#### A SOCIAL ACCOUNTING MATRIX OF TURKEY IN 1998

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#### Abstract

The Social Accounting Matrix (SAM) is one of the most useful tools in economic research. The matrix, offering an efficient means of summarizing complex economic relationships, can be utilized for policy analysis, economic planning, and identification of gaps in statistical information.

With this study, we aim to analyze the characteristics of SAM of Turkey, which form a wide database of economy containing information about the flow of resources associated with all transactions that took place between economic agents in 1998.

While data sources such as Input–Output tables, State Statistical Institute, State Planning Organization, Treasury, and Central Bank provide data for SAM, as a matter of fact, SAM itself makes up a basic data set for the construction of Computable General Equilibrium (CGE). Thus, the data for this study was collected from published statistical output of various accounts of economy, current account balances, public balance, and household statistics.

We believe that SAM may prove to be a very useful tool in evaluation and assessment of economy, providing significant assistance for policy makers, economists and statisticians in their research concerning economical issues.

#### 1) Introduction

Social Accounting Matrix (SAM) is an accounting system in which the parts related to the whole of economy are joined together; it harmonizes differences between various accounting groups and that enables us to have information related to general view of the economy. SAM also has the ability to provide data for models used in research related to economical politics.

SAM arises from the need to find out more about the effects of macroeconomic policies at sectoral level, and sectoral policies at macroeconomic level. Based on the principle that the study of a sector should be carried out under a general equilibrium approach, moving beyond the context of partial equilibrium, SAM is one possibility for meeting such needs, in that it provides a complete account of circular flow in economy.

The particular method of accounting for economic activity dates back to a number of different sources, starting with F. Quesnay's "tableau economique" in the 18<sup>th</sup> Century. In 20<sup>th</sup> Century, social accounting was intensively affected by National Income Accounting of Kuznets(1937)<sup>1</sup> and research of Leontief (1941)<sup>2</sup>. The development of current age of SAM started with Meade and Stone's (1941)<sup>3</sup> study which prepared the first double-recorded income accounting method for British Council of Ministers (Kehoe, 1996). Although the basic of matrix accounting has a long history, SAM was first introduced in a study by Sir Richard Stone in 1960 conducted on England and some other industrialized countries (Round 2003, Özhan,1988).

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<sup>&</sup>lt;sup>1</sup> Kuznets S.(1937), Natural Income and Capital Formation 1919-1935. New York National Bureau of Economic Research

<sup>&</sup>lt;sup>2</sup> Leontief, W.W.(1941), The Structure of American Economy, 1919-1929: An Empirical Application of Equilibrium Analysis. Cambridge, Mass. Harvard University Press

<sup>&</sup>lt;sup>3</sup> Meade, J.E., AND Stone, J.R.N(1941),"The Construction of Tables of National Income, Expenditure, Savings and Investment" Economic Journal 51, 216-233

The study carried out by Sir Richard Stone and his team, supporting multisectoral economic model, was structured for Cambridge growing project. After this pioneering study, many economy foundations tried to improve this idea. Collaborating with each other, International Development Department and Warwick University tried to structure SAM for some countries such as Switzerland, Kenya, Botswana and Fiji (Allen 2001). The general shape of an SAM framework was first described by Pyatt and Thorbecke (1976). Afterwards, Pyatt and Roe (1977) published a book giving a detailed description of the example of Sri Lanka. Since then, SAMs have been applied to attain a variety of different goals. Income distribution and redistribution, growth strategies in developing economies, the decomposition of activity multipliers that shed light on the circuits comprising the circular flow of income, combination of social, technological / environmental and economic issues are some of the goals that SAM is interested in (Santos, 2003).

Sri Lanka (Narapalasingan, 1970), Switzerland (Webster, 1971-1972), Botswana (Greenfield, 1974-1975), Tunusia (Salem, 1996), Tanzania (Wobst, 1992), Mozambique (Arndt et al, 1994-1995), Vietnam (Nielsen, 1996-1997; Tarp et al, 2000), Zimbabwe (Thomas and Bautista, 1991), Malawi (Chulu and Wobst, 1998), Thailand (Chunh-Li, 1998), Bangladesh (Fontana and Wobst, 1993-1994), Portugal (Santos, 2003), Turkey (Ozhan, 1988; Köse and Yeldan 1996; Telli, 2003) are some of the country examples where SAM was applied.

