0.1785	0.1952	0.1906
1959.	0.6357	0.6287	0.1795	0.1778	0.1860	0.1903
1960.	0.6430	0.6301	0.1754	0.1771	0.1939	0.1900
1961.	0.6428	0.6314	0.1696	0.1764	0.1901	0.1896
1962.	0.6357	0.6328	0.1715	0.1757	0.1899	0.1893
1963.	0.6357	0.6342	0.1715	0.1751	0.1860	0.1890
1964.	0.6418	0.6355	0.1748	0.1744	0.1807	0.1887
1965.	0.6414	0.6369	0.1792	0.1737	0.1744	0.1883
1966.	0.6251	0.6382	0.1773	0.1730	0.1845	0.1880
1967.	0.6306	0.6396	0.1702	0.1723	0.1981	0.1877
1968.	0.6308	0.6410	0.1729	0.1717	0.1947	0.1873
1969.	0.6357	0.6423	0.1728	0.1710	0.1888	0.1870
1970.	0.6502	0.6437	0.1589	0.1703	0.1860	0.1867

YEAR	EXPORTS HISTORICAL	EXPORTS CALCULATED	IMPORTS HISTORICAL	IMPORTS CALCULATED	CAPITAL STOCK HISTORICAL	CAPITAL STOCK CALCULATED
1950.	0.0207	0.0201	0.0433	0.0412	3.9182	3.8071
1951.	0.0229	0.0202	0.0426	0.0425	3.6581	3.7622
1952.	0.0212	0.0203	0.0443	0.0437	3.6307	3.7173
1953.	0.0195	0.0205	0.0468	0.0450	3.5479	3.6724
1954.	0.0196	0.0206	0.0453	0.0463	3.6690	3.6275
1955.	0.0200	0.0208	0.0478	0.0475	3.4590	3.5826
1956.	0.0221	0.0209	0.0512	0.0488	3.5017	3.5377
1957.	0.0226	0.0211	0.0512	0.0501	3.5016	3.4928
1958.	0.0199	0.0212	0.0518	0.0513	3.6267	3.4479
1959.	0.0193	0.0214	0.0549	0.0526	3.4810	3.4030
1960.	0.0208	0.0215	0.0531	0.0538	3.4803	3.3582
1961.	0.0202	0.0216	0.0513	0.0551	3.4760	3.3133
1962.	0.0206	0.0218	0.0530	0.0564	3.3233	3.2684
1963.	0.0211	0.0219	0.0525	0.0576	3.2636	3.2235
1964.	0.0224	0.0221	0.0535	0.0589	3.1827	3.1786
1965.	0.0217	0.0222	0.0558	0.0602	3.0612	3.1337
1966.	0.0224	0.0224	0.0599	0.0614	2.9426	3.0888
1967.	0.0226	0.0225	0.0623	0.0627	2.9635	3.0439
1968.	0.0235	0.0226	0.0675	0.0639	2.9070	2.9990
1969.	0.0237	0.0228	0.0706	0.0652	2.9070	2.9541
1970.	0.0247	0.0229	0.0720	0.0665	3.0201	2.9092

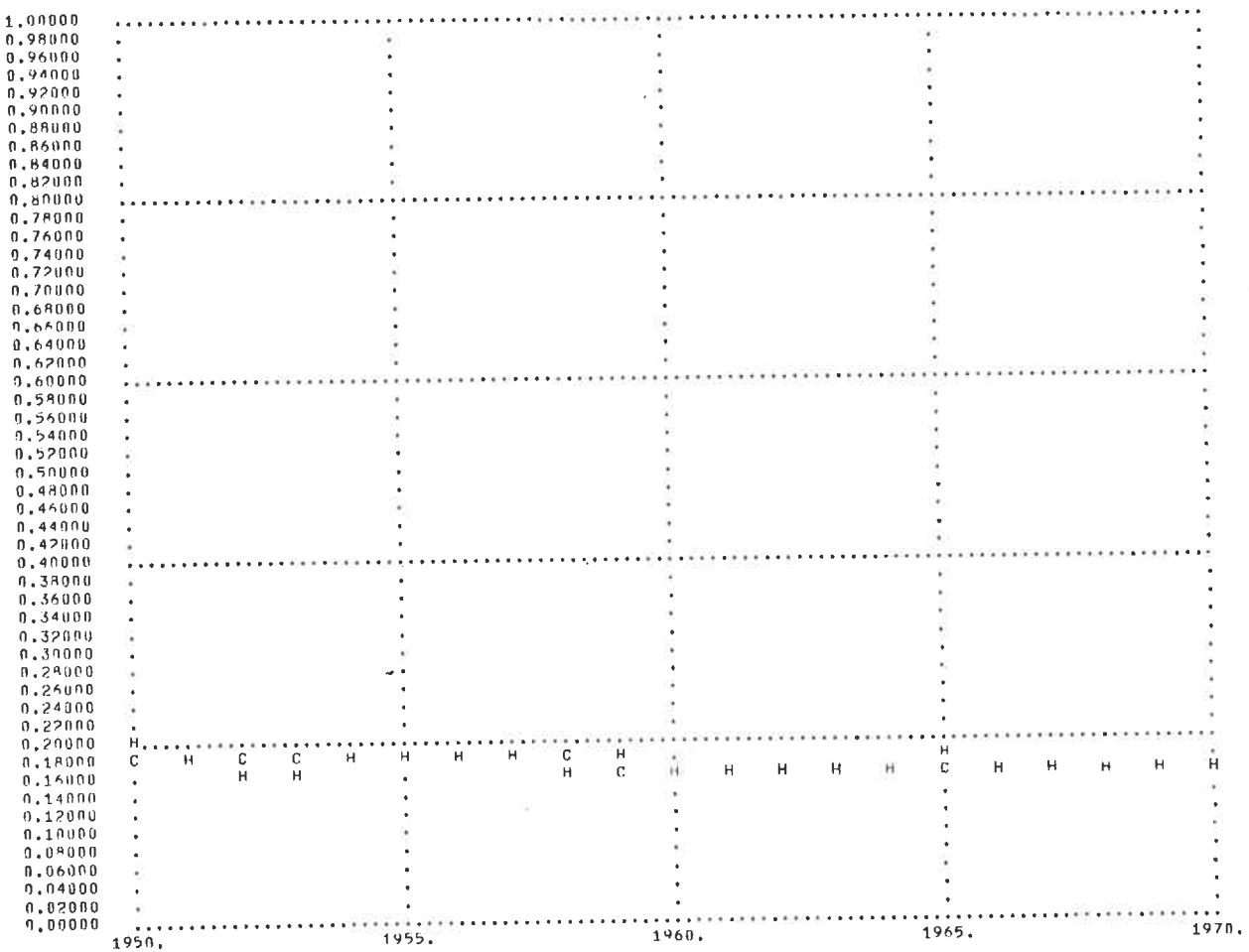
NORTH AMERICA

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



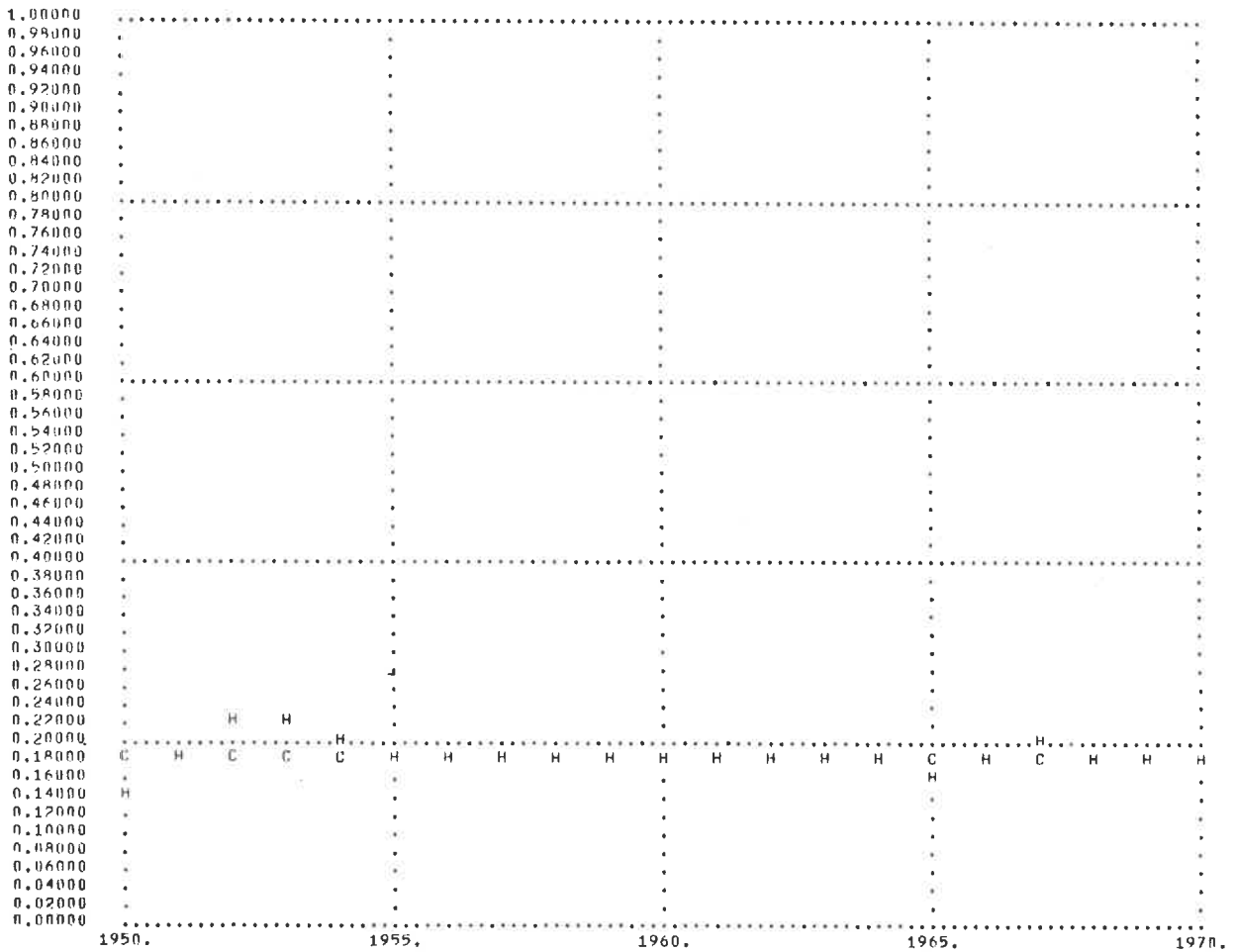
NORTH AMERICA

PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



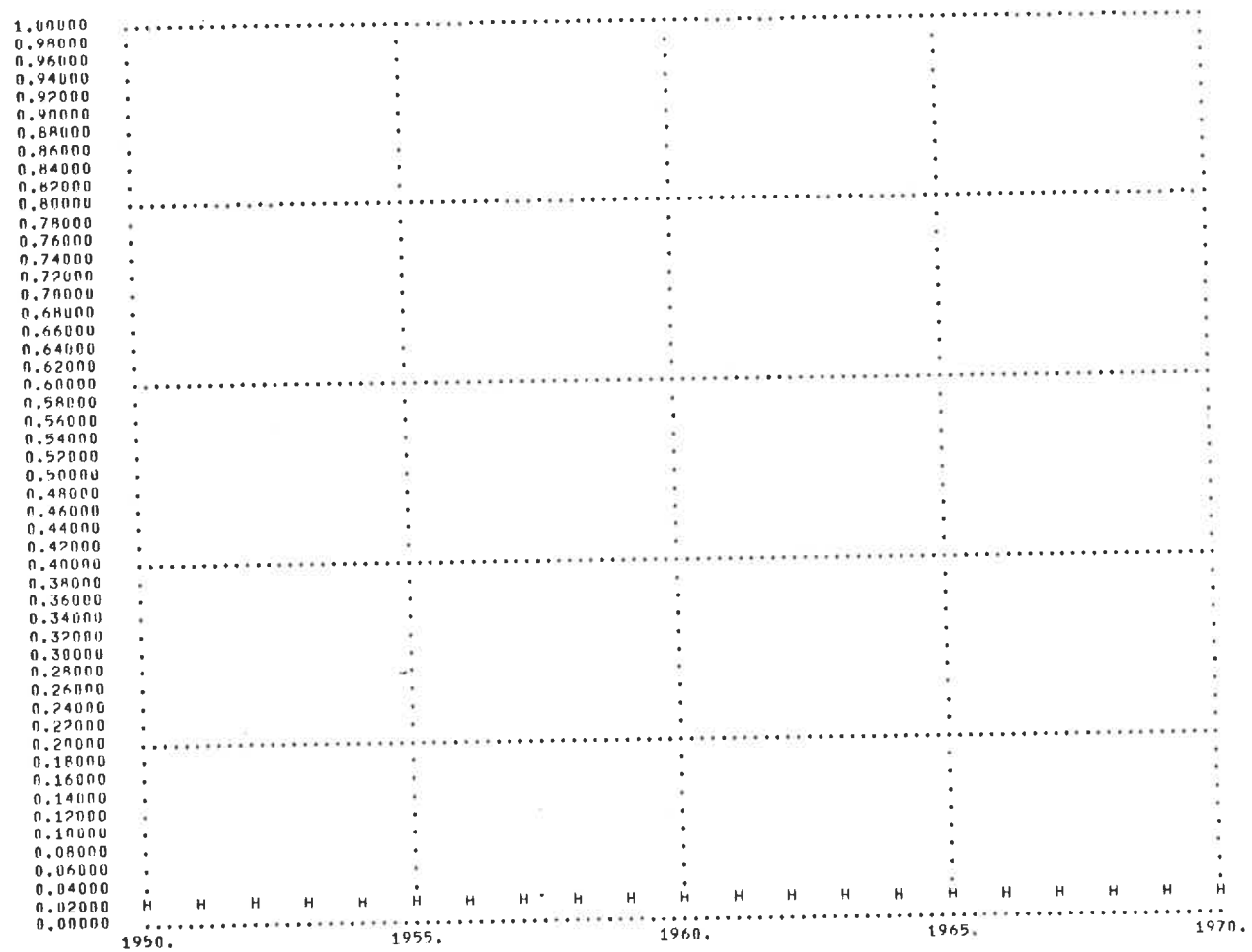
NORTH AMERICA

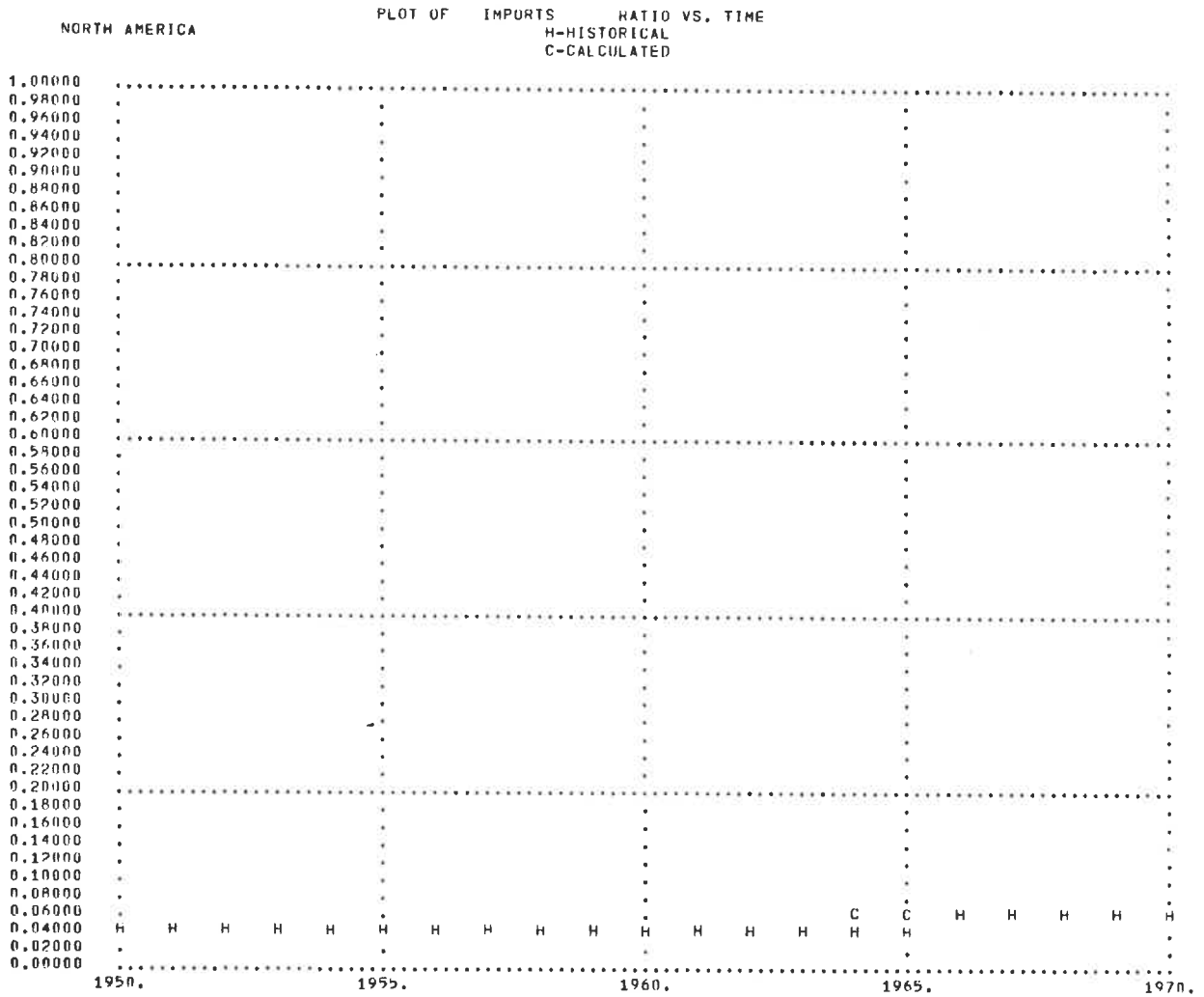
PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



NORTH AMERICA

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF IMPORTS RATIO VS. TIME
NORTH AMERICA
H-HISTORICAL
C-CALCULATED
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0.96000
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
0.70000
0.68000
0.66000
0.64000
0.62000
0.60000
0.58000
0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
0.44000
0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
0.30000
0.28000
0.26000
0.24000
0.22000
0.20000
0.18000
0.16000
0.14000
0.12000
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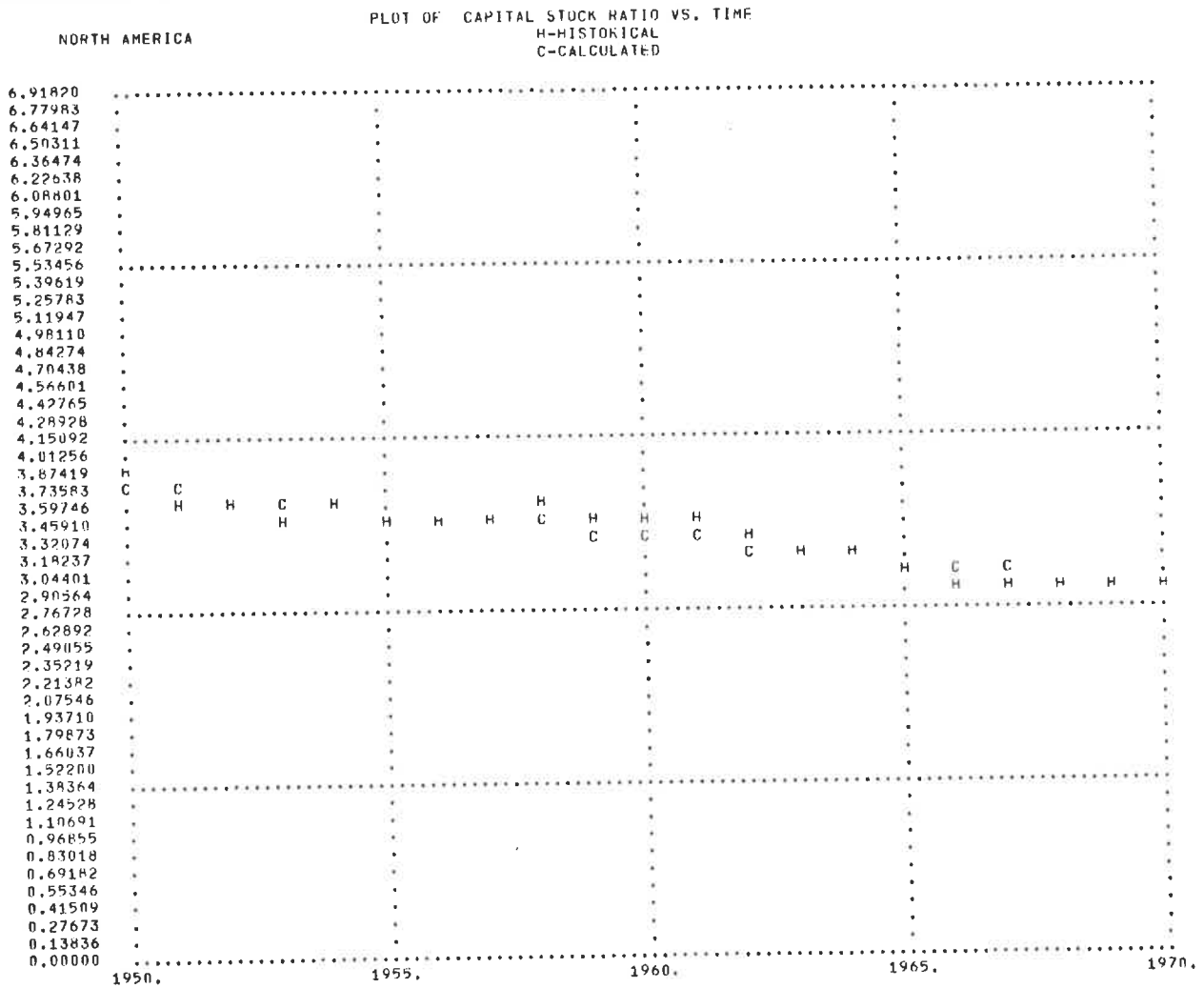
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.


PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
NORTH AMERICA
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6.50311
6.36474
6.22638
6.08801
5.94965
5.81129
5.67292
5.53456
5.39619
5.25783
5.11947
4.98110
4.84274
4.70438
4.56601
4.42765
4.28928
4.15092
4.01256
3.87419
3.73583
3.59746
3.45910
3.32074
3.18237
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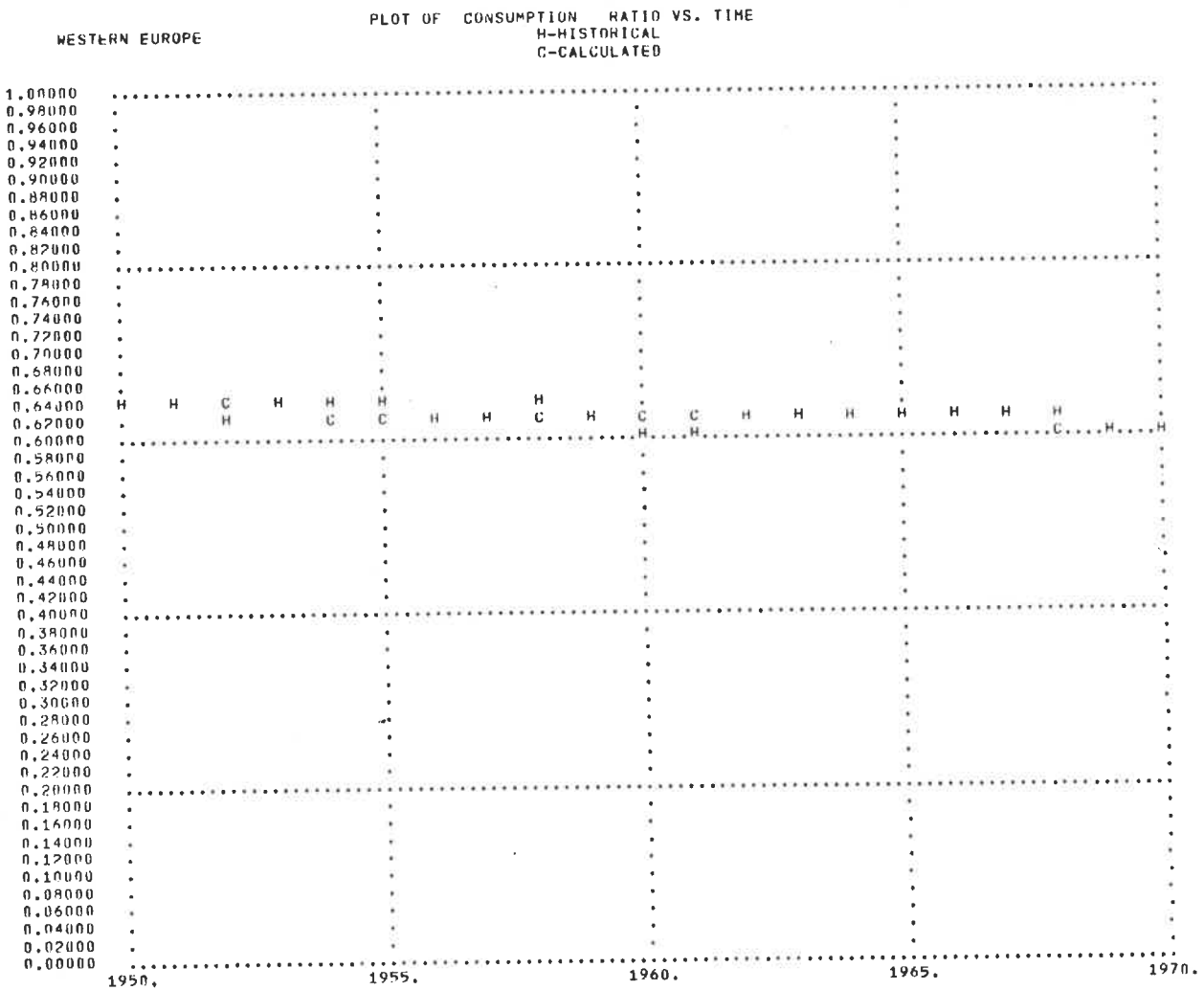
2.90564
2.76728
2.62892
2.49055
2.35219
2.21382
2.07546
1.93710
1.79873
1.66037
1.52200
1.38364
1.24528
1.10691
0.96855
0.83018
0.69182
0.55346
0.41509
0.27673
0.13836
0.00000
1950.
1955.
1960.
1965.
1970.

WESTERN EUROPE

TABLE OF SECTOR-OUTPUT RATIOS

	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.6539	0.6431	0.1672	0.1665	0.1642	0.1691
1951.	0.6418	0.6417	0.1693	0.1707	0.1662	0.1673
1952.	0.6305	0.6403	0.1645	0.1750	0.1778	0.1654
1953.	0.6407	0.6389	0.1711	0.1792	0.1740	0.1636
1954.	0.6402	0.6374	0.1640	0.1834	0.1660	0.1617
1955.	0.6397	0.6360	0.1930	0.1877	0.1563	0.1598
1956.	0.6305	0.6346	0.1948	0.1919	0.1518	0.1580
1957.	0.6305	0.6332	0.1960	0.1961	0.1497	0.1561
1958.	0.6387	0.6318	0.1993	0.2004	0.1497	0.1543
1959.	0.6305	0.6303	0.2034	0.2046	0.1496	0.1524
1960.	0.6160	0.6289	0.2101	0.2088	0.1461	0.1506
1961.	0.6168	0.6275	0.2208	0.2130	0.1446	0.1487
1962.	0.6240	0.6261	0.2257	0.2173	0.1478	0.1469
1963.	0.6305	0.6247	0.2257	0.2215	0.1478	0.1450
1964.	0.6246	0.6233	0.2364	0.2257	0.1422	0.1432
1965.	0.6192	0.6218	0.2338	0.2300	0.1411	0.1413
1966.	0.6251	0.6204	0.2375	0.2342	0.1401	0.1395
1967.	0.6252	0.6190	0.2333	0.2384	0.1416	0.1376
1968.	0.6204	0.6176	0.2347	0.2427	0.1383	0.1358
1969.	0.6116	0.6162	0.2393	0.2469	0.1344	0.1339
1970.	0.6169	0.6148	0.2452	0.2511	0.1329	0.1320

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0361	0.0335	0.1425	0.1257	2.0662	1.9936
1951.	0.0369	0.0347	0.1462	0.1318	2.1029	2.0290
1952.	0.0352	0.0360	0.1372	0.1379	2.1065	2.0644
1953.	0.0359	0.0373	0.1371	0.1440	2.1108	2.0998
1954.	0.0393	0.0385	0.1495	0.1501	2.1236	2.1352
1955.	0.0400	0.0398	0.1555	0.1562	2.1210	2.1706
1956.	0.0403	0.0410	0.1608	0.1623	2.1349	2.2060
1957.	0.0419	0.0423	0.1625	0.1684	2.1878	2.2413
1958.	0.0421	0.0435	0.1630	0.1745	2.2992	2.2767
1959.	0.0433	0.0448	0.1699	0.1806	2.3179	2.3121
1960.	0.0473	0.0461	0.1861	0.1867	2.2920	2.3475
1961.	0.0477	0.0473	0.1870	0.1928	2.3138	2.3829
1962.	0.0479	0.0486	0.1940	0.1989	2.3743	2.4183
1963.	0.0487	0.0498	0.2024	0.2051	2.4373	2.4537
1964.	0.0497	0.0511	0.2101	0.2112	2.4524	2.4891
1965.	0.0514	0.0523	0.2152	0.2173	2.5075	2.5245
1966.	0.0520	0.0536	0.2218	0.2234	2.5850	2.5599
1967.	0.0530	0.0549	0.2245	0.2295	2.6621	2.5953
1968.	0.0560	0.0561	0.2348	0.2356	2.6896	2.6306
1969.	0.0598	0.0574	0.2511	0.2417	2.6822	2.6660
1970.	0.0629	0.0586	0.2680	0.2478	2.7309	2.7014


PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
WESTERN EUROPE
1.00000
0.98000
0.96000
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
0.70000
0.68000
0.66000
0.64000
0.62000
0.60000
0.58000
0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
0.44000
0.42000
0.40000
0.38000
0.36000
0.34000
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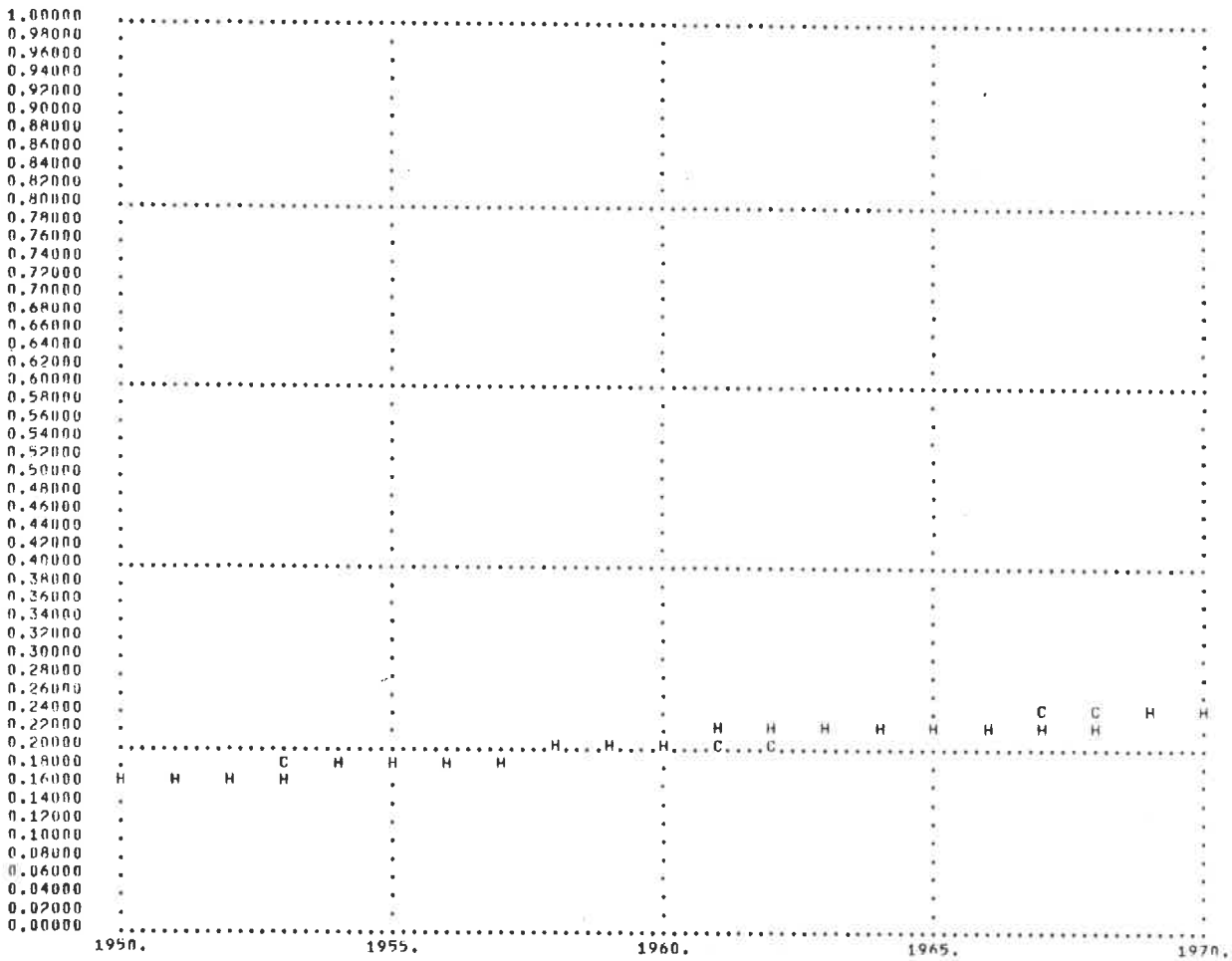
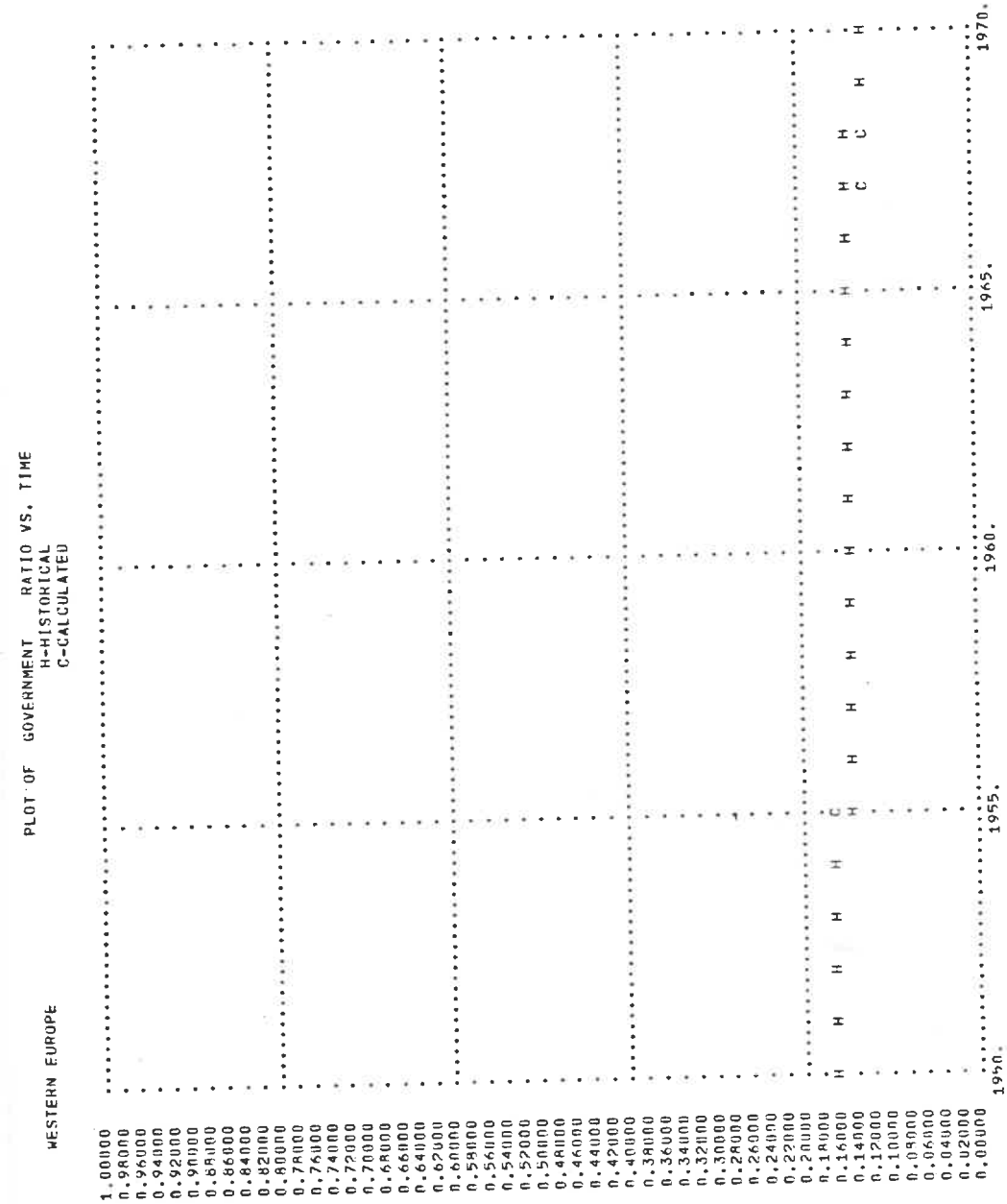
0.18000
0.16000
0.14000
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

WESTERN EUROPE

PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
WESTERN EUROPE
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0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
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0.52000
0.50000
0.48000
0.46000
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0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
0.30000
0.28000
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1950.
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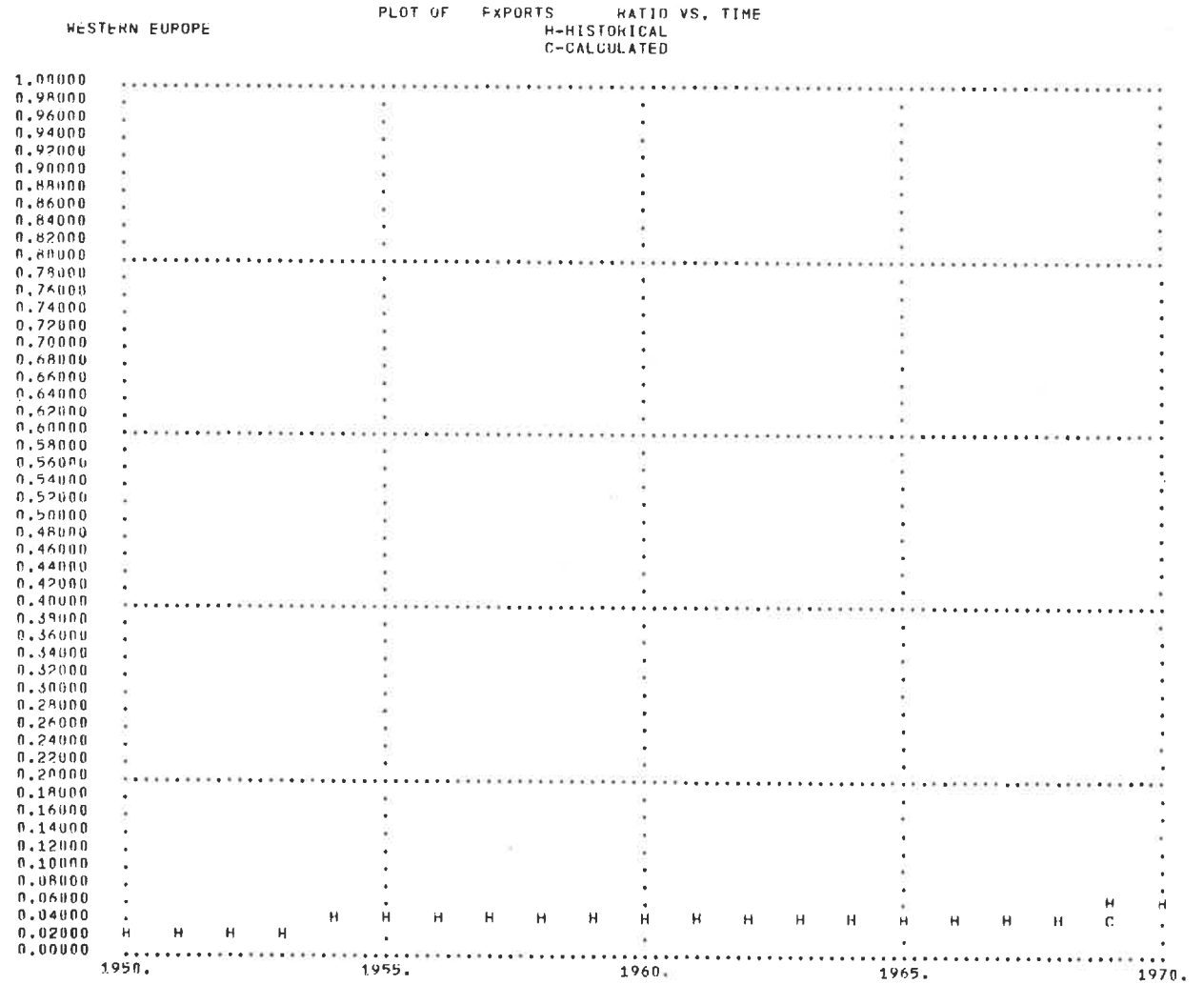
1965.
1970.


PLOT OF EXPORTS RATIO VS. TIME
WESTERN EUROPE
H-HISTORICAL
C-CALCULATED
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0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
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0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
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0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
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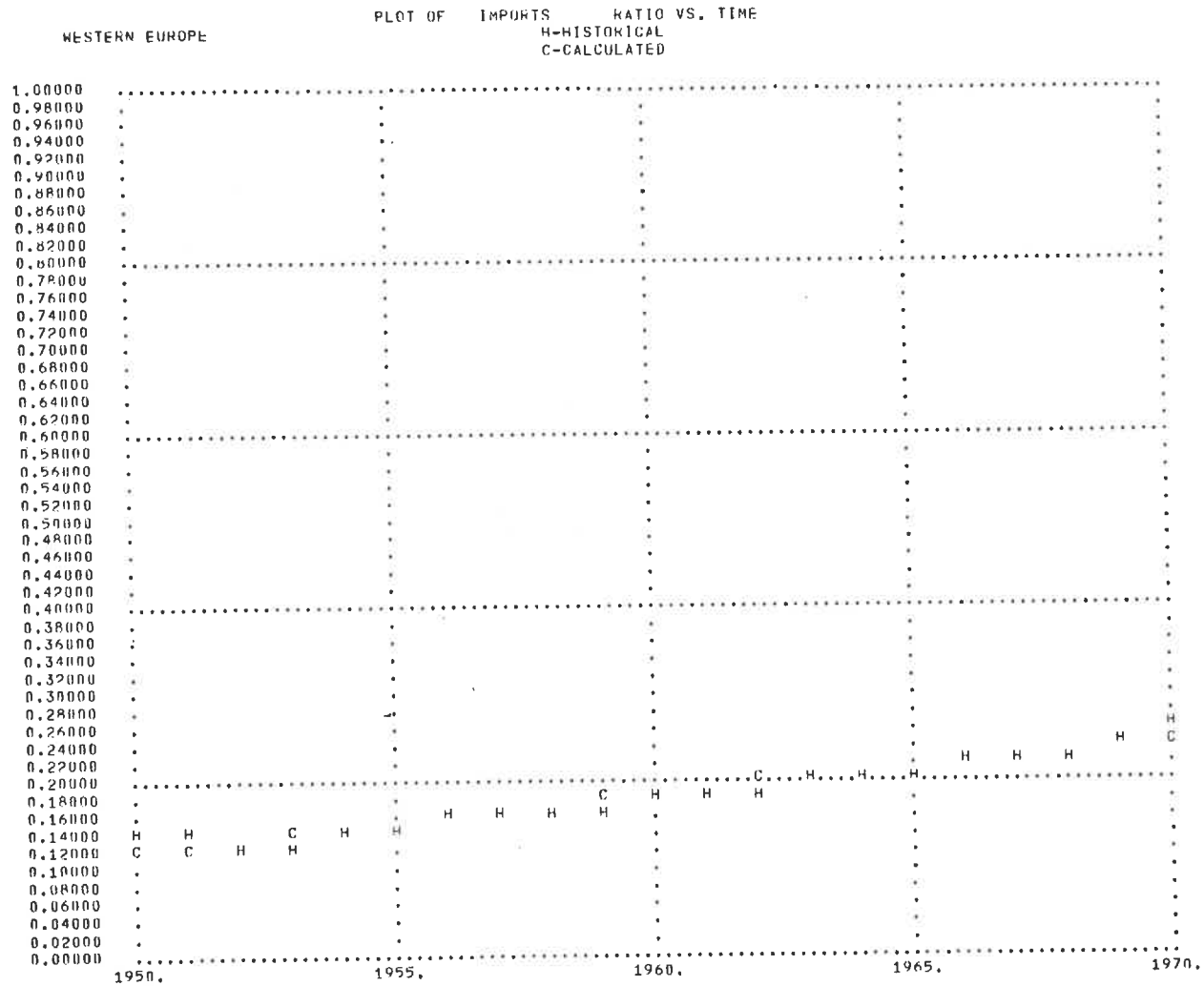
1970.


PLOT OF IMPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
WESTERN EUROPE
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0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
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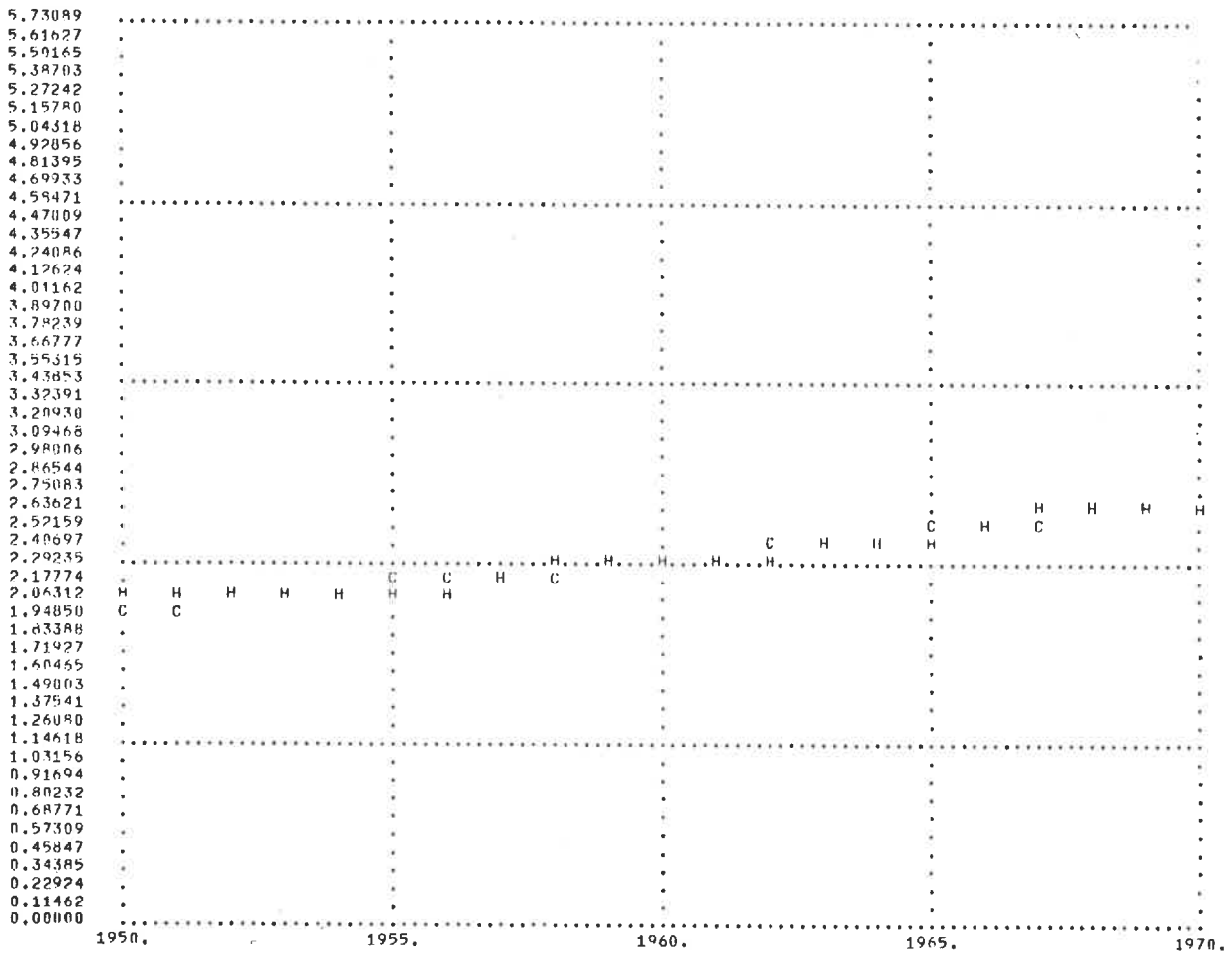
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

WESTERN EUROPE

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



JAPAN

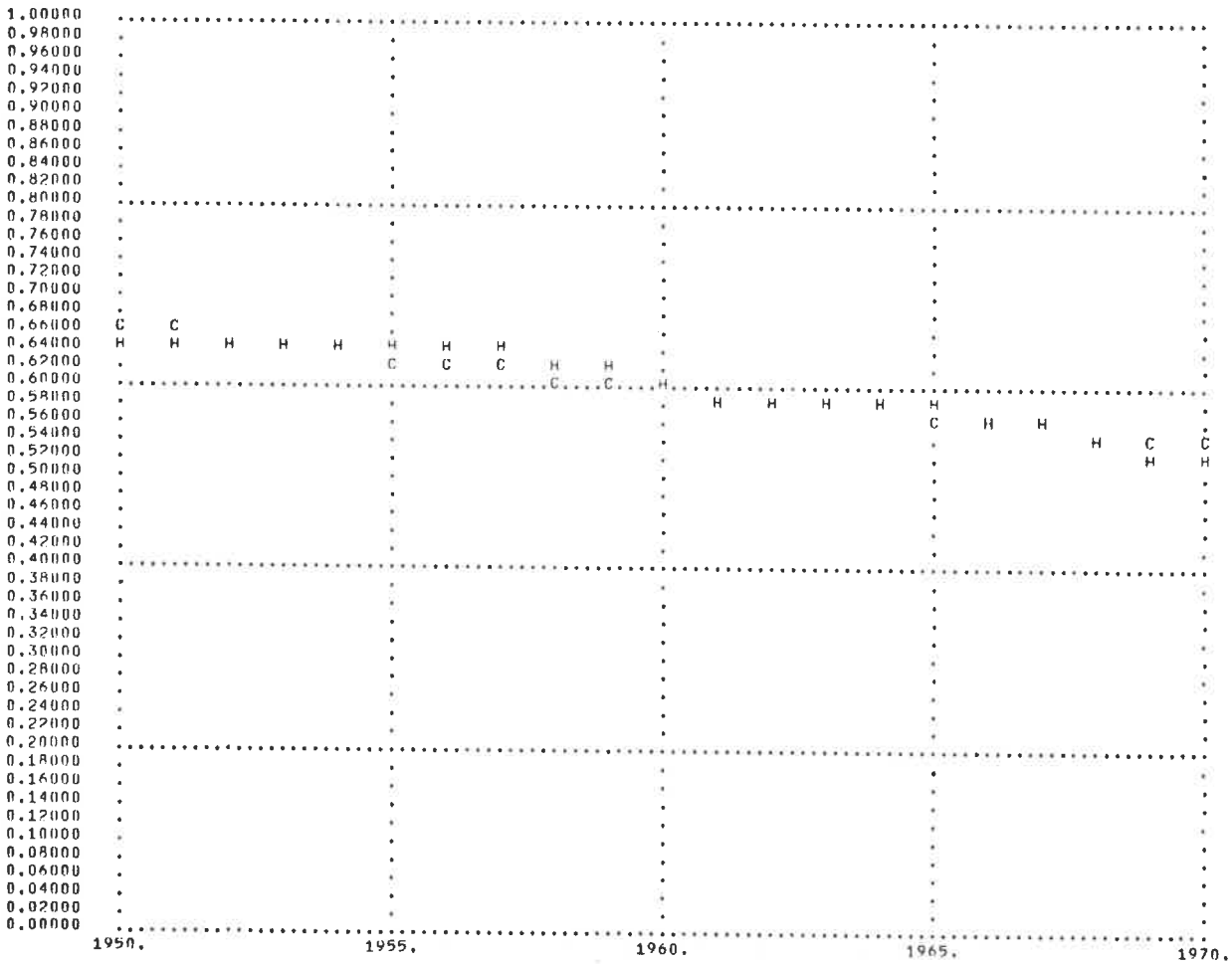
TABLE OF SECTOR-OUTPUT RATIOS

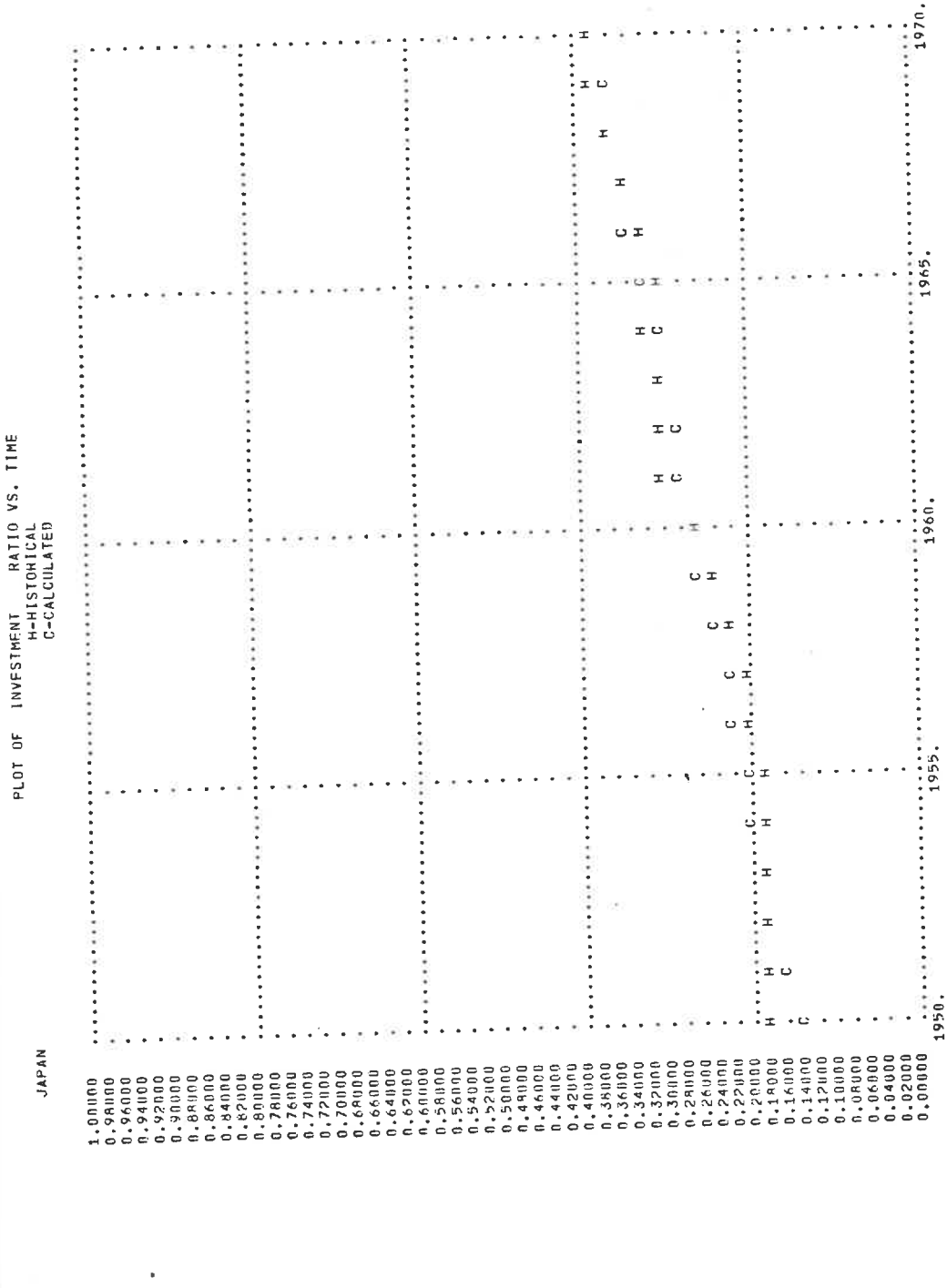
	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.6426	0.6686	0.1891	0.1558	0.1634	0.1682
1951.	0.6425	0.6621	0.1891	0.1672	0.1634	0.1642
1952.	0.6425	0.6557	0.1891	0.1787	0.1633	0.1582
1953.	0.6426	0.6493	0.1891	0.1901	0.1634	0.1532
1954.	0.6466	0.6429	0.1872	0.2015	0.1561	0.1483
1955.	0.6506	0.6364	0.1854	0.2129	0.1489	0.1433
1956.	0.6436	0.6300	0.2042	0.2243	0.1357	0.1383
1957.	0.6436	0.6236	0.2042	0.2357	0.1358	0.1333
1958.	0.6366	0.6171	0.2229	0.2471	0.1227	0.1283
1959.	0.6250	0.6107	0.2479	0.2585	0.1161	0.1233
1960.	0.6135	0.6043	0.2730	0.2699	0.1094	0.1183
1961.	0.5957	0.5979	0.3130	0.2813	0.1038	0.1133
1962.	0.5859	0.5914	0.3112	0.2927	0.1010	0.1083
1963.	0.5917	0.5850	0.3147	0.3041	0.1010	0.1033
1964.	0.5818	0.5786	0.3260	0.3155	0.0947	0.0984
1965.	0.5783	0.5722	0.3150	0.3269	0.0950	0.0934
1966.	0.5710	0.5657	0.3219	0.3383	0.0915	0.0884
1967.	0.5677	0.5593	0.3450	0.3497	0.0876	0.0834
1968.	0.5429	0.5529	0.3656	0.3611	0.0819	0.0784
1969.	0.5247	0.5464	0.3831	0.3725	0.0759	0.0734
1970.	0.5207	0.5400	0.3907	0.3839	0.0742	0.0684

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0019	0.0008	0.0672	0.0565	1.1312	1.1948
1951.	0.0018	0.0011	0.0672	0.0596	1.2256	1.2435
1952.	0.0018	0.0014	0.0672	0.0628	1.3128	1.2921
1953.	0.0018	0.0017	0.0672	0.0659	1.3935	1.3408
1954.	0.0020	0.0019	0.0655	0.0691	1.4374	1.3894
1955.	0.0021	0.0022	0.0638	0.0723	1.4583	1.4381
1956.	0.0023	0.0025	0.0677	0.0754	1.4786	1.4867
1957.	0.0024	0.0028	0.0677	0.0786	1.5298	1.5353
1958.	0.0026	0.0031	0.0716	0.0818	1.6247	1.5840
1959.	0.0028	0.0033	0.0807	0.0849	1.6601	1.6326
1960.	0.0031	0.0036	0.0899	0.0881	1.6384	1.6813
1961.	0.0033	0.0039	0.1024	0.0912	1.6009	1.7299
1962.	0.0035	0.0042	0.0922	0.0944	1.7635	1.7786
1963.	0.0036	0.0044	0.1004	0.0976	1.8214	1.8272
1964.	0.0042	0.0047	0.1017	0.1007	1.8274	1.8759
1965.	0.0048	0.0050	0.1031	0.1039	2.0108	1.9245
1966.	0.0052	0.0053	0.1056	0.1071	2.0580	1.9732
1967.	0.0055	0.0055	0.1173	0.1102	2.0378	2.0218
1968.	0.0063	0.0058	0.1154	0.1134	2.0349	2.0704
1969.	0.0072	0.0061	0.1167	0.1165	2.0812	2.1191
1970.	0.0076	0.0064	0.1191	0.1197	2.1806	2.1677

JAPAN

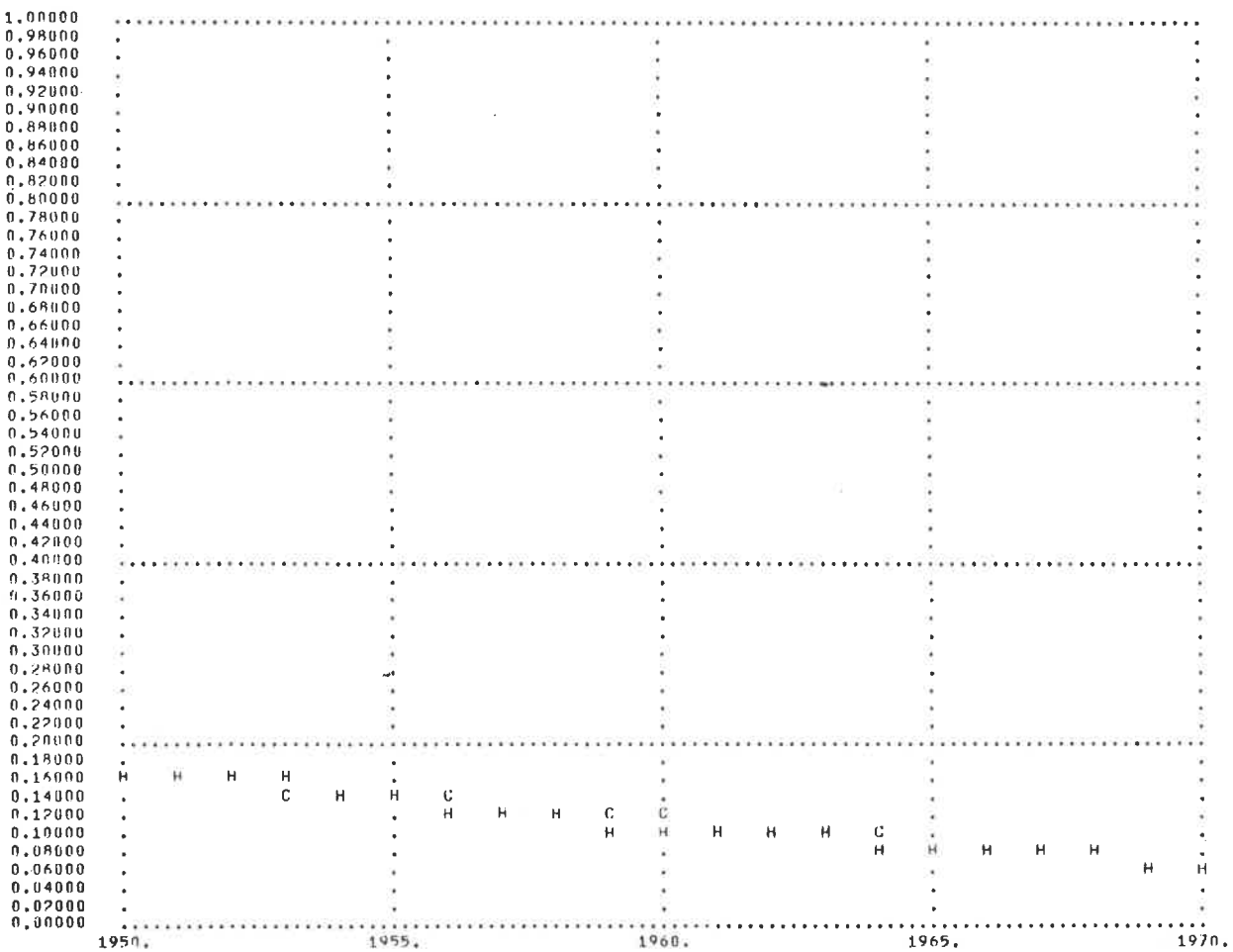
PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
JAPAN
1.00000
0.98000
0.96000
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
0.70000
0.68000
0.66000
0.64000
0.62000
0.60000
0.58000
0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
0.44000
0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
0.30000
0.28000
0.26000
0.24000
0.22000
0.20000
0.18000
0.16000
0.14000
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

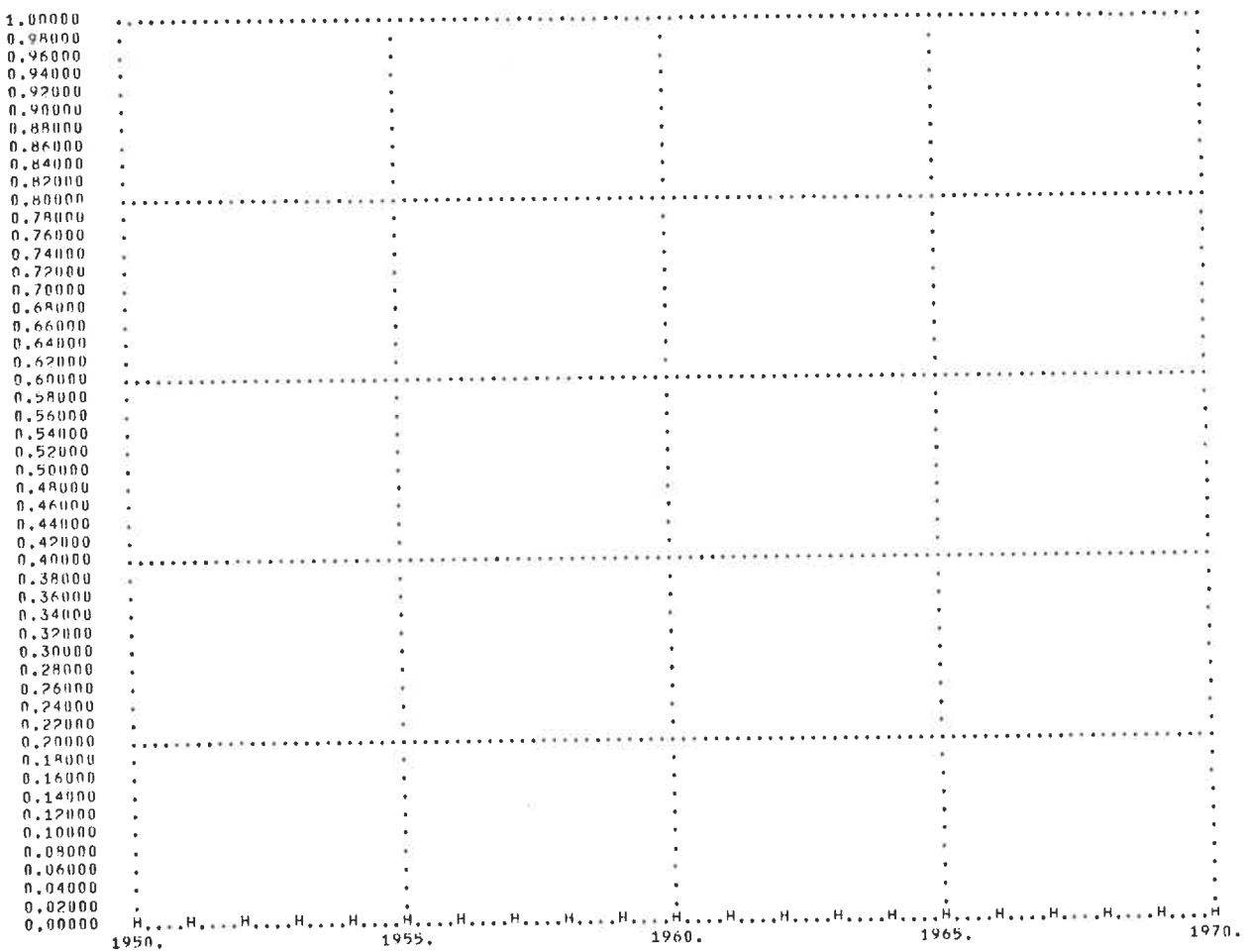
JAPAN

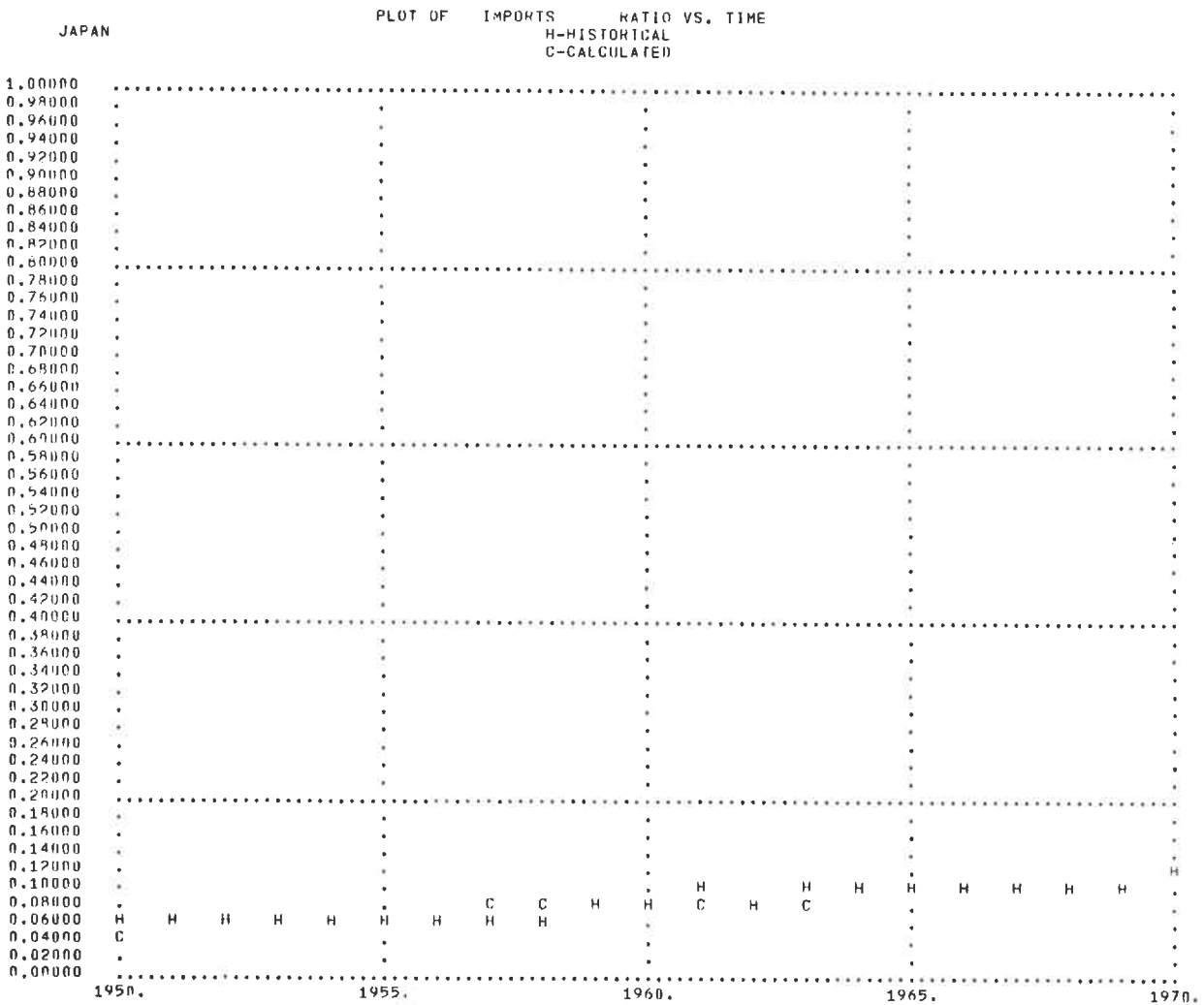
PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



JAPAN

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




JAPAN
PLOT OF IMPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
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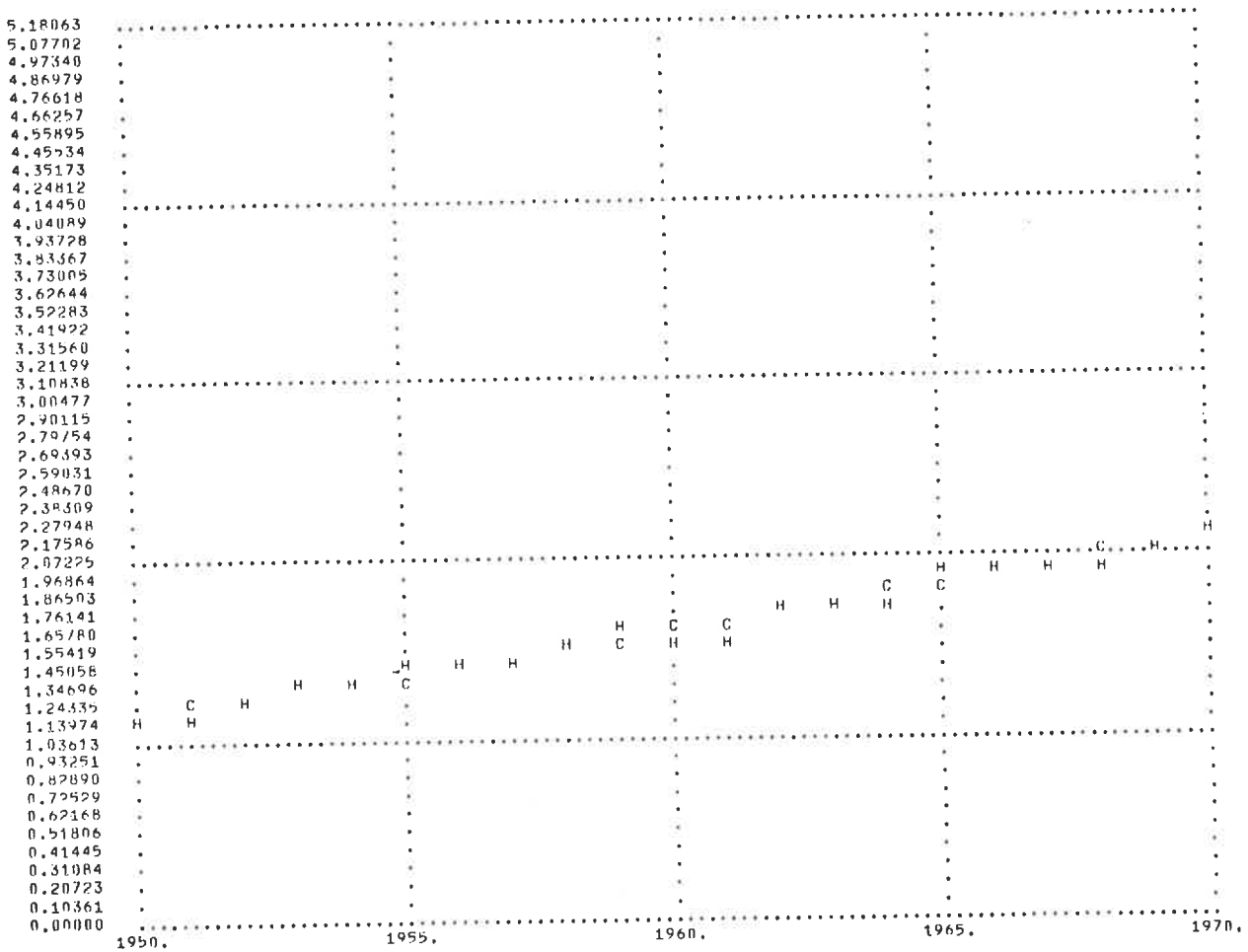
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
0.70000
0.68000
0.66000
0.64000
0.62000
0.60000
0.58000
0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
0.44000
0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
0.30000
0.28000
0.26000
0.24000
0.22000
0.20000
0.18000
0.16000
0.14000
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

JAPAN

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



REST OF WORLD

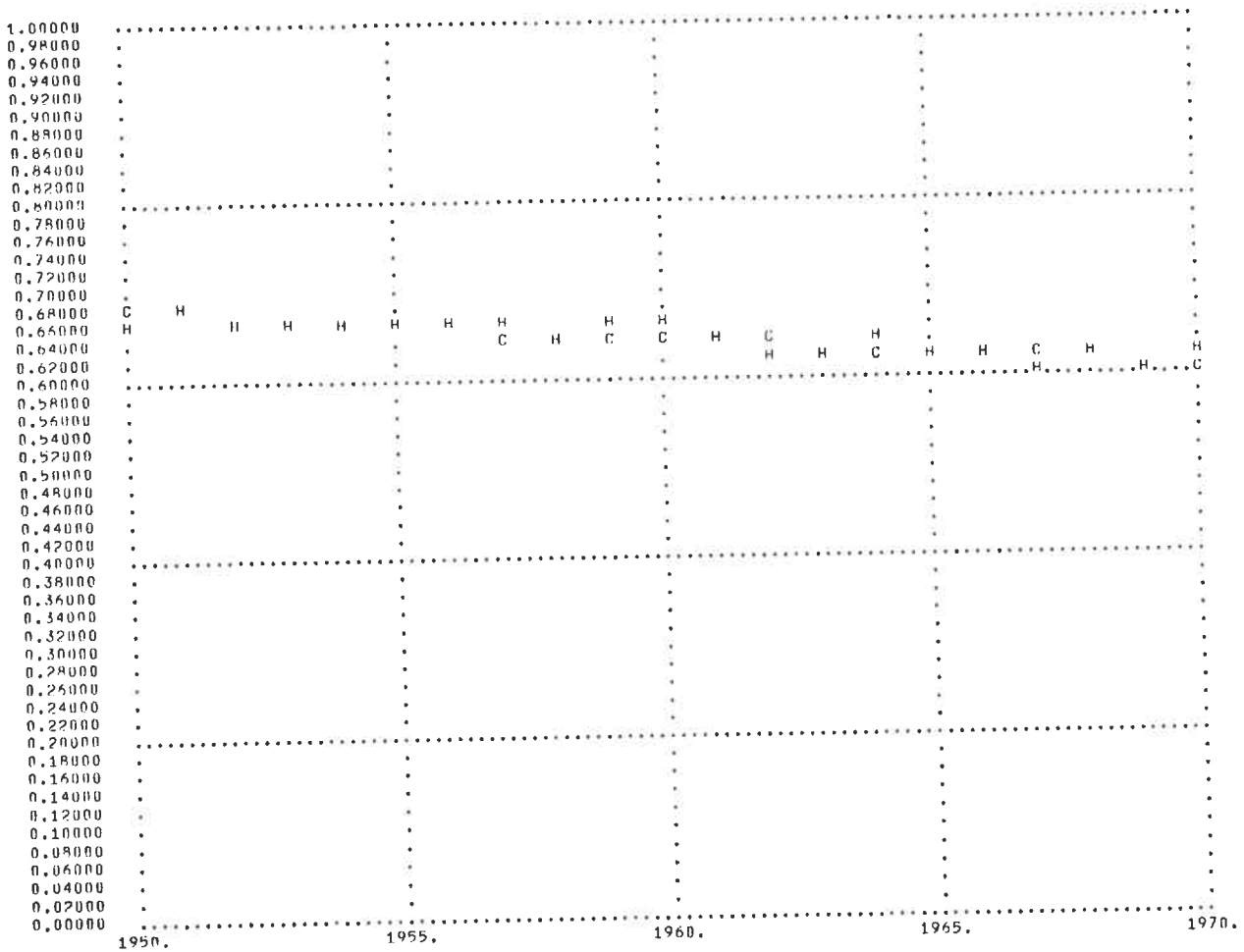
TABLE OF SECTOR-OUTPUT RATIOS

	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.6750	0.6814	0.2230	0.2228	0.1110	0.1091
1951.	0.6820	0.6780	0.2260	0.2242	0.1150	0.1101
1952.	0.6670	0.6746	0.2290	0.2257	0.1150	0.1111
1953.	0.6680	0.6712	0.2320	0.2271	0.1200	0.1121
1954.	0.6700	0.6678	0.2450	0.2285	0.1160	0.1132
1955.	0.6600	0.6644	0.2277	0.2300	0.1140	0.1142
1956.	0.6650	0.6610	0.2280	0.2314	0.1150	0.1152
1957.	0.6640	0.6576	0.2300	0.2329	0.1140	0.1162
1958.	0.6554	0.6542	0.2270	0.2343	0.1140	0.1172
1959.	0.6620	0.6508	0.2290	0.2357	0.1110	0.1182
1960.	0.6590	0.6474	0.2350	0.2372	0.1130	0.1192
1961.	0.6430	0.6440	0.2290	0.2386	0.1140	0.1202
1962.	0.6360	0.6406	0.2220	0.2400	0.1150	0.1212
1963.	0.6330	0.6372	0.2360	0.2415	0.1140	0.1222
1964.	0.6410	0.6338	0.2500	0.2429	0.1170	0.1232
1965.	0.6200	0.6304	0.2560	0.2443	0.1220	0.1242
1966.	0.6240	0.6270	0.2550	0.2458	0.1280	0.1252
1967.	0.6180	0.6236	0.2440	0.2472	0.1330	0.1262
1968.	0.6200	0.6202	0.2490	0.2487	0.1330	0.1272
1969.	0.6140	0.6168	0.2510	0.2501	0.1310	0.1282
1970.	0.6190	0.6134	0.2570	0.2515	0.1380	0.1292

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0039	0.0037	0.1970	0.1921	3.4489	3.5241
1951.	0.0037	0.0037	0.2090	0.1959	3.5059	3.5088
1952.	0.0038	0.0034	0.2010	0.1957	3.4521	3.4934
1953.	0.0037	0.0038	0.1980	0.1975	3.5377	3.4781
1954.	0.0038	0.0038	0.2160	0.1993	3.4224	3.4628
1955.	0.0039	0.0039	0.2080	0.2011	3.4269	3.4474
1956.	0.0040	0.0039	0.1920	0.2029	3.4349	3.4321
1957.	0.0037	0.0040	0.1970	0.2047	3.5076	3.4167
1958.	0.0040	0.0040	0.1900	0.2064	3.4238	3.4014
1959.	0.0041	0.0041	0.1970	0.2082	3.3671	3.3861
1960.	0.0042	0.0041	0.2120	0.2100	3.4028	3.3707
1961.	0.0043	0.0041	0.1890	0.2118	3.4555	3.3554
1962.	0.0042	0.0042	0.1920	0.2136	3.4032	3.3400
1963.	0.0045	0.0042	0.2090	0.2154	3.3029	3.3247
1964.	0.0043	0.0043	0.2310	0.2172	3.2281	3.3094
1965.	0.0040	0.0043	0.2300	0.2189	3.2579	3.2940
1966.	0.0042	0.0044	0.2180	0.2207	3.2786	3.2787
1967.	0.0039	0.0044	0.2265	0.2225	3.2988	3.2633
1968.	0.0046	0.0045	0.2090	0.2243	3.2456	3.2480
1969.	0.0048	0.0045	0.2370	0.2261	3.1865	3.2327
1970.	0.0048	0.0045	0.2520	0.2279	3.1978	3.2173