#### 2) Construction of SAM

SAM, deals with the arrangement of information. Most times, information about a country or one of its regions may change within a period of a year. In most developing countries, reliability of economical and social data is a serious issue. SAM

provides a platform where such deficiencies and inconsistencies caused by scattered or fragmented data can be better dealt with. When a certain country's data belonging to a certain period is arranged in SAM's format, this representation provides a general momentary view of the economic structure of that country to be utilized in research. Analyzing how economy works, and thus estimating the effects of political interferences requires more than a static view. For instance, it is possible to be able to estimate the effects of interferences by designing an economy model for political and social issues, where SAM, as a statistical base, proves to be extremely significant in terms of provision of data (King ,1985).

Robinson et al (1999) describes SAM as a synthesis of two models established in economy. One of these models shows the system of relationships among industries. The inputs in a sector may lead to outputs in another sector. This operation, which requires the input to be entered in one cell, helps surmounting the difficulty usually encountered in traditional double-record accountancy. SAM generalizes the logic of inputs and outputs, which is a sector's buyings are another's selling; this, including not only the flow among industries, but also all other processes in economy. Let us suppose a flow of money from members of a household to a producer sector, or a flow of money as tax-paying from the same members to the government is thus recorded as spending in the column for one actor, and as income for another actor in the row. The other model entails that the income derived from national income accountancy always equals spending. Although the concept of balancing exists in general economy, we see that this model also requires the balancing of all factor accounts in accounting. For instance, according to this, as well as general economy models, the income gained from the sellings in agriculture sector should be equal to all spendings in labour, import and

capital services in this sector. Traditionally, linked to the requirement of balancing of both sides in economy, double recorded accountancy is carried out. Incomes are entered in rows, and spendings in columns in SAM, thus budget restriction requires rows (income) addition to be equal to columns (spending) addition.

SAM provides a wide view about general economy. It illustrates the relationship between different decision units which are not included in National Income Accounts. SAM has a structure enabling it to consistently collect large amount of data from different sources. It is an important tool contributing to the creation of the National macro economic database. It is not, however, suitable for being utilized as a model since it regards coefficients as stables. Furthermore, SAM data creates a base for complex multi-sectoral economical models (Allen,1998). SAM is generally used in studies related to issues such as development strategies, income distribution, national and regional economy policies and decomposition of activity factors leading to circular income stream and national and regional economy policies (Roland-Holst et al., 1995). More popular usage area of SAM does also provide data in constructing Computable General Equilibrium (CGE) models (Kehoe,1996).

Round (2003) summarizes the three basic motivations which enable the development of SAM. First, with the construction of SAM, data from different sources helping to evaluate structural characteristics of economy is brought together. Besides, SAM has a positive effect on the development of estimation quality index by identifying data need and key points. Secondly, in terms of data provision, SAM, simply and clearly, demonstrates independence of economic structure in macro and micro levels. It clearly highlights connection between income distribution and economic structure.

Thirdly, in terms of modeling, it provides a useful analytic framework. It provides a direct input for model index; includes fixed price multiplier coefficient, and enables index data set for calibration of computable general equilibrium modelling.

There is a close relationship between Social Accounts and National Accounts. Both basic framework and accounting system each contains processes such as purchasing, selling, paying, income, and transfer (voluntarily or reluctantly) in a period of an economy. The difference between the Social Accounts and National Accounts is very important, in that the national accounts primarily deal with analyzing the production of goods and services, the way they are used for final and intermediate consumption, export and accumulation, used in production process. The Social Accounts, however, emphasis has been on the distribution and redistribution of income generated by the production process. Most of the studies it is emphasized that the accounting system should provide for both purposes and much more attention has been given to this in the new System of National Accounts (Allen, 2001).

Some stages are followed in structuring SAM. Allen (1998) summarizes these stages to put SAM in practice. Initially, researchers should investigate what data is available at what data centers; and then, by identifying the purpose of SAM, utilize the data to attain this purpose. Besides database centers, administrative records and private sector sources are also regarded as data suppliers for SAM. In case there is new data entry, this data should be harmonized with previous data. Setting and entering the first estimations, then tabulation takes place. The data collected about a particular account from various sources is mostly inconsistent. For that reason, more than one estimation for a cell may be necessary. The correcting and harmonizing process starts by checking

the stabilization of lines and columns whether they fit each other. The first issue to be looked into is deciding whether there is a match between rows and columns. Although this approach may not sound scientific, it is, however, valid in many cases, for it lets users carry out the required replications and state the reasons clearly. Despite all this, there still may remain some inconsistencies, which may be balanced through the RAS<sup>4</sup> method if the inconsistencies are few and the addition of right line and column is known. This method is an iterative method which divides the differences according to the magnitude of component cells is a widely used method balancing SAMs. It is used when new information on the matrix row and column sums become available and we want to update an existing matrix.

These methods may yield results solely based on estimations, or in some conditions, they may not be used because the row and column sums may not be known for certain. Various techniques based upon the variance estimations of cells and requiring lineer limitations on estimation groups have been identified.

Within a strict methodology, the organization of this study plays an important role in the process of the construction of SAM. While SAM is being structured, data is obtained from Central Banks, the State Planning Organizations, the National Treasuries, the State Statistic Institutes and ministries. While matrix is being structured, different people form different jobs deal with different phases. SAM has a specification of being an important tool in determining the socio-economical policies and different levels of planning. Thus, it is not only collected by the statisticians. The data supplied by politicians and planners for SAM, is also available for these very people in order to

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<sup>&</sup>lt;sup>4</sup> Robichaud, Veronique(2000), "Example of the RAS Technique" http://www.crefa.ecn.ulaval.ca/develop/MemoontheRAStechnique.pdf

meet data needs. Not everybody is involved at all levels of structuring SAM. For instance, while identifying classification requires data from many sides, tabulation can be best implemented by statisticians, and economists are required to evaluate results (Keuning and Ruijter, 1988).

How much SAM has been disaggregated depends on suitable data limitation and motivation of the people structuring the model. Moreover, the construction of SAM changes in accordance with the policy problem to be analyzed in the CGE model. Therefore, there is no standard SAM able to serve all aims (Hwang 2003:44). Keuning and Rujiter (1988) tried to provide discussions in order to create a standardized SAM. Although a detailed design has never been realized, Keuning and Rujiter made suggestions for following a similar way in the construction of all SAMs for their inclusion of structures peculiar to different countries, and for common problems encountered.

Since each cell is only with one value, a complete SAM has a deterministic structure. As mentioned previously, SAM is built on different data sets. Some of this data is obtained from various research. Other statistical sources (such as the national income accounts and pay balance data) are restricted by measurement faults. Although SAM has a deterministic structure, a consistent SAM process is mostly based on stochastic concepts and experts' ideas, and has a wide data scale which may contain sampling and/or measurement mistakes. The criticism brought about by economists relies on the argument that SAM, suggested as a deterministic matrix, is the estimations produced from the data which each cell has may have sampling and measuring faults (Thorbecke, 2001).

Data from various sources is supplied while SAM is being structured. In figure 1, we illustrate the accounts supplying data while structuring SAM.

#### Take in Figure 1 About Here

National income accounts in current period shows bilateral circular relationships connected to sharing, and demand relationships between production and income. Fund flow table (chart) shows all money and credit movements in economy with the changes in assets and debts of several foundations; balance of payment shows all kind of goods and service exchanges with affairs of debt and credit; national balance account shows the real money assets of economy and their distribution (Köse and Yeldan, 1996). And, input-output table shows the goods and service flow among industries. In input output table, columns show the needed inputs for the production of an industry and payments for value added components, but lines show by which industries and final demand components the produced products are used (http://www.die.gov.tr/veriKatologu.htm). If the input-output table does not contain the national accounts for the same year and the estimations differ for the same changables, the tendency is to rely on the current table until a more detailed input-output table is created. Based on content of research, information about a special population counting and /or analysis may be needed. When such information can not be reached, it sometimes can be obtained from household budget research, or some other multi-purpose household analysis.

SAM has the qualification of being the extension of input-output tables. If there is an input-output table, it should be arranged and updated for SAM. However input-output tabulation is time consuming. The following steps are needed if an input-output table is available (Keuning and Ruijter ,1988);

- Linking primary incomes and final demand (mapping factor incomes to household incomes, and mapping household incomes, after correction for transfers, to consumption expenditures).
- Disaggregating primary incomes (by factor type) and part of final demand, namely household consumption expenditures (by household group) and fixed capital formation (by sector in which the investment takes place and possibly by investing institutions). In addition, the destination of imports has to be sorted out.
- transfers(taxes, dividends, government subsidies and grants to private institutions, transfers between household groups and the like), current transactions with the ROW not shown by the balance of trade (factor services, interest payments, emigrant remittances) and, ideally, the flow of funds.