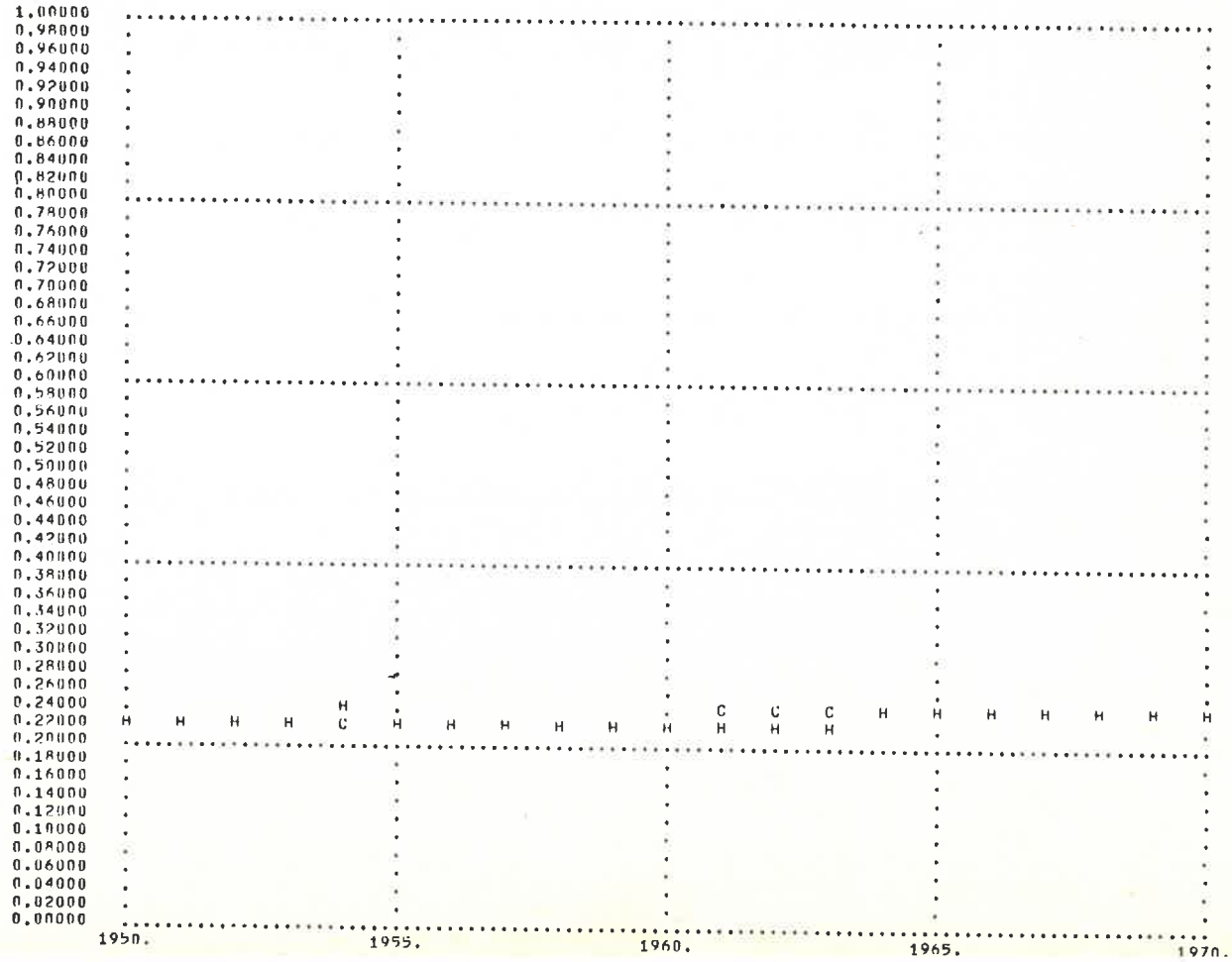
REST OF WORLD

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



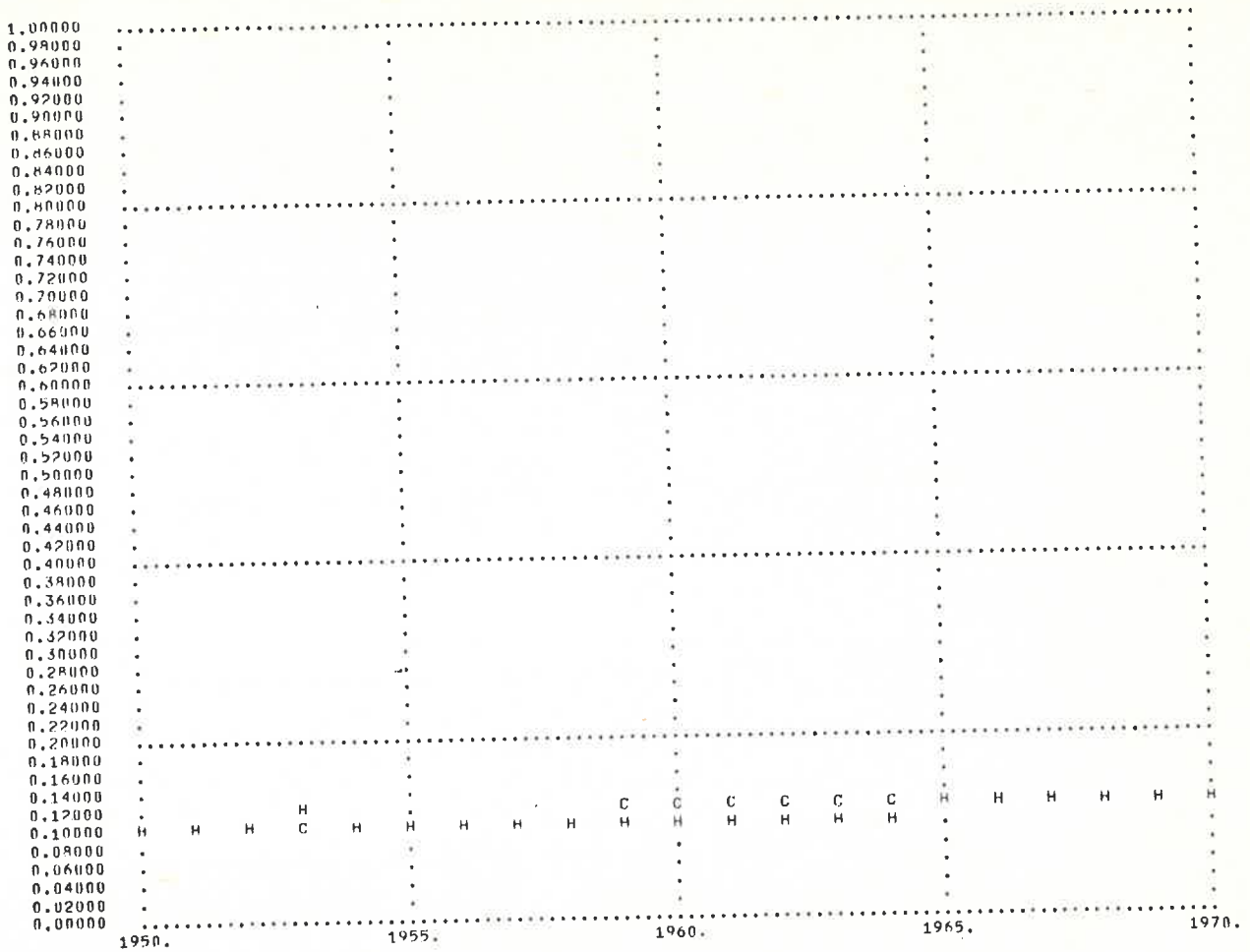
REST OF WORLD

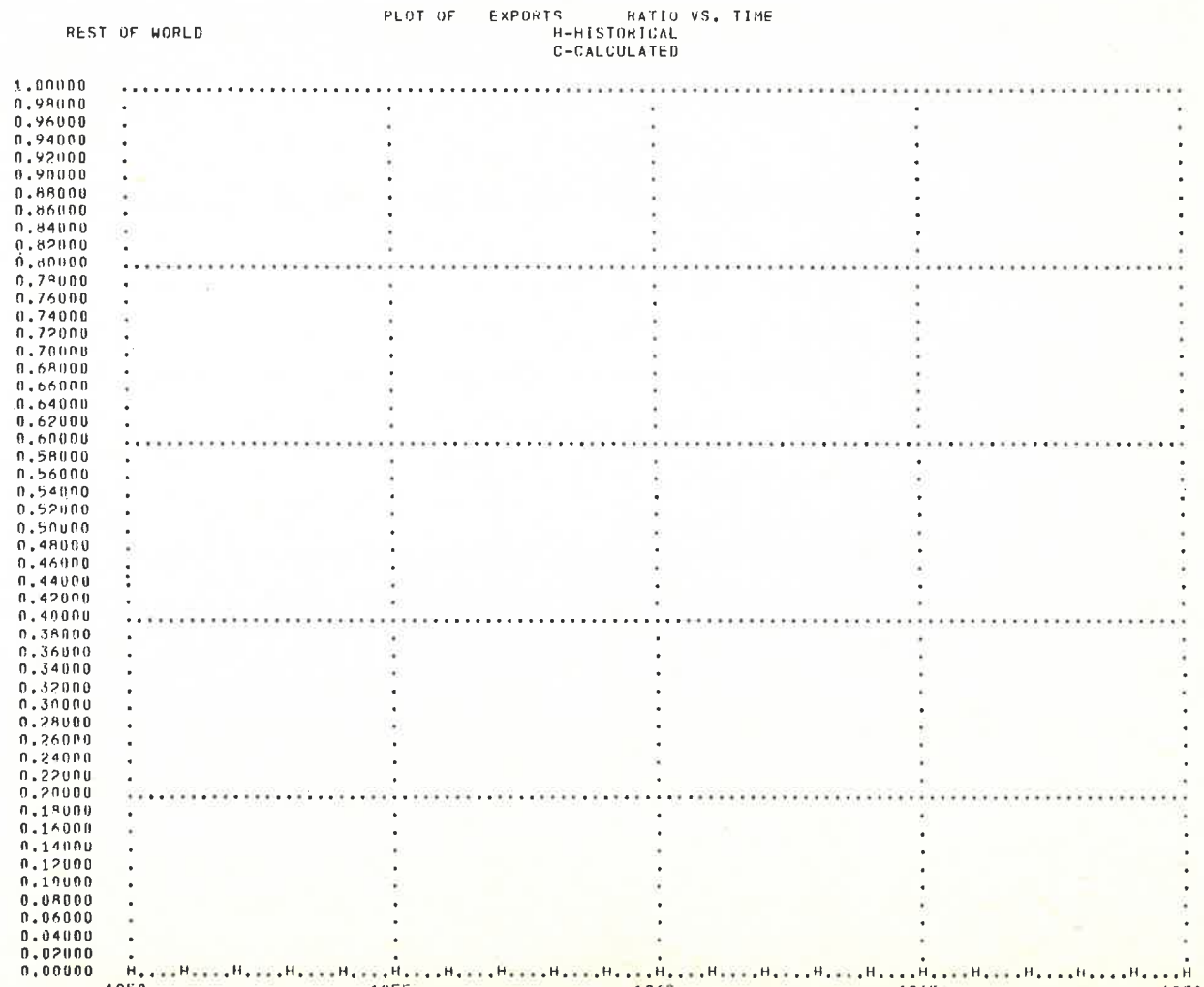
PLOT OF INVESTMENT RATIO VS. TIME
H=HISTORICAL
C=CALCULATED



REST OF WORLD

PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF EXPORTS RATIO VS. TIME
REST OF WORLD
H-HISTORICAL
C-CALCULATED
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0.98000
0.96000
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
0.82000
0.80000
0.78000
0.76000
0.74000
0.72000
0.70000
0.68000
0.66000
0.64000
0.62000
0.60000
0.58000
0.56000
0.54000
0.52000
0.50000
0.48000
0.46000
0.44000
0.42000
0.40000
0.38000
0.36000
0.34000
0.32000
0.30000
0.28000
0.26000
0.24000
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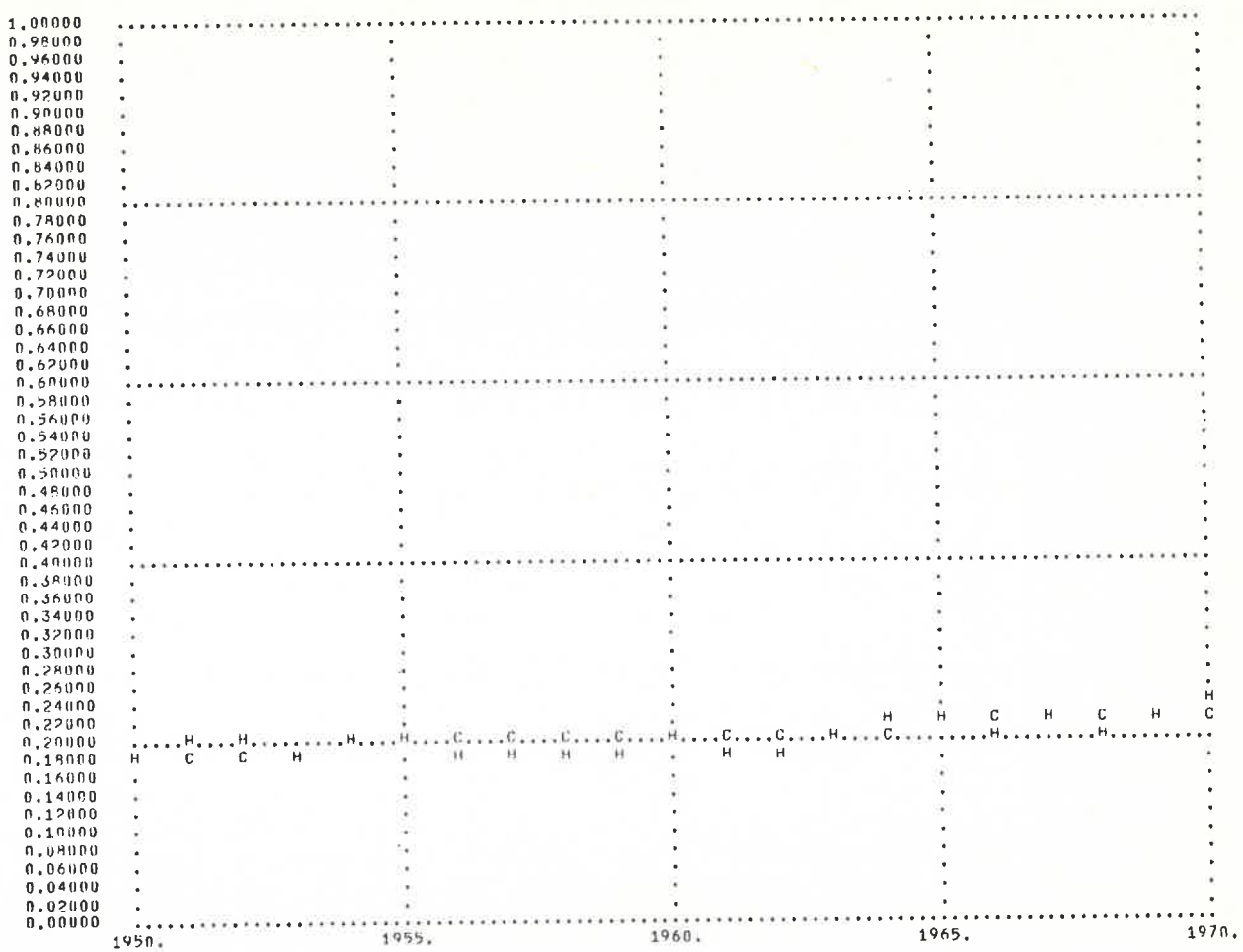
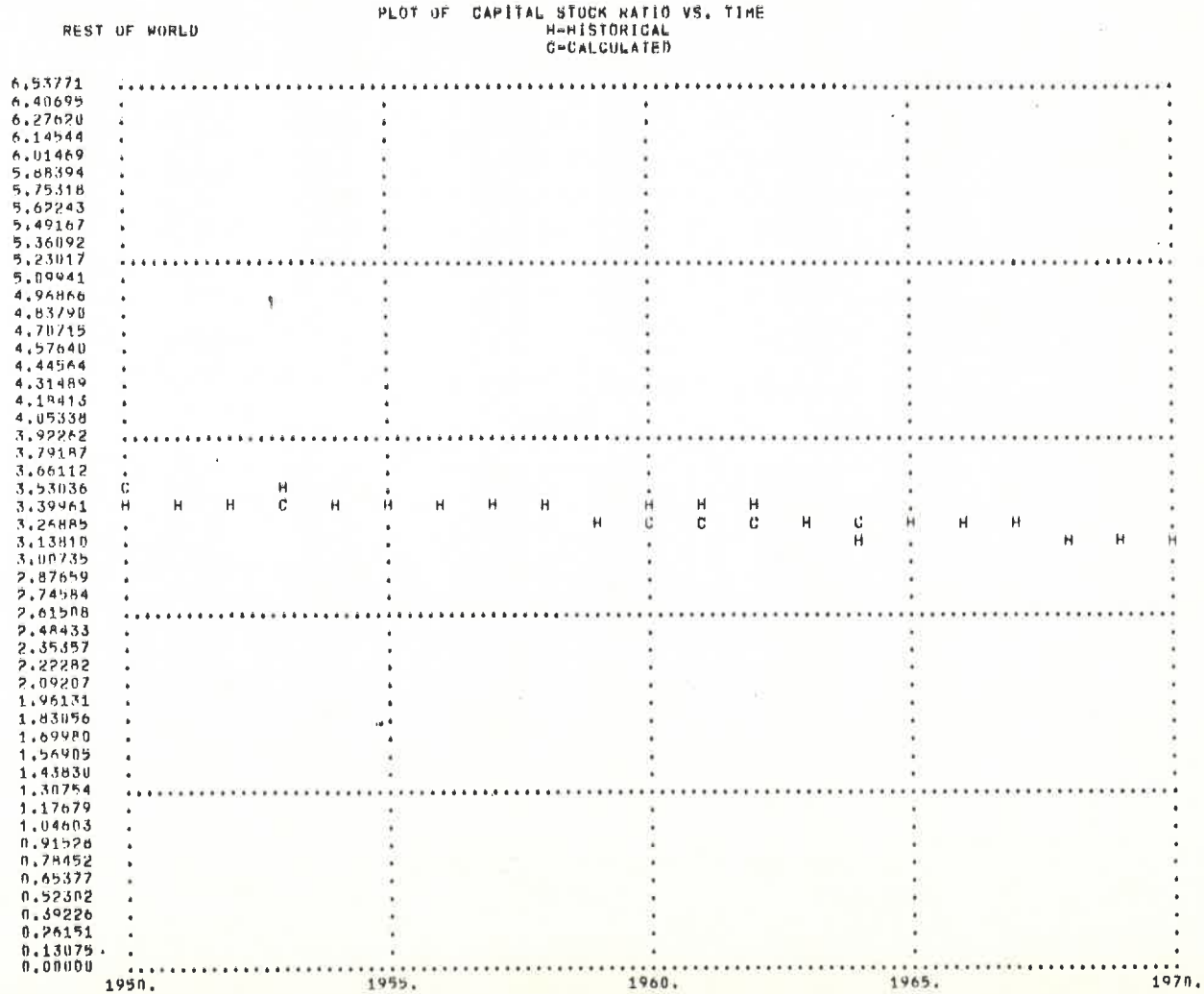
0.20000
0.18000
0.16000
0.14000
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

REST OF WORLD

PLOT OF IMPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF CAPITAL STOCK RATIO VS. TIME
REST OF WORLD
H=HISTORICAL
C=CALCULATED
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6.27620
6.14544
6.01469
5.88394
5.75318
5.62243
5.49167
5.36092
5.23017
5.09941
4.96866
4.83790
4.70715
4.57640
4.44564
4.31489
4.18413
4.05338
3.92262
3.79187
3.66112
3.53036
3.39961
3.26885
3.13810
3.00735
2.87659
2.74584
2.61508
2.48433
2.35357
2.22282
2.09207
1.96131
1.83056
1.69980
1.56905
1.43830
1.30754
1.17679
1.04603
0.91528
0.78452
0.65377
0.52302
0.39226
0.26151
0.13075
0.00000
1950.
1955.
1960.
1965.
1970.

CENTRAL PLANNED

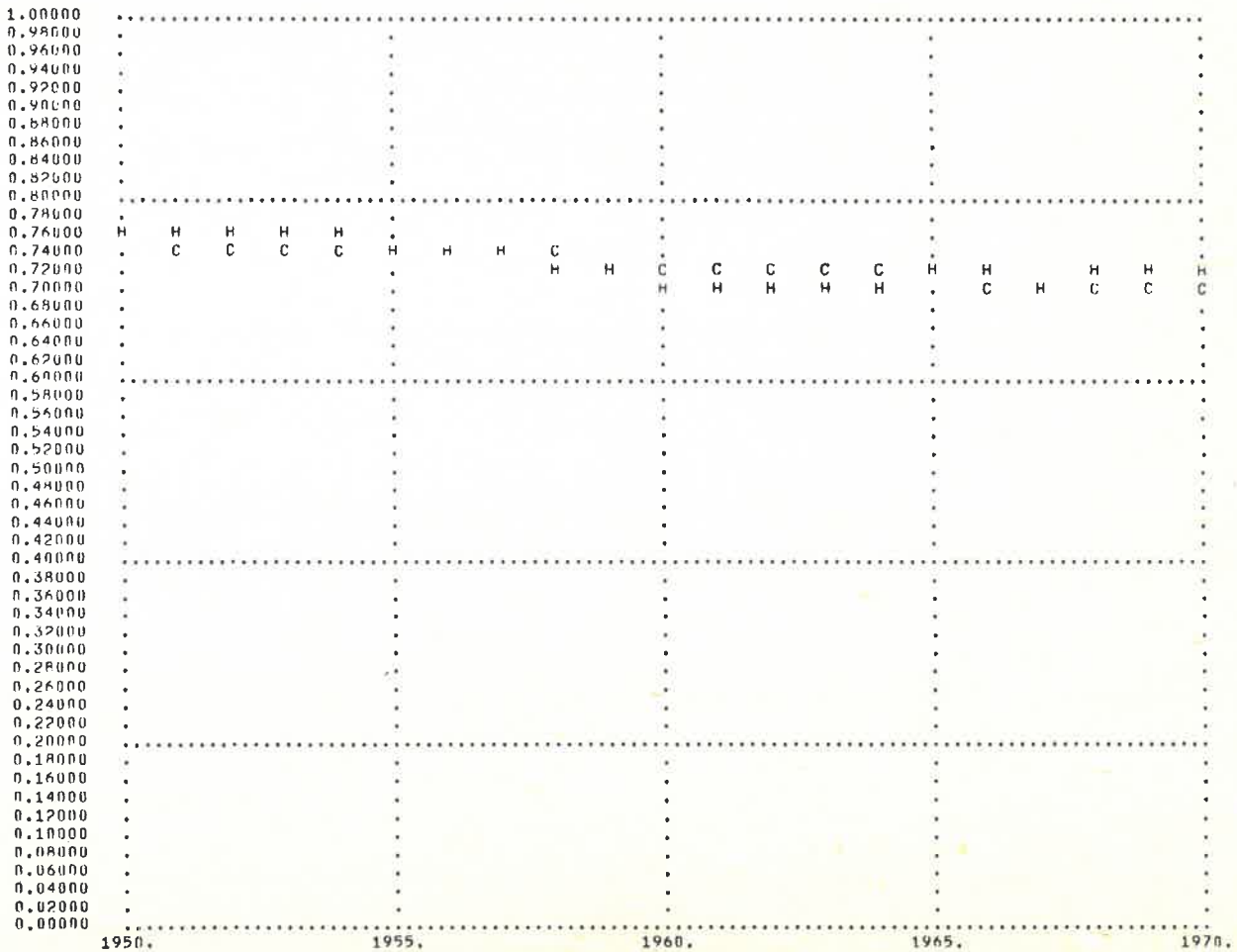
TABLE OF SECTOR-OUTPUT RATIOS

YEAR	CONSUMPTION HISTORICAL	CONSUMPTION CALCULATED	INVESTMENT HISTORICAL	INVESTMENT CALCULATED	GOVERNMENT HISTORICAL	GOVERNMENT CALCULATED
1950.	0.7620	0.7605	0.1430	0.1527	0.0880	0.0807
1951.	0.7620	0.7577	0.1430	0.1541	0.0880	0.0815
1952.	0.7620	0.7549	0.1430	0.1555	0.0880	0.0823
1953.	0.7620	0.7521	0.1430	0.1569	0.0880	0.0831
1954.	0.7600	0.7493	0.1480	0.1582	0.0840	0.0839
1955.	0.7570	0.7465	0.1520	0.1596	0.0800	0.0847
1956.	0.7440	0.7436	0.1670	0.1610	0.0780	0.0855
1957.	0.7440	0.7408	0.1670	0.1624	0.0780	0.0863
1958.	0.7310	0.7380	0.1830	0.1638	0.0770	0.0871
1959.	0.7210	0.7352	0.1860	0.1651	0.0810	0.0879
1960.	0.7120	0.7324	0.1900	0.1665	0.0840	0.0887
1961.	0.7140	0.7296	0.1850	0.1679	0.0880	0.0895
1962.	0.7080	0.7267	0.1900	0.1693	0.0890	0.0903
1963.	0.7120	0.7239	0.1800	0.1707	0.0940	0.0911
1964.	0.7140	0.7211	0.1790	0.1721	0.0970	0.0919
1965.	0.7230	0.7183	0.1670	0.1734	0.0950	0.0927
1966.	0.7190	0.7155	0.1680	0.1748	0.0970	0.0935
1967.	0.7160	0.7127	0.1680	0.1762	0.0970	0.0942
1968.	0.7190	0.7099	0.1650	0.1776	0.0970	0.0950
1969.	0.7190	0.7070	0.1650	0.1790	0.0970	0.0958
1970.	0.7190	0.7042	0.1650	0.1803	0.0970	0.0966

YEAR	EXPORTS HISTORICAL	EXPORTS CALCULATED	IMPORTS HISTORICAL	IMPORTS CALCULATED	CAPITAL STOCK HISTORICAL	CAPITAL STOCK CALCULATED
1950.	0.0050	0.0051	0.0383	0.0390	1.5559	1.3923
1951.	0.0049	0.0054	0.0358	0.0392	1.4891	1.4051
1952.	0.0055	0.0057	0.0396	0.0393	1.4788	1.4178
1953.	0.0061	0.0060	0.0442	0.0395	1.4766	1.4306
1954.	0.0066	0.0063	0.0418	0.0396	1.4227	1.4434
1955.	0.0065	0.0067	0.0373	0.0398	1.3689	1.4561
1956.	0.0085	0.0070	0.0365	0.0399	1.3845	1.4689
1957.	0.0070	0.0073	0.0372	0.0401	1.3766	1.4816
1958.	0.0074	0.0076	0.0381	0.0403	1.3807	1.4944
1959.	0.0085	0.0079	0.0410	0.0404	1.3907	1.5071
1960.	0.0086	0.0082	0.0394	0.0406	1.4298	1.5199
1961.	0.0090	0.0086	0.0407	0.0407	1.4762	1.5327
1962.	0.0096	0.0089	0.0456	0.0409	1.5514	1.5454
1963.	0.0099	0.0092	0.0466	0.0410	1.6293	1.5582
1964.	0.0099	0.0095	0.0493	0.0412	1.6173	1.5709
1965.	0.0099	0.0098	0.0425	0.0413	1.6590	1.5837
1966.	0.0097	0.0101	0.0400	0.0415	1.6361	1.5965
1967.	0.0101	0.0105	0.0385	0.0416	1.6272	1.6092
1968.	0.0106	0.0108	0.0393	0.0418	1.6396	1.6220
1969.	0.0108	0.0111	0.0409	0.0419	1.6762	1.6347
1970.	0.0109	0.0114	0.0390	0.0421	1.6511	1.6475

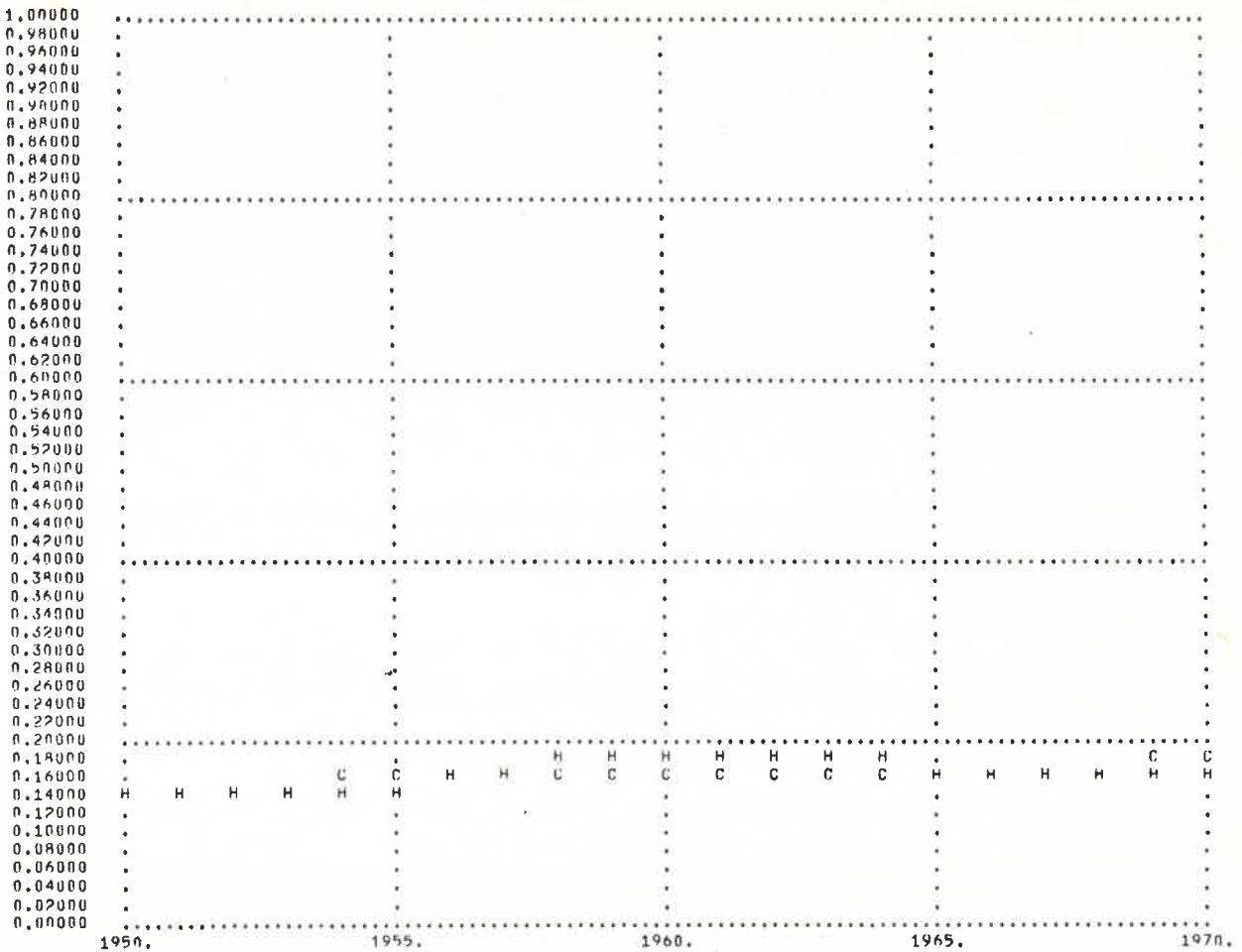
CENTRAL PLANNED

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



CENTRAL PLANNED

PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED

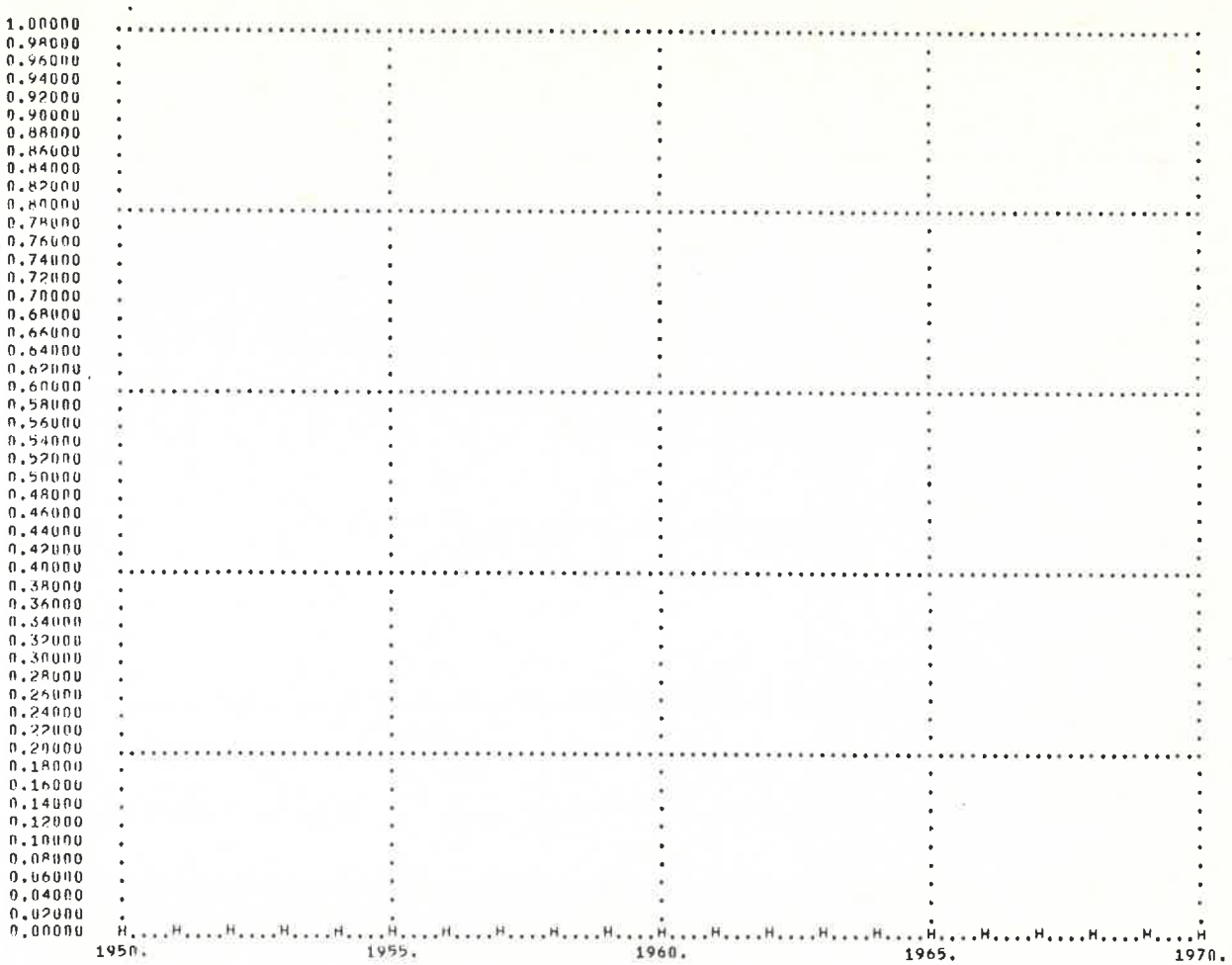


CENTRAL PLANNED

PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED

CENTRAL PLANNED

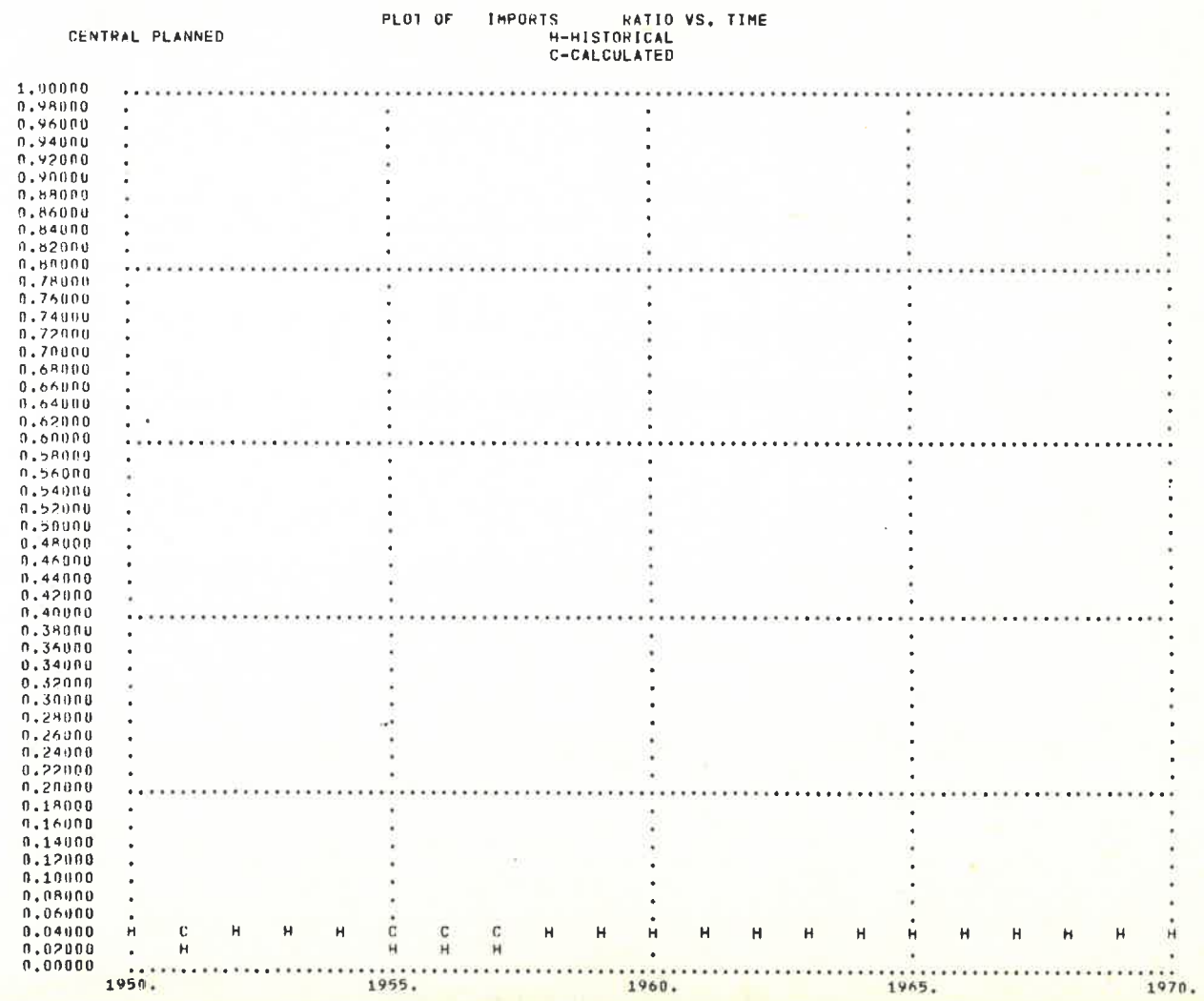
PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



PLOT OF IMPORTS RATIO VS. TIME

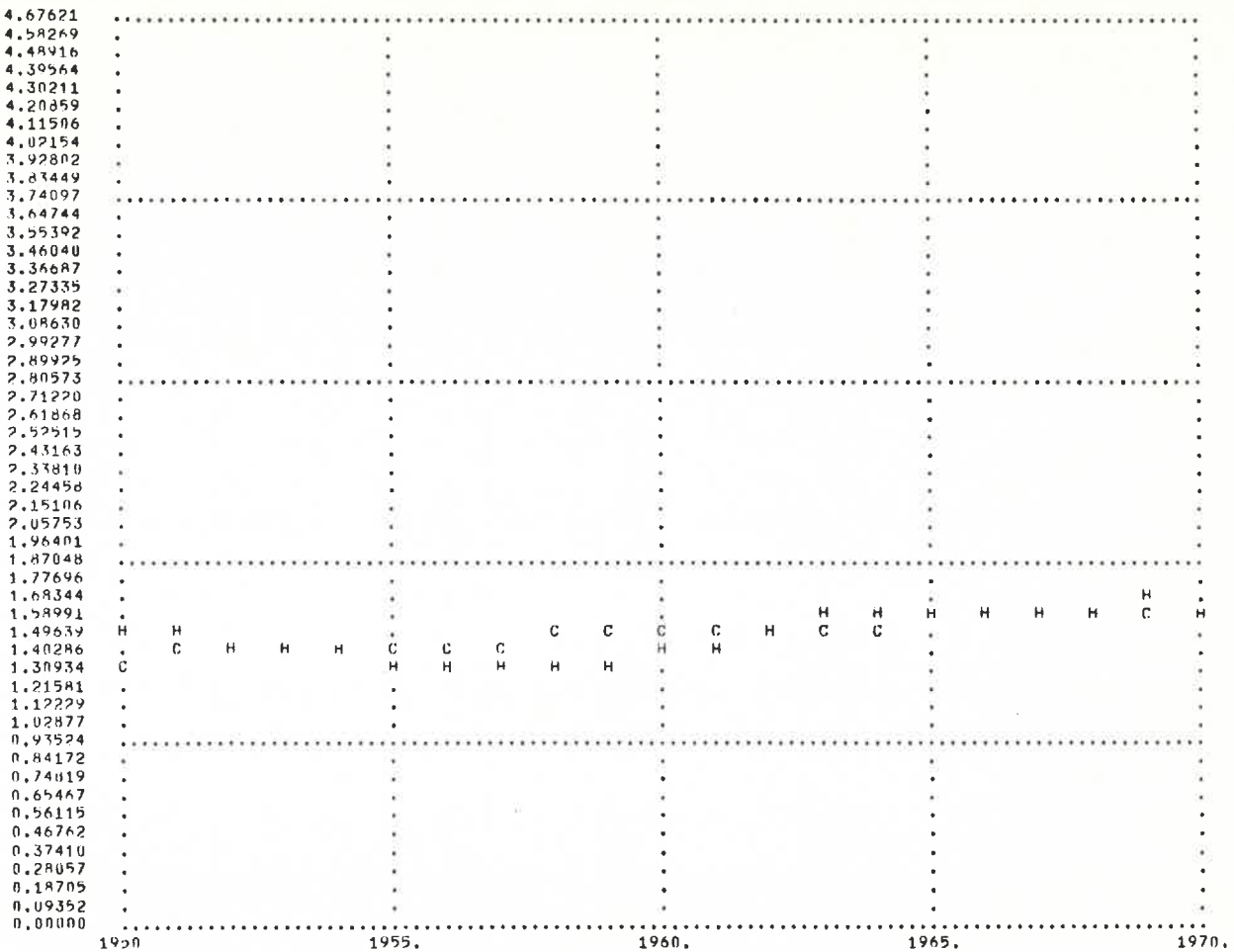
CENTRAL PLANNED

H-HISTORICAL
C-CALCULATED



CENTRAL PLANNED

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



LATIN AMERICA

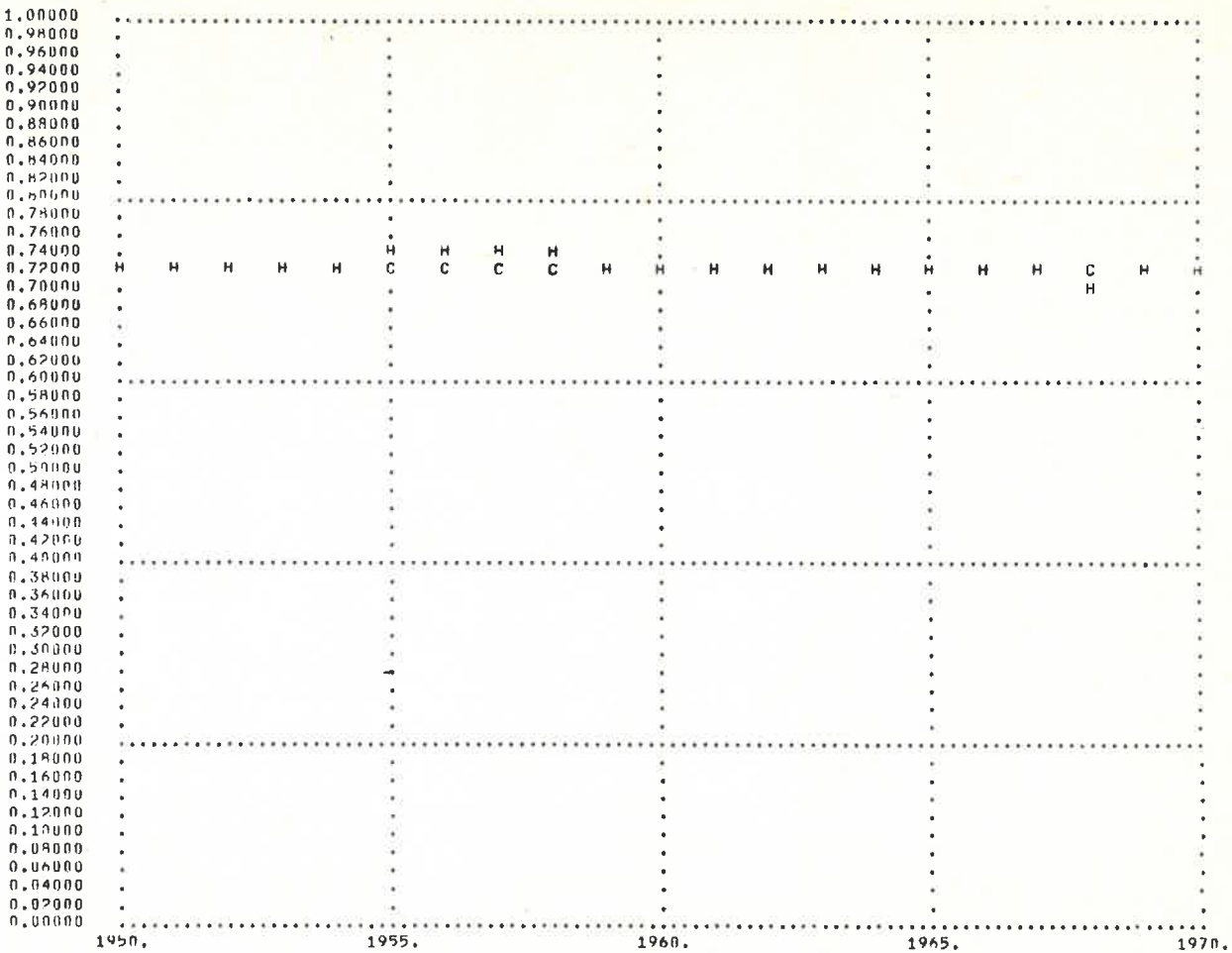
TABLE OF SECTOR-OUTPUT RATIOS

	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.7222	0.7347	0.1695	0.1651	0.1074	0.1113
1951.	0.7222	0.7340	0.1695	0.1655	0.1074	0.1103
1952.	0.7222	0.7333	0.1695	0.1659	0.1074	0.1093
1953.	0.7222	0.7327	0.1695	0.1662	0.1074	0.1082
1954.	0.7351	0.7320	0.1693	0.1666	0.1084	0.1072
1955.	0.7483	0.7314	0.1691	0.1670	0.1093	0.1062
1956.	0.7470	0.7307	0.1637	0.1673	0.1056	0.1052
1957.	0.7475	0.7301	0.1636	0.1677	0.1065	0.1042
1958.	0.7445	0.7294	0.1586	0.1681	0.1024	0.1032
1959.	0.7368	0.7288	0.1642	0.1685	0.1056	0.1022
1960.	0.7260	0.7281	0.1720	0.1688	0.1013	0.1012
1961.	0.7235	0.7275	0.1744	0.1692	0.1003	0.1001
1962.	0.7208	0.7268	0.1698	0.1696	0.0990	0.0991
1963.	0.7193	0.7262	0.1591	0.1700	0.1019	0.0981
1964.	0.7255	0.7255	0.1658	0.1703	0.1005	0.0971
1965.	0.7243	0.7249	0.1585	0.1707	0.0958	0.0961
1966.	0.7233	0.7242	0.1637	0.1711	0.0976	0.0951
1967.	0.7248	0.7235	0.1666	0.1714	0.0954	0.0941
1968.	0.7153	0.7229	0.1833	0.1718	0.0902	0.0930
1969.	0.7196	0.7222	0.1818	0.1722	0.0872	0.0920
1970.	0.7201	0.7216	0.1841	0.1726	0.0876	0.0910

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0051	0.0044	0.1112	0.1104	2.7738	2.7084
1951.	0.0050	0.0045	0.1112	0.1122	2.7078	2.6786
1952.	0.0049	0.0047	0.1112	0.1141	2.7016	2.6487
1953.	0.0049	0.0049	0.1112	0.1160	2.6990	2.6189
1954.	0.0049	0.0050	0.1217	0.1179	2.5732	2.5891
1955.	0.0047	0.0052	0.1327	0.1198	2.5123	2.5592
1956.	0.0046	0.0054	0.1205	0.1217	2.4995	2.5294
1957.	0.0046	0.0055	0.1205	0.1235	2.4540	2.4995
1958.	0.0047	0.0057	0.1086	0.1254	2.3883	2.4697
1959.	0.0048	0.0058	0.1124	0.1273	2.4188	2.4399
1960.	0.0069	0.0060	0.1473	0.1292	2.3695	2.4100
1961.	0.0069	0.0062	0.1441	0.1311	2.3142	2.3802
1962.	0.0071	0.0063	0.1410	0.1330	2.3226	2.3503
1963.	0.0071	0.0065	0.1345	0.1349	2.3533	2.3205
1964.	0.0067	0.0067	0.1366	0.1367	2.2642	2.2907
1965.	0.0072	0.0068	0.1335	0.1386	2.2410	2.2608
1966.	0.0070	0.0070	0.1343	0.1405	2.2376	2.2310
1967.	0.0069	0.0072	0.1377	0.1424	2.2428	2.2012
1968.	0.0074	0.0073	0.1493	0.1443	2.2035	2.1713
1969.	0.0074	0.0075	0.1464	0.1462	2.1757	2.1415
1970.	0.0074	0.0077	0.1473	0.1480	2.1577	2.1116

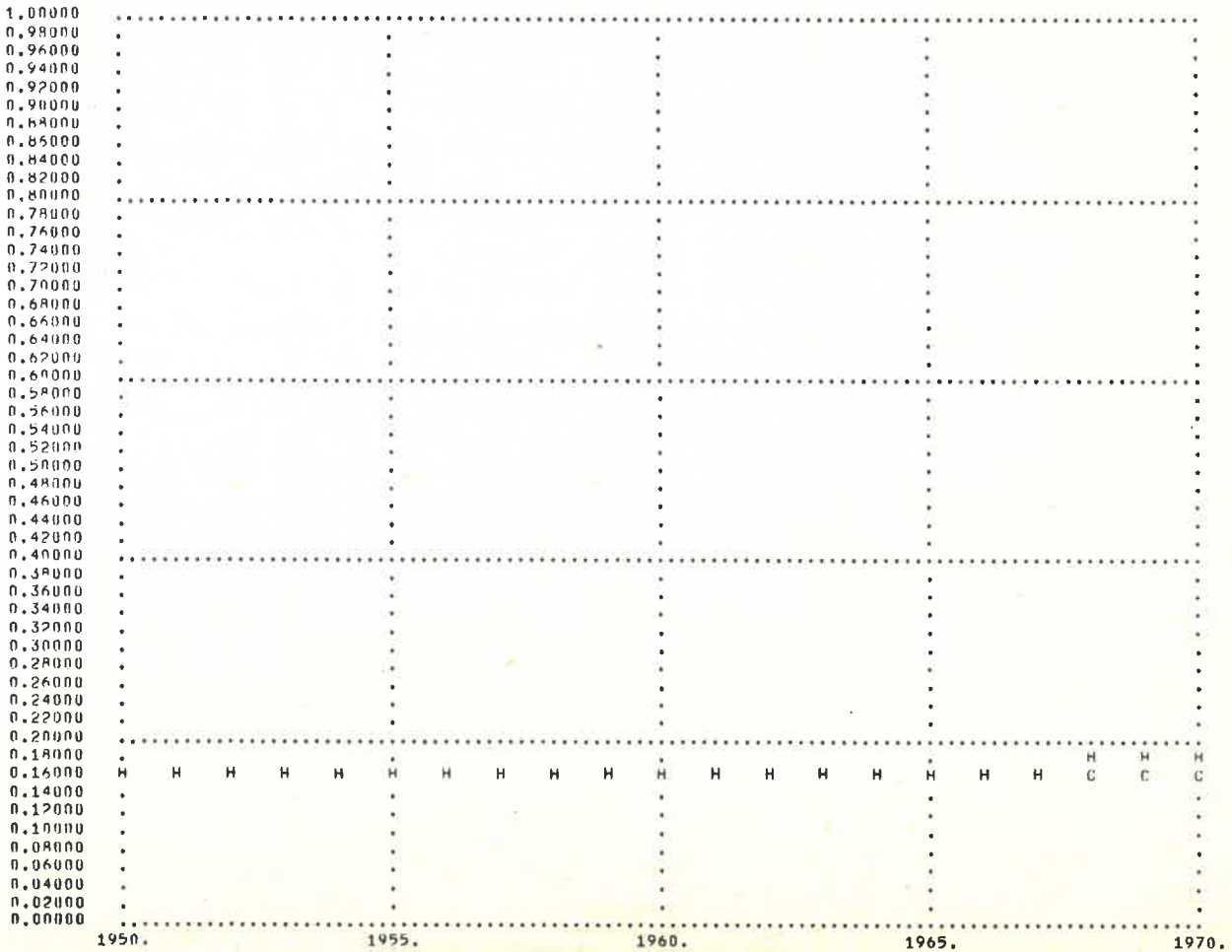
LATIN AMERICA

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



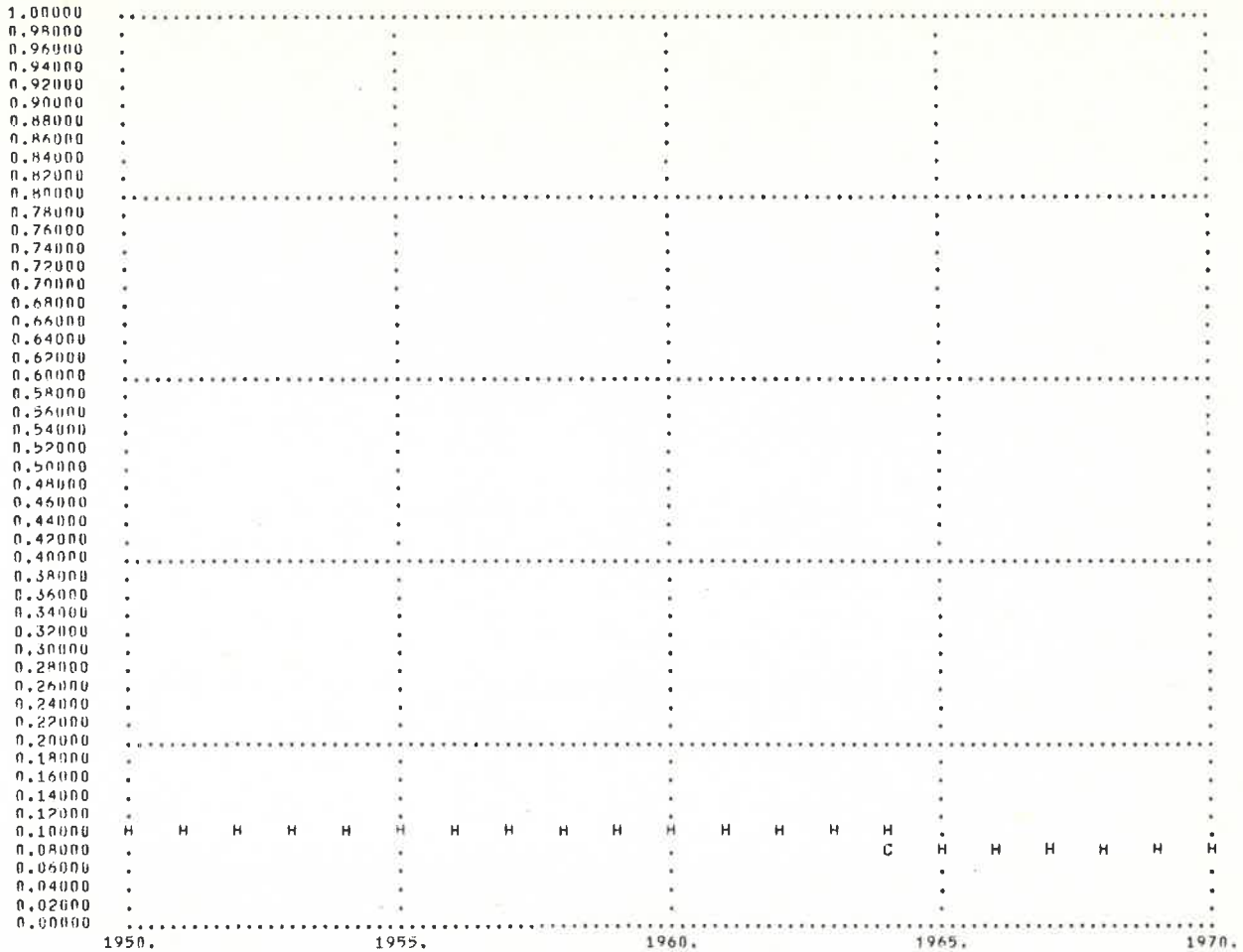
LATIN AMERICA

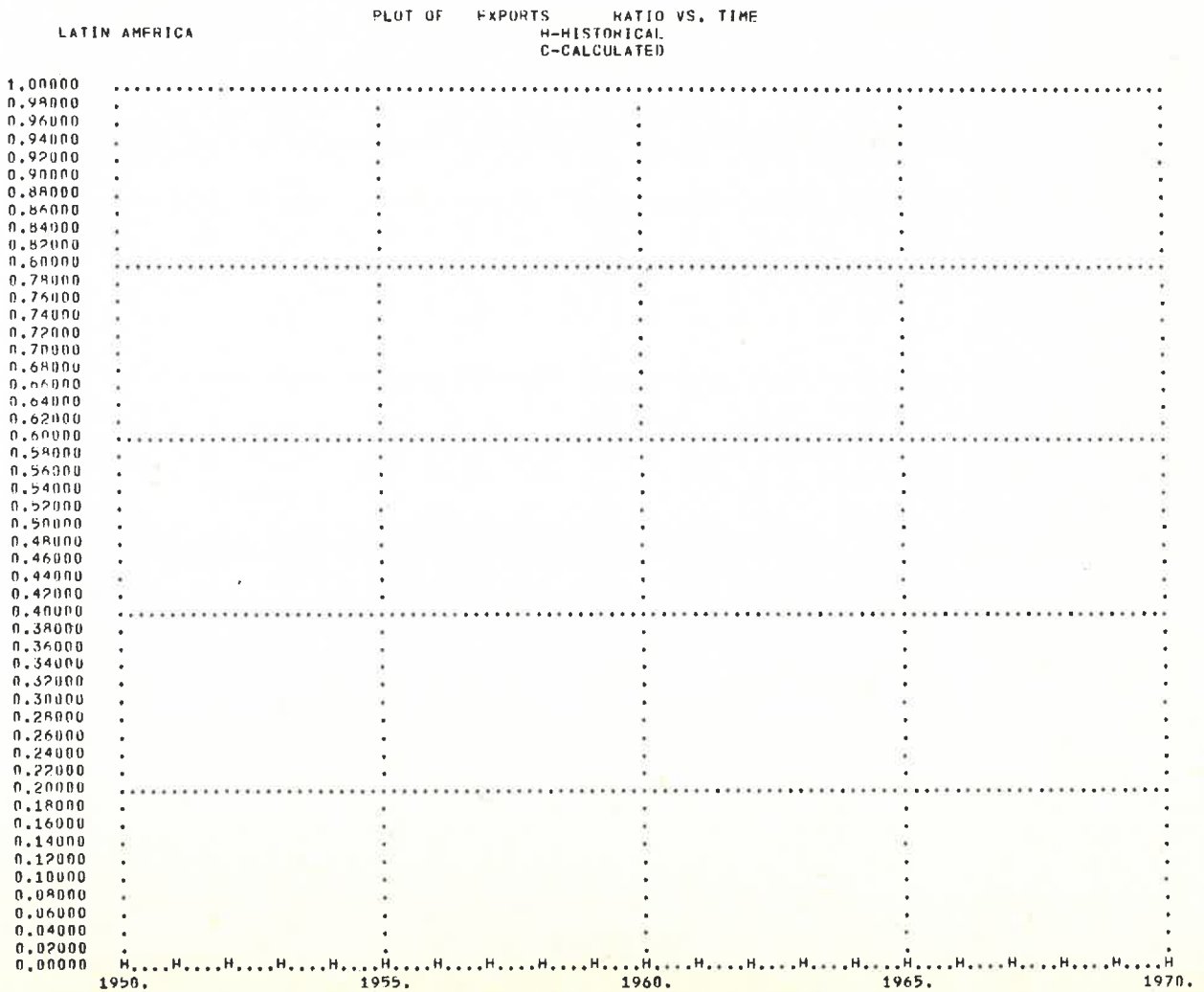
PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



LATIN AMERICA

PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF EXPORTS RATIO VS. TIME
LATIN AMERICA
H-HISTORICAL
C-CALCULATED
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0.96000
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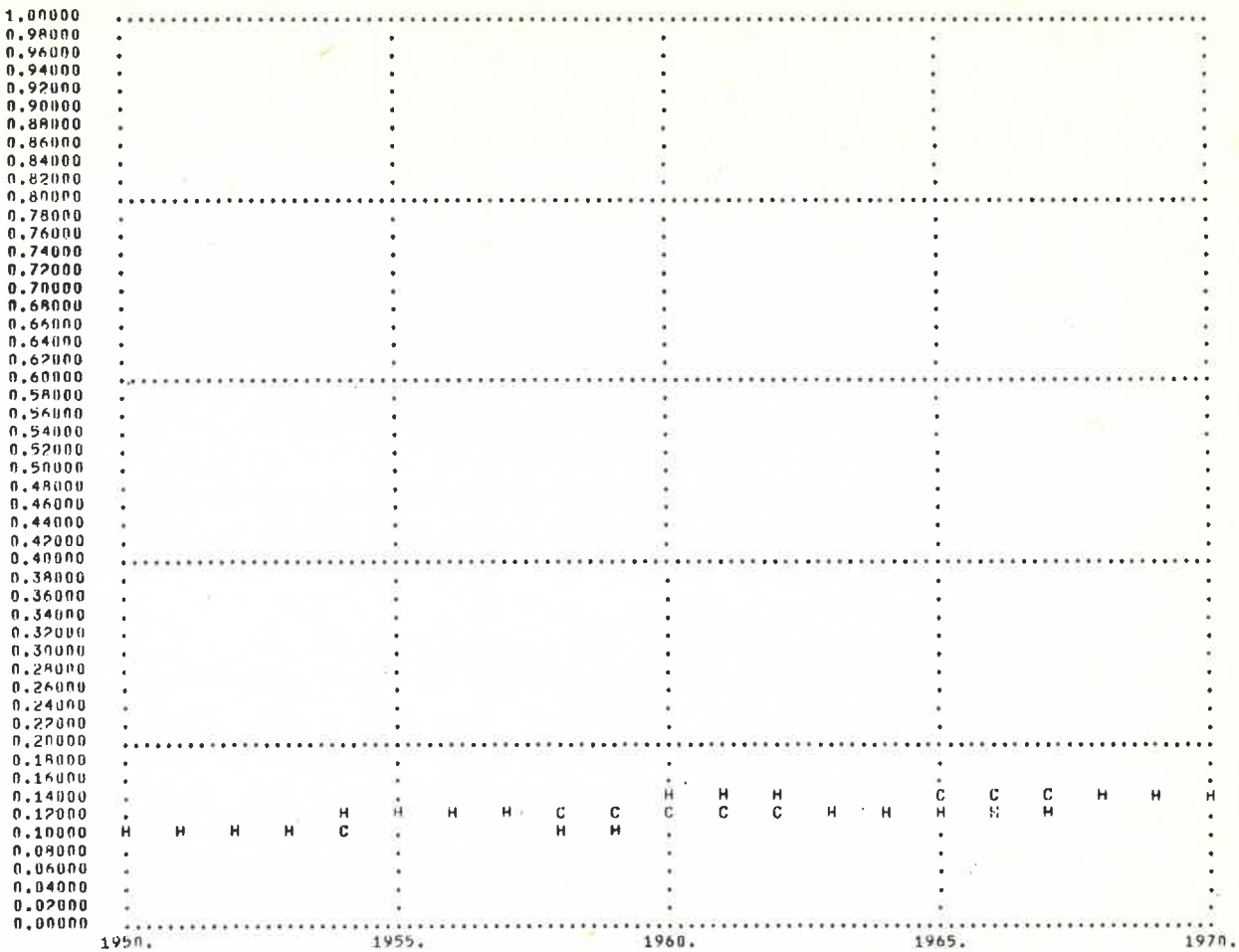
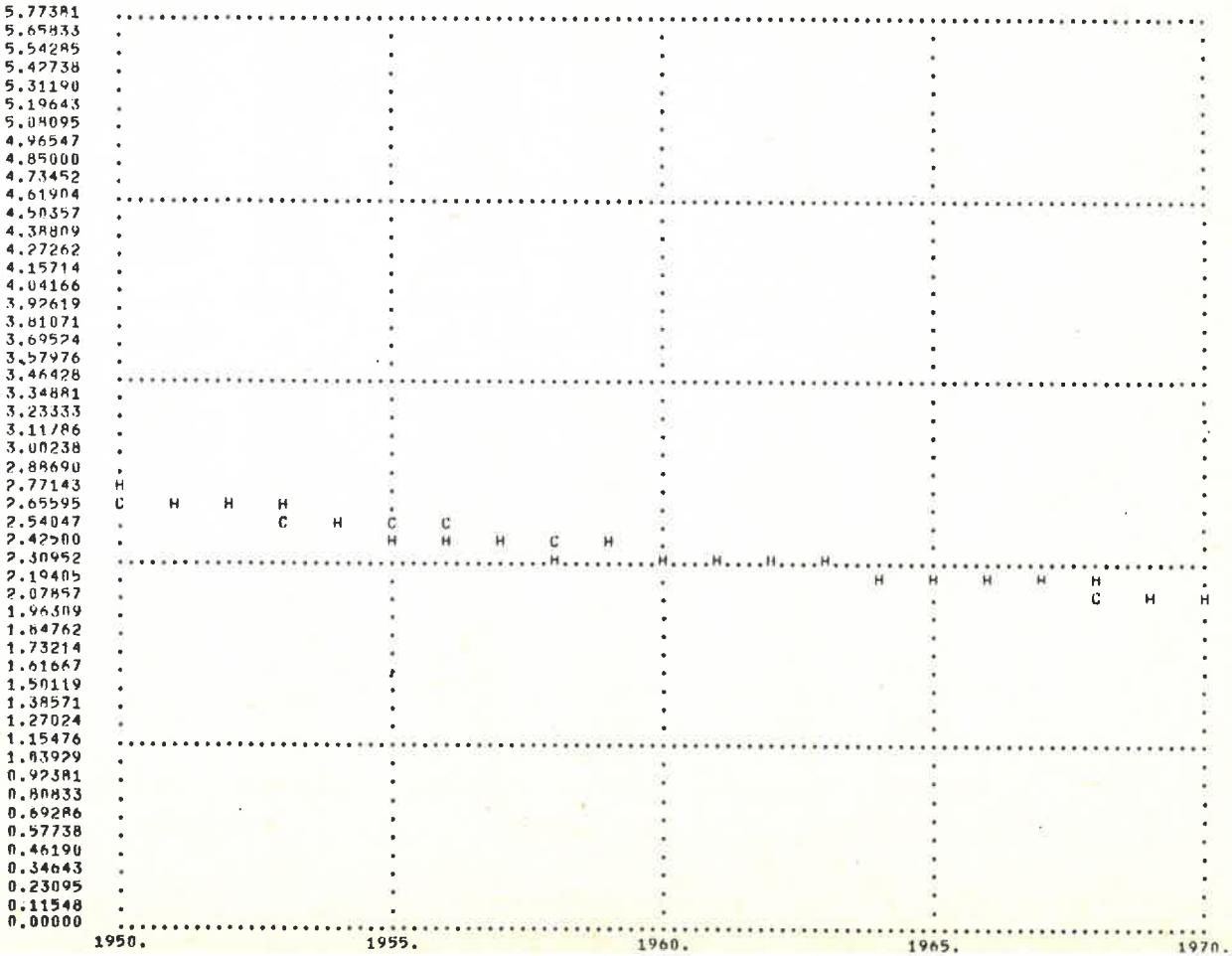
LATIN AMERICA

PLOT OF IMPORTS . RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



LATIN AMERICA

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



MIDDLE EAST

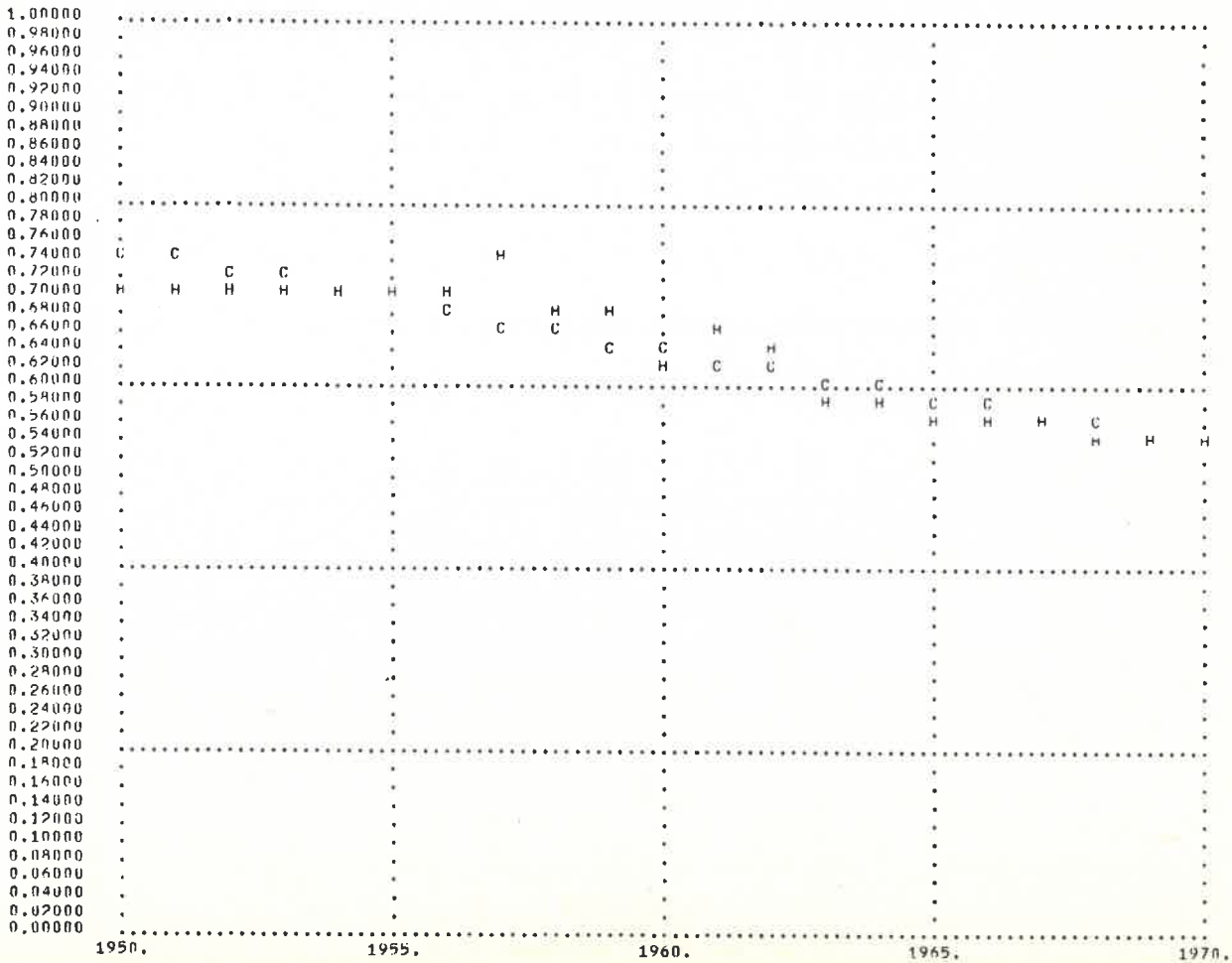
TABLE OF SECTOR-OUTPUT RATIOS

	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.7120	0.7507	0.1430	0.1325	0.1080	0.0943
1951.	0.7120	0.7402	0.1430	0.1341	0.1080	0.0988
1952.	0.7120	0.7297	0.1430	0.1356	0.1080	0.1033
1953.	0.7120	0.7192	0.1430	0.1372	0.1080	0.1078
1954.	0.7120	0.7087	0.1430	0.1388	0.1080	0.1124
1955.	0.7120	0.6982	0.1430	0.1404	0.1090	0.1169
1956.	0.7060	0.6876	0.1480	0.1420	0.1200	0.1214
1957.	0.7430	0.6771	0.1039	0.1436	0.1290	0.1259
1958.	0.6870	0.6666	0.1350	0.1452	0.1320	0.1304
1959.	0.6830	0.6561	0.1280	0.1468	0.1360	0.1350
1960.	0.6370	0.6456	0.1460	0.1484	0.1320	0.1395
1961.	0.6640	0.6351	0.1480	0.1500	0.1300	0.1440
1962.	0.6460	0.6246	0.1440	0.1516	0.1340	0.1485
1963.	0.5900	0.6141	0.1610	0.1531	0.1470	0.1530
1964.	0.5790	0.6036	0.1560	0.1547	0.1510	0.1576
1965.	0.5710	0.5931	0.1610	0.1563	0.1580	0.1621
1966.	0.5680	0.5826	0.1630	0.1579	0.1630	0.1666
1967.	0.5740	0.5721	0.1690	0.1595	0.1770	0.1711
1968.	0.5490	0.5616	0.1680	0.1611	0.1860	0.1756
1969.	0.5450	0.5511	0.1620	0.1627	0.1910	0.1802
1970.	0.5440	0.5406	0.1650	0.1643	0.1950	0.1847

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0048	0.0043	0.2700	0.2740	1.1593	1.1940
1951.	0.0047	0.0044	0.2700	0.2717	1.1760	1.2090
1952.	0.0047	0.0045	0.2700	0.2695	1.1928	1.2239
1953.	0.0047	0.0045	0.2700	0.2673	1.2152	1.2388
1954.	0.0047	0.0046	0.2700	0.2650	1.2401	1.2537
1955.	0.0046	0.0047	0.2700	0.2628	1.2602	1.2686
1956.	0.0046	0.0048	0.2810	0.2606	1.2930	1.2835
1957.	0.0038	0.0048	0.2720	0.2583	1.3586	1.2984
1958.	0.0050	0.0049	0.2520	0.2561	1.3430	1.3133
1959.	0.0048	0.0050	0.2280	0.2539	1.3726	1.3282
1960.	0.0049	0.0050	0.2400	0.2516	1.3739	1.3431
1961.	0.0047	0.0051	0.2540	0.2494	1.3980	1.3580
1962.	0.0050	0.0052	0.2480	0.2472	1.3967	1.3729
1963.	0.0053	0.0052	0.2380	0.2449	1.4164	1.3878
1964.	0.0054	0.0053	0.2270	0.2427	1.4013	1.4027
1965.	0.0056	0.0054	0.2290	0.2404	1.3837	1.4176
1966.	0.0055	0.0055	0.2350	0.2382	1.4334	1.4325
1967.	0.0052	0.0055	0.2390	0.2360	1.4713	1.4474
1968.	0.0056	0.0056	0.2340	0.2337	1.4367	1.4623
1969.	0.0060	0.0057	0.2410	0.2315	1.4338	1.4772
1970.	0.0062	0.0057	0.2460	0.2293	1.4488	1.4921

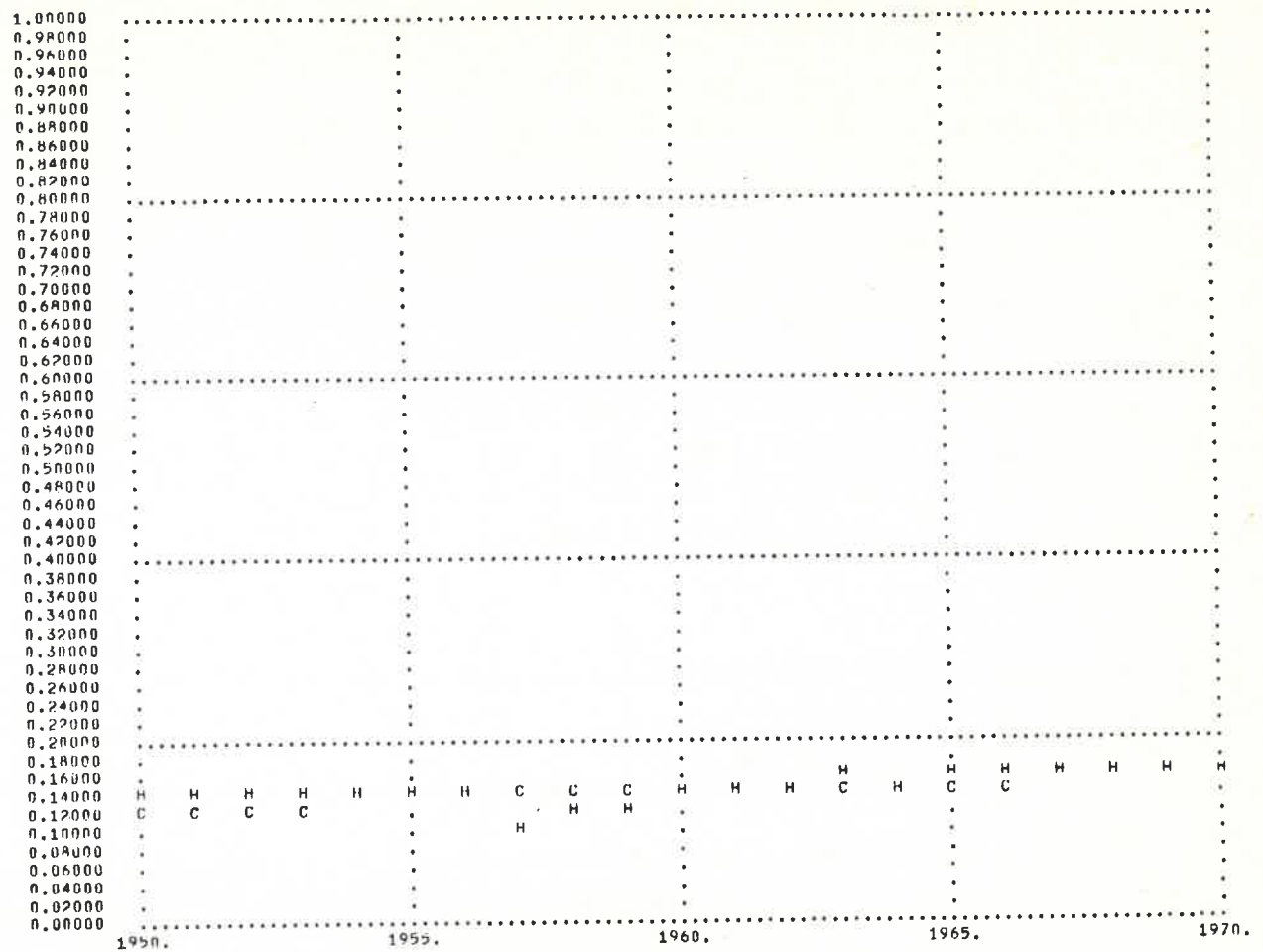
MIDDLE EAST

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



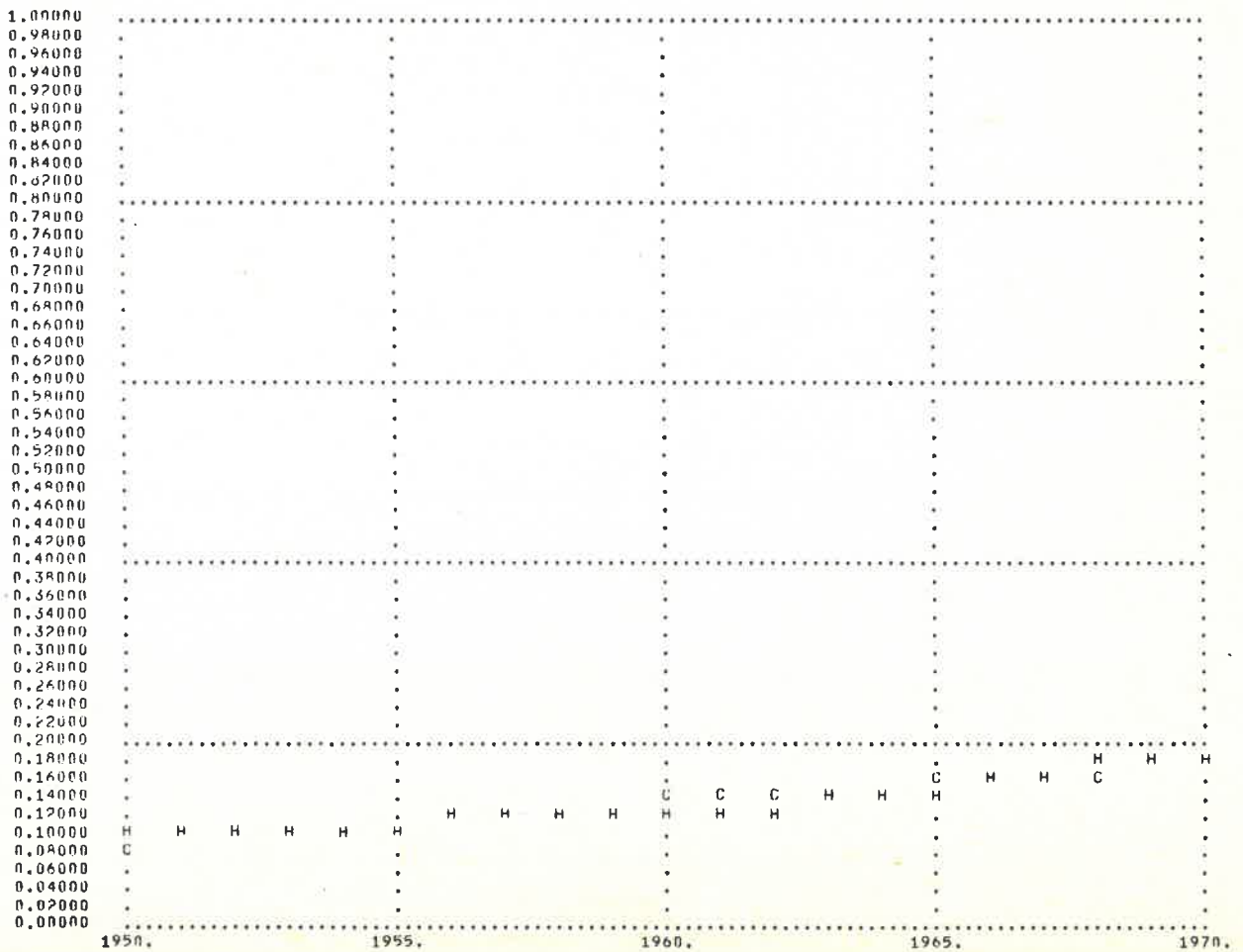
MIDDLE EAST

PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



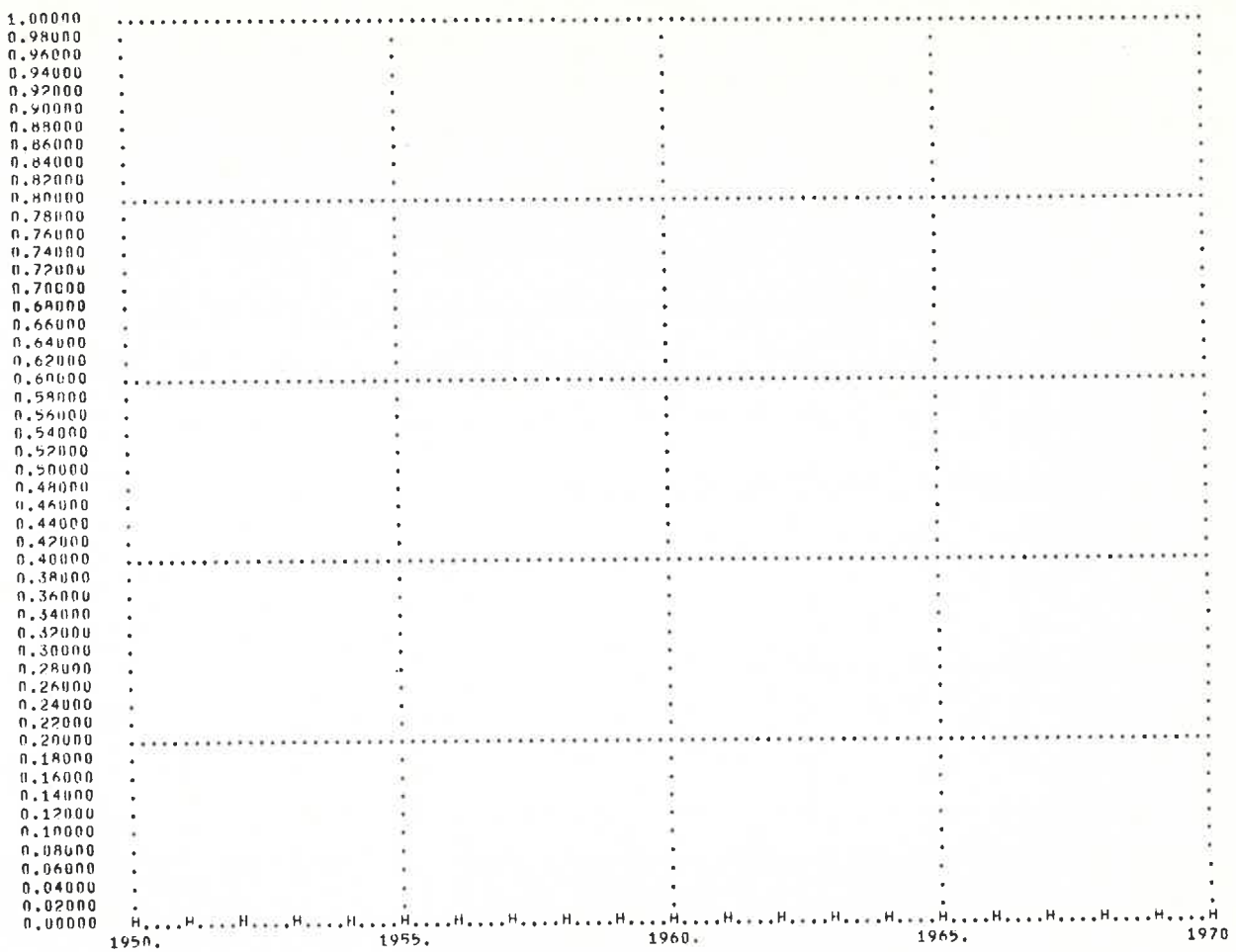
MIDDLE EAST

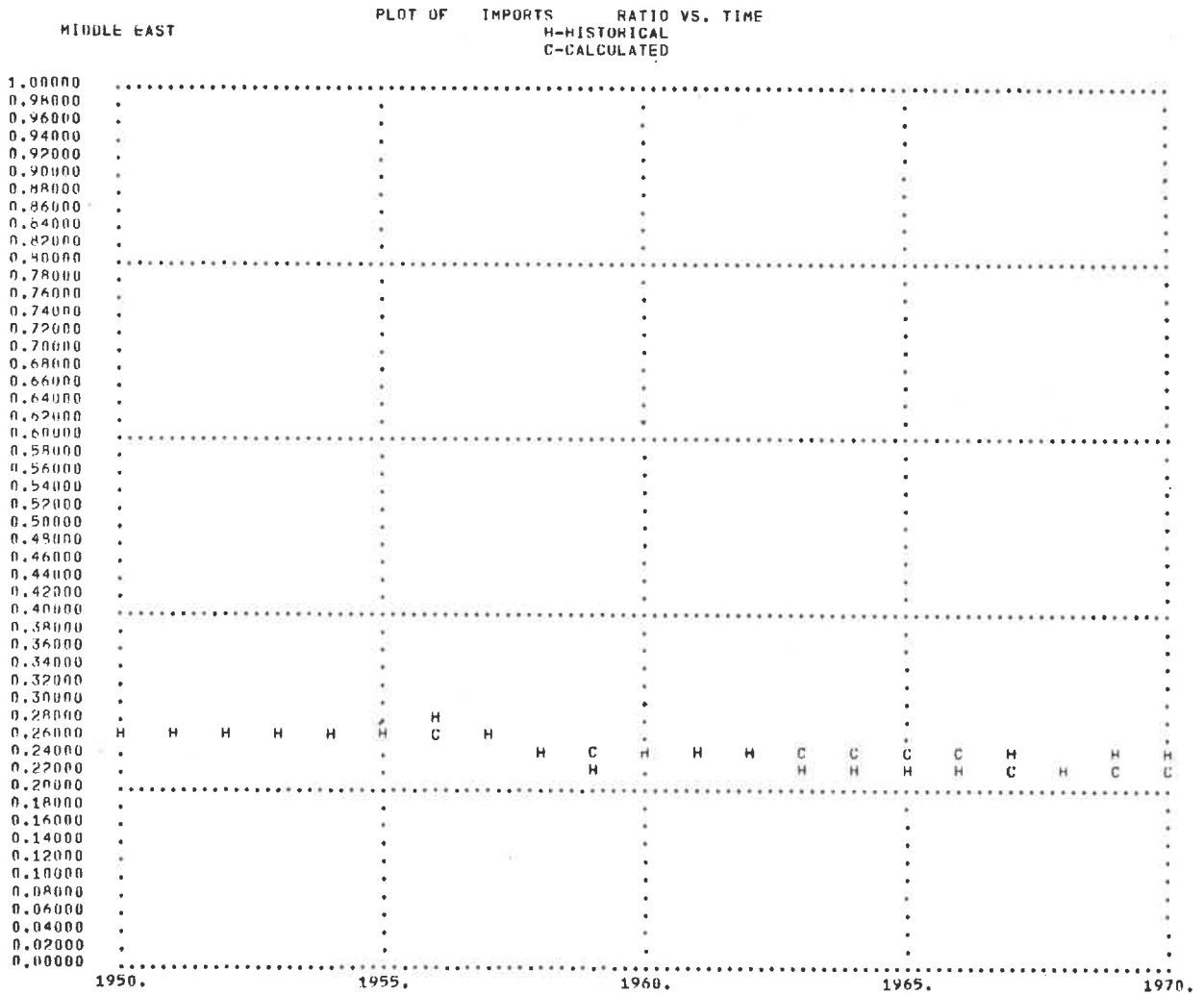
PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



MIDDLE EAST

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF IMPORTS RATIO VS. TIME
MIDDLE EAST
H-HISTORICAL
C-CALCULATED
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0.98000
0.96000
0.94000
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0.08000
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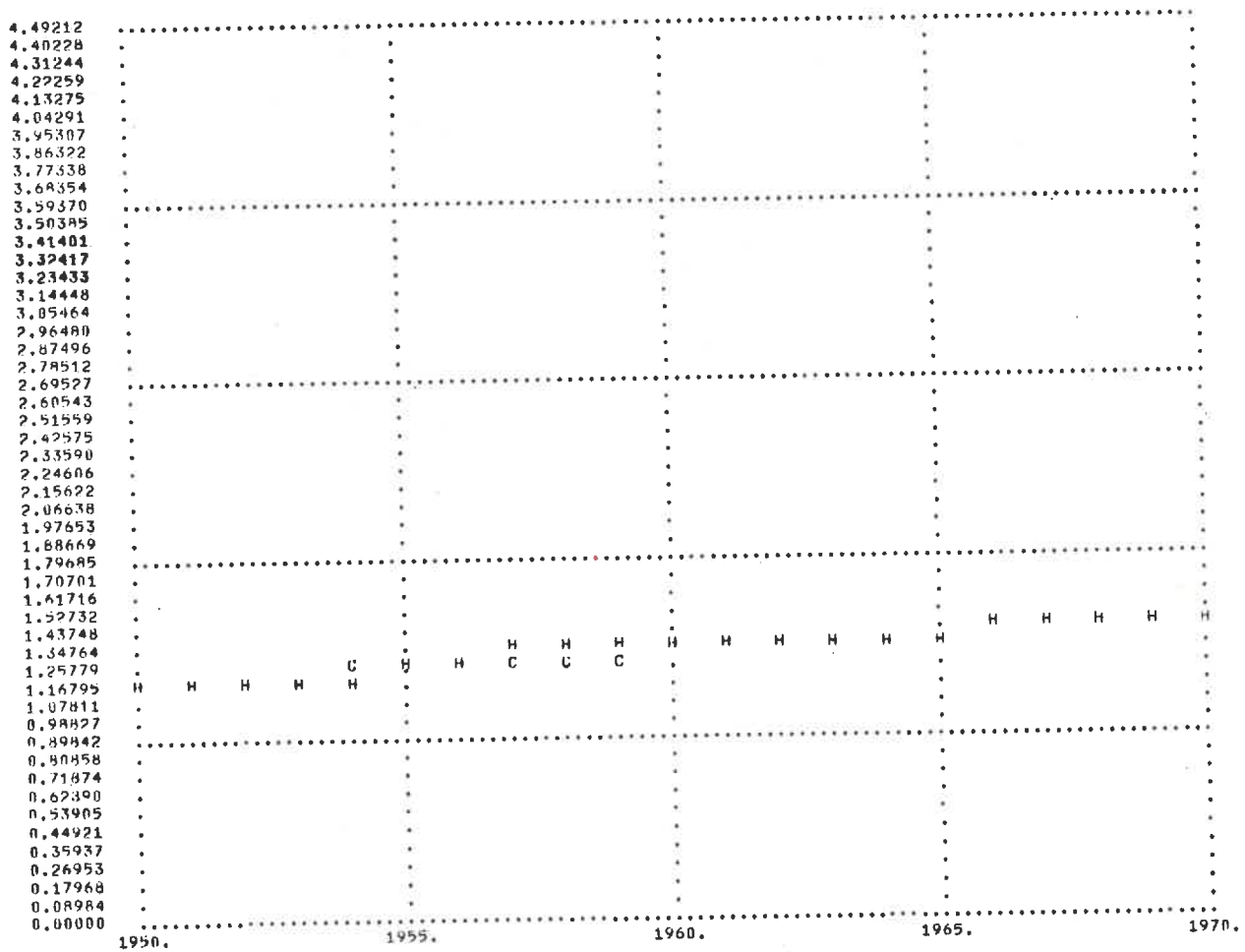
1950.
1955.
1960.
1965.
1970.

MIDDLE EAST

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



MAIN AFRICA

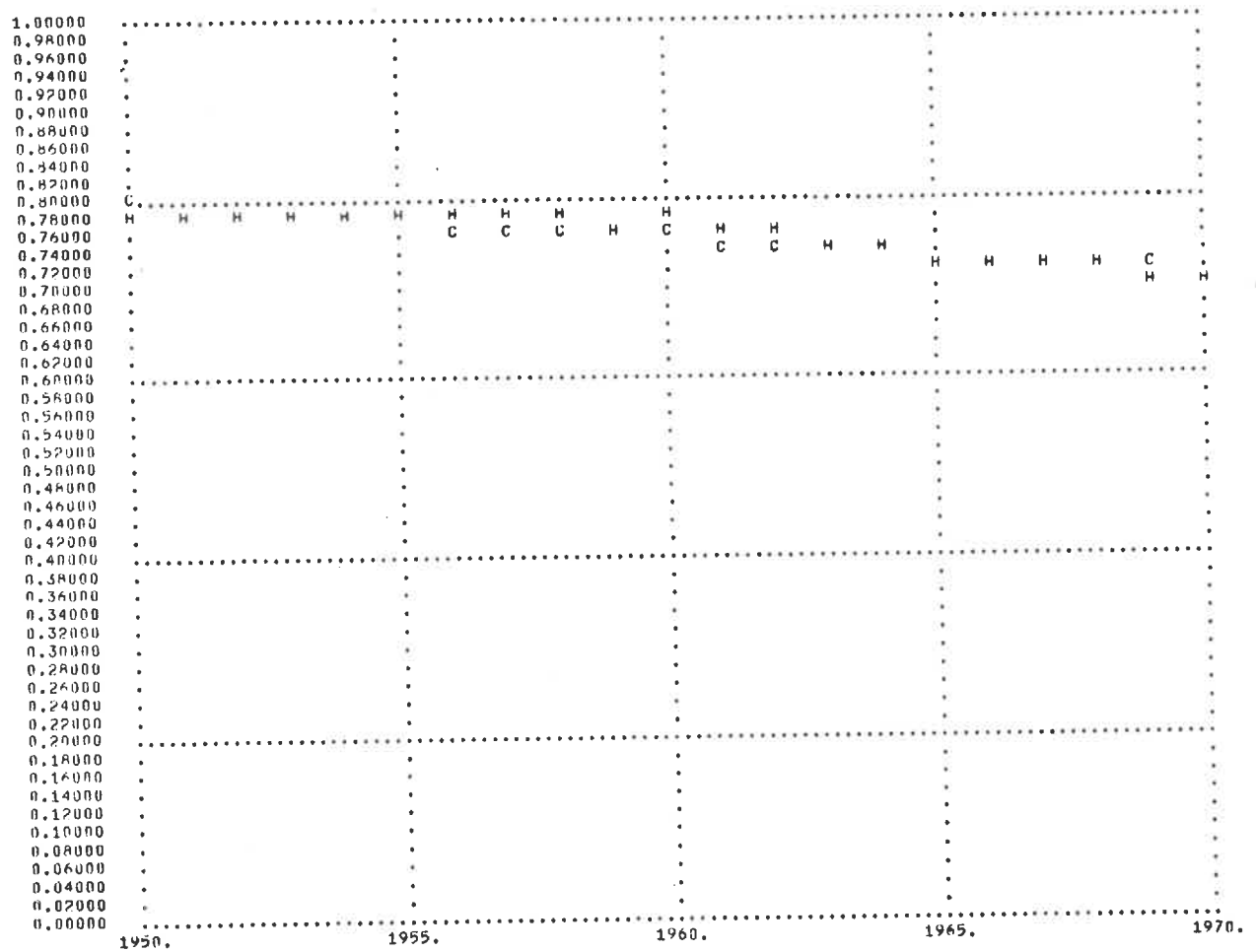
TABLE OF SECTOR-OUTPUT RATIOS

	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.7840	0.8014	0.1450	0.1426	0.0860	0.0770
1951.	0.7840	0.7972	0.1450	0.1429	0.0860	0.0791
1952.	0.7840	0.7929	0.1450	0.1432	0.0860	0.0813
1953.	0.7840	0.7887	0.1450	0.1435	0.0860	0.0834
1954.	0.7840	0.7844	0.1450	0.1438	0.0860	0.0855
1955.	0.7840	0.7802	0.1450	0.1441	0.0860	0.0876
1956.	0.7840	0.7760	0.1450	0.1444	0.0860	0.0898
1957.	0.7840	0.7717	0.1450	0.1447	0.0855	0.0919
1958.	0.7840	0.7675	0.1450	0.1450	0.0860	0.0940
1959.	0.7650	0.7632	0.1500	0.1454	0.0910	0.0961
1960.	0.7790	0.7590	0.1450	0.1457	0.0900	0.0983
1961.	0.7690	0.7548	0.1440	0.1460	0.0960	0.1004
1962.	0.7590	0.7505	0.1290	0.1463	0.0950	0.1025
1963.	0.7430	0.7463	0.1320	0.1466	0.1010	0.1046
1964.	0.7480	0.7420	0.1390	0.1469	0.1070	0.1068
1965.	0.7290	0.7378	0.1520	0.1472	0.1150	0.1089
1966.	0.7270	0.7335	0.1510	0.1475	0.1140	0.1110
1967.	0.7220	0.7293	0.1540	0.1478	0.1180	0.1132
1968.	0.7220	0.7251	0.1550	0.1482	0.1200	0.1153
1969.	0.7100	0.7208	0.1480	0.1485	0.1200	0.1174
1970.	0.7100	0.7166	0.1550	0.1488	0.1230	0.1195

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0023	0.0021	0.2140	0.2087	2.0000	1.9161
1951.	0.0022	0.0021	0.2140	0.2101	1.9579	1.9059
1952.	0.0022	0.0022	0.2140	0.2115	1.9216	1.8958
1953.	0.0022	0.0022	0.2140	0.2128	1.8911	1.8856
1954.	0.0023	0.0023	0.2140	0.2142	1.8660	1.8755
1955.	0.0022	0.0023	0.2140	0.2156	1.8454	1.8654
1956.	0.0023	0.0024	0.2140	0.2170	1.8294	1.8552
1957.	0.0023	0.0024	0.2140	0.2183	1.8173	1.8451
1958.	0.0024	0.0025	0.2140	0.2197	1.8099	1.8349
1959.	0.0026	0.0025	0.2260	0.2211	1.7796	1.8248
1960.	0.0026	0.0026	0.2250	0.2225	1.7112	1.8146
1961.	0.0025	0.0027	0.2180	0.2239	1.7665	1.8045
1962.	0.0025	0.0027	0.1920	0.2252	1.7888	1.7944
1963.	0.0027	0.0028	0.2030	0.2266	1.7803	1.7842
1964.	0.0031	0.0028	0.2500	0.2280	1.7651	1.7741
1965.	0.0032	0.0029	0.2620	0.2294	1.7652	1.7639
1966.	0.0030	0.0029	0.2430	0.2307	1.7795	1.7538
1967.	0.0030	0.0030	0.2360	0.2321	1.7562	1.7436
1968.	0.0029	0.0030	0.2380	0.2335	1.7736	1.7335
1969.	0.0030	0.0031	0.2220	0.2349	1.7484	1.7234
1970.	0.0030	0.0031	0.2310	0.2363	1.7547	1.7132

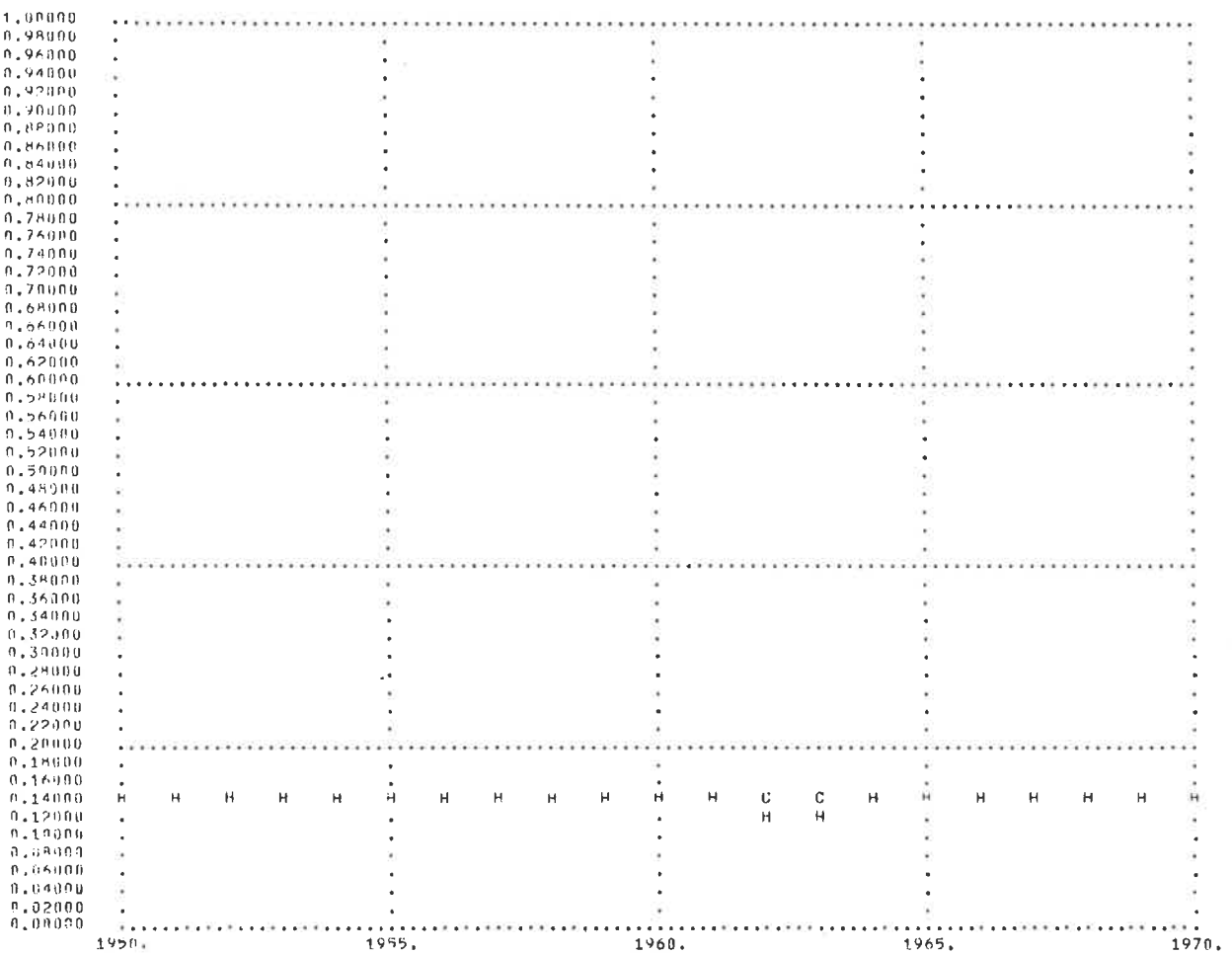
MAIN AFRICA

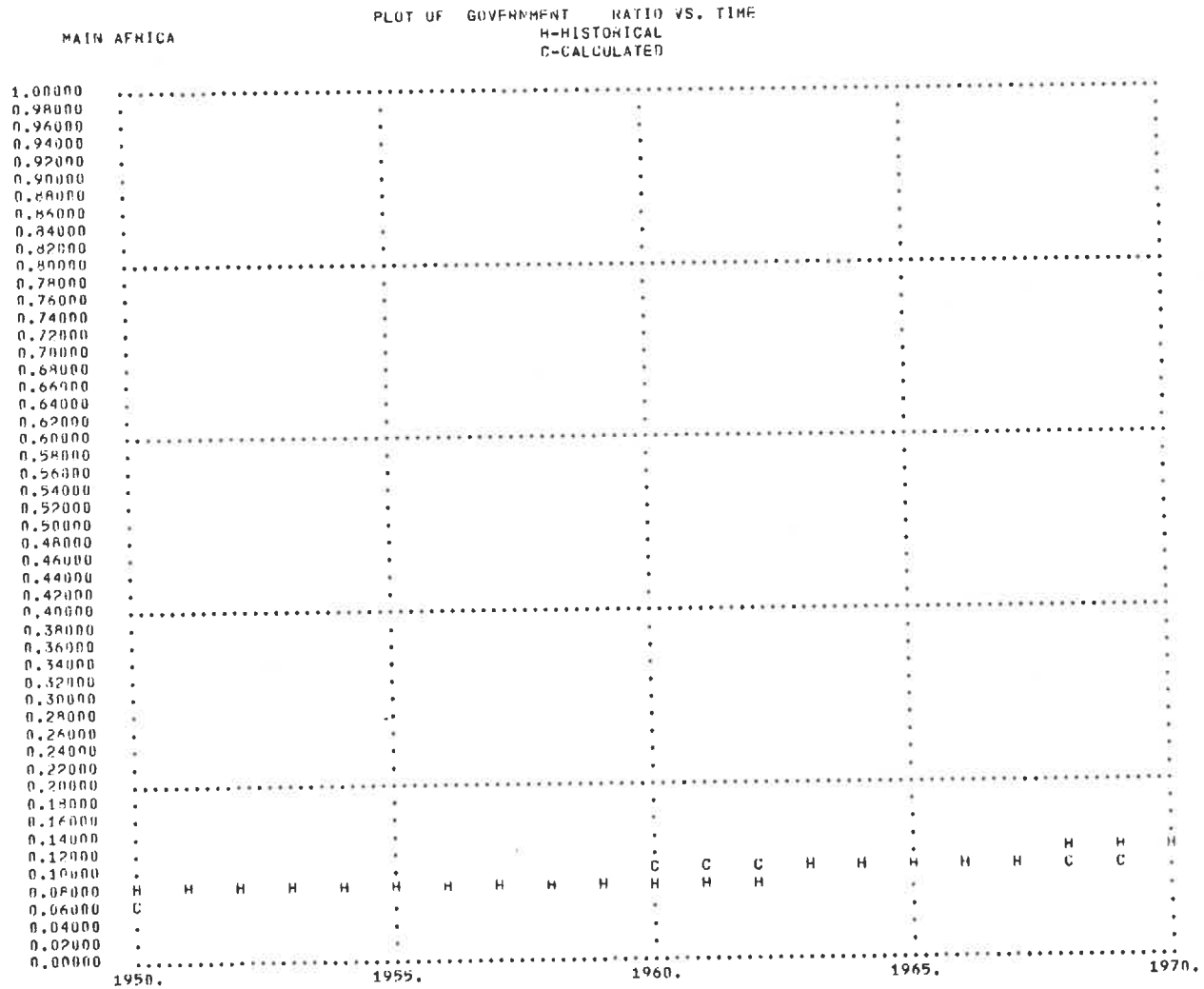
PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



MAIN AFRICA

PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
MAIN AFRICA
1.00000
0.98000
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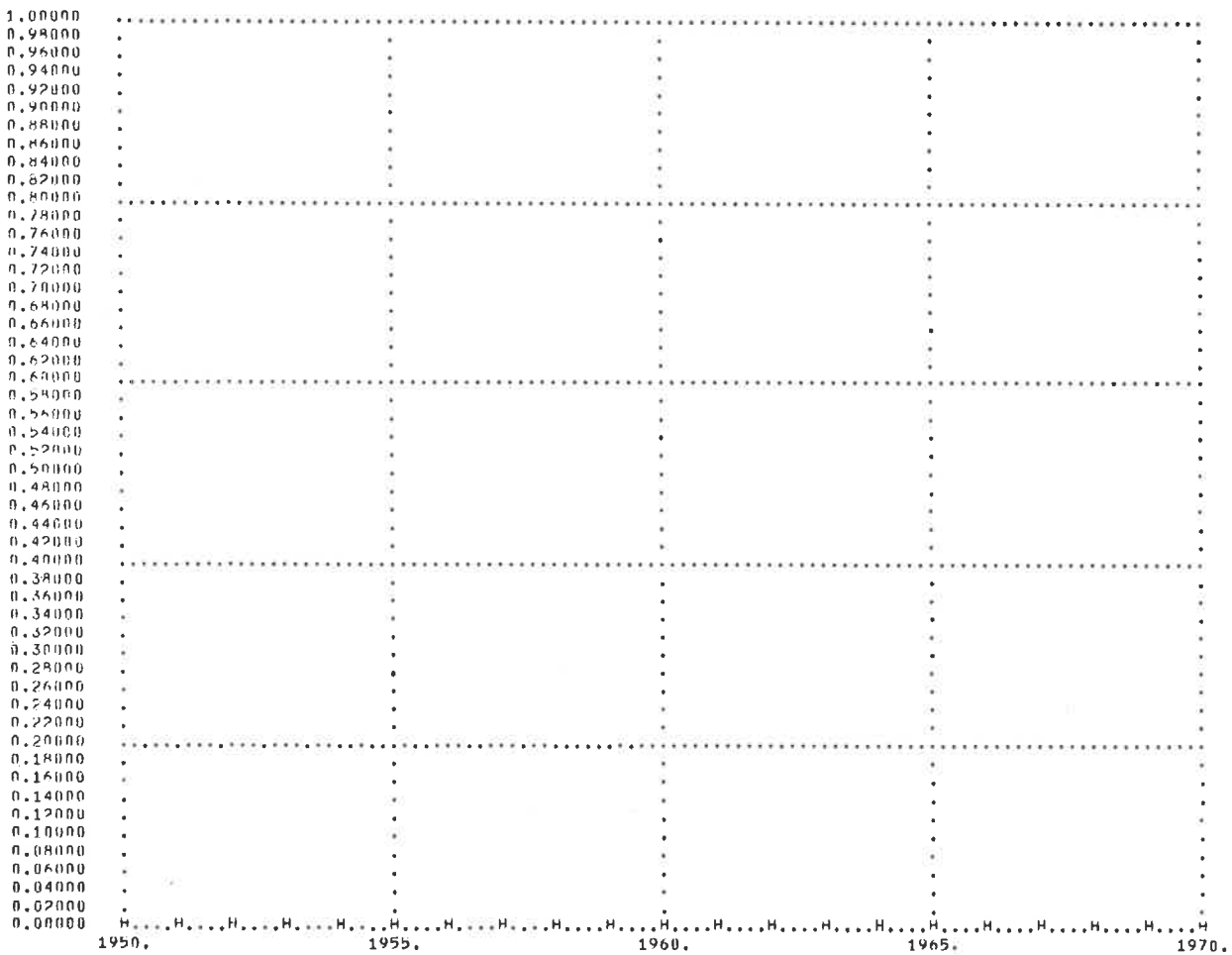
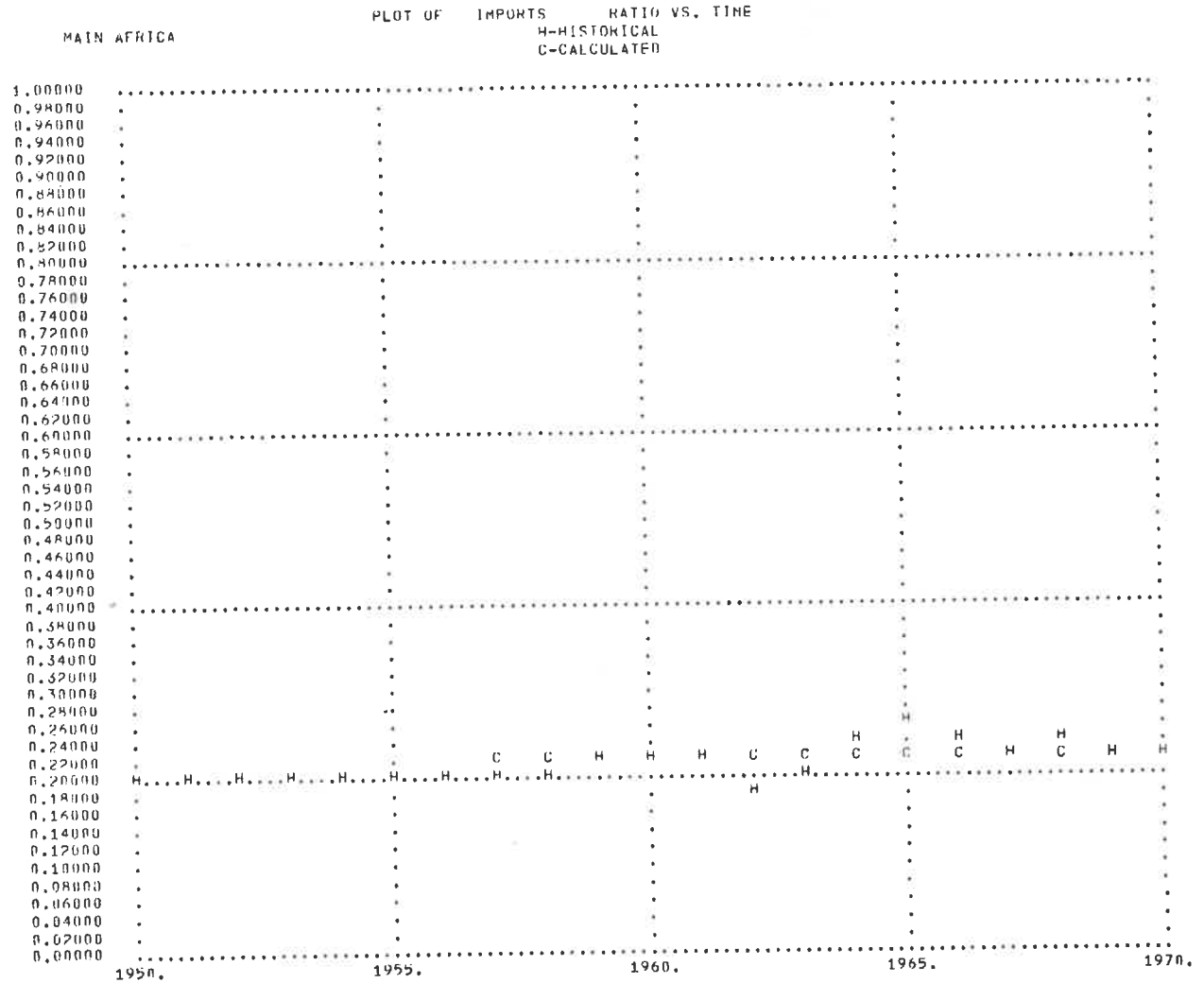
1950.
1955.
1960.
1965.
1970.

MAIN AFRICA

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF IMPORTS RATIO VS. TIME
MAIN AFRICA
H-HISTORICAL
C-CALCULATED
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0.98000
0.96000
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1955.
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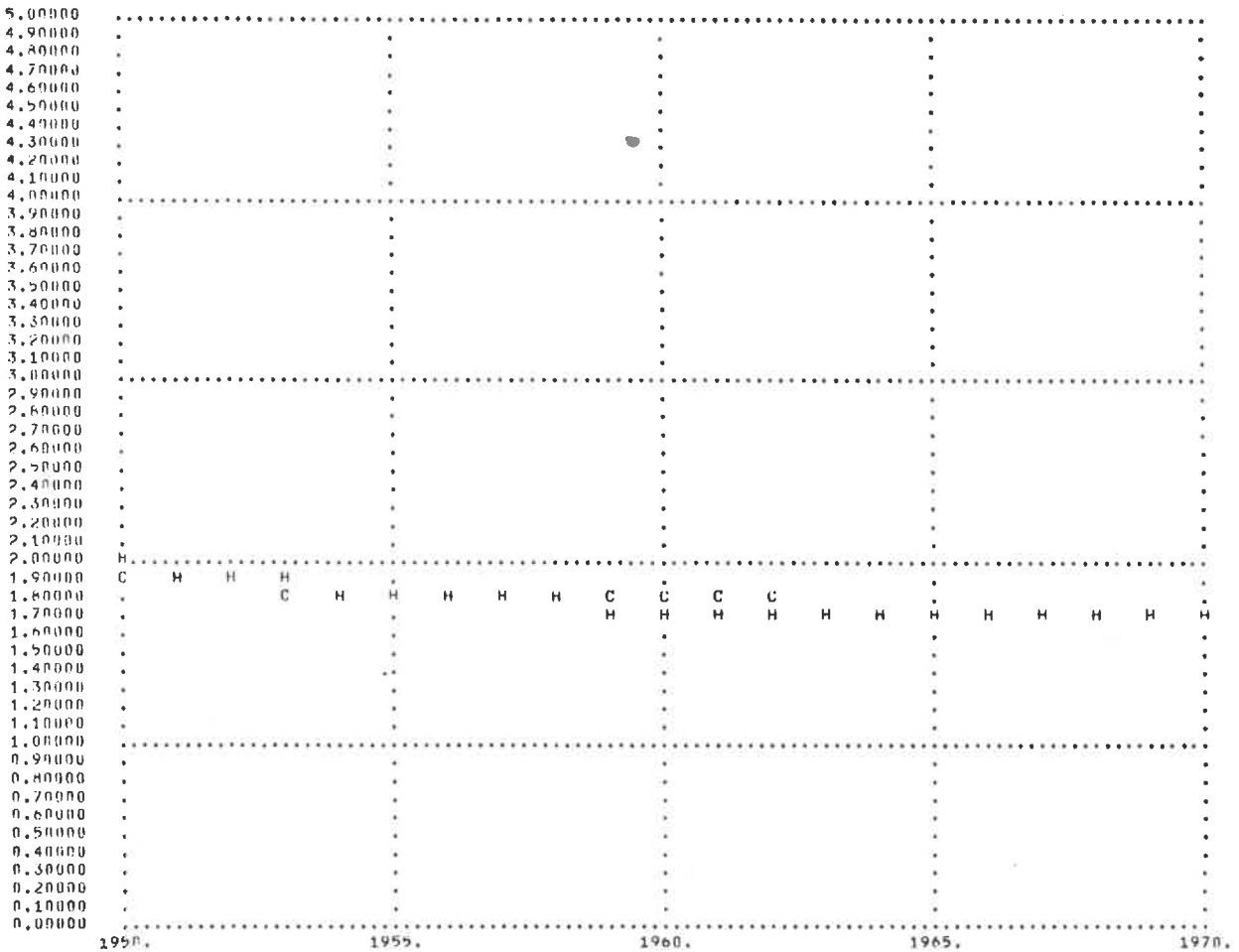
MAIN AFRICA

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



SOUTH EAST ASIA

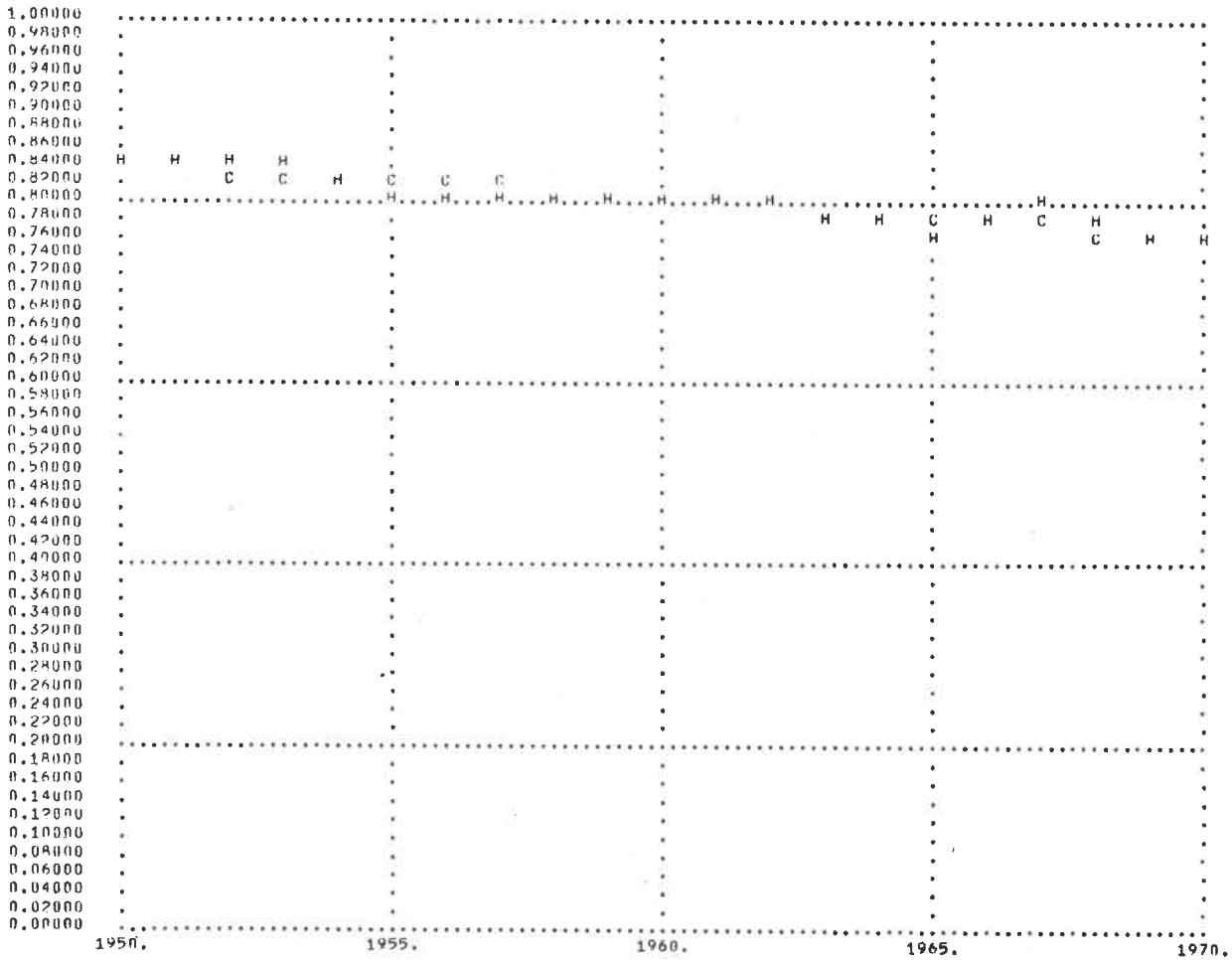
TABLE OF SECTOR-OUTPUT RATIOS

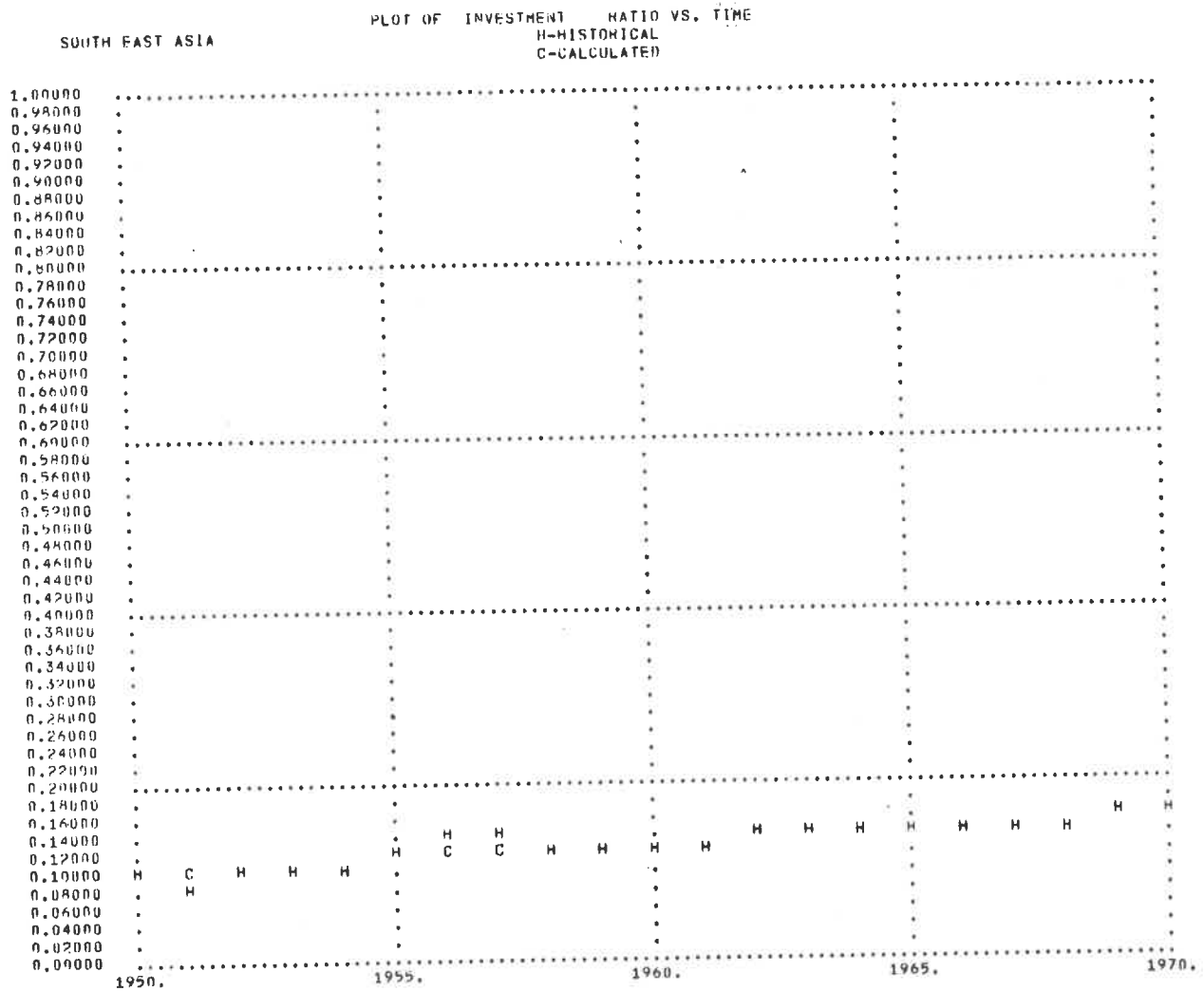
	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.6480	0.8449	0.1010	0.1036	0.0710	0.0688
1951.	0.8520	0.8411	0.0980	0.1066	0.0710	0.0707
1952.	0.8460	0.8374	0.1030	0.1096	0.0730	0.0726
1953.	0.8500	0.8336	0.0990	0.1126	0.0730	0.0745
1954.	0.8330	0.8299	0.1100	0.1156	0.0780	0.0764
1955.	0.8180	0.8261	0.1230	0.1186	0.0780	0.0783
1956.	0.8020	0.8224	0.1400	0.1216	0.0770	0.0802
1957.	0.7990	0.8186	0.1410	0.1246	0.0770	0.0821
1958.	0.8050	0.8149	0.1380	0.1275	0.0850	0.0841
1959.	0.8030	0.8111	0.1370	0.1305	0.0840	0.0860
1960.	0.8140	0.8074	0.1280	0.1335	0.0890	0.0879
1961.	0.8010	0.8036	0.1380	0.1365	0.0920	0.0898
1962.	0.8080	0.7999	0.1390	0.1395	0.0910	0.0917
1963.	0.7880	0.7961	0.1450	0.1425	0.0970	0.0936
1964.	0.7970	0.7924	0.1420	0.1455	0.0970	0.0955
1965.	0.7780	0.7886	0.1500	0.1485	0.1010	0.0974
1966.	0.7900	0.7849	0.1480	0.1515	0.1000	0.0993
1967.	0.8020	0.7811	0.1470	0.1544	0.0980	0.1012
1968.	0.7840	0.7774	0.1570	0.1574	0.1040	0.1031
1969.	0.7700	0.7736	0.1610	0.1604	0.1050	0.1050
1970.	0.7670	0.7699	0.1590	0.1634	0.1040	0.1069

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0046	0.0046	0.1040	0.1025	1.2107	1.1799
1951.	0.0054	0.0045	0.1220	0.1034	1.2351	1.2091
1952.	0.0042	0.0045	0.1020	0.1044	1.2566	1.2382
1953.	0.0039	0.0045	0.0950	0.1054	1.2264	1.2673
1954.	0.0044	0.0044	0.1030	0.1063	1.2535	1.2965
1955.	0.0043	0.0044	0.1040	0.1073	1.2908	1.3256
1956.	0.0049	0.0043	0.1140	0.1082	1.3044	1.3547
1957.	0.0052	0.0043	0.1190	0.1092	1.3889	1.3839
1958.	0.0043	0.0043	0.1120	0.1102	1.4343	1.4130
1959.	0.0042	0.0042	0.1090	0.1111	1.4760	1.4421
1960.	0.0037	0.0042	0.1050	0.1121	1.4815	1.4713
1961.	0.0038	0.0041	0.1060	0.1131	1.4991	1.5004
1962.	0.0036	0.0041	0.1110	0.1140	1.5439	1.5295
1963.	0.0037	0.0041	0.1040	0.1150	1.5568	1.5587
1964.	0.0035	0.0040	0.1060	0.1160	1.5635	1.5878
1965.	0.0036	0.0040	0.1040	0.1169	1.6608	1.6169
1966.	0.0040	0.0040	0.1250	0.1179	1.6992	1.6461
1967.	0.0041	0.0039	0.1330	0.1188	1.6767	1.6752
1968.	0.0040	0.0039	0.1290	0.1198	1.7176	1.7043
1969.	0.0041	0.0038	0.1220	0.1208	1.7001	1.7334
1970.	0.0045	0.0038	0.1250	0.1217	1.7205	1.7626

SOUTH EAST ASIA

PLOT OF CONSUMPTION RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
SOUTH EAST ASIA
1.00000
0.98000
0.96000
0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
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1955.
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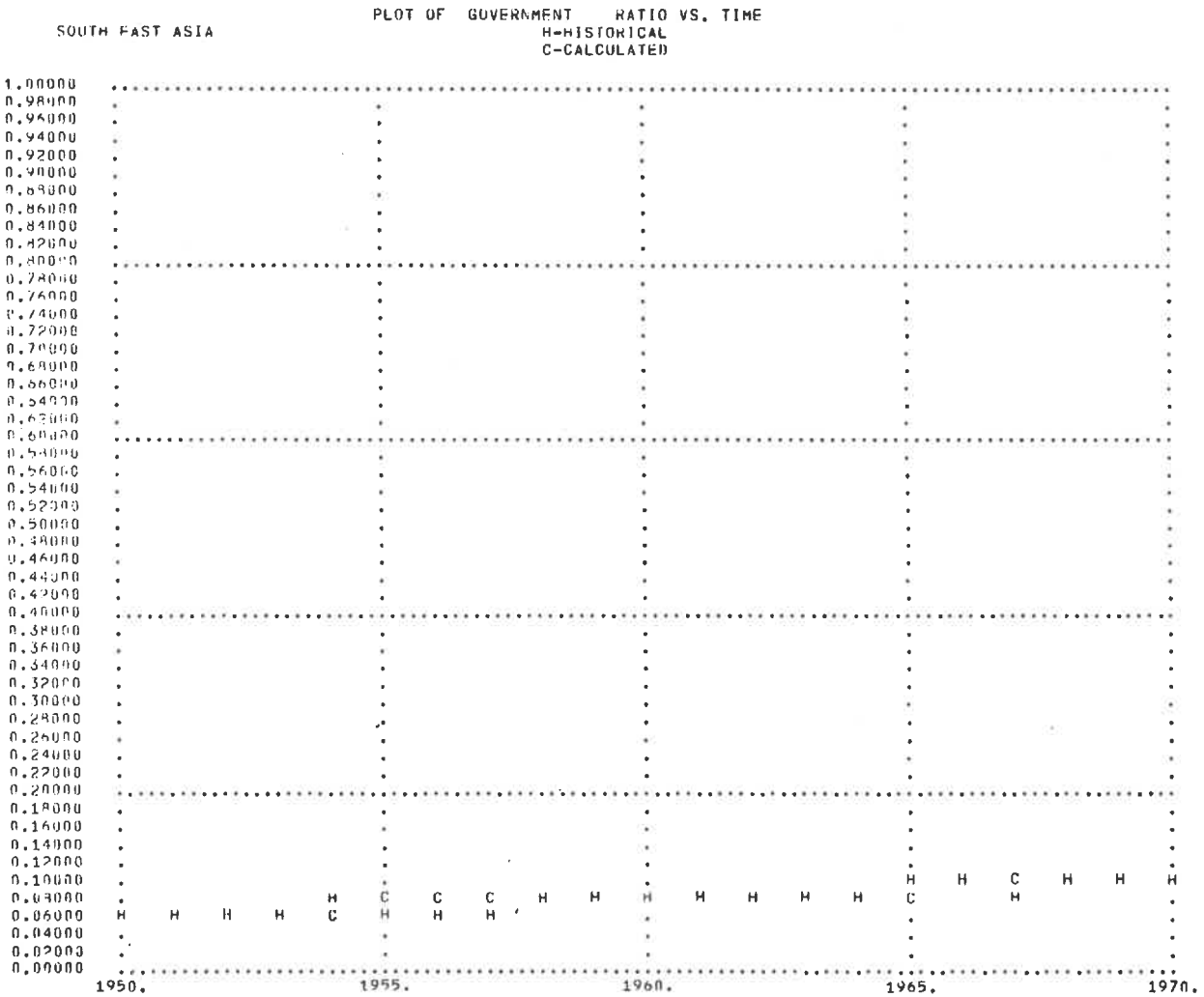
1970.


PLOT OF GOVERNMENT RATIO VS. TIME
SOUTH EAST ASIA
H-HISTORICAL
C-CALCULATED
1.00000
0.98000
0.96000
0.94000
0.92000
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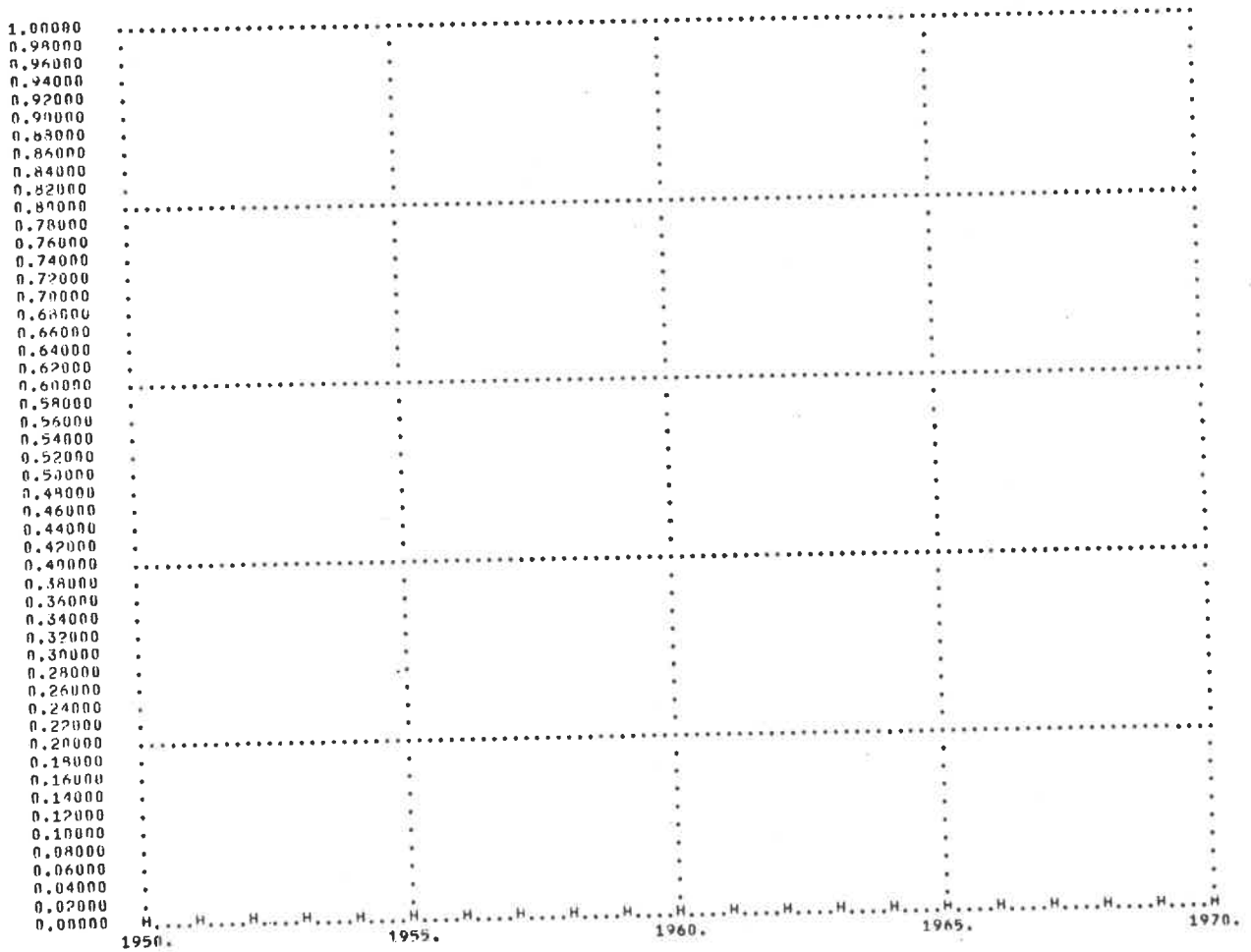
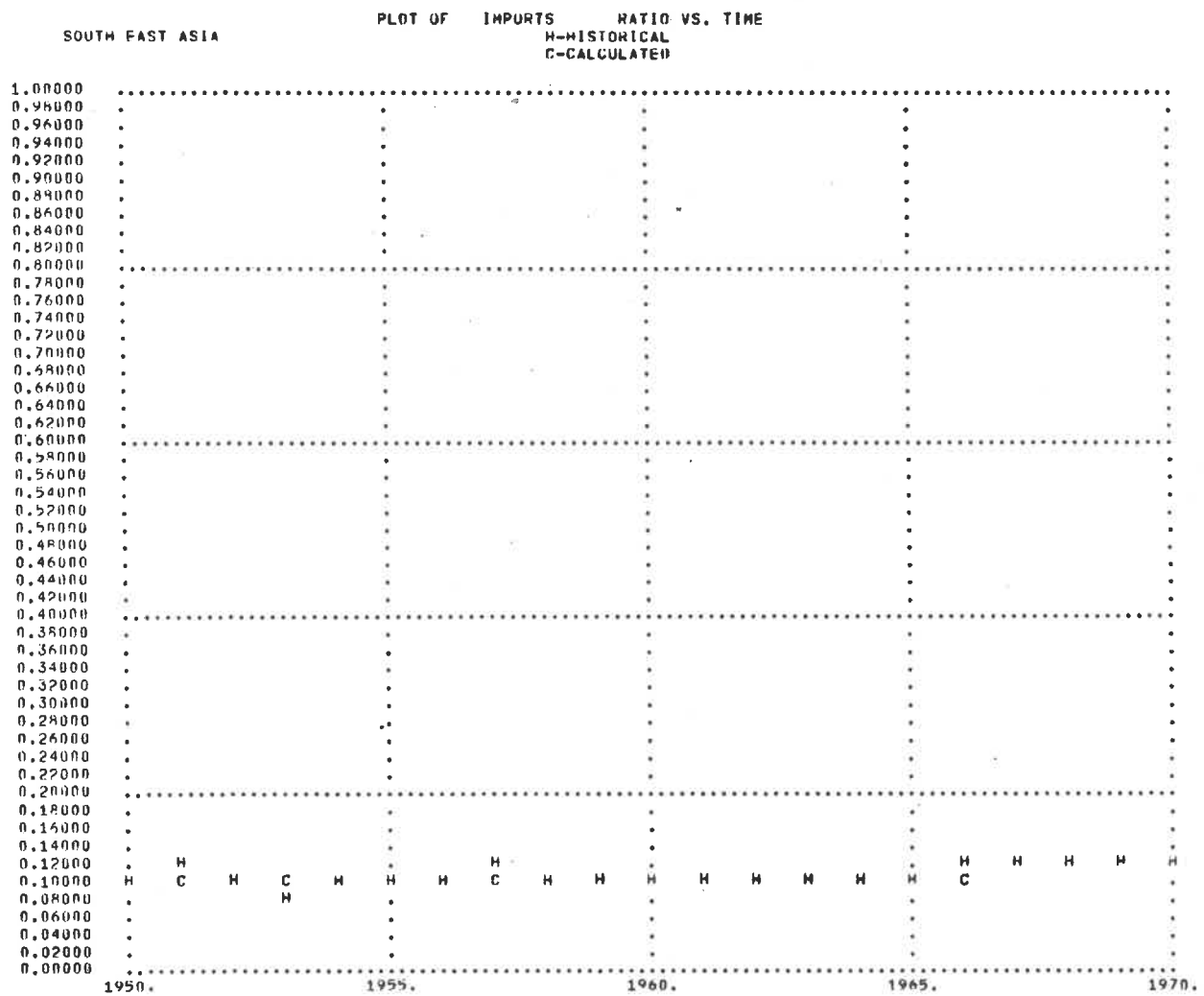
1970.

SOUTH EAST ASIA

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED




PLOT OF IMPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
SOUTH EAST ASIA
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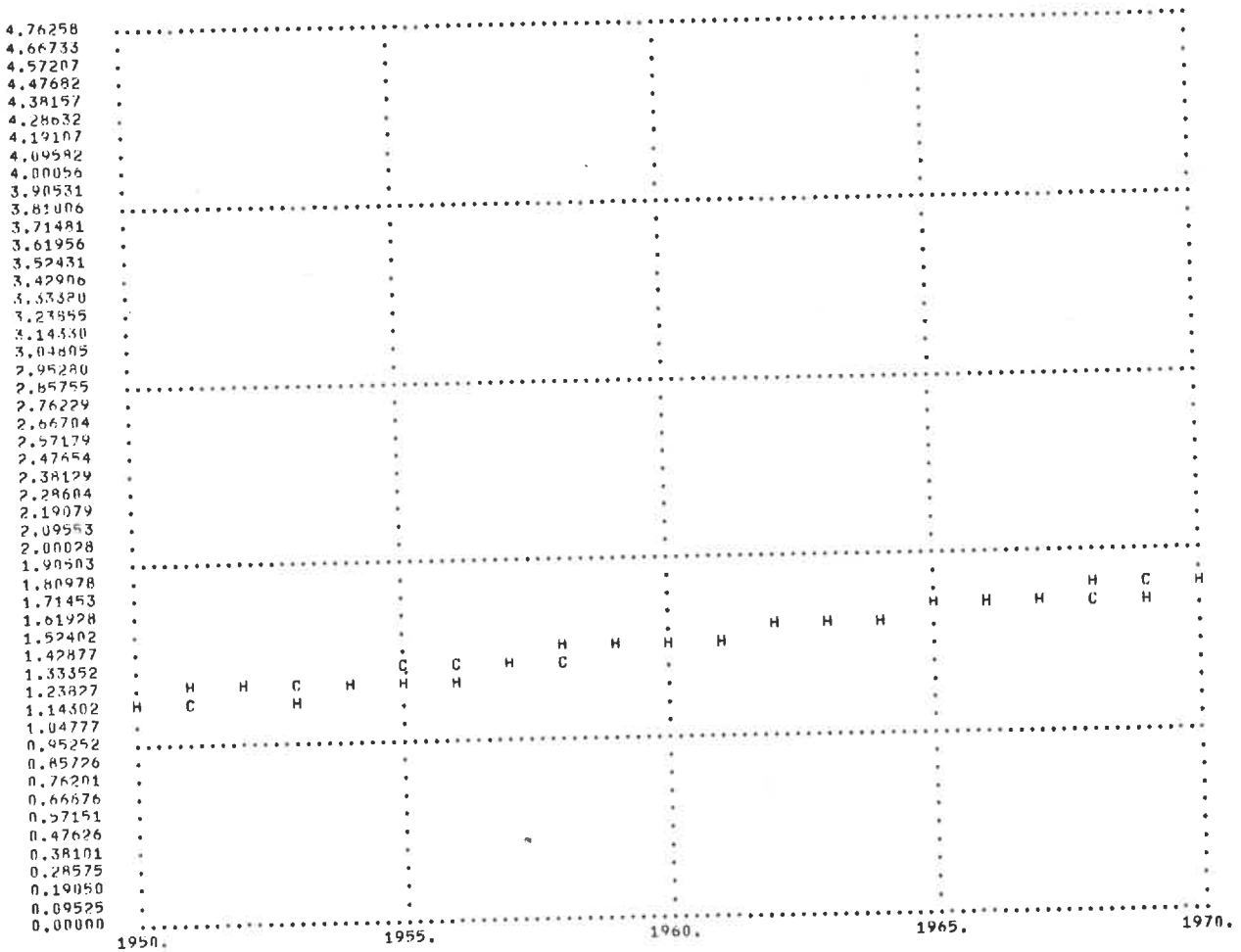
SOUTH EAST ASIA

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



CHINA

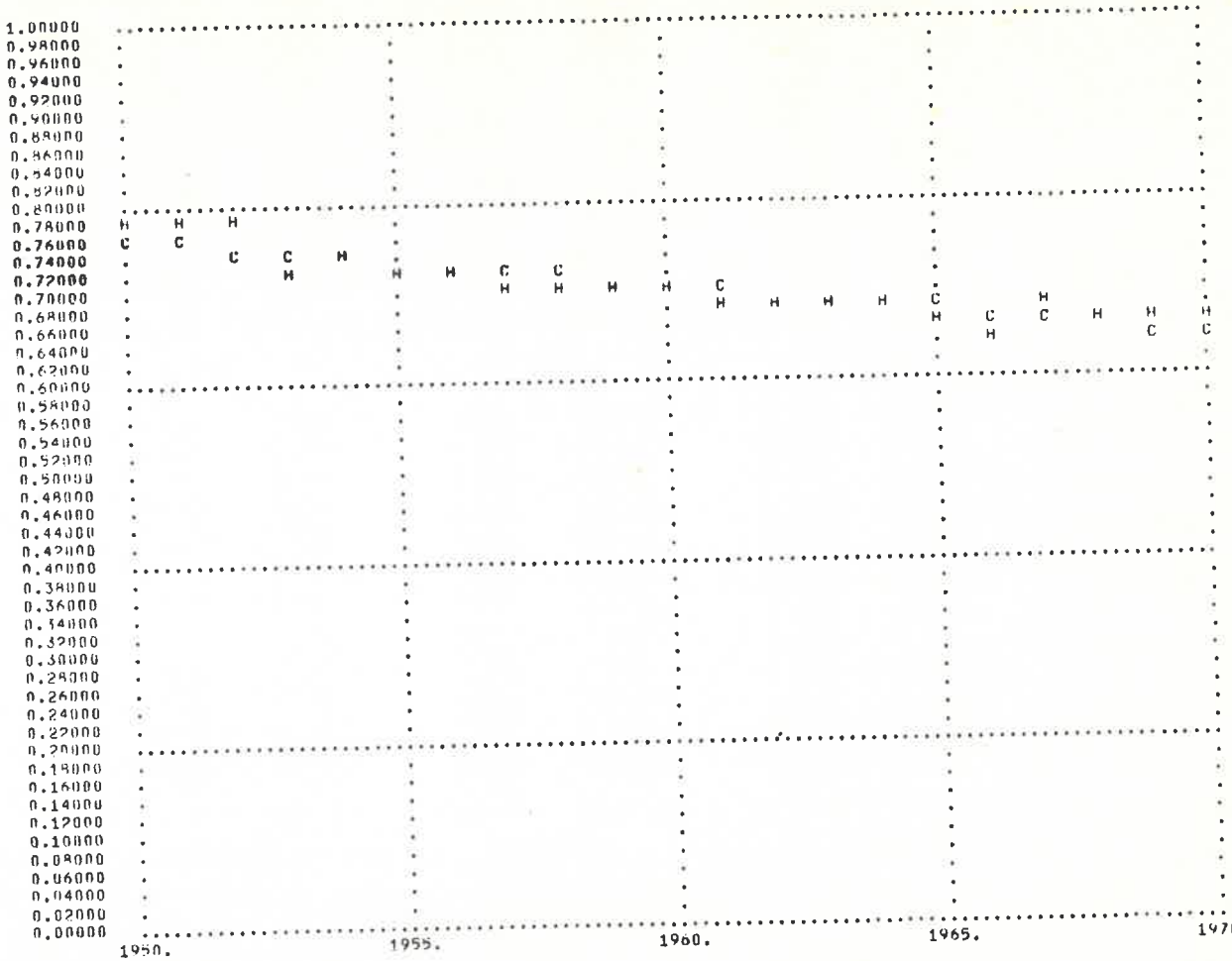
TABLE OF SECTOR-OUTPUT RATIOS

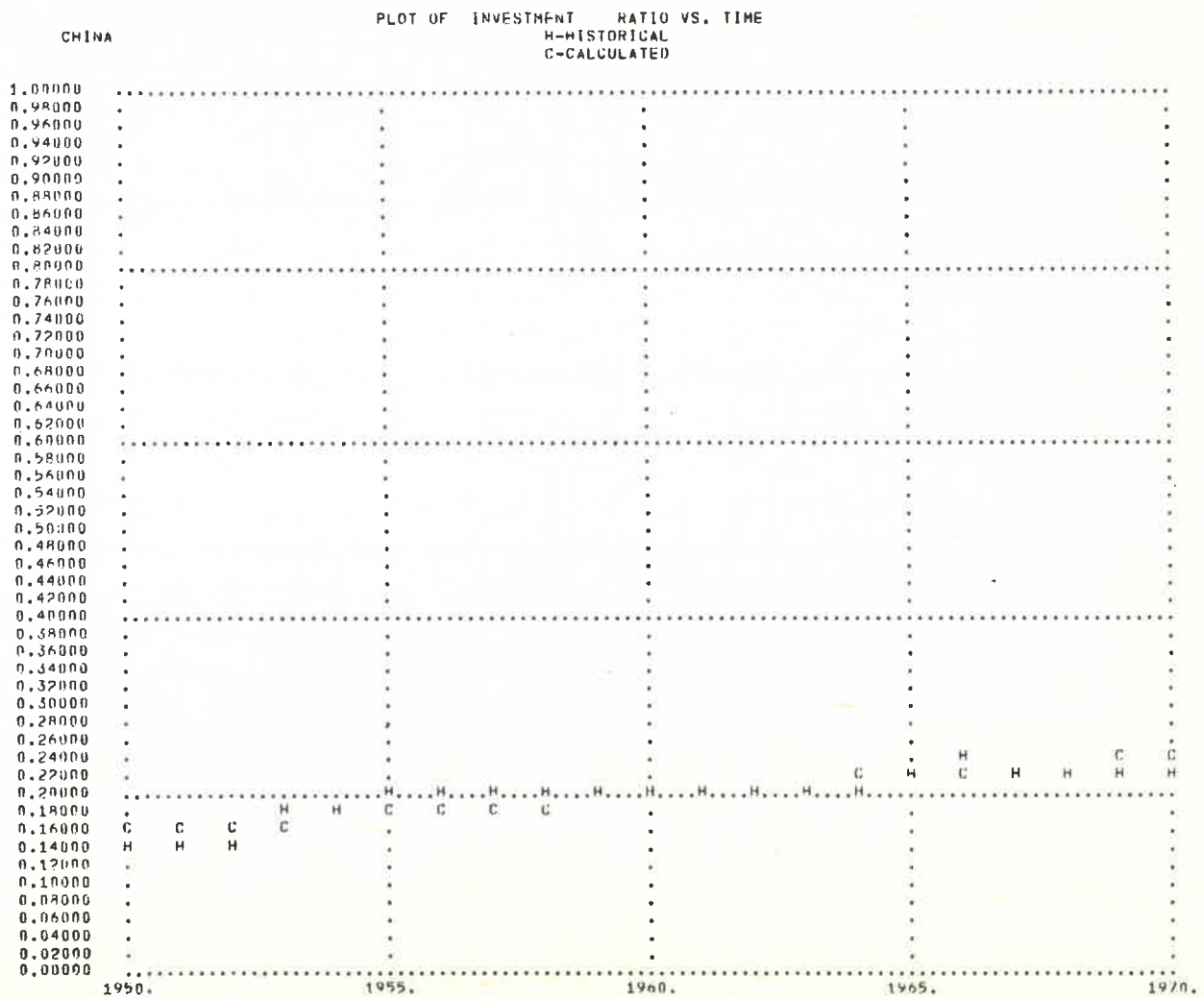
	CONSUMPTION		INVESTMENT		GOVERNMENT	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.7800	0.7653	0.1458	0.1637	0.0792	0.0761
1951.	0.7800	0.7595	0.1458	0.1678	0.0792	0.0771
1952.	0.7802	0.7537	0.1459	0.1718	0.0792	0.0781
1953.	0.7239	0.7480	0.1865	0.1759	0.0958	0.0791
1954.	0.7393	0.7422	0.1959	0.1800	0.0792	0.0802
1955.	0.7282	0.7364	0.1997	0.1840	0.0812	0.0812
1956.	0.7199	0.7306	0.2052	0.1881	0.0687	0.0822
1957.	0.7177	0.7248	0.2027	0.1922	0.0727	0.0832
1958.	0.7087	0.7191	0.2069	0.1962	0.0825	0.0843
1959.	0.7087	0.7133	0.2070	0.2003	0.0825	0.0853
1960.	0.7087	0.7075	0.2069	0.2044	0.0825	0.0863
1961.	0.6951	0.7017	0.2099	0.2084	0.0918	0.0873
1962.	0.6948	0.6960	0.2010	0.2125	0.0896	0.0884
1963.	0.6827	0.6902	0.2154	0.2166	0.0885	0.0894
1964.	0.6849	0.6844	0.2174	0.2206	0.0880	0.0904
1965.	0.6667	0.6786	0.2364	0.2247	0.0898	0.0914
1966.	0.6534	0.6728	0.2469	0.2288	0.0939	0.0925
1967.	0.6827	0.6671	0.2232	0.2328	0.0933	0.0935
1968.	0.6730	0.6613	0.2284	0.2369	0.0953	0.0945
1969.	0.6674	0.6555	0.2278	0.2410	0.0983	0.0955
1970.	0.6619	0.6497	0.2368	0.2450	0.1019	0.0966

	EXPORTS		IMPORTS		CAPITAL STOCK	
YEAR	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED	HISTORICAL	CALCULATED
1950.	0.0015	0.0021	0.0430	0.0486	1.0967	0.9679
1951.	0.0016	0.0021	0.0430	0.0485	1.0859	1.0614
1952.	0.0018	0.0021	0.0432	0.0483	1.0602	1.1548
1953.	0.0020	0.0021	0.0500	0.0482	1.2057	1.2482
1954.	0.0017	0.0021	0.0502	0.0480	1.2985	1.3416
1955.	0.0024	0.0021	0.0616	0.0479	1.3918	1.4350
1956.	0.0027	0.0021	0.0607	0.0478	1.3928	1.5284
1957.	0.0025	0.0021	0.0456	0.0476	1.5085	1.6218
1958.	0.0027	0.0020	0.0512	0.0475	1.5027	1.7152
1959.	0.0025	0.0020	0.0512	0.0473	1.7002	1.8086
1960.	0.0024	0.0020	0.0512	0.0472	1.8975	1.9020
1961.	0.0020	0.0020	0.0517	0.0470	2.3957	1.9954
1962.	0.0019	0.0020	0.0385	0.0469	2.5056	2.0888
1963.	0.0019	0.0020	0.0375	0.0467	2.4320	2.1822
1964.	0.0020	0.0020	0.0422	0.0466	2.3599	2.2757
1965.	0.0022	0.0020	0.0464	0.0465	2.2464	2.3691
1966.	0.0022	0.0020	0.0488	0.0463	2.2680	2.4625
1967.	0.0019	0.0020	0.0490	0.0462	2.5779	2.5559
1968.	0.0018	0.0020	0.0451	0.0460	2.6792	2.6493
1969.	0.0017	0.0020	0.0429	0.0459	2.6969	2.7427
1970.	0.0017	0.0020	0.0479	0.0457	2.6405	2.8361

CHINA

PLOT OF CONSUMPTION RATIO VS. TIME
H=HISTORICAL
C=CALCULATED




PLOT OF INVESTMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
CHINA
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0.98000
0.96000
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0.86000
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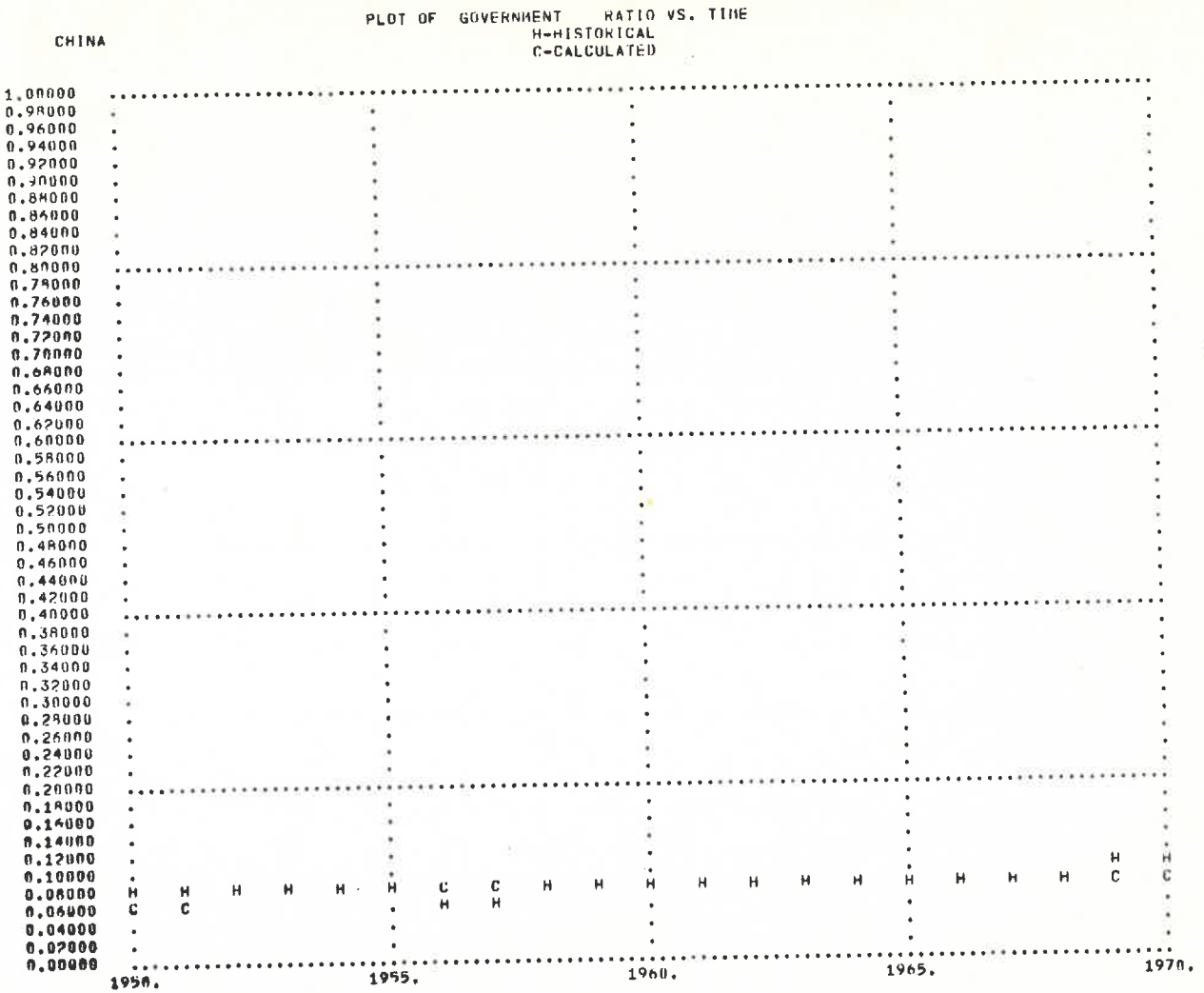
1970.


PLOT OF GOVERNMENT RATIO VS. TIME
H-HISTORICAL
C-CALCULATED
CHINA
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0.98000
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0.94000
0.92000
0.90000
0.88000
0.86000
0.84000
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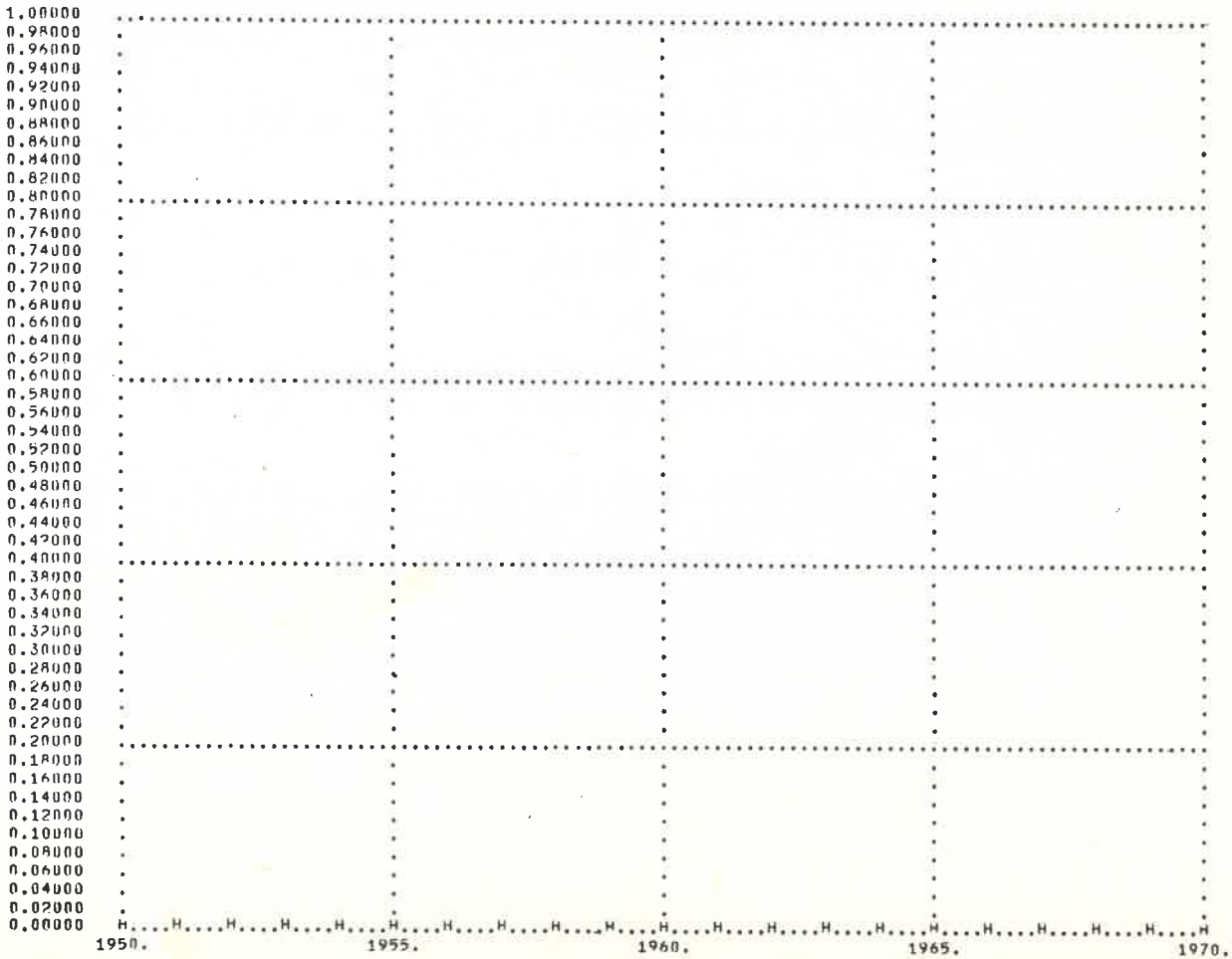
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
1950.
1955.
1960.
1965.
1970.