Flows of income among the units in an open economy consist of households, state, firms, savings and investment, suppliers, rest of the world (row), good/factor market. These flows take place in Figure 2. The flows in the figure match the cells in SAM. According to the circular flow scheme, household income comes from the factor market and transfer income from the state. While household members pay a part of their income as tax, they transfer their savings into a saving investment account. Similarly, the savings of firm and state are also transferred into a saving investment account. The relationship between rest of the world (ROW) and good market is established by means of import and export. State gets indirect tax revenues from suppliers and tariff revenues from import. There are transfers as sellings from good markets to suppliers, and intermediate input from suppliers to good market.

Suppliers transfer the value-added to the factor market. The spending flows taking place in National income accounts are inserted in the columns of SAM, and income flows in the rows.

### Take in Figure 2 About Here

#### 3. 1998 Turkey Social Accounting Matrix

In this section, Turkey's Social Account Matrix (SAM) for the year 1998 will be constructed. For this construction process, data from different sources was collected, and inconsistencies between these data have been adjusted. The data was obtained from the State Statistics Institute, Ministry of Economics, Foreign Trade and Treasury Undersecretariat, and the Central Bank (See Appendix-1).

The input-output table (97x97 matrix form), and name of the 97 sectors for the year 1998, SAM and input output table is presented in Appendix-2 in a 21x21 form, aggregated include 21 sectors. These sectors were collected relying on decompositions of intermediate consuming sectors of the State Statistics Institute. Sectors taking place in an aggregated input-output table are illustrated in Table 1.

#### Take Here Table 1 Here About

SAM which we have tried to build up for Turkey's economy by using the data of 1998 consists of activities, goods, labour, capital household, government, social security system (SSS), firms, private-public saving and ROW accounts. Items that take place in the income line of the account are shown as spending in each column. All of the

accounts are defined in Turkish Liras. Some of the accounts about public sector accounting and related accounts data needs are adjusted by the study of Telli(2004).

#### Take Here Table 2 Here About

#### Take Here Table 3 Here About

Items which take place in the activity account column which shows the production of country economy belonging to a certain year helps us observe the payment for realizing the production in that year, and how much of it was supplied to domestic markets and how much of it to out-markets.

Incomes of Activities Account	88.987.006.036
Domestic Sales	76.273.705.876
Exports	12.713.300.160
Expenditure of Activities Account	88.987.006.036
Intermediate Demands	40.160.988.379
Wages	13.297.030.743
Profits	32.802.339.539
Net Indirect Taxes	2.726.647.375

Another type of account, the goods account column standing for domestic markets consists of import taxes; and, the line of goods account represents the total demand amount consisting of intermediate goods demand, private and public consumption, and private and public investment. Domestic sales, import taxes and imports are the expenditure that takes place in the column.

Intermediate Demands	40.160.988.379
Private Consumption	35.986.031.367
Public Consumption	5.922.674.458
Private Investment	8.537.830.387
Public Investment	3.638.333.000
Expenditures of Goods Account	94.245.857.591
Domestic Sales	76.273.705.876
Import Taxes	3.398.927.473
Import	14.573.224.242

While wage income takes place in the line of labor account in SAM, in the column, there are labor incomes, and total premium payments constituting the total wage incomes.

Incomes of Labor Account	13.297.030.743
Wages	13.297.030.743
Expenditures of Labour Account	13.297.030.743
Labor Income	10.930.054.743
Premium Payments	2.366.976.000

Capital account line representing profit incomes consists of the total of public and private capital incomes that take place in the column of capital account while capital income represents profits in the row.

Incomes of Capital Account	32.802.339.539
Profits	32.802.339.539

Expenditures of Capital Account	32.802.339.539
Public Capital Income	
Capital Income	30.115.098.451

Incomes in household line, transfers done to household from public sector, profits delivered by the firms and the total of foreign exchange incomes transferred into household from ROW constitute household incomes; private consumption in the household column, direct taxes and total of private savings constitute household spending.

Incomes of Household Account	52.884.944.032
Labor Income	10.930.054.743
Public Transfers	878.759.658
Social Security System (SSS) Transfers	3.620.647.750
Distributed Profits	36.062.709.996
Foreign Remittances	1.392.771.885
Expenditure of Household Account	52.884.944.032
Private Consumption	35.986.031.367
Direct Taxes	4.605.594.151
Private Savings	12.293.318.514

Similarly, while net amount of direct taxes, tax of foundations and transfers from ROW constitute public incomes, public consumption, the addition of transfer into households, deficits of social insurance funds, firms and ROW with the total of public savings constitute the spending items of the public sector.