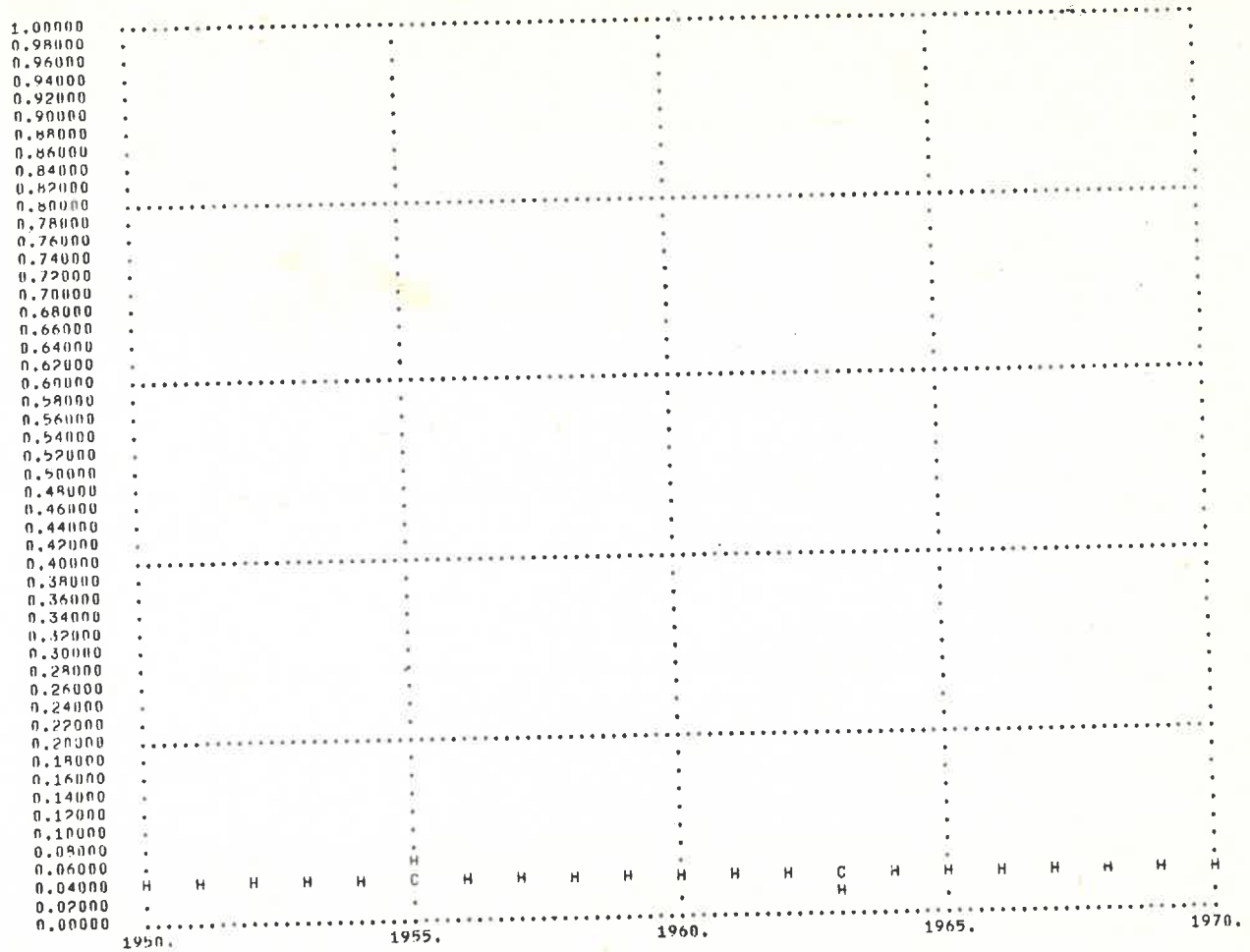
CHINA

PLOT OF EXPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



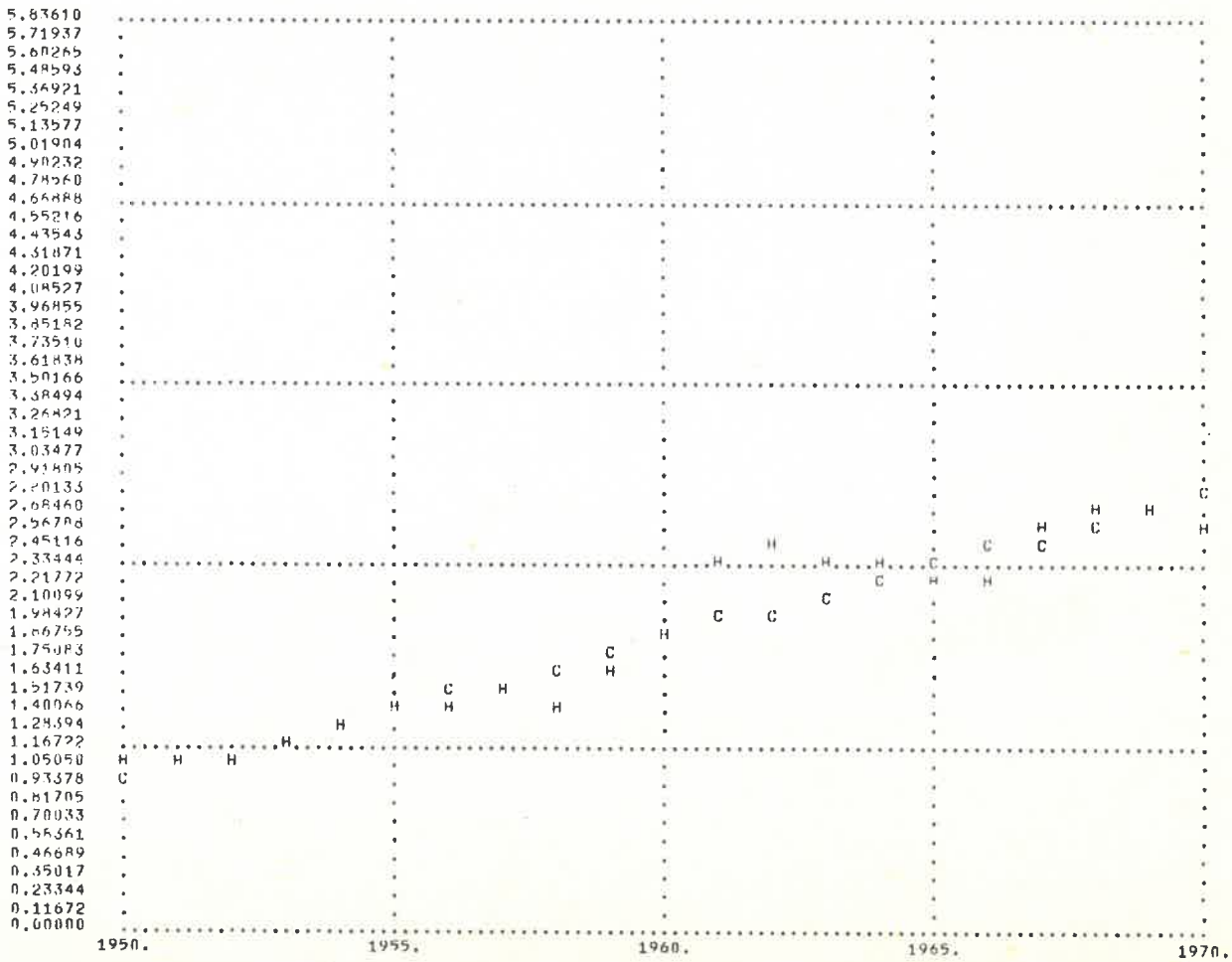
CHINA

PLOT OF IMPORTS RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



CHINA

PLOT OF CAPITAL STOCK RATIO VS. TIME
H-HISTORICAL
C-CALCULATED



4. Computer Program Listings

```
004959 REMOVE,PLOOUT,FORTRAN
005001 COMPIL,PLOOUT,FORTRAN
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```
      SUBROUTINE PLOOUT(H,KR,ITIT)                                      7PLOOUT   2
      COMMON IYR,IT,GRP,GRPT,POP,POPT                                   7PLOOUT  17
      DIMENSION IT(10),GRP(10,9),Y(10),POP(10,5),P(10)                  7PLOOUT  18
      EQUIVALENCE (GRP,Y),(POP,P),(GRP(71),YEX),(GRP(81),YIM)           7PLOOUT  19
        COMMON PMOFY,TRADE                                              7PLOOUT  20
      DIMENSION YEX(10),YIM(10),TRADE(10,10)                            7PLOOUT  21
      DIMENSION PMOFY(10,6)                                             7PLOOUT  22
      DIMENSION CEXP(21),HEXP(21),H(21,8),YEAR(21)                      7PLOOUT  23
      DIMENSION ITIT(6,7)                                               7PLOOUT  24
      DO 80 I=1,21                                                      7PLOOUT  25
80    YEAR(I)=FLOATF(I+1949)                                            7PLOOUT  29
      DO 10 I=1,6                                                       7PLOOUT  42
      PRINT 100,(ITIT(I,J),J=1,7)                                       7PLOOUT  46
      CALL QKIY(0)                                                      7PLOOUT  76
      AMA=0.                                                            7PLOOUT  79
      GO TO(11,11,11,14,14,12),I                                        7PLOOUT  82
11    KKK=I+2                                                           7PLOOUT  92
      GO TO 13                                                          7PLOOUT  96
12    KKK=1                                                             7PLOOUT  98
      GO TO 13                                                          7PLOOUT 101
14    KKK=I+4                                                           7PLOOUT 103
13    CONTINUE                                                          7PLOOUT 107
      DO 30 J=1,21                                                      7PLOOUT 109
      IYR=J+1949                                                        7PLOOUT 113
      CALL CGXM(1970)                                                   7PLOOUT 117
      CEXP(J)=GRP(KR,KKK)                                               7PLOOUT 120
      CALL QKIY(1970)                                                   7PLOOUT 134
      HEXP(J)=H(J,I)                                                    7PLOOUT 137
30    AMA=AMAX1F(AMA,CEXP(J),HEXP(J))                                   7PLOOUT 152
      AMAM=AMA                                                          7PLOOUT 171
      AMIN=0.                                                           7PLOOUT 174
      DO 20 IYR=1,8                                                     7PLOOUT 177
      CALL PLOTQ(YEAR,CEXP,21,IAUU,1,2,AMIN,AMAM,1950.,1970.)           7PLOOUT 181
20    CALL PLOTQ(YEAR,HEXP,21,IRUU,2,2,AMIN,AMAM,1950.,1970.)           7PLOOUT 193
10    CONTINUE                                                          7PLOOUT 212
      RETURN                                                            7PLOOUT 220
100   FORMAT(1H1,10X,$H - HISTORICAL , C - COMPUTED OR MODEL$,          7PLOOUT 227
     110X,7(A4))                                                        7PLOOUT 228
      DEFINE IAUU(*)                                                    7PLOOUT 249
       CON A,1,C                                                        6PLOOUT 251
      DEFINE IRUU(*)                                                    7PLOOUT 252
       CON A,1,H                                                        6PLOOUT 254
      END                                                               7PLOOUT 255
*                                                                       1PLOOUT 304
*PROGRAM END.   0 FORTRAN ERRORS                                        1PLOOUT 305
      END                                                               1PLOOUT 306

                    0 ASSEMBLY ERRORS

               000466 PROGRAM OCTAL SIZE
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000315   30202020   30202020

         *00000000  *00000000
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000000 EQL TABLE OCTAL SIZE

005044 REMOVE,QKIY,FORTRAN
005045 COMPIL,QKIY,FORTRAN

```
      SUBROUTINE QKIY(ISTAT)                                                  7QKIY    2
      DIMENSION IT(10),GRP(10,9),Y(10),POP(10,5),P(10)                        7QKIY   17
      COMMON IYR,IT,GRP,GRPT,POP,POPT                                         7QKIY   18
      EQUIVALENCE (GRP,Y),(POP,P),(GRP(71),YEX),(GRP(81),YIM)                 7QKIY   19
      DIMENSION YEX(10),YIM(10),TRADE(10,10)                                  7QKIY   20
        COMMON PMOFY,TRADE                                                    7QKIY   21
      DIMENSION PMOFY(10,6)                                                   7QKIY   22
      DIMENSION AQ(10,2),AI(10,2),AICK(10)                                    7QKIY   23
      DIMENSION DEL(10)                                                       7QKIY   24
C           INCREMENTS QKIY                                                   7QKIY   25
C     ISTAT         CONTROLS FUNCTION PERFORMED                             7QKIY   26
C     <0            READ IN AND PRINT OUT PARAMETERS                        7QKIY   27
C     =0            RE-INITIALIZE TO 1950                                   7QKIY   28
C     >0            ADVANCE TO NEXT YEAR                                    7QKIY   29
C        NOT USED         IF IYR>ISTAT THEN DON'T INCREMENT                  7QKIY   30
C     GRP(I,1)=Y(I)     GROSS REGIONAL PRODUCT                              7QKIY   31
C        (I,2)          GROWTH RATE                                         7QKIY   32
C        (I,3)          C(T)                                                7QKIY   33
C        (I,4)          I(T)                                                7QKIY   34
C        (I,5)          G(T)                                                7QKIY   35
C        (I,6)          K(T)                                                7QKIY   36
C        (I,7)          Q(T)                                                7QKIY   37
C        (I,8)=YEX(I)   EXPORTS                                             7QKIY   38
C        (I,9)=YIM(I)   IMPORTS                                             7QKIY   39
      IF(ISTAT)1,2,3                                                          7QKIY   40
1     CONTINUE                                                                7QKIY   48
      PRINT 102                                                               7QKIY   50
      DO 10 I=1,10                                                            7QKIY   55
      READ 100,(AQ(I,J),J=1,2),IT                                             7QKIY   59
10    PRINT 101,(AQ(I,J),J=1,2),IT                                            7QKIY   97
      PRINT 103                                                               7QKIY  142
      DO 11 I=1,10                                                            7QKIY  147
      READ 100,(AI(I,J),J=1,2),IT                                             7QKIY  151
11    PRINT101,(AI(I,J),J=1,2),IT                                             7QKIY  189
      PRINT 104                                                               7QKIY  234
      DO 12 I=1,10                                                            7QKIY  239
      READ 105,AICK(I),IT                                                     7QKIY  243
12    PRINT 106,AICK(I),IT                                                    7QKIY  266
      PRINT 107                                                               7QKIY  296
      DO 15 I=1,10                                                            7QKIY  301
      READ 105,DEL(I),IT                                                      7QKIY  305
      PRINT 106,DEL(I),IT                                                     7QKIY  328
15    DEL(I)=1.-1./DEL(I)                                                     7QKIY  351
4     RETURN                                                                  7QKIY  367
2     GRPT=0.                                                                 7QKIY  374
      DO 13 I=1,10                                                            7QKIY  377
      GRP(I,2)=0.                                                             7QKIY  381
      GRP(I,6)=AICK(I)                                                        7QKIY  385
      GRP(I,7)=AQ(I,1)                                                        7QKIY  388
      Y(I)=AICK(I)/GRP(I,7)                                                   7QKIY  391
      GRPT=GRPT+Y(I)                                                          7QKIY  395
```

```
                    GI=AI(I,1)                                                          7QKIY  399
                    PMOFY(I,2)=GI                                                       7QKIY  402
                13  GRP(I,4)=GI*Y(I)                                                   7QKIY  405
                    GO TO 4                                                             7QKIY  417
                3   GRPT=0.                                                             7QKIY  419
                    IF(IYR-ISTAT)40,45,45                                               7QKIY  422
                40  AIYR=FLOATF(IYR-1949)                                               7QKIY  431
                45  DO 14 I=1,10                                                       7QKIY  436
                    YL=Y(I)                                                             7QKIY  440
                    GRP(I,6)=DEL(I)*GRP(I,6)+GRP(I,4)                                   7QKIY  444
                    GRP(I,7)=AQ(I,1)+AQ(I,2)*AIYR                                       7QKIY  449
                    Y(I)=GRP(I,6)/GRP(I,7)                                              7QKIY  454
                    GRP(I,2)=(Y(I)-YL)/YL                                               7QKIY  458
                    GRPT=GRPT+Y(I)                                                      7QKIY  463
                    GI=AI(I,1)+AI(I,2)*AIYR                                             7QKIY  467
                    PMOFY(I,2)=GI                                                       7QKIY  472
                14  GRP(I,4)=GI*Y(I)                                                   7QKIY  475
                    GO TO 4                                                             7QKIY  487
                100 FORMAT(2F10.0,20X,10(A4))                                           7QKIY  489
                101 FORMAT(5X,2F10.5, 5X,10(A4))                                        7QKIY  497
                102 FORMAT(//20X,$CAPITAL OUTPUT RATIO$)                                7QKIY  505
                103 FORMAT(//20X,$INVESTMENT$)                                          7QKIY  516
                104 FORMAT(//20X,$INITAL CONDITION FOR CAPITAL (1950 HISTORICAL)$)      7QKIY  525
                105 FORMAT(F10.0,30X,10(A4))                                            7QKIY  543
                106 FORMAT(5X,F10.3,15X,10(A4))                                         7QKIY  550
                107 FORMAT(//20X,$LIFE OF CAPITAL$)                                     7QKIY  558
                    END                                                                 7QKIY  568

                *                                                                       1QKIY  604

                *PROGRAM END,    0 FORTRAN ERRORS                                       1QKIY  605
                      END                                                               1QKIY  606
     *00000000  *00000000

                          0 ASSEMBLY ERRORS

                     001070 PROGRAM OCTAL SIZE

                     000000 EQL TABLE OCTAL SIZE

005156 REMOVE,CGXM,FORTRAN
005157 COMPIL,CGXM,FORTRAN

                    SUBROUTINE CGXM(ISTAT)                                              7CGXM    2
                    DIMENSION IT(10),GRP(10,9),Y(10),POP(10,5),P(10)                    7CGXM   17
                    COMMON IYR,IT,GRP,GRPT,POP,POPT                                     7CGXM   18
                    EQUIVALENCE (GRP,Y),(POP,P),(GRP(71),YEX),(GRP(81),YIM)             7CGXM   19
                    DIMENSION YEX(10),YIM(10),TRADE(10,10)                              7CGXM   20
                    DIMENSION AC(10,2),AG(10,2),AX(10,2)                                7CGXM   21
                    DIMENSION PMOFY(10,6)                                               7CGXM   22
                      COMMON PMOFY,TRADE                                                7CGXM   23
                    IF(ISTAT)1,2,3                                                      7CGXM   24
                1   PRINT 102                                                           7CGXM   32
                    DO 10 I=1,10                                                        7CGXM   37
                    READ 100,(AC(I,J),J=1,2),IT                                         7CGXM   41
                10  PRINT 101,(AC(I,J),J=1,2),IT                                       7CGXM   79
                    PRINT 103                                                           7CGXM  124
```

```
      DO 20 I=1,10                                                      7CGXM  129
      READ 100,(AG(I,J),J=1,2),IT                                       7CGXM  133
20    PRINT 101,(AG(I,J),J=1,2),IT                                      7CGXM  171
      PRINT 104                                                         7CGXM  216
      DO 30 I=1,10                                                      7CGXM  221
      READ 100,(AX(I,J),J=1,2),IT                                       7CGXM  225
30    PRINT 101,(AX(I,J),J=1,2),IT                                      7CGXM  263
2     RETURN                                                            7CGXM  308
3     IF(IYR-ISTAT)45,45,46                                             7CGXM  315
45    AIYR=FLOATF(IYR-1950)                                             7CGXM  324
46    YIMT=0.                                                           7CGXM  329
      YEXT=0.                                                           7CGXM  332
      DO 40 I=1,10                                                      7CGXM  335
      GC=AC(I,1)+AC(I,2)*AIYR                                           7CGXM  339
      GG=AG(I,1)+AG(I,2)*AIYR                                           7CGXM  345
      GX=AX(I,1)+AX(I,2)*AIYR                                           7CGXM  350
      PMOFY(I,1)=GC                                                     7CGXM  355
      PMOFY(I,3)=GG                                                     7CGXM  358
      PMOFY(I,4)=GX                                                     7CGXM  361
      GRP(I,3)=GC*Y(I)                                                  7CGXM  364
      GRP(I,5)=GG*Y(I)                                                  7CGXM  368
      YEX(I)=GX*GRPT                                                    7CGXM  372
C     IMPORTS ARE THE RESIDUE                                           7CGXM  376
      YIM(I)=GRP(I,3)+GRP(I,4)+GRP(I,5)+YEX(I)-Y(I)                     7CGXM  377
      YIMT=YIMT+YIM(I)                                                  7CGXM  384
40    YEXT=YEXT+YEX(I)                                                  7CGXM  388
C     BALANCE IMPORTS AND EXPORTS TOTAL WORLD  CHANGE IMPORTS           7CGXM  400
      A1=(YEXT-YIMT)*.5                                                 7CGXM  401
      A2=1.+A1/YIMT                                                     7CGXM  406
      A1=A1*.1                                                          7CGXM  411
      YIMT=0.                                                           7CGXM  415
      DO 15 I=1,10                                                      7CGXM  418
      YIM(I)=YIM(I)*A2+A1                                               7CGXM  422
15    YIMT=YIMT+YIM(I)                                                  7CGXM  428
C     BALANCE Y-I-E+M=C+G    REGIONAL                                   7CGXM  440
      DO 25 I=1,10                                                      7CGXM  441
      ECG=GRP(I,3)+GRP(I,5)                                             7CGXM  445
      EYIEM=Y(I)-GRP(I,4)-YEX(I)+YIM(I)                                 7CGXM  450
      ECG=1.+(EYIEM-ECG)/ECG                                            7CGXM  456
      GRP(I,5)=GRP(I,5)*ECG                                             7CGXM  462
25    GRP(I,3)=GRP(I,3)*ECG                                             7CGXM  466
      GO TO 2                                                           7CGXM  478
100   FORMAT(2F10.0,20X,10(A4))                                         7CGXM  480
101   FORMAT(5X,2F10.6, 5X,10(A4))                                      7CGXM  488
102   FORMAT(//20X,$CONSUMPTION$)                                       7CGXM  496
103   FORMAT(//20X,$GOVERNMENT$)                                        7CGXM  505
104   FORMAT(//20X,$EXPORTS$)                                           7CGXM  514
      END                                                               7CGXM  522

*                                                                       1CGXM  566

*PROGRAM END.   0 FORTRAN ERRORS                                        1CGXM  567
      END                                                               1CGXM  568

*00000000  *00000000          0 ASSEMBLY ERRORS
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001044 PROGRAM OCTAL SIZE

000000 EQL TABLE OCTAL SIZE

```
005300 REMOVE,KWKKWK,PERMAN
005301 COMPIL,KWKKWK,PERMAN
      DIMENSION IT(10),GRP(10,9),Y(10),POP(10,5),P(10)                  7KWKKWK   2
      COMMON IYR,IT,GRP,GRPT,POP,POPT                                   7KWKKWK   3
      EQUIVALENCE (GRP,Y),(POP,P),(GRP(71),YEX),(GRP(81),YIM)           7KWKKWK   4
        COMMON PMOFY,TRADE                                              7KWKKWK   5
      DIMENSION YEX(10),YIM(10),TRADE(10,10)                            7KWKKWK   6
      DIMENSION PMOFY(10,6)                                             7KWKKWK   7
      DIMENSION TITLE(7),H(21,8),ER(3)                                  7KWKKWK   8
      INTEGER TITLE                                                     7KWKKWK   9
      DIMENSION TWHX(21),TWHM(21),TWCX(21),TWCM(21)                     7KWKKWK  10
      DIMENSION RATIO(3)                                                7KWKKWK  11
      DIMENSION ITIT(6,7)                                               7KWKKWK  12
      DO 7577 I=1,6                                                     7KWKKWK  13
7577  READ 101,(ITIT(I,J),J=1,7)                                        7KWKKWK  17
      DEL=34./35.                                                       7KWKKWK  49
      MAXIYR=2025                                                       7KWKKWK  53
      MAXIYR=1970                                                       7KWKKWK  56
      PRINT 111                                                         7KWKKWK  59
      CALL QKIY(-1)                                                     7KWKKWK  64
      PRINT 111                                                         7KWKKWK  70
      CALL CGXM(-1)                                                     7KWKKWK  75
      PRINT 111                                                         7KWKKWK  81
      CALL TMBAL(-1,ITER,AERROR)                                        7KWKKWK  86
      DO 1 I=1,21                                                       7KWKKWK  94
      TWHX(I)=0.                                                        7KWKKWK  98
      TWHM(I)=0.                                                        7KWKKWK 102
      TWCX(I)=0.                                                        7KWKKWK 105
1     TWCM(I)=0.                                                        7KWKKWK 108
      DO 50 I=1,10                                                      7KWKKWK 119
      READ 101,TITLE                                                    7KWKKWK 123
      DO 52 J=1,8                                                       7KWKKWK 141
52    READ 100,(H(K,J),K=1,21)                                          7KWKKWK 145
      READ 100,Z                                                        7KWKKWK 177
      PRINT 110                                                         7KWKKWK 184
      DO 53 J=1,3                                                       7KWKKWK 189
53    ER(J)=0.                                                          7KWKKWK 193
      CALL QKIY(0)                                                      7KWKKWK 204
      PRINT 102,TITLE                                                   7KWKKWK 207
      DO 10 IYR=1950,MAXIYR                                             7KWKKWK 225
      J=IYR-1949                                                        7KWKKWK 229
      CALL CGXM(1970)                                                   7KWKKWK 233
      IF(IYR-1970)30,30,31                                              7KWKKWK 236
30    CONTINUE                                                          7KWKKWK 244
      DO 75 K=1,3                                                       7KWKKWK 246
75    RATIO(K)=H(J,K)/H(J,6)                                            7KWKKWK 250
      ER(1)=ER(1)+(GRP(I,3)-H(J,1))**2                                  7KWKKWK 270
      ER(2)=ER(2)+(GRP(I,4)-H(J,2))**2                                  7KWKKWK 282
      ER(3)=ER(3)+(GRP(I,5)-H(J,3))**2                                  7KWKKWK 292
      PRINT 103,IYR,GRP(I,3),H(J,1),GRP(I,4),H(J,2),GRP(I,5),H(J,3)     7KWKKWK 302
      GO TO 10                                                          7KWKKWK 333
```

```
   31   PRINT 109,IYR,GRP(I,3),GRP(I,4),GRP(I,5)                        7KWKKWK 335
   10   CALL QKIY(1970)                                                  7KWKKWK 355
        DO 51 J=1,3                                                      7KWKKWK 365
   51   ER(J)=SQRTF(ER(J)/21.)                                           7KWKKWK 369
        PRINT 104,ER                                                     7KWKKWK 382
        DO 55 J=1,3                                                      7KWKKWK 400
   55   ER(J)=0.                                                         7KWKKWK 404
        CALL QKIY(0)                                                     7KWKKWK 415
        PRINT 105                                                        7KWKKWK 418
        AK=H(1,7)                                                        7KWKKWK 423
        DO 20 IYR=1950,MAXIYR                                            7KWKKWK 426
        J=IYR-1949                                                       7KWKKWK 430
        CALL CGXM(1970)                                                  7KWKKWK 434
        IF(IYR-1970)32,32,33                                             7KWKKWK 437
   32   CONTINUE                                                         7KWKKWK 445
        RATIO(1)=H(J,4)/H(J,6)                                           7KWKKWK 447
        RATIO(2)=AK/H(J,6)                                               7KWKKWK 452
        AK=DEL*AK+H(J,2)                                                 7KWKKWK 456
        K=J-1                                                            7KWKKWK 461
        RATIO(3)=(H(J,6)-H(K,6))/H(K,6)                                  7KWKKWK 465
      X PRINT 103,IYR,GRP(I,1),H(J,6),GRP(I,8),H(J,4),GRP(I,9),H(J,5)    7KWKKWK 472
        TWHX(J)=TWHX(J)+H(J,4)                                           7KWKKWK 504
        TWHM(J)=TWHM(J)+H(J,5)                                           7KWKKWK 508
        TWCM(J)=TWCM(J)+YIM(I)                                           7KWKKWK 512
        TWCX(J)=TWCX(J)+YEX(I)                                           7KWKKWK 516
        ER(1)=ER(1)+(GRP(I,1)-H(J,6))**2                                 7KWKKWK 520
        ER(2)=ER(2)+(GRP(I,8)-H(J,4))**2                                 7KWKKWK 530
        ER(3)=ER(3)+(GRP(I,9)-H(J,5))**2                                 7KWKKWK 540
        GO TO 20                                                         7KWKKWK 550
   33   PRINT 109,IYR,Y(I),YEX(I),YIM(I)                                 7KWKKWK 552
   20   CALL QKIY(1970)                                                  7KWKKWK 572
        DO 59 J=1,3                                                      7KWKKWK 582
   59   ER(J)=SQRTF(ER(J)/21.)                                           7KWKKWK 586
        PRINT 104,ER                                                     7KWKKWK 599
        CALL PLOOUT(H,I,IT1T)                                            7KWKKWK 617
        IF(SENSE SWITCH 23)7777,7778                                     7KWKKWK 622
 7778   CONTINUE                                                         7KWKKWK 627
   50   CONTINUE                                                         7KWKKWK 629
        PRINT 110                                                        7KWKKWK 637
        DO 2 IYR=1950,1970                                               7KWKKWK 642
        J=IYR-1949                                                       7KWKKWK 646
        DIFFH=TWHX(J)-TWHM(J)                                            7KWKKWK 650
        DIFFC=TWCX(J)-TWCM(J)                                            7KWKKWK 655
    2   PRINT 103,IYR,TWHX(J),TWHM(J),DIFFH,TWCX(J),TWCM(J),DIFFC        7KWKKWK 659
        CALL QKIY(0)                                                     7KWKKWK 694
        CALL CGXM(0)                                                     7KWKKWK 697
        CALL TMBAL( 0,ITER,AERROR)                                       7KWKKWK 700
        PRINT 110                                                        7KWKKWK 705
        DO 200 IYR=1950,1970                                             7KWKKWK 710
        PRINT 203                                                        7KWKKWK 714
        CALL CGXM(1970)                                                  7KWKKWK 719
        CALL TMBAL(1970,ITER,AERROR)                                     7KWKKWK 722
        PRINT 204,IYR,ITER,AERROR                                        7KWKKWK 727
        PRINT 201, IYR,(GRP(I,1),I=1,10)                                 7KWKKWK 738
```

```
PAGE 007    12/22/73      MACRO ECON MODEL QKIY  AND  CGXM   SUPPLY MODEL

                                  PRINT 201,IYR,YEX                                                7KWKKWK 759
                                  PRINT 201,IYR,YIM                                                7KWKKWK 779
                                  PRINT 205                                                        7KWKKWK 799
                                  DO 202 I=1,10                                                    7KWKKWK 804
                            202   PRINT 201,I,(TRADE(I,J),J=1,10)                                  7KWKKWK 808
                            200   CALL QKIY(1970)                                                  7KWKKWK 842
                            7777  CONTINUE                                                         7KWKKWK 852
                                  STOP                                                             7KWKKWK 854
                            100   FORMAT(4F10.0,4F10.0)                                            7KWKKWK 857
                            101   FORMAT(7(A4))                                                    7KWKKWK 862
                            102   FORMAT(/23X,7(A4)/15X,$CC$,7X,$HC$,7X,$CI$,7X,$HI$               7KWKKWK 867
                                 1,7X,$CG$,7X,$HG$)                                                7KWKKWK 868
                            103   FORMAT(4X,I5,6F9.3)                                              7KWKKWK 894
                            104   FORMAT(4X,$ ERROR$,3X,2(F9.5,9X),F9.5)                           7KWKKWK 899
                            105   FORMAT(/15X,$CY$,7X,$HY$,7X,$CX$,7X,$HX$,7X,$CM$,7X,$HM$)        7KWKKWK 911
                            109   FORMAT(4X,I5,2(F9.3,9X),F9.3)                                    7KWKKWK 932
                            110   FORMAT(1H1///29X,3X,$TABLE$)                                     7KWKKWK 941
                            111   FORMAT(1H1,10X,$PARAMETERS FOR MODEL$)                           7KWKKWK 953
                            201   FORMAT(I5,5F10.4,5F10.4)                                         7KWKKWK 964
                            203   FORMAT(///)                                                      7KWKKWK 969
                            204   FORMAT(20X,2I10,F20.10)                                          7KWKKWK 974
                            205   FORMAT(1X,5(4H****))                                             7KWKKWK 979
                                  END                                                              7KWKKWK 986

                            *                                                                      1KWKKWK1055

                            *PROGRAM END.   0 FORTRAN ERRORS                                       1KWKKWK1056
     *00000000  *00000000          END                                                             1KWKKWK1057

                                          0 ASSEMBLY ERRORS

                                     011145 PROGRAM OCTAL SIZE

                                     000457 EQL TABLE OCTAL SIZE

005507 FIN
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II.5. COMPUTER IMPLEMENTATION OF MICRO ECONOMIC WORLD MODEL

T.Shook, W.Strobele

APRIL 1974

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3.	Results of Validation Test	B 239
4.	Gross Outputs, Intermediate Demands and Inputs Computation	B 269
5.	Sectorial Final Demands	B 287

1. Basic Assumptions and Overview of the Report

Construction of a dynamic model of the world economy in which various production sectors are explicitly represented can be approached in the following two ways:

(i) Use the macro model to provide basic dynamics of the economic development, disaggregate the macro variables into the desired production sectors and then use the input-output matrix and the final demand coefficients to determine intermediate demands, components of the final demands and other micro variables.

(ii) Develop dynamic models on the micro level as such.

In this report we shall present the results of the effort following the first direction. The model on the micro level as implemented is given by the set of vector-matrix equations:

$$\bar{C}^t = \bar{P}_c c^t$$
$$\bar{G}^t = \bar{P}_g g^t$$
$$\bar{M}^t = \bar{P}_m m^t$$
$$\bar{E}^t = \bar{P}_e e^t$$
$$\bar{I}_d^t = \bar{P}_i i^t$$
$$\bar{I}_o^t = \bar{\bar{B}}\, \bar{I}_d^t$$
$$\bar{Y}^t = \bar{C}^t + \bar{G}^t + \bar{I}_o^t + \bar{X}^t - \bar{M}^t$$
$$\bar{Z}^t = \bar{\bar{A}}\, \bar{Z}^t + \bar{Y}^t$$
$$\bar{V}^t = \bar{\bar{F}}\, \bar{Z}^t$$

where:

$\bar{P}_c$, $\bar{P}_g$, $\bar{P}_m$, $\bar{P}_e$, $\bar{P}_i$ - are vectors of the distribution coefficients obtained from the input-output and trade data

$\overline{\overline{B}}$ - the matrix of investment flow coefficients

$\overline{\overline{A}}$ - the input-output matrix

$\overline{F}$ - the matrix of transformation coefficients from gross outputs to value addeds

$\overline{V}$ - vector of value-addeds

I_o - investment vector by origin

I_d - investment vector by destination

$\overline{G}$ - vector of government expenditures

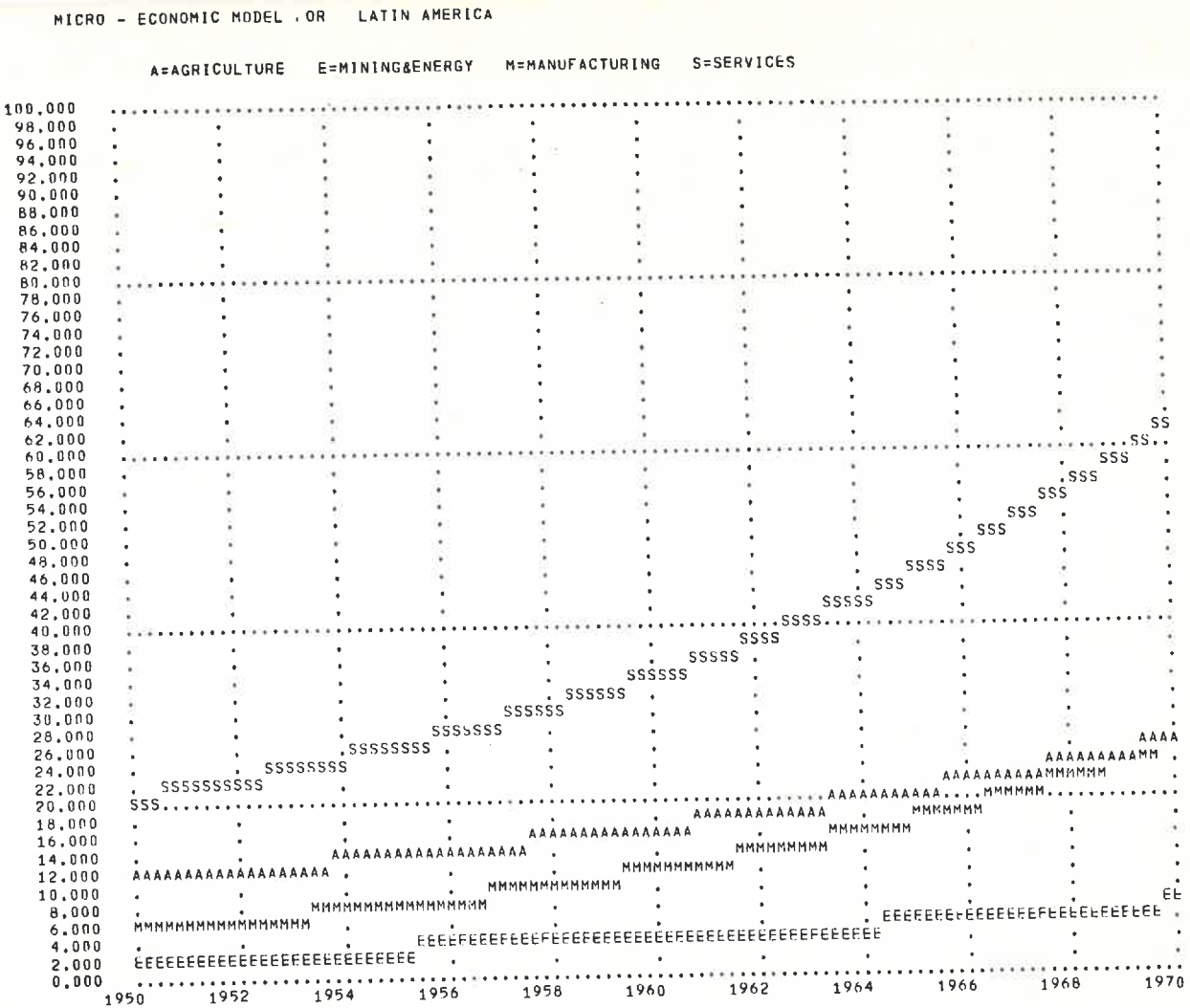
$\overline{C}$ - vector of consumption by sectors

$\overline{X}$ - vector of exports

$\overline{M}$ - vector of imports

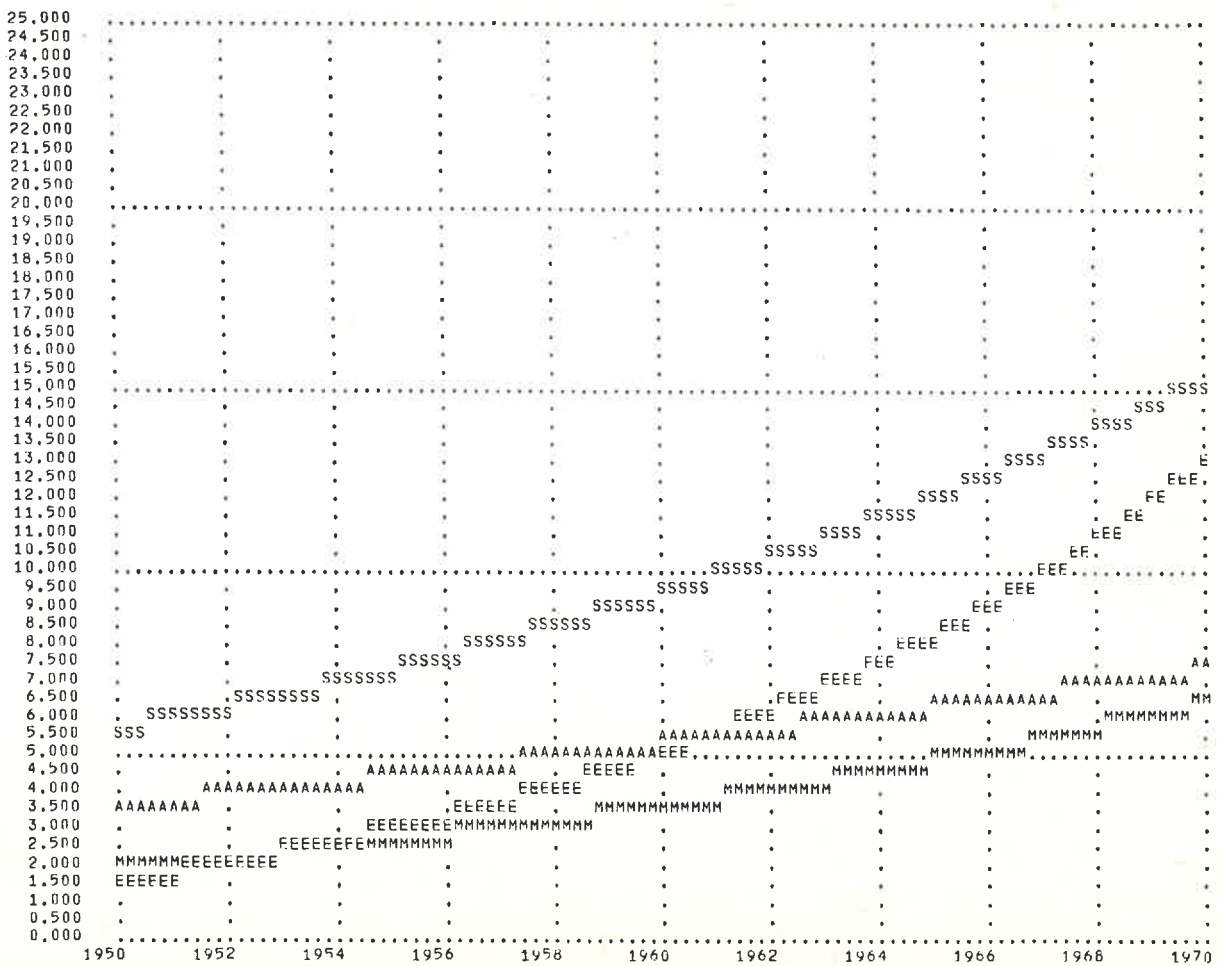
Section 2 contains the output of the four sectors model. Section 3 gives the results of the validation test in which the value addeds of a nine sector model is compared with the historical data. The results are presented in both table and graph forms. Section 4 contains some representative results of gross outputs, Z, intermediate demands, U, and inputs, W, which are derived by using input-output matrices aggregated to nine, four and two sectors as indicated. Section 5 gives the final demands by sectors computed by means of distribution coefficients for nine, four and two sectors.

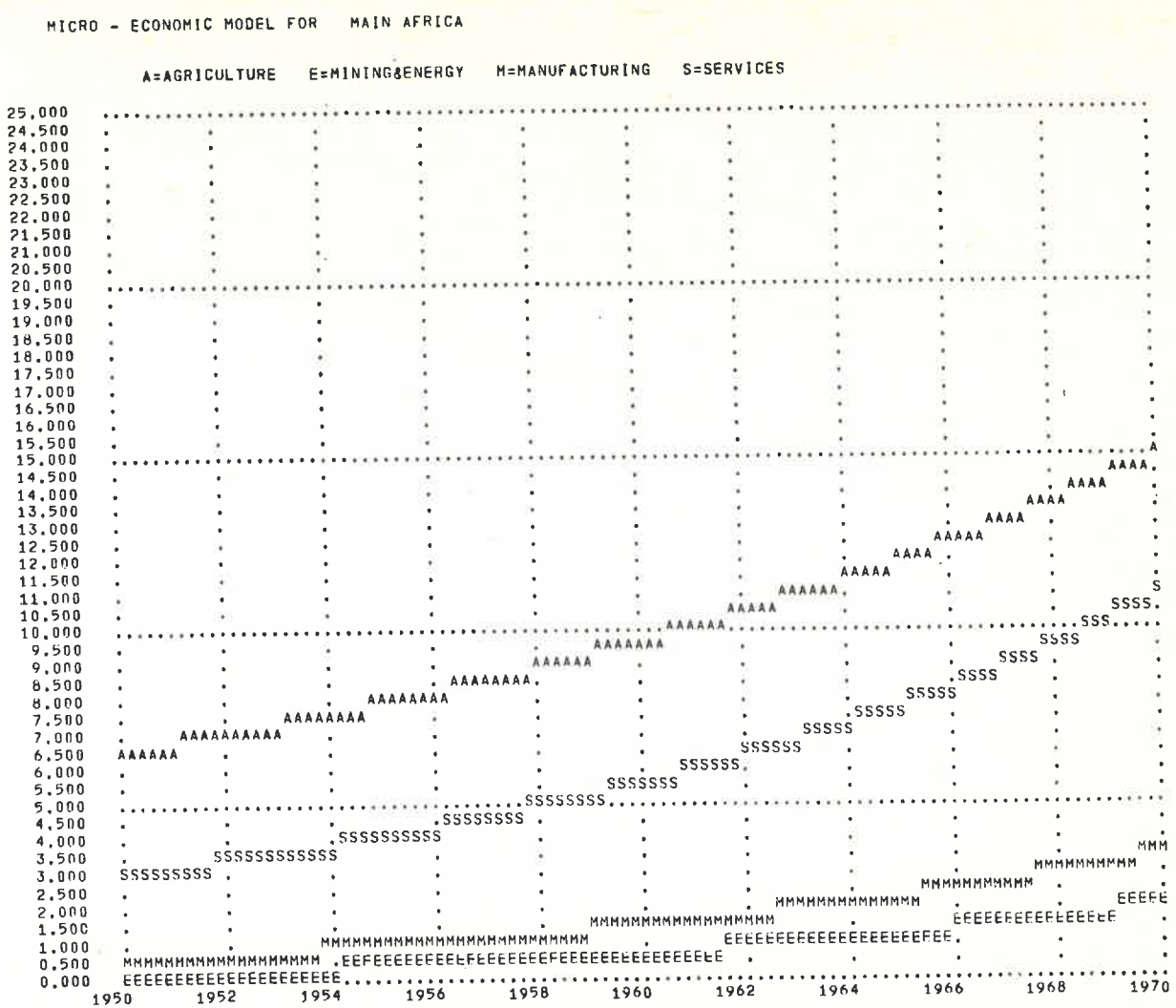
2. Value Addeds of Four Sector Model


MICRO - ECONOMIC MODEL FOR LATIN AMERICA
A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES
100.000
98.000
96.000
94.000
92.000
90.000
88.000
86.000
84.000
82.000
80.000
78.000
76.000
74.000
72.000
70.000
68.000
66.000
64.000
62.000
60.000
58.000
56.000
54.000
52.000
50.000
48.000
46.000
44.000
42.000
40.000
38.000
36.000
34.000
32.000
30.000
28.000
26.000
24.000
22.000
20.000
18.000
16.000
14.000
12.000
10.000
8.000
6.000
4.000
2.000
0.000
1950
1952
1954
1956
1958
1960
1962
1964
1966
1968
1970

MICRO - ECONOMIC MODEL OR MIDDLE EAST

A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES




MICRO - ECONOMIC MODEL FOR MAIN AFRICA
A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES
25,000
24,500
24,000
23,500
23,000
22,500
22,000
21,500
21,000
20,500
20,000
19,500
19,000
18,500
18,000
17,500
17,000
16,500
16,000
15,500
15,000
14,500
14,000
13,500
13,000
12,500
12,000
11,500
11,000
10,500
10,000
9,500
9,000
8,500
8,000
7,500
7,000
6,500
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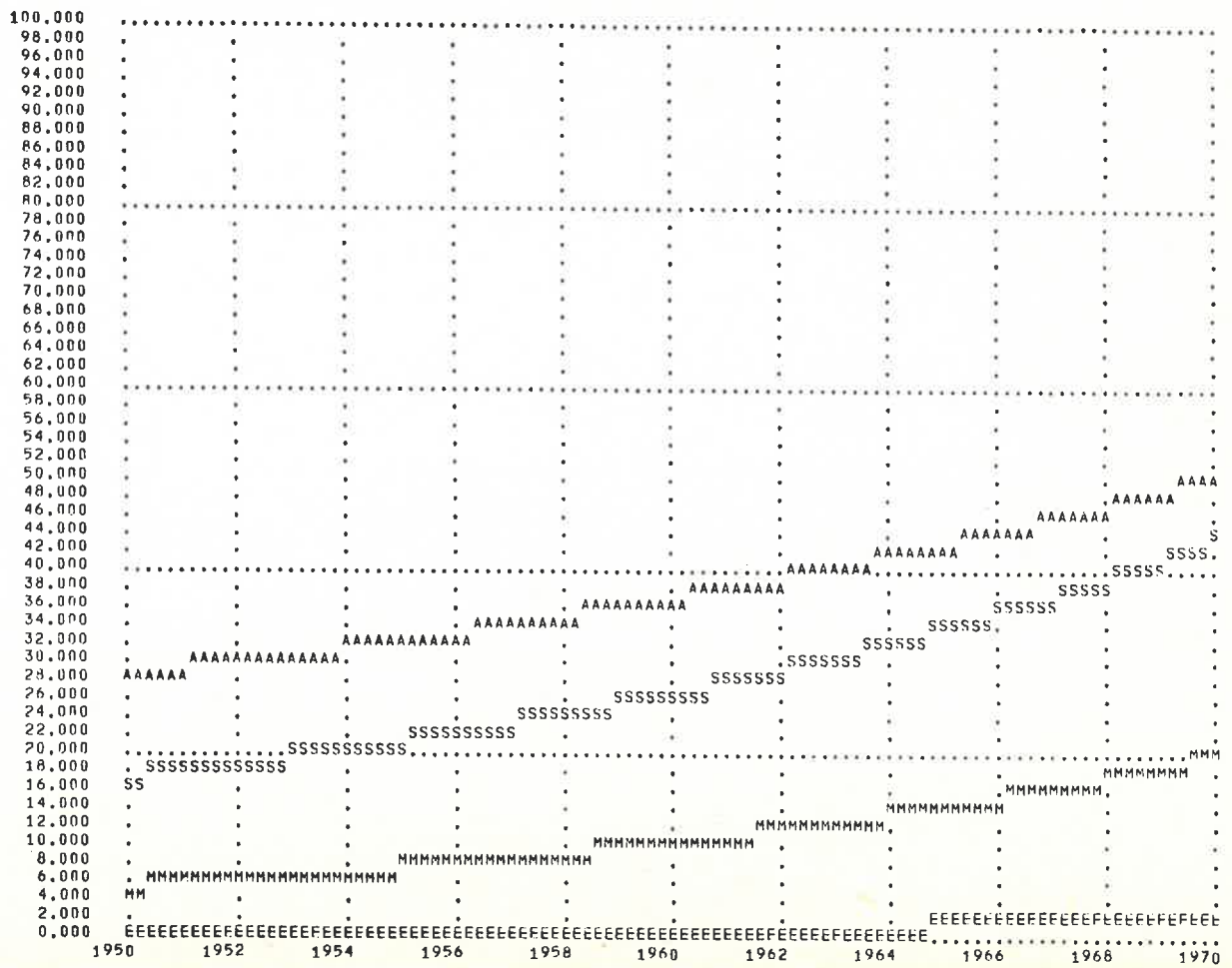
MICRO - ECONOMIC MODEL FOR SOUTH EAST ASIA
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96.000
94.000
92.000
90.000
88.000
86.000
84.000
82.000
80.000
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12.000
10.000
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6.000
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1952
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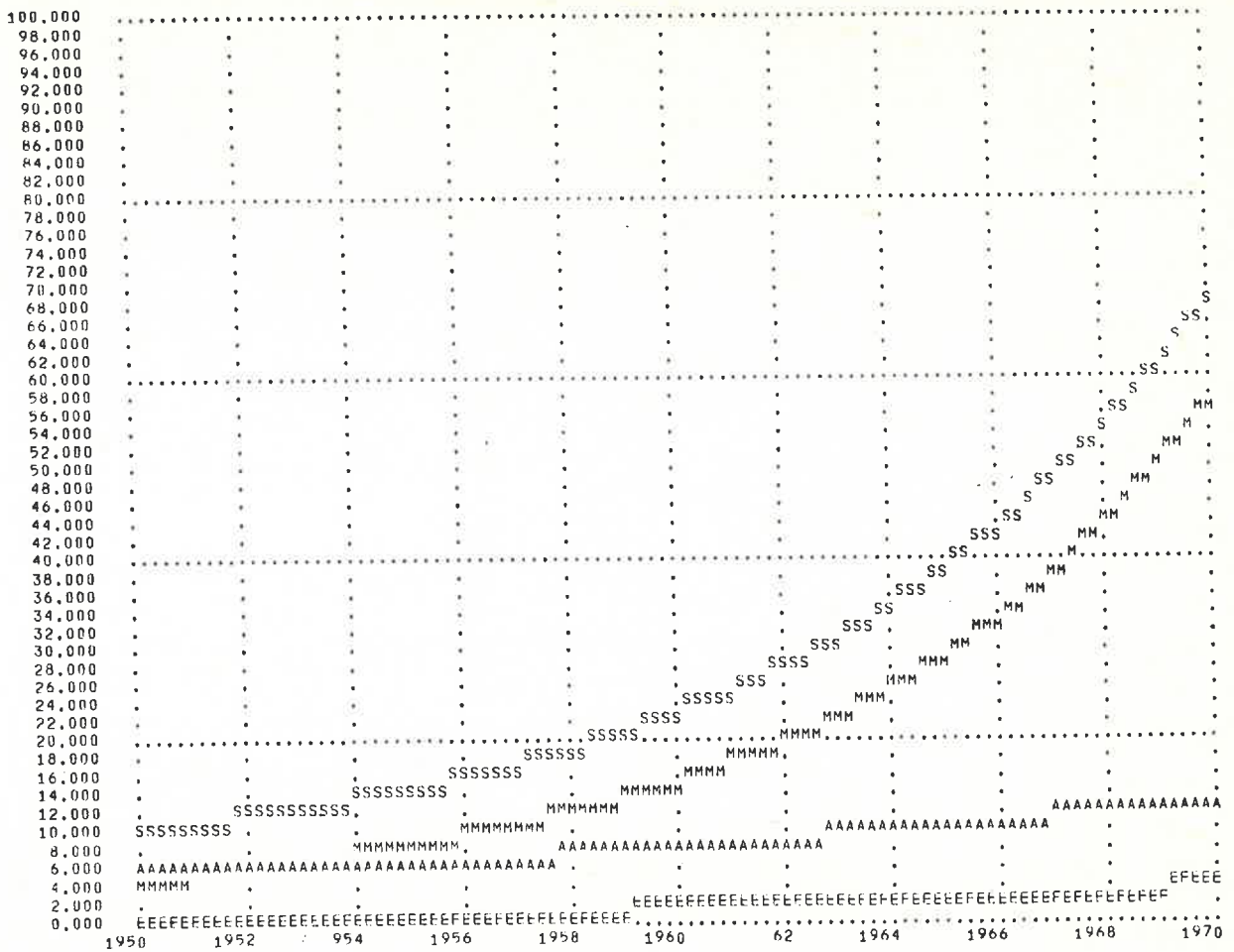
1968
1970

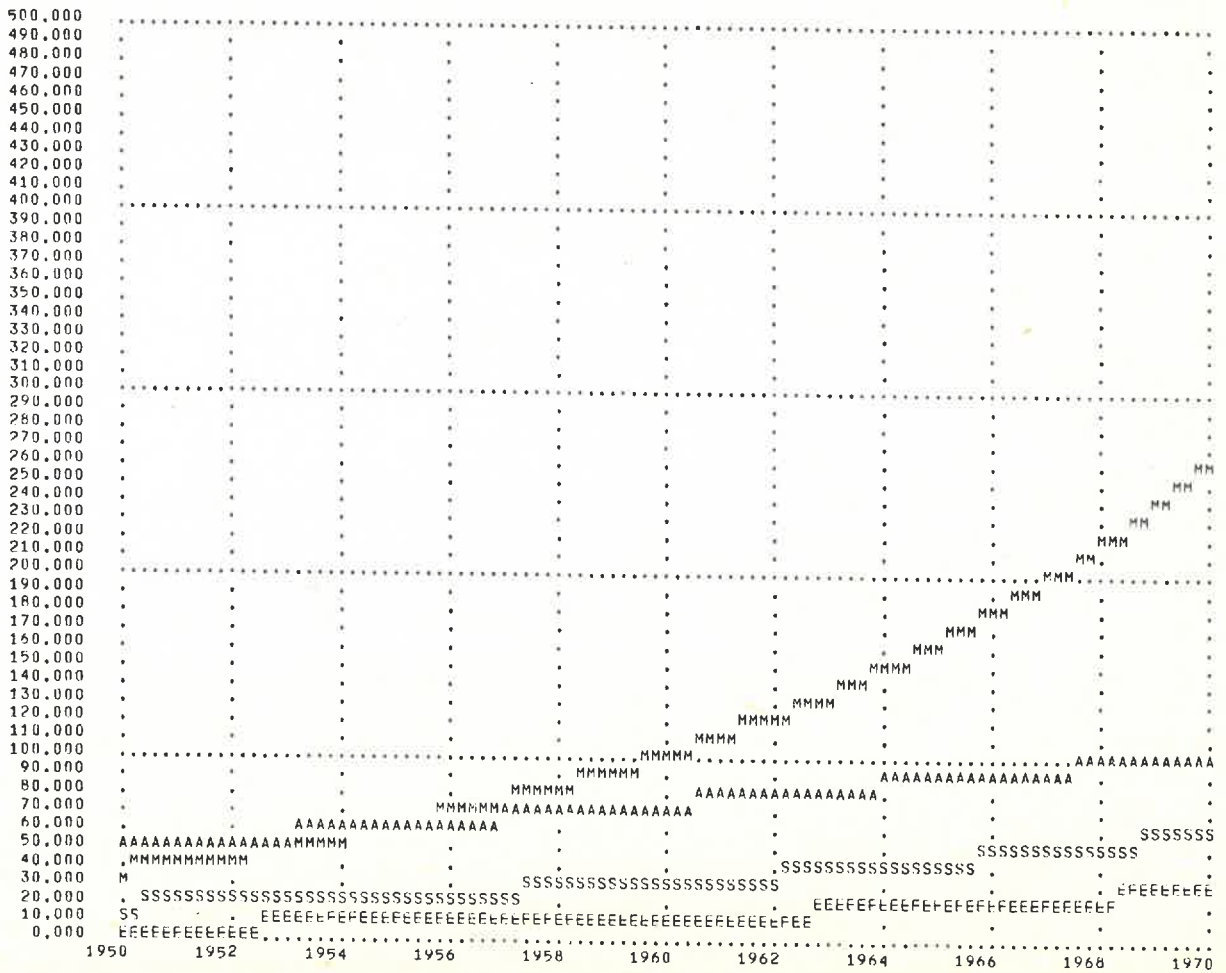
MICRO - ECONOMIC MODEL FOR JAPAN

A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES



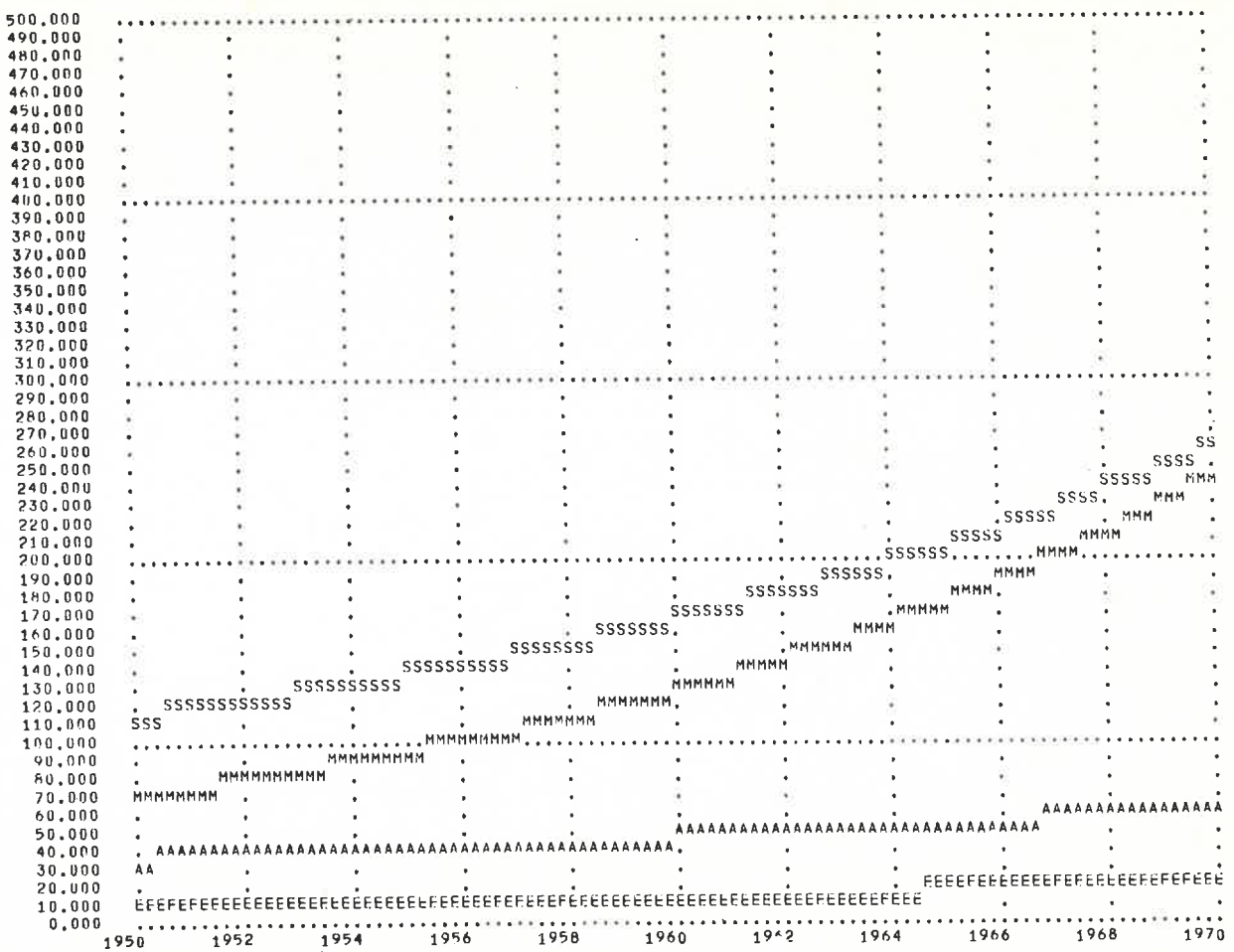
MICRO - ECONOMIC MODEL FOR E-EUR & USSR

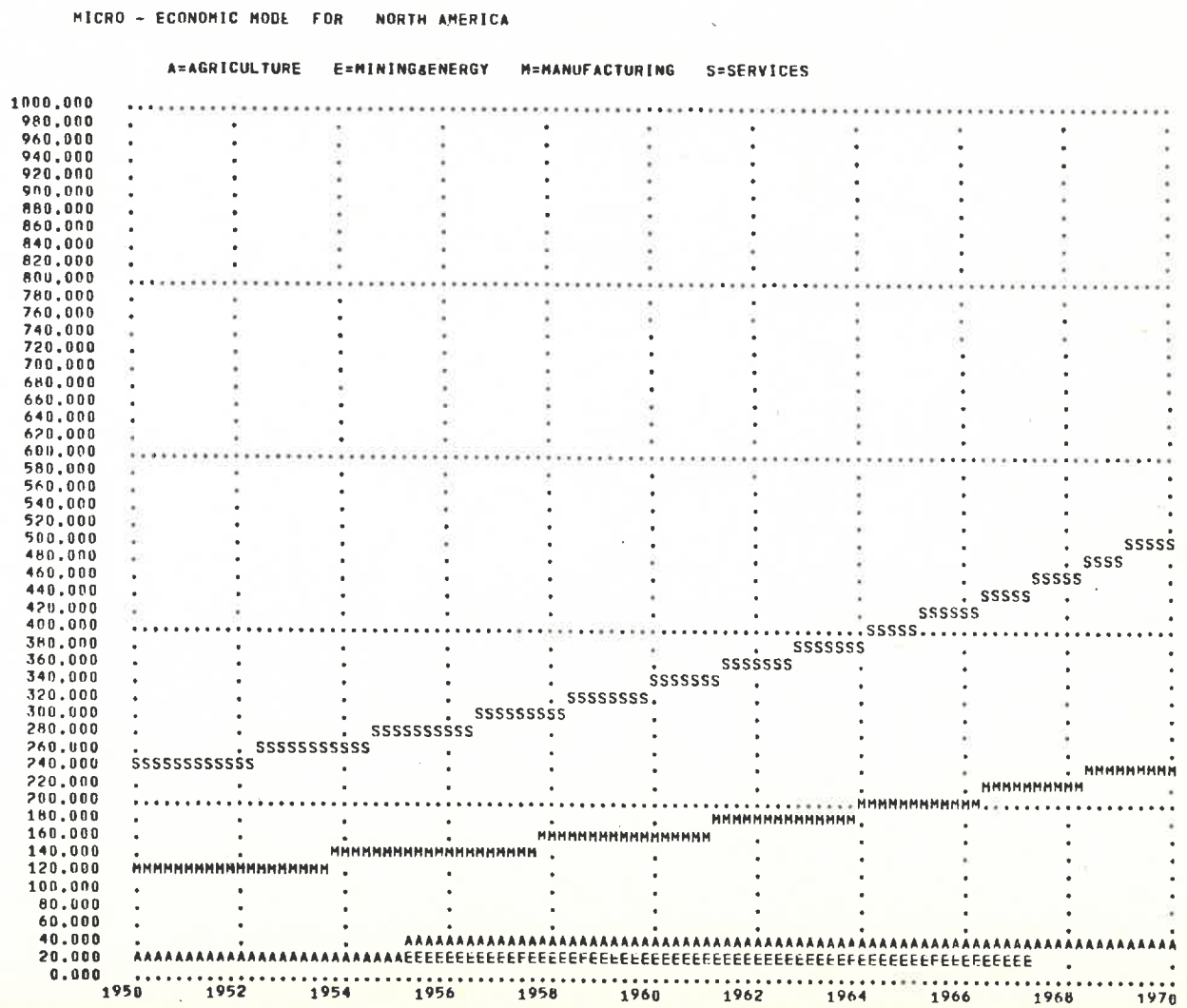
A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES



MICRO - ECONOMIC MODEL FOR W-EUROPE

A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES




MICRO - ECONOMIC MODEL FOR NORTH AMERICA
A=AGRICULTURE E=MINING&ENERGY M=MANUFACTURING S=SERVICES
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960.000
940.000
920.000
900.000
880.000
860.000
840.000
820.000
800.000
780.000
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220.000
200.000
180.000
160.000
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100.000
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60.000
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20.000
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1950
1952
1954
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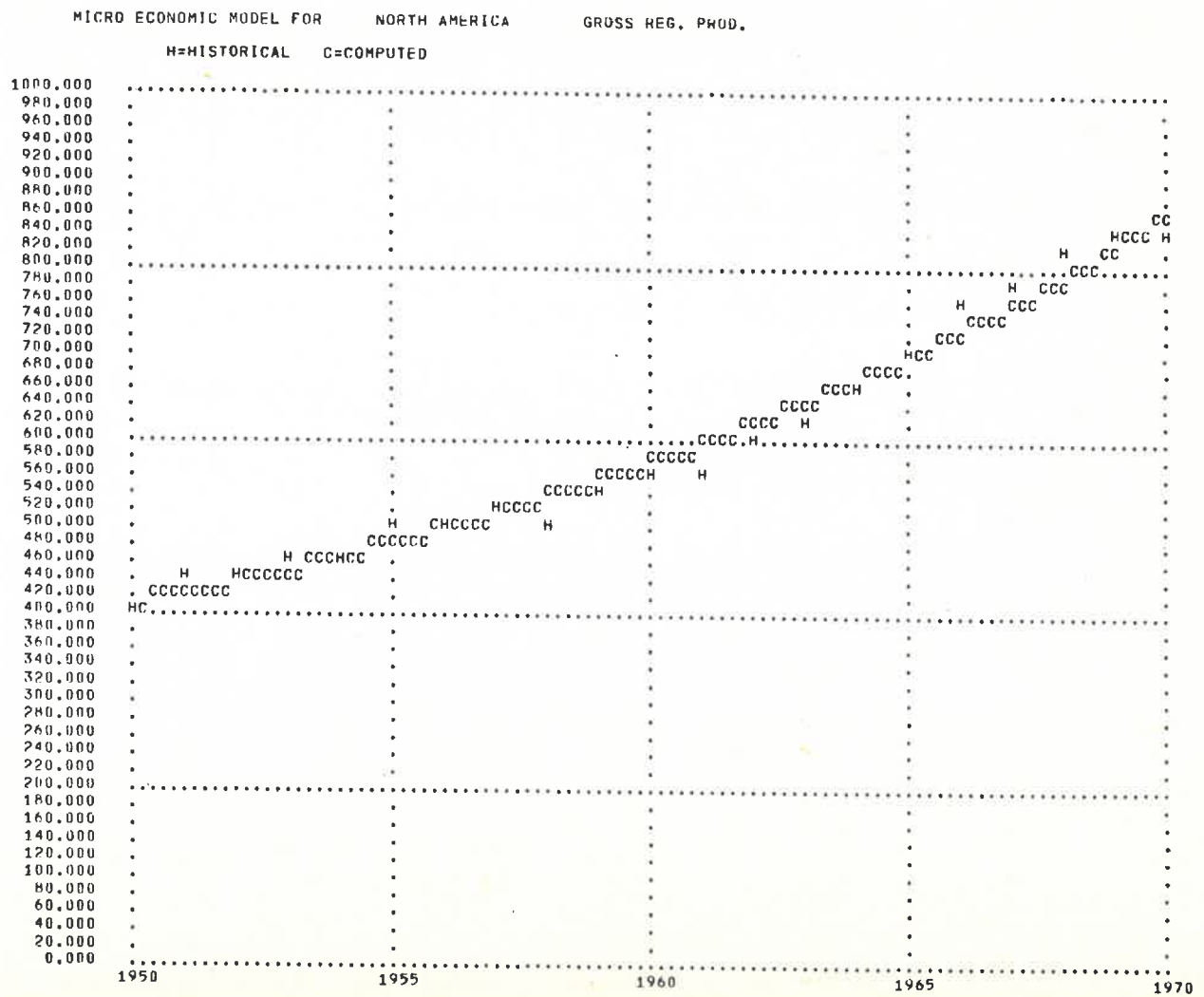
3. Results of Validation Test

(The result of the test will be presented in table form for all regions, in order to save space the graphical comparison will be given only for one region)

MICRO ECONOMIC MODEL FOR NORTH AMERICA

	GROSS REG. PROD. DATA	GROSS REG. PROD. COMP	AGRICULTURE DATA	AGRICULTURE COMP	MINING DATA	MINING COMP	ENERGY DATA	ENERGY COMP	FOOD DATA	FOOD COMP
1950	401.438	413.391	19.395	19.679	2.168	2.603	14.255	15.422	13.372	14.894
1951	439.668	426.547	19.655	19.961	2.506	2.693	16.401	16.039	15.390	15.243
1952	452.410	440.355	20.768	20.252	2.579	2.788	16.786	16.688	15.746	15.607
1953	471.527	454.852	21.362	20.551	2.782	2.887	18.156	17.372	17.024	15.988
1954	465.156	470.082	21.166	20.860	2.605	2.992	16.980	18.092	15.956	16.386
1955	503.387	486.102	22.199	21.178	3.574	3.102	20.035	18.852	17.468	16.802
1956	509.762	502.957	21.924	21.506	3.569	3.219	20.038	19.654	17.437	17.237
1957	522.508	520.703	21.167	21.845	3.659	3.341	20.436	20.501	17.823	17.693
1958	516.133	539.398	21.733	22.193	3.768	3.470	21.321	21.496	18.275	18.170
1959	547.992	559.117	22.141	22.553	4.165	3.607	23.456	22.344	20.113	18.670
1960	560.734	579.922	22.548	22.924	4.151	3.751	23.445	23.347	18.959	19.195
1961	573.477	601.891	22.944	23.307	3.900	3.903	23.517	24.409	19.502	19.747
1962	611.711	625.125	23.245	23.702	4.037	4.064	25.508	25.536	20.431	20.326
1963	637.203	649.688	24.218	24.108	4.143	4.235	26.704	26.731	20.841	20.934
1964	669.062	675.703	23.555	24.528	4.484	4.416	27.905	28.000	21.347	21.575
1965	713.664	703.266	25.055	24.960	4.711	4.608	28.980	29.350	21.842	22.249
1966	764.641	732.492	24.318	25.406	4.894	4.812	31.200	30.786	23.018	22.959
1967	783.758	763.531	25.242	25.867	4.860	5.029	32.610	32.316	23.674	23.708
1968	821.984	796.508	27.377	26.340	5.179	5.260	33.789	33.947	24.500	24.499
1969	847.477	831.594	28.311	26.829	5.001	5.506	35.177	35.688	24.835	25.335
1970	841.102	868.945	27.759	27.333	5.131	5.768	37.349	37.548	25.740	26.219

	MANUFACTURING DATA	MANUFACTURING COMP	CONSTRUCTION DATA	CONSTRUCTION COMP	SERVICES 1 DATA	SERVICES 1 COMP	SERVICES 2 DATA	SERVICES 2 COMP	DWELLINGS DATA	DWELLINGS COMP
1950	95.449	99.973	19.515	22.599	125.085	127.230	88.383	87.596	23.812	23.391
1951	109.795	103.433	22.733	22.989	133.453	130.643	94.317	90.967	25.415	24.574
1952	112.438	107.068	23.211	23.393	137.500	134.215	97.188	94.515	26.197	25.824
1953	121.383	110.891	23.626	23.812	140.813	137.955	99.550	98.248	26.832	27.143
1954	113.694	114.910	24.237	24.246	142.582	141.873	100.762	102.182	27.168	28.536
1955	127.355	119.144	26.276	24.697	146.332	145.982	109.939	106.329	30.203	30.009
1956	127.313	123.604	27.329	25.165	149.238	150.295	112.118	110.704	30.796	31.568
1957	130.037	128.305	26.760	25.651	154.604	154.820	116.135	115.322	31.882	33.219
1958	116.927	133.264	26.586	26.155	155.645	159.574	116.617	120.201	35.258	34.967
1959	128.625	138.500	27.896	26.660	162.770	164.574	121.939	125.359	36.883	36.820
1960	133.385	144.033	27.877	27.225	165.521	169.832	126.145	130.818	38.703	38.789
1961	134.332	149.881	27.762	27.791	170.760	175.367	130.492	136.598	40.266	40.878
1962	148.094	156.076	28.384	28.381	179.844	181.203	138.857	142.727	43.310	43.100
1963	156.846	162.629	28.679	28.995	185.652	187.355	144.037	149.223	46.079	45.463
1964	167.770	169.586	30.448	29.634	193.531	193.848	151.307	156.125	48.718	47.979
1965	185.371	176.961	30.836	30.299	204.574	200.707	160.174	163.455	52.107	50.662
1966	202.805	184.793	32.805	30.993	219.932	207.957	171.066	171.250	54.601	53.521
1967	202.564	193.125	30.808	31.717	216.594	215.629	188.766	179.551	58.637	56.577
1968	213.674	201.988	31.570	32.472	228.969	223.754	198.219	188.396	58.701	59.841
1969	220.557	211.426	31.872	33.259	235.051	232.371	202.840	197.834	63.928	63.334
1970	210.465	221.492	30.367	34.083	230.234	241.512	210.041	207.910	64.014	67.074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900.000
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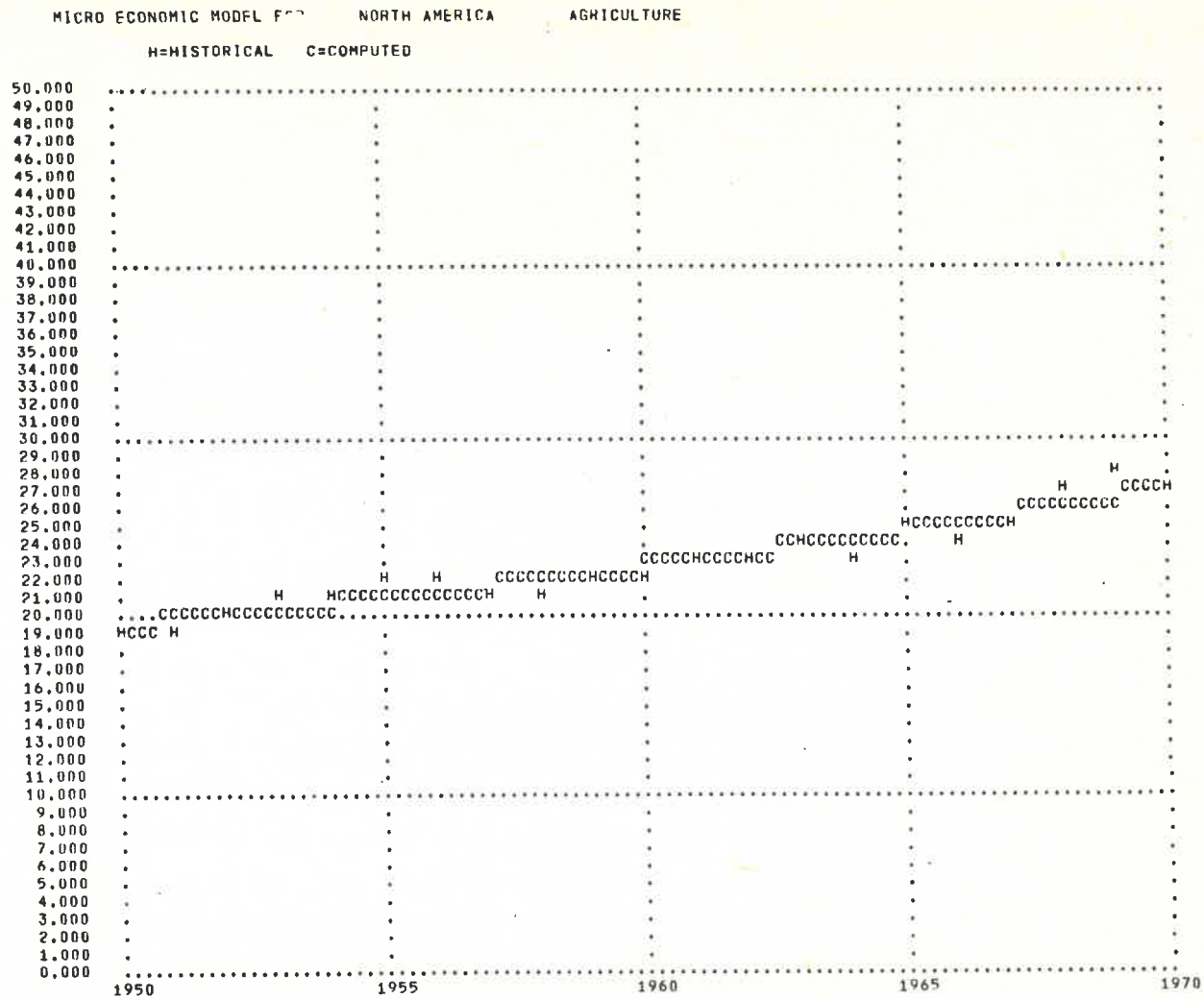
1950
1955
1960
1965
1970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NORTH AMERICA
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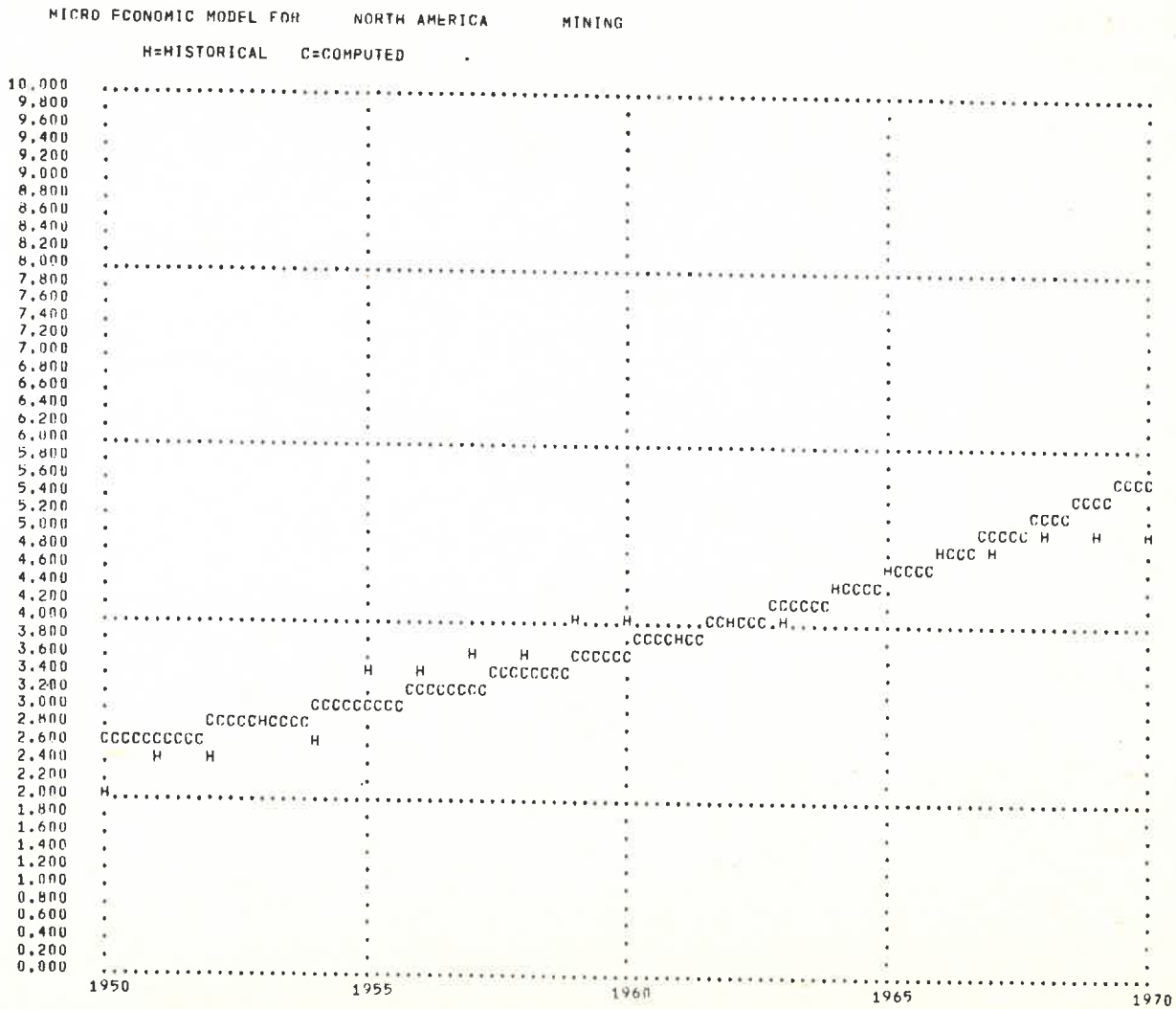
1960
1965
1970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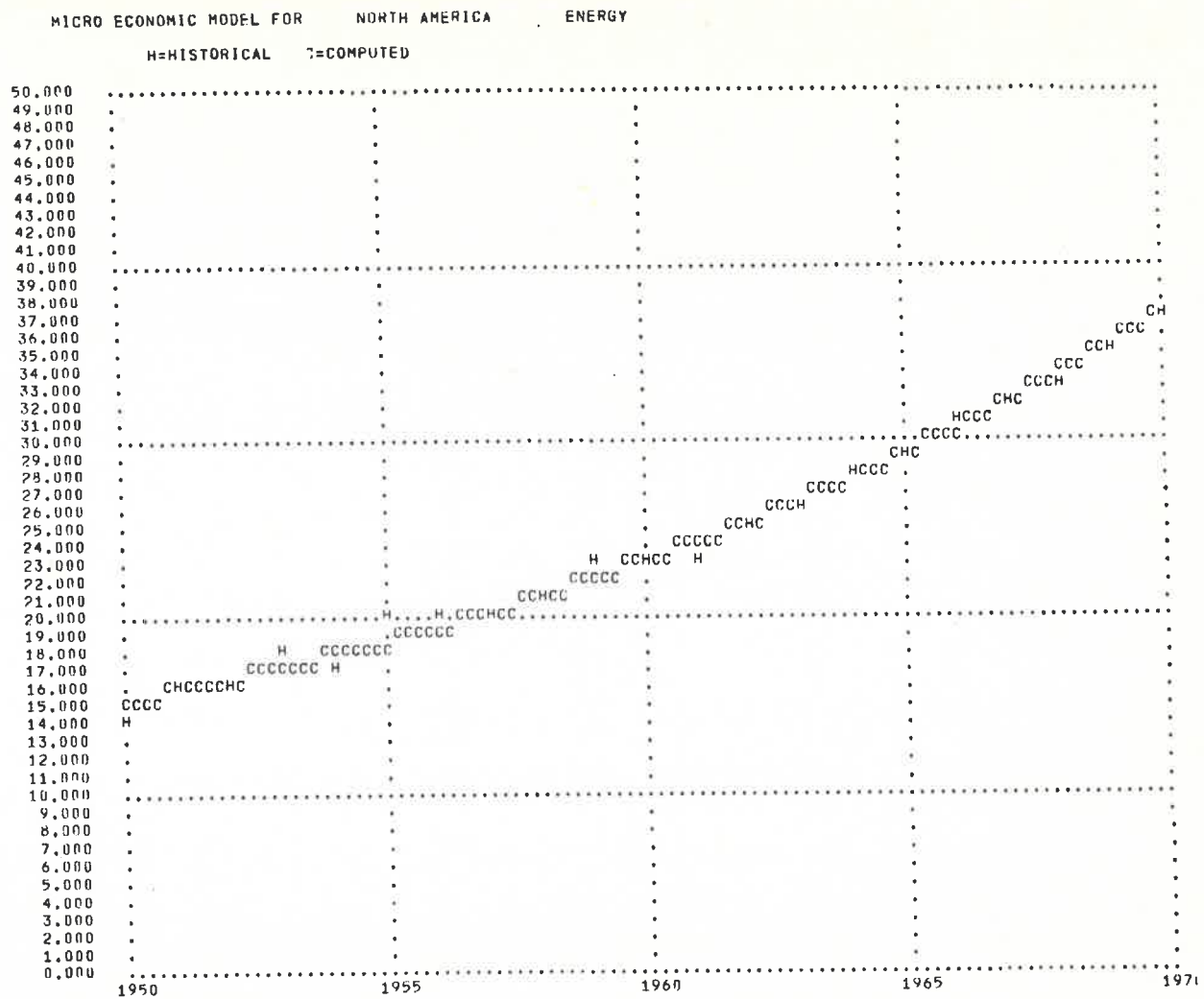
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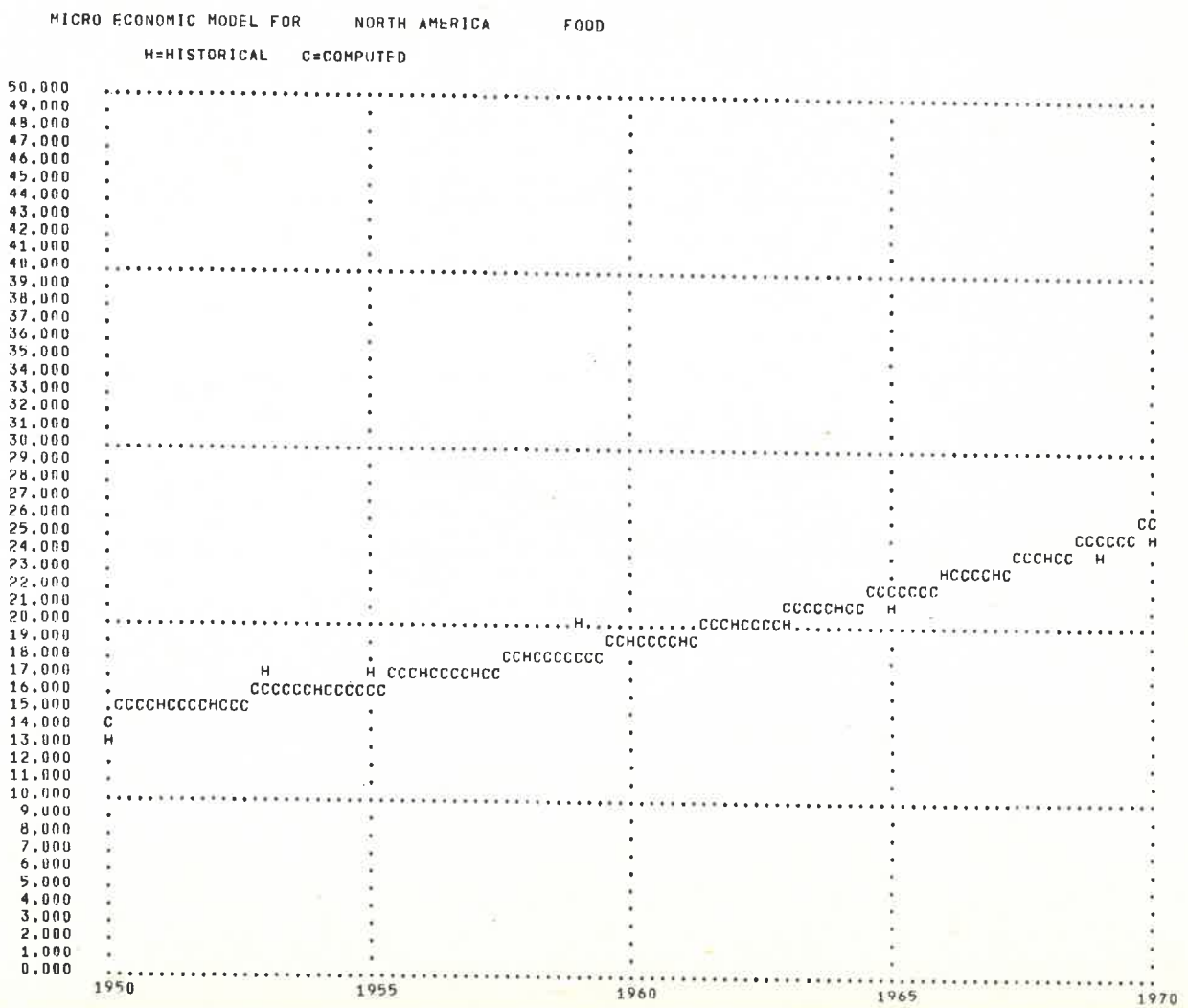
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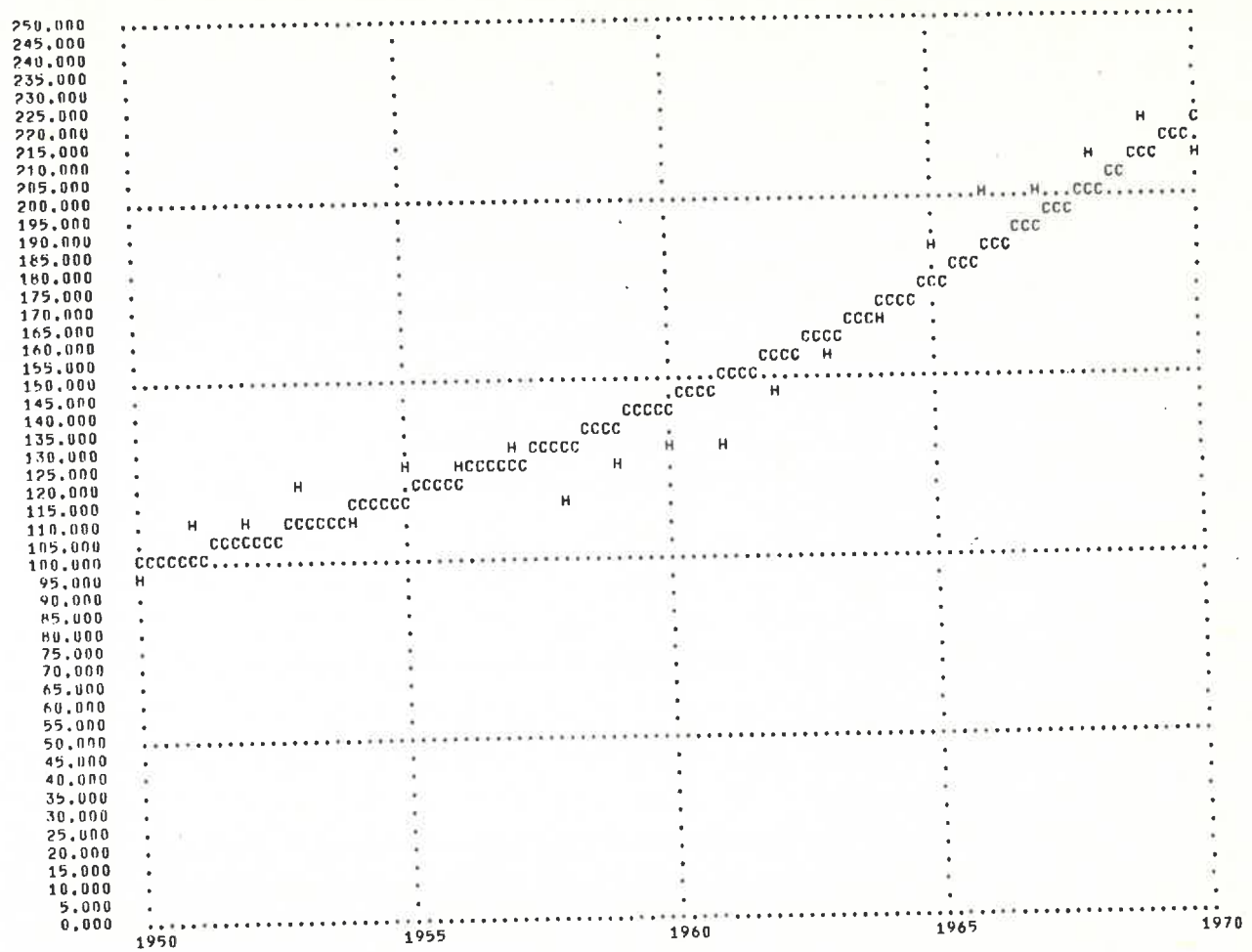
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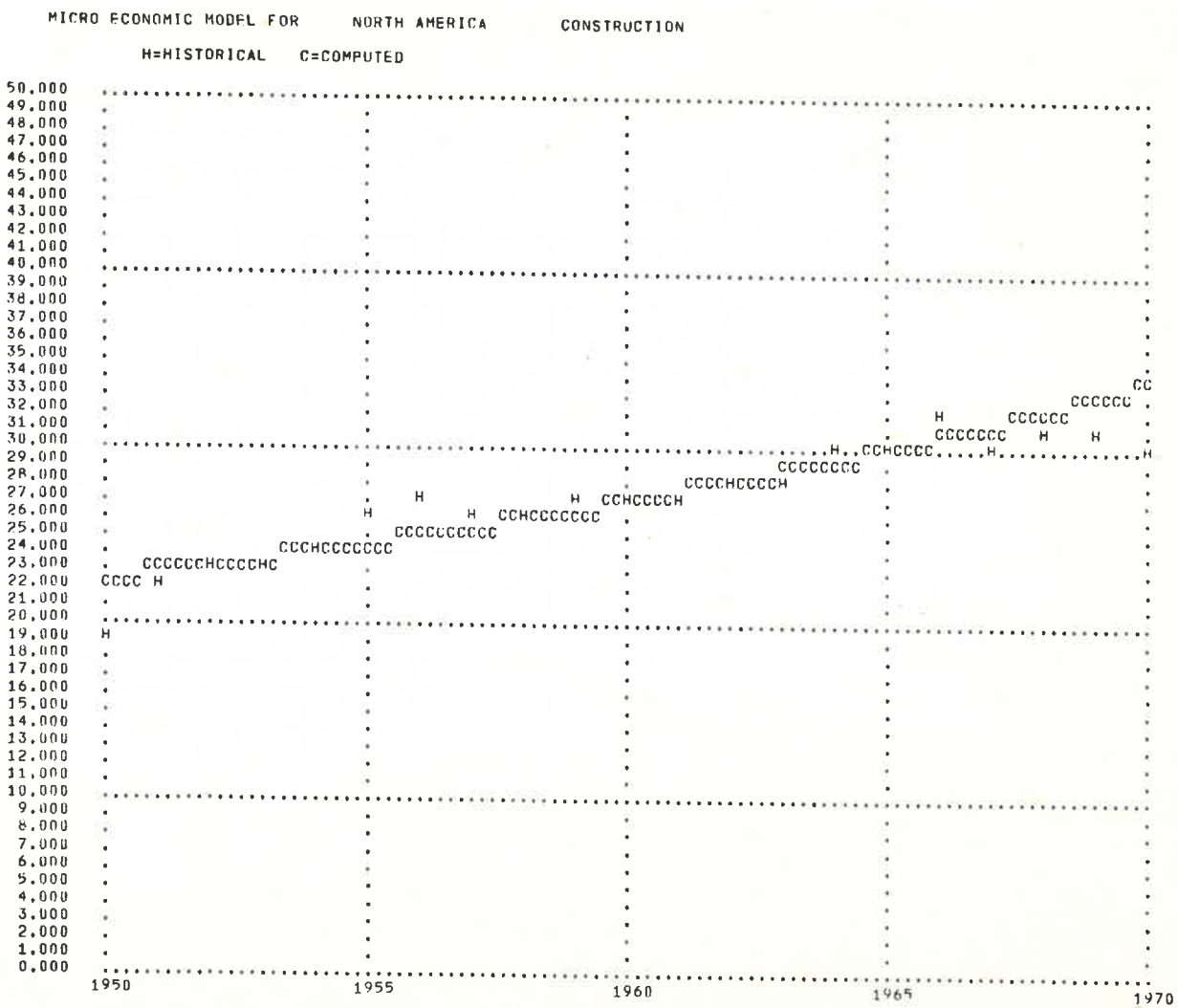
MICRO ECONOMIC MODEL FOR NORTH AMERICA CONSTRUCTION
H=HISTORICAL C=COMPUTED
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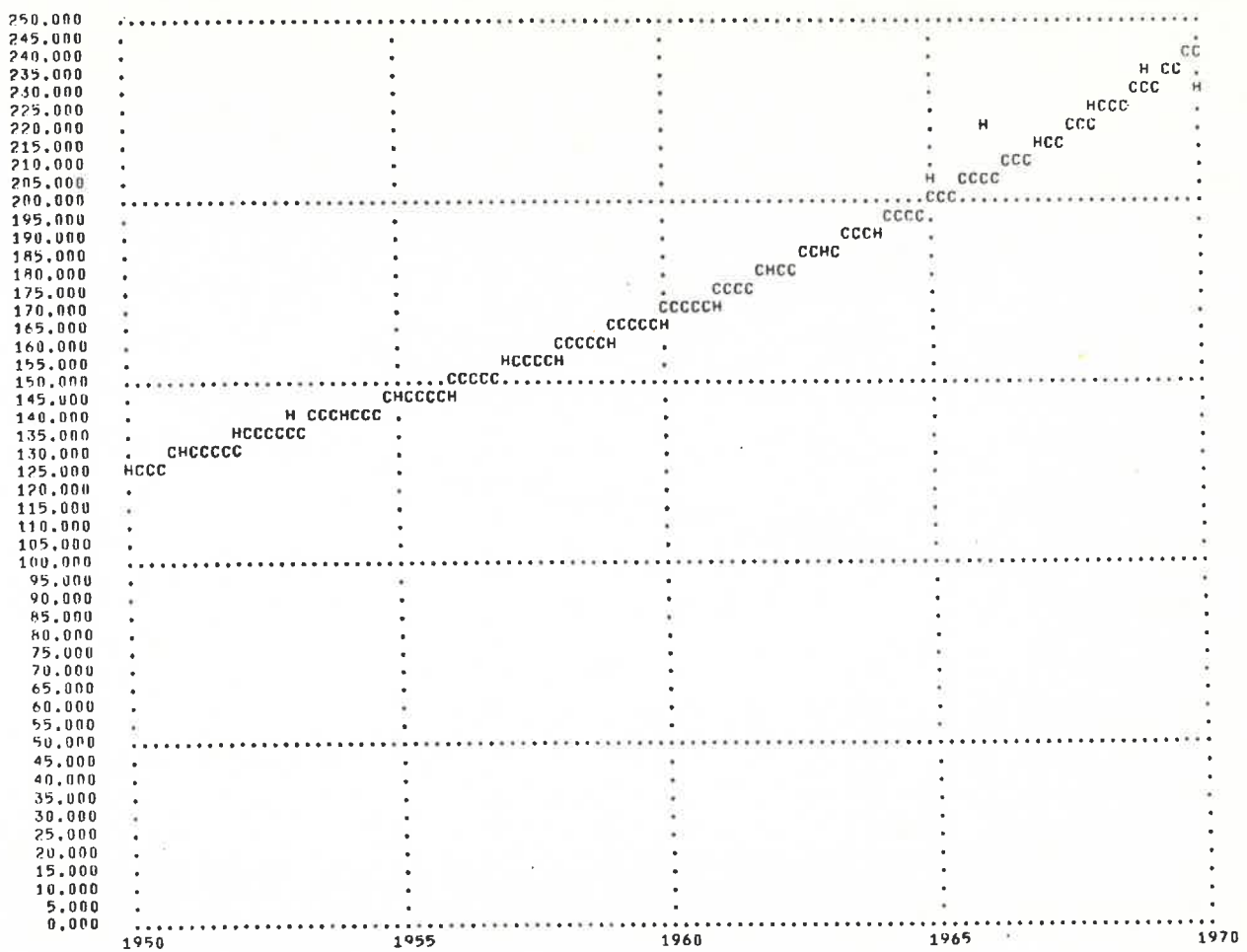
MICRO ECONOMIC MODEL FOR NORTH AMERICA SERVICES 1

H=HISTORICAL C=COMPUTED



MICRO ECONOMIC MODEL FOR NORTH AMERICA SERVICES 2

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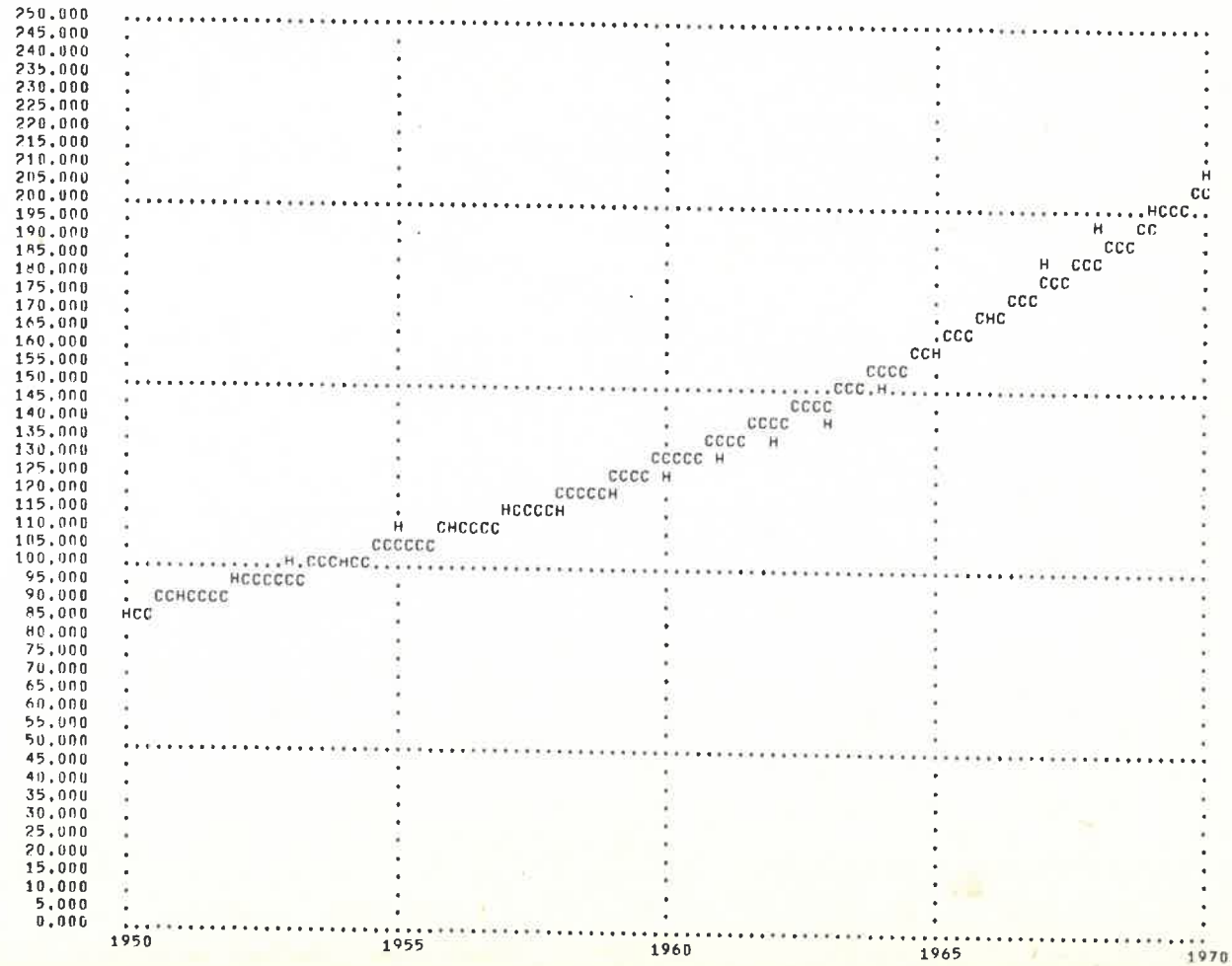

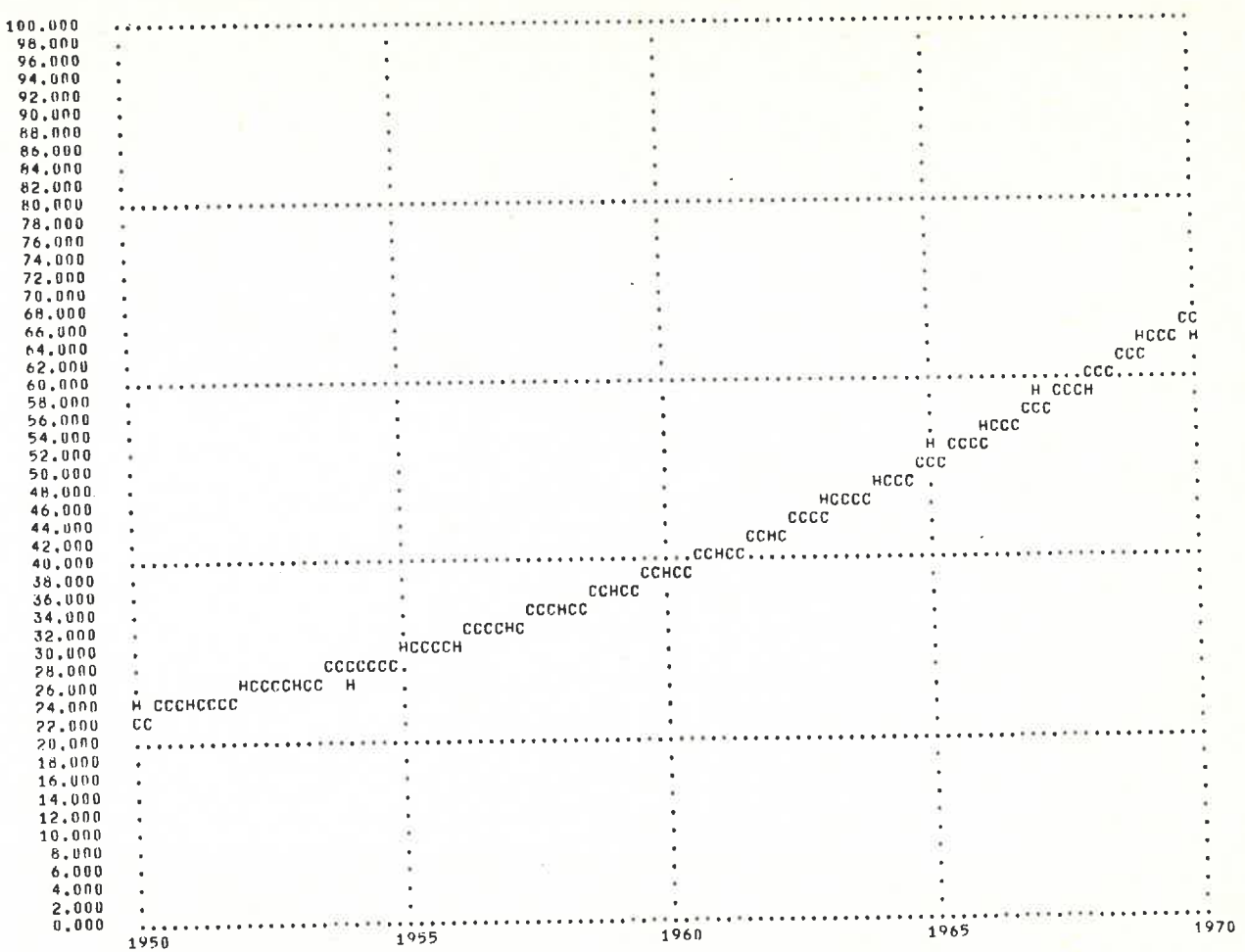
MICRO ECONOMIC MODEL FOR NORTH AMERICA DWELLINGS
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MICRO ECONOMIC MODEL FOR NORTH AMERICA

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	401.438	413.391	32.767	34.573	16.423	18.025	114.964	122.572	237.277	238.215
1951	439.468	426.547	35.045	35.204	18.907	18.732	132.527	126.422	253.184	246.184
1952	452.410	440.355	36.514	35.859	19.365	19.476	135.648	130.463	260.883	254.551
1953	471.527	454.852	38.386	36.539	20.938	20.259	145.008	134.703	267.191	263.344
1954	465.156	470.082	37.122	37.246	19.585	21.084	137.930	139.158	270.512	272.590
1955	503.387	486.102	39.667	37.979	23.609	21.954	153.631	143.842	286.469	282.320
1956	509.762	502.957	39.361	38.743	23.607	22.873	154.643	148.770	292.148	292.566
1957	522.508	520.703	38.990	39.537	24.095	23.842	156.797	153.957	302.617	303.359
1958	516.133	539.398	40.008	40.363	25.089	24.867	143.512	159.422	307.520	314.742
1959	547.992	559.117	42.254	41.224	27.621	25.951	156.520	165.184	321.590	326.758
1960	560.734	579.922	41.507	42.119	27.596	27.097	161.262	171.258	330.367	339.438
1961	573.477	601.891	42.446	43.053	27.417	28.312	162.094	177.676	341.516	352.844
1962	611.711	625.125	43.676	44.027	29.545	29.600	176.477	184.457	362.008	367.031
1963	637.203	649.688	45.059	45.042	30.847	30.966	185.523	191.629	375.766	382.039
1964	669.062	675.703	44.902	46.103	32.389	32.417	198.217	199.223	393.551	397.955
1965	713.664	703.266	46.897	47.209	33.691	33.958	216.207	207.266	416.852	414.820
1966	764.641	732.492	47.336	48.365	36.094	35.599	235.609	215.793	445.594	432.727
1967	783.758	763.531	48.916	49.575	37.470	37.346	233.371	224.844	463.996	451.758
1968	821.984	796.508	51.877	50.840	38.968	39.208	245.242	234.461	485.887	471.992
1969	847.477	831.594	53.146	52.164	40.178	41.194	252.428	244.668	501.719	493.531
1970	841.102	868.945	53.499	53.551	42.480	43.316	240.830	255.578	504.285	516.492

MICRO ECONOMIC MODEL FOR W-EUROPE

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	229.986	239.191	26.683	27.694	1.058	1.281	8.488	9.084	10.742	11.123
1951	238.504	248.436	26.686	28.144	1.122	1.344	8.999	9.402	11.386	11.501
1952	251.281	258.285	28.121	28.614	1.181	1.412	9.474	9.740	11.987	11.903
1953	264.059	268.777	29.606	29.104	1.241	1.484	10.010	10.100	12.677	12.330
1954	276.836	279.961	29.990	29.615	1.329	1.562	10.717	10.483	13.569	12.784
1955	293.871	291.867	29.839	30.145	1.911	1.645	10.642	10.889	12.465	13.267
1956	310.906	304.547	29.977	30.693	2.021	1.733	11.319	11.322	13.247	13.780
1957	323.684	318.043	31.500	31.258	2.137	1.828	11.946	11.781	14.018	14.323
1958	327.941	332.410	32.376	31.839	2.198	1.929	12.236	12.269	14.204	14.901
1959	344.980	347.699	33.121	32.435	2.346	2.037	13.076	12.786	15.181	15.513
1960	370.531	363.977	33.088	33.043	2.557	2.153	13.858	13.336	16.044	16.164
1961	391.828	381.301	34.088	33.662	2.625	2.277	14.263	13.920	16.731	16.853
1962	408.863	399.738	34.347	34.291	2.617	2.409	14.966	14.539	17.910	17.584
1963	425.898	419.367	34.923	34.926	2.598	2.551	15.716	15.197	18.526	18.360
1964	451.453	440.266	35.533	35.566	2.709	2.703	16.344	15.896	19.550	19.183
1965	472.750	462.508	35.605	36.207	2.790	2.865	16.975	16.637	20.569	20.055
1966	489.785	486.199	36.002	36.846	2.792	3.039	17.438	17.424	21.601	20.980
1967	506.820	511.430	38.729	37.479	2.889	3.226	17.641	18.268	22.254	21.962
1968	532.375	538.305	39.297	38.103	3.248	3.426	18.690	19.147	23.056	23.003
1969	566.445	566.930	39.088	38.712	3.342	3.639	20.450	20.089	24.246	24.108
1970	592.000	597.445	39.731	39.302	3.671	3.869	20.546	21.091	25.757	25.280

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	54.702	56.425	15.642	16.537	66.524	69.371	37.472	38.845	8.672	8.827
1951	58.027	59.791	16.231	17.304	68.601	71.583	38.525	40.155	8.927	9.209
1952	61.093	63.394	17.089	18.124	72.225	73.932	40.686	41.548	9.424	9.616
1953	64.547	67.250	18.673	18.999	75.164	76.426	42.336	43.028	9.798	10.051
1954	69.173	71.385	19.938	19.934	78.008	79.076	43.947	44.603	10.163	10.514
1955	78.582	75.813	21.696	20.933	81.345	81.887	46.686	46.274	10.701	11.009
1956	83.525	80.561	23.012	22.000	86.667	84.869	49.723	48.050	11.413	11.537
1957	86.862	85.646	23.342	23.139	90.229	88.027	51.605	49.934	12.044	12.100
1958	87.127	91.102	24.143	24.355	91.326	91.375	51.731	51.934	12.597	12.701
1959	93.118	96.951	25.738	25.655	95.293	94.920	53.960	54.055	13.145	13.342
1960	108.305	103.227	27.085	27.044	99.413	98.676	55.580	56.304	14.599	14.026
1961	115.002	109.959	29.583	28.528	105.050	102.650	58.892	58.689	15.595	14.756
1962	120.912	117.184	30.749	30.115	109.052	106.857	62.193	61.220	16.111	15.534
1963	127.131	124.939	31.943	31.810	113.204	111.313	65.035	63.902	16.823	16.366
1964	138.203	133.264	35.397	33.623	118.156	116.025	67.726	66.747	17.834	17.253
1965	146.582	142.203	37.024	35.560	123.602	121.012	70.927	69.763	18.677	18.200
1966	153.709	151.809	39.040	37.633	127.456	126.291	72.152	72.961	19.593	19.212
1967	157.451	162.125	40.300	39.850	132.104	131.877	74.416	76.353	21.037	20.292
1968	169.328	173.211	41.427	42.222	137.539	137.789	77.476	79.949	22.311	21.446
1969	185.299	185.129	43.507	44.760	142.191	144.043	87.014	83.764	21.301	22.679
1970	196.164	197.945	45.000	47.478	148.621	150.664	90.119	87.813	22.382	23.997

MICRO ECONOMIC MODEL FOR W-EUROPE

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	229.986	239.191	37.425	38.817	9.546	10.365	70.344	72.963	112.668	117.043
1951	238.504	248.436	38.872	39.645	10.121	10.746	74.258	77.097	116.052	120.946
1952	251.281	258.285	40.108	40.517	10.655	11.152	78.182	81.518	122.334	125.096
1953	264.059	268.777	42.283	41.435	11.251	11.584	83.220	86.250	127.298	129.504
1954	276.836	279.961	43.559	42.399	12.046	12.044	89.110	91.320	132.115	134.193
1955	293.871	291.867	42.304	43.412	12.553	12.534	100.277	96.746	138.729	139.172
1956	310.906	304.547	43.224	44.473	13.340	13.055	106.537	102.561	147.801	144.455
1957	323.684	318.043	45.518	45.582	14.083	13.609	110.204	108.787	153.875	150.063
1958	327.941	332.410	46.580	46.740	14.434	14.198	111.270	115.459	155.652	156.010
1959	344.980	347.699	48.302	47.948	15.422	14.823	118.855	122.607	162.396	162.316
1960	370.531	363.977	49.132	49.207	16.415	15.489	135.389	130.271	169.590	169.006
1961	391.928	381.301	50.819	50.516	16.868	16.197	144.584	138.490	179.535	176.096
1962	408.863	399.738	52.257	51.875	17.583	16.949	151.660	147.299	187.354	183.611
1963	425.898	419.367	53.449	53.287	18.314	17.748	159.072	156.750	195.061	191.580
1964	451.453	440.266	55.083	54.749	19.053	18.599	173.600	166.889	203.715	200.025
1965	472.750	462.508	56.174	56.262	19.765	19.502	183.605	177.766	213.203	208.975
1966	489.785	486.199	57.603	57.827	20.230	20.464	192.748	189.441	219.199	218.463
1967	506.820	511.430	60.983	59.442	20.530	21.486	197.750	201.977	227.557	228.521
1968	532.375	538.305	62.353	61.106	21.938	22.573	210.754	215.438	237.324	239.184
1969	566.445	566.930	63.334	62.820	23.792	23.729	228.805	229.891	250.506	250.484
1970	592.000	597.445	65.487	64.583	24.217	24.959	241.164	245.422	261.121	262.473

MICRO ECONOMIC MODEL F' JAPAN

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	24.046	22.961	5.129	5.469	0.115	0.115	1.034	1.009	0.515	0.474
1951	25.279	24.327	5.394	5.577	0.121	0.120	1.084	1.045	0.544	0.515
1952	26.575	25.909	5.672	5.708	0.128	0.127	1.136	1.088	0.576	0.562
1953	27.937	27.728	5.964	5.860	0.134	0.134	1.190	1.137	0.609	0.615
1954	29.982	29.807	6.658	6.033	0.144	0.143	1.189	1.193	0.657	0.677
1955	32.707	32.175	7.543	6.724	0.157	0.152	1.200	1.257	0.720	0.747
1956	35.433	34.865	7.547	6.433	0.169	0.163	1.305	1.328	0.783	0.827
1957	38.158	37.916	7.456	6.656	0.181	0.175	1.411	1.407	0.847	0.919
1958	40.203	41.373	7.147	6.893	0.189	0.189	1.491	1.495	0.896	1.024
1959	43.610	45.287	6.693	7.140	0.211	0.204	1.561	1.592	1.108	1.144
1960	49.742	49.718	6.425	7.393	0.249	0.221	1.716	1.699	1.417	1.281
1961	57.919	54.736	6.984	7.649	0.272	0.241	1.946	1.817	1.598	1.439
1962	61.326	60.417	7.069	7.903	0.270	0.262	2.054	1.947	1.784	1.619
1963	68.140	66.854	6.922	8.146	0.266	0.287	2.132	2.089	2.119	1.825
1964	77.680	74.148	7.480	8.372	0.287	0.314	2.353	2.244	2.276	2.063
1965	81.087	82.422	7.775	8.568	0.324	0.344	2.473	2.414	2.400	2.335
1966	89.263	91.811	8.380	8.722	0.348	0.379	2.624	2.599	2.534	2.648
1967	101.529	102.475	9.513	8.818	0.376	0.417	2.680	2.801	2.985	3.008
1968	115.838	114.594	9.810	8.836	0.452	0.460	2.896	3.020	3.243	3.422
1969	130.146	128.377	10.175	8.750	0.586	0.508	3.266	3.258	3.747	3.900
1970	143.094	144.066	9.673	8.530	0.572	0.562	3.406	3.515	4.164	4.450

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	5.050	4.504	0.962	0.839	5.831	5.461	4.569	4.312	0.842	0.778
1951	5.309	4.933	1.011	0.932	6.129	5.765	4.794	4.594	0.893	0.845
1952	5.581	5.427	1.063	1.039	6.443	6.118	5.030	4.921	0.948	0.921
1953	5.867	5.992	1.117	1.161	6.772	6.524	5.277	5.296	1.006	1.008
1954	6.184	6.640	1.237	1.301	7.139	6.988	5.680	5.725	1.094	1.109
1955	6.624	7.381	1.390	1.461	7.648	7.516	6.215	6.214	1.210	1.223
1956	7.567	8.230	1.583	1.645	8.209	8.115	6.935	6.771	1.335	1.354
1957	8.571	9.202	1.787	1.856	8.758	8.793	7.685	7.403	1.463	1.504
1958	9.475	10.317	1.970	2.098	9.141	9.560	8.325	8.123	1.568	1.675
1959	11.784	11.594	2.300	2.377	9.619	10.426	8.568	8.939	1.766	1.871
1960	15.158	13.059	2.810	2.698	10.632	11.404	9.245	9.867	2.089	2.095
1961	17.963	14.741	3.555	3.067	12.403	12.509	10.591	10.922	2.606	2.352
1962	18.227	16.673	3.691	3.492	13.353	13.756	12.059	12.120	2.820	2.646
1963	20.349	18.894	4.122	3.983	15.172	15.165	13.891	13.482	3.168	2.983
1964	23.037	21.448	4.816	4.548	17.531	16.757	16.288	15.033	3.612	3.369
1965	23.162	24.390	5.099	5.202	19.092	18.557	16.952	16.798	3.810	3.813
1966	25.318	27.778	5.792	5.957	20.954	20.593	19.072	18.810	4.239	4.323
1967	29.768	31.687	6.691	6.830	23.057	22.898	21.585	21.104	4.873	4.910
1968	34.319	36.196	7.992	7.841	25.285	25.509	26.281	23.723	5.560	5.585
1969	42.561	41.403	8.848	9.011	29.433	28.469	25.217	26.713	6.311	6.363
1970	47.206	47.421	10.203	10.368	32.954	31.826	27.903	30.132	7.012	7.259

MICRO ECONOMIC MODEL FOR JAPAN

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	24.046	22.961	5.644	5.943	1.149	1.124	6.012	5.343	11.242	10.551
1951	25.279	24.327	5.938	6.092	1.205	1.166	6.320	5.866	11.816	11.204
1952	26.575	25.909	6.248	6.269	1.264	1.215	6.644	6.466	12.421	11.960
1953	27.937	27.728	6.573	6.476	1.324	1.271	6.984	7.153	13.055	12.828
1954	29.982	29.807	7.315	6.710	1.333	1.336	7.421	7.940	13.913	13.821
1955	32.707	32.175	8.263	6.971	1.357	1.409	8.014	8.842	15.073	14.953
1956	35.433	34.865	8.350	7.260	1.474	1.491	9.150	9.875	16.479	16.240
1957	38.158	37.916	8.303	7.575	1.592	1.582	10.358	11.058	17.906	17.700
1958	40.203	41.373	8.043	7.917	1.680	1.684	11.445	12.415	19.034	19.358
1959	43.610	45.287	7.801	8.283	1.772	1.796	14.084	13.971	19.953	21.236
1960	49.742	49.718	7.842	8.674	1.965	1.920	17.968	15.756	21.966	23.366
1961	57.919	54.736	8.582	9.088	2.218	2.058	21.518	17.808	25.600	25.782
1962	61.326	60.417	8.853	9.522	2.324	2.209	21.918	20.165	28.232	28.521
1963	68.140	66.854	9.041	9.972	2.398	2.375	24.471	22.876	32.231	31.629
1964	77.680	74.148	9.756	10.434	2.640	2.558	27.853	25.997	37.431	35.159
1965	81.087	82.422	10.175	10.903	2.797	2.758	28.261	29.591	39.854	39.168
1966	89.263	91.811	10.914	11.370	2.972	2.978	31.110	33.735	44.265	43.726
1967	101.529	102.475	12.498	11.827	3.056	3.218	36.459	38.517	49.514	48.912
1968	115.838	114.594	13.053	12.258	3.348	3.480	42.311	44.037	57.125	54.816
1969	130.146	128.377	13.922	12.649	3.852	3.766	51.409	50.415	60.960	61.544
1970	143.094	144.066	13.837	12.980	3.978	4.078	57.409	57.789	67.868	69.216

MICRO ECONOMIC MODEL FOR REST OF DEVELOPED

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	21.688	20.937	4.144	4.053	0.685	0.659	0.844	0.806	0.846	0.858
1951	22.049	21.754	4.198	4.125	0.698	0.692	0.859	0.849	0.861	0.889
1952	23.134	22.620	4.389	4.199	0.734	0.727	0.903	0.894	0.905	0.922
1953	23.351	23.538	4.414	4.276	0.743	0.765	0.913	0.943	0.915	0.956
1954	24.941	24.511	4.503	4.355	0.813	0.805	1.000	0.994	1.003	0.992
1955	25.845	25.543	4.448	4.436	0.863	0.847	1.062	1.049	1.065	1.031
1956	26.748	26.639	4.504	4.521	0.896	0.893	1.104	1.108	1.106	1.072
1957	27.110	27.802	4.463	4.607	0.911	0.941	1.123	1.171	1.124	1.115
1958	28.773	29.039	4.629	4.697	0.970	0.993	1.197	1.238	1.197	1.161
1959	30.363	30.354	4.666	4.789	1.066	1.049	1.299	1.309	1.242	1.210
1960	31.231	31.754	4.576	4.883	1.141	1.108	1.373	1.386	1.255	1.261
1961	32.026	33.244	4.786	4.980	1.160	1.171	1.509	1.469	1.323	1.316
1962	33.761	34.833	4.956	5.079	1.199	1.239	1.553	1.556	1.455	1.375
1963	36.147	36.526	5.136	5.161	1.309	1.312	1.641	1.651	1.464	1.437
1964	38.641	38.333	5.182	5.284	1.391	1.390	1.770	1.752	1.511	1.503
1965	40.340	40.262	5.039	5.390	1.464	1.473	1.941	1.861	1.565	1.574
1966	42.291	42.324	5.608	5.497	1.582	1.563	2.022	1.978	1.713	1.649
1967	44.171	44.529	5.646	5.606	1.612	1.660	2.120	2.104	1.710	1.729
1968	47.063	46.888	6.072	5.717	1.770	1.764	2.212	2.240	1.737	1.815
1969	50.316	49.414	6.119	5.828	1.902	1.876	2.345	2.386	1.807	1.906
1970	52.774	52.122	6.012	5.940	1.995	1.996	2.460	2.544	1.900	2.004

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	3.977	3.833	1.438	1.275	5.105	4.931	3.821	3.753	0.828	0.768
1951	4.052	4.024	1.415	1.333	5.215	5.138	3.904	3.893	0.846	0.810
1952	4.261	4.228	1.435	1.394	5.498	5.358	4.116	4.042	0.891	0.856
1953	4.311	4.444	1.399	1.459	5.577	5.592	4.176	4.200	0.904	0.904
1954	4.719	4.675	1.520	1.528	5.956	5.840	4.460	4.366	0.965	0.955
1955	5.009	4.921	1.603	1.602	6.172	6.103	4.621	4.543	1.000	1.010
1956	5.204	5.183	1.660	1.680	6.423	6.383	4.809	4.731	1.041	1.068
1957	5.295	5.462	1.684	1.763	6.546	6.681	4.901	4.929	1.062	1.131
1958	5.642	5.761	1.789	1.852	6.985	6.998	5.230	5.141	1.134	1.198
1959	6.196	6.080	1.900	1.947	7.321	7.336	5.454	5.365	1.219	1.269
1960	6.619	6.422	1.966	2.048	7.479	7.696	5.544	5.603	1.277	1.346
1961	6.599	6.786	1.983	2.156	7.672	8.080	5.609	5.857	1.387	1.428
1962	6.951	7.178	2.097	2.272	8.133	8.490	5.888	6.127	1.529	1.516
1963	7.519	7.596	2.321	2.395	8.798	8.927	6.286	6.415	1.674	1.611
1964	8.234	8.046	2.604	2.528	9.440	9.395	6.735	6.722	1.774	1.713
1965	8.811	8.528	2.840	2.669	9.925	9.896	6.895	7.049	1.860	1.822
1966	8.941	9.046	2.885	2.821	10.447	10.432	7.148	7.398	1.946	1.939
1967	9.546	9.602	3.022	2.984	10.964	11.005	7.549	7.771	2.001	2.066
1968	10.012	10.201	3.196	3.160	11.825	11.621	8.082	8.169	2.156	2.202
1969	10.919	10.845	3.422	3.348	12.439	12.280	8.952	8.596	2.410	2.349
1970	11.459	11.539	3.626	3.550	13.233	12.989	9.522	9.052	2.565	2.507

MICRO ECONOMIC MODEL FOR REST OF DEVELOPED

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	21.688	20.937	4.990	4.911	1.529	1.465	5.415	5.108	9.754	9.452
1951	22.049	21.754	5.059	5.014	1.557	1.541	5.467	5.357	9.965	9.842
1952	23.134	22.620	5.294	5.120	1.637	1.621	5.696	5.621	10.505	10.256
1953	23.351	23.538	5.329	5.231	1.656	1.707	5.710	5.903	10.657	10.695
1954	24.941	24.511	5.506	5.347	1.813	1.799	6.239	6.203	11.381	11.161
1955	25.845	25.543	5.513	5.467	1.925	1.897	6.612	6.522	11.793	11.656
1956	26.748	26.639	5.610	5.592	2.000	2.001	6.864	6.863	12.273	12.182
1957	27.110	27.802	5.587	5.722	2.034	2.112	6.979	7.226	12.509	12.741
1958	28.773	29.039	5.826	5.858	2.167	2.231	7.431	7.613	13.349	13.337
1959	30.363	30.354	5.908	5.998	2.365	2.358	8.096	8.027	13.994	13.970
1960	31.231	31.754	5.831	6.144	2.514	2.494	8.585	8.470	14.300	14.646
1961	32.026	33.244	6.109	6.296	2.669	2.639	8.582	8.943	14.668	15.365
1962	33.761	34.833	6.411	6.454	2.752	2.795	9.048	9.449	15.550	16.134
1963	36.147	36.526	6.600	6.617	2.950	2.962	9.840	9.992	16.758	16.953
1964	38.641	38.333	6.693	6.787	3.161	3.142	10.838	10.573	17.949	17.830
1965	40.340	40.262	6.604	6.964	3.405	3.334	11.651	11.197	18.680	18.766
1966	42.291	42.324	7.321	7.146	3.604	3.542	11.826	11.867	19.541	19.769
1967	44.171	44.529	7.356	7.336	3.732	3.764	12.568	12.587	20.514	20.842
1968	47.063	46.888	7.809	7.531	3.982	4.004	13.208	13.360	22.063	21.992
1969	50.316	49.414	7.926	7.734	4.247	4.262	14.341	14.193	23.801	23.225
1970	52.774	52.122	7.912	7.944	4.455	4.540	15.085	15.089	25.320	24.549

MICRO ECONOMIC MODEL FOR E-EUR & USSR

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	103.860	116.067	41.544	42.367	2.181	2.158	5.297	5.348	7.997	9.089
1951	115.400	124.342	42.771	44.068	2.306	2.312	5.764	5.765	8.992	9.702
1952	124.055	133.215	42.178	45.800	2.357	2.477	6.079	6.214	9.800	10.357
1953	132.711	142.732	42.600	47.558	2.521	2.653	6.104	6.698	10.617	11.057
1954	147.135	152.939	44.773	49.336	2.798	2.842	6.628	7.220	11.488	11.806
1955	164.445	163.891	51.142	51.130	2.960	3.046	7.071	7.783	12.333	12.605
1956	175.984	175.633	52.267	52.931	2.992	3.263	7.919	8.390	13.199	13.459
1957	193.295	188.232	55.668	54.730	3.286	3.497	8.698	9.046	14.497	14.373
1958	210.605	201.746	58.070	56.520	3.577	3.748	9.678	9.752	15.990	15.348
1959	230.801	216.244	59.547	58.287	3.924	4.016	10.617	10.514	17.310	16.391
1960	248.109	231.801	63.516	60.021	4.218	4.305	11.909	11.335	18.608	17.505
1961	265.422	248.490	65.028	61.706	4.778	4.614	13.271	12.222	19.641	18.697
1962	276.961	266.398	63.979	63.327	5.262	4.946	13.848	13.177	21.049	19.970
1963	288.500	285.617	60.295	64.865	5.481	5.302	15.002	14.209	22.215	21.331
1964	314.465	306.234	69.810	66.299	5.660	5.684	16.352	15.321	23.585	22.765
1965	331.773	328.363	67.350	67.606	6.304	6.094	17.252	16.521	25.546	24.340
1966	360.625	352.105	73.927	68.760	6.852	6.534	18.752	17.814	27.047	26.002
1967	389.477	377.582	74.390	69.729	7.789	7.005	19.863	19.210	28.821	27.778
1968	415.441	404.930	75.193	70.483	7.893	7.512	21.187	20.716	29.911	29.677
1969	435.637	434.285	72.314	70.986	8.277	8.055	22.653	22.340	31.365	31.708
1970	473.141	465.789	77.122	71.194	8.990	8.639	24.130	24.092	33.593	33.878

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	24.927	29.649	7.062	8.816	14.852	18.639	0.000	0.000	0.000	0.000
1951	29.744	33.120	8.531	9.556	17.293	19.817	0.000	0.000	0.000	0.000
1952	34.611	36.937	9.676	10.358	19.352	21.071	0.000	0.000	0.000	0.000
1953	39.150	41.134	10.484	11.226	21.234	22.404	0.000	0.000	0.000	0.000
1954	45.657	45.745	11.930	12.167	23.859	23.821	0.000	0.000	0.000	0.000
1955	51.964	50.810	12.498	13.185	26.476	25.330	0.000	0.000	0.000	0.000
1956	56.490	56.367	14.254	14.288	28.861	26.932	0.000	0.000	0.000	0.000
1957	63.398	62.466	16.043	15.462	31.699	28.637	0.000	0.000	0.000	0.000
1958	71.112	69.152	18.304	16.775	33.474	30.449	0.000	0.000	0.000	0.000
1959	80.317	76.481	20.542	18.175	38.543	32.377	0.000	0.000	0.000	0.000
1960	91.056	84.515	23.818	19.691	34.983	34.426	0.000	0.000	0.000	0.000
1961	100.592	93.312	24.418	21.332	37.690	36.605	0.000	0.000	0.000	0.000
1962	109.677	102.943	24.649	23.108	38.498	38.921	0.000	0.000	0.000	0.000
1963	119.727	113.488	25.388	25.033	40.390	41.385	0.000	0.000	0.000	0.000
1964	128.299	125.023	27.358	27.115	43.396	44.002	0.000	0.000	0.000	0.000
1965	140.006	137.643	29.196	29.370	46.116	46.785	0.000	0.000	0.000	0.000
1966	153.986	151.438	31.374	31.810	48.684	49.743	0.000	0.000	0.000	0.000
1967	170.199	166.516	34.663	34.451	53.747	52.887	0.000	0.000	0.000	0.000
1968	185.699	182.996	37.389	37.310	58.161	56.229	0.000	0.000	0.000	0.000
1969	200.391	201.004	39.207	40.405	61.424	59.781	0.000	0.000	0.000	0.000
1970	220.484	220.668	43.528	43.755	65.293	63.556	0.000	0.000	0.000	0.000

MICRO ECONOMIC MODEL FOR E-EUR & USSR

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	103.860	116.067	49.541	51.456	7.478	7.507	31.989	38.465	14.852	18.639
1951	115.400	124.342	51.763	53.771	8.070	8.077	38.275	42.676	17.293	19.817
1952	124.055	133.215	51.978	56.157	8.436	8.690	44.287	47.295	19.352	21.071
1953	132.711	142.732	53.217	58.615	8.625	9.351	49.634	52.360	21.234	22.404
1954	147.135	152.939	56.261	61.143	9.426	10.062	57.587	57.911	23.859	23.821
1955	164.445	163.891	63.475	63.736	10.031	10.829	64.462	63.994	26.476	25.330
1956	175.984	175.633	65.466	66.391	10.911	11.654	70.744	70.654	28.861	26.932
1957	193.295	188.232	70.164	69.104	11.984	12.542	79.440	77.947	31.699	28.637
1958	210.605	201.746	74.060	71.868	13.255	13.499	89.416	85.927	33.874	30.449
1959	230.801	216.244	76.856	74.679	14.541	14.530	100.859	94.656	38.543	32.377
1960	248.109	231.801	82.124	77.527	16.127	15.640	114.873	104.205	34.983	34.426
1961	265.422	248.490	84.669	80.403	18.049	16.835	125.010	114.644	37.690	36.605
1962	276.961	266.398	85.027	83.297	19.110	18.123	134.324	126.053	38.498	38.921
1963	288.500	285.617	82.510	86.195	20.483	19.510	145.113	138.521	40.390	41.385
1964	314.465	306.234	93.395	89.084	22.012	21.004	155.656	152.139	43.396	44.002
1965	331.773	328.363	92.896	91.947	23.556	22.614	169.201	167.012	46.116	46.785
1966	360.625	352.105	100.974	94.762	25.604	24.348	185.359	183.246	48.684	49.743
1967	389.477	377.582	103.210	97.508	27.652	26.215	204.861	200.965	53.747	52.887
1968	415.441	404.930	105.104	100.161	29.080	28.227	223.088	220.305	58.161	54.229
1969	435.637	434.285	103.679	102.694	30.930	30.395	239.598	241.406	61.424	59.781
1970	473.141	465.789	110.715	105.071	33.120	32.730	264.012	264.426	65.293	63.556

MICRO ECONOMIC MODEL FOR LATIN AMERICA

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	41.964	42.974	9.666	9.898	0.856	0.945	2.069	2.131	2.346	2.418
1951	44.385	44.861	9.953	10.156	0.914	0.967	2.202	2.227	2.499	2.541
1952	45.999	46.874	9.989	10.427	0.943	0.991	2.268	2.329	2.572	2.674
1953	47.613	49.023	10.584	10.711	0.981	1.015	2.362	2.439	2.676	2.816
1954	51.648	51.328	11.220	11.011	1.059	1.041	2.552	2.555	2.888	2.968
1955	54.876	53.778	11.921	11.326	1.120	1.067	2.706	2.681	3.145	3.131
1956	57.297	56.409	11.698	11.657	1.204	1.095	2.912	2.815	3.387	3.306
1957	60.525	59.231	12.145	12.007	1.277	1.125	3.100	2.958	3.602	3.495
1958	64.560	62.259	12.900	12.375	1.317	1.155	3.409	3.113	3.880	3.698
1959	66.174	65.512	13.285	12.763	1.344	1.188	3.396	3.279	4.104	3.917
1960	70.209	69.010	13.046	13.172	1.187	1.221	3.370	3.458	4.409	4.153
1961	75.051	72.778	13.683	13.604	1.231	1.257	3.633	3.650	4.646	4.408
1962	78.279	76.840	14.236	14.061	1.245	1.294	3.868	3.858	4.894	4.684
1963	80.700	81.225	14.445	14.542	1.178	1.333	4.108	4.082	5.003	4.984
1964	87.156	85.963	15.072	15.051	1.334	1.374	4.393	4.325	5.370	5.308
1965	91.998	91.093	16.138	15.590	1.362	1.416	4.545	4.588	5.668	5.660
1966	96.033	96.649	16.071	16.160	1.460	1.461	4.669	4.872	6.090	6.043
1967	100.068	102.682	16.606	16.763	1.460	1.508	5.109	5.182	6.329	6.461
1968	106.524	109.235	16.894	17.402	1.450	1.558	5.383	5.518	6.640	6.916
1969	113.787	116.369	17.516	18.079	1.639	1.609	5.839	5.885	7.068	7.413
1970	121.050	124.142	18.320	18.797	1.707	1.664	6.224	6.284	7.495	7.957

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	4.978	4.744	1.456	1.493	8.764	9.009	9.074	9.428	2.753	2.906
1951	5.301	5.106	1.580	1.561	9.336	9.463	9.664	9.834	2.934	3.004
1952	5.462	5.495	1.638	1.633	9.842	9.949	10.192	10.267	3.092	3.108
1953	5.675	5.915	1.690	1.710	10.065	10.469	10.417	10.729	3.161	3.217
1954	6.132	6.367	1.746	1.793	11.086	11.027	11.478	11.223	3.487	3.334
1955	6.680	6.856	1.861	1.881	11.767	11.625	12.119	11.751	3.557	3.458
1956	7.199	7.384	2.029	1.976	12.380	12.268	12.747	12.317	3.743	3.589
1957	7.653	7.956	2.180	2.078	13.107	12.959	13.495	12.922	3.966	3.730
1958	8.594	8.575	2.311	2.187	13.597	13.703	14.314	13.572	4.235	3.879
1959	9.360	9.247	2.218	2.305	14.391	14.505	14.059	14.270	4.018	4.038
1960	10.539	9.976	2.584	2.431	16.894	15.369	14.303	15.020	3.876	4.207
1961	11.439	10.770	2.710	2.568	16.970	16.304	16.317	15.827	4.421	4.389
1962	12.036	11.633	2.702	2.715	17.714	17.314	17.032	16.697	4.550	4.582
1963	12.307	12.575	2.744	2.874	18.666	18.408	17.633	17.636	4.616	4.790
1964	14.078	13.602	3.025	3.046	20.146	19.595	18.821	18.650	4.917	5.012
1965	15.043	14.725	3.009	3.232	21.272	20.883	19.735	19.747	5.226	5.250
1966	16.081	15.953	3.295	3.434	22.229	22.284	20.721	20.934	5.418	5.506
1967	16.456	17.300	3.589	3.654	23.375	23.809	21.495	22.223	5.649	5.781
1968	18.333	18.777	3.922	3.892	24.750	25.471	23.087	23.622	6.065	6.077
1969	20.121	20.401	4.200	4.152	26.096	27.287	24.868	25.145	6.442	6.397
1970	21.565	22.188	4.516	4.436	27.752	29.272	26.639	26.803	6.829	6.741

MICRO ECONOMIC MODEL FOR LATIN AMERICA

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	41.964	42.974	12.012	12.316	2.925	3.076	6.434	6.237	20.591	21.343
1951	44.385	44.861	12.452	12.698	3.116	3.194	6.881	6.666	21.934	22.301
1952	45.999	46.874	12.561	13.101	3.211	3.320	7.100	7.128	23.126	23.324
1953	47.613	49.023	13.260	13.527	3.343	3.454	7.365	7.625	23.643	24.416
1954	51.648	51.320	14.108	13.979	3.611	3.596	7.878	8.160	26.051	25.584
1955	54.976	53.778	15.066	14.457	3.826	3.748	8.541	8.737	27.443	26.835
1956	57.297	56.409	15.085	14.964	4.116	3.910	9.228	9.360	28.870	28.174
1957	60.525	59.231	15.747	15.502	4.377	4.083	9.833	10.034	30.568	29.611
1958	64.560	62.259	16.780	16.073	4.726	4.268	10.905	10.763	32.146	31.153
1959	66.174	65.512	17.389	16.680	4.748	4.467	11.578	11.552	32.468	32.812
1960	70.209	69.010	17.455	17.325	4.557	4.679	13.123	12.408	35.073	34.596
1961	75.051	72.778	18.329	18.013	4.864	4.907	14.149	13.334	37.708	36.520
1962	78.279	76.840	19.130	18.745	5.113	5.152	14.738	14.349	39.296	38.593
1963	80.700	81.225	19.448	19.526	5.286	5.415	15.051	15.449	40.915	40.834
1964	87.156	85.963	20.442	20.360	5.727	5.698	17.103	16.648	43.884	43.256
1965	91.998	91.093	21.806	21.251	5.907	6.004	18.052	17.957	46.232	45.880
1966	96.033	96.649	22.161	22.204	6.129	6.334	19.376	19.388	48.368	48.723
1967	100.068	102.682	22.935	23.225	6.569	6.690	20.045	20.954	50.519	51.813
1968	106.524	109.235	23.534	24.318	6.833	7.076	22.255	22.670	53.902	55.171
1969	113.787	116.369	24.584	25.493	7.478	7.494	24.321	24.554	57.406	58.828
1970	121.050	124.142	25.815	26.755	7.931	7.948	26.081	26.624	61.219	62.814

MICRO ECONOMIC MODEL FOR MIDDLE EAST

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	14.750	13.245	4.130	3.711	1.844	1.695	0.000	0.000	0.000	0.000
1951	15.400	14.058	4.231	3.865	2.077	1.926	0.000	0.000	0.000	0.000
1952	16.100	14.919	4.339	4.025	2.331	2.178	0.000	0.000	0.000	0.000
1953	16.800	15.831	4.440	4.188	2.598	2.453	0.000	0.000	0.000	0.000
1954	17.500	16.796	4.533	4.356	2.879	2.754	0.000	0.000	0.000	0.000
1955	18.323	17.818	4.650	4.529	3.195	3.081	0.000	0.000	0.000	0.000
1956	19.050	18.900	4.735	4.706	3.510	3.438	0.000	0.000	0.000	0.000
1957	19.400	20.045	4.720	4.887	3.766	3.827	0.000	0.000	0.000	0.000
1958	20.882	21.257	4.971	5.072	4.260	4.249	0.000	0.000	0.000	0.000
1959	21.610	22.540	5.031	5.261	4.622	4.708	0.000	0.000	0.000	0.000
1960	22.742	23.897	5.176	5.453	5.089	5.206	0.000	0.000	0.000	0.000
1961	23.900	25.333	5.200	5.649	5.458	5.747	0.000	0.000	0.000	0.000
1962	25.571	26.853	5.758	5.849	5.768	6.333	0.000	0.000	0.000	0.000
1963	26.945	28.460	5.781	6.051	6.417	6.968	0.000	0.000	0.000	0.000
1964	29.397	30.161	6.331	6.256	7.371	7.655	0.000	0.000	0.000	0.000
1965	32.065	31.961	6.628	6.463	8.356	8.399	0.000	0.000	0.000	0.000
1966	33.493	33.864	6.350	6.672	9.248	9.203	0.000	0.000	0.000	0.000
1967	35.244	35.877	6.749	6.882	9.600	10.073	0.000	0.000	0.000	0.000
1968	39.043	38.007	7.255	7.093	11.390	11.012	0.000	0.000	0.000	0.000
1969	42.384	40.259	7.537	7.304	12.949	12.027	0.000	0.000	0.000	0.000
1970	0.000	42.641	0.000	7.515	0.000	13.121	0.000	0.000	0.000	0.000

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	1.622	1.472	0.693	0.592	3.540	3.169	2.006	1.776	0.914	0.830
1951	1.693	1.560	0.716	0.630	3.693	3.363	2.049	1.847	0.940	0.866
1952	1.770	1.653	0.741	0.670	3.857	3.569	2.095	1.921	0.968	0.903
1953	1.846	1.751	0.765	0.713	4.021	3.787	2.136	1.997	0.995	0.941
1954	1.922	1.855	0.788	0.758	4.184	4.018	2.173	2.074	1.020	0.981
1955	2.012	1.965	0.816	0.807	4.377	4.262	2.222	2.153	1.051	1.021
1956	2.091	2.081	0.839	0.858	4.547	4.521	2.253	2.234	1.075	1.063
1957	2.128	2.203	0.845	0.912	4.626	4.794	2.238	2.316	1.076	1.106
1958	2.290	2.333	0.900	0.970	4.974	5.084	2.347	2.400	1.139	1.150
1959	2.369	2.469	0.920	1.031	5.143	5.391	2.365	2.485	1.159	1.195
1960	2.492	2.614	0.957	1.096	5.407	5.715	2.422	2.571	1.198	1.241
1961	2.704	2.766	1.144	1.165	5.666	6.058	2.472	2.659	1.254	1.289
1962	2.999	2.927	1.190	1.238	6.018	6.421	2.546	2.747	1.292	1.337
1963	3.036	3.097	1.309	1.316	6.503	6.805	2.557	2.836	1.342	1.387
1964	3.201	3.277	1.334	1.398	7.124	7.212	2.666	2.926	1.378	1.437
1965	3.351	3.467	1.558	1.485	7.827	7.642	2.905	3.016	1.440	1.489
1966	3.520	3.667	1.589	1.578	8.231	8.096	3.058	3.106	1.496	1.541
1967	3.905	3.879	1.741	1.676	8.494	8.577	3.161	3.196	1.593	1.594
1968	4.076	4.102	1.865	1.780	9.086	9.086	3.688	3.285	1.683	1.648
1969	4.443	4.338	1.891	1.890	9.984	9.624	3.815	3.373	1.764	1.703
1970	0.000	4.587	0.000	2.007	0.000	10.193	0.000	3.460	0.000	1.758

MICRO ECONOMIC MODEL FOR MIDDLE EAST

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	14.750	13.245	4.130	3.711	1.844	1.695	2.315	2.064	6.460	5.775
1951	15.400	14.058	4.231	3.865	2.077	1.926	2.409	2.190	6.682	6.077
1952	16.100	14.919	4.339	4.025	2.331	2.178	2.511	2.323	6.920	6.393
1953	16.800	15.831	4.440	4.188	2.598	2.453	2.611	2.464	7.152	6.725
1954	17.500	16.796	4.533	4.356	2.879	2.754	2.710	2.613	7.377	7.072
1955	18.323	17.818	4.650	4.529	3.195	3.081	2.828	2.771	7.650	7.436
1956	19.050	18.900	4.735	4.706	3.510	3.438	2.930	2.939	7.875	7.817
1957	19.400	20.045	4.720	4.887	3.766	3.827	2.973	3.115	7.940	8.216
1958	20.882	21.257	4.971	5.072	4.260	4.249	3.190	3.303	8.460	8.633
1959	21.610	22.540	5.031	5.261	4.622	4.708	3.289	3.500	8.667	9.070
1960	22.742	23.897	5.176	5.453	5.089	5.206	3.449	3.710	9.027	9.527
1961	23.900	25.333	5.200	5.649	5.458	5.747	3.848	3.931	9.392	10.005
1962	25.571	26.853	5.758	5.849	5.768	6.333	4.189	4.165	9.856	10.506
1963	26.945	28.460	5.781	6.051	6.417	6.968	4.345	4.413	10.402	11.028
1964	29.397	30.161	6.331	6.256	7.371	7.655	4.535	4.675	11.160	11.575
1965	32.065	31.961	6.628	6.463	8.356	8.399	4.909	4.952	12.172	12.146
1966	33.493	33.864	6.350	6.672	9.248	9.203	5.109	5.245	12.785	12.743
1967	35.244	35.877	6.749	6.882	9.600	10.073	5.646	5.554	13.248	13.367
1968	39.043	38.007	7.255	7.093	11.390	11.012	5.941	5.882	14.457	14.019
1969	42.384	40.259	7.537	7.304	12.949	12.027	6.334	6.228	15.563	14.699
1970	0.000	42.641	25.815	7.515	7.931	13.121	26.081	6.594	61.219	15.410

MICRO ECONOMIC MODEL IR MAIN AFRICA

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	10.600	10.735	6.360	6.500	0.318	0.278	0.000	0.000	0.159	0.157
1951	11.172	11.267	6.620	6.728	0.349	0.314	0.000	0.000	0.178	0.176
1952	11.776	11.832	6.891	6.967	0.382	0.354	0.000	0.000	0.198	0.197
1953	12.412	12.433	7.171	7.216	0.417	0.397	0.000	0.000	0.220	0.219
1954	13.082	13.072	7.461	7.478	0.455	0.444	0.000	0.000	0.244	0.243
1955	13.788	13.752	7.761	7.751	0.496	0.495	0.000	0.000	0.270	0.269
1956	14.533	14.476	8.073	8.038	0.541	0.550	0.000	0.000	0.298	0.297
1957	15.318	15.247	8.395	8.338	0.588	0.610	0.000	0.000	0.328	0.328
1958	16.134	16.070	8.723	8.654	0.639	0.675	0.000	0.000	0.361	0.362
1959	17.244	16.947	9.195	8.984	0.704	0.746	0.000	0.000	0.401	0.398
1960	18.858	17.884	9.915	9.331	0.792	0.824	0.000	0.000	0.456	0.438
1961	19.172	18.884	9.941	9.694	0.845	0.908	0.000	0.000	0.485	0.481
1962	19.884	19.953	10.173	10.076	0.879	1.000	0.000	0.000	0.529	0.527
1963	20.953	21.097	10.686	10.477	0.932	1.100	0.000	0.000	0.549	0.578
1964	22.336	22.321	11.198	10.898	1.153	1.208	0.000	0.000	0.619	0.634
1965	23.572	23.632	11.331	11.339	1.339	1.327	0.000	0.000	0.688	0.694
1966	24.766	25.036	11.630	11.803	1.724	1.457	0.000	0.000	0.728	0.760
1967	26.443	26.542	12.213	12.291	1.560	1.598	0.000	0.000	0.865	0.832
1968	27.658	28.159	12.337	12.804	1.712	1.752	0.000	0.000	0.932	0.910
1969	29.690	29.895	12.679	13.342	2.174	1.920	0.000	0.000	0.989	0.995
1970	0.000	31.760	0.000	13.909	0.000	2.104	0.000	0.000	0.000	1.089

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	0.159	0.163	0.519	0.531	1.738	1.741	1.060	1.071	0.286	0.293
1951	0.196	0.199	0.548	0.557	1.845	1.844	1.135	1.141	0.302	0.307
1952	0.236	0.238	0.579	0.585	1.957	1.953	1.214	1.217	0.318	0.322
1953	0.281	0.281	0.612	0.614	2.077	2.070	1.299	1.298	0.335	0.337
1954	0.329	0.328	0.646	0.645	2.204	2.195	1.390	1.386	0.353	0.354
1955	0.382	0.379	0.682	0.678	2.338	2.328	1.486	1.479	0.372	0.372
1956	0.439	0.435	0.720	0.713	2.480	2.472	1.589	1.580	0.392	0.391
1957	0.502	0.496	0.760	0.751	2.631	2.625	1.699	1.688	0.414	0.411
1958	0.570	0.563	0.802	0.791	2.789	2.789	1.815	1.804	0.436	0.432
1959	0.653	0.635	0.859	0.834	3.000	2.966	1.967	1.929	0.466	0.455
1960	0.762	0.715	0.941	0.879	3.302	3.155	2.180	2.064	0.509	0.479
1961	0.824	0.802	0.926	0.928	3.401	3.358	2.239	2.209	0.510	0.505
1962	0.901	0.896	0.970	0.980	3.567	3.576	2.334	2.365	0.531	0.532
1963	0.943	1.000	1.058	1.035	3.713	3.812	2.495	2.534	0.576	0.562
1964	1.083	1.114	1.041	1.095	3.945	4.064	2.656	2.715	0.641	0.593
1965	1.242	1.238	1.181	1.158	4.260	4.337	2.909	2.912	0.622	0.627
1966	1.342	1.373	1.233	1.226	4.443	4.630	3.026	3.124	0.639	0.662
1967	1.536	1.521	1.285	1.299	4.982	4.946	3.316	3.354	0.685	0.701
1968	1.707	1.684	1.325	1.377	5.330	5.287	3.601	3.602	0.714	0.742
1969	1.826	1.862	1.455	1.461	5.855	5.656	3.952	3.871	0.760	0.786
1970	0.000	2.057	0.000	1.552	0.000	6.053	0.000	4.162	0.000	0.834

MICRO ECONOMIC MODEL FOR MAIN AFRICA

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	10.600	10.735	6.519	6.658	0.318	0.278	0.678	0.694	3.084	3.105
1951	11.172	11.267	6.798	6.905	0.349	0.314	0.744	0.756	3.282	3.292
1952	11.776	11.832	7.089	7.163	0.382	0.354	0.815	0.823	3.489	3.492
1953	12.412	12.433	7.391	7.435	0.417	0.397	0.893	0.895	3.711	3.706
1954	13.082	13.072	7.705	7.720	0.455	0.444	0.975	0.973	3.947	3.935
1955	13.788	13.752	8.031	8.020	0.496	0.495	1.064	1.057	4.196	4.179
1956	14.533	14.476	8.371	8.335	0.541	0.550	1.159	1.148	4.461	4.442
1957	15.318	15.247	8.723	8.667	0.588	0.610	1.262	1.247	4.744	4.723
1958	16.134	16.070	9.084	9.015	0.639	0.675	1.372	1.354	5.040	5.025
1959	17.244	16.947	9.596	9.382	0.704	0.746	1.512	1.469	5.433	5.349
1960	18.858	17.884	10.371	9.768	0.792	0.824	1.703	1.594	5.991	5.697
1961	19.172	18.884	10.426	10.175	0.845	0.908	1.750	1.729	6.150	6.071
1962	19.884	19.953	10.702	10.603	0.879	1.000	1.871	1.876	6.432	6.474
1963	20.953	21.097	11.235	11.055	0.932	1.100	2.001	2.035	6.784	6.907
1964	22.336	22.321	11.817	11.531	1.153	1.208	2.124	2.208	7.242	7.373
1965	23.572	23.632	12.019	12.034	1.339	1.327	2.423	2.396	7.791	7.875
1966	24.766	25.036	12.358	12.563	1.724	1.457	2.575	2.599	8.108	8.416
1967	26.443	26.542	13.078	13.123	1.560	1.598	2.821	2.821	8.983	9.000
1968	27.658	28.159	13.269	13.714	1.712	1.752	3.032	3.061	9.645	9.631
1969	29.690	29.895	13.668	14.338	2.174	1.920	3.281	3.323	10.567	10.313
1970	0.000	31.760	25.815	14.997	7.931	2.104	26.081	3.608	61.219	11.049

MICRO ECONOMIC MODEL FOR SOUTH EAST ASIA

	GROSS REG. PROD.		AGRICULTURE		MINING		ENERGY		FOOD	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	51.625	52.966	26.695	27.683	0.145	0.118	0.516	0.499	1.254	1.324
1951	53.375	54.753	26.891	28.274	0.155	0.130	0.561	0.536	1.372	1.395
1952	55.125	56.652	27.800	28.899	0.160	0.143	0.584	0.576	1.423	1.470
1953	59.500	58.667	30.322	29.559	0.173	0.158	0.625	0.618	1.523	1.551
1954	61.250	60.806	30.938	30.254	0.184	0.173	0.662	0.664	1.611	1.636
1955	63.000	63.072	30.886	30.986	0.176	0.189	0.712	0.712	1.745	1.728
1956	66.500	65.473	32.278	31.754	0.200	0.206	0.778	0.764	1.916	1.825
1957	67.375	68.014	31.676	32.560	0.209	0.225	0.829	0.819	2.028	1.928
1958	70.000	70.704	33.827	33.404	0.210	0.245	0.889	0.878	2.150	2.038
1959	72.625	73.549	34.286	34.287	0.218	0.266	0.908	0.940	2.172	2.155
1960	77.000	76.558	36.421	35.208	0.223	0.289	0.924	1.007	2.172	2.260
1961	80.500	79.739	37.573	36.171	0.250	0.313	0.998	1.079	2.375	2.413
1962	83.125	83.102	37.297	37.175	0.424	0.339	1.006	1.156	2.528	2.554
1963	87.500	86.655	38.369	38.221	0.315	0.367	1.199	1.238	2.625	2.705
1964	92.750	90.409	40.776	39.309	0.334	0.397	1.290	1.325	2.830	2.865
1965	92.750	94.376	38.392	40.441	0.399	0.429	1.447	1.418	3.043	3.036
1966	96.250	98.568	39.309	41.619	0.462	0.464	1.569	1.518	3.205	3.218
1967	103.250	102.997	43.033	42.843	0.558	0.501	1.683	1.625	3.491	3.412
1968	106.750	107.676	43.217	44.113	0.598	0.540	1.794	1.739	3.566	3.619
1969	114.625	112.628	46.302	45.435	0.653	0.582	1.949	1.861	3.898	3.839
1970	120.750	117.840	48.254	46.797	0.688	0.628	2.090	1.991	4.167	4.073

	MANUFACTURING		CONSTRUCTION		SERVICES 1		SERVICES 2		DWELLINGS	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	4.130	4.186	1.564	1.518	8.647	8.692	6.117	6.227	2.555	2.718
1951	4.500	4.460	1.623	1.616	9.124	9.066	6.454	6.489	2.696	2.787
1952	4.670	4.752	1.643	1.720	9.406	9.464	6.661	6.768	2.779	2.859
1953	5.017	5.063	1.827	1.832	9.992	9.887	7.070	7.064	2.952	2.936
1954	5.293	5.395	1.856	1.950	10.341	10.338	7.315	7.379	3.051	3.017
1955	5.696	5.749	2.092	2.077	10.887	10.816	7.706	7.713	3.100	3.102
1956	6.252	6.127	2.315	2.212	11.420	11.324	8.088	8.068	3.252	3.192
1957	6.469	6.530	2.439	2.356	11.960	11.864	8.497	8.446	3.268	3.287
1958	6.575	6.959	2.367	2.509	11.861	12.438	8.781	8.846	3.340	3.386
1959	7.148	7.417	2.608	2.673	12.806	13.047	9.000	9.271	3.479	3.491
1960	7.702	7.906	2.803	2.848	13.355	13.694	9.434	9.723	3.766	3.601
1961	8.447	8.428	2.963	3.034	13.697	14.381	10.299	10.202	3.897	3.717
1962	9.320	8.985	3.076	3.233	14.592	15.110	10.900	10.711	3.982	3.838
1963	10.115	9.579	3.491	3.446	15.933	15.884	11.428	11.250	4.025	3.965
1964	10.818	10.214	3.785	3.672	16.774	16.706	12.024	11.823	4.119	4.098
1965	11.068	10.890	3.915	3.914	17.888	17.578	12.358	12.431	4.240	4.238
1966	11.656	11.613	4.206	4.172	18.672	18.505	12.898	13.076	4.274	4.384
1967	12.093	12.384	4.585	4.447	19.632	19.488	13.766	13.760	4.410	4.536
1968	12.929	13.208	4.836	4.741	20.786	20.533	14.487	14.487	4.537	4.696
1969	14.112	14.088	5.227	5.055	22.182	21.643	15.464	15.260	4.838	4.864
1970	15.110	15.026	5.266	5.390	23.590	22.819	16.439	16.077	5.146	5.039

MICRO ECONOMIC MODEL OR SOUTH EAST ASIA

	GROSS REG. PROD.		AGRICUL+FOOD		MINING+ENERGY		MANUFAC+CONSTRUC		SERVICES	
	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP	DATA	COMP
1950	51.625	52.966	27.949	29.007	0.661	0.616	5.694	5.704	17.319	17.637
1951	53.375	54.753	28.263	29.668	0.716	0.666	6.123	6.076	18.274	18.342
1952	55.125	56.652	29.223	30.369	0.744	0.719	6.313	6.473	18.846	19.090
1953	59.500	58.667	31.845	31.109	0.798	0.776	6.844	6.895	20.014	19.886
1954	61.250	60.806	32.549	31.891	0.846	0.836	7.149	7.346	20.707	20.732
1955	63.000	63.072	32.631	32.713	0.888	0.901	7.788	7.826	21.693	21.631
1956	66.500	65.473	34.193	33.578	0.978	0.970	8.567	8.339	22.760	22.584
1957	67.375	68.014	33.704	34.487	1.038	1.044	8.908	8.885	23.725	23.596
1958	70.000	70.704	35.977	35.441	1.099	1.122	8.942	9.469	23.982	24.670
1959	72.625	73.549	36.458	36.441	1.126	1.206	9.756	10.091	25.285	25.810
1960	77.000	76.558	38.793	37.488	1.147	1.296	10.505	10.754	26.555	27.019
1961	80.500	79.739	39.948	38.584	1.248	1.392	11.410	11.463	27.893	28.300
1962	83.125	83.102	39.825	39.729	1.430	1.495	12.396	12.218	29.474	29.659
1963	87.500	86.655	40.994	40.925	1.514	1.605	13.606	13.025	31.386	31.100
1964	92.750	90.409	43.605	42.173	1.624	1.722	14.603	13.885	32.917	32.627
1965	92.750	94.376	41.435	43.477	1.846	1.848	14.983	14.804	34.486	34.246
1966	96.250	98.568	42.514	44.836	2.031	1.982	15.862	15.785	35.844	35.964
1967	103.250	102.997	46.524	46.254	2.241	2.126	16.678	16.832	37.808	37.785
1968	106.750	107.676	46.783	47.730	2.392	2.279	17.765	17.949	39.810	39.716
1969	114.625	112.628	50.200	49.273	2.602	2.444	19.339	19.144	42.483	41.767
1970	120.750	117.840	52.421	50.870	2.778	2.619	20.376	20.416	45.175	43.935

4. Gross Outputs , Intermediate Demands and Inputs Computation

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

Z MATRIX=

	56.345	9.547
	27.289	438.633
Z VECTOR=	128.674	1052.828

A MATRIX=

	0.43789	0.00907
	0.21208	0.41662
COL SUM=	0.64996	0.42569

(1-A)-1=

	1.78944	0.02781
	0.65050	1.72421

AGRICULTURE

V=(-0.000807*T+0.0476046)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	19.679	46.726	33.729	27.048	12.997	0.081592	0.065428	413.391	413.375	0.004