Incomes of Public Sector Account	14.716.523.330
Net Indirect Taxes	2.726.647.375
Import Taxes	3.398.927.473
Public Capital Incomes	2.687.241.088
Direct Taxes	4.605.594.151
Corporate Taxes	1.256.767.243
Expenditure of Public Sector Account	14.716.523.330
Public Consumption	5.922.674.458
Transfers to Household	878.759.658
Transfers to SSS Deficits	1.253.671.750
Transfers to Firms	6.937.128.064
Public Savings	974.337.137
Transfers to ROW	698.626.537

While premium payments constitute the incomes of social insurance foundations, and the transfers transferred into the deficits of social insurance foundations take place in the line of related account, the transfers from social insurance foundations to households take place in the column.

## Incomes of Social Security System

Accounts(SSS)	3.620.647.750
Premium Payments	2.366.976.000
Transfers to SSS deficits	1.253.671.750
Expenditure of SSS	3.620.647.750
Transfers to Household	3.620.647.750

Capital incomes and public sector transfers form the incomes of firms which they expend for distributed profits, corporate taxes, retained earnings and transfers to ROW. Transfers to ROW are the debt interest repayments.

Incomes of Firms Account	38.235.111.515
Capital Income	30.115.098.451
Transfers from Public Sector	6.937.128.064
Transfers from ROW	1.182.885.000
Expenditure of Firms Account	38.235.111.515
Distributed Profits	36.062.709.996
Corporate Taxes	1.256.767.243
Retained Earnings	287.638.739
Transfers to ROW	627.995.537

The totals of private savings in the income line of private savings account and retained earnings in the same line must match the private investment and private savings-investment gap in the column of the same account.

Incomes of Private Savings Account	12.580.957.253
Household Savings	12.293.318.514
Retained Earnings	287.638.739
Expenditure of Private Savings Account	12.580.957.253
Private Investment	8.537.830.387
Private- Savings Investment Gap	4.043.126.866

The totals of public savings in the income line of public savings account, private savings investment gap and external resources in the same line must match the public investment in the column of the same account.

Incomes of Public Savings Account	3.638.333.000
Public Savings	974.337.137
Private-Savings Investment Gap	4.043.126.866
Expenditure of Public Savings Account	3.638.333.000
Public Investment	3.638.333.000

The last account in SAM represents the transfers to and from ROW. The items in the column of the related account consist of export payments from ROW to goods account, worker foreign remittances to households, transfers to public and firms, and foreign savings. Imports, transfers including interest payments to ROW by public sector and firms constitute ROW incomes. Thus, foreign exchange spendings representing the total of lines and columns in the ROW account and foreign exchange incomes must match one another.

Incomes of ROW Account	15.899.846.316
Imports	14.573.224.242
Transfers from the Public Sector	698.626.537
Transfers from Firms	627.995.537
Expenditure of ROW Account	
Exports	12.713.300.160
Foreign Remittances	1.392.771.885
Transfers to Public Sector	41.346.000

External Resources 569.543.271

#### Conclusion

Social Accounting Matrix (SAM) is an accounting system in which the parts related to the whole of economy are joined together. It harmonizes difference between various accounting groups and provides us with information related to general view of the economy.

Public accounting, national income accounting, balance of payment accountings and input-output tables are all the data sources feeding SAM, which is constructed through harmonization of accounts. Input-Ouput tables play an important part in constructing SAM. However, constructing input-output tables on a yearly basis is rather time consuming and costly. The difficulties of creating such tables are experienced by almost all countries. Inconsistencies between national accounts can be adjusted by SAM.

SAM was constructed in this study for the Turkish economy in 1998, comprising activities, goods, labor, capital, private household, public sector, SSS, firms, private savings, public savings, ROW accounts, for its increasing popularity in forming a statistical basis for multi-sectoral and macro economic models. Especially, SAM is an important tool for developing CGE modeling. Inconsistencies between accounts are adjusted in SAM. In this study public balance accounts are mostly adjusted.

As for further research, we can suggest that SAM, which displayed all this information about the Turkish economy for the year 1998, can be constructed to present detailed information about properties of economy.