1951	19.961	47.396	34.440	27.435	12.956	0.080741	0.064318	426.547	426.527	0.005
1952	20.252	48.085	35.180	27.834	12.905	0.079890	0.063209	440.355	440.340	0.004
1953	20.551	48.796	35.951	28.246	12.846	0.079038	0.062099	454.852	454.840	0.003
1954	20.860	49.529	36.754	28.670	12.775	0.078186	0.060988	470.082	470.063	0.004
1955	21.178	50.286	37.592	29.108	12.693	0.077333	0.059880	486.102	486.086	0.003
1956	21.506	51.064	38.467	29.559	12.597	0.076482	0.058770	502.957	502.938	0.004
1957	21.845	51.868	39.382	30.024	12.486	0.075631	0.057660	520.703	520.688	0.003
1958	22.193	52.696	40.336	30.503	12.360	0.074779	0.056550	539.398	539.375	0.004
1959	22.553	53.550	41.333	30.998	12.217	0.073926	0.055440	559.117	559.086	0.006
1960	22.924	54.432	42.378	31.508	12.054	0.073074	0.054332	579.922	579.898	0.004
1961	23.307	55.339	43.471	32.033	11.869	0.072223	0.053220	601.891	601.867	0.004
1962	23.702	56.277	44.616	32.577	11.661	0.071371	0.052112	625.125	625.102	0.004
1963	24.108	57.242	45.815	33.134	11.426	0.070518	0.051000	649.688	649.648	0.006
1964	24.528	58.239	47.075	33.711	11.164	0.069667	0.049891	675.703	675.680	0.003
1965	24.960	59.266	48.395	34.307	10.871	0.068814	0.048782	703.266	703.227	0.006
1966	25.406	60.325	49.783	34.919	10.542	0.067964	0.047671	732.492	732.453	0.005
1967	25.867	61.418	51.243	35.552	10.175	0.067112	0.046562	763.531	763.500	0.004
1968	26.340	62.542	52.777	36.203	9.765	0.066260	0.045452	796.508	796.477	0.004
1969	26.829	63.703	54.393	36.875	9.310	0.065408	0.044342	831.594	831.562	0 .4
1970	27.333	64.899	56.096	37.567	8.804	0.064556	0.043232	868.945	868.922	0 .3

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

MINING V=(0.000017*T+0.0062971)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	2.603	4.552	3.476	1.948	1.075	0.008409	0.004713	413.391	413.375	0.004
1951	2.693	4.709	3.586	2.016	1.123	0.008407	0.004726	426.547	426.527	0.005
1952	2.788	4.875	3.701	2.087	1.173	0.008405	0.004739	440.355	440.340	0.004
1953	2.887	5.049	3.822	2.161	1.226	0.008403	0.004751	454.852	454.840	0.003
1954	2.992	5.232	3.949	2.240	1.282	0.008402	0.004764	470.082	470.063	0.004
1955	3.102	5.424	4.083	2.322	1.341	0.008400	0.004777	486.102	486.086	0.003
1956	3.219	5.628	4.224	2.409	1.404	0.008398	0.004790	502.957	502.938	0.004
1957	3.341	5.842	4.372	2.501	1.470	0.008396	0.004802	520.703	520.688	0.003
1958	3.470	6.067	4.528	2.597	1.539	0.008395	0.004815	539.398	539.375	0.004
1959	3.607	6.306	4.693	2.699	1.613	0.008393	0.004828	559.117	559.086	0.006
1960	3.751	6.558	4.866	2.807	1.692	0.008391	0.004841	579.922	579.898	0.004
1961	3.903	6.824	5.049	2.921	1.775	0.008389	0.004853	601.891	601.867	0.004
1962	4.064	7.106	5.243	3.042	1.863	0.008388	0.004866	625.125	625.102	0.004
1963	4.235	7.405	5.448	3.170	1.957	0.008386	0.004879	649.688	649.648	0.006
1964	4.416	7.721	5.665	3.305	2.056	0.008384	0.004892	675.703	675.680	0.003
1965	4.608	8.057	5.895	3.449	2.162	0.008382	0.004904	703.266	703.227	0.006
1966	4.812	8.414	6.139	3.602	2.275	0.008381	0.004917	732.492	732.453	0.005
1967	5.029	8.793	6.398	3.764	2.396	0.008379	0.004930	763.531	763.500	0.004
1968	5.260	9.197	6.673	3.937	2.524	0.008377	0.004943	796.508	796.477	0.004
1969	5.506	9.627	6.965	4.121	2.662	0.008375	0.004955	831.594	831.562	0.004
1970	5.768	10.085	7.276	4.317	2.809	0.008374	0.004968	868.945	868.922	0.003

ENERGY V=(0.000295*T+0.0373063)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	15.422	27.835	21.499	12.413	6.336	0.052006	0.030027	413.391	413.375	0.004
1951	16.039	28.948	22.251	12.910	6.697	0.052166	0.030265	426.547	426.527	0.005
1952	16.688	30.120	23.042	13.432	7.078	0.052326	0.030503	440.355	440.340	0.004
1953	17.372	31.354	23.873	13.982	7.481	0.052485	0.030740	454.852	454.840	0.003
1954	18.092	32.654	24.748	14.562	7.906	0.052646	0.030977	470.082	470.063	0.004
1955	18.852	34.025	25.669	15.174	8.356	0.052806	0.031215	486.102	486.086	0.003
1956	19.654	35.474	26.640	15.820	8.834	0.052966	0.031453	502.957	502.938	0.004
1957	20.501	37.003	27.663	16.501	9.340	0.053125	0.031691	520.703	520.688	0.003
1958	21.396	38.618	28.742	17.222	9.876	0.053286	0.031928	539.398	539.375	0.004
1959	22.344	40.328	29.882	17.984	10.446	0.053445	0.032165	559.117	559.086	0.006
1960	23.347	42.138	31.087	18.792	11.051	0.053606	0.032403	579.922	579.898	0.004
1961	24.409	44.055	32.361	19.646	11.694	0.053765	0.032641	601.891	601.867	0.004
1962	25.536	46.089	33.710	20.553	12.378	0.053926	0.032878	625.125	625.102	0.004
1963	26.731	48.247	35.139	21.516	13.108	0.054085	0.033117	649.688	649.648	0.006
1964	28.000	50.538	36.654	22.537	13.884	0.054245	0.033354	675.703	675.680	0.003
1965	29.350	52.974	38.261	23.624	14.713	0.054404	0.033591	703.266	703.227	0.006
1966	30.786	55.566	39.969	24.780	15.597	0.054565	0.033829	732.492	732.453	0.005
1967	32.316	58.328	41.785	26.011	16.543	0.054725	0.034067	763.531	763.500	0.004
1968	33.947	61.271	43.716	27.324	17.555	0.054885	0.034305	796.508	796.477	0.004
1969	35.688	64.414	45.776	28.726	18.639	0.055046	0.034543	831.594	831.562	0.004
1970	37.548	67.770	47.970	30.222	19.800	0.055205	0.034780	868.945	868.922	0.003

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

FOOD

V=(-0.000293*T+0.0360284)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	14.894	50.820	14.364	35.928	36.456	0.034748	0.086909	413.391	413.375	0.004
1951	15.243	52.012	14.695	36.770	37.316	0.034451	0.086203	426.547	426.527	0.005
1952	15.607	53.256	15.041	37.649	38.216	0.034156	0.085497	440.355	440.340	0.004
1953	15.988	54.555	15.402	38.567	39.154	0.033861	0.084790	454.852	454.840	0.003
1954	16.386	55.912	15.778	39.527	40.134	0.033565	0.084085	470.082	470.063	0.004
1955	16.802	57.332	16.172	40.531	41.160	0.033269	0.083380	486.102	486.086	0.003
1956	17.237	58.817	16.584	41.581	42.233	0.032973	0.082672	502.957	502.938	0.004
1957	17.693	60.373	17.015	42.680	43.357	0.032678	0.081966	520.703	520.688	0.003
1958	18.170	62.000	17.466	43.831	44.535	0.032381	0.081259	539.398	539.375	0.004
1959	18.670	63.708	17.939	45.039	45.769	0.032084	0.080552	559.117	559.086	0.006
1960	19.195	65.499	18.435	46.305	47.064	0.031789	0.079846	579.922	579.898	0.004
1961	19.747	67.380	18.956	47.634	48.425	0.031493	0.079141	601.891	601.867	0.004
1962	20.326	69.356	19.502	49.031	49.854	0.031197	0.078434	625.125	625.102	0.004
1963	20.934	71.433	20.077	50.499	51.356	0.030902	0.077727	649.688	649.648	0.006
1964	21.575	73.618	20.681	52.044	52.938	0.030606	0.077022	675.703	675.680	0.003
1965	22.249	75.917	21.316	53.669	54.601	0.030310	0.076314	703.266	703.227	0.006
1966	22.959	78.342	21.986	55.384	56.356	0.030015	0.075610	732.492	732.453	0.005
1967	23.708	80.899	22.692	57.192	58.208	0.029719	0.074904	763.531	763.500	0.004
1968	24.499	83.598	23.436	59.100	60.162	0.029423	0.074198	796.508	796.477	0.004
1969	25.335	86.449	24.222	61.116	62.228	0.029128	0.073492	831.594	831.562	0.004
1970	26.219	89.464	25.053	63.247	64.411	0.028832	0.072785	868.945	868.922	0.003

MANUFACTURING

V=(0.000653*T+0.2418365)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	99.973	243.951	158.102	143.979	85.850	0.382450	0.348286	413.391	413.375	0.004
1951	103.433	252.395	162.969	148.963	89.426	0.382065	0.349228	426.547	426.527	0.005
1952	107.068	261.266	168.074	154.197	93.191	0.381676	0.350163	440.355	440.340	0.004
1953	110.891	270.590	173.432	159.703	97.160	0.381290	0.351109	454.852	454.840	0.003
1954	114.910	280.398	179.061	165.494	101.340	0.380913	0.352051	470.082	470.063	0.004
1955	119.144	290.730	184.973	171.590	105.758	0.380520	0.352989	486.102	486.086	0.003
1956	123.604	301.613	191.195	178.012	110.418	0.380142	0.353928	502.957	502.938	0.004
1957	128.305	313.086	197.740	184.783	115.348	0.379753	0.354870	520.703	520.688	0.003
1958	133.264	325.188	204.633	191.924	120.555	0.379372	0.355808	539.398	539.375	0.004
1959	138.500	337.965	211.900	199.467	126.056	0.378990	0.356750	559.117	559.086	0.006
1960	144.033	351.465	219.561	207.436	131.906	0.378601	0.357693	579.922	579.898	0.004
1961	149.881	365.734	227.645	215.859	138.090	0.378212	0.358635	601.891	601.867	0.004
1962	156.076	380.852	236.193	224.781	144.660	0.377831	0.359577	625.125	625.102	0.004
1963	162.629	396.844	245.221	234.219	151.625	0.377441	0.360508	649.688	649.648	0.006
1964	169.586	413.820	254.783	244.238	159.039	0.377064	0.361458	675.703	675.680	0.003
1965	176.961	431.816	264.906	254.859	166.910	0.376678	0.362392	703.266	703.227	0.006
1966	184.793	450.926	275.633	266.137	175.293	0.376293	0.363327	732.492	732.453	0.005
1967	193.125	471.258	287.020	278.141	184.238	0.375908	0.364281	763.531	763.500	0.004
1968	201.988	492.887	299.113	290.902	193.773	0.375530	0.365219	796.508	796.477	0.004
1969	211.426	515.914	311.961	304.496	203.953	0.375134	0.366158	831.594	831.562	0.004
1970	221.492	540.477	325.641	318.984	214.836	0.374752	0.367092	868.945	868.922	0.003

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

CONSTRUCTION V=(-0.000772*T+0.0546679)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	22.599	56.715	8.387	34.115	48.328	0.020288	0.082525	413.391	413.375	0.004
1951	22.989	57.693	8.693	34.704	49.000	0.020380	0.081359	426.547	426.527	0.005
1952	23.393	58.707	9.015	35.313	49.692	0.020473	0.080193	440.355	440.340	0.004
1953	23.812	59.759	9.354	35.947	50.405	0.020565	0.079029	454.852	454.840	0.003
1954	24.246	60.849	9.711	36.602	51.138	0.020657	0.077863	470.082	470.063	0.004
1955	24.697	61.980	10.087	37.283	51.894	0.020750	0.076697	486.102	486.086	0.003
1956	25.165	63.154	10.483	37.989	52.672	0.020842	0.075530	502.957	502.938	0.004
1957	25.651	64.373	10.901	38.722	53.473	0.020934	0.074364	520.703	520.688	0.003
1958	26.155	65.639	11.342	39.483	54.297	0.021027	0.073198	539.398	539.375	0.004
1959	26.680	66.955	11.808	40.275	55.147	0.021119	0.072033	559.117	559.086	0.006
1960	27.225	68.322	12.301	41.097	56.021	0.021212	0.070867	579.922	579.898	0.004
1961	27.791	69.744	12.823	41.953	56.922	0.021304	0.069701	601.891	601.867	0.004
1962	28.381	71.226	13.375	42.844	57.851	0.021396	0.068536	625.125	625.102	0.004
1963	28.995	72.765	13.961	43.770	58.805	0.021488	0.067369	649.688	649.648	0.006
1964	29.634	74.369	14.582	44.735	59.787	0.021581	0.066204	675.703	675.680	0.003
1965	30.299	76.039	15.242	45.739	60.798	0.021673	0.065038	703.266	703.227	0.006
1966	30.993	77.780	15.943	46.787	61.838	0.021765	0.063872	732.492	732.453	0.005
1967	31.717	79.597	16.689	47.879	62.908	0.021858	0.062707	763.531	763.500	0.004
1968	32.472	81.491	17.483	49.017	64.009	0.021950	0.061542	796.508	796.477	0.004
1969	33.259	83.468	18.330	50.208	65.138	0.022042	0.060375	831.594	831.562	0.004
1970	34.083	85.533	19.234	51.451	66.300	0.022135	0.059210	868.945	868.922	0.003

SERVICES 1 V=(-0.001492*T+0.3077736)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	127.230	175.473	54.353	48.246	121.121	0.131479	0.116707	413.391	413.375	0.004
1951	130.643	180.180	56.039	49.539	124.141	0.131378	0.116139	426.547	426.527	0.005
1952	134.215	185.105	57.810	50.894	127.297	0.131279	0.115575	440.355	440.340	0.004
1953	137.955	190.264	59.667	52.312	130.598	0.131178	0.115008	454.852	454.840	0.003
1954	141.873	195.668	61.618	53.799	134.051	0.131079	0.114443	470.082	470.063	0.004
1955	145.982	201.336	63.669	55.356	137.668	0.130980	0.113878	486.102	486.086	0.003
1956	150.295	207.283	65.826	56.992	141.457	0.130877	0.113313	502.957	502.938	0.004
1957	154.820	213.525	68.097	58.708	145.430	0.130777	0.112746	520.703	520.688	0.003
1958	159.574	220.080	70.487	60.510	149.594	0.130676	0.112181	539.398	539.375	0.004
1959	164.574	226.977	73.009	62.407	153.969	0.130577	0.111616	559.117	559.086	0.006
1960	169.832	234.229	75.668	64.400	158.561	0.130478	0.111050	579.922	579.898	0.004
1961	175.367	241.863	78.473	66.499	163.391	0.130377	0.110483	601.891	601.867	0.004
1962	181.203	249.912	81.440	68.713	168.473	0.130278	0.109919	625.125	625.102	0.004
1963	187.355	258.395	84.575	71.044	173.820	0.130177	0.109350	649.688	649.648	0.006
1964	193.848	267.348	87.894	73.507	179.457	0.130075	0.108786	675.703	675.680	0.003
1965	200.707	276.809	91.408	76.107	185.402	0.129976	0.108219	703.266	703.227	0.006
1966	207.957	286.809	95.135	78.856	191.676	0.129877	0.107655	732.492	732.453	0.005
1967	215.629	297.391	99.091	81.766	198.301	0.129778	0.107088	763.531	763.500	0.004
1968	223.754	308.594	103.289	84.849	205.305	0.129677	0.106521	796.508	796.477	0.004
1969	232.331	320.438	107.743	[illegible]	212.717	0.129578	0.105959	831.594	831.562	0.004
1970	241.391	332.955	112.470	[illegible]	220.563	0.129478	0.105392	868.945	868.922	0.003

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

SERVICES ?

V=(0.001369*T+0.2118969)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	87.596	121.734	32.635	34.140	89.100	0.078943	0.082585	413.391	413.375	0.004
1951	90.967	126.420	33.628	35.454	92.792	0.078837	0.083118	426.547	426.527	0.005
1952	94.515	131.350	34.670	36.837	96.680	0.078732	0.083652	440.355	440.340	0.004
1953	98.248	136.539	35.763	38.292	100.777	0.078626	0.084186	454.852	454.840	0.003
1954	102.182	142.006	36.912	39.825	105.096	0.078521	0.084720	470.082	470.063	0.004
1955	106.329	147.770	38.118	41.441	109.652	0.078416	0.085252	486.102	486.086	0.003
1956	110.704	153.850	39.387	43.147	114.463	0.078310	0.085786	502.957	502.938	0.004
1957	115.322	160.268	40.722	44.947	119.547	0.078205	0.086319	520.703	520.688	0.003
1958	120.201	167.047	42.127	46.848	124.920	0.078099	0.086852	539.398	539.375	0.004
1959	125.359	174.217	43.607	48.859	130.609	0.077992	0.087385	559.117	559.086	0.006
1960	130.818	181.803	45.169	50.987	136.635	0.077888	0.087919	579.922	579.898	0.004
1961	136.598	189.834	46.817	53.239	143.018	0.077784	0.088452	601.891	601.867	0.004
1962	142.727	198.352	48.558	55.627	149.785	0.077677	0.088985	625.125	625.102	0.004
1963	149.223	207.379	50.397	58.160	156.982	0.077571	0.089519	649.688	649.648	0.006
1964	156.125	216.973	52.345	60.850	164.629	0.077467	0.090054	675.703	675.680	0.003
1965	163.455	227.160	54.405	63.707	172.756	0.077360	0.090587	703.266	703.227	0.006
1966	171.250	237.992	56.590	66.744	181.402	0.077256	0.091119	732.492	732.453	0.005
1967	179.551	249.527	58.908	69.979	190.621	0.077151	0.091652	763.531	763.500	0.004
1968	188.396	261.820	61.368	73.428	200.453	0.077045	0.092187	796.508	796.477	0.004
1969	197.834	274.938	63.983	77.105	210.957	0.076941	0.092720	831.594	831.562	0.004
1970	207.910	288.938	66.766	81.032	222.172	0.076835	0.093253	868.945	868.922	0.003

DWELLINGS

V=(0.001030*T+0.0565829)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	23.391	31.807	19.690	8.417	12.117	0.047630	0.020360	413.391	413.375	0.004
1951	24.574	33.417	20.332	8.843	13.085	0.047665	0.020731	426.547	426.527	0.005
1952	25.824	35.116	21.005	9.292	14.111	0.047699	0.021102	440.355	440.340	0.004
1953	27.143	36.909	21.712	9.767	15.197	0.047735	0.021473	454.852	454.840	0.003
1954	28.536	38.804	22.456	10.268	16.348	0.047769	0.021843	470.082	470.063	0.004
1955	30.009	40.808	23.238	10.799	17.570	0.047805	0.022215	486.102	486.086	0.003
1956	31.568	42.927	24.061	11.359	18.866	0.047839	0.022585	502.957	502.938	0.004
1957	33.218	45.170	24.928	11.953	20.242	0.047874	0.022955	520.703	520.688	0.003
1958	34.967	47.549	25.842	12.582	21.708	0.047908	0.023327	539.398	539.375	0.004
1959	36.820	50.069	26.804	13.249	23.264	0.047943	0.023697	559.117	559.086	0.006
1960	38.789	52.747	27.823	13.958	24.923	0.047978	0.024068	579.922	579.898	0.004
1961	40.878	55.587	28.898	14.709	26.689	0.048012	0.024439	601.891	601.867	0.004
1962	43.100	58.608	30.035	15.509	28.573	0.048047	0.024809	625.125	625.102	0.004
1963	45.463	61.822	31.238	16.359	30.584	0.048081	0.025180	649.688	649.648	0.006
1964	47.979	65.244	32.512	17.265	32.732	0.048116	0.025551	675.703	675.680	0.003
1965	50.662	68.892	33.863	18.230	35.029	0.048151	0.025922	703.266	703.227	0.006
1966	53.521	72.780	35.295	19.259	37.445	0.048185	0.026292	732.492	732.453	0.005
1967	56.577	76.936	36.818	20.359	40.118	0.048220	0.026664	763.531	763.500	0.004
1968	59.841	81.373	38.435	21.533	42.938	0.048254	0.027034	796.508	796.477	0.004
1969	63.334	86.123	40.158	22.790	45.966	0.048290	0.027405	831.594	831.562	0.004
1970	67.074	91.210	41.992	24.136	49.219	0.048325	0.027776	868.945	868.922	0.003

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

AGRICUL+FOOD V=(-0.001100*T+0.0836325)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	34.573	98.765	49.272	64.192	49.492	0.119190	0.155281	413.391	413.383	0.002
1951	35.204	100.567	50.258	65.364	50.310	0.117825	0.153240	426.547	426.539	0.002
1952	35.859	102.438	51.283	66.560	51.155	0.116458	0.151196	440.355	440.344	0.003
1953	36.539	104.380	52.349	67.843	52.031	0.115090	0.149153	454.852	454.840	0.003
1954	37.246	106.399	53.460	69.154	52.939	0.113725	0.147110	470.082	470.074	0.002
1955	37.979	108.496	54.616	70.518	53.880	0.112355	0.145067	486.102	486.094	0.002
1956	38.743	110.678	55.823	71.936	54.855	0.110989	0.143024	502.957	502.949	0.002
1957	39.537	112.946	57.081	73.410	55.866	0.109622	0.140982	520.703	520.695	0.002
1958	40.363	115.306	58.392	74.943	56.914	0.108253	0.138937	539.398	539.391	0.001
1959	41.224	117.764	59.763	76.541	58.001	0.106887	0.136896	559.117	559.109	0.001
1960	42.119	120.322	61.193	78.204	59.130	0.105518	0.134851	579.922	579.906	0.003
1961	43.053	122.989	62.689	79.938	60.300	0.104154	0.132811	601.891	601.875	0.003
1962	44.027	125.773	64.255	81.747	61.519	0.102787	0.130768	625.125	625.109	0.002
1963	45.042	128.672	65.891	83.631	62.781	0.101418	0.128723	649.688	649.664	0.004
1964	46.103	131.701	67.605	85.600	64.096	0.100052	0.126680	675.703	675.695	0.001
1965	47.209	134.861	69.400	87.653	65.461	0.098682	0.124637	703.266	703.242	0.003
1966	48.365	138.164	71.283	89.801	66.881	0.097316	0.122596	732.492	732.477	0.002
1967	49.575	141.621	73.261	92.047	68.361	0.095949	0.120554	763.531	763.531	0.000
1968	50.840	145.234	75.336	94.395	69.898	0.094583	0.118510	796.508	796.492	0.002
1969	52.164	149.018	77.518	96.854	71.500	0.093215	0.116468	831.594	831.578	0.002
1970	53.551	152.979	79.812	99.430	73.168	0.091848	0.114426	868.945	868.937	0.001

MINING+ENERGY V=(0.000312*T+0.0436034)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	18.025	32.394	25.352	14.369	7.042	0.061327	0.034759	413.391	413.383	0.002
1951	18.732	33.664	26.196	14.932	7.468	0.061414	0.035007	426.547	426.539	0.002
1952	19.476	35.001	27.083	15.526	7.918	0.061502	0.035256	440.355	440.344	0.003
1953	20.259	36.409	28.015	16.150	8.394	0.061591	0.035505	454.852	454.840	0.003
1954	21.084	37.892	28.994	16.808	8.898	0.061679	0.035754	470.082	470.074	0.002
1955	21.954	39.456	30.025	17.501	9.430	0.061768	0.036003	486.102	486.094	0.002
1956	22.873	41.106	31.111	18.233	9.996	0.061855	0.036252	502.957	502.949	0.002
1957	23.842	42.849	32.254	19.006	10.595	0.061943	0.036501	520.703	520.695	0.002
1958	24.867	44.690	33.460	19.823	11.230	0.062032	0.036750	539.398	539.391	0.001
1959	25.951	46.638	34.732	20.687	11.905	0.062120	0.036999	559.117	559.109	0.001
1960	27.097	48.698	36.075	21.601	12.623	0.062207	0.037248	579.922	579.906	0.003
1961	28.312	50.881	37.496	22.569	13.386	0.062296	0.037497	601.891	601.875	0.003
1962	29.600	53.196	38.998	23.596	14.198	0.062383	0.037746	625.125	625.109	0.002
1963	30.966	55.651	40.587	24.685	15.064	0.062471	0.037995	649.688	649.664	0.004
1964	32.417	58.258	42.271	25.842	15.987	0.062559	0.038244	675.703	675.695	0.001
1965	33.956	61.029	44.058	27.071	16.971	0.062648	0.038493	703.266	703.242	0.003
1966	35.599	63.977	45.954	28.378	18.023	0.062736	0.038742	732.492	732.477	0.002
1967	37.346	67.116	47.967	29.771	19.149	0.062822	0.038990	763.531	763.531	0.000
1968	39.208	70.463	50.110	31.255	20.354	0.062911	0.039240	796.508	796.492	0.002
1969	41.194	74.033	52.390	32.839	21.644	0.062999	0.039489	831.594	831.578	0.002
1970	43.316	77.846	54.821	34.530	23.025	0.063088	0.039737	868.945	868.937	0.001

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

MANUFAC+CONSTRUC V=(-0.000119*T+0.2965050)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	122.572	300.383	166.320	177.813	134.863	0.402328	0.430130	413.391	413.383	0.002
1951	126.422	309.816	171.502	183.398	139.316	0.402069	0.429958	426.547	426.539	0.002
1952	130.463	319.719	176.939	189.258	142.781	0.401810	0.429783	440.355	440.344	0.003
1953	134.703	330.113	182.645	195.412	147.469	0.401546	0.429615	454.852	454.840	0.003
1954	139.158	341.031	188.641	201.875	152.391	0.401291	0.429443	470.082	470.074	0.002
1955	143.842	352.508	194.939	208.668	157.570	0.401024	0.429268	486.102	486.094	0.002
1956	148.770	364.586	201.570	215.819	163.016	0.400768	0.429096	502.957	502.949	0.002
1957	153.957	377.297	208.545	223.344	168.754	0.400505	0.428925	520.703	520.695	0.002
1958	159.422	390.681	215.883	231.259	174.801	0.400246	0.428757	539.398	539.391	0.001
1959	165.184	404.779	223.611	239.583	181.165	0.399989	0.428591	559.117	559.109	0.001
1960	171.258	419.638	231.755	248.341	187.861	0.399715	0.428408	579.922	579.906	0.003
1961	177.676	435.326	240.344	257.554	194.912	0.399464	0.428238	601.891	601.875	0.003
1962	184.457	451.883	249.405	267.244	202.338	0.399197	0.428055	625.125	625.109	0.002
1963	191.629	469.417	258.994	277.435	210.434	0.398933	0.427883	649.668	649.664	0.004
1964	199.223	487.967	269.137	288.148	218.848	0.398674	0.427711	675.703	675.695	0.001
1965	207.266	507.638	279.881	299.411	227.746	0.398415	0.427540	703.266	703.242	0.003
1966	215.793	528.436	291.246	311.414	237.135	0.398151	0.427372	732.492	732.477	0.002
1967	224.844	550.434	303.291	324.219	247.019	0.397848	0.427175	763.531	763.531	0.000
1968	234.461	573.656	316.049	337.867	257.413	0.397533	0.426985	796.508	796.492	0.002
1969	244.698	598.148	329.549	352.702	268.353	0.397266	0.426814	831.594	831.578	0.002
1970	255.578	623.736	343.866	368.466	279.870	0.397108	0.426674	868.945	868.937	0.001

SERVICES V=(0.000907*T+0.5762550)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	238.215	328.977	106.190	90.761	222.739	0.256874	0.219551	413.391	413.383	0.002
1951	246.184	339.980	109.535	93.797	230.445	0.256794	0.219896	426.547	426.539	0.002
1952	254.551	351.535	113.046	96.985	238.492	0.256714	0.220242	440.355	440.344	0.003
1953	263.344	363.680	116.730	100.335	246.949	0.256634	0.220587	454.852	454.840	0.003
1954	272.590	376.449	120.603	103.858	255.848	0.256554	0.220936	470.082	470.074	0.002
1955	282.320	389.887	124.673	107.566	265.215	0.256474	0.221283	486.102	486.094	0.002
1956	292.566	404.035	128.955	111.470	275.082	0.256393	0.221628	502.957	502.949	0.002
1957	303.359	418.941	133.463	115.582	285.480	0.256310	0.221972	520.703	520.695	0.002
1958	314.742	434.660	138.211	119.919	296.449	0.256229	0.222319	539.398	539.391	0.001
1959	326.758	451.254	143.219	124.497	308.035	0.256149	0.222666	559.117	559.109	0.001
1960	339.438	468.766	148.500	129.328	320.256	0.256065	0.223009	579.922	579.906	0.003
1961	352.844	487.281	154.078	134.436	333.203	0.255989	0.223354	601.891	601.875	0.003
1962	367.031	506.875	159.975	139.842	346.902	0.255905	0.223701	625.125	625.109	0.002
1963	382.039	527.594	166.205	145.557	361.391	0.255821	0.224041	649.668	649.664	0.004
1964	397.953	549.578	172.809	151.623	376.773	0.255745	0.224392	675.703	675.695	0.001
1965	414.820	572.867	179.801	158.049	393.070	0.255665	0.224735	703.266	703.242	0.003
1966	432.727	597.594	187.213	164.871	410.348	0.255581	0.225080	732.492	732.477	0.002
1967	451.758	623.[illegible]	195.[illegible]	172.[illegible]	428.[illegible]	0.255501	0.225430	763.531	763.531	0.000
1968	471.[illegible]	[illegible]	[illegible]	[illegible]	448.[illegible]	0.[illegible]	0.225775	796.508	796.492	0.002
1969	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	831.594	831.578	0.002
1970	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	868.945	868.937	0.001

MICRO - ECONOMIC MODEL FOR NORTH AMERICA

FOOD V=(-0.001100*T+0.0836325)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	34.573	98.769	49.230	64.195	49.538	0.119089	0.155289	413.391	413.395	-0.001
1951	35.204	100.572	50.218	65.367	50.354	0.117730	0.153246	426.547	426.555	-0.002
1952	35.859	102.442	51.245	66.584	51.197	0.116372	0.151205	440.355	440.359	-0.001
1953	36.539	104.385	52.313	67.846	52.072	0.115010	0.149158	454.852	454.852	0.000
1954	37.246	106.404	53.427	69.158	52.976	0.113655	0.147118	470.082	470.086	-0.001
1955	37.979	108.501	54.586	70.521	53.915	0.112294	0.145075	486.102	486.109	-0.002
1956	38.743	110.683	55.796	71.939	54.887	0.110935	0.143032	502.957	502.965	-0.002
1957	39.537	112.951	57.057	73.414	55.895	0.109576	0.140989	520.703	520.695	0.002
1958	40.363	115.312	58.373	74.948	56.938	0.108218	0.138947	539.398	539.406	-0.001
1959	41.224	117.769	59.746	76.545	58.022	0.106857	0.136902	559.117	559.109	0.001
1960	42.119	120.327	61.181	78.208	59.146	0.105498	0.134859	579.922	579.922	0.000
1961	43.053	122.994	62.681	79.941	60.313	0.104140	0.132816	601.891	601.898	-0.001
1962	44.027	125.778	64.251	81.751	61.527	0.102780	0.130774	625.125	625.133	-0.001
1963	45.042	128.678	65.893	83.635	62.785	0.101421	0.128729	649.688	649.688	0.000
1964	46.103	131.707	67.613	85.604	64.094	0.100063	0.126688	675.703	675.703	0.000
1965	47.209	134.867	69.415	87.658	65.453	0.098703	0.124644	703.266	703.281	-0.002
1966	48.365	138.172	71.306	89.807	66.867	0.097346	0.122603	732.492	732.508	-0.002
1967	49.575	141.627	73.289	92.052	68.338	0.095986	0.120560	763.531	763.539	-0.001
1968	50.840	145.240	75.372	94.400	69.869	0.094627	0.118517	796.508	796.523	-0.002
1969	52.164	149.023	77.562	96.858	71.463	0.093268	0.116473	831.594	831.602	-0.001
1970	53.551	152.984	79.863	99.434	73.121	0.091908	0.114429	868.945	868.961	-0.002

NON-FOOD V=(0.001100*T+0.9163818)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	378.820	659.602	295.746	280.781	363.859	0.715408	0.679214	413.391	413.395	-0.001
1951	391.348	681.422	305.223	290.070	376.203	0.715561	0.680038	426.547	426.555	-0.002
1952	404.500	704.320	315.156	299.820	389.164	0.715683	0.680955	440.355	440.359	-0.001
1953	418.316	728.375	325.594	310.059	402.781	0.715820	0.681664	454.852	454.852	0.000
1954	432.840	753.664	336.555	320.824	417.109	0.715942	0.682460	470.082	470.086	-0.001
1955	448.125	780.281	348.090	332.156	432.195	0.716080	0.683304	486.102	486.109	-0.002
1956	464.219	808.305	360.227	344.082	448.078	0.716217	0.684113	502.957	502.965	-0.002
1957	481.164	837.805	373.000	356.641	464.805	0.716331	0.684914	520.703	520.695	0.002
1958	499.039	868.930	386.465	369.891	482.469	0.716469	0.685745	539.398	539.406	-0.001
1959	517.891	901.758	400.664	383.867	501.094	0.716599	0.686554	559.117	559.109	0.001
1960	537.805	936.430	415.652	398.625	520.781	0.716736	0.687370	579.922	579.922	0.000
1961	558.844	973.062	431.480	414.219	541.586	0.716873	0.688194	601.891	601.898	-0.001
1962	581.102	1011.820	448.215	430.715	563.499	0.716995	0.689003	625.125	625.133	-0.001
1963	604.648	1052.813	465.914	448.172	586.906	0.717133	0.689819	649.688	649.688	0.000
1964	629.602	1096.266	484.656	466.664	611.609	0.717255	0.690628	675.703	675.703	0.000
1965	656.062	1142.344	504.523	486.277	637.628	0.717400	0.691452	703.266	703.281	-0.002
1966	684.133	1191.219	525.578	507.082	665.641	0.717514	0.692268	732.492	732.508	-0.002
1967	713.961	1243.156	547.953	529.188	695.203	0.717651	0.693077	763.531	763.539	-0.001
1968	745.672	1298.375	571.727	552.703	726.656	0.717789	0.693901	796.508	796.523	-0.002
1969	779.437	1357.156	597.016	577.719	760.141	0.717911	0.694710	831.594	831.602	-0.001
1970	815.398	1419.781	623.945	604.375	795.844	0.718048	0.695526	868.945	868.961	-0.002

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

Z MATRIX=

	8.301	2.581
	2.905	48.756

Z VECTOR= 30.731 113.036

A MATRIX=

	0.27011	0.02284
	0.09453	0.43133

COL SUM= 0.36464 0.45417

(1-A)-1=

	1.37718	0.05530
	0.22892	1.76761

AGRICULTURE

V=(-0.003946*T+0.2303352)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	9.898	11.446	4.102	1.547	7.344	0.095452	0.036008	42.974	42.972	0.005
1951	10.156	11.744	4.303	1.588	7.441	0.095922	0.035392	44.861	44.858	0.005
1952	10.427	12.057	4.518	1.630	7.538	0.096394	0.034775	46.874	46.872	0.005
1953	10.711	12.386	4.749	1.675	7.637	0.096863	0.034158	49.023	49.021	0.005
1954	11.011	12.732	4.995	1.721	7.737	0.097334	0.033541	51.320	51.317	0.005
1955	11.326	13.096	5.260	1.771	7.837	0.097804	0.032924	53.778	53.775	0.005
1956	11.657	13.480	5.544	1.822	7.936	0.098275	0.032307	56.409	56.407	0.003
1957	12.007	13.884	5.849	1.877	8.035	0.098745	0.031691	59.231	59.229	0.004
1958	12.375	14.309	6.177	1.935	8.132	0.099216	0.031073	62.259	62.257	0.003
1959	12.763	14.758	6.531	1.995	8.227	0.099686	0.030457	65.512	65.509	0.004
1960	13.172	15.231	6.912	2.059	8.319	0.100156	0.029840	69.010	69.007	0.004
1961	13.604	15.731	7.324	2.127	8.408	0.100628	0.029223	72.778	72.775	0.004
1962	14.061	16.259	7.768	2.198	8.490	0.101099	0.028606	76.840	76.838	0.003
1963	14.542	16.815	8.250	2.273	8.566	0.101568	0.027989	81.225	81.222	0.004
1964	15.051	17.404	8.771	2.353	8.633	0.102037	0.027372	85.963	85.961	0.002
1965	15.590	18.027	9.338	2.437	8.689	0.102509	0.026755	91.093	91.090	0.003
1966	16.160	18.686	9.953	2.526	8.733	0.102978	0.026139	96.649	96.647	0.002
1967	16.763	19.384	10.622	2.621	8.761	0.103449	0.025522	102.682	102.680	0.002
1968	17.402	20.122	11.348	2.720	8.771	0.103919	0.024905	109.235	109.232	0.003
1969	18.079	20.906	12.136	2.826	8.769	0.104389	0.024288	116.369	116.368	0.001
1970	18.797	21.736	13.017	2.939	8.718	0.104859	0.023671	124.142	124.138	0.003

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

MINING V=(-0.000430*T+0.0219960)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	0.945	1.050	0.402	0.105	0.648	0.009350	0.002444	42,974	42,972	0.005
1951	0.967	1.075	0.424	0.107	0.651	0.009457	0.002396	44,861	44,858	0.005
1952	0.991	1.101	0.448	0.110	0.652	0.009564	0.002348	46,874	46,872	0.005
1953	1.015	1.128	0.474	0.113	0.654	0.009672	0.002301	49,023	49,021	0.005
1954	1.041	1.156	0.502	0.116	0.654	0.009779	0.002253	51,320	51,317	0.005
1955	1.067	1.186	0.532	0.119	0.654	0.009887	0.002205	53,778	53,775	0.005
1956	1.095	1.217	0.564	0.122	0.653	0.009994	0.002157	56,409	56,407	0.003
1957	1.125	1.250	0.598	0.125	0.651	0.010101	0.002110	59,231	59,229	0.004
1958	1.155	1.284	0.636	0.128	0.648	0.010209	0.002062	62,259	62,257	0.003
1959	1.188	1.320	0.676	0.132	0.644	0.010316	0.002014	65,512	65,509	0.004
1960	1.221	1.357	0.719	0.136	0.638	0.010423	0.001966	69,010	69,007	0.004
1961	1.257	1.396	0.766	0.140	0.630	0.010531	0.001919	72,778	72,775	0.004
1962	1.294	1.438	0.817	0.144	0.620	0.010638	0.001871	76,840	76,838	0.003
1963	1.333	1.481	0.873	0.148	0.608	0.010746	0.001823	81,225	81,222	0.004
1964	1.374	1.526	0.933	0.153	0.593	0.010853	0.001775	85,963	85,961	0.002
1965	1.416	1.574	0.998	0.157	0.575	0.010960	0.001728	91,093	91,090	0.003
1966	1.461	1.624	1.070	0.162	0.554	0.011068	0.001680	96,649	96,647	0.002
1967	1.508	1.676	1.147	0.168	0.528	0.011175	0.001632	102,682	102,680	0.002
1968	1.558	1.731	1.232	0.173	0.498	0.011282	0.001584	109,235	109,232	0.003
1969	1.609	1.788	1.325	0.179	0.464	0.011390	0.001537	116,369	116,368	0.001
1970	1.664	1.848	1.427	0.185	0.421	0.011497	0.001489	124,142	124,138	0.003

ENERGY V=(0.000052*T+0.0495872)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	2.131	2.263	1.839	0.132	0.424	0.042800	0.003081	42,974	42,972	0.005
1951	2.227	2.365	1.928	0.138	0.437	0.042972	0.003084	44,861	44,858	0.005
1952	2.329	2.474	2.022	0.145	0.451	0.043145	0.003087	46,874	46,872	0.005
1953	2.439	2.590	2.124	0.152	0.466	0.043317	0.003091	49,023	49,021	0.005
1954	2.555	2.714	2.232	0.159	0.482	0.043489	0.003094	51,320	51,317	0.005
1955	2.681	2.847	2.348	0.167	0.499	0.043661	0.003097	53,778	53,775	0.005
1956	2.815	2.989	2.473	0.175	0.517	0.043834	0.003100	56,409	56,407	0.003
1957	2.958	3.142	2.607	0.184	0.536	0.044006	0.003103	59,231	59,229	0.004
1958	3.113	3.306	2.750	0.193	0.556	0.044178	0.003107	62,259	62,257	0.003
1959	3.279	3.483	2.905	0.204	0.577	0.044351	0.003110	65,512	65,509	0.004
1960	3.458	3.672	3.073	0.215	0.599	0.044523	0.003113	69,010	69,007	0.004
1961	3.650	3.877	3.253	0.227	0.624	0.044695	0.003116	72,778	72,775	0.004
1962	3.858	4.097	3.448	0.240	0.650	0.044867	0.003119	76,840	76,838	0.003
1963	4.082	4.336	3.658	0.254	0.677	0.045039	0.003123	81,225	81,222	0.004
1964	4.325	4.593	3.887	0.269	0.707	0.045212	0.003126	85,963	85,961	0.002
1965	4.588	4.873	4.134	0.285	0.738	0.045384	0.003129	91,093	91,090	0.003
1966	4.872	5.175	4.403	0.303	0.772	0.045556	0.003132	96,649	96,647	0.002
1967	5.182	5.504	4.695	0.322	0.808	0.045728	0.003136	102,682	102,680	0.002
1968	5.518	5.861	5.014	0.343	0.847	0.045900	0.003139	109,235	109,232	0.003
1969	5.885	6.250	5.361	0.366	0.889	0.046072	0.003142	116,369	116,368	0.001
1970	6.284	6.674	5.741	0.390	0.933	0.046245	0.003145	124,142	124,138	0.003

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

FOOD

V=(0.000392*T+0.0562606)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	2.418	6.751	1.240	4.333	5.511	0.028849	0.100837	42.974	42.972	0.005
1951	2.541	7.096	1.306	4.555	5.790	0.029122	0.101536	44.861	44.858	0.005
1952	2.674	7.466	1.378	4.792	6.088	0.029396	0.102240	46.874	46.872	0.005
1953	2.816	7.862	1.454	5.047	6.408	0.029669	0.102942	49.023	49.021	0.005
1954	2.968	8.287	1.537	5.319	6.750	0.029943	0.103644	51.320	51.317	0.005
1955	3.131	8.743	1.625	5.612	7.118	0.030216	0.104347	53.778	53.775	0.005
1956	3.306	9.232	1.720	5.926	7.512	0.030491	0.105052	56.409	56.407	0.003
1957	3.495	9.759	1.822	6.264	7.937	0.030763	0.105752	59.231	59.229	0.004
1958	3.698	10.326	1.932	6.628	8.393	0.031037	0.106458	62.259	62.257	0.003
1959	3.917	10.937	2.051	7.020	8.886	0.031310	0.107159	65.512	65.509	0.004
1960	4.153	11.596	2.180	7.443	9.417	0.031583	0.107859	69.010	69.007	0.004
1961	4.408	12.309	2.319	7.901	9.991	0.031857	0.108562	72.778	72.775	0.004
1962	4.684	13.080	2.469	8.396	10.611	0.032130	0.109264	76.840	76.838	0.003
1963	4.984	13.916	2.632	8.932	11.284	0.032403	0.109968	81.225	81.222	0.004
1964	5.308	14.821	2.809	9.514	12.012	0.032678	0.110670	85.963	85.961	0.002
1965	5.660	15.806	3.002	10.145	12.804	0.032951	0.111372	91.093	91.090	0.003
1966	6.043	16.875	3.211	10.832	13.664	0.033224	0.112074	96.649	96.647	0.002
1967	6.461	18.041	3.440	11.580	14.602	0.033497	0.112776	102.682	102.680	0.002
1968	6.916	19.312	3.689	12.396	15.623	0.033771	0.113481	109.235	109.232	0.003
1969	7.413	20.701	3.962	13.287	16.739	0.034045	0.114182	116.369	116.368	0.001
1970	7.957	22.219	4.260	14.262	17.959	0.034318	0.114883	124.142	124.138	0.003

MANUFACTURING

V=(0.003417*T+0.1104012)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	4.744	18.953	15.049	14.209	3.904	0.350182	0.330635	42.974	42.972	0.005
1951	5.106	20.397	16.069	15.291	4.328	0.358196	0.340862	44.861	44.858	0.005
1952	5.495	21.953	17.166	16.458	4.787	0.366215	0.351101	46.874	46.872	0.005
1953	5.915	23.628	18.346	17.713	5.282	0.374225	0.361328	49.023	49.021	0.005
1954	6.367	25.436	19.617	19.068	5.819	0.382248	0.371559	51.320	51.317	0.005
1955	6.856	27.388	20.988	20.532	6.400	0.390263	0.381786	53.778	53.775	0.005
1956	7.384	29.498	22.467	22.114	7.031	0.398277	0.392021	56.409	56.407	0.003
1957	7.956	31.781	24.065	23.826	7.716	0.406296	0.402248	59.231	59.229	0.004
1958	8.575	34.256	25.795	25.681	8.462	0.414310	0.412487	62.259	62.257	0.003
1959	9.247	36.940	27.667	27.693	9.272	0.422325	0.422714	65.512	65.509	0.004
1960	9.976	39.854	29.698	29.878	10.156	0.430344	0.432945	69.010	69.007	0.004
1961	10.770	43.024	31.903	32.254	11.121	0.438358	0.443180	72.778	72.775	0.004
1962	11.633	46.474	34.299	34.840	12.175	0.446365	0.453407	76.840	76.838	0.003
1963	12.575	50.234	36.908	37.660	13.326	0.454395	0.463646	81.225	81.222	0.004
1964	13.602	54.338	39.750	40.736	14.588	0.462406	0.473877	85.963	85.961	0.002
1965	14.725	58.824	42.853	44.099	15.971	0.470425	0.484104	91.093	91.090	0.003
1966	15.953	63.731	46.241	47.778	17.490	0.478439	0.494339	96.649	96.647	0.002
1967	17.300	69.110	49.950	51.811	19.160	0.486454	0.504570	102.682	102.680	0.002
1968	18.777	75.012	54.015	56.235	20.997	0.494476	0.514801	109.235	109.232	0.003
1969	20.401	81.500	58.475	61.098	23.025	0.502487	0.525032	116.369	116.368	0.001
1970	22.188	88.638	63.377	66.451	25.261	0.510521	0.535978	124.142	124.138	0.003

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

CONSTRUCTION V=(0.000050*T+0.0347362)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	1.493	4.193	0.392	2.700	3.801	0.009112	0.062830	42.974	42.972	0.005
1951	1.561	4.383	0.411	2.823	3.972	0.009163	0.062922	44.861	44.858	0.005
1952	1.633	4.586	0.432	2.954	4.155	0.009214	0.063010	46.874	46.872	0.005
1953	1.710	4.804	0.454	3.093	4.349	0.009264	0.063102	49.023	49.021	0.005
1954	1.793	5.036	0.478	3.243	4.559	0.009315	0.063191	51.320	51.317	0.005
1955	1.881	5.285	0.504	3.403	4.781	0.009366	0.063282	53.778	53.775	0.005
1956	1.976	5.551	0.531	3.575	5.020	0.009417	0.063372	56.409	56.407	0.003
1957	2.078	5.837	0.561	3.759	5.276	0.009468	0.063462	59.231	59.229	0.004
1958	2.187	6.144	0.593	3.957	5.551	0.009519	0.063552	62.259	62.257	0.003
1959	2.305	6.474	0.627	4.169	5.847	0.009570	0.063641	65.512	65.509	0.004
1960	2.431	6.830	0.664	4.398	6.166	0.009621	0.063732	69.010	69.007	0.004
1961	2.568	7.213	0.704	4.645	6.509	0.009672	0.063822	72.778	72.775	0.004
1962	2.715	7.626	0.747	4.911	6.879	0.009723	0.063912	76.840	76.838	0.003
1963	2.874	8.073	0.794	5.199	7.279	0.009774	0.064004	81.225	81.222	0.004
1964	3.046	8.555	0.845	5.510	7.711	0.009825	0.064092	85.963	85.961	0.002
1965	3.232	9.079	0.900	5.847	8.179	0.009876	0.064182	91.093	91.090	0.003
1966	3.434	9.646	0.959	6.212	8.687	0.009927	0.064273	96.649	96.647	0.002
1967	3.654	10.263	1.025	6.609	9.238	0.009978	0.064363	102.682	102.680	0.002
1968	3.892	10.933	1.096	7.041	9.837	0.010029	0.064453	109.235	109.232	0.003
1969	4.152	11.663	1.173	7.511	10.490	0.010080	0.064544	116.369	116.368	0.001
1970	4.436	12.460	1.258	8.024	11.202	0.010131	0.064633	124.142	124.138	0.003

SERVICES 1 V=(0.001308*T+0.2096367)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	9.009	10.214	0.826	1.205	9.368	0.019229	0.028045	42.974	42.972	0.005
1951	9.463	10.729	0.871	1.266	9.858	0.019425	0.028220	44.861	44.858	0.005
1952	9.949	11.280	0.920	1.331	10.360	0.019621	0.028395	46.874	46.872	0.005
1953	10.469	11.870	0.971	1.401	10.898	0.019817	0.028570	49.023	49.021	0.005
1954	11.027	12.502	1.027	1.475	11.475	0.020013	0.028745	51.320	51.317	0.005
1955	11.625	13.181	1.087	1.555	12.094	0.020209	0.028920	53.778	53.775	0.005
1956	12.268	13.909	1.151	1.641	12.758	0.020405	0.029096	56.409	56.407	0.003
1957	12.959	14.693	1.220	1.734	13.473	0.020601	0.029270	59.231	59.229	0.004
1958	13.703	15.536	1.295	1.833	14.241	0.020797	0.029445	62.259	62.257	0.003
1959	14.505	16.445	1.375	1.940	15.070	0.020993	0.029620	65.512	65.509	0.004
1960	15.369	17.425	1.462	2.056	15.963	0.021188	0.029794	69.010	69.007	0.004
1961	16.304	18.485	1.556	2.181	16.928	0.021384	0.029969	72.778	72.775	0.004
1962	17.314	19.630	1.658	2.316	17.972	0.021580	0.030145	76.840	76.838	0.003
1963	18.408	20.871	1.769	2.463	19.102	0.021776	0.030320	81.225	81.222	0.004
1964	19.595	22.216	1.889	2.621	20.328	0.021973	0.030495	85.963	85.961	0.002
1965	20.883	23.677	2.019	2.794	21.658	0.022169	0.030670	91.093	91.090	0.003
1966	22.284	25.265	2.162	2.981	23.103	0.022365	0.030845	96.649	96.647	0.002
1967	23.809	26.994	2.317	3.185	24.677	0.022560	0.031020	102.682	102.680	0.002
1968	25.471	28.879	2.486	3.408	26.393	0.022756	0.031195	109.235	109.232	0.003
1969	27.287	30.937	2.671	3.651	28.266	0.022953	0.031370	116.369	116.368	0.001
1970	29.272	33.188	2.874	3.916	30.314	0.023148	0.031545	124.142	124.138	0.003

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

SERVICES 2

V=(-0.000174*T+0.2193890)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	9.428	12.431	3.386	3.003	9.045	0.078793	0.069886	42.974	42.972	0.005
1951	9.834	12.967	3.588	3.133	9.378	0.079988	0.069831	44.861	44.858	0.005
1952	10.267	13.538	3.805	3.271	9.733	0.081184	0.069776	46.874	46.872	0.005
1953	10.729	14.147	4.039	3.418	10.109	0.082379	0.069720	49.023	49.021	0.005
1954	11.223	14.798	4.289	3.575	10.509	0.083574	0.069665	51.320	51.317	0.005
1955	11.751	15.495	4.559	3.743	10.936	0.084770	0.069610	53.778	53.775	0.005
1956	12.317	16.240	4.849	3.923	11.391	0.085966	0.069552	56.409	56.407	0.003
1957	12.922	17.039	5.163	4.116	11.876	0.087161	0.069497	59.231	59.229	0.004
1958	13.572	17.896	5.501	4.323	12.395	0.088357	0.069444	62.259	62.257	0.003
1959	14.270	18.815	5.867	4.546	12.949	0.089552	0.069387	65.512	65.509	0.004
1960	15.020	19.804	6.263	4.785	13.542	0.090748	0.069332	69.010	69.007	0.004
1961	15.827	20.869	6.692	5.042	14.177	0.091945	0.069276	72.778	72.775	0.004
1962	16.697	22.016	7.157	5.319	14.859	0.093141	0.069220	76.840	76.838	0.003
1963	17.636	23.253	7.662	5.618	15.591	0.094337	0.069165	81.225	81.222	0.004
1964	18.650	24.590	8.212	5.941	16.378	0.095531	0.069110	85.963	85.961	0.002
1965	19.747	26.037	8.811	6.290	17.226	0.096726	0.069054	91.093	91.090	0.003
1966	20.934	27.603	9.464	6.669	18.139	0.097923	0.068998	96.649	96.647	0.002
1967	22.223	29.302	10.178	7.079	19.125	0.099117	0.068943	102.682	102.680	0.002
1968	23.622	31.147	10.958	7.525	20.189	0.100313	0.068888	109.235	109.232	0.003
1969	25.145	33.154	11.813	8.010	21.342	0.101509	0.068831	116.369	116.368	0.001
1970	26.803	35.340	12.750	8.538	22.590	0.102705	0.068776	124.142	124.138	0.003

DWELLINGS

V=(-0.000666*T+0.0676317)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	2.906	2.906	0.000	0.000	2.906	0.000000	0.000000	42.974	42.972	0.005
1951	3.004	3.004	0.000	0.000	3.004	0.000000	0.000000	44.861	44.858	0.005
1952	3.108	3.108	0.000	0.000	3.108	0.000000	0.000000	46.874	46.872	0.005
1953	3.217	3.217	0.000	0.000	3.217	0.000000	0.000000	49.023	49.021	0.005
1954	3.334	3.334	0.000	0.000	3.334	0.000000	0.000000	51.320	51.317	0.005
1955	3.458	3.458	0.000	0.000	3.458	0.000000	0.000000	53.778	53.775	0.005
1956	3.589	3.589	0.000	0.000	3.589	0.000000	0.000000	56.409	56.407	0.003
1957	3.730	3.730	0.000	0.000	3.730	0.000000	0.000000	59.231	59.229	0.004
1958	3.879	3.879	0.000	0.000	3.879	0.000000	0.000000	62.259	62.257	0.003
1959	4.038	4.038	0.000	0.000	4.038	0.000000	0.000000	65.512	65.509	0.004
1960	4.207	4.207	0.000	0.000	4.207	0.000000	0.000000	69.010	69.007	0.004
1961	4.389	4.389	0.000	0.000	4.389	0.000000	0.000000	72.778	72.775	0.004
1962	4.582	4.582	0.000	0.000	4.582	0.000000	0.000000	76.840	76.838	0.003
1963	4.790	4.790	0.000	0.000	4.790	0.000000	0.000000	81.225	81.222	0.004
1964	5.012	5.012	0.000	0.000	5.012	0.000000	0.000000	85.963	85.961	0.002
1965	5.250	5.250	0.000	0.000	5.250	0.000000	0.000000	91.093	91.090	0.003
1966	5.506	5.506	0.000	0.000	5.506	0.000000	0.000000	96.649	96.647	0.002
1967	5.781	5.781	0.000	0.000	5.781	0.000000	0.000000	102.682	102.680	0.002
1968	6.077	6.077	0.000	0.000	6.077	0.000000	0.000000	109.235	109.232	0.003
1969	6.397	6.397	0.000	0.000	6.397	0.000000	0.000000	116.369	116.368	0.001
1970	6.741	6.741	0.000	0.000	6.741	0.000000	0.000000	124.142	124.138	0.003

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

AGRICUL+FOOD V=(-0.003554*T+0.2865982)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	12.316	19.384	6.304	7.068	13.080	0.146696	0.164471	42.974	42.972	0.005
1951	12.698	19.984	6.537	7.287	13.447	0.145716	0.162432	44.861	44.858	0.005
1952	13.101	20.619	6.784	7.518	13.834	0.144737	0.160391	46.874	46.872	0.004
1953	13.527	21.290	7.047	7.763	14.242	0.143759	0.158354	49.023	49.021	0.004
1954	13.979	22.000	7.327	8.022	14.673	0.142778	0.156313	51.320	51.317	0.005
1955	14.457	22.753	7.626	8.297	15.128	0.141800	0.154276	53.778	53.776	0.003
1956	14.964	23.551	7.944	8.587	15.607	0.140821	0.152233	56.409	56.408	0.003
1957	15.502	24.398	8.283	8.896	16.115	0.139843	0.150194	59.231	59.229	0.002
1958	16.073	25.297	8.646	9.224	16.651	0.138865	0.148153	62.259	62.256	0.004
1959	16.680	26.251	9.033	9.572	17.219	0.137884	0.146112	65.512	65.509	0.004
1960	17.325	27.268	9.448	9.943	17.820	0.136906	0.144075	69.010	69.006	0.006
1961	18.013	28.350	9.893	10.337	18.457	0.135929	0.142035	72.778	72.775	0.004
1962	18.745	29.502	10.370	10.757	19.133	0.134949	0.139996	76.840	76.837	0.004
1963	19.526	30.731	10.882	11.206	19.850	0.133970	0.137959	81.225	81.223	0.002
1964	20.360	32.043	11.432	11.684	20.611	0.132992	0.135918	85.963	85.961	0.002
1965	21.251	33.446	12.026	12.195	21.420	0.132013	0.133879	91.093	91.092	0.001
1966	22.204	34.946	12.665	12.742	22.281	0.131035	0.131842	96.649	96.646	0.003
1967	23.225	36.552	13.354	13.328	23.198	0.130054	0.129797	102.682	102.680	0.002
1968	24.318	38.274	14.100	13.958	24.174	0.129076	0.127758	109.235	109.234	0.001
1969	25.493	40.123	14.907	14.636	25.225	0.128098	0.125721	116.369	116.368	0.001
1970	26.755	42.108	15.781	15.354	26.327	0.127117	0.123680	124.142	124.140	0.002

MINING+ENERGY V=(-0.000378*T+0.0715828)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	3.076	3.304	2.184	0.228	1.121	0.050816	0.005310	42.974	42.972	0.005
1951	3.194	3.431	2.297	0.237	1.134	0.051198	0.005282	44.861	44.858	0.005
1952	3.320	3.566	2.418	0.246	1.148	0.051579	0.005254	46.874	46.872	0.004
1953	3.454	3.710	2.547	0.256	1.162	0.051962	0.005226	49.023	49.021	0.004
1954	3.596	3.863	2.686	0.267	1.176	0.052344	0.005198	51.320	51.317	0.005
1955	3.748	4.026	2.836	0.278	1.190	0.052726	0.005170	53.778	53.776	0.003
1956	3.910	4.200	2.996	0.290	1.204	0.053109	0.005142	56.409	56.408	0.003
1957	4.083	4.386	3.168	0.303	1.218	0.053490	0.005114	59.231	59.229	0.002
1958	4.268	4.585	3.354	0.317	1.231	0.053873	0.005086	62.259	62.256	0.004
1959	4.467	4.798	3.554	0.331	1.244	0.054254	0.005058	65.512	65.509	0.004
1960	4.679	5.026	3.770	0.347	1.256	0.054636	0.005030	69.010	69.006	0.006
1961	4.907	5.271	4.004	0.364	1.267	0.055018	0.005002	72.778	72.775	0.004
1962	5.152	5.534	4.257	0.382	1.277	0.055400	0.004974	76.840	76.837	0.004
1963	5.415	5.817	4.531	0.402	1.286	0.055783	0.004946	81.225	81.223	0.002
1964	5.698	6.121	4.828	0.423	1.293	0.056165	0.004918	85.963	85.961	0.002
1965	6.004	6.449	5.151	0.445	1.298	0.056547	0.004890	91.093	91.092	0.001
1966	6.334	6.804	5.502	0.470	1.301	0.056929	0.004862	96.649	96.646	0.003
1967	6.690	7.187	5.885	0.496	1.302	0.057311	0.004834	102.682	102.680	0.002
1968	7.076	7.601	6.302	0.525	1.299	0.057694	0.004806	109.235	109.234	0.001
1969	7.494	8.050	6.758	0.556	1.292	0.058076	0.004777	116.369	116.368	0.001
1970	7.948	8.537	7.257	0.590	1.280	0.058457	0.004749	124.142	124.140	0.002

MICRO - ECONOMIC MO. . FOR LATIN AMERICA

MANUFAC+CONSTRUC V=(0.003466*T+0.1451378)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	6.237	23.539	15.933	17.302	7.606	0.370747	0.402607	42.974	42.972	0.005
1951	6.666	25.159	16.954	18.493	8.205	0.377930	0.412220	44.861	44.858	0.005
1952	7.128	26.901	18.052	19.773	8.849	0.385117	0.421837	46.874	46.872	0.004
1953	7.625	28.776	19.232	21.151	9.544	0.392300	0.431450	49.023	49.021	0.004
1954	8.160	30.796	20.501	22.636	10.294	0.399483	0.441074	51.320	51.317	0.005
1955	8.737	32.974	21.869	24.237	11.104	0.406659	0.450684	53.778	53.776	0.003
1956	9.360	35.326	23.345	25.966	11.981	0.413849	0.460304	56.409	56.408	0.003
1957	10.034	37.867	24.938	27.834	12.929	0.421032	0.469921	59.231	59.229	0.002
1958	10.763	40.618	26.661	29.856	13.954	0.428226	0.479546	62.259	62.256	0.004
1959	11.552	43.596	28.523	32.044	15.073	0.435394	0.489140	65.512	65.509	0.004
1960	12.408	46.827	30.542	34.419	16.284	0.442581	0.498760	69.010	69.006	0.006
1961	13.338	50.337	32.734	37.000	17.604	0.449772	0.508385	72.778	72.775	0.004
1962	14.348	54.151	35.112	39.803	19.039	0.456951	0.517990	76.840	76.837	0.004
1963	15.449	58.305	37.700	42.856	20.604	0.464146	0.527618	81.225	81.223	0.002
1964	16.648	62.830	40.516	46.182	22.313	0.471317	0.537231	85.963	85.961	0.002
1965	17.957	67.771	43.588	49.813	24.183	0.478504	0.546837	91.093	91.092	0.001
1966	19.388	73.169	46.942	53.782	26.228	0.485691	0.556465	96.649	96.646	0.003
1967	20.954	79.079	50.609	58.126	28.470	0.492874	0.566078	102.682	102.680	0.002
1968	22.670	85.557	54.625	62.887	30.932	0.500061	0.575699	109.235	109.234	0.001
1969	24.554	92.666	59.028	68.113	33.638	0.507248	0.585320	116.369	116.368	0.001
1970	26.624	100.479	63.862	73.855	36.617	0.514427	0.594925	124.142	124.140	0.002

SERVICES V=(0.000467*T+0.4966583)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	21.343	25.567	4.401	4.224	21.166	0.102414	0.098281	42.974	42.972	0.005
1951	22.301	26.714	4.642	4.413	22.073	0.103449	0.098373	44.861	44.858	0.005
1952	23.324	27.939	4.899	4.616	23.040	0.104521	0.098467	46.874	46.872	0.004
1953	24.416	29.248	5.176	4.832	24.072	0.105575	0.098558	49.023	49.021	0.004
1954	25.584	30.646	5.472	5.063	25.174	0.106628	0.098650	51.320	51.317	0.005
1955	26.835	32.145	5.791	5.310	26.354	0.107681	0.098743	53.778	53.776	0.003
1956	28.174	33.749	6.134	5.575	27.615	0.108735	0.098834	56.409	56.408	0.003
1957	29.611	35.470	6.503	5.860	28.968	0.109788	0.098927	59.231	59.229	0.002
1958	31.153	37.318	6.901	6.165	30.417	0.110843	0.099020	62.259	62.256	0.004
1959	32.812	39.304	7.330	6.493	31.974	0.111894	0.099112	65.512	65.509	0.004
1960	34.596	41.441	7.794	6.846	33.647	0.112947	0.099204	69.010	69.006	0.006
1961	36.520	43.746	8.297	7.227	35.449	0.114001	0.099297	72.778	72.775	0.004
1962	38.593	46.229	8.841	7.637	37.389	0.115053	0.099388	76.840	76.837	0.004
1963	40.834	48.914	9.431	8.081	39.483	0.116109	0.099483	81.225	81.223	0.002
1964	43.256	51.815	10.072	8.560	41.744	0.117161	0.099575	85.963	85.961	0.002
1965	45.880	54.958	10.768	9.079	44.190	0.118214	0.099669	91.093	91.092	0.001
1966	48.723	58.364	11.527	9.642	46.837	0.119266	0.099758	96.649	96.646	0.003
1967	51.813	62.065	12.355	10.253	49.710	0.120321	0.099853	102.682	102.680	0.002
1968	55.171	66.088	13.259	10.918	52.830	0.121375	0.099945	109.235	109.234	0.001
1969	58.828	70.469	14.247	11.641	56.223	0.122429	0.100037	116.369	116.368	0.001
1970	62.814	75.244	15.329	12.430	59.915	0.123480	0.100128	124.142	124.140	0.002

MICRO - ECONOMIC MODEL FOR LATIN AMERICA

FOOD

V=(-0.003554*T+0.2865982)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	12.316	19.384	6.518	7.068	12.866	0.151678	0.164473	42.974	42.974	0.001
1951	12.698	19.985	6.744	7.287	13.241	0.150320	0.162437	44.861	44.860	0.001
1952	13.101	20.619	6.982	7.518	13.637	0.148956	0.160397	46.874	46.874	0.000
1953	13.527	21.290	7.236	7.763	14.055	0.147594	0.158358	49.023	49.023	-0.001
1954	13.979	22.001	7.505	8.022	14.496	0.146233	0.156317	51.320	51.319	0.001
1955	14.457	22.754	7.791	8.297	14.963	0.144871	0.154278	53.778	53.777	0.001
1956	14.964	23.552	8.095	8.588	15.457	0.143511	0.152239	56.409	56.410	-0.001
1957	15.502	24.398	8.419	8.896	15.979	0.142145	0.150200	59.231	59.231	0.000
1958	16.073	25.297	8.765	9.224	16.532	0.140783	0.148159	62.259	62.259	0.000
1959	16.680	26.252	9.134	9.572	17.119	0.139420	0.146116	65.512	65.511	0.001
1960	17.325	27.268	9.527	9.943	17.741	0.138060	0.144077	69.010	69.010	0.000
1961	18.013	28.351	9.949	10.338	18.402	0.136698	0.142040	72.778	72.778	0.000
1962	18.745	29.503	10.399	10.758	19.104	0.135336	0.140001	76.840	76.840	0.000
1963	19.526	30.732	10.882	11.206	19.850	0.133974	0.137962	81.225	81.224	0.001
1964	20.360	32.044	11.400	11.684	20.645	0.132612	0.135923	85.963	85.963	0.000
1965	21.251	33.446	11.956	12.196	21.491	0.131248	0.133881	91.093	91.092	0.001
1966	22.204	34.947	12.554	12.743	22.393	0.129889	0.131845	96.649	96.650	-0.001
1967	23.225	36.553	13.197	13.329	23.356	0.128527	0.129805	102.682	102.682	0.000
1968	24.318	38.274	13.891	13.956	24.384	0.127161	0.127762	109.235	109.235	0.000
1969	25.493	40.124	14.640	14.631	25.485	0.125801	0.125725	116.369	116.369	0.000
1970	26.755	42.109	15.448	15.354	26.661	0.124438	0.123684	124.142	124.142	0.000

NON-FOOD

V=(0.003554*T+0.7134094)*YM

	V	Z	U	W	YV	U/Y	W/Y	YM	YVT	ERR%
1950	30.658	56.166	26.058	25.509	30.108	0.606369	0.593575	42.974	42.974	0.001
1951	32.163	58.924	27.305	26.761	31.619	0.608650	0.596527	44.861	44.860	0.001
1952	33.773	61.874	28.637	28.101	33.237	0.610931	0.599495	46.874	46.874	0.000
1953	35.496	65.029	30.061	29.534	34.969	0.613205	0.602440	49.023	49.023	-0.001
1954	37.341	68.410	31.587	31.069	36.823	0.615486	0.605400	51.320	51.319	0.001
1955	39.321	72.037	33.223	32.717	38.814	0.617775	0.608368	53.778	53.777	0.001
1956	41.445	75.930	34.977	34.484	40.953	0.620049	0.611320	56.409	56.410	-0.001
1957	43.729	80.113	36.861	36.384	43.252	0.622330	0.614273	59.231	59.231	0.000
1958	46.186	84.613	38.887	38.428	45.727	0.624603	0.617233	62.259	62.259	0.000
1959	48.831	89.460	41.068	40.629	48.393	0.626877	0.620171	65.512	65.511	0.001
1960	51.685	94.688	43.419	43.004	51.270	0.629173	0.623154	69.010	69.010	0.000
1961	54.766	100.333	45.956	45.567	54.377	0.631447	0.626106	72.778	72.778	0.000
1962	58.095	106.432	48.696	48.337	57.736	0.633728	0.629066	76.840	76.840	0.000
1963	61.698	113.033	51.659	51.335	61.374	0.636002	0.632011	81.225	81.224	0.001
1964	65.603	120.187	54.869	54.584	65.318	0.638283	0.634964	85.963	85.963	0.000
1965	69.842	127.953	58.352	58.112	69.602	0.640572	0.637939	91.093	91.092	0.001
1966	74.445	136.387	62.130	61.941	74.258	0.642838	0.640884	96.649	96.650	-0.001
1967	79.457	145.568	66.243	66.111	79.326	0.645126	0.643845	102.682	102.682	0.000
1968	84.917	155.570	70.719	70.653	84.852	0.647392	0.646797	109.235	109.235	0.000
1969	90.876	166.488	75.604	75.613	90.885	0.649689	0.649765	116.369	116.369	0.000
1970	97.387	178.416	80.937	81.030	97.480	0.651962	0.652718	124.142	124.142	0.000

5. Sectorial Final Demands

F-O MATRIX FOR NORTH AMERICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	247.4805	5.2218	0.0000	7.0284	42.9624	47.7388	0.0000	49.3721	63.1563	31.9985
1951.	271.6484	5.7317	0.0000	7.7147	47.1572	52.4004	0.0000	54.1934	69.3242	35.1230
1952.	280.1367	5.9109	0.0000	7.9558	48.6309	54.0381	0.0000	55.8867	71.4902	36.2207
1953.	292.6172	6.1742	0.0000	8.3103	50.7979	56.4453	0.0000	58.3760	74.6738	37.8350
1954.	289.2930	6.1040	0.0000	8.2158	50.2207	55.8037	0.0000	57.7129	73.8262	37.4053
1955.	313.7578	6.6202	0.0000	8.9106	54.4678	60.5234	0.0000	62.5938	80.0703	40.5684
1956.	318.4219	6.7186	0.0000	9.0431	55.2773	61.4229	0.0000	63.5244	81.2598	41.1709
1957.	327.0938	6.9016	0.0000	9.2894	56.7832	63.0957	0.0000	65.2549	83.4727	42.2920
1958.	323.8047	6.8323	0.0000	9.1959	56.2119	62.4609	0.0000	64.5986	82.6348	41.8672
1959.	344.5391	7.2698	0.0000	9.7848	59.8115	66.4609	0.0000	68.7344	87.9258	44.5479
1960.	353.3125	7.4548	0.0000	10.0339	61.3340	68.1533	0.0000	70.4854	90.1641	45.6826
1961.	362.1250	7.6407	0.0000	10.2843	62.8643	69.8535	0.0000	72.2432	92.4141	46.8223
1962.	387.0977	8.1677	0.0000	10.9935	67.1992	74.6709	0.0000	77.2256	98.7852	50.0508
1963.	404.0937	8.5264	0.0000	11.4762	70.1494	77.9492	0.0000	80.6162	103.1230	52.2480
1964.	425.2070	8.9718	0.0000	12.0758	73.8154	82.0215	0.0000	84.8281	108.5117	54.9785
1965.	454.5234	9.5905	0.0000	12.9083	78.9043	87.6768	0.0000	90.6768	115.9922	58.7686
1966.	488.0312	10.2974	0.0000	13.8600	84.7217	94.1406	0.0000	97.3613	124.5449	63.1016
1967.	501.2969	10.5773	0.0000	14.2367	87.0244	96.6992	0.0000	100.0078	127.9297	64.8164
1968.	526.8672	11.1167	0.0000	14.9629	91.4629	101.6309	0.0000	105.1094	134.4531	68.1230
1969.	544.3594	11.4858	0.0000	15.4597	94.5000	105.0059	0.0000	108.5977	138.9180	70.3848
1970.	541.4062	11.4236	0.0000	15.3757	93.9863	104.4355	0.0000	108.0098	138.1641	70.0020

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	77.5947	0.4035	0.0000	0.7371	0.7604	14.5645	15.6506	44.2051	1.0087	0.2638
1951.	84.8389	0.4412	0.0000	0.8060	0.8314	15.9241	17.1118	48.3320	1.1029	0.2884
1952.	87.1494	0.4532	0.0000	0.8279	0.8540	16.3577	17.5776	49.6484	1.1329	0.2963
1953.	90.6738	0.4715	0.0000	0.8614	0.8886	17.0193	18.2888	51.6563	1.1788	0.3083
1954.	89.2949	0.4643	0.0000	0.8483	0.8751	16.7605	18.0107	50.8711	1.1608	0.3036
1955.	96.4678	0.5016	0.0000	0.9164	0.9454	18.1069	19.4575	54.9570	1.2541	0.3280
1956.	97.5195	0.5071	0.0000	0.9264	0.9557	18.3042	19.6697	55.5566	1.2677	0.3316
1957.	99.7842	0.5189	0.0000	0.9480	0.9779	18.7295	20.1265	56.8467	1.2972	0.3393
1958.	98.3965	0.5117	0.0000	0.9348	0.9643	18.4690	19.8464	56.0586	1.2791	0.3345
1959.	104.2891	0.5423	0.0000	0.9907	1.0220	19.5750	21.0349	59.4131	1.3558	0.3546
1960.	106.5283	0.5539	0.0000	1.0120	1.0440	19.9954	21.4866	60.6885	1.3849	0.3622
1961.	108.7598	0.5656	0.0000	1.0332	1.0658	20.4141	21.9368	61.9600	1.4139	0.3698
1962.	115.8076	0.6022	0.0000	1.1002	1.1349	21.7371	23.3584	65.9756	1.5055	0.3937
1963.	120.4219	0.6262	0.0000	1.1440	1.1801	22.6030	24.2891	68.6045	1.5655	0.4094
1964.	126.2217	0.6563	0.0000	1.1991	1.2370	23.6917	25.4587	71.9082	1.6409	0.4292
1965.	134.4004	0.6989	0.0000	1.2768	1.3171	25.2266	27.1084	76.5664	1.7472	0.4570
1966.	143.7461	0.7475	0.0000	1.3656	1.4087	26.9810	28.9932	81.8906	1.8687	0.4887
1967.	147.0801	0.7648	0.0000	1.3972	1.4414	27.6069	29.6660	83.7910	1.9120	0.5001
1968.	153.9844	0.8007	0.0000	1.4628	1.5090	28.9028	31.0586	87.7246	2.0018	0.5235
1969.	158.4766	0.8241	0.0000	1.5055	1.5530	29.7461	31.9644	90.2832	2.0602	0.5388
1970.	157.0078	0.8164	0.0000	1.4916	1.5387	29.4702	31.6685	89.4473	2.0411	0.5338

F-D MATRIX FOR NORTH AMERICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY. 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	73.8213	0.0000	0.0000	0.0000	0.0000	27.0107	40.1797	1.0113	4.2521	1.3657
1951.	80.5537	0.0000	0.0000	0.0000	0.0000	29.4741	43.8447	1.1036	4.6399	1.4902
1952.	82.5611	0.0000	0.0000	0.0000	0.0000	30.2158	44.9482	1.1313	4.7567	1.5277
1953.	85.7490	0.0000	0.0000	0.0000	0.0000	31.3750	46.6729	1.1748	4.9391	1.5863
1954.	84.2744	0.0000	0.0000	0.0000	0.0000	30.8354	45.8701	1.1546	4.8542	1.5591
1955.	90.8594	0.0000	0.0000	0.0000	0.0000	33.2451	49.4541	1.2448	5.2335	1.6809
1956.	91.6631	0.0000	0.0000	0.0000	0.0000	33.5391	49.8916	1.2558	5.2798	1.6958
1957.	93.5986	0.0000	0.0000	0.0000	0.0000	34.2476	50.9453	1.2823	5.3912	1.7316
1958.	92.1064	0.0000	0.0000	0.0000	0.0000	33.7012	50.1328	1.2619	5.3053	1.7039
1959.	97.4199	0.0000	0.0000	0.0000	0.0000	35.6455	53.0244	1.3346	5.6114	1.8023
1960.	99.5047	0.0000	0.0000	0.0000	0.0000	36.3350	54.0508	1.3605	5.7199	1.8371
1961.	101.1719	0.0000	0.0000	0.0000	0.0000	37.0186	55.0674	1.3860	5.8275	1.8717
1962.	107.5000	0.0000	0.0000	0.0000	0.0000	39.3340	58.5117	1.4727	6.1920	1.9887
1963.	111.5469	0.0000	0.0000	0.0000	0.0000	40.8145	60.7139	1.5282	6.4250	2.0636
1964.	116.6689	0.0000	0.0000	0.0000	0.0000	42.6885	63.5020	1.5984	6.7201	2.1584
1965.	123.9619	0.0000	0.0000	0.0000	0.0000	45.3574	67.4717	1.6983	7.1402	2.2933
1966.	132.2969	0.0000	0.0000	0.0000	0.0000	48.4063	72.0078	1.8124	7.6202	2.4474
1967.	135.0703	0.0000	0.0000	0.0000	0.0000	49.4219	73.5176	1.8505	7.7800	2.4988
1968.	141.1016	0.0000	0.0000	0.0000	0.0000	51.6279	76.8008	1.9331	8.1274	2.6104
1969.	144.9004	0.0000	0.0000	0.0000	0.0000	53.0186	78.8672	1.9851	8.3462	2.6807
1970.	143.2383	0.0000	0.0000	0.0000	0.0000	52.4102	77.9629	1.9623	8.2505	2.6499

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	16.5469	2.3660	2.3430	2.3926	2.9983	6.4268	0.0000	0.0000	0.0000	0.0000
1951.	18.6777	2.6933	2.6447	2.7007	3.3844	7.2544	0.0000	0.0000	0.0000	0.0000
1952.	19.7900	2.8537	2.8022	2.8616	3.5859	7.6864	0.0000	0.0000	0.0000	0.0000
1953.	21.2212	3.0601	3.0049	3.0685	3.8453	8.2423	0.0000	0.0000	0.0000	0.0000
1954.	21.5215	3.1033	3.0474	3.1120	3.8997	8.3589	0.0000	0.0000	0.0000	0.0000
1955.	23.9258	3.4501	3.3879	3.4597	4.3353	9.2927	0.0000	0.0000	0.0000	0.0000
1956.	24.8721	3.5865	3.5219	3.5965	4.5068	9.6603	0.0000	0.0000	0.0000	0.0000
1957.	26.1533	3.7712	3.7032	3.7817	4.7390	10.1580	0.0000	0.0000	0.0000	0.0000
1958.	26.4856	3.8192	3.7503	3.8298	4.7991	10.2870	0.0000	0.0000	0.0000	0.0000
1959.	28.8123	4.1547	4.0798	4.1662	5.2208	11.1907	0.0000	0.0000	0.0000	0.0000
1960.	30.1899	4.3533	4.2748	4.3654	5.4704	11.7257	0.0000	0.0000	0.0000	0.0000
1961.	31.5399	4.5566	4.4745	4.5693	5.7259	12.2733	0.0000	0.0000	0.0000	0.0000
1962.	34.4795	4.9717	4.8821	4.9855	6.2474	13.3914	0.0000	0.0000	0.0000	0.0000
1963.	36.7192	5.2948	5.1993	5.3096	6.6534	14.2617	0.0000	0.0000	0.0000	0.0000
1964.	39.3994	5.6813	5.5789	5.6971	7.1382	15.3027	0.0000	0.0000	0.0000	0.0000
1965.	42.9268	6.1899	6.0784	6.2072	7.7783	16.6726	0.0000	0.0000	0.0000	0.0000
1966.	46.9580	6.7712	6.6492	6.7900	8.5088	18.2385	0.0000	0.0000	0.0000	0.0000
1967.	44.1211	7.0831	6.9554	7.1029	8.9026	19.0786	0.0000	0.0000	0.0000	0.0000
1968.	52.5547	7.5782	7.4417	7.5994	9.5228	20.4121	0.0000	0.0000	0.0000	0.0000
1969.	55.2539	7.9675	7.8239	7.9896	10.0128	21.4604	0.0000	0.0000	0.0000	0.0000
1970.	55.8999	8.0607	7.9154	8.0830	10.1290	21.7114	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR NORTH AMERICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	18.7871	1.5950	0.1409	0.3588	1.4729	9.8293	0.0000	2.4573	2.7448	0.1679
1951.	20.3574	1.7283	0.1527	0.3886	1.5960	10.6509	0.0000	2.6627	2.9742	0.2036
1952.	21.4929	1.8247	0.1612	0.4105	1.6850	11.2449	0.0000	2.8112	3.1401	0.2149
1953.	22.6721	1.9248	0.1700	0.4330	1.7775	11.8621	0.0000	2.9655	3.3123	0.2267
1954.	23.5305	1.9977	0.1765	0.4494	1.8443	12.3110	0.0000	3.0778	3.4377	0.2353
1955.	25.4646	2.1619	0.1910	0.4864	1.9964	13.3230	0.0000	3.3307	3.7203	0.2546
1956.	26.7344	2.2697	0.2005	0.5106	2.0959	13.9873	0.0000	3.4968	3.9058	0.2673
1957.	28.0378	2.3804	0.2103	0.5355	2.1982	14.6692	0.0000	3.6673	4.0963	0.2804
1958.	28.9683	2.4594	0.2173	0.5533	2.2711	15.1560	0.0000	3.7890	4.2322	0.2897
1959.	30.8462	2.6188	0.2313	0.5892	2.4183	16.1387	0.0000	4.0347	4.5066	0.3085
1960.	32.6084	2.7684	0.2446	0.6228	2.5565	17.0605	0.0000	4.2651	4.7640	0.3261
1961.	34.1323	2.8978	0.2560	0.6519	2.6759	17.8579	0.0000	4.4645	4.9867	0.3413
1962.	36.1211	3.0667	0.2709	0.6899	2.8318	18.8984	0.0000	4.7246	5.2772	0.3612
1963.	38.0562	3.2310	0.2854	0.7269	2.9836	19.9106	0.0000	4.9777	5.5599	0.3806
1964.	40.8833	3.4709	0.3066	0.7809	3.2052	21.3901	0.0000	5.3475	5.9729	0.4088
1965.	43.4858	3.6919	0.3261	0.8306	3.4092	22.7515	0.0000	5.6879	6.3531	0.4349
1966.	46.5005	3.9479	0.3488	0.8882	3.6456	24.3286	0.0000	6.0822	6.7936	0.4650
1967.	48.8130	4.1442	0.3661	0.9323	3.8269	25.5386	0.0000	6.3846	7.1315	0.4881
1968.	51.9165	4.4077	0.3894	0.9916	4.0702	27.1626	0.0000	6.7906	7.5848	0.5192
1969.	55.0210	4.6713	0.4127	1.0509	4.3136	28.7866	0.0000	7.1967	8.0385	0.5502
1970.	57.5786	4.8884	0.4318	1.0997	4.5141	30.1250	0.0000	7.5313	8.4121	0.5758

F-O MATRIX FOR NORTH AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	247.4805	48.1641	7.0284	47.7388	144.5254
1951.	271.6484	52.8687	7.7147	52.4004	158.6646
1952.	280.1367	54.5415	7.9558	54.0381	163.5977
1953.	292.6172	56.9717	8.3103	56.4453	170.8825
1954.	289.2930	56.3247	8.2158	55.8037	168.9484
1955.	313.7578	61.0679	8.9106	60.5234	183.2324
1956.	318.4219	61.9956	9.0431	61.4229	185.9531
1957.	327.0938	63.6846	9.2894	63.0957	191.0176
1958.	323.8047	63.0439	9.1959	62.4609	189.0996