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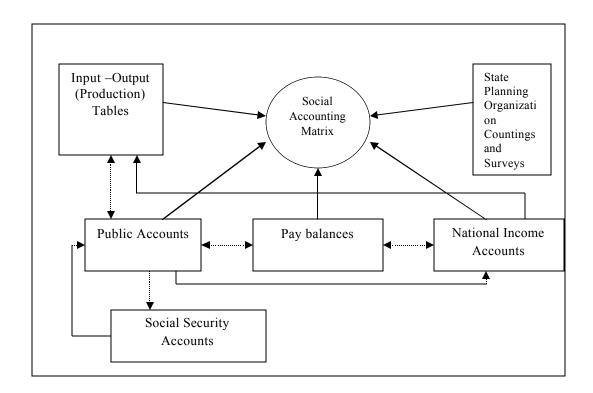
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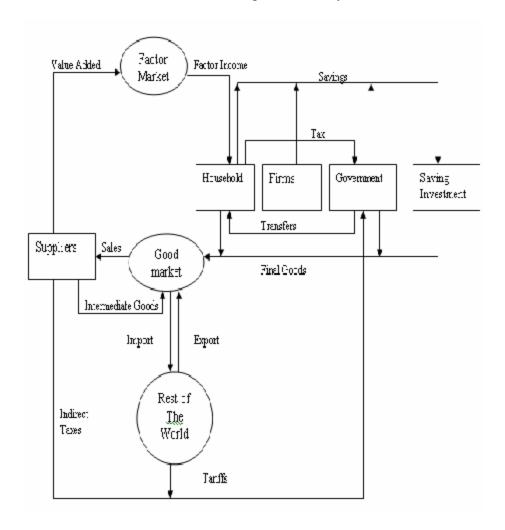
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FIGURE 1 – SAM Data Sources



Source: Telli, Çağatay , (2004) "Sosyal Hesaplar Matrisi Üretme Yöntemi ve Türkiye Uygulaması" Devlet Planlama Teşkilatı Yıllık Programlar ve Konjonktür Değerlendirme Genel Müdürlüğü, Planlama Uzmanlık Tezi, Ankara

FIGURE II. Income flow in an open economy.



Chung –Li, Jennifer (2002), "A Social Accounting Matrix (SAM) for Thailand" TMD Discussion Paper No: 95 Trade and Macro Economic Division International Food Policy Research Institute Washington, U.S.A

Table 1 : Sectoral Classification

Sectors	Classification	Abbreviations
Agriculture	(1-7)	AGRI
Mining	(8-12)	MINI
Manufacture and Food Products	(13-22)	FOOD
Beverage & Tobacco Industry	(23-25)	TOBA
Textile & Wearing Apparel	(26-30)	TEXT
Manufacture of Leather	(31-32)	LEAT
Wood & Furniture	(33-34 ve 67)	WOOD
Paper & Paper Products	(35-37)	PAPR
Petroleum Industry	(38)	PETR
Chemical Industry	(39-43)	СНЕМ
Rubber& Plastic Products	(44-45 and 68)	PBER
Non- Metal, Mineral Products	(46-49)	MRAL
Metal & Iron&Steel Industry	(50-52)	META
Fabricated Metal Products	(53-54)	FABM
Non- Electrical Machinery	(55-58)	MACH
Electrical Machinery	(59-61)	ELCM
Transport Equipment	(62-66)	TRNS
Electric, Gas & Water	(69-71)	ENGY
Construction	(72)	CONS
Transportation & Communication	(78-83)	TRCM
Services	(73-77 with 84-	SERV
	97)	

Table 2: Schematic Social Accounting Matrix for Turkish Economy (1998)

	Activities	Goods	Labor	Capital	Household	Public Sector	Social Security System	Firms	Private Savings	Public Saving	Rest Of The World	Total
Activities		Domestic Sales									Export	Total Sales
Goods	Intermediate Demands				Private Consumption	Public Consumption			Private Investment	Public Investment		Total Demand
Labor	Wages					-						Wage Income
Capital	Profits											Profit Income
Household			Labor Incomes			Transfers	Transfers	Distributed Profits			Foreign Remittances	Private Income
Public Sector	Net Indirect Taxes	Import Taxes		Public Capital Income	Direct Taxes			Corparate Taxes			Transfers	Public Income
Social Security System			Premium Payments			Transfers to SSS Deficits						SSS Income
Firms				Capital Income		Transfers					Transfers	Firms Income
Private Savings					Private Savings			Retained Earnings				Private Savings
Public Savings						Public Savings			Private- Savings Investment Gap		External Resources	Public Savings
Rest of The World		Import				Transfers		Transfers				Foreign Exchange Income
Total	Total Payments	Total Absorptions	Wages	Profits	Private Consumption	Public Expenditure	SSS Expenditure	Firms Expenditure	Private Investment Expenditure	Public Investment Expenditure	Foreign Exchange Expenditure	

Table 3: Turkish Social Accounting Matrix For the Year of 1998(Turkish Lira)

	Activities	Goods	Labor	Capital	Household	Public Sector	Social Security System	Firms	Private Savings	Public Savings	Rest Of The World	Total
Activities		76.273.705.876									12.713.300.160	88.987.006.036
Goods	40.160.988.379				35.986.031.367	5.922.674.458			8.537.830.387	3.638.333.000		94.245.857.591
Labor	13.297.030.743											13.297.030.743
Capital	32.802.339.539											32.802.339.539
Household			10.930.054.743			878.759.658	3.620.647.750	36.062.709.996			1.392.771.885	52.884.944.032
Public Sector	2.726.647.375	3.398.927.473		2.687.241.088	4.605.594.151			1.256.767.243			41.346.000	14.716.523.330
Social Security System			2.366.976.000			1.253.671.750						3.620.647.750
Firms				30.115.098.451		6.937.128.064					1.182.885.000	38.235.111.515
Private Savings					12.293.318.514			287.638.739				12.580.957.253
Public Savings						-974.337.137			4.043.126.866		569.543.271	3.638.333.000
Rest of The World		14.573.224.242				698.626.537		627.995.537				15.899.846.316
Total	88.987.006.036	94.245.857.591	13.297.030.743	32.802.339.539	52.884.944.032	14.716.523.330	3.620.647.750	38.235.111.515	12.580.957.253	3.638.333.000	15.899.846.316	

## APPENDIX 1:

Table 4 – Public Balance (Total)

	1998 (Current
	Prices Billion TL)
1.TAXES	10.902.342
A.DIRECT	4.774.173
B.INDIRECT	6.128.169
2.NON-TAX NORMAL INCOME	676.171
3.FACTOR INCOME	2.687.241
4.SOCIAL FUNDS	-1.253.672
5.(CURRENT TRANSFERS)	-8.072.974
I.PUBLIC DISP.INCOME	4.939.108
II.CURRENT EXPENDITURE	-5.922.692
III.PUBLIC SAVINGS	-983.584
IV.INVESTMENT	-3.638.333
A.FIXED INVESTMENT	-3.359.435
B.STOCK CHANGES	-278.898
V.SAVINGS-INVESTMENT DIFF.	-4.621.916
VI.CAPITAL TRANSFERS	197.193
1.TAXES ON WEALTH	178.313
2.(OTHER TRANSFERS)	213.261
3.(INCREASE IN FIXED ASSETS)	-194.381
VII.CASH-BANK/BORROWING	4.424.721
1.CHANGE IN CASH-BANK	-718.639
2.FOREIGN BORROWING(NET)	-491.577
-REPAYMENTS	-2.224.238
-RECEIPTS	1.732.661
3.DOM.BORROW./LEND.(NET)	6.227.119
4.STOCK CHANGES FUND	-592.182
PSBR/GNP	9,4
BORROWING REQUIREMENT	5.016.903

Resource: State Planning Organization, www.dpt.gov.tr

Table 5: Balance of Payments (Million \$)

A.CURRENT ACCOUNTS	
1.MERCHANDISE EXPORTS (Fob)	36.600
Exports Fob in Trade Returns	36.000
Transit Trade	600
2.MERCHANDISE IMPORTS (Fob)	-49.700
Imports Cif in Trade Returns	-50.000
Imports Of Nonmonetary Gold	-2.200
Transit Trade	-500
Freight And Insurance on Imports	3.000
Trade Balance	-13.100
OTHER GOODS, SERVICES AND INCOME (Credit)	21.900
Travel	8.500
Interest	2.000
Other	11.400
OTHER GOODS, SERVICES AND INCOME (Debit)	-15.450
Travel	-2.250
Interest	-5.100
Other	-8.100
TOTAL GOODS, SERVICES AND INCOME	-6.650
PRIVATE UNREQUITED TRANSFERS (Credit)	3.800
Workers' Remittances	3.500
Other	300
PRIVATE UNREQUITED TRANSFERS (Debit)	0
OFFICIAL UNREQUITED TRANSFERS	350
Workers' Remittances	50
Other	300
CURRENT ACCOUNT BALANCE	-2.500
B.CAPITAL, EXCLUIDING RESERVES	7.500
DIRECT INVESTMENT (Net)	1.200
PORTFOLIO INVESTMENT (Net)	3.200
OTHER LONG-TERM CAPITAL	1.800
Drawings	8.300
Dresdner (Net)	1.000
Repayment	-7.500
SHORT-TERM CAPITAL	1.300