1959.	344.5391	67.0811	9.7848	66.4609	201.2070
1960.	353.3125	68.7881	10.0339	68.1533	206.3301
1961.	362.1250	70.5049	10.2843	69.8535	211.4785
1962.	387.0977	75.3662	10.9935	74.6709	226.0605
1963.	404.0937	78.6758	11.4762	77.9492	235.9863
1964.	425.2070	82.7871	12.0758	82.0215	248.3184
1965.	454.5234	88.4941	12.9083	87.6768	265.4336
1966.	488.0312	95.0186	13.8600	94.1406	285.0078
1967.	501.2969	97.6016	14.2367	96.6992	292.7539
1968.	526.8672	102.5791	14.9629	101.6309	307.6836
1969.	544.3594	105.9854	15.4597	105.0059	317.8984
1970.	541.4062	105.4092	15.3757	104.4355	316.1758

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	77.5947	1.1639	0.7371	30.2151	45.4771
1951.	84.8389	1.2726	0.8060	33.0356	49.7227
1952.	87.1484	1.3072	0.8279	33.9351	51.0771
1953.	90.6738	1.3601	0.8614	35.3081	53.1431
1954.	89.2949	1.3394	0.8483	34.7710	52.3350
1955.	96.4674	1.4470	0.9164	37.5645	56.5396
1956.	97.5195	1.4628	0.9264	37.9736	57.1566
1957.	99.7842	1.4967	0.9480	38.8560	58.4834
1958.	98.4965	1.4759	0.9348	38.3154	57.6704
1959.	104.2891	1.5643	0.9907	40.6094	61.1247
1960.	106.5283	1.5979	1.0120	41.4819	62.4351
1961.	108.7598	1.6314	1.0332	42.3506	63.7432
1962.	115.8076	1.7371	1.1002	45.0952	67.8749
1963.	120.4219	1.8063	1.1440	46.8921	70.5741
1964.	126.2217	1.8933	1.1991	49.1504	73.9775
1965.	134.4004	2.0160	1.2768	52.3350	78.7695
1966.	143.7461	2.1562	1.3656	55.9741	84.2471
1967.	147.0801	2.2062	1.3972	57.2729	86.2021
1968.	153.9844	2.3098	1.4628	59.9614	90.2490
1969.	158.4766	2.3771	.5055	61.7104	92.8809
1970.	157.0078	2.3551	1.4916	61.1387	92.0215

F-D MATRIX FOR NORTH AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	73.8213	0.0000	0.0000	67.1904	6.6290
1951.	80.5537	0.0000	0.0000	73.3184	7.2337
1952.	82.5811	0.0000	0.0000	75.1641	7.4157
1953.	85.7490	0.0000	0.0000	78.0479	7.7001
1954.	84.2744	0.0000	0.0000	76.7051	7.5678
1955.	90.8594	0.0000	0.0000	82.6992	8.1591
1956.	91.6631	0.0000	0.0000	83.4307	8.2312
1957.	93.5986	0.0000	0.0000	85.1924	8.4050
1958.	92.1064	0.0000	0.0000	83.8340	8.2710
1959.	97.4199	0.0000	0.0000	88.6699	8.7482
1960.	99.3047	0.0000	0.0000	90.3857	8.9175
1961.	101.1719	0.0000	0.0000	92.0859	9.0851
1962.	107.5000	0.0000	0.0000	97.8457	9.6533
1963.	111.5469	0.0000	0.0000	101.5283	10.0167
1964.	116.6689	0.0000	0.0000	106.1904	10.4767
1965.	123.9619	0.0000	0.0000	112.8291	11.1316
1966.	132.2969	0.0000	0.0000	120.4141	11.8800
1967.	135.0703	0.0000	0.0000	122.9395	12.1293
1968.	141.1016	0.0000	0.0000	128.4277	12.6708
1969.	144.9004	0.0000	0.0000	131.8848	13.0120
1970.	143.2383	0.0000	0.0000	130.3730	12.8627

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	16.5469	5.3843	4.7357	6.4268	0.0000
1951.	18.6777	6.0777	5.3455	7.2544	0.0000
1952.	19.7900	6.4396	5.6639	7.6864	0.0000
1953.	21.2212	6.9053	6.0734	8.2423	0.0000
1954.	21.5215	7.0030	6.1594	8.3589	0.0000
1955.	23.9258	7.7854	6.8475	9.2927	0.0000
1956.	24.8721	8.0933	7.1183	9.6603	0.0000
1957.	26.1533	8.5101	7.4850	10.1580	0.0000
1958.	26.4856	8.6183	7.5801	10.2870	0.0000
1959.	28.8123	9.3754	8.2460	11.1907	0.0000
1960.	30.1899	9.8237	8.6403	11.7257	0.0000
1961.	31.5999	10.2825	9.0438	12.2733	0.0000
1962.	34.4785	11.2191	9.8676	13.3914	0.0000
1963.	36.7192	11.9482	10.5089	14.2617	0.0000
1964.	39.3994	12.8204	11.2760	15.3027	0.0000
1965.	42.9268	13.9683	12.2855	16.6726	0.0000
1966.	46.9580	15.2800	13.4392	18.2385	0.0000
1967.	49.1211	15.9838	14.0583	19.0786	0.0000
1968.	52.5547	17.1011	15.0410	20.4121	0.0000
1969.	55.2539	17.9795	15.8135	21.4604	0.0000
1970.	56.8999	18.1897	15.9984	21.7114	0.0000

F-D MATRIX FOR NORTH AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	18.7871	3.0679	0.4997	9.8293	5.3900
1951.	20.3574	3.3243	0.5415	10.6509	5.8405
1952.	21.4929	3.5098	0.5717	11.2449	6.1662
1953.	22.6721	3.7023	0.6031	11.8621	6.5045
1954.	23.5305	3.8425	0.6259	12.3110	6.7508
1955.	25.4646	4.1583	0.6773	13.3230	7.3057
1956.	26.7344	4.3657	0.7111	13.9873	7.6700
1957.	28.0378	4.5786	0.7458	14.6692	8.0438
1958.	28.9683	4.7305	0.7705	15.1560	8.3108
1959.	30.8462	5.0371	0.8205	16.1387	8.8496
1960.	32.6084	5.3249	0.8674	17.0605	9.3552
1961.	34.1323	5.5737	0.9079	17.8579	9.7925
1962.	36.1211	5.8985	0.9608	18.8984	10.3630
1963.	38.0562	6.2145	1.0123	19.9106	10.9187
1964.	40.8833	6.6761	1.0875	21.3901	11.7292
1965.	43.4858	7.1011	1.1567	22.7515	12.4758
1966.	46.5005	7.5934	1.2369	24.3286	13.3407
1967.	48.8130	7.9711	1.2984	25.5386	14.0042
1968.	51.9165	8.4778	1.3810	27.1626	14.8945
1969.	55.0210	8.9849	1.4635	28.7866	15.7853
1970.	57.5786	9.4025	1.5316	30.1250	16.5190

F-D MATRIX FOR NORTH AMERICA

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	247.4805	48.1841	199.2910
1951.	271.6484	52.8887	218.7539
1952.	280.1367	54.5415	225.5898
1953.	292.6172	56.9717	235.6367
1954.	289.2930	56.3247	232.9629
1955.	313.7578	61.0879	252.6660
1956.	318.4219	61.9956	256.4180
1957.	327.0938	63.6846	263.4023
1958.	323.8047	63.0439	260.7539
1959.	344.5391	67.0811	277.4492
1960.	353.3125	68.7881	284.5156
1961.	362.1250	70.5049	291.6133
1962.	387.0977	75.3662	311.7227
1963.	404.0937	78.6758	325.4102
1964.	425.2070	82.7871	342.4141
1965.	454.5234	88.4941	366.0156
1966.	488.0312	95.0186	393.0078
1967.	501.2969	97.6016	403.6875
1968.	526.8672	102.5791	424.2773
1969.	544.3594	105.9854	438.3633
1970.	541.4062	105.4092	435.9844

GOVERNMENT

YEAR	CALC	I	II
1950.	77.5947	1.1639	76.4287
1951.	84.8389	1.2726	83.5635
1952.	87.1484	1.3072	85.8398
1953.	90.6738	1.3601	89.3125
1954.	89.2949	1.3394	87.9541
1955.	96.4678	1.4470	95.0186
1956.	97.5195	1.4628	96.0557
1957.	99.7842	1.4967	98.2861
1958.	98.3965	1.4759	96.9199
1959.	104.2891	1.5643	102.7236
1960.	106.5283	1.5979	104.9287
1961.	108.7598	1.6314	107.1270
1962.	115.8076	1.7371	114.0693
1963.	120.4219	1.8063	118.6143
1964.	126.2217	1.8933	124.3262
1965.	134.4004	2.0160	132.3809
1966.	143.7461	2.1562	141.5859
1967.	147.0801	2.2062	144.8711
1968.	153.9844	2.3098	151.6719
1969.	158.4766	2.3771	156.0957
1970.	157.0078	2.3551	154.6504

F-O MATRIX FOR NORTH AMERICA

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	73.8213	0.0000	73.8193
1951.	80.5537	0.0000	80.5518
1952.	82.5811	0.0000	82.5791
1953.	85.7490	0.0000	85.7471
1954.	84.2744	0.0000	84.2725
1955.	90.8594	0.0000	90.8574
1956.	91.6631	0.0000	91.6611
1957.	93.5986	0.0000	93.5967
1958.	92.1064	0.0000	92.1045
1959.	97.4199	0.0000	97.4180
1960.	99.3047	0.0000	99.3027
1961.	101.1719	0.0000	101.1709
1962.	107.5000	0.0000	107.4990
1963.	111.5469	0.0000	111.5449
1964.	116.6689	0.0000	116.6670
1965.	123.9619	0.0000	123.9600
1966.	132.2969	0.0000	132.2930
1967.	135.0703	0.0000	135.0684
1968.	141.1016	0.0000	141.0977
1969.	144.9004	0.0000	144.8965
1970.	143.2383	0.0000	143.2344

IMPORTS

YEAR	CALC	I	II
1950.	16.5449	5.3843	11.1624
1951.	18.6777	6.0777	12.5999
1952.	19.7900	6.4396	13.3502
1953.	21.2212	6.9053	14.3157
1954.	21.5215	7.0030	14.5183
1955.	23.9258	7.7854	16.1401
1956.	24.8721	8.0933	16.7786
1957.	26.1533	8.5101	17.6428
1958.	26.4856	8.6183	17.8669
1959.	28.8123	9.3754	19.4365
1960.	30.1899	9.8237	20.3660
1961.	31.5999	10.2825	21.3171
1962.	34.4785	11.2191	23.2594
1963.	36.7192	11.9482	24.7705
1964.	39.3994	12.8204	26.5786
1965.	42.9268	13.9683	28.9580
1966.	46.9580	15.2800	31.6777
1967.	49.1711	15.9838	33.1867
1968.	52.5547	17.1011	35.4531
1969.	55.2539	17.9795	37.2739
1970.	55.8999	18.1897	37.7095

F-D MATRIX FOR NORTH AMERICA

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	18.7871	3.0679	15.7189
1951.	20.3574	3.3243	17.0327
1952.	21.4929	3.5098	17.9827
1953.	22.6721	3.7023	18.9695
1954.	23.5305	3.8425	19.6875
1955.	25.4646	4.1583	21.3059
1956.	26.7344	4.3657	22.3682
1957.	28.0378	4.5786	23.4587
1958.	28.9683	4.7305	24.2373
1959.	30.8462	5.0371	25.8086
1960.	32.6084	5.3249	27.2830
1961.	34.1323	5.5737	28.5581
1962.	36.1211	5.8985	30.2222
1963.	38.0562	6.2145	31.8408
1964.	40.8833	6.6761	34.2065
1965.	43.4858	7.1011	36.3838
1966.	46.5005	7.5934	38.9058
1967.	48.8130	7.9711	40.8408
1968.	51.9165	8.4778	43.4380
1969.	55.0210	8.9849	46.0352
1970.	57.5786	9.4025	48.1753

F-D MATRIX FOR WESTERN EUROPE

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	147.9043	12.3794	0.0000	6.0493	37.3301	30.9858	0.5472	24.8032	9.4954	26.3120
1951.	153.0449	12.8098	0.0000	6.2595	38.6279	32.0625	0.5663	25.6655	9.8254	27.2266
1952.	160.8867	13.4661	0.0000	6.5802	40.6074	33.7056	0.5953	26.9805	10.3289	28.6216
1953.	169.6934	14.1196	0.0000	6.8995	42.5771	35.3408	0.6242	28.2896	10.8301	30.0103
1954.	176.4648	14.7700	0.0000	7.2174	44.5391	36.9692	0.6529	29.5928	11.3291	31.3931
1955.	186.9082	15.6440	0.0000	7.6445	47.1748	39.1567	0.6916	31.3442	11.9995	33.2510
1956.	197.3027	16.5142	0.0000	8.0697	49.7988	41.3345	0.7300	33.0874	12.6667	35.1001
1957.	204.9512	17.1543	0.0000	8.3824	51.7295	42.9370	0.7583	34.3701	13.1577	36.4604
1958.	207.1836	17.3411	0.0000	8.4738	52.2930	43.4048	0.7666	34.7446	13.3013	36.8579
1959.	217.4570	18.2012	0.0000	8.8939	54.8857	45.5566	0.8046	36.4673	13.9607	38.6855
1960.	233.0410	19.5054	0.0000	9.5314	58.8193	48.8218	0.8622	39.0806	14.9612	41.4580
1961.	245.8789	20.5801	0.0000	10.0564	62.0596	51.5112	0.9097	41.2334	15.7854	43.7417
1962.	255.9883	21.4260	0.0000	10.4700	64.6104	53.6289	0.9472	42.9287	16.4343	45.5400
1963.	266.0508	22.2681	0.0000	10.8813	67.1504	55.7373	0.9844	44.6162	17.0806	47.3301
1964.	281.3750	23.5508	0.0000	11.5083	71.0176	58.9473	1.0411	47.1865	18.0640	50.0566
1965.	293.9766	24.6055	0.0000	12.0237	74.1992	61.5879	1.0877	49.2998	18.8730	52.2979
1966.	303.8750	25.4341	0.0000	12.4285	76.6973	63.6611	1.1243	50.9590	19.5088	54.0586
1967.	313.7266	26.2588	0.0000	12.8313	79.1836	65.7246	1.1608	52.6113	20.1411	55.8115
1968.	328.7930	27.5200	0.0000	13.4475	82.9863	68.8818	1.2165	55.1377	21.1084	58.4922
1969.	349.0313	29.2139	0.0000	14.2754	88.0938	73.1211	1.2914	58.5322	22.4077	62.0918
1970.	363.9375	30.4614	0.0000	14.8850	91.8574	76.2441	1.3466	61.0322	23.3647	64.7441

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	38.8936	0.0972	0.0000	1.3224	0.3859	6.3008	2.3725	27.0503	0.0000	1.3613
1951.	39.8921	0.0997	0.0000	1.3563	0.3959	6.4625	2.4334	27.7446	0.0000	1.3962
1952.	41.5635	0.1039	0.0000	1.4131	0.4126	6.7333	2.5353	28.9072	0.0000	1.4547
1953.	43.1875	0.1080	0.0000	1.4684	0.4319	6.9963	2.6344	30.0366	0.0000	1.5115
1954.	44.7642	0.1119	0.0000	1.5220	0.4476	7.2517	2.7306	31.1333	0.0000	1.5667
1955.	46.9741	0.1174	0.0000	1.5971	0.4697	7.6097	2.8654	32.6704	0.0000	1.6441
1956.	49.1211	0.1228	0.0000	1.6701	0.4912	7.9576	2.9964	34.1636	0.0000	1.7192
1957.	50.5400	0.1263	0.0000	1.7184	0.5054	8.1875	3.0829	35.1504	0.0000	1.7689
1958.	50.5972	0.1265	0.0000	1.7203	0.5060	8.1967	3.0864	35.1904	0.0000	1.7709
1959.	52.5859	0.1315	0.0000	1.7879	0.5259	8.5189	3.2077	36.5732	0.0000	1.8405
1960.	55.7949	0.1395	0.0000	1.8970	0.5579	9.0387	3.4035	38.8052	0.0000	1.9528
1961.	58.2749	0.1457	0.0000	1.9813	0.5827	9.4406	3.5547	40.5303	0.0000	2.0396
1962.	60.0508	0.1501	0.0000	2.0417	0.6005	9.7281	3.6631	41.7651	0.0000	2.1017
1963.	61.7637	0.1544	0.0000	2.0999	0.6176	10.0057	3.7675	42.9565	0.0000	2.1617
1964.	64.6628	0.1616	0.0000	2.1975	0.6463	10.4705	3.9426	44.9521	0.0000	2.2621
1965.	66.8057	0.1670	0.0000	2.2714	0.6680	10.8225	4.0751	46.4629	0.0000	2.3281
1966.	68.3057	0.1708	0.0000	2.3223	0.6836	11.0654	4.1666	47.5059	0.0000	2.3907
1967.	69.7422	0.1744	0.0000	2.3712	0.6974	11.2981	4.2542	48.5059	0.0000	2.4409
1968.	72.2715	0.1807	.0000	2.4572	0.7227	11.7080	085	50.2646	0.0000	2.5295
1969.	75.8467	0.1896	0.0000	2.5787	0.7585	12.2871	4.6266	52.7510	0.0000	2.6546
1970.	78.1719	0.1954	0.0000	2.6578	0.7817	12.6638	4.7684	54.3682	0.0000	2.7440

F-D MATRIX FOR WESTERN EUROPE

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	38.2949	0.0498	0.0000	0.0306	0.0038	17.0527	19.5264	0.6242	0.0000	1.0071
1951.	40.7227	0.0529	0.0000	0.0326	0.0041	18.1338	20.7642	0.6638	0.0000	1.0710
1952.	43.9673	0.0572	0.0000	0.0352	0.0044	19.5786	22.4189	0.7167	0.0000	1.1563
1953.	47.3198	0.0615	0.0000	0.0379	0.0047	21.0715	24.1284	0.7713	0.0000	1.2445
1954.	50.7808	0.0660	0.0000	0.0406	0.0051	22.6125	25.8931	0.8277	0.0000	1.3355
1955.	55.1494	0.0717	0.0000	0.0441	0.0055	24.5579	28.1206	0.8989	0.0000	1.4504
1956.	59.6616	0.0776	0.0000	0.0477	0.0060	26.5674	30.4214	0.9725	0.0000	1.5691
1957.	63.4829	0.0825	0.0000	0.0508	0.0063	28.2688	32.3701	1.0348	0.0000	1.6696
1958.	65.7061	0.0854	0.0000	0.0526	0.0066	29.2588	33.5029	1.0710	0.0000	1.7281
1959.	70.5781	0.0918	0.0000	0.0565	0.0071	31.4282	35.9873	1.1504	0.0000	1.8562
1960.	77.3740	0.1006	0.0000	0.0619	0.0077	34.4546	39.4531	1.2612	0.0000	2.0349
1961.	83.4785	0.1085	0.0000	0.0668	0.0083	37.1729	42.5654	1.3607	0.0000	2.1955
1962.	88.8379	0.1155	0.0000	0.0711	0.0089	39.5596	45.2979	1.4480	0.0000	2.3364
1963.	94.3418	0.1226	0.0000	0.0755	0.0094	42.0103	48.1045	1.5378	0.0000	2.4812
1964.	101.9121	0.1325	0.0000	0.0815	0.0102	45.3813	51.9648	1.6612	0.0000	2.6803
1965.	108.7197	0.1413	0.0000	0.0870	0.0109	48.4126	55.4355	1.7721	0.0000	2.8593
1966.	114.7090	0.1491	0.0000	0.0918	0.0115	51.0796	58.4902	1.8698	0.0000	3.0168
1967.	120.8438	0.1571	0.0000	0.0967	0.0121	53.8115	61.6182	1.9697	0.0000	3.1782
1968.	129.1695	0.1679	0.0000	0.1033	0.0129	57.5273	65.8730	2.1058	0.0000	3.3976
1969.	139.8535	0.1818	0.0000	0.1119	0.0140	62.2764	71.3105	2.2796	0.0000	3.6781
1970.	148.6680	0.1933	0.0000	0.1189	0.0149	66.2012	75.8047	2.4233	0.0000	3.9099

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	28.9009	8.5748	0.8266	4.7397	2.6473	10.4794	0.0000	1.0549	0.0000	0.5780
1951.	31.4277	9.3246	0.8988	5.1541	2.8788	11.3956	0.0000	1.1471	0.0000	0.6285
1952.	34.6460	10.2793	0.9909	5.6819	3.1736	12.5625	0.0000	1.2646	0.0000	0.6929
1953.	38.0200	11.2805	1.0874	6.2352	3.4826	13.7859	0.0000	1.3877	0.0000	0.7604
1954.	41.5503	12.3279	1.1883	6.8142	3.8060	15.0659	0.0000	1.5166	0.0000	0.8310
1955.	45.9019	13.6189	1.3128	7.5278	4.2046	16.6438	0.0000	1.6754	0.0000	0.9180
1956.	50.4619	14.9719	1.4432	8.2756	4.6233	18.2974	0.0000	1.8419	0.0000	1.0092
1957.	54.5122	16.1736	1.5590	8.9399	4.9933	19.7659	0.0000	1.9897	0.0000	1.0902
1958.	57.2319	16.9805	1.6368	9.3868	5.2424	20.7522	0.0000	2.0890	0.0000	1.1446
1959.	62.3120	18.4878	1.7821	10.2191	5.7078	22.5940	0.0000	2.2744	0.0000	1.2462
1960.	69.1904	20.5283	1.9788	11.3472	6.3376	25.0879	0.0000	2.5254	0.0000	1.3838
1961.	75.5596	22.4185	2.1610	12.3916	6.9213	27.3975	0.0000	2.7579	0.0000	1.5112
1962.	81.3418	24.1338	2.3264	13.3398	7.4509	29.4941	0.0000	2.9689	0.0000	1.6268
1963.	87.3320	25.9111	2.4977	14.3223	7.9996	31.6660	0.0000	3.1876	0.0000	1.7465
1964.	95.3291	28.2837	2.7264	15.6338	8.7322	34.5659	0.0000	3.4795	0.0000	1.9066
1965.	102.7129	30.4746	2.9376	16.8447	9.4084	37.2432	0.0000	3.7490	0.0000	2.0542
1966.	109.4053	32.4604	3.1290	17.9424	10.0215	39.6699	0.0000	3.9933	0.0000	2.1881
1967.	116.3057	34.5078	3.3263	19.0740	10.6536	42.1719	0.0000	4.2451	0.0000	2.3261
1968.	125.4209	37.2119	3.5870	20.5686	11.4845	45.4771	0.0000	4.5778	0.0000	2.5084
1969.	136.9063	40.6191	3.9155	22.4521	12.5405	49.6416	0.0000	4.9971	0.0000	2.7381
1970.	146.6992	43.5254	4.[illegible]56	24.0586	13.4375	53.1924	[illegible]	[illegible]	[illegible]	[illegible]

F-O MATRIX FOR WESTERN EUROPE

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	31.3635	0.5426	0.0063	1.3486	1.6717	20.2388	0.2791	5.3631	0.0000	1.9132
1951.	35.0103	0.6057	0.0070	1.5054	1.8660	22.5918	0.3116	5.9867	0.0000	2.1356
1952.	38.0303	0.6579	0.0076	1.6353	2.0270	24.5405	0.3385	6.5031	0.0000	2.3198
1953.	41.2271	0.7132	0.0082	1.7728	2.1974	26.6035	0.3669	7.0498	0.0000	2.5148
1954.	43.9238	0.7599	0.0088	1.8887	2.3411	28.3438	0.3909	7.5109	0.0000	2.6793
1955.	48.7461	0.8433	0.0097	2.0961	2.5981	31.4556	0.4338	8.3354	0.0000	2.9735
1956.	52.4326	0.9071	0.0105	2.2546	2.7946	33.8345	0.4667	8.9659	0.0000	3.1984
1957.	56.2876	0.9738	0.0113	2.4203	3.0001	36.3223	0.5010	9.6251	0.0000	3.4335
1958.	59.4790	1.0290	0.0119	2.5576	3.1702	38.3818	0.5294	10.1708	0.0000	3.6282
1959.	64.7256	1.1197	0.0129	2.7832	3.4498	41.7666	0.5760	11.0679	0.0000	3.9482
1960.	69.8740	1.2086	0.0140	3.0046	3.7242	45.0889	0.6219	11.9482	0.0000	4.2623
1961.	74.6377	1.2912	0.0149	3.2094	3.9781	48.1631	0.6643	12.7629	0.0000	4.5529
1962.	80.5508	1.3935	0.0161	3.4637	4.2933	51.9795	0.7169	13.7739	0.0000	4.9136
1963.	86.4922	1.4963	0.0173	3.7192	4.6100	55.8135	0.7698	14.7900	0.0000	5.2760
1964.	94.6426	1.6373	0.0189	4.0696	5.0444	61.0723	0.8423	16.1836	0.0000	5.7731
1965.	102.4775	1.7728	0.0205	4.4066	5.4626	66.1289	0.9120	17.5234	0.0000	6.2511
1966.	111.4941	1.9288	0.0223	4.7943	5.9426	71.9473	0.9923	19.0654	0.0000	6.8011
1967.	119.0195	2.0590	0.0238	5.1179	6.3437	76.8027	1.0593	20.3521	0.0000	7.2601
1968.	128.6680	2.2259	0.0257	5.5327	6.8579	83.0293	1.1451	22.0020	0.0000	7.8486
1969.	138.5391	2.3967	0.0277	5.9572	7.3840	89.3984	1.2330	23.6899	0.0000	8.4508
1970.	147.2266	2.5470	0.0294	6.3307	7.8470	95.0039	1.3103	25.1753	0.0000	8.9807

F-D MATRIX FOR WESTERN EUROPE

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	147.9043	49.7095	6.0493	31.5330	60.6104
1951.	153.0449	51.4375	6.2595	32.6284	62.7173
1952.	160.8867	54.0732	6.5802	34.3008	65.9307
1953.	168.6934	56.6968	6.8995	35.9648	69.1299
1954.	176.4648	59.3091	7.2174	37.6221	72.3145
1955.	186.9082	62.8188	7.6445	39.8481	76.5947
1956.	197.3027	66.3125	8.0697	42.0645	80.8535
1957.	204.9512	68.8838	8.3824	43.6953	83.9883
1958.	207.1836	69.6338	8.4738	44.1709	84.9033
1959.	217.4570	73.0869	8.8939	46.3608	89.1133
1960.	233.0410	78.3242	9.5314	49.6836	95.4990
1961.	245.8789	82.6396	10.0564	52.4209	100.7598
1962.	255.9883	86.0361	10.4700	54.5757	104.9023
1963.	266.0508	89.4180	10.8813	56.7217	109.0264
1964.	281.3750	94.5684	11.5083	59.9883	115.3066
1965.	293.9766	98.8047	12.0237	62.6753	120.4707
1966.	303.8750	102.1309	12.4285	64.7852	124.5264
1967.	313.7266	105.4424	12.8313	66.8848	128.5625
1968.	328.7930	110.5059	13.4475	70.0977	134.7383
1969.	349.0313	117.3076	14.2754	74.4121	143.0313
1970.	363.9375	122.3184	14.8850	77.5898	149.1406

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	38.8936	0.4862	1.3224	6.6732	28.4114
1951.	39.8921	0.4986	1.3563	6.8459	29.1406
1952.	41.5635	0.5195	1.4131	9.2686	30.3618
1953.	43.1875	0.5398	1.4684	9.6307	31.5461
1954.	44.7642	0.5595	1.5220	9.9823	32.6997
1955.	46.9741	0.5872	1.5971	10.4751	34.3145
1956.	49.1211	0.6140	1.6701	10.9540	35.8823
1957.	50.5400	0.6317	1.7184	11.2704	36.9189
1958.	50.5972	0.6325	1.7203	11.2830	36.9609
1959.	52.5859	0.6573	1.7879	11.7266	38.4136
1960.	55.7949	0.6974	1.8970	12.4421	40.7578
1961.	58.2749	0.7284	1.9813	12.9952	42.5698
1962.	60.0508	0.7506	2.0417	13.3912	43.8667
1963.	61.7637	0.7720	2.0999	13.7732	45.1192
1964.	64.6328	0.8079	2.1975	14.4130	47.2139
1965.	66.8057	0.8351	2.2714	14.8976	48.8008
1966.	68.3057	0.8538	2.3223	15.2321	49.8965
1967.	69.7422	0.8718	2.3712	15.5522	50.9468
1968.	72.2715	0.9034	2.4572	16.1165	52.7939
1969.	75.8467	0.9481	2.5787	16.9136	55.4053
1970.	78.1719	0.9771	2.6578	17.4321	57.1040

F-D MATRIX FOR WESTERN EUROPE

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	38.2949	0.0536	0.0306	36.5791	1.6313
1951.	40.7227	0.0570	0.0326	38.8979	1.7348
1952.	43.9673	0.0616	0.0352	41.9976	1.8730
1953.	47.3198	0.0662	0.0379	45.1997	2.0158
1954.	50.7808	0.0711	0.0406	48.5054	2.1632
1955.	55.1494	0.0772	0.0441	52.6782	2.3493
1956.	59.6616	0.0835	0.0477	56.9888	2.5416
1957.	63.4829	0.0889	0.0508	60.6387	2.7043
1958.	65.7061	0.0920	0.0526	62.7617	2.7990
1959.	70.5791	0.0988	0.0565	67.4150	3.0066
1960.	77.3740	0.1083	0.0619	73.9072	3.2961
1961.	83.4785	0.1169	0.0668	79.7383	3.5562
1962.	88.8379	0.1244	0.0711	84.8574	3.7849
1963.	94.3418	0.1321	0.0755	90.1143	4.0189
1964.	101.9121	0.1427	0.0815	97.3457	4.3414
1965.	108.7197	0.1522	0.0870	103.8477	4.6314
1966.	114.7090	0.1606	0.0918	109.5693	4.8865
1967.	120.8438	0.1692	0.0967	115.4297	5.1479
1968.	129.1895	0.1809	0.1033	123.4004	5.5034
1969.	139.8535	0.1958	0.1119	133.5859	5.9577
1970.	148.6680	0.2081	0.1189	142.0059	6.3332

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	28.9009	11.2220	5.5662	10.4794	1.6329
1951.	31.4277	12.2034	6.0529	11.3956	1.7757
1952.	34.4460	13.4529	6.6727	12.5625	1.9579
1953.	38.0200	14.7631	7.3226	13.7859	2.1484
1954.	41.5503	16.1338	8.0024	15.0659	2.3476
1955.	45.9019	17.8235	8.8406	16.6438	2.5934
1956.	50.4619	19.5942	9.7185	18.2974	2.8511
1957.	54.5122	21.1667	10.4989	19.7659	3.0799
1958.	57.2319	22.2229	11.0227	20.7522	3.2336
1959.	62.3120	24.1956	12.0012	22.5940	3.5208
1960.	69.1904	26.8660	13.3259	25.0879	3.9092
1961.	75.5596	29.3396	14.5525	27.3975	4.2699
1962.	81.3418	31.5847	15.6661	29.4941	4.5969
1963.	87.3320	33.9106	16.8198	31.6664	4.9341
1964.	95.8221	37.2156	18.4661	34.7	5.3
1965.	103.7129	40.2	19.9	37.7	5.7
1966.	109.4053	42.4	21.0	39.8	6.1
1967.	116.3057	45.1611	22.4041	42.3	6.5
1968.	125.4209	48.7082	24.1668	45.4721	7.0862
1969.	136.9063	53.1597	26.3674	49.6416	7.7352
1970.	146.6992	56.9629	28.2542	53.1924	8.2895

F-D MATRIX FOR WESTERN EUROPE

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	31.3635	2.2142	1.3549	20.5178	7.2762
1951.	35.0103	2.4717	1.5124	22.9033	8.1223
1952.	38.0303	2.6849	1.6429	24.8789	8.8229
1953.	41.2271	2.9106	1.7810	26.9702	9.5646
1954.	43.9238	3.1010	1.8975	28.7346	10.1907
1955.	48.7441	3.4414	2.1058	31.8894	11.3075
1956.	52.4326	3.7017	2.2651	34.3008	12.1649
1957.	56.2876	3.9739	2.4316	36.8228	13.0586
1958.	59.4790	4.1992	2.5695	38.9111	13.7990
1959.	64.7256	4.5695	2.7961	42.3423	15.0181
1960.	69.8740	4.9330	3.0185	45.7104	16.2104
1961.	74.6377	5.2693	3.2243	48.8271	17.3157
1962.	80.5508	5.6868	3.4798	52.6963	18.6875
1963.	86.4922	6.1063	3.7365	56.5830	20.0659
1964.	94.6426	6.6817	4.0886	61.9146	21.9565
1965.	102.4775	7.2349	4.4270	67.0480	23.7744
1966.	111.4941	7.8715	4.8165	72.9395	25.8665
1967.	119.0195	8.4027	5.1417	77.8613	27.6121
1968.	128.6680	9.0837	5.5584	84.1738	29.8506
1969.	138.5391	9.7806	5.9848	90.6309	32.1406
1970.	147.2266	10.3940	6.3601	96.3135	34.1558

F-D MATRIX FOR WESTERN EUROPE

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	147.9043	49.7095	98.1924
1951.	153.0449	51.4375	101.6045
1952.	160.8867	54.0732	106.8115
1953.	168.6934	56.6968	111.9941
1954.	176.4648	59.3091	117.1533
1955.	186.9082	62.8188	124.0869
1956.	197.3027	66.3125	130.9863
1957.	204.9512	68.8838	136.0645
1958.	207.1836	69.6338	137.5469
1959.	217.4570	73.0869	144.3672
1960.	233.0410	78.3242	154.7129
1961.	245.8789	82.6396	163.2363
1962.	255.9883	86.0361	169.9473
1963.	266.0508	89.4180	176.6289
1964.	281.3750	94.5684	186.8027
1965.	293.9766	98.8047	195.1680
1966.	303.8750	102.1309	201.7383
1967.	313.7266	105.4424	208.2773
1968.	328.7930	110.5059	218.2832
1969.	349.0313	117.3076	231.7188
1970.	363.9375	122.3184	241.6152

GOVERNMENT

YEAR	CALC	I	II
1950.	38.8936	0.4862	38.4067
1951.	39.8921	0.4986	39.3926
1952.	41.5635	0.5195	41.0435
1953.	43.1875	0.5398	42.6470
1954.	44.7642	0.5595	44.2036
1955.	46.9741	0.5872	46.3862
1956.	49.1211	0.6140	48.5063
1957.	50.5400	0.6317	49.9072
1958.	50.5972	0.6325	49.9639
1959.	52.5859	0.6573	51.9277
1960.	55.7949	0.6974	55.0967
1961.	58.2749	0.7284	57.5464
1962.	60.0508	0.7506	59.2993
1963.	61.7637	0.7720	60.9912
1964.	64.6328	0.8079	63.8242
1965.	66.8057	0.8351	65.9697
1966.	68.3057	0.8538	67.4502
1967.	69.7422	0.8718	68.8701
1968.	72.2715	0.9034	71.3672
1969.	75.8467	0.9481	74.8975
1970.	78.1719	0.9771	77.1934

F-D MATRIX FOR WESTERN EUROPE

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	38.2949	0.0536	38.2402
1951.	40.7227	0.0570	40.6646
1952.	43.9673	0.0616	43.9053
1953.	47.3198	0.0662	47.2529
1954.	50.7808	0.0711	50.7090
1955.	55.1494	0.0772	55.0713
1956.	59.6616	0.0835	59.5776
1957.	63.4829	0.0889	63.3936
1958.	65.7061	0.0920	65.6123
1959.	70.5781	0.0988	70.4786
1960.	77.3740	0.1083	77.2646
1961.	83.4785	0.1169	83.3604
1962.	88.8379	0.1244	88.7119
1963.	94.3418	0.1321	94.2080
1964.	101.9121	0.1427	101.7676
1965.	108.7197	0.1522	108.5654
1966.	114.7090	0.1606	114.5459
1967.	120.8438	0.1692	120.6729
1968.	129.1695	0.1809	129.0059
1969.	139.8535	0.1958	139.6543
1970.	148.6680	0.2081	148.4551

IMPORTS

YEAR	CALC	I	II
1950.	28.9009	11.2220	17.6782
1951.	31.4277	12.2034	19.2241
1952.	34.6460	13.4529	21.1924
1953.	38.0200	14.7631	23.2563
1954.	41.5503	16.1338	25.4158
1955.	45.9019	17.8235	28.0776
1956.	50.4619	19.5942	30.8672
1957.	54.5122	21.1667	33.3442
1958.	57.2319	22.2229	35.0083
1959.	62.3120	24.1956	38.1157
1960.	69.1904	26.8660	42.3228
1961.	75.5596	29.3396	46.2188
1962.	81.3418	31.5847	49.7559
1963.	87.3320	33.9106	53.4199
1964.	95.3291	37.0156	58.3115
1965.	102.7129	39.8828	62.8281
1966.	109.4053	42.4619	66.9219
1967.	116.3057	45.1611	71.1416
1968.	125.4209	48.7002	76.7188
1969.	136.9063	53.1597	83.7432
1970.	146.6992	56.9629	89.7344

F-D MATRIX FOR WESTERN EUROPE

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	31.3635	2.2142	29.1487
1951.	35.0103	2.4717	32.5376
1952.	38.0303	2.6849	35.3442
1953.	41.2271	2.9106	38.3154
1954.	43.9238	3.1010	40.8223
1955.	48.7461	3.4414	45.3037
1956.	52.4326	3.7017	48.7295
1957.	56.2876	3.9739	52.3125
1958.	59.4790	4.1992	55.2793
1959.	64.7256	4.5695	60.1543
1960.	69.8740	4.9330	64.9385
1961.	74.6377	5.2693	69.3662
1962.	80.5508	5.6868	74.8633
1963.	86.4922	6.1063	80.3848
1964.	94.6426	6.6817	87.9590
1965.	102.4775	7.2349	95.2412
1966.	111.4941	7.8715	103.6221
1967.	119.0195	8.4027	110.6143
1968.	128.6680	9.0837	119.5820
1969.	138.5391	9.7806	128.7559
1970.	147.2266	10.3940	136.8281

F-O MATRIX FOR JAPAN

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	16.0764	0.8569	0.0048	0.3665	4.2827	2.2458	0.0096	5.1572	2.2796	0.8729
1951.	16.7383	0.8921	0.0050	0.3816	4.4590	2.3383	0.0100	5.3696	2.3735	0.9089
1952.	17.4255	0.9288	0.0052	0.3973	4.6421	2.4343	0.0105	5.5901	2.4709	0.9462
1953.	18.1389	0.9668	0.0054	0.4136	4.8322	2.5340	0.0109	5.8190	2.5721	0.9849
1954.	19.2742	1.0273	0.0058	0.4394	5.1345	2.6926	0.0116	6.1831	2.7330	1.0466
1955.	20.8157	1.1095	0.0062	0.4746	5.5452	2.9079	0.0125	6.6776	2.9517	1.1303
1956.	22.3228	1.1898	0.0067	0.5090	5.9467	3.1185	0.0134	7.1611	3.1653	1.2121
1957.	23.7942	1.2682	0.0071	0.5425	6.3387	3.3240	0.0143	7.6332	3.3740	1.2920
1958.	24.8113	1.3224	0.0074	0.5657	6.6096	3.4661	0.0149	7.9595	3.5182	1.3472
1959.	26.6335	1.4196	0.0080	0.6072	7.0951	3.7207	0.0160	8.5439	3.7766	1.4462
1960.	30.0586	1.6021	0.0090	0.6853	8.0076	4.1992	0.0180	9.6427	4.2623	1.6322
1961.	34.6279	1.8456	0.0104	0.7895	9.2249	4.8374	0.0208	11.1086	4.9102	1.8803
1962.	36.2705	1.9332	0.0109	0.8270	9.6624	5.0669	0.0218	11.6355	5.1431	1.9695
1963.	39.8628	2.1247	0.0120	0.9089	10.6194	5.5687	0.0239	12.7878	5.6525	2.1645
1964.	44.9443	2.3955	0.0135	1.0247	11.9729	6.2787	0.0270	14.4180	6.3730	2.4405
1965.	46.3945	2.4728	0.0139	1.0578	12.3594	6.4812	0.0278	14.8833	6.5787	2.5192
1966.	50.4985	2.6916	0.0151	1.1514	13.4526	7.0546	0.0303	16.2000	7.1606	2.7420
1967.	56.7852	3.0266	0.0170	1.2947	15.1274	7.9329	0.0341	18.2166	8.0521	3.0834
1968.	64.0439	3.4135	0.0192	1.4602	17.0610	8.9468	0.0384	20.5449	9.0813	3.4775
1969.	71.1182	3.7906	0.0213	1.6215	18.9458	9.9351	0.0427	22.8145	10.0845	3.8617
1970.	77.2734	4.1187	0.0232	1.7618	20.5854	10.7949	0.0464	24.7891	10.9573	4.1959

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.0450	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1951.	4.1263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1952.	4.2052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1953.	4.2813	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1954.	4.4451	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1955.	4.6859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1956.	4.8996	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1957.	5.0860	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1958.	5.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1959.	5.3775	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1960.	5.8854	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1961.	6.5639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1962.	6.6440	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1963.	7.0422	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1964.	7.6405	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1965.	7.5709	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1966.	7.8889	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1967.	8.4663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1968.	9.0814	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0. 0
1969.	9.5538	0.0000	0.0000	0.0000	0.0000	0.0000	.0000	0.0000	0.0000	0.0000
1970.	9.7900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR JAPAN

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	3.7475	0.0109	0.0000	0.0000	0.0000	1.3468	2.2552	0.0105	0.1240	0.0000
1951.	4.2279	0.0123	0.0000	0.0000	0.0000	1.5195	2.5443	0.0118	0.1399	0.0000
1952.	4.7477	0.0138	0.0000	0.0000	0.0000	1.7063	2.8571	0.0133	0.1571	0.0000
1953.	5.3096	0.0154	0.0000	0.0000	0.0000	1.9083	3.1953	0.0149	0.1757	0.0000
1954.	6.0402	0.0175	0.0000	0.0000	0.0000	2.1708	3.6349	0.0169	0.1999	0.0000
1955.	6.9621	0.0202	0.0000	0.0000	0.0000	2.5027	4.1898	0.0195	0.2304	0.0000
1956.	7.9465	0.0230	0.0000	0.0000	0.0000	2.8560	4.7822	0.0222	0.2630	0.0000
1957.	8.9927	0.0261	0.0000	0.0000	0.0000	3.2319	5.4117	0.0252	0.2977	0.0000
1958.	9.9331	0.0288	0.0000	0.0000	0.0000	3.5699	5.9777	0.0278	0.3288	0.0000
1959.	11.2722	0.0327	0.0000	0.0000	0.0000	4.0512	6.7836	0.0316	0.3731	0.0000
1960.	13.4246	0.0389	0.0000	0.0000	0.0000	4.9248	8.0789	0.0376	0.4444	0.0000
1961.	16.2917	0.0472	0.0000	0.0000	0.0000	5.8552	9.8042	0.0456	0.5392	0.0000
1962.	17.9495	0.0521	0.0000	0.0000	0.0000	6.4510	10.8018	0.0503	0.5941	0.0000
1963.	20.7209	0.0601	0.0000	0.0000	0.0000	7.4471	12.4697	0.0580	0.6859	0.0000
1964.	24.5078	0.0711	0.0000	0.0000	0.0000	8.8081	14.7485	0.0686	0.8112	0.0000
1965.	26.5073	0.0769	0.0000	0.0000	0.0000	9.5267	15.9519	0.0742	0.8774	0.0000
1966.	30.1980	0.0876	0.0000	0.0000	0.0000	10.8531	18.1731	0.0846	0.9996	0.0000
1967.	35.5054	0.1030	0.0000	0.0000	0.0000	12.7605	21.3667	0.0994	1.1752	0.0000
1968.	41.8306	0.1213	0.0000	0.0000	0.0000	15.0339	25.1733	0.1171	1.3846	0.0000
1969.	48.4819	0.1406	0.0000	0.0000	0.0000	17.4243	29.1763	0.1357	1.6047	0.0000
1970.	54.9365	0.1593	0.0000	0.0000	0.0000	19.7441	33.0605	0.1538	1.8184	0.0000

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	1.3576	0.4329	0.1282	0.2316	0.1295	0.4261	0.0001	0.0000	0.0091	0.0000
1951.	1.5071	0.4806	0.1423	0.2571	0.1438	0.4731	0.0002	0.0000	0.0101	0.0000
1952.	1.6684	0.5321	0.1575	0.2846	0.1592	0.5237	0.0002	0.0000	0.0112	0.0000
1953.	1.8423	0.5875	0.1739	0.3143	0.1758	0.5783	0.0002	0.0000	0.0123	0.0000
1954.	2.0719	0.6607	0.1956	0.3535	0.1977	0.6504	0.0002	0.0000	0.0139	0.0000
1955.	2.3637	0.7538	0.2231	0.4032	0.2255	0.7420	0.0002	0.0000	0.0158	0.0000
1956.	2.6728	0.8523	0.2523	0.4560	0.2550	0.8390	0.0003	0.0000	0.0179	0.0000
1957.	2.9990	0.9564	0.2831	0.5116	0.2861	0.9414	0.0003	0.0000	0.0201	0.0000
1958.	3.2868	1.0482	0.3103	0.5607	0.3136	1.0317	0.0003	0.0000	0.0220	0.0000
1959.	3.7033	1.1810	0.3496	0.6318	0.3533	1.1625	0.0004	0.0000	0.0248	0.0000
1960.	4.3813	1.3972	0.4136	0.7474	0.4180	1.3753	0.0004	0.0000	0.0294	0.0000
1961.	5.2647	1.6853	0.4989	0.9016	0.5042	1.6589	0.0005	0.0000	0.0354	0.0000
1962.	5.7895	1.8463	0.5465	0.9877	0.5523	1.8173	0.0006	0.0000	0.0388	0.0000
1963.	6.6483	2.1201	0.6276	1.1342	0.6342	2.0869	0.0007	0.0000	0.0445	0.0000
1964.	7.8247	2.4953	0.7387	1.3349	0.7465	2.4561	0.0008	0.0000	0.0524	0.0000
1965.	8.4243	2.6865	0.7953	1.4372	0.8037	2.6443	0.0008	0.0000	0.0564	0.0000
1966.	9.5560	3.0474	0.9021	1.6302	0.9116	2.9996	0.0010	0.0000	0.0640	0.0000
1967.	11.1902	3.5685	1.0564	1.9090	1.0675	3.5126	0.0011	0.0000	0.0750	0.0000
1968.	13.1337	4.1883	2398	2.2406	1.2529	4.1226	0.0013	0.0000	0.0880	0.0000
1969.	15.1676	4.8369	1.4318	2.5876	1.4470	4.7611	0.0015	0.0000	0.1016	0.0000
1970.	17.1289	5.4624	1.6170	2.9222	1.6341	5.3767	0.0017	0.0000	0.1148	0.0000

F-D MATRIX FOR JAPAN

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	0.7860	0.0288	0.0003	0.0083	0.0288	0.5820	0.0028	0.0704	0.0646	0.0000
1951.	1.1246	0.0412	0.0004	0.0119	0.0412	0.8328	0.0039	0.1008	0.0924	0.0000
1952.	1.4714	0.0539	0.0006	0.0156	0.0539	1.0896	0.0051	0.1318	0.1209	0.0000
1953.	1.8476	0.0676	0.0007	0.0196	0.0676	1.3681	0.0065	0.1655	0.1519	0.0000
1954.	2.2200	0.0813	0.0009	0.0235	0.0813	1.6439	0.0078	0.1989	0.1825	0.0000
1955.	2.7251	0.0997	0.0011	0.0289	0.0997	2.0179	0.0095	0.2442	0.2240	0.0000
1956.	3.1952	0.1169	0.0013	0.0339	0.1169	2.3660	0.0112	0.2863	0.2626	0.0000
1957.	3.6967	0.1353	0.0015	0.0392	0.1353	2.7374	0.0129	0.3312	0.3039	0.0000
1958.	4.1717	0.1527	0.0017	0.0442	0.1527	3.0891	0.0146	0.3738	0.3429	0.0000
1959.	4.8123	0.1761	0.0019	0.0510	0.1761	3.5635	0.0168	0.4312	0.3956	0.0000
1960.	5.4732	0.2003	0.0022	0.0580	0.2003	4.0529	0.0192	0.4904	0.4499	0.0000
1961.	6.1278	0.2243	0.0025	0.0650	0.2243	4.5376	0.0214	0.5490	0.5037	0.0000
1962.	6.9013	0.2526	0.0028	0.0732	0.2526	5.1104	0.0242	0.6183	0.5673	0.0000
1963.	7.7039	0.2820	0.0031	0.0817	0.2820	5.7047	0.0270	0.6903	0.6333	0.0000
1964.	8.7354	0.3197	0.0035	0.0926	0.3197	6.4685	0.0306	0.7827	0.7180	0.0000
1965.	9.7736	0.3577	0.0039	0.1036	0.3577	7.2373	0.0342	0.8757	0.8034	0.0000
1966.	10.9600	0.4011	0.0044	0.1162	0.4011	8.1158	0.0384	0.9820	0.9009	0.0000
1967.	12.0322	0.4404	0.0048	0.1275	0.4404	8.9098	0.0421	1.0781	0.9890	0.0000
1968.	13.3510	0.4886	0.0053	0.1415	0.4886	9.8864	0.0467	1.1962	1.0974	0.0000
1969.	14.7289	0.5391	0.0059	0.1561	0.5391	10.9067	0.0516	1.3197	1.2107	0.0000
1970.	16.0122	0.5860	0.0064	0.1697	0.5860	11.8569	0.0560	1.4347	1.3162	0.0000

F-D MATRIX FOR JAPAN

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	16.0764	5.1395	0.3714	2.2555	8.3097
1951.	16.7383	5.3511	0.3867	2.3484	8.6520
1952.	17.4255	5.5709	0.4025	2.4448	9.0071
1953.	18.1389	5.7990	0.4190	2.5449	9.3759
1954.	19.2742	6.1618	0.4452	2.7041	9.9626
1955.	20.8157	6.6546	0.4808	2.9204	10.7595
1956.	22.3228	7.1364	0.5156	3.1318	11.5385
1957.	23.7942	7.6069	0.5496	3.3383	12.2991
1958.	24.8113	7.9320	0.5731	3.4810	12.8248
1959.	26.6335	8.5146	0.6152	3.7367	13.7667
1960.	30.0596	9.6096	0.6943	4.2172	15.5370
1961.	34.6279	11.0704	0.7999	4.8582	17.8989
1962.	36.2705	11.5955	0.8378	5.0886	18.7480
1963.	39.8628	12.7440	0.9208	5.5926	20.6045
1964.	44.9443	14.3684	1.0382	6.3056	23.2314
1965.	46.3945	14.8322	1.0717	6.5090	23.9810
1966.	50.4985	16.1440	1.1665	7.0848	26.1025
1967.	56.7852	18.1541	1.3117	7.9669	29.3518
1968.	64.0439	20.4744	1.4794	8.9851	33.1035
1969.	71.1182	22.7363	1.6428	9.9777	36.7603
1970.	77.2734	24.7041	1.7850	10.8412	39.9419

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	4.0450	0.0000	0.0000	0.0000	0.0000
1951.	4.1263	0.0000	0.0000	0.0000	0.0000
1952.	4.2052	0.0000	0.0000	0.0000	0.0000
1953.	4.2813	0.0000	0.0000	0.0000	0.0000
1954.	4.4451	0.0000	0.0000	0.0000	0.0000
1955.	4.6859	0.0000	0.0000	0.0000	0.0000
1956.	4.8996	0.0000	0.0000	0.0000	0.0000
1957.	5.0860	0.0000	0.0000	0.0000	0.0000
1958.	5.1580	0.0000	0.0000	0.0000	0.0000
1959.	5.3775	0.0000	0.0000	0.0000	0.0000
1960.	5.8854	0.0000	0.0000	0.0000	0.0000
1961.	6.5639	0.0000	0.0000	0.0000	0.0000
1962.	6.6440	0.0000	0.0000	0.0000	[illegible]
1963.	7.0432	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]				
[illegible]	[illegible]				
1967.	[illegible]				
1968.	[illegible]		[illegible]	[illegible]	[illegible]
1969.	9.5538	0.0000	0.0000	0.0000	[illegible]
1970.	9.7900	0.0000	0.0000	0.0000	[illegible]

F-D MATRIX FOR JAPAN

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	3.7475	0.0109	0.0000	3.6021	0.1345
1951.	4.2279	0.0123	0.0000	4.0638	0.1518
1952.	4.7477	0.0138	0.0000	4.5634	0.1704
1953.	5.3096	0.0154	0.0000	5.1035	0.1906
1954.	6.0402	0.0175	0.0000	5.8058	0.2168
1955.	6.9621	0.0202	0.0000	6.6919	0.2499
1956.	7.9465	0.0230	0.0000	7.6381	0.2853
1957.	8.9927	0.0261	0.0000	8.6437	0.3228
1958.	9.9331	0.0288	0.0000	9.5476	0.3566
1959.	11.2722	0.0327	0.0000	10.8347	0.4047
1960.	13.4246	0.0389	0.0000	12.9036	0.4819
1961.	16.2917	0.0472	0.0000	15.6594	0.5849
1962.	17.9495	0.0521	0.0000	17.2527	0.6444
1963.	20.7209	0.0601	0.0000	19.9167	0.7439
1964.	24.5078	0.0711	0.0000	23.5566	0.8798
1965.	26.5073	0.0769	0.0000	25.4785	0.9516
1966.	30.1980	0.0876	0.0000	29.0261	1.0841
1967.	35.5054	0.1030	0.0000	34.1270	1.2746
1968.	41.8306	0.1213	0.0000	40.2070	1.5017
1969.	48.4819	0.1406	0.0000	46.6006	1.7405
1970.	54.9365	0.1593	0.0000	52.8047	1.9722

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	1.3576	0.5624	0.3598	0.4263	0.0091
1951.	1.5071	0.6244	0.3994	0.4732	0.0101
1952.	1.6684	0.6912	0.4421	0.5239	0.0112
1953.	1.8423	0.7633	0.4882	0.5785	0.0123
1954.	2.0719	0.8584	0.5490	0.6506	0.0139
1955.	2.3637	0.9793	0.6264	0.7422	0.0158
1956.	2.6728	1.1073	0.7083	0.8392	0.0179
1957.	2.9990	1.2425	0.7947	0.9417	0.0201
1958.	3.2868	1.3617	0.8710	1.0320	0.0220
1959.	3.7033	1.5343	0.9814	1.1628	0.0248
1960.	4.3813	1.8152	1.1610	1.3757	0.0294
1961.	5.2847	2.1895	1.4004	1.6594	0.0354
1962.	5.7895	2.3986	1.5342	1.8179	0.0388
1963.	6.6483	2.7544	1.7618	2.0875	0.0445
1964.	7.8247	3.2418	2.0735	2.4569	0.0524
1965.	8.4243	3.4902	2.2325	2.6452	0.0564
1966.	9.5560	3.9590	2.5323	3.0006	0.0640
1967.	11.1902	4.6360	2.9654	3.5137	0.0750
1968.	13.1337	5.4412	3.4804	4.1239	0.0880
1969.	15.1676	6.2839	4.0194	4.7626	0.1016
1970.	17.1289	7.0965	4.5391	5.3784	0.1148

F-D MATRIX FOR JAPAN

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	0.7860	0.0575	0.0086	0.5848	0.1350
1951.	1.1246	0.0823	0.0124	0.8367	0.1932
1952.	1.4714	0.1077	0.0162	1.0947	0.2528
1953.	1.8476	0.1352	0.0203	1.3746	0.3174
1954.	2.2200	0.1625	0.0244	1.6517	0.3814
1955.	2.7251	0.1995	0.0300	2.0274	0.4682
1956.	3.1952	0.2339	0.0351	2.3772	0.5489
1957.	3.6967	0.2706	0.0407	2.7503	0.6351
1958.	4.1717	0.3054	0.0459	3.1037	0.7167
1959.	4.8123	0.3523	0.0529	3.5803	0.8267
1960.	5.4732	0.4006	0.0602	4.0720	0.9403
1961.	6.1278	0.4486	0.0674	4.5590	1.0527
1962.	6.9013	0.5052	0.0759	5.1345	1.1856
1963.	7.7039	0.5639	0.0847	5.7316	1.3235
1964.	8.7354	0.6394	0.0961	6.4990	1.5007
1965.	9.7736	0.7154	0.1075	7.2715	1.6791
1966.	10.9600	0.8023	0.1206	8.1542	1.8829
1967.	12.0372	0.8808	0.1324	8.9515	2.0671
1968.	13.3510	0.9773	0.1469	9.9330	2.2937
1969.	14.7289	1.0782	0.1620	10.9583	2.5304
1970.	16.0122	1.1721	0.1761	11.9130	2.7509

F-D MATRIX FOR JAPAN

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	16.0764	5.1395	10.9365
1951.	16.7383	5.3511	11.3870
1952.	17.4255	5.5709	11.8544
1953.	18.1389	5.7990	12.3397
1954.	19.2742	6.1618	13.1119
1955.	20.8157	6.6546	14.1606
1956.	22.3228	7.1364	15.1859
1957.	23.7942	7.6069	16.1868
1958.	24.8113	7.9320	16.8789
1959.	26.6335	9.5146	18.1184
1960.	30.0586	9.6096	20.4485
1961.	34.6279	11.0704	23.5569
1962.	36.2705	11.5955	24.6743
1963.	39.8628	12.7440	27.1177
1964.	44.9443	14.3684	30.5752
1965.	46.3945	14.8322	31.5615
1966.	50.4985	16.1440	34.3535
1967.	56.7852	18.1541	38.6304
1968.	64.0439	20.4744	43.5679
1969.	71.1182	22.7363	48.3804
1970.	77.2734	24.7041	52.5679

GOVERNMENT

YEAR	CALC	I	II
1950.	4.0450	0.0000	0.0000
1951.	4.1263	0.0000	0.0000
1952.	4.2052	0.0000	0.0000
1953.	4.2813	0.0000	0.0000
1954.	4.4451	0.0000	0.0000
1955.	4.6859	0.0000	0.0000
1956.	4.8996	0.0000	0.0000
1957.	5.0060	0.0000	0.0000
1958.	5.1580	0.0000	0.0000
1959.	5.3775	0.0000	0.0000
1960.	5.8854	0.0000	0.0000
1961.	6.3639	0.0000	0.0000
1962.	6.6440	0.0000	0.0000
1963.	7.0422	0.0000	0.0000
1964.	7.6405	0.0000	0.0000
1965.	7.5709	0.0000	0.0000
1966.	7.8889	0.0000	0.0000
1967.	8.4663	0.0000	0.0000
1968.	9.0814	0.0000	0.0000
1969.	9.5538	0.0000	0.0000
1970.	9.7900	0.0000	0.0000

F-D MATRIX FOR JAPAN

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	3.7475	0.0109	3.7366
1951.	4.2279	0.0123	4.2155
1952.	4.7477	0.0138	4.7338
1953.	5.3096	0.0154	5.2941
1954.	6.0402	0.0175	6.0226
1955.	6.9621	0.0202	6.9418
1956.	7.9445	0.0230	7.9215
1957.	8.9927	0.0261	8.9664
1958.	10.0331	0.0288	10.0042
1959.	11.2722	0.0327	11.2394
1960.	13.4246	0.0389	13.3855
1961.	16.2917	0.0472	16.2441
1962.	17.9405	0.0521	17.8884
1963.	20.7209	0.0601	20.6604
1964.	24.5078	0.0711	24.4363
1965.	26.5073	0.0769	26.4299
1966.	30.1980	0.0876	30.1101
1967.	35.5054	0.1030	35.4014
1968.	41.8306	0.1213	41.7085
1969.	48.4819	0.1406	48.3408
1970.	54.9365	0.1593	54.7769

IMPORTS

YEAR	CALC	I	II
1950.	1.3576	0.5624	0.7951
1951.	1.5071	0.6244	0.8827
1952.	1.6684	0.6912	0.9772
1953.	1.8423	0.7633	1.0790
1954.	2.0719	0.8584	1.2135
1955.	2.3437	0.9713	1.3724
1956.	2.6528	1.1073	1.5454
1957.	2.9990	1.2425	1.7565
1958.	3.2868	1.3617	1.9251
1959.	3.7033	1.5343	2.1690
1960.	4.4813	1.8152	2.5660
1961.	5.2847	2.1895	3.0952
1962.	5.7895	2.3986	3.3908
1963.	6.6483	2.7544	3.8938
1964.	7.8247	3.2418	4.5828
1965.	8.4243	3.4902	4.9340
1966.	9.6560	3.9590	5.5969
1967.	11.1902	4.6360	6.5540
1968.	13.1337	5.4412	7.6923
1969.	15.1676	6.2839	8.8836
1970.	17.1289	7.0965	10.0322

F-D MATRIX FOR JAPAN

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	0.7860	0.0575	0.7285
1951.	1.1246	0.0823	1.0423
1952.	1.4714	0.1077	1.3637
1953.	1.8476	0.1352	1.7123
1954.	2.2200	0.1625	2.0575
1955.	2.7251	0.1995	2.5256
1956.	3.1952	0.2339	2.9612
1957.	3.6967	0.2706	3.4260
1958.	4.1717	0.3054	3.8662
1959.	4.8123	0.3523	4.4599
1960.	5.4732	0.4006	5.0724
1961.	6.1278	0.4486	5.6791
1962.	6.9013	0.5052	6.3960
1963.	7.7039	0.5639	7.1398
1964.	8.7354	0.6394	8.0957
1965.	9.7736	0.7154	9.0580
1966.	10.9600	0.8023	10.1575
1967.	12.0322	0.8808	11.1511
1968.	13.3510	0.9773	12.3734
1969.	14.7289	1.0782	13.6506
1970.	16.0122	1.1721	14.8398

F-D MATRIX FOR JAPAN

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	0.7860	0.0575	0.7285
1951.	1.1246	0.0823	1.0423
1952.	1.4714	0.1077	1.3637
1953.	1.8476	0.1352	1.7123
1954.	2.2200	0.1625	2.0575
1955.	2.7251	0.1995	2.5256
1956.	3.1952	0.2339	2.9612
1957.	3.6967	0.2706	3.4260
1958.	4.1717	0.3054	3.8662
1959.	4.8123	0.3523	4.4599
1960.	5.4732	0.4006	5.0724
1961.	6.1278	0.4486	5.6791
1962.	6.9013	0.5052	6.3960
1963.	7.7039	0.5639	7.1398
1964.	8.7354	0.6394	8.0957
1965.	9.7736	0.7154	9.0580
1966.	10.9600	0.8023	10.1575
1967.	12.0322	0.8808	11.1511
1968.	13.3510	0.9773	12.3734
1969.	14.7289	1.0782	13.6506
1970.	16.0122	1.1721	14.8398

F-D MATRIX FOR CENTRAL PLANNED

1-AGRICULTURE
2-MINING
3-ENERGY
4-FOOD
5-MANUFACTURING
6-CONSTRUCTION
7-SERVICES I
8-SERVICES II
9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	78.9893	15.8530	0.0000	0.8689	32.9937	29.2734	0.0000	0.0000	0.0000	0.0000
1951.	87.4404	17.5493	0.0000	0.9618	36.5239	32.4053	0.0000	0.0000	0.0000	0.0000
1952.	93.6494	18.7954	0.0000	1.0301	39.1172	34.7065	0.0000	0.0000	0.0000	0.0000
1953.	99.8105	20.0320	0.0000	1.0979	41.6909	36.9897	0.0000	0.0000	0.0000	0.0000
1954.	110.2441	22.1260	0.0000	1.2127	46.0488	40.8564	0.0000	0.0000	0.0000	0.0000
1955.	122.7510	24.6360	0.0000	1.3503	51.2729	45.4917	0.0000	0.0000	0.0000	0.0000
1956.	130.8691	26.2651	0.0000	1.4395	54.6641	48.5000	0.0000	0.0000	0.0000	0.0000
1957.	143.1973	28.7397	0.0000	1.5752	59.8135	53.0684	0.0000	0.0000	0.0000	0.0000
1958.	155.4277	31.1943	0.0000	1.7097	64.9219	57.6016	0.0000	0.0000	0.0000	0.0000
1959.	169.6836	34.0552	0.0000	1.8665	70.8770	62.8848	0.0000	0.0000	0.0000	0.0000
1960.	181.7090	36.4688	0.0000	1.9988	75.8994	67.3408	0.0000	0.0000	0.0000	0.0000
1961.	193.6426	38.8638	0.0000	2.1301	80.8843	71.7637	0.0000	0.0000	0.0000	0.0000
1962.	201.2813	40.3970	0.0000	2.2141	84.0752	74.5947	0.0000	0.0000	0.0000	0.0000
1963.	208.8535	41.9170	0.0000	2.2974	87.2385	77.4014	0.0000	0.0000	0.0000	0.0000
1964.	226.7656	45.5117	0.0000	2.4944	94.7197	84.0391	0.0000	0.0000	0.0000	0.0000
1965.	238.3125	47.8291	0.0000	2.6214	99.5430	88.3184	0.0000	0.0000	0.0000	0.0000
1966.	258.0234	51.7852	0.0000	2.8383	107.7754	95.6230	0.0000	0.0000	0.0000	0.0000
1967.	277.5664	55.7070	0.0000	3.0532	115.9395	102.8652	0.0000	0.0000	0.0000	0.0000
1968.	294.9023	59.1865	0.0000	3.2439	123.1797	109.2910	0.0000	0.0000	0.0000	0.0000
1969.	308.0117	61.8174	0.0000	3.3881	128.6563	114.1484	0.0000	0.0000	0.0000	0.0000
1970.	333.1953	66.8721	0.0000	3.6651	139.1758	123.4824	0.0000	0.0000	0.0000	0.0000

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	8.3807	0.6705	0.0000	1.7599	1.5923	4.3579	0.0000	0.0000	0.0000	0.0000
1951.	9.4039	0.7523	0.0000	1.9748	1.7867	4.8899	0.0000	0.0000	0.0000	0.0000
1952.	10.2083	0.8167	0.0000	2.1437	1.9395	5.3082	0.0000	0.0000	0.0000	0.0000
1953.	11.0262	0.8821	0.0000	2.3155	2.0950	5.7335	0.0000	0.0000	0.0000	0.0000
1954.	12.3420	0.9874	0.0000	2.5918	2.3459	6.4177	0.0000	0.0000	0.0000	0.0000
1955.	13.9250	1.1140	0.0000	2.9242	2.6458	7.2410	0.0000	0.0000	0.0000	0.0000
1956.	15.0426	1.2034	0.0000	3.1589	2.8581	7.8220	0.0000	0.0000	0.0000	0.0000
1957.	16.6765	1.3341	0.0000	3.5020	3.1685	8.6716	0.0000	0.0000	0.0000	0.0000
1958.	18.3379	1.4670	0.0000	3.8509	3.4842	9.5354	0.0000	0.0000	0.0000	0.0000
1959.	20.2803	1.6224	0.0000	4.2588	3.8532	10.5457	0.0000	0.0000	0.0000	0.0000
1960.	21.9990	1.7599	0.0000	4.6198	4.1798	11.4392	0.0000	0.0000	0.0000	0.0000
1961.	23.7458	1.8997	0.0000	4.9866	4.5117	12.3477	0.0000	0.0000	0.0000	0.0000
1962.	24.9990	1.9999	0.0000	5.2498	4.7498	12.9993	0.0000	0.0000	0.0000	0.0000
1963.	26.2705	2.1016	0.0000	5.5167	4.9914	13.6604	0.0000	0.0000	0.0000	0.0000
1964.	28.8857	2.3109	0.0000	6.0660	5.4883	15.0203	0.0000	0.0000	0.0000	0.0000
1965.	30.7400	2.4592	0.0000	6.4553	5.8406	15.9846	0.0000	0.0000	0.0000	0.0000
1966.	33.7007	2.6960	0.0000	7.0770	6.4031	17.5239	0.0000	0.0000	0.0000	0.0000
1967.	36.7075	2.9366	0.0000	7.7085	6.9744	19.0874	0.0000	0.0000	0.0000	0.0000
1968.	39.4863	3.1589	0.0000	8.2920	7.5023	20.5327	0.0000	0.0000	0.0000	0.0000
1969.	41.7529	3.3402	0.0000	8.7681	7.9330	21.7109	0.0000	0.0000	0.0000	0.0
1970.	45.7246	3.6580	0.0000	9.6021	8.6876	23.7764	0.0000	0.0000	0.0000	0.0000

F-O MATRIX FOR CENTRAL PLANNED

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	15.8599	0.4758	0.0000	0.3806	0.9199	5.5256	8.5579	0.0000	0.0000	0.0000
1951.	17.7815	0.5334	0.0000	0.4268	1.0313	6.1951	9.5947	0.0000	0.0000	0.0000
1952.	19.2866	0.5786	0.0000	0.4629	1.1186	6.7194	10.4070	0.0000	0.0000	0.0000
1953.	20.8157	0.6245	0.0000	0.4996	1.2073	7.2521	11.2319	0.0000	0.0000	0.0000
1954.	23.2815	0.6984	0.0000	0.5588	1.3505	8.1112	12.5625	0.0000	0.0000	0.0000
1955.	26.2478	0.7874	0.0000	0.6299	1.5224	9.1447	14.1631	0.0000	0.0000	0.0000
1956.	28.3328	0.8500	0.0000	0.6800	1.6433	9.8711	15.2881	0.0000	0.0000	0.0000
1957.	31.3467	0.9416	0.0000	0.7533	1.8204	10.9351	16.9360	0.0000	0.0000	0.0000
1958.	34.4888	1.0347	0.0000	0.8277	2.0003	12.0159	18.6099	0.0000	0.0000	0.0000
1959.	38.1147	1.1434	0.0000	0.9147	2.2106	13.2791	20.5664	0.0000	0.0000	0.0000
1960.	41.3159	1.2395	0.0000	0.9916	2.3963	14.3943	22.2935	0.0000	0.0000	0.0000
1961.	44.5659	1.3370	0.0000	1.0696	2.5848	15.5266	24.0474	0.0000	0.0000	0.0000
1962.	46.8857	1.4066	0.0000	1.1252	2.7194	16.3350	25.2993	0.0000	0.0000	0.0000
1963.	49.2378	1.4771	0.0000	1.1817	2.8558	17.1543	26.5684	0.0000	0.0000	0.0000
1964.	54.1040	1.6231	0.0000	1.2985	3.1380	18.8496	29.1938	0.0000	0.0000	0.0000
1965.	57.5405	1.7262	0.0000	1.3810	3.3373	20.0471	31.0483	0.0000	0.0000	0.0000
1966.	63.0425	1.8913	0.0000	1.5130	3.6565	21.9639	34.0171	0.0000	0.0000	0.0000
1967.	68.6240	2.0587	0.0000	1.6469	3.9802	23.9082	37.0283	0.0000	0.0000	0.0000
1968.	73.7734	2.2132	0.0000	1.7705	4.2788	25.7026	39.8076	0.0000	0.0000	0.0000
1969.	77.9619	2.3388	0.0000	1.8711	4.5218	27.1616	42.0674	0.0000	0.0000	0.0000
1970.	85.3271	2.5598	0.0000	2.0478	4.9490	29.7275	46.0420	0.0000	0.0000	0.0000

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.0526	0.5791	0.1427	2.6119	0.6192	0.0997	0.0000	0.0000	0.0000	0.0000
1951.	4.5206	0.6460	0.1591	2.9135	0.6908	0.1112	0.0000	0.0000	0.0000	0.0000
1952.	4.8788	0.6972	0.1717	3.1443	0.7455	0.1200	0.0000	0.0000	0.0000	0.0000
1953.	5.2396	0.7487	0.1844	3.3769	0.8006	0.1289	0.0000	0.0000	0.0000	0.0000
1954.	5.8318	0.8334	0.2053	3.7585	0.8911	0.1435	0.0000	0.0000	0.0000	0.0000
1955.	6.5432	0.9350	0.2303	4.2171	0.9998	0.1610	0.0000	0.0000	0.0000	0.0000
1956.	7.0294	1.0045	0.2474	4.5305	1.0741	0.1729	0.0000	0.0000	0.0000	0.0000
1957.	7.7506	1.1076	0.2728	4.9952	1.1843	0.1907	0.0000	0.0000	0.0000	0.0000
1958.	8.4771	1.2114	0.2984	5.4634	1.2953	0.2085	0.0000	0.0000	0.0000	0.0000
1959.	9.3256	1.3326	0.3283	6.0103	1.4249	0.2294	0.0000	0.0000	0.0000	0.0000
1960.	10.0631	1.4380	0.3542	6.4856	1.5376	0.2476	0.0000	0.0000	0.0000	0.0000
1961.	10.8062	1.5442	0.3804	6.9645	1.6512	0.2658	0.0000	0.0000	0.0000	0.0000
1962.	11.3156	1.6174	0.3984	7.2948	1.7293	0.2784	0.0000	0.0000	0.0000	0.0000
1963.	11.8346	1.6912	0.4166	7.6273	1.8083	0.2911	0.0000	0.0000	0.0000	0.0000
1964.	12.9481	1.8503	0.4558	8.3450	1.9785	0.3185	0.0000	0.0000	0.0000	0.0000
1965.	13.7119	1.9594	0.4827	8.8373	2.0952	0.3373	0.0000	0.0000	0.0000	0.0000
1966.	14.9598	2.1378	0.5266	9.6416	2.2854	0.3680	0.0000	0.0000	0.0000	0.0000
1967.	16.2166	2.3173	0.5708	10.4514	2.4778	0.3989	0.0000	0.0000	0.0000	0.0000
1968.	17.3618	2.4810	.6111	11.1897	2.6528	0.4271	0.0000	0.0000	0.0000	0.0000
1969.	18.2727	2.6111	.6432	11.7766	2.7921	0.4495	.0000	0.0000	0.0000	0.0000
1970.	19.9187	2.8464	0.7011	12.8374	3.0435	0.4900	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR CENTRAL PLANNED

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.7530	0.5960	0.1949	0.7472	0.7876	2.4273	0.0000	0.0000	0.0000	0.0000
1951.	5.4329	0.6813	0.2227	0.8540	0.9002	2.7745	0.0000	0.0000	0.0000	0.0000
1952.	6.0302	0.7562	0.2472	0.9479	0.9992	3.0796	0.0000	0.0000	0.0000	0.0000
1953.	6.6671	0.8361	0.2733	1.0481	1.1047	3.4048	0.0000	0.0000	0.0000	0.0000
1954.	7.2327	0.9070	0.2965	1.1370	1.1985	3.6937	0.0000	0.0000	0.0000	0.0000
1955.	8.1613	1.0234	0.3346	1.2829	1.3523	4.1678	0.0000	0.0000	0.0000	0.0000
1956.	8.9144	1.1179	0.3655	1.4013	1.4771	4.5525	0.0000	0.0000	0.0000	0.0000
1957.	9.7070	1.2173	0.3980	1.5259	1.6085	4.9573	0.0000	0.0000	0.0000	0.0000
1958.	10.3940	1.3034	0.4261	1.6339	1.7223	5.3081	0.0000	0.0000	0.0000	0.0000
1959.	11.4512	1.4360	0.4695	1.8001	1.8975	5.8480	0.0000	0.0000	0.0000	0.0000
1960.	12.5052	1.5681	0.5127	1.9658	2.0721	6.3864	0.0000	0.0000	0.0000	0.0000
1961.	13.5026	1.6932	0.5536	2.1226	2.2374	6.8956	0.0000	0.0000	0.0000	0.0000
1962.	14.7207	1.8460	0.6035	2.3141	2.4392	7.5177	0.0000	0.0000	0.0000	0.0000
1963.	15.9576	2.0011	0.6543	2.5085	2.6442	8.1494	0.0000	0.0000	0.0000	0.0000
1964.	17.6197	2.2094	0.7224	2.7696	2.9194	8.9976	0.0000	0.0000	0.0000	0.0000
1965.	19.2395	2.4126	0.7888	3.0244	3.1880	9.8254	0.0000	0.0000	0.0000	0.0000
1966.	21.1001	2.6459	0.8651	3.3169	3.4963	10.7756	0.0000	0.0000	0.0000	0.0000
1967.	22.6956	2.8460	0.9305	3.5677	3.7606	11.5903	0.0000	0.0000	0.0000	0.0000
1968.	24.7122	3.0989	1.0132	3.8847	4.0948	12.6204	0.0000	0.0000	0.0000	0.0000
1969.	26.7900	3.3594	1.0984	4.2114	4.4391	13.6814	0.0000	0.0000	0.0000	0.0000
1970.	28.6555	3.5934	1.1749	4.5046	4.7482	14.6340	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR CENTRAL PLANNED

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	78.9893	48.8467	0.8689	29.2734	0.0000
1951.	87.4404	54.0732	0.9618	32.4053	0.0000
1952.	93.6494	57.9126	1.0301	34.7065	0.0000
1953.	99.8105	61.7227	1.0979	36.9897	0.0000
1954.	110.2441	68.1748	1.2127	40.8564	0.0000
1955.	122.7510	75.9082	1.3503	45.4917	0.0000
1956.	130.8691	80.9287	1.4395	48.5000	0.0000
1957.	143.1973	88.5527	1.5752	53.0684	0.0000
1958.	155.4277	96.1162	1.7097	57.6016	0.0000
1959.	169.6836	104.9316	1.8665	62.8848	0.0000
1960.	181.7090	112.3682	1.9988	67.3408	0.0000
1961.	193.6426	119.7480	2.1301	71.7637	0.0000
1962.	201.2813	124.4717	2.2141	74.5947	0.0000
1963.	208.8535	129.1543	2.2974	77.4014	0.0000
1964.	226.7656	140.2305	2.4944	84.0391	0.0000
1965.	238.3125	147.3711	2.6214	88.3184	0.0000
1966.	258.0234	159.5605	2.8383	95.6230	0.0000
1967.	277.5664	171.6465	3.0532	102.8652	0.0000
1968.	294.9023	182.3652	3.2439	109.2910	0.0000
1969.	308.0117	190.4727	3.3881	114.1484	0.0000
1970.	333.1953	206.0469	3.6651	123.4824	0.0000

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	8.3807	2.2628	1.7599	4.3579	0.0000
1951.	9.4039	2.5390	1.9748	4.8899	0.0000
1952.	10.2083	2.7562	2.1437	5.3082	0.0000
1953.	11.0262	2.9771	2.3155	5.7335	0.0000
1954.	12.3420	3.3323	2.5918	6.4177	0.0000
1955.	13.9250	3.7597	2.9242	7.2410	0.0000
1956.	15.0426	4.0615	3.1589	7.8220	0.0000
1957.	16.6765	4.5026	3.5020	8.6716	0.0000
1958.	18.3379	4.9512	3.8509	9.5354	0.0000
1959.	20.2803	5.4756	4.2588	10.5457	0.0000
1960.	21.9990	5.9397	4.6198	11.4392	0.0000
1961.	23.7458	6.4114	4.9866	12.3477	0.0000
1962.	24.9990	6.7497	5.2498	12.9993	0.0000
1963.	26.2705	7.0930	5.5167	13.6604	0.0000
1964.	28.8857	7.7991	6.0660	15.0203	0.0000
1965.	30.7400	8.2997	6.4553	15.9846	0.0000
1966.	33.7007	9.0991	7.0770	17.5239	0.0000
1967.	36.7075	9.9109	7.7085	19.0874	0.0000
1968.	39.4663	10.6611	8.2920	20.5327	0.0000
1969.	41.7529	11.2732	8.7681	21.7109	0.0000
1970.	45.7246	12.3456	9.6021	23.7764	0.0000

F-O MATRIX FOR CENTRAL PLANNED

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	15.8599	1.3957	0.3806	14.0834	0.0000
1951.	17.7815	1.5648	0.4268	15.7896	0.0000
1952.	19.2866	1.6972	0.4629	17.1262	0.0000
1953.	20.8157	1.8318	0.4996	18.4839	0.0000
1954.	23.2815	2.0488	0.5588	20.6736	0.0000
1955.	26.2478	2.3098	0.6299	23.3076	0.0000
1956.	28.3328	2.4933	0.6800	25.1592	0.0000
1957.	31.3847	2.7620	0.7533	27.8711	0.0000
1958.	34.4884	3.0350	0.8277	30.6257	0.0000
1959.	38.1147	3.3541	0.9147	33.8452	0.0000
1960.	41.3159	3.6358	0.9916	36.6875	0.0000
1961.	44.5659	3.9218	1.0696	39.5737	0.0000
1962.	46.8857	4.1259	1.1252	41.6343	0.0000
1963.	49.2378	4.3329	1.1817	43.7227	0.0000
1964.	54.1040	4.7611	1.2985	48.0435	0.0000
1965.	57.5405	5.0635	1.3810	51.0952	0.0000
1966.	63.0425	5.5477	1.5130	55.9810	0.0000
1967.	68.6240	6.0389	1.6469	60.9365	0.0000
1968.	73.7734	6.4920	1.7705	65.5098	0.0000
1969.	77.9619	6.8606	1.8711	69.2285	0.0000
1970.	85.3271	7.5087	2.0478	75.7695	0.0000

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.0526	1.1983	2.7545	0.0997	0.0000
1951.	4.5206	1.3367	3.0726	0.1112	0.0000
1952.	4.8788	1.4426	3.3161	0.1200	0.0000
1953.	5.2396	1.5493	3.5613	0.1289	0.0000
1954.	5.8318	1.7244	3.9638	0.1435	0.0000
1955.	6.5432	1.9348	4.4474	0.1610	0.0000
1956.	7.0294	2.0786	4.7778	0.1729	0.0000
1957.	7.7506	2.2918	5.2680	0.1907	0.0000
1958.	8.4771	2.5067	5.7617	0.2085	0.0000
1959.	9.3256	2.7575	6.3395	0.2294	0.0000
1960.	10.0631	2.9756	6.8398	0.2476	0.0000
1961.	10.8062	3.1953	7.3448	0.2658	0.0000
1962.	11.3186	3.3469	7.6932	0.2784	0.0000
1963.	11.8346	3.4995	8.0438	0.2911	0.0000
1964.	12.9481	3.8287	8.8007	0.3185	0.0000
1965.	13.7119	4.0546	9.3198	0.3373	0.0000
1966.	14.9508	4.4236	10.1681	0.3689	0.0000
1967.	16.2166	4.7952	11.0222	0.3992	0.0000
1968.	17.3618	5.1338	11.8008	0.4271	0.0000
1969.	18.2727	5.4032	12.4198	0.4495	0.0000
1970.	19.9187	5.8899	13.5385	0.4900	0.0000

F-D MATRIX FOR CENTRAL PLANNED

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.7530	1.3836	0.9420	2.4273	0.0000
1951.	5.4329	1.5815	1.0768	2.7745	0.0000
1952.	6.0302	1.7554	1.1952	3.0796	0.0000
1953.	6.6671	1.9408	1.3214	3.4048	0.0000
1954.	7.2327	2.1054	1.4335	3.6937	0.0000
1955.	8.1613	2.3757	1.6175	4.1678	0.0000
1956.	8.9144	2.5950	1.7666	4.5525	0.0000
1957.	9.7070	2.8257	1.9239	4.9573	0.0000
1958.	10.3940	3.0257	2.0601	5.3081	0.0000
1959.	11.4512	3.3334	2.2696	5.8480	0.0000
1960.	12.5052	3.6403	2.4785	6.3864	0.0000
1961.	13.5026	3.9306	2.6762	6.8956	0.0000
1962.	14.7207	4.2852	2.9176	7.5177	0.0000
1963.	15.9576	4.6453	3.1628	8.1494	0.0000
1964.	17.6197	5.1287	3.4919	8.9976	0.0000
1965.	19.2395	5.6006	3.8132	9.8254	0.0000
1966.	21.1001	6.1422	4.1819	10.7756	0.0000
1967.	22.6956	6.6066	4.4982	11.5903	0.0000
1968.	24.7122	7.1937	4.8979	12.6204	0.0000
1969.	26.7900	7.7985	5.3097	13.6814	0.0000
1970.	28.6555	8.3416	5.6795	14.6344	0.0000

F-D MATRIX FOR CENTRAL PLANNED

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	78.9893	48.8467	30.1421
1951.	87.4404	54.0732	33.3667
1952.	93.6494	57.9126	35.7363
1953.	99.8105	61.7227	38.0874
1954.	110.2441	68.1748	42.0688
1955.	122.7510	75.9082	46.8418
1956.	130.8691	80.9287	49.9395
1957.	143.1973	88.5527	54.6431
1958.	155.4277	96.1162	59.3110
1959.	169.6836	104.9316	64.7510
1960.	181.7090	112.3682	69.3389
1961.	193.6426	119.7480	73.8936
1962.	201.2813	124.4717	76.8086
1963.	208.8535	129.1543	79.6982
1964.	226.7656	140.2305	86.5332
1965.	238.3125	147.3711	90.9395
1966.	258.0234	159.5605	98.4609
1967.	277.5664	171.6465	105.9180
1968.	294.9023	182.3652	112.5342
1969.	308.0117	190.4727	117.5361
1970.	333.1953	206.0469	127.1475

GOVERNMENT

YEAR	CALC	I	II
1950.	8.3807	2.2628	6.1178
1951.	9.4039	2.5390	6.8647
1952.	10.2083	2.7562	7.4519
1953.	11.0262	2.9771	8.0490
1954.	12.3420	3.3323	9.0095
1955.	13.9250	3.7597	10.1652
1956.	15.0426	4.0615	10.9808
1957.	16.6765	4.5026	12.1736
1958.	18.3379	4.9512	13.3862
1959.	20.2803	5.4756	14.8044
1960.	21.9990	5.9397	16.0593
1961.	23.7458	6.4114	17.3342
1962.	24.9990	6.7497	18.2490
1963.	26.2705	7.0930	19.1770
1964.	28.8857	7.7991	21.0862
1965.	30.7400	8.2997	22.4399
1966.	33.7007	9.0991	24.6008
1967.	36.7075	9.9109	26.7959
1968.	39.4863	10.6611	28.8247
1969.	41.7529	11.2732	30.4790
1970.	45.7246	12.3456	33.3784

F-D MATRIX FOR CENTRAL PLANNED

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	15.8509	1.3957	14.4640
1951.	17.7815	1.5648	16.2163
1952.	19.2866	1.6972	17.5889
1953.	20.8157	1.8318	18.9834
1954.	23.2815	2.0488	21.2322
1955.	26.2478	2.3098	23.9375
1956.	28.3328	2.4933	25.8391
1957.	31.3867	2.7620	28.6243
1958.	34.4888	3.0350	31.4534
1959.	38.1147	3.3541	34.7598
1960.	41.3159	3.6358	37.6787
1961.	44.5659	3.9218	40.6431
1962.	46.8857	4.1259	42.7593
1963.	49.2378	4.3329	44.9043
1964.	54.1040	4.7611	49.3418
1965.	57.5405	5.0635	52.4761
1966.	63.0425	5.5477	57.4937
1967.	68.6240	6.0389	62.5830
1968.	73.7734	6.4920	67.2803
1969.	77.9619	6.8606	71.0986
1970.	85.3271	7.5087	77.8164

IMPORTS

YEAR	CALC	I	II
1950.	4.0526	1.1983	2.8542
1951.	4.5206	1.3367	3.1838
1952.	4.8788	1.4426	3.4361
1953.	5.2396	1.5493	3.6902
1954.	5.8318	1.7244	4.1072
1955.	6.5472	1.9348	4.6083
1956.	7.0294	2.0786	4.9507
1957.	7.7506	2.2918	5.4586
1958.	8.4771	2.5067	5.9702
1959.	9.3256	2.7575	6.5679
1960.	10.0631	2.9756	7.0873
1961.	10.8062	3.1953	7.6107
1962.	11.4196	3.3469	7.9716
1963.	11.8346	3.4995	8.3348
1964.	12.9481	3.8287	9.1191
1965.	13.7119	4.0546	9.6571
1966.	14.9598	4.4236	10.5360
1967.	16.2166	4.7952	11.4211
1968.	17.3618	5.1338	12.2278
1969.	18.2727	5.4032	12.8693
1970.	19.9187	5.8899	14.0284

F-D MATRIX FOR CENTRAL PLANNED

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	4.7530	1.3836	3.3693
1951.	5.4329	1.5815	3.8513
1952.	6.0302	1.7554	4.2747
1953.	6.6671	1.9408	4.7263
1954.	7.2327	2.1054	5.1272
1955.	8.1613	2.3757	5.7853
1956.	8.9144	2.5950	6.3193
1957.	9.7070	2.8257	6.8812
1958.	10.3940	3.0257	7.3682
1959.	11.4512	3.3334	8.1176
1960.	12.5052	3.6403	8.8649
1961.	13.5026	3.9306	9.5718
1962.	14.7207	4.2852	10.4353
1963.	15.9576	4.6453	11.3121
1964.	17.6187	5.1287	12.4895
1965.	19.2395	5.6006	13.6385
1966.	21.1001	6.1422	14.9575
1967.	22.6956	6.6066	16.0884
1968.	24.7122	7.1937	17.5181
1969.	26.7900	7.7985	18.9910
1970.	28.6555	8.3416	20.3135

F-D MATRIX FOR LATIN AMERICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	30.8291	5.3642	0.1572	0.2929	5.5554	6.7084	0.7461	7.9230	4.0818	0.0000
1951.	32.5786	5.6686	0.1661	0.3095	5.8706	7.0890	0.7884	8.3726	4.3134	0.0000
1952.	33.7334	5.8695	0.1720	0.3205	6.0747	7.3403	0.8163	8.6694	4.4663	0.0000
1953.	34.8857	6.0701	0.1779	0.3314	6.2854	7.5911	0.8442	8.9656	4.6188	0.0000
1954.	37.8086	6.5786	0.1928	0.3592	6.8131	8.2271	0.9150	9.7168	5.0059	0.0000
1955.	40.1357	6.9835	0.2047	0.3813	7.2324	8.7335	0.9713	10.3147	5.3140	0.0000
1956.	41.8691	7.2852	0.2135	0.3978	7.5448	9.1107	1.0132	10.7603	5.5435	0.0000
1957.	44.1880	7.6886	0.2254	0.4198	7.9626	9.6152	1.0693	11.3562	5.8505	0.0000
1958.	47.0918	8.1938	0.2402	0.4474	8.4860	10.2471	1.1396	12.1025	6.2349	0.0000
1959.	48.2256	8.3912	0.2459	0.4581	8.6902	10.4938	1.1671	12.3938	6.3850	0.0000
1960.	51.1206	8.8949	0.2607	0.4856	9.2119	11.1238	1.2371	13.1379	6.7683	0.0000
1961.	54.5972	9.4999	0.2784	0.5187	9.8384	11.8802	1.3212	14.0313	7.2286	0.0000
1962.	56.8940	9.8995	0.2902	0.5405	10.2523	12.3801	1.3768	14.6216	7.5327	0.0000
1963.	58.6011	10.1965	0.2989	0.5567	10.5599	12.7515	1.4181	15.0603	7.7588	0.0000
1964.	63.2319	11.0023	0.3225	0.6007	11.3944	13.7592	1.5302	16.2505	8.3718	0.0000
1965.	66.6846	11.6030	0.3401	0.6335	12.0164	14.5105	1.6137	17.1377	8.8289	0.0000
1966.	69.5469	12.1011	0.3547	0.6607	12.5322	15.1333	1.6830	17.8735	9.2080	0.0000
1967.	72.4033	12.5981	0.3693	0.6878	13.0471	15.7549	1.7521	18.6074	9.5862	0.0000
1968.	77.0049	13.3987	0.3927	0.7315	13.8762	16.7561	1.8635	19.7900	10.1953	0.0000
1969.	82.1807	14.2993	0.4191	0.7807	14.8088	17.8823	1.9887	21.1201	10.8806	0.0000
1970.	87.3477	15.1982	0.4455	0.8298	15.7400	19.0068	2.1138	22.4482	11.5647	0.0000

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.6700	0.0448	0.1803	0.3017	0.1344	1.5392	0.6776	1.6958	0.0982	0.0000
1951.	4.8944	0.0470	0.1889	0.3162	0.1409	1.6132	0.7102	1.7752	0.1028	0.0000
1952.	5.0258	0.0482	0.1940	0.3247	0.1446	1.6565	0.7292	1.8228	0.1055	0.0000
1953.	5.1539	0.0495	0.1989	0.3329	0.1505	1.6987	0.7478	1.8693	0.1082	0.0000
1954.	5.5383	0.0532	0.2138	0.3578	0.1617	1.8254	0.8036	2.0088	0.1141	0.0000
1955.	5.8289	0.0560	0.2250	0.3765	0.1702	1.9212	0.8458	2.1141	0.1201	0.0000
1956.	6.0290	0.0579	0.2327	0.3894	0.1760	1.9868	0.8746	2.1863	0.1242	0.0000
1957.	6.3063	0.0605	0.2434	0.4074	0.1841	2.0786	0.9150	2.2873	0.1299	0.0000
1958.	6.6613	0.0639	0.2571	0.4303	0.1945	2.1956	0.9666	2.4160	0.1372	0.0000
1959.	6.7607	0.0649	0.2610	0.4367	0.1974	2.2283	0.9810	2.4521	0.1393	0.0000
1960.	7.1018	0.0682	0.2741	0.4588	0.2074	2.3408	1.0305	2.5758	0.1463	0.0000
1961.	7.5156	0.0722	0.2901	0.4855	0.2195	2.4771	1.0905	2.7259	0.1548	0.0000
1962.	7.7505	0.0745	0.2995	0.5013	0.2266	2.5575	1.1259	2.8144	0.1598	0.0000
1963.	7.9177	0.0760	0.3056	0.5115	0.2312	2.6097	1.1488	2.8718	0.1631	0.0000
1964.	8.4628	0.0812	0.3267	0.5467	0.2471	2.7893	1.2279	3.0695	0.1743	0.0000
1965.	8.8398	0.0849	0.3412	0.5710	0.2581	2.9136	1.2827	3.2062	0.1821	0.0000
1966.	9.1502	0.0877	0.3524	0.5898	0.2666	3.0093	1.3248	3.3115	0.1881	0.0000
1967.	9.4124	0.0904	.3633	0.6080	0.2748	3.1023	1.3657	3.4138	0.1939	0.0000
1968.	9.9117	0.0952	.3826	0.6403	0.2894	3.2669	.382	3.5950	0.2042	0.0000
1969.	10.4722	0.1005	0.4042	0.6765	0.3058	3.4516	1.5195	3.7982	0.2157	0.0000
1970.	11.0179	0.1058	0.4253	0.7117	0.3218	3.6307	1.5984	3.9955	0.2269	0.0000

F-D MATRIX FOR LATIN AMERICA

1-AGRICULTURE
2-MINING
3-ENERGY
4-FOOD
5-MANUFACTURING
6-CONSTRUCTION
7-SERVICES I
8-SERVICES II
9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	6.9284	0.4150	0.0000	0.0000	0.0000	3.2730	2.6854	0.0000	0.5550	0.0000
1951.	7.3447	0.4399	0.0000	0.0000	0.0000	3.4696	2.8468	0.0000	0.5883	0.0000
1952.	7.6290	0.4570	0.0000	0.0000	0.0000	3.6039	2.9570	0.0000	0.6111	0.0000
1953.	7.9144	0.4741	0.0000	0.0000	0.0000	3.7388	3.0676	0.0000	0.6339	0.0000
1954.	8.6044	0.5154	0.0000	0.0000	0.0000	4.0647	3.3350	0.0000	0.6892	0.0000
1955.	9.1627	0.5488	0.0000	0.0000	0.0000	4.3284	3.5515	0.0000	0.7339	0.0000
1956.	9.5883	0.5743	0.0000	0.0000	0.0000	4.5295	3.7164	0.0000	0.7680	0.0000
1957.	10.1511	0.6080	0.0000	0.0000	0.0000	4.7953	3.9346	0.0000	0.8131	0.0000
1958.	10.8519	0.6500	0.0000	0.0000	0.0000	5.1264	4.2062	0.0000	0.8692	0.0000
1959.	11.1479	0.6678	0.0000	0.0000	0.0000	5.2663	4.3209	0.0000	0.8929	0.0000
1960.	11.8539	0.7100	0.0000	0.0000	0.0000	5.5997	4.5945	0.0000	0.9495	0.0000
1961.	12.6993	0.7607	0.0000	0.0000	0.0000	5.9991	4.9222	0.0000	1.0172	0.0000
1962.	13.2748	0.7952	0.0000	0.0000	0.0000	6.2710	5.1453	0.0000	1.0633	0.0000
1963.	13.7155	0.8215	0.0000	0.0000	0.0000	6.4792	5.3161	0.0000	1.0986	0.0000
1964.	14.8453	0.8892	0.0000	0.0000	0.0000	7.0129	5.7540	0.0000	1.1891	0.0000
1965.	15.7043	0.9407	0.0000	0.0000	0.0000	7.4187	6.0870	0.0000	1.2579	0.0000
1966.	16.4290	0.9841	0.0000	0.0000	0.0000	7.7610	6.3678	0.0000	1.3159	0.0000
1967.	17.1565	1.0277	0.0000	0.0000	0.0000	8.1047	6.6498	0.0000	1.3742	0.0000
1968.	18.3032	1.0964	0.0000	0.0000	0.0000	8.6464	7.0942	0.0000	1.4661	0.0000
1969.	19.5938	1.1737	0.0000	0.0000	0.0000	9.2560	7.5945	0.0000	1.5695	0.0000
1970.	20.8896	1.2513	0.0000	0.0000	0.0000	9.8682	8.0968	0.0000	1.6732	0.0000

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.0854	0.4085	0.5270	0.0000	0.1675	2.9823	0.0000	0.0000	0.0000	0.0000
1951.	4.5615	0.4562	0.5884	0.0000	0.1870	3.3299	0.0000	0.0000	0.0000	0.0000
1952.	4.9560	0.4956	0.6393	0.0000	0.2032	3.6179	0.0000	0.0000	0.0000	0.0000
1953.	5.3737	0.5374	0.6932	0.0000	0.2203	3.9228	0.0000	0.0000	0.0000	0.0000
1954.	5.7263	0.5726	0.7387	0.0000	0.2348	4.1802	0.0000	0.0000	0.0000	0.0000
1955.	6.3561	0.6356	0.8199	0.0000	0.2606	4.6400	0.0000	0.0000	0.0000	0.0000
1956.	6.8378	0.6838	0.8821	0.0000	0.2803	4.9916	0.0000	0.0000	0.0000	0.0000
1957.	7.3417	0.7342	0.9471	0.0000	0.3010	5.3594	0.0000	0.0000	0.0000	0.0000
1958.	7.7591	0.7759	1.0009	0.0000	0.3181	5.6641	0.0000	0.0000	0.0000	0.0000
1959.	8.4447	0.8445	1.0894	0.0000	0.3462	6.1646	0.0000	0.0000	0.0000	0.0000
1960.	9.1176	0.9118	1.1761	0.0000	0.3738	6.6558	0.0000	0.0000	0.0000	0.0000
1961.	9.7464	0.9740	1.2565	0.0000	0.3994	7.1105	0.0000	0.0000	0.0000	0.0000
1962.	10.5132	1.0513	1.3562	0.0000	0.4310	7.6746	0.0000	0.0000	0.0000	0.0000
1963.	11.2499	1.1290	1.4564	0.0000	0.4623	8.2416	0.0000	0.0000	0.0000	0.0000
1964.	12.3551	1.2355	1.5938	0.0000	0.5066	9.0192	0.0000	0.0000	0.0000	0.0000
1965.	13.3793	1.3379	1.7259	0.0000	0.5485	9.7668	0.0000	0.0000	0.0000	0.0000
1966.	14.5577	1.4558	1.8779	0.0000	0.5969	10.6272	0.0000	0.0000	0.0000	0.0000
1967.	15.5417	1.5542	2.0049	0.0000	0.6372	11.3455	0.0000	0.0000	0.0000	0.0000
1968.	16.8030	1.6803	2.1675	0.0000	0.6889	12.2661	0.0000	0.0000	0.0000	0.0000
1969.	18.0935	1.8094	2.3340	0.0000	0.7418	13.2083	0.0000	0.0000	0.0000	0.0000
1970.	19.2300	1.9230	2.4807	0.0000	0.7884	14.0378	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR LATIN AMERICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.6312	0.4645	0.1061	0.0032	2.3925	0.3848	0.0000	0.4835	0.7946	0.0000
1951.	4.9820	0.4997	0.1141	0.0035	2.5737	0.4140	0.0000	0.5201	0.8549	0.0000
1952.	5.2498	0.5266	0.1202	0.0037	2.7120	0.4363	0.0000	0.5481	0.9010	0.0000
1953.	5.5237	0.5540	0.1265	0.0039	2.8535	0.4590	0.0000	0.5767	0.9501	0.0000
1954.	6.0892	0.6107	0.1394	0.0043	3.1456	0.5060	0.0000	0.6357	1.0473	0.0000
1955.	6.5731	0.6593	0.1505	0.0046	3.3956	0.5462	0.0000	0.6862	1.1306	0.0000
1956.	6.9710	0.6992	0.1596	0.0049	3.6012	0.5793	0.0000	0.7278	1.1990	0.0000
1957.	7.4778	0.7500	0.1712	0.0052	3.8630	0.6214	0.0000	0.7807	1.2862	0.0000
1958.	8.0979	0.8122	0.1854	0.0057	4.1833	0.6729	0.0000	0.8454	1.3928	0.0000
1959.	8.4250	0.8450	0.1929	0.0059	4.3523	0.7001	0.0000	0.8796	1.4491	0.0000
1960.	9.0710	0.9098	0.2077	0.0063	4.6860	0.7538	0.0000	0.9470	1.5602	0.0000
1961.	9.8380	0.9867	0.2253	0.0069	5.0823	0.8175	0.0000	1.0271	1.6921	0.0000
1962.	10.4086	1.0440	0.2384	0.0073	5.3771	0.8649	0.0000	1.0866	1.7903	0.0000
1963.	10.8824	1.0915	0.2492	0.0076	5.6218	0.9043	0.0000	1.1361	1.8718	0.0000
1964.	11.9174	1.1953	0.2729	0.0083	6.1565	0.9903	0.0000	1.2442	2.0498	0.0000
1965.	12.7527	1.2791	0.2920	0.0089	6.5880	1.0597	0.0000	1.3314	2.1935	0.0000
1966.	13.4929	1.3533	0.3090	0.0094	6.9705	1.1213	0.0000	1.4086	2.3208	0.0000
1967.	14.2484	1.4291	0.3263	0.0100	7.3607	1.1840	0.0000	1.4875	2.4507	0.0000
1968.	15.3683	1.5414	0.3519	0.0108	7.9392	1.2771	0.0000	1.6044	2.6433	0.0000
1969.	16.6306	1.6680	0.3808	0.0116	8.5913	1.3820	0.0000	1.7362	2.8605	0.0000
1970.	17.9199	1.7974	0.4104	0.0125	9.2573	1.4891	0.0000	1.8708	3.0822	0.0000

F-D MATRIX FOR LATIN AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	30.8291	10.9196	0.4501	7.4544	12.0048
1951.	32.5786	11.5392	0.4756	7.8774	12.6859
1952.	33.7334	11.9482	0.4925	8.1566	13.1357
1953.	34.8857	12.3564	0.5093	8.4352	13.5844
1954.	37.8046	13.3917	0.5520	9.1420	14.7207
1955.	40.1357	14.2159	0.5860	9.7047	15.6287
1956.	41.8691	14.8300	0.6113	10.1239	16.3037
1957.	44.1880	15.6512	0.6451	10.6846	17.2065
1958.	47.0918	16.6797	0.6875	11.3866	18.3374
1959.	48.2256	17.0813	0.7041	11.6608	18.7798
1960.	51.1206	18.1067	0.7464	12.3608	19.9663
1961.	54.5972	19.3381	0.7971	13.2014	21.2598
1962.	56.8940	20.1519	0.8306	13.7570	22.1543
1963.	58.6011	20.7563	0.8556	14.1696	22.8191
1964.	63.2319	22.3967	0.9232	15.2893	24.6223
1965.	66.6846	23.6194	0.9736	16.1240	25.9666
1966.	69.5469	24.6333	1.0154	16.8162	27.0815
1967.	72.4033	25.6453	1.0571	17.5068	28.1936
1968.	77.0049	27.2749	1.1243	18.6194	29.9854
1969.	82.1807	29.1082	1.1998	19.8708	32.0005
1970.	87.3477	30.9382	1.2753	21.1206	34.0127

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	4.6700	0.1812	0.4819	2.2168	1.7900
1951.	4.8944	0.1899	0.5051	2.3234	1.8760
1952.	5.0258	0.1950	0.5187	2.3857	1.9264
1953.	5.1539	0.2000	0.5319	2.4465	1.9754
1954.	5.5383	0.2149	0.5715	2.6290	2.1228
1955.	5.8289	0.2262	0.6015	2.7670	2.2342
1956.	6.0280	0.2339	0.6221	2.8615	2.3105
1957.	6.3063	0.2447	0.6508	2.9936	2.4172
1958.	6.6613	0.2585	0.6874	3.1621	2.5533
1959.	6.7607	0.2623	0.6977	3.2093	2.5913
1960.	7.1018	0.2755	0.7329	3.3712	2.7221
1961.	7.5156	0.2916	0.7756	3.5676	2.8807
1962.	7.7995	0.3011	0.8008	3.6834	2.9742
1963.	7.9177	0.3072	0.8171	3.7585	3.0349
1964.	8.4628	0.3284	0.8734	4.0172	3.2438
1965.	8.8398	0.3430	0.9123	4.1962	3.3883
1966.	9.1302	0.3543	0.9422	4.3341	3.4996
1967.	9.4124	0.3652	0.9713	4.4680	3.6077
1968.	9.9117	0.3846	1.0229	4.7051	3.7991
1969.	10.4722	0.4063	1.0807	4.9711	4.0139
1970.	11.0179	0.4275	1.1370	5.2302	4.2231

F-D MATRIX FOR LATIN AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	6.9284	0.4150	0.0000	5.9584	0.5550
1951.	7.3447	0.4399	0.0000	6.3164	0.5883
1952.	7.6290	0.4570	0.0000	6.5609	0.6111
1953.	7.9144	0.4741	0.0000	6.8064	0.6339
1954.	8.6044	0.5154	0.0000	7.3997	0.6892
1955.	9.1627	0.5488	0.0000	7.8799	0.7339
1956.	9.5883	0.5743	0.0000	8.2458	0.7680
1957.	10.1511	0.6080	0.0000	8.7299	0.8131
1958.	10.8519	0.6500	0.0000	9.3325	0.8692
1959.	11.1479	0.6678	0.0000	9.5872	0.8929
1960.	11.8539	0.7100	0.0000	10.1942	0.9495
1961.	12.6993	0.7607	0.0000	10.9214	1.0172
1962.	13.2748	0.7952	0.0000	11.4163	1.0633
1963.	13.7155	0.8215	0.0000	11.7953	1.0986
1964.	14.8453	0.8892	0.0000	12.7670	1.1891
1965.	15.7043	0.9407	0.0000	13.5056	1.2579
1966.	16.4290	0.9841	0.0000	14.1288	1.3159
1967.	17.1565	1.0277	0.0000	14.7545	1.3742
1968.	18.3032	1.0964	0.0000	15.7406	1.4661
1969.	19.5938	1.1737	0.0000	16.8503	1.5695
1970.	20.8896	1.2513	0.0000	17.9648	1.6732

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.0854	0.5760	0.5270	2.9823	0.0000
1951.	4.5615	0.6432	0.5884	3.3299	0.0000
1952.	4.9560	0.6988	0.6393	3.6179	0.0000
1953.	5.3737	0.7577	0.6932	3.9228	0.0000
1954.	5.7263	0.8074	0.7387	4.1802	0.0000
1955.	6.3561	0.8962	0.8199	4.6400	0.0000
1956.	6.8378	0.9641	0.8821	4.9916	0.0000
1957.	7.3417	1.0352	0.9471	5.3594	0.0000
1958.	7.7591	1.0940	1.0009	5.6641	0.0000
1959.	8.4447	1.1907	1.0894	6.1646	0.0000
1960.	9.1176	1.2856	1.1761	6.6558	0.0000
1961.	9.7404	1.3734	1.2565	7.1105	0.0000
1962.	10.5132	1.4823	1.3562	7.6746	0.0000
1963.	11.2899	1.5919	1.4564	8.2416	0.0000
1964.	12.3551	1.7421	1.5938	9.0192	0.0000
1965.	13.3793	1.9865	1.7259	9.7668	0.0000
1966.	14.5577	2.0526	1.8779	10.6272	0.0000
1967.	15.5417	2.1914	2.0049	11.3455	0.0000
1968.	16.8030	2.3692	2.1675	12.2661	0.0000
1969.	18.0935	2.5512	.3340	13.2083	0.0000
1970.	19.2300	2.7114	2.4807	14.0378	0.0000

F-D MATRIX FOR LATIN AMERICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.6312	2.8570	0.1093	0.3848	1.2801
1951.	4.9820	3.0733	0.1176	0.4140	1.3770
1952.	5.2498	3.2386	0.1239	0.4363	1.4510
1953.	5.5237	3.4075	0.1304	0.4590	1.5267
1954.	6.0892	3.7563	0.1437	0.5060	1.6830
1955.	6.5731	4.0549	0.1551	0.5462	1.8168
1956.	6.9710	4.3004	0.1645	0.5793	1.9268
1957.	7.4778	4.6130	0.1765	0.6214	2.0668
1958.	8.0979	4.9955	0.1911	0.6729	2.2382
1959.	8.4250	5.1973	0.1988	0.7001	2.3286
1960.	9.0710	5.5958	0.2141	0.7538	2.5072
1961.	9.8380	6.0690	0.2322	0.8175	2.7192
1962.	10.4086	6.4210	0.2456	0.8649	2.8769
1963.	10.8824	6.7133	0.2568	0.9043	3.0079
1964.	11.9174	7.3517	0.2812	0.9903	3.2939
1965.	12.7527	7.8671	0.3010	1.0597	3.5248
1966.	13.4929	8.3237	0.3184	1.1213	3.7294
1967.	14.2484	8.7898	0.3363	1.1840	3.9382
1968.	15.3683	9.4806	0.3627	1.2771	4.2477
1969.	16.6306	10.2593	0.3925	1.3820	4.5967
1970.	17.9199	11.0547	0.4229	1.4891	4.9530

F-D MATRIX FOR LATIN AMERICA

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	30.8291	10.9196	19.9092
1951.	32.5786	11.5398	21.0388
1952.	33.7334	11.9482	21.7847
1953.	34.8857	12.3564	22.5286
1954.	37.8086	13.3917	24.4165
1955.	40.1357	14.2159	25.9192
1956.	41.8691	14.8300	27.0388
1957.	44.1880	15.6512	28.5361
1958.	47.0918	16.6797	30.4114
1959.	48.2256	17.0813	31.1436
1960.	51.1206	18.1067	33.0132
1961.	54.5972	19.3381	35.2578
1962.	56.8940	20.1519	36.7417
1963.	58.6011	20.7563	37.8438
1964.	63.2319	22.3967	40.8345
1965.	66.6846	23.6194	43.0640
1966.	69.5469	24.6333	44.9126
1967.	72.4033	25.6453	46.7573
1968.	77.0049	27.2749	49.7285
1969.	82.1807	29.1082	53.0708
1970.	87.3477	30.9382	56.4082

GOVERNMENT

YEAR	CALC	I	II
1950.	4.6700	0.1812	4.4887
1951.	4.8944	0.1899	4.7045
1952.	5.0258	0.1950	4.8307
1953.	5.1539	0.2000	4.9538
1954.	5.5383	0.2149	5.3234
1955.	5.8289	0.2262	5.6027
1956.	6.0290	0.2339	5.7940
1957.	6.3063	0.2447	6.0615
1958.	6.6613	0.2585	6.4028
1959.	6.7607	0.2623	6.4983
1960.	7.1018	0.2755	6.8261
1961.	7.5156	0.2916	7.2239
1962.	7.7595	0.3011	7.4583
1963.	7.9177	0.3072	7.6104
1964.	8.4628	0.3284	8.1343
1965.	8.8398	0.3430	8.4967
1966.	9.1302	0.3543	8.7759
1967.	9.4124	0.3652	9.0470
1968.	9.9117	0.3846	9.5270
1969.	10.4722	0.4063	10.0657
1970.	11.0179	0.4275	10.5903

I-O MATRIX FOR LATIN AMERICA

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	6.9284	0.4150	6.5133
1951.	7.3447	0.4399	6.9047
1952.	7.6290	0.4570	7.1720
1953.	7.9144	0.4741	7.4403
1954.	8.6044	0.5154	8.0889
1955.	9.1627	0.5488	8.6138
1956.	9.5883	0.5743	9.0138
1957.	10.1511	0.6080	9.5428
1958.	10.8519	0.6500	10.2017
1959.	11.1479	0.6678	10.4801
1960.	11.8539	0.7100	11.1437
1961.	12.6993	0.7607	11.9386
1962.	13.2748	0.7952	12.4795
1963.	13.7155	0.8215	12.8938
1964.	14.8453	0.8892	13.9561
1965.	15.7043	0.9407	14.7634
1966.	16.4290	0.9841	15.4447
1967.	17.1565	1.0277	16.1287
1968.	18.3032	1.0964	17.2065
1969.	19.5938	1.1737	18.4197
1970.	20.8896	1.2513	19.6379

EXPORTS

YEAR	CALC	I	II
1950.	4.0854	0.5760	3.5093
1951.	4.5615	0.6432	3.9183
1952.	4.9560	0.6988	4.2571
1953.	5.3737	0.7577	4.6160
1954.	5.7263	0.8074	4.9188
1955.	6.3561	0.8962	5.4598
1956.	6.8378	0.9641	5.8737
1957.	7.3417	1.0352	6.3065
1958.	7.7591	1.0940	6.6650
1959.	8.4447	1.1907	7.2539
1960.	9.1176	1.2856	7.8319
1961.	9.7404	1.3734	8.3669
1962.	10.5132	1.4823	9.0306
1963.	11.2389	1.5919	9.6979
1964.	12.3551	1.7421	10.6129
1965.	13.3793	1.8865	11.4927
1966.	14.5577	2.0526	12.5051
1967.	15.5417	2.1914	13.3502
1968.	16.8030	2.3692	14.4336
1969.	18.0935	2.5512	15.5422
1970.	19.2300	2.7114	16.5183

F-D MATRIX FOR LATIN AMERICA

I--FOOD
II-NON-FOOD

IMPORTS

YEAR	CALC	I	II
1950.	4.6312	2.8570	1.7742
1951.	4.9820	3.0733	1.9086
1952.	5.2498	3.2386	2.0112
1953.	5.5237	3.4075	2.1161
1954.	6.0892	3.7563	2.3327
1955.	6.5731	4.0549	2.5181
1956.	6.9710	4.3004	2.6706
1957.	7.4778	4.6130	2.8647
1958.	8.0979	4.9955	3.1022
1959.	8.4250	5.1973	3.2276
1960.	9.0710	5.5958	3.4751
1961.	9.8380	6.0690	3.7689
1962.	10.4086	6.4210	3.9875
1963.	10.8824	6.7133	4.1690
1964.	11.9174	7.3517	4.5654
1965.	12.7527	7.8671	4.8855
1966.	13.4929	8.3237	5.1691
1967.	14.2484	8.7898	5.4585
1968.	15.3683	9.4806	5.8875
1969.	16.6306	10.2593	6.3711
1970.	17.9199	11.0547	6.8650

F-D MATRIX FOR MIDDLE EAST

1-AGRICULTURE
2-MINING
3-ENERGY
4-FOOD
5-MANUFACTURING
6-CONSTRUCTION
7-SERVICES I
8-SERVICES II
9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	11.0728	3.3041	0.0155	0.2015	1.7650	2.1979	0.0000	1.4007	2.1880	0.0000
1951.	11.3988	3.4014	0.0160	0.2075	1.8170	2.2626	0.0000	1.4419	2.2524	0.0000
1952.	11.7478	3.5056	0.0164	0.2138	1.8726	2.3319	0.0000	1.4861	2.3214	0.0000
1953.	12.0820	3.6053	0.0169	0.2199	1.9259	2.3983	0.0000	1.5284	2.3874	0.0000
1954.	12.4016	3.7006	0.0174	0.2257	1.9768	2.4617	0.0000	1.5688	2.4505	0.0000
1955.	12.7924	3.8172	0.0179	0.2328	2.0391	2.5393	0.0000	1.6182	2.5277	0.0000
1956.	13.0997	3.9089	0.0183	0.2384	2.0881	2.6003	0.0000	1.6571	2.5885	0.0000
1957.	13.1366	3.9199	0.0184	0.2391	2.0940	2.6076	0.0000	1.6617	2.5958	0.0000
1958.	13.9287	4.1539	0.0195	0.2534	2.2190	2.7632	0.0000	1.7609	2.7507	0.0000
1959.	14.1790	4.2310	0.0199	0.2581	2.2601	2.8145	0.0000	1.7936	2.8017	0.0000
1960.	14.6827	4.3813	0.0206	0.2672	2.3404	2.9145	0.0000	1.8573	2.9013	0.0000
1961.	15.1793	4.5295	0.0213	0.2763	2.4196	3.0131	0.0000	1.9202	2.9994	0.0000
1962.	15.9719	4.7660	0.0224	0.2907	2.5459	3.1704	0.0000	2.0204	3.1560	0.0000
1963.	16.5471	4.9376	0.0232	0.3012	2.6376	3.2845	0.0000	2.0931	3.2697	0.0000
1964.	17.7439	5.2947	0.0248	0.3229	2.8284	3.5222	0.0000	2.2446	3.5062	0.0000
1965.	19.0173	5.6747	0.0266	0.3461	3.0314	3.7749	0.0000	2.4056	3.7578	0.0000
1966.	19.5125	5.8225	0.0273	0.3551	3.1103	3.8733	0.0000	2.4683	3.8556	0.0000
1967.	20.1624	6.0164	0.0282	0.3670	3.2139	4.0022	0.0000	2.5505	3.9840	0.0000
1968.	21.9253	6.5425	0.0307	0.3990	3.4949	4.3521	0.0000	2.7735	4.3324	0.0000
1969.	23.3542	6.9695	0.0327	0.4251	3.7230	4.6362	0.0000	2.9545	4.6151	0.0000
1970.	24.4553	7.2975	0.0342	0.4451	3.8982	4.8544	0.0000	3.0936	4.8323	0.0000

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	1.3906	0.0117	0.0000	0.1774	0.0047	1.0085	0.0834	0.0314	0.0734	0.0000
1951.	1.5215	0.0128	0.0000	0.1941	0.0052	1.1034	0.0913	0.0344	0.0803	0.0000
1952.	1.6634	0.0140	0.0000	0.2122	0.0057	1.2063	0.0998	0.0376	0.0878	0.0000
1953.	1.8117	0.0152	0.0000	0.2312	0.0062	1.3138	0.1087	0.0409	0.0957	0.0000
1954.	1.9663	0.0165	0.0000	0.2509	0.0067	1.4259	0.1180	0.0444	0.1038	0.0000
1955.	2.1416	0.0180	0.0000	0.2733	0.0073	1.5531	0.1285	0.0484	0.1131	0.0000
1956.	2.3126	0.0194	0.0000	0.2951	0.0079	1.6771	0.1388	0.0523	0.1221	0.0000
1957.	2.4428	0.0205	0.0000	0.3117	0.0083	1.7715	0.1466	0.0552	0.1290	0.0000
1958.	2.7238	0.0229	0.0000	0.3475	0.0093	1.9753	0.1634	0.0616	0.1438	0.0000
1959.	2.9164	0.0245	0.0000	0.3721	0.0099	2.1150	0.1750	0.0659	0.1540	0.0000
1960.	3.1719	0.0266	0.0000	0.4047	0.0108	2.3002	0.1903	0.0717	0.1675	0.0000
1961.	3.4415	0.0289	0.0000	0.4391	0.0117	2.4958	0.2065	0.0778	0.1817	0.0000
1962.	3.7977	0.0319	0.0000	0.4846	0.0129	2.7541	0.2279	0.0858	0.2005	0.0000
1963.	4.1235	0.0346	0.0000	0.5262	0.0140	2.9903	0.2474	0.0932	0.2177	0.0000
1964.	4.6316	0.0389	0.0000	0.5910	0.0157	3.3588	0.2779	0.1047	0.2445	0.0000
1965.	5.1968	0.0437	0.0000	0.6631	0.0177	3.7687	0.3118	0.1174	0.2744	0.0000
1966.	5.5797	0.0469	0.0000	0.7120	0.0190	4.0464	0.3348	0.1261	0.2946	0.0000
1967.	6.0356	0.0507	0.0000	0.7695	0.0205	4.3734	0.3618	0.1363	0.3184	0.0000
1968.	6.8571	0.0576	0.0000	0.8750	0.0233	4.9727	0.4114	0.1550	0.3621	0.0000
1969.	7.6355	0.0641	0.0000	0.9743	0.0260	5.5372	0.4581	0.1726	0.4032	0.0000
1970.	8.3546	0.0702	0.0000	1.0660	0.0284	6.0587	0.5013	0.1888	0.4411	0.0000

F-D MATRIX FOR MIDDLE EAST

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	1.9539	0.0000	0.0000	0.0000	0.0000	0.5447	1.3048	0.0000	0.1043	0.0000
1951.	2.0645	0.0000	0.0000	0.0000	0.0000	0.5756	1.3787	0.0000	0.1102	0.0000
1952.	2.1839	0.0000	0.0000	0.0000	0.0000	0.6089	1.4584	0.0000	0.1166	0.0000
1953.	2.3056	0.0000	0.0000	0.0000	0.0000	0.6428	1.5397	0.0000	0.1231	0.0000
1954.	2.4295	0.0000	0.0000	0.0000	0.0000	0.6773	1.6224	0.0000	0.1297	0.0000
1955.	2.5729	0.0000	0.0000	0.0000	0.0000	0.7173	1.7182	0.0000	0.1374	0.0000
1956.	2.7053	0.0000	0.0000	0.0000	0.0000	0.7542	1.8066	0.0000	0.1445	0.0000
1957.	2.7858	0.0000	0.0000	0.0000	0.0000	0.7767	1.8604	0.0000	0.1488	0.0000
1958.	3.0318	0.0000	0.0000	0.0000	0.0000	0.8453	2.0246	0.0000	0.1619	0.0000
1959.	3.1719	0.0000	0.0000	0.0000	0.0000	0.8843	2.1182	0.0000	0.1694	0.0000
1960.	3.3742	0.0000	0.0000	0.0000	0.0000	0.9407	2.2533	0.0000	0.1802	0.0000
1961.	3.5840	0.0000	0.0000	0.0000	0.0000	0.9992	2.3934	0.0000	0.1914	0.0000
1962.	3.8753	0.0000	0.0000	0.0000	0.0000	1.0804	2.5879	0.0000	0.2069	0.0000
1963.	4.1264	0.0000	0.0000	0.0000	0.0000	1.1504	2.7556	0.0000	0.2203	0.0000
1964.	4.5486	0.0000	0.0000	0.0000	0.0000	1.2681	3.0375	0.0000	0.2429	0.0000
1965.	5.0124	0.0000	0.0000	0.0000	0.0000	1.3974	3.3472	0.0000	0.2677	0.0000
1966.	5.2889	0.0000	0.0000	0.0000	0.0000	1.4745	3.5319	0.0000	0.2824	0.0000
1967.	5.6215	0.0000	0.0000	0.0000	0.0000	1.5673	3.7540	0.0000	0.3002	0.0000
1968.	6.2895	0.0000	0.0000	0.0000	0.0000	1.7535	4.2001	0.0000	0.3359	0.0000
1969.	6.8951	0.0000	0.0000	0.0000	0.0000	1.9223	4.6045	0.0000	0.3682	0.0000
1970.	7.4319	0.0000	0.0000	0.0000	0.0000	2.0720	4.9630	0.0000	0.3969	0.0000

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.0411	0.2728	0.0154	0.0097	0.7173	2.9290	0.0000	0.0618	0.0352	0.0000
1951.	4.1848	0.2825	0.0159	0.0100	0.7428	3.0331	0.0000	0.0640	0.0364	0.0000
1952.	4.3390	0.2929	0.0165	0.0104	0.7702	3.1449	0.0000	0.0664	0.0377	0.0000
1953.	4.4901	0.3031	0.0171	0.0108	0.7970	3.2544	0.0000	0.0687	0.0391	0.0000
1954.	4.6381	0.3131	0.0176	0.0111	0.8233	3.3617	0.0000	0.0710	0.0404	0.0000
1955.	4.8132	0.3250	0.0183	0.0116	0.8547	3.4900	0.0000	0.0737	0.0419	0.0000
1956.	4.9637	0.3350	0.0189	0.0119	0.8810	3.5977	0.0000	0.0759	0.0432	0.0000
1957.	5.0115	0.3383	0.0190	0.0120	0.8895	3.6323	0.0000	0.0767	0.0436	0.0000
1958.	5.3477	0.3610	0.0203	0.0128	0.9492	3.8760	0.0000	0.0818	0.0465	0.0000
1959.	5.4858	0.3703	0.0208	0.0132	0.9737	3.9761	0.0000	0.0839	0.0477	0.0000
1960.	5.7224	0.3863	0.0217	0.0137	1.0157	4.1476	0.0000	0.0876	0.0498	0.0000
1961.	5.9633	0.4023	0.0226	0.0143	1.0580	4.3200	0.0000	0.0912	0.0519	0.0000
1962.	6.3199	0.4266	0.0240	0.0152	1.1216	4.5806	0.0000	0.0967	0.0550	0.0000
1963.	6.5992	0.4454	0.0251	0.0158	1.1713	4.7831	0.0000	0.1010	0.0574	0.0000
1964.	7.1341	0.4816	0.0271	0.0171	1.2663	5.1708	0.0000	0.1092	0.0621	0.0000
1965.	7.7098	0.5204	0.0293	0.0185	1.3685	5.5880	0.0000	0.1180	0.0671	0.0000
1966.	7.9783	0.5385	0.0303	0.0191	1.4161	5.7826	0.0000	0.1221	0.0694	0.0000
1967.	8.3167	0.5614	0.0316	0.0200	1.4762	6.0278	0.0000	0.1272	0.0724	0.0000
1968.	9.1259	0.6160	0.0347	0.0219	1.6198	6.6144	0.0000	0.1396	0.0794	0.0[illegible]
1969.	9.8120	0.6621	0.0373	0.0235	1.7416	7.1117	0.0000	0.1501	0.0854	0.0[illegible]
1970.	10.3723	0.7001	0.0394	0.0249	1.8411	7.5178	0.0000	0.1587	0.0902	0.0000

F-D MATRIX FOR MIDDLE EAST

1-AGRICULTURE
2-MINING
3-ENERGY
4-FOOD
5-MANUFACTURING
6-CONSTRUCTION
7-SERVICES I
8-SERVICES II
9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.0590	0.1396	0.0000	3.7679	0.0024	0.0187	0.0000	0.0000	0.1303	0.0000
1951.	4.4375	0.1526	0.0000	4.1193	0.0027	0.0204	0.0000	0.0000	0.1424	0.0000
1952.	4.7258	0.1626	0.0000	4.3870	0.0028	0.0217	0.0000	0.0000	0.1517	0.0000
1953.	5.0276	0.1729	0.0000	4.6671	0.0030	0.0231	0.0000	0.0000	0.1614	0.0000
1954.	5.2613	0.1810	0.0000	4.8840	0.0032	0.0242	0.0000	0.0000	0.1689	0.0000
1955.	5.7401	0.1975	0.0000	5.3285	0.0034	0.0264	0.0000	0.0000	0.1843	0.0000
1956.	6.0744	0.2090	0.0000	5.6389	0.0036	0.0279	0.0000	0.0000	0.1950	0.0000
1957.	6.4202	0.2209	0.0000	5.9598	0.0039	0.0295	0.0000	0.0000	0.2061	0.0000
1958.	6.6838	0.2299	0.0000	6.2045	0.0040	0.0307	0.0000	0.0000	0.2146	0.0000
1959.	7.1703	0.2467	0.0000	6.6561	0.0043	0.0330	0.0000	0.0000	0.2302	0.0000
1960.	7.6354	0.2627	0.0000	7.0879	0.0046	0.0351	0.0000	0.0000	0.2451	0.0000
1961.	8.0496	0.2769	0.0000	7.4723	0.0048	0.0370	0.0000	0.0000	0.2584	0.0000
1962.	8.5784	0.2951	0.0000	7.9633	0.0051	0.0395	0.0000	0.0000	0.2754	0.0000
1963.	9.1001	0.3130	0.0000	8.4475	0.0055	0.0419	0.0000	0.0000	0.2921	0.0000
1964.	9.8420	0.3386	0.0000	9.1364	0.0059	0.0453	0.0000	0.0000	0.3159	0.0000
1965.	10.5378	0.3625	0.0000	9.7822	0.0063	0.0485	0.0000	0.0000	0.3383	0.0000
1966.	11.3416	0.3901	0.0000	10.5283	0.0068	0.0522	0.0000	0.0000	0.3641	0.0000
1967.	11.9812	0.4121	0.0000	11.1221	0.0072	0.0551	0.0000	0.0000	0.3846	0.0000
1968.	12.8225	0.4411	0.0000	11.9031	0.0077	0.0590	0.0000	0.0000	0.4116	0.0000
1969.	13.6725	0.4703	0.0000	12.6921	0.0082	0.0629	0.0000	0.0000	0.4389	0.0000
1970.	14.3940	0.4951	0.0000	13.3619	0.0086	0.0662	0.0000	0.0000	0.4621	0.0000

F-D MATRIX FOR MIDDLE EAST

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	11.0728	5.0690	0.2170	2.1979	3.5886
1951.	11.3988	5.2183	0.2234	2.2626	3.6943
1952.	11.7478	5.3781	0.2303	2.3319	3.8074
1953.	12.0820	5.5311	0.2368	2.3983	3.9157
1954.	12.4016	5.6774	0.2431	2.4617	4.0193
1955.	12.7924	5.8563	0.2507	2.5393	4.1459
1956.	13.0997	5.9970	0.2567	2.6003	4.2456
1957.	13.1366	6.0139	0.2575	2.6076	4.2575
1958.	13.9207	6.3729	0.2728	2.7632	4.5116
1959.	14.1790	6.4911	0.2779	2.8145	4.5953
1960.	14.6827	6.7217	0.2878	2.9145	4.7586
1961.	15.1793	6.9490	0.2975	3.0131	4.9196
1962.	15.9719	7.3119	0.3130	3.1704	5.1765
1963.	16.5471	7.5752	0.3243	3.2845	5.3628
1964.	17.7439	8.1230	0.3478	3.5222	5.7507
1965.	19.0173	8.7061	0.3727	3.7749	6.1635
1966.	19.5125	8.9327	0.3824	3.8732	6.3239
1967.	20.1624	9.2302	0.3952	4.0022	6.5345
1968.	21.9253	10.0374	0.4297	4.3521	7.1059
1969.	23.3562	10.6924	0.4578	4.6362	7.5696
1970.	24.4553	11.1957	0.4793	4.8544	7.9259

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	1.3906	0.0164	0.1774	1.0919	0.1048
1951.	1.5215	0.0180	0.1941	1.1947	0.1147
1952.	1.6634	0.0196	0.2122	1.3061	0.1254
1953.	1.8117	0.0214	0.2312	1.4225	0.1366
1954.	1.9683	0.0232	0.2509	1.5439	0.1483
1955.	2.1416	0.0253	0.2733	1.6816	0.1615
1956.	2.3126	0.0273	0.2951	1.8158	0.1744
1957.	2.4426	0.0288	0.3117	1.9181	0.1842
1958.	2.7238	0.0321	0.3475	2.1387	0.2054
1959.	2.9164	0.0344	0.3721	2.2899	0.2199
1960.	3.1719	0.0374	0.4047	2.4905	0.2392
1961.	3.4415	0.0406	0.4391	2.7022	0.2595
1962.	3.7977	0.0448	0.4846	2.9819	0.2863
1963.	4.1235	0.0487	0.5262	3.2377	0.3109
1964.	4.6316	0.0547	0.5910	3.6367	0.3492
1965.	5.1968	0.0613	0.6631	4.0804	0.3918
1966.	5.5797	0.0658	0.7120	4.3812	0.4207
1967.	6.0306	0.0712	0.7695	4.7352	0.4547
1968.	6.8571	0.0809	0.8750	5.3841	0.5170
1969.	7.6355	0.0901	0.9743	5.9953	0.5757
1970.	8.3546	0.0986	1.0660	6.5599	0.6299

F-D MATRIX FOR MIDDLE EAST

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	1.9539	0.0000	0.0000	1.8495	0.1043
1951.	2.0645	0.0000	0.0000	1.9542	0.1102
1952.	2.1839	0.0000	0.0000	2.0673	0.1166
1953.	2.3056	0.0000	0.0000	2.1825	0.1231
1954.	2.4295	0.0000	0.0000	2.2997	0.1297
1955.	2.5729	0.0000	0.0000	2.4355	0.1374
1956.	2.7053	0.0000	0.0000	2.5608	0.1445
1957.	2.7858	0.0000	0.0000	2.6370	0.1488
1958.	3.0318	0.0000	0.0000	2.8699	0.1619
1959.	3.1719	0.0000	0.0000	3.0025	0.1694
1960.	3.3742	0.0000	0.0000	3.1940	0.1802
1961.	3.5840	0.0000	0.0000	3.3926	0.1914
1962.	3.8753	0.0000	0.0000	3.6683	0.2069
1963.	4.1264	0.0000	0.0000	3.9060	0.2203
1964.	4.5486	0.0000	0.0000	4.3057	0.2429
1965.	5.0124	0.0000	0.0000	4.7446	0.2677
1966.	5.2889	0.0000	0.0000	5.0063	0.2824
1967.	5.6215	0.0000	0.0000	5.3213	0.3002
1968.	6.2895	0.0000	0.0000	5.9536	0.3359
1969.	6.8951	0.0000	0.0000	6.5268	0.3682
1970.	7.4319	0.0000	0.0000	7.0350	0.3969

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.0411	0.9901	0.0251	2.9290	0.0970
1951.	4.1848	1.0253	0.0259	3.0331	0.1004
1952.	4.3390	1.0630	0.0269	3.1449	0.1041
1953.	4.4901	1.1001	0.0278	3.2544	0.1078
1954.	4.6381	1.1363	0.0288	3.3617	0.1113
1955.	4.8152	1.1797	0.0299	3.4900	0.1156
1956.	4.9637	1.2161	0.0308	3.5977	0.1191
1957.	5.0115	1.2278	0.0311	3.6323	0.1203
1958.	5.3477	1.3102	0.0332	3.8760	0.1283
1959.	5.4858	1.3440	0.0340	3.9761	0.1317
1960.	5.7224	1.4020	0.0355	4.1476	0.1373
1961.	5.9603	1.4603	0.0370	4.3200	0.1430
1962.	6.3199	1.5484	0.0392	4.5806	0.1517
1963.	6.5992	1.6168	0.0409	4.7831	0.1584
1964.	7.1341	1.7478	0.0442	5.1708	0.1712
1965.	7.7098	1.8889	0.0478	5.5888	0.1850
1966.	7.9743	1.9537	0.0495	5.7826	0.1915
1967.	8.3167	2.0376	0.0516	6.0278	0.1996
1968.	9.1259	2.2358	0.0566	6.6144	0.2190
1969.	9.8120	2.4039	0.0608	7.1117	0.2355
1970.	10.3723	2.5412	0.0643	7.5178	0.2489

F-D MATRIX FOR MIDDLE EAST

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.0590	0.1421	3.7679	0.0187	0.1303
1951.	4.4375	0.1553	4.1193	0.0204	0.1424
1952.	4.7258	0.1654	4.3870	0.0217	0.1517
1953.	5.0276	0.1760	4.6671	0.0231	0.1614
1954.	5.2613	0.1841	4.8840	0.0242	0.1689
1955.	5.7401	0.2009	5.3285	0.0264	0.1843
1956.	6.0744	0.2126	5.6389	0.0279	0.1950
1957.	6.4202	0.2247	5.9598	0.0295	0.2061
1958.	6.6838	0.2339	6.2045	0.0307	0.2146
1959.	7.1703	0.2510	6.6561	0.0330	0.2302
1960.	7.6354	0.2672	7.0879	0.0351	0.2451
1961.	8.0496	0.2817	7.4723	0.0370	0.2584
1962.	8.5784	0.3002	7.9633	0.0395	0.2754
1963.	9.1001	0.3185	8.4475	0.0419	0.2921
1964.	9.8420	0.3445	9.1364	0.0453	0.3159
1965.	10.5378	0.3688	9.7822	0.0485	0.3383
1966.	11.3416	0.3969	10.5283	0.0522	0.3641
1967.	11.9812	0.4193	11.1221	0.0551	0.3846
1968.	12.8225	0.4488	11.9031	0.0590	0.4116
1969.	13.6725	0.4785	12.6921	0.0629	0.4389
1970.	14.3940	0.5038	13.3619	0.0662	0.4621

F-D MATRIX FOR MIDDLE EAST

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	11.0728	5.0690	6.0035
1951.	11.3988	5.2183	6.1803
1952.	11.7478	5.3781	6.3696
1953.	12.0820	5.5311	6.5508
1954.	12.4016	5.6774	6.7240
1955.	12.7924	5.8563	6.9359
1956.	13.0997	5.9970	7.1025
1957.	13.1366	6.0139	7.1226
1958.	13.9207	6.3729	7.5477
1959.	14.1790	6.4911	7.6877
1960.	14.6627	6.7217	7.9608
1961.	15.1793	6.9490	8.2301
1962.	15.9719	7.3119	8.6598
1963.	16.5471	7.5752	8.9716
1964.	17.7439	8.1230	9.6206
1965.	19.0173	8.7061	10.3110
1966.	19.5125	8.9327	10.5793
1967.	20.1624	9.2302	10.9318
1968.	21.9253	10.0374	11.8877
1969.	23.3562	10.6924	12.6636
1970.	24.4553	11.1957	13.2595

GOVERNMENT

YEAR	CALC	I	II
1950.	1.3906	0.0164	1.3742
1951.	1.5215	0.0180	1.5035
1952.	1.6634	0.0196	1.6437
1953.	1.8117	0.0214	1.7903
1954.	1.9663	0.0232	1.9431
1955.	2.1416	0.0253	2.1163
1956.	2.3126	0.0273	2.2852
1957.	2.4428	0.0288	2.4139
1958.	2.7238	0.0321	2.6916
1959.	2.9164	0.0344	2.8819
1960.	3.1719	0.0374	3.1344
1961.	3.4415	0.0406	3.4008
1962.	3.7977	0.0448	3.7528
1963.	4.1235	0.0487	4.0747
1964.	4.6316	0.0547	4.5768
1965.	5.1968	0.0613	5.1353
1966.	5.5797	0.0658	5.5137
1967.	6.0306	0.0712	5.9593
1968.	6.8571	0.0809	6.7760
1969.	7.6355	0.0901	7.5452
1970.	8.3546	0.0986	8.2559

F-D MATRIX FOR MIDDLE EAST

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	1.9539	0.0000	1.9539
1951.	2.0645	0.0000	2.0645
1952.	2.1839	0.0000	2.1839
1953.	2.3056	0.0000	2.3056
1954.	2.4295	0.0000	2.4295
1955.	2.5729	0.0000	2.5729
1956.	2.7053	0.0000	2.7052
1957.	2.7858	0.0000	2.7858
1958.	3.0318	0.0000	3.0318
1959.	3.1719	0.0000	3.1719
1960.	3.3742	0.0000	3.3742
1961.	3.5840	0.0000	3.5840
1962.	3.8753	0.0000	3.8753
1963.	4.1263	0.0000	4.1263
1964.	4.5486	0.0000	4.5485
1965.	5.0124	0.0000	5.0123
1966.	5.2888	0.0000	5.2888
1967.	5.6215	0.0000	5.6215
1968.	6.2895	0.0000	6.2894
1969.	6.8951	0.0000	6.8950
1970.	7.4319	0.0000	7.4318

IMPORTS

YEAR	CALC	I	II
1950.	4.0411	0.9901	3.0510
1951.	4.1848	1.0253	3.1595
1952.	4.3390	1.0630	3.2759
1953.	4.4901	1.1001	3.3900
1954.	4.6381	1.1363	3.5017
1955.	4.8152	1.1797	3.6354
1956.	4.9637	1.2161	3.7475
1957.	5.0115	1.2278	3.7836
1958.	5.3477	1.3102	4.0374
1959.	5.4858	1.3440	4.1417
1960.	5.7224	1.4020	4.3204
1961.	5.9603	1.4603	4.4999
1962.	6.3199	1.5484	4.7714
1963.	6.5992	1.6168	4.9823
1964.	7.1341	1.7478	5.3862
1965.	7.7098	1.8889	5.8208
1966.	7.9783	1.9547	6.0235
1967.	8.3167	2.0376	6.2789
1968.	9.1259	2.2358	6.8900
1969.	9.8120	2.403[illegible]	7.4080
1970.	10.3723	2.541[illegible]	7.8310

F-D MATRIX FOR MIDDLE EAST

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	4.0390	0.1421	3.9169
1951.	4.4375	0.1553	4.2821
1952.	4.7258	0.1654	4.5604
1953.	5.0276	0.1760	4.8515
1954.	5.2613	0.1841	5.0771
1955.	5.7401	0.2009	5.5391
1956.	6.0744	0.2126	5.8617
1957.	6.4202	0.2247	6.1954
1958.	6.6838	0.2339	6.4498
1959.	7.1703	0.2510	6.9193
1960.	7.6354	0.2672	7.3680
1961.	8.0496	0.2817	7.7676
1962.	8.5784	0.3002	8.2780
1963.	9.1001	0.3185	8.7814
1964.	9.8420	0.3445	9.4974
1965.	10.5378	0.3688	10.1689
1966.	11.3416	0.3969	10.9445
1967.	11.9812	0.4193	11.5616
1968.	12.8225	0.4488	12.3735
1969.	13.6725	0.4785	13.1938
1970.	14.3940	0.5038	13.8901

F-D MATRIX FOR MAIN AFRICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	8.4949	3.5220	0.0136	0.0544	0.7458	0.9021	0.0000	1.5962	1.6607	0.0000
1951.	8.9059	3.6923	0.0142	0.0570	0.7819	0.9458	0.0000	1.6734	1.7411	0.0000
1952.	9.3375	3.8713	0.0149	0.0598	0.8198	0.9916	0.0000	1.7545	1.8255	0.0000
1953.	9.7891	4.0585	0.0157	0.0626	0.8595	1.0396	0.0000	1.8394	1.9137	0.0000
1954.	10.2620	4.2546	0.0164	0.0657	0.9010	1.0898	0.0000	1.9282	2.0062	0.0000
1955.	10.7574	4.4600	0.0172	0.0688	0.9445	1.1424	0.0000	2.0213	2.1031	0.0000
1956.	11.2770	4.6754	0.0180	0.0722	0.9901	1.1976	0.0000	2.1189	2.2046	0.0000
1957.	11.8212	4.9010	0.0189	0.0757	1.0379	1.2554	0.0000	2.2212	2.3110	0.0000
1958.	12.3924	5.1377	0.0198	0.0792	1.0872	1.3150	0.0000	2.3267	2.4207	0.0000
1959.	13.1613	5.4566	0.0211	0.0842	1.1555	1.3977	0.0000	2.4730	2.5730	0.0000
1960.	14.3131	5.9342	0.0229	0.0916	1.2567	1.5201	0.0000	2.6894	2.7982	0.0000
1961.	14.4701	5.9993	0.0232	0.0926	1.2705	1.5367	0.0000	2.7189	2.8289	0.0000
1962.	14.9232	6.1871	0.0239	0.0955	1.3103	1.5848	0.0000	2.8041	2.9174	0.0000
1963.	15.6366	6.4829	0.0250	0.1001	1.3729	1.6606	0.0000	2.9381	3.0569	0.0000
1964.	16.5740	6.8715	0.0265	0.1061	1.4552	1.7601	0.0000	3.1143	3.2402	0.0000
1965.	17.3911	7.2103	0.0278	0.1113	1.5269	1.8469	0.0000	3.2678	3.3999	0.0000
1966.	18.1670	7.5320	0.0291	0.1163	1.5951	1.9293	0.0000	3.4136	3.5516	0.0000
1967.	19.2852	7.9956	0.0309	0.1234	1.6932	2.0481	0.0000	3.6237	3.7702	0.0000
1968.	20.0540	8.3143	0.0321	0.1283	1.7607	2.1297	0.0000	3.7681	3.9205	0.0000
1969.	21.4014	8.8729	0.0342	0.1370	1.8790	2.2728	0.0000	4.0213	4.1839	0.0000
1970.	22.3418	9.2628	0.0357	0.1430	1.9616	2.3727	0.0000	4.1980	4.3678	0.0000

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	0.8162	0.0152	0.0000	0.0338	0.0078	0.0698	0.0294	0.6085	0.0515	0.0000
1951.	0.8640	0.0164	0.0000	0.0366	0.0084	0.0756	0.0318	0.6594	0.0558	0.0000
1952.	0.9568	0.0178	0.0000	0.0396	0.0091	0.0818	0.0344	0.7137	0.0604	0.0000
1953.	1.0349	0.0192	0.0000	0.0428	0.0098	0.0885	0.0373	0.7719	0.0653	0.0000
1954.	1.1186	0.0208	0.0000	0.0463	0.0106	0.0956	0.0403	0.8344	0.0706	0.0000
1955.	1.2083	0.0225	0.0000	0.0500	0.0115	0.1033	0.0435	0.9013	0.0762	0.0000
1956.	1.3045	0.0243	0.0000	0.0540	0.0124	0.1115	0.0470	0.9730	0.0823	0.0000
1957.	1.4075	0.0262	0.0000	0.0583	0.0134	0.1203	0.0507	1.0499	0.0888	0.0000
1958.	1.5168	0.0282	0.0000	0.0628	0.0144	0.1297	0.0546	1.1314	0.0957	0.0000
1959.	1.6578	0.0308	0.0000	0.0686	0.0157	0.1417	0.0597	1.2366	0.1046	0.0000
1960.	1.8531	0.0345	0.0000	0.0767	0.0176	0.1584	0.0667	1.3822	0.1169	0.0000
1961.	1.9248	0.0358	0.0000	0.0797	0.0183	0.1646	0.0693	1.4357	0.1215	0.0000
1962.	2.0385	0.0379	0.0000	0.0844	0.0194	0.1743	0.0734	1.5205	0.1286	0.0000
1963.	2.1927	0.0408	0.0000	0.0908	0.0209	0.1875	0.0789	1.6355	0.1384	0.0000
1964.	2.3849	0.0444	0.0000	0.0987	0.0227	0.2039	0.0859	1.7789	0.1505	0.0000
1965.	2.5670	0.0477	0.0000	0.1063	0.0244	0.2195	0.0924	1.9147	0.1620	0.0000
1966.	2.7497	0.0511	0.0000	0.1138	0.0261	0.2351	0.0990	2.0510	0.1735	0.0000
1967.	2.9922	0.0557	0.0000	0.1239	0.0284	0.2558	0.1077	2.2319	0.1888	0.0000
1968.	3.1685	0.0593	0.0000	0.1320	0.0303	0.2726	0.1148	2.3783	0.2012	0.0000
1969.	3.4859	0.0648	0.0000	0.1443	0.0331	0.2980	0.1255	2.6001	0.2200	0.0000
1970.	3.7269	0.0693	0.0000	0.1543	0.0354	0.3186	0.1342	2.7799	0.2352	0.0000

F-O MATRIX FOR MAIN AFRICA

1-AGRICULTURE 4-FUOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	1.5111	0.0000	0.0000	0.0000	0.0000	0.5787	0.9323	0.0000	0.0000	0.0000
1951.	1.5961	0.0000	0.0000	0.0000	0.0000	0.6113	0.9848	0.0000	0.0000	0.0000
1952.	1.6861	0.0000	0.0000	0.0000	0.0000	0.6458	1.0403	0.0000	0.0000	0.0000
1953.	1.7810	0.0000	0.0000	0.0000	0.0000	0.6821	1.0989	0.0000	0.0000	0.0000
1954.	1.8812	0.0000	0.0000	0.0000	0.0000	0.7205	1.1607	0.0000	0.0000	0.0000
1955.	1.9870	0.0000	0.0000	0.0000	0.0000	0.7610	1.2260	0.0000	0.0000	0.0000
1956.	2.0989	0.0000	0.0000	0.0000	0.0000	0.8039	1.2950	0.0000	0.0000	0.0000
1957.	2.2170	0.0000	0.0000	0.0000	0.0000	0.8491	1.3679	0.0000	0.0000	0.0000
1958.	2.3402	0.0000	0.0000	0.0000	0.0000	0.8963	1.4439	0.0000	0.0000	0.0000
1959.	2.5065	0.0000	0.0000	0.0000	0.0000	0.9600	1.5465	0.0000	0.0000	0.0000
1960.	2.7470	0.0000	0.0000	0.0000	0.0000	1.0521	1.6949	0.0000	0.0000	0.0000
1961.	2.7987	0.0000	0.0000	0.0000	0.0000	1.0719	1.7268	0.0000	0.0000	0.0000
1962.	2.9089	0.0000	0.0000	0.0000	0.0000	1.1141	1.7948	0.0000	0.0000	0.0000
1963.	3.0718	0.0000	0.0000	0.0000	0.0000	1.1765	1.8953	0.0000	0.0000	0.0000
1964.	3.2815	0.0000	0.0000	0.0000	0.0000	1.2568	2.0247	0.0000	0.0000	0.0000
1965.	3.4704	0.0000	0.0000	0.0000	0.0000	1.3291	2.1412	0.0000	0.0000	0.0000
1966.	3.6539	0.0000	0.0000	0.0000	0.0000	1.3994	2.2544	0.0000	0.0000	0.0000
1967.	3.9096	0.0000	0.0000	0.0000	0.0000	1.4974	2.4122	0.0000	0.0000	0.0000
1968.	4.0979	0.0000	0.0000	0.0000	0.0000	1.5695	2.5284	0.0000	0.0000	0.0000
1969.	4.4082	0.0000	0.0000	0.0000	0.0000	1.6883	2.7198	0.0000	0.0000	0.0000
1970.	4.6388	0.0000	0.0000	0.0000	0.0000	1.7766	2.8621	0.0000	0.0000	0.0000

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	2.2122	0.1380	0.1068	0.0438	0.2484	1.3678	0.0000	0.3073	0.0000	0.0000
1951.	2.3470	0.1465	0.1134	0.0465	0.2636	1.4511	0.0000	0.3260	0.0000	0.0000
1952.	2.4901	0.1554	0.1203	0.0493	0.2798	1.5396	0.0000	0.3459	0.0000	0.0000
1953.	2.6417	0.1648	0.1276	0.0523	0.2967	1.6334	0.0000	0.3669	0.0000	0.0000
1954.	2.8023	0.1749	0.1353	0.0555	0.3147	1.7327	0.0000	0.3892	0.0000	0.0000
1955.	2.9725	0.1855	0.1436	0.0589	0.3338	1.8379	0.0000	0.4129	0.0000	0.0000
1956.	3.1532	0.1968	0.1523	0.0624	0.3541	1.9496	0.0000	0.4380	0.0000	0.0000
1957.	3.3446	0.2087	0.1615	0.0662	0.3756	2.0680	0.0000	0.4646	0.0000	0.0000
1958.	3.5469	0.2212	0.1712	0.0702	0.3981	2.1919	0.0000	0.4924	0.0000	0.0000
1959.	3.7627	0.2379	0.1842	0.0755	0.4282	2.3574	0.0000	0.5296	0.0000	0.0000
1960.	4.1955	0.2618	0.2026	0.0831	0.4712	2.5941	0.0000	0.5827	0.0000	0.0000
1961.	4.2418	0.2678	0.2073	0.0850	0.4820	2.6536	0.0000	0.5961	0.0000	0.0000
1962.	4.4286	0.2795	0.2163	0.0887	0.5029	2.7691	0.0000	0.6221	0.0000	0.0000
1963.	4.7482	0.2963	0.2293	0.0940	0.5332	2.9358	0.0000	0.6595	0.0000	0.0000
1964.	5.0924	0.3178	0.2460	0.1008	0.5719	3.1486	0.0000	0.7073	0.0000	0.0000
1965.	5.4067	0.3374	0.2611	0.1071	0.6072	3.3429	0.0000	0.7510	0.0000	0.0000
1966.	5.7147	0.3566	0.2760	0.1131	0.6418	3.5334	0.0000	0.7938	0.0000	0.0000
1967.	6.1381	0.3830	0.2965	0.1215	0.6893	3.7952	0.0000	0.8526	0.0000	0.0000
1968.	6.4583	0.4030	0.3119	0.1279	0.7253	3.9932	0.0000	0.8971	0.0000	0.0000
1969.	6.9737	0.4352	0.3368	0.1381	0.7831	4.3118	0.0000	0.9686	0.0000	0.0000
1970.	7.3661	0.4596	0.3558	0.1458	0.8272	4.5544	0.0000	1.0231	0.0000	0.0000

F-D MATRIX FOR MAIN AFRICA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	1.9512	0.5217	0.2722	0.0084	0.1508	0.8542	0.0000	0.1354	0.0084	0.0000
1951.	2.1512	0.5752	0.3001	0.0093	0.1663	0.9418	0.0000	0.1493	0.0093	0.0000
1952.	2.3096	0.6176	0.3222	0.0099	0.1785	1.0111	0.0000	0.1603	0.0099	0.0000
1953.	2.4764	0.6622	0.3455	0.0106	0.1914	1.0842	0.0000	0.1719	0.0106	0.0000
1954.	2.6111	0.6982	0.3642	0.0112	0.2018	1.1431	0.0000	0.1812	0.0112	0.0000
1955.	2.8694	0.7673	0.4003	0.0123	0.2218	1.2562	0.0000	0.1991	0.0123	0.0000
1956.	3.0577	0.8176	0.4265	0.0131	0.2364	1.3387	0.0000	0.2122	0.0131	0.0000
1957.	3.2536	0.8700	0.4539	0.0140	0.2515	1.4244	0.0000	0.2258	0.0140	0.0000
1958.	3.4092	0.9116	0.4756	0.0147	0.2635	1.4926	0.0000	0.2366	0.0147	0.0000
1959.	3.6803	0.9841	0.5134	0.0158	0.2845	1.6112	0.0000	0.2554	0.0158	0.0000
1960.	3.9429	1.0543	0.5500	0.0170	0.3048	1.7262	0.0000	0.2736	0.0170	0.0000
1961.	4.1811	1.1180	0.5833	0.0180	0.3232	1.8305	0.0000	0.2902	0.0180	0.0000
1962.	4.4811	1.1982	0.6251	0.0193	0.3464	1.9618	0.0000	0.3110	0.0193	0.0000
1963.	4.7798	1.2781	0.6668	0.0206	0.3695	2.0926	0.0000	0.3317	0.0206	0.0000
1964.	5.1970	1.3896	0.7250	0.0223	0.4017	2.2752	0.0000	0.3607	0.0223	0.0000
1965.	5.5931	1.4956	0.7802	0.0240	0.4323	2.4486	0.0000	0.3882	0.0240	0.0000
1966.	6.0497	1.6177	0.8439	0.0260	0.4676	2.6485	0.0000	0.4198	0.0260	0.0000
1967.	6.4219	1.7172	0.8958	0.0276	0.4964	2.8115	0.0000	0.4457	0.0276	0.0000
1968.	6.9052	1.8464	0.9633	0.0297	0.5338	3.0231	0.0000	0.4792	0.0297	0.0000
1969.	7.3966	1.9778	1.0318	0.0318	0.5718	3.2382	0.0000	0.5133	0.0318	0.0000
1970.	7.8214	2.0914	1.0911	0.0336	0.6046	3.4242	0.0000	0.5428	0.0336	0.0000

F-D MATRIX FOR MAIN AFRICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	8.4949	4.2678	0.0680	0.9021	3.2569
1951.	8.9059	4.4742	0.0712	0.9458	3.4145
1952.	9.3375	4.6912	0.0747	0.9916	3.5800
1953.	9.7891	4.9180	0.0783	1.0396	3.7531
1954.	10.2620	5.1555	0.0821	1.0898	3.9344
1955.	10.7574	5.4045	0.0861	1.1424	4.1243
1956.	11.2770	5.6655	0.0902	1.1976	4.3235
1957.	11.8212	5.9388	0.0946	1.2554	4.5322
1958.	12.3824	6.2209	0.0991	1.3150	4.7474
1959.	13.1613	6.6121	0.1053	1.3977	5.0460
1960.	14.3131	7.1909	0.1145	1.5201	5.4876
1961.	14.4701	7.2697	0.1158	1.5367	5.5478
1962.	14.9232	7.4974	0.1194	1.5848	5.7215
1963.	15.6346	7.8558	0.1251	1.6606	5.9950
1964.	16.5740	8.3265	0.1326	1.7601	6.3544
1965.	17.3911	8.7372	0.1391	1.8469	6.6677
1966.	18.1670	9.1270	0.1453	1.9293	6.9654
1967.	19.2852	9.6887	0.1543	2.0481	7.3939
1968.	20.0540	10.0750	0.1604	2.1297	7.6887
1969.	21.4014	10.7520	0.1712	2.2728	8.2052
1970.	22.3418	11.2244	0.1787	2.3727	8.5658

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	0.4162	0.0229	0.0338	0.0992	0.2603
1951.	0.8040	0.0248	0.0366	0.1074	0.7152
1952.	0.9568	0.0269	0.0396	0.1163	0.7740
1953.	1.0349	0.0291	0.0428	0.1257	0.8372
1954.	1.1196	0.0314	0.0463	0.1359	0.9049
1955.	1.2083	0.0340	0.0500	0.1468	0.9775
1956.	1.3045	0.0367	0.0540	0.1585	1.0553
1957.	1.4075	0.0396	0.0583	0.1710	1.1387
1958.	1.5168	0.0426	0.0628	0.1843	1.2271
1959.	1.6578	0.0466	0.0686	0.2014	1.3412
1960.	1.8531	0.0521	0.0767	0.2251	1.4992
1961.	1.9248	0.0541	0.0797	0.2339	1.5572
1962.	2.0385	0.0573	0.0844	0.2477	1.6491
1963.	2.1927	0.0616	0.0908	0.2664	1.7739
1964.	2.3849	0.0670	0.0987	0.2898	1.9294
1965.	2.5670	0.0721	0.1063	0.3119	2.0767
1966.	2.7497	0.0773	0.1138	0.3341	2.2245
1967.	2.9922	0.0841	0.1239	0.3635	2.4207
1968.	3.1685	0.0896	0.1320	0.3874	2.5795
1969.	3.4859	0.0980	0.1443	0.4235	2.8201
1970.	3.7269	0.1047	0.1543	0.4528	3.0150

F-D MATRIX FOR MAIN AFRICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	1.5111	0.0000	0.0000	1.5111	0.0000
1951.	1.5961	0.0000	0.0000	1.5961	0.0000
1952.	1.6861	0.0000	0.0000	1.6861	0.0000
1953.	1.7810	0.0000	0.0000	1.7810	0.0000
1954.	1.8812	0.0000	0.0000	1.8812	0.0000
1955.	1.9870	0.0000	0.0000	1.9870	0.0000
1956.	2.0989	0.0000	0.0000	2.0989	0.0000
1957.	2.2170	0.0000	0.0000	2.2169	0.0000
1958.	2.3422	0.0000	0.0000	2.3401	0.0000
1959.	2.5065	0.0000	0.0000	2.5064	0.0000
1960.	2.7470	0.0000	0.0000	2.7470	0.0000
1961.	2.7987	0.0000	0.0000	2.7987	0.0000
1962.	2.9089	0.0000	0.0000	2.9089	0.0000
1963.	3.0718	0.0000	0.0000	3.0718	0.0000
1964.	3.2815	0.0000	0.0000	3.2815	0.0000
1965.	3.4704	0.0000	0.0000	3.4703	0.0000
1966.	3.6539	0.0000	0.0000	3.6538	0.0000
1967.	3.9096	0.0000	0.0000	3.9096	0.0000
1968.	4.0979	0.0000	0.0000	4.0978	0.0000
1969.	4.4082	0.0000	0.0000	4.4081	0.0000
1970.	4.6388	0.0000	0.0000	4.6387	0.0000

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	2.2132	0.3865	0.1506	1.3678	0.[illegible]73
1951.	2.3470	0.4100	0.1599	1.4511	0.[illegible]260
1952.	2.4901	0.4350	0.1696	1.5398	0.[illegible]459
1953.	2.6417	0.4615	0.1799	1.6334	0.[illegible]669
1954.	2.8023	0.4896	0.1908	1.7327	0.[illegible]892
1955.	2.9725	0.5193	0.2024	1.8379	0.4129
1956.	3.1532	0.5509	0.2147	1.9496	0.4380
1957.	3.3446	0.5843	0.2278	2.0684	0.4646
1958.	3.5469	0.6196	0.2414	2.1949	0.4930
1959.	3.8127	0.6661	0.2596	2.3574	0.5296
1960.	4.1755	0.7294	0.2843	2.5941	0.5827
1961.	4.2418	0.7409	0.2888	2.6353	0.5919
1962.	4.4786	0.7824	0.3050	2.7691	0.6221
1963.	4.7482	0.8295	0.3233	2.9356	0.6596
1964.	5.0424	0.8808	0.3433	3.1186	0.7006
1965.	5.4067	0.9445	0.3682	3.3429	0.7510
1966.	5.7147	0.9984	0.3892	3.5334	0.7938
1967.	6.1381	1.0723	0.4180	3.7952	0.8526
1968.	6.4583	1.1283	0.4398	3.9932	0.8971
1969.	6.9737	1.2183	0.4749	4.3118	0.9686
1970.	7.3661	1.2866	0.5016	4.5544	1.0231

F-D MATRIX FOR MAIN AFRICA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	1.9512	0.6726	0.2806	0.8542	0.1438
1951.	2.1512	0.7415	0.3093	0.9418	0.1585
1952.	2.3096	0.7961	0.3321	1.0111	0.1702
1953.	2.4764	0.8536	0.3561	1.0842	0.1825
1954.	2.6111	0.9000	0.3755	1.1431	0.1924
1955.	2.8694	0.9891	0.4126	1.2562	0.2115
1956.	3.0577	1.0540	0.4397	1.3387	0.2254
1957.	3.2536	1.1215	0.4679	1.4244	0.2398
1958.	3.4092	1.1751	0.4902	1.4926	0.2513
1959.	3.6803	1.2686	0.5292	1.6112	0.2712
1960.	3.9429	1.3591	0.5670	1.7262	0.2906
1961.	4.1811	1.4412	0.6012	1.8305	0.3081
1962.	4.4811	1.5446	0.6444	1.9618	0.3302
1963.	4.7796	1.6476	0.6873	2.0926	0.3523
1964.	5.1970	1.7914	0.7473	2.2752	0.3830
1965.	5.5931	1.9279	0.8043	2.4486	0.4122
1966.	6.0497	2.0853	0.8699	2.6485	0.4459
1967.	6.4219	2.2136	0.9235	2.8115	0.4733
1968.	6.9052	2.3802	0.9930	3.0231	0.5089
1969.	7.3946	2.5496	1.0636	3.2382	0.5451
1970.	7.8214	2.6960	1.1247	3.4242	0.5764

F-D MATRIX FOR MAIN AFRICA

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	8.4949	4.2678	4.2270
1951.	8.9059	4.4742	4.4315
1952.	9.3375	4.6912	4.6463
1953.	9.7891	4.9180	4.8710
1954.	10.2620	5.1555	5.1063
1955.	10.7574	5.4045	5.3528
1956.	11.2770	5.6655	5.6113
1957.	11.8212	5.9388	5.8821
1958.	12.3824	6.2209	6.1614
1959.	13.1613	6.6121	6.5490
1960.	14.3131	7.1909	7.1221
1961.	14.4701	7.2697	7.2003
1962.	14.9232	7.4974	7.4257
1963.	15.6366	7.8558	7.7806
1964.	16.5740	8.3265	8.2471
1965.	17.3911	8.7372	8.6537
1966.	18.1670	9.1270	9.0398
1967.	19.2852	9.6887	9.5962
1968.	20.9540	10.0750	9.9788
1969.	21.4014	10.7520	10.6492
1970.	22.3418	11.2244	11.1172

GOVERNMENT

YEAR	CALC	I	II
1950.	0.8162	0.0229	0.7933
1951.	0.8640	0.0248	0.8592
1952.	0.9266	0.0269	0.9249
1953.	1.0349	0.0291	1.0058
1954.	1.1186	0.0314	1.0872
1955.	1.2083	0.0340	1.1743
1956.	1.3045	0.0367	1.2678
1957.	1.4075	0.0396	1.3679
1958.	1.5168	0.0426	1.4742
1959.	1.6574	0.0466	1.6112
1960.	1.8531	0.0521	1.8010
1961.	1.9248	0.0541	1.8707
1962.	2.0385	0.0573	1.9812
1963.	2.1-27	0.0616	2.1310
1964.	2.3849	0.0670	2.3178
1965.	2.5670	0.0721	2.4948
1966.	2.7497	0.0773	2.6724
1967.	2.9922	0.0841	2.9081
1968.	3.1885	0.0896	3.0988
1969.	3.4859	0.0980	3879
1970.	3.7269	0.1047	.6221

F-D MATRIX FOR MAIN AFRICA

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	1.5111	0.0000	1.5111
1951.	1.5961	0.0000	1.5961
1952.	1.6861	0.0000	1.6861
1953.	1.7810	0.0000	1.7810
1954.	1.8812	0.0000	1.8812
1955.	1.9870	0.0000	1.9870
1956.	2.0989	0.0000	2.0989
1957.	2.2170	0.0000	2.2169
1958.	2.3402	0.0000	2.3401
1959.	2.5065	0.0000	2.5064
1960.	2.7470	0.0000	2.7470
1961.	2.7987	0.0000	2.7987
1962.	2.9089	0.0000	2.9089
1963.	3.0718	0.0000	3.0718
1964.	3.2815	0.0000	3.2815
1965.	3.4704	0.0000	3.4703
1966.	3.6539	0.0000	3.6538
1967.	3.9096	0.0000	3.9096
1968.	4.0979	0.0000	4.0978
1969.	4.4082	0.0000	4.4081
1970.	4.6388	0.0000	4.6387

IMPORTS

YEAR	CALC	I	II
1950.	2.2122	0.3865	1.8257
1951.	2.3470	0.4100	1.9370
1952.	2.4901	0.4350	2.0551
1953.	2.6417	0.4615	2.1802
1954.	2.8023	0.4896	2.3127
1955.	2.9725	0.5193	2.4532
1956.	3.1532	0.5509	2.6023
1957.	3.3446	0.5843	2.7603
1958.	3.5480	0.6193	2.9287
1959.	3.8127	0.6661	3.1466
1960.	4.1955	0.7329	3.4625
1961.	4.2918	0.7498	3.5420
1962.	4.4786	0.7824	3.6961
1963.	4.7482	0.8295	3.9186
1964.	5.0924	0.8896	4.2027
1965.	5.4067	0.9445	4.4620
1966.	5.7147	0.9984	4.7163
1967.	6.1381	1.0723	5.0657
1968.	6.4583	1.1283	5.3300
1969.	6.9737	1.2183	5.7553
1970.	7.3661	1.2868	6.0792

F-D MATRIX FOR MAIN AFRICA

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	1.9512	0.6726	1.2786
1951.	2.1512	0.7415	1.4097
1952.	2.3096	0.7961	1.5135
1953.	2.4764	0.8536	1.6228
1954.	2.6111	0.9000	1.7110
1955.	2.8694	0.9891	1.8803
1956.	3.0577	1.0540	2.0037
1957.	3.2536	1.1215	2.1320
1958.	3.4092	1.1751	2.2340
1959.	3.6803	1.2686	2.4117
1960.	3.9429	1.3591	2.5837
1961.	4.1811	1.4412	2.7398
1962.	4.4811	1.5446	2.9364
1963.	4.7798	1.6476	3.1321
1964.	5.1970	1.7914	3.4055
1965.	5.5931	1.9279	3.6651
1966.	6.8497	2.0853	3.9643
1967.	6.4219	2.2136	4.2082
1968.	6.9052	2.3802	4.5249
1969.	7.3966	2.5496	4.8469
1970.	7.8214	2.6960	5.1253

F-D MATRIX FOR SOUTH EAST ASIA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

CONSUMPTION

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	43.6167	25.1709	0.0000	0.1527	5.5393	4.5143	0.0000	8.2391	0.0000	0.0000
1951.	44.8950	25.9087	0.0000	0.1571	5.7017	4.6466	0.0000	8.4806	0.0000	0.0000
1952.	46.1606	26.6392	0.0000	0.1616	5.8624	4.7776	0.0000	8.7197	0.0000	0.0000
1953.	49.6011	28.6245	0.0000	0.1736	6.2993	5.1337	0.0000	9.3696	0.0000	0.0000
1954.	50.8301	29.3340	0.0000	0.1779	6.4554	5.2609	0.0000	9.6017	0.0000	0.0000
1955.	52.0444	30.0356	0.0000	0.1822	6.6099	5.3868	0.0000	9.8315	0.0000	0.0000
1956.	54.5885	31.5605	0.0000	0.1914	6.9454	5.6602	0.0000	10.3306	0.0000	0.0000
1957.	55.1553	31.8381	0.0000	0.1930	7.0048	5.7086	0.0000	10.4188	0.0000	0.0000
1958.	57.0415	32.9185	0.0000	0.1996	7.2443	5.9038	0.0000	10.7750	0.0000	0.0000
1959.	58.9087	33.9961	0.0000	0.2062	7.4814	6.0970	0.0000	11.1278	0.0000	0.0000
1960.	62.1685	35.8774	0.0000	0.2175	7.8954	6.4344	0.0000	11.7435	0.0000	0.0000
1961.	64.6924	37.3340	0.0000	0.2264	8.2158	6.6957	0.0000	12.2202	0.0000	0.0000
1962.	66.4902	38.3711	0.0000	0.2327	8.4441	6.8817	0.0000	12.5598	0.0000	0.0000
1963.	69.6621	40.2021	0.0000	0.2438	8.8469	7.2100	0.0000	13.1589	0.0000	0.0000
1964.	73.4941	42.4131	0.0000	0.2572	9.3337	7.6066	0.0000	13.8828	0.0000	0.0000
1965.	73.1465	42.2129	0.0000	0.2560	9.2896	7.5707	0.0000	13.8171	0.0000	0.0000
1966.	75.5449	43.5967	0.0000	0.2644	9.5942	7.8188	0.0000	14.2703	0.0000	0.0000
1967.	80.6523	46.5439	0.0000	0.2823	10.2427	8.3475	0.0000	15.2351	0.0000	0.0000
1968.	82.9863	47.8916	0.0000	0.2905	10.5393	8.5891	0.0000	15.6760	0.0000	0.0000
1969.	88.6787	51.1758	0.0000	0.3104	11.2622	9.1782	0.0000	16.7512	0.0000	0.0000
1970.	92.9639	53.6494	0.0000	0.3254	11.8064	9.6217	0.0000	17.5608	0.0000	0.0000

GOVERNMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	3.5529	1.6489	0.0000	0.2778	0.0810	0.5606	0.0000	0.9445	0.0000	0.0000
1951.	3.7749	1.7519	0.0000	0.2952	0.0861	0.5957	0.0000	1.0040	0.0000	0.0000
1952.	4.0036	1.8581	0.0000	0.3131	0.0913	0.6318	0.0000	1.1064	0.0000	0.0000
1953.	4.4347	2.0581	0.0000	0.3468	0.1011	0.6998	0.0000	1.2269	0.0000	0.0000
1954.	4.6817	2.1728	0.0000	0.3661	0.1067	0.7388	0.0000	1.2973	0.0000	0.0000
1955.	4.9354	2.2905	0.0000	0.3859	0.1125	0.7788	0.0000	1.3676	0.0000	0.0000
1956.	5.3562	2.4765	0.0000	0.4173	0.1217	0.8420	0.0000	1.4786	0.0000	0.0000
1957.	5.5347	2.5687	0.0000	0.4328	0.1262	0.8734	0.0000	1.5337	0.0000	0.0000
1958.	5.8836	2.7306	0.0000	0.4601	0.1341	0.9284	0.0000	1.6303	0.0000	0.0000
1959.	6.2425	2.8971	0.0000	0.4882	0.1423	0.9851	0.0000	1.7298	0.0000	0.0000
1960.	6.7652	3.1397	0.0000	0.5290	0.1542	1.0676	0.0000	1.8746	0.0000	0.0000
1961.	7.2259	3.3535	0.0000	0.5651	0.1647	1.1402	0.0000	2.0023	0.0000	0.0000
1962.	7.6198	3.5363	0.0000	0.5959	0.1737	1.2024	0.0000	2.1114	0.0000	0.0000
1963.	8.1875	3.7998	0.0000	0.6403	0.1867	1.2920	0.0000	2.2687	0.0000	0.0000
1964.	8.8553	4.1097	0.0000	0.6925	0.2019	1.3974	0.0000	2.4538	0.0000	0.0000
1965.	9.0319	4.1917	0.0000	0.7063	0.2059	1.4252	0.0000	2.5027	0.0000	0.0000
1966.	9.5559	4.4349	0.0000	0.7473	0.2179	1.5079	0.0000	2.6479	0.0000	0.0000
1967.	10.4475	4.8486	0.0000	0.8170	0.2382	1.6486	0.0000	2.8950	0.0000	0.0000
1968.	11.0049	5.1074	0.0000	0.8606	0.2509	1.7366	0.0000	3.0494	0.0000	0.0000
1969.	12.0349	5.585	0.0000	0.9411	0.2744	1.8991	0.0000	3.3348	0.0000	0.0000
1970.	12.9080	5.9905	0.0000	1.0094	0.2943	2.0369	0.0000	3.5768	0.0000	0.0000

F-D MATRIX FOR SOUTH EAST ASIA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

INVESTMENT

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	5.3506	0.3392	0.0000	0.0000	0.0000	4.0338	0.0000	0.9775	0.0000	0.0000
1951.	5.6915	0.3608	0.0000	0.0000	0.0000	4.2904	0.0000	1.0398	0.0000	0.0000
1952.	6.0428	0.3831	0.0000	0.0000	0.0000	4.5556	0.0000	1.1040	0.0000	0.0000
1953.	6.7002	0.4248	0.0000	0.0000	0.0000	5.0512	0.0000	1.2241	0.0000	0.0000
1954.	7.0603	0.4489	0.0000	0.0000	0.0000	5.3378	0.0000	1.2936	0.0000	0.0000
1955.	7.4708	0.4736	0.0000	0.0000	0.0000	5.6322	0.0000	1.3649	0.0000	0.0000
1956.	8.0846	0.5126	0.0000	0.0000	0.0000	6.0948	0.0000	1.4770	0.0000	0.0000
1957.	8.3923	0.5321	0.0000	0.0000	0.0000	6.3269	0.0000	1.5333	0.0000	0.0000
1958.	8.9285	0.5661	0.0000	0.0000	0.0000	6.7311	0.0000	1.6312	0.0000	0.0000
1959.	9.4803	0.6010	0.0000	0.0000	0.0000	7.1472	0.0000	1.7320	0.0000	0.0000
1960.	10.2815	0.6518	0.0000	0.0000	0.0000	7.7511	0.0000	1.8784	0.0000	0.0000
1961.	10.9894	0.6967	0.0000	0.0000	0.0000	8.2848	0.0000	2.0077	0.0000	0.0000
1962.	11.5961	0.7352	0.0000	0.0000	0.0000	8.7422	0.0000	2.1186	0.0000	0.0000
1963.	12.4679	0.7905	0.0000	0.0000	0.0000	9.3994	0.0000	2.2779	0.0000	0.0000
1964.	13.4932	0.8555	0.0000	0.0000	0.0000	10.1724	0.0000	2.4652	0.0000	0.0000
1965.	13.7703	0.8730	0.0000	0.0000	0.0000	10.3814	0.0000	2.5158	0.0000	0.0000
1966.	14.5776	0.9242	0.0000	0.0000	0.0000	10.9900	0.0000	2.6633	0.0000	0.0000
1967.	15.9463	1.0110	0.0000	0.0000	0.0000	12.0219	0.0000	2.9134	0.0000	0.0000
1968.	16.8059	1.0655	0.0000	0.0000	0.0000	12.6699	0.0000	3.0704	0.0000	0.0000
1969.	18.3882	1.1658	0.0000	0.0000	0.0000	13.8628	0.0000	3.3595	0.0000	0.0000
1970.	19.7317	1.2510	0.0000	0.0000	0.0000	14.8755	0.0000	3.6049	0.0000	0.0000

IMPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	5.2896	1.2991	0.2163	0.4528	0.0381	3.2832	0.0000	0.0000	0.0000	0.0000
1951.	5.5204	1.3558	0.2258	0.4725	0.0397	3.4265	0.0000	0.0000	0.0000	0.0000
1952.	5.7545	1.4133	0.2354	0.4926	0.0414	3.5718	0.0000	0.0000	0.0000	0.0000
1953.	6.2685	1.5395	0.2564	0.5366	0.0451	3.8908	0.0000	0.0000	0.0000	0.0000
1954.	6.5119	1.5993	0.2663	0.5574	0.0469	4.0419	0.0000	0.0000	0.0000	0.0000
1955.	6.7586	1.6599	0.2764	0.5785	0.0487	4.1950	0.0000	0.0000	0.0000	0.0000
1956.	7.1982	1.7679	0.2944	0.6162	0.0518	4.4678	0.0000	0.0000	0.0000	0.0000
1957.	7.3578	1.8071	0.3009	0.6298	0.0530	4.5670	0.0000	0.0000	0.0000	0.0000
1958.	7.7119	1.8940	0.3154	0.6601	0.0555	4.7867	0.0000	0.0000	0.0000	0.0000
1959.	8.0710	1.9822	0.3301	0.6909	0.0581	5.0096	0.0000	0.0000	0.0000	0.0000
1960.	8.6313	2.1198	0.3530	0.7388	0.0621	5.3574	0.0000	0.0000	0.0000	0.0000
1961.	9.1013	2.2353	0.3722	0.7791	0.0655	5.6490	0.0000	0.0000	0.0000	0.0000
1962.	9.4791	2.3278	0.3877	0.8113	0.0682	5.8831	0.0000	0.0000	0.0000	0.0000
1963.	10.0614	2.4711	0.4115	0.8613	0.0724	6.2450	0.0000	0.0000	0.0000	0.0000
1964.	10.7544	2.6413	0.4398	0.9206	0.0774	6.6752	0.0000	0.0000	0.0000	0.0000
1965.	10.8438	2.6632	0.4435	0.9282	0.0781	6.7306	0.0000	0.0000	0.0000	0.0000
1966.	11.3457	2.7865	0.4640	0.9712	0.0817	7.0422	0.0000	0.0000	0.0000	0.0000
1967.	12.2703	3.0135	0.5019	1.0503	0.0883	7.6161	0.0000	0.0000	0.0000	0.0000
1968.	12.7891	3.1410	0.5231	1.0947	0.0921	7.9381	0.0000	0.0000	0.0000	0.0000
1969.	13.8430	3.3998	0.5662	1.1850	0.0997	8.5923	0.0000	0.0000	0.0000	0.0000
1970.	14.6990	3.6100	0.6012	1.2582	0.1058	9.1235	0.0000	0.0000	0.0000	0.0000

F-D MATRIX FOR SOUTH EAST ASIA

1-AGRICULTURE 4-FOOD 7-SERVICES I
2-MINING 5-MANUFACTURING 8-SERVICES II
3-ENERGY 6-CONSTRUCTION 9-DWELLINGS

EXPORTS

YEAR	CALC.	1	2	3	4	5	6	7	8	9
1950.	4.2925	1.4388	0.1511	0.0279	0.1228	1.5350	0.0000	1.0169	0.0000	0.0000
1951.	4.5784	1.5347	0.1612	0.0298	0.1309	1.6372	0.0000	1.0846	0.0000	0.0000
1952.	4.7579	1.5948	0.1675	0.0309	0.1361	1.7014	0.0000	1.1271	0.0000	0.0000
1953.	4.9401	1.6559	0.1739	0.0321	0.1413	1.7666	0.0000	1.1703	0.0000	0.0000
1954.	5.0463	1.6915	0.1776	0.0328	0.1443	1.8046	0.0000	1.1955	0.0000	0.0000
1955.	5.3749	1.8016	0.1892	0.0349	0.1537	1.9221	0.0000	1.2733	0.0000	0.0000
1956.	5.5536	1.8615	0.1955	0.0361	0.1588	1.9860	0.0000	1.3156	0.0000	0.0000
1957.	5.7320	1.9214	0.2018	0.0373	0.1639	2.0497	0.0000	1.3579	0.0000	0.0000
1958.	5.8281	1.9536	0.2052	0.0379	0.1667	2.0841	0.0000	1.3807	0.0000	0.0000
1959.	6.1071	2.0471	0.2150	0.0397	0.1747	2.1839	0.0000	1.4468	0.0000	0.0000
1960.	6.3529	2.1295	0.2236	0.0413	0.1817	2.2718	0.0000	1.5050	0.0000	0.0000
1961.	6.5433	2.1933	0.2303	0.0425	0.1871	2.3399	0.0000	1.5501	0.0000	0.0000
1962.	6.8133	2.2838	0.2398	0.0443	0.1949	2.4364	0.0000	1.6141	0.0000	0.0000
1963.	7.0626	2.3674	0.2486	0.0459	0.2020	2.5256	0.0000	1.6731	0.0000	0.0000
1964.	7.4646	2.5021	0.2628	0.0485	0.2135	2.6693	0.0000	1.7684	0.0000	0.0000
1965.	7.8110	2.6182	0.2749	0.0508	0.2234	2.7932	0.0000	1.8504	0.0000	0.0000
1966.	8.2166	2.7542	0.2892	0.0534	0.2350	2.9382	0.0000	1.9465	0.0000	0.0000
1967.	8.4843	2.8439	0.2986	0.0551	0.2426	3.0339	0.0000	2.0099	0.0000	0.0000
1968.	8.8759	2.9752	0.3124	0.0577	0.2538	3.1740	0.0000	2.1027	0.0000	0.0000
1969.	9.2518	3.1012	0.3257	0.0601	0.2646	3.3084	0.0000	2.1917	0.0000	0.0000
1970.	9.5219	3.1917	0.3352	0.0619	0.2723	3.4050	0.0000	2.2557	0.0000	0.0000

F-O MATRIX FOR SOUTH EAST ASIA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

CONSUMPTION

YEAR	CALC.	I	II	III	IV
1950.	43.6167	30.7102	0.1527	4.5143	8.2391
1951.	44.8950	31.6104	0.1571	4.6446	8.4806
1952.	46.1606	32.5015	0.1616	4.7776	8.7197
1953.	49.6011	34.9238	0.1736	5.1337	9.3696
1954.	50.8301	35.7891	0.1779	5.2609	9.6017
1955.	52.0464	36.6455	0.1822	5.3866	9.8315
1956.	54.6885	38.5059	0.1914	5.6602	10.3386
1957.	55.1553	38.8345	0.1930	5.7086	10.4188
1958.	57.0415	40.1626	0.1996	5.9038	10.7750
1959.	58.9087	41.4775	0.2062	6.0970	11.1278
1960.	62.1685	43.7725	0.2176	6.4344	11.7435
1961.	64.6924	45.5498	0.2264	6.6957	12.2202
1962.	66.4902	46.8149	0.2327	6.8817	12.5598
1963.	69.6621	49.0488	0.2438	7.2100	13.1589
1964.	73.4941	51.7466	0.2572	7.6066	13.8828
1965.	73.1465	51.5024	0.2560	7.5707	13.8171
1966.	75.5449	53.1909	0.2644	7.8188	14.2703
1967.	80.6523	56.7866	0.2823	8.3475	15.2351
1968.	82.9863	58.4307	0.2905	8.5891	15.6760
1969.	88.6787	62.4380	0.3104	9.1782	16.7512
1970.	92.9639	65.4551	0.3254	9.6217	17.5608

GOVERNMENT

YEAR	CALC.	I	II	III	IV
1950.	3.5529	1.7299	0.2778	0.5606	0.9845
1951.	3.7749	1.8380	0.2952	0.5957	1.0460
1952.	4.0036	1.9493	0.3131	0.6318	1.1094
1953.	4.4347	2.1592	0.3468	0.6996	1.2289
1954.	4.6417	2.2795	0.3661	0.7388	1.2973
1955.	4.9354	2.4030	0.3859	0.7788	1.3676
1956.	5.3362	2.5981	0.4173	0.8420	1.4786
1957.	5.5547	2.6949	0.4328	0.8734	1.5337
1958.	5.8836	2.8647	0.4601	0.9284	1.6303
1959.	6.2425	3.0394	0.4882	0.9851	1.7298
1960.	6.7652	3.2939	0.5290	1.0676	1.8746
1961.	7.2259	3.5182	0.5651	1.1402	2.0023
1962.	7.6198	3.7101	0.5959	1.2024	2.1114
1963.	8.1475	3.9665	0.6403	1.2920	2.2687
1964.	8.8553	4.3116	0.6925	1.3974	2.4538
1965.	9.0319	4.3975	0.7063	1.4252	2.5027
1966.	9.5559	4.6527	0.7473	1.5079	2.6479
1967.	10.4475	5.0868	0.8170	1.6486	2.8950
1968.	11.0049	5.3582	0.8606	1.7366	3.0494
1969.	12.0349	5.8597	0.9411	1.8991	3.3348
1970.	12.9080	6.2848	1.0094	2.0369	3.5768

F-D MATRIX FOR SOUTH EAST ASIA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

INVESTMENT

YEAR	CALC.	I	II	III	IV
1950.	5.3506	0.3392	0.0000	4.0338	0.9775
1951.	5.6915	0.3608	0.0000	4.2908	1.0398
1952.	6.0428	0.3831	0.0000	4.5556	1.1040
1953.	6.7002	0.4248	0.0000	5.0512	1.2241
1954.	7.0803	0.4489	0.0000	5.3378	1.2936
1955.	7.4708	0.4736	0.0000	5.6322	1.3649
1956.	8.0846	0.5126	0.0000	6.0948	1.4770
1957.	8.3923	0.5321	0.0000	6.3269	1.5333
1958.	8.9285	0.5661	0.0000	6.7311	1.6312
1959.	9.4803	0.6010	0.0000	7.1472	1.7320
1960.	10.2815	0.6518	0.0000	7.7511	1.8784
1961.	10.9894	0.6967	0.0000	8.2848	2.0077
1962.	11.5961	0.7352	0.0000	8.7422	2.1186
1963.	12.4679	0.7905	0.0000	9.3994	2.2779
1964.	13.4932	0.8555	0.0000	10.1724	2.4652
1965.	13.7703	0.8730	0.0000	10.3813	2.5158
1966.	14.5776	0.9242	0.0000	10.9900	2.6633
1967.	15.9463	1.0110	0.0000	12.0219	2.9134
1968.	16.8059	1.0655	0.0000	12.6699	3.0704
1969.	18.3882	1.1658	0.0000	13.8628	3.3595
1970.	19.7317	1.2510	0.0000	14.8755	3.6049

IMPORTS

YEAR	CALC.	I	II	III	IV
1950.	5.2896	1.3372	0.6691	3.2832	0.0000
1951.	5.5204	1.3955	0.6983	3.4265	0.0000
1952.	5.7545	1.4547	0.7279	3.5718	0.0000
1953.	6.2685	1.5847	0.7930	3.8908	0.0000
1954.	6.5119	1.6462	0.8237	4.0419	0.0000
1955.	6.7586	1.7086	0.8550	4.1950	0.0000
1956.	7.1982	1.8197	0.9106	4.4678	0.0000
1957.	7.3578	1.8600	0.9308	4.5670	0.0000
1958.	7.7119	1.9496	0.9755	4.7867	0.0000
1959.	8.0710	2.0403	1.0210	5.0096	0.0000
1960.	8.6313	2.1820	1.0918	5.3574	0.0000
1961.	9.1013	2.3008	1.1513	5.6490	0.0000
1962.	9.4781	2.3961	1.1990	5.8831	0.0000
1963.	10.0614	2.5435	1.2728	6.2450	0.0000
1964.	10.7544	2.7187	1.3604	6.6752	0.0000
1965.	10.8438	2.7413	1.3717	6.7306	0.0000
1966.	11.3457	2.8682	1.4352	7.0422	0.0000
1967.	12.2783	3.1019	1.5522	7.6161	0.0000
1968.	12.7691	3.2330	1.6178	7.9381	0.0000
1969.	13.8430	3.4995	1.7511	8.5923	0.0000
1970.	14.6990	3.7159	1.8594	9.1235	0.0000

F-D MATRIX FOR SOUTH EAST ASIA

I-AGRICULTURE + FOOD III-MANUFACT. + CONSTRUCTION
II-MINING + ENERGY IV-SERVICES + DWELLINGS

EXPORTS

YEAR	CALC.	I	II	III	IV
1950.	4.2925	1.5616	0.1790	1.5350	1.0169
1951.	4.5784	1.6656	0.1909	1.6372	1.0846
1952.	4.7579	1.7309	0.1984	1.7014	1.1271
1953.	4.9401	1.7972	0.2060	1.7666	1.1703
1954.	5.0463	1.8358	0.2104	1.8046	1.1955
1955.	5.3749	1.9554	0.2241	1.9221	1.2733
1956.	5.5536	2.0204	0.2316	1.9860	1.3156
1957.	5.7320	2.0853	0.2390	2.0497	1.3579
1958.	5.8281	2.1202	0.2430	2.0841	1.3807
1959.	6.1071	2.2217	0.2547	2.1839	1.4468
1960.	6.3529	2.3112	0.2649	2.2718	1.5050
1961.	6.5433	2.3804	0.2729	2.3399	1.5501
1962.	6.8133	2.4787	0.2841	2.4364	1.6141
1963.	7.0626	2.5693	0.2945	2.5256	1.6731
1964.	7.4646	2.7156	0.3113	2.6693	1.7684
1965.	7.8110	2.8416	0.3257	2.7932	1.8504
1966.	8.2156	2.9891	0.3426	2.9382	1.9465
1967.	8.4843	3.0865	0.3538	3.0339	2.0099
1968.	8.8759	3.2290	0.3701	3.1740	2.1027
1969.	9.2518	3.3658	0.3858	3.3084	2.1917
1970.	9.5219	3.4640	0.3971	3.4050	2.2557

F-D MATRIX FOR SOUTH EAST ASIA

I--FOOD
II-NON-FOOD

CONSUMPTION

YEAR	CALC	I	II
1950.	43.6167	30.7102	12.9061
1951.	44.8950	31.6104	13.2843
1952.	46.1606	32.5015	13.6588
1953.	49.6011	34.9238	14.6769
1954.	50.8301	35.7891	15.0404
1955.	52.0454	36.6455	15.4004
1956.	54.6885	38.5059	16.1821
1957.	55.1553	38.8345	16.3203
1958.	57.0415	40.1626	16.8784
1959.	58.9087	41.4775	17.4309
1960.	62.1685	43.7725	18.3955
1961.	64.6924	45.5498	19.1421
1962.	66.4902	46.8149	19.6741
1963.	69.6621	49.0488	20.6125
1964.	73.4941	51.7466	21.7466
1965.	73.1465	51.5024	21.6438
1966.	75.5449	53.1909	22.3535
1967.	80.6523	56.7866	23.8647
1968.	82.9863	58.4307	24.5554
1969.	88.6787	62.4380	26.2397
1970.	92.9639	65.4561	27.5078

GOVERNMENT

YEAR	CALC	I	II
1950.	3.5529	1.7299	1.8230
1951.	3.7749	1.8380	1.9369
1952.	4.0036	1.9493	2.0542
1953.	4.4347	2.1592	2.2754
1954.	4.6817	2.2795	2.4021
1955.	4.9354	2.4030	2.5323
1956.	5.3362	2.5981	2.7379
1957.	5.5347	2.6949	2.8398
1958.	5.8836	2.8647	3.0189
1959.	6.2425	3.0394	3.2030
1960.	6.7652	3.2939	3.4712
1961.	7.2259	3.5182	3.7076
1962.	7.6198	3.7101	3.9097
1963.	8.1875	3.9865	4.2010
1964.	8.8553	4.3116	4.5436
1965.	9.0319	4.3975	4.6342
1966.	9.5559	4.6527	4.9030
1967.	10.4475	5.0868	5.3605
1968.	11.0049	5.3582	5.6465
1969.	12.0349	5.8597	6.1750
1970.	12.9080	6.2848	6.6230

F-D MATRIX FOR SOUTH EAST ASIA

I--FOOD
II-NON-FOOD

INVESTMENT

YEAR	CALC	I	II
1950.	5.3506	0.3392	5.0113
1951.	5.6915	0.3608	5.3306
1952.	6.0428	0.3831	5.6596
1953.	6.7002	0.4248	6.2753
1954.	7.0803	0.4489	6.6313
1955.	7.4708	0.4736	6.9971
1956.	8.0846	0.5126	7.5718
1957.	8.3923	0.5321	7.8602
1958.	8.9285	0.5661	8.3622
1959.	9.4803	0.6010	8.8792
1960.	10.2815	0.6518	9.6295
1961.	10.9894	0.6967	10.2925
1962.	11.5941	0.7352	10.8607
1963.	12.4679	0.7905	11.6772
1964.	13.4932	0.8555	12.6375
1965.	13.7703	0.8730	12.8971
1966.	14.5776	0.9242	13.6532
1967.	15.9463	1.0110	14.9352
1968.	16.8059	1.0655	15.7402
1969.	18.3882	1.1658	17.2222
1970.	19.7317	1.2510	18.4802

IMPORTS

YEAR	CALC	I	II
1950.	5.2896	1.3372	3.9523
1951.	5.5204	1.3955	4.1248
1952.	5.7545	1.4547	4.2997
1953.	6.2685	1.5847	4.6837
1954.	6.5119	1.6462	4.8656
1955.	6.7596	1.7086	5.0499
1956.	7.1992	1.8197	5.3784
1957.	7.3578	1.8600	5.4977
1958.	7.7119	1.9496	5.7623
1959.	8.0710	2.0403	6.0306
1960.	8.6313	2.1820	6.4492
1961.	9.1013	2.3008	6.8004
1962.	9.4781	2.3961	7.0820
1963.	10.0614	2.5435	7.5177
1964.	10.7544	2.7187	8.0355
1965.	10.8438	2.7413	8.1023
1966.	11.3457	2.8682	8.4774
1967.	12.2703	3.1019	9.1682
1968.	12.7891	3.2330	9.5559
1969.	13.8430	3.4995	.3434
1970.	14.6990	3.7159	10.9829

F-D MATRIX FOR SOUTH EAST ASIA

I--FOOD
II-NON-FOOD

EXPORTS

YEAR	CALC	I	II
1950.	4.2925	1.5616	2.7308
1951.	4.5784	1.6656	2.9128
1952.	4.7579	1.7309	3.0269
1953.	4.9401	1.7972	3.1429
1954.	5.0463	1.8358	3.2104
1955.	5.3749	1.9554	3.4195
1956.	5.5536	2.0204	3.5332
1957.	5.7320	2.0853	3.6467
1958.	5.8281	2.1202	3.7078
1959.	6.1071	2.2217	3.8853
1960.	6.3529	2.3112	4.0417
1961.	6.5433	2.3804	4.1628
1962.	6.8133	2.4787	4.3345
1963.	7.0626	2.5693	4.4932
1964.	7.4646	2.7156	4.7489
1965.	7.8110	2.8416	4.9693
1966.	8.2166	2.9891	5.2274
1967.	8.4843	3.0865	5.3976
1968.	8.8759	3.2290	5.6468
1969.	9.2518	3.3658	5.8859
1970.	9.5219	3.4640	6.0577