Assets	-1.550
Credits Extended	-100
Dmb's Fx. Holdings And Other Assets	-1.450
Liabilities	2.850
Credits Received	2.650
Deposits	200
C.NET ERRORS AND OMISSIONS	0
D.EXCEPTIONAL FINANCING	0
E.COUNTERPART ITEMS	0
OVERALL BALANCE	5.000
D.TOTAL CHANGE IN RESERVES	-5.000
IMF	0
OFFICIAL RESERVES	-5.000
DEBT SERVICE RATIO	20,2
Average Exchange rate = E(TL/\$)	260,040

Resource: State Planning Organization, www.dpt.gov.tr

## APPENDIX 2:

# Table 6: Sectors in Input Output Table of Turkey (1998)

Table	0. Sectors in input Output Table of Turkey (1998)
1	Growing of cereals and other crops n.e.c
2	Growing of vegetables, horticultural specialties and nursery products
3	Growing of fruits, nuts, beverages and spice crops
4	Faming of animals
5	Agricultural and animal husbandry service activities, except veterinary activities
6	Forestry, logging and related service activities
7	Fishing
8	Mining of coal and lignite
9	Extraction of crude petroleum and natural gas
10	Mining of metal ores
11	Quarrying of stolen, sand and clay
12	Mining and quarrying n.e.c
13	Production, processing and preserving of meat and meat products
14	Production and preserving of fish and fish products
15	Production and preserving of fruit and vegetables
16	Manufacture of vegetables and animal oils and fats
17	Manufacture of dairy products
18	Manufacture of grain mill products, starches and starch products
19	Manufacture of prepared animal feeds
20	Manufacture of bakery products
21	Manufacture of sugar
22	Manufacture of cocoa, chocolate, sugar confertionary, and other food products n.e.c
23	Manufacture of alcoholic beverages
24	Manufacture of soft drinks; production of mineral waters
25	Manufacture of tobacco products
26	Manufacture of textiles
27	Manufacture of other textiles
28	Manufacture of knitted and crocheted fabrics and articles
29	Manufacture of wearing apparel, except fur apparel
30	Dressing and dyeing of fur, manufacture of articles of fur
31	Tanning and dressing of leather, manufac. of luggage, handbags, saddlery and harness
32	Manufacture of footwear
33	Sawmilling and planing of wood
34	Manufacture of wood and of products of wood and cork
35	Manufacture of paper and paper products
36	Publishing
37	Printing and service activities related to printing
38	Manufacture of coke, refined petroleum products
39	Manufacture of basic chemicals, plastics in primary forms and os synthetics rubber
40	Manufacture of fertilizers and nitrogen compounds
41	Manufacture of pesticides, other agro-chemical products
42	Manufacture of pharmaceuticals, medicinal chemicals and botanical products
	Manufacture of cleaning materials, cosmetics and other chemicals and man-made
43	fibres
44	Manufacture of rubber products
45	Manufacture of plastic products
46	Manufacture of glass and glass products
47	Manufacture of ceramic products
48	Manufacture of cement, lime and plaster related articles these items

49	Cutting and finishing of stone and man. of other non-metallic mineral pruducts n.e.c
50	Manufacture of basic iron and steel
51	Manufacture of basic precious and non-ferrous metals
52	Casting of metals
53	Manufacture of fabricated metal products, tanks, reservoirs and steam generators
54	Manufacture of other fabricated metal products; metal working service activities
55	Manufacture of general purpose machinery
56	Manufacture of special purpose machinery
57	Manufacture of domestic appliances n.e.c
58	Manufacture of office, accounting and computing machinery
59	Manufacture of electrical machinery and apparatus n.e.c
60	Manufacture of radio, television and communication equipment and apparatus
61	Manufacture of medical, precision and optical instruments, watches and clocks
62	Manufacture of motor vehicles, trailers and semi-trailers
63	Building and repairing of ships, pleasure and sporting boats
64	Manufacture of railway and tramway locomotives and rolling stocks
65	Manufacture of aircraft and spacecraft
66	Manufacture of transport equipment n.e.c
67	Manufacture of furniture
68	Manufacture of n.e.c
69	Production, collection and distribution of gaseous fuels through mains
70	Manufacture of gas, distribution of gaseous fuels through mains
71	Collection, purification and distribution water
72	Construction
73	Sales, maintenance and repair of motor vehicles, motorcycles; retail sale of fuel
74	Wholesale, trade and commission trade, except of motor vehicles and motorcycles
	Retail trade and repair of personnel and household goods, exc. Motor vehicles and
75	motorcycles
76	Hotels; camping sites and other provision of short-stay accommodation
77	Restaurants, bars and canteens
78	Transport via railways
79	Land transport; transport via pipelines
80	Water transport
81	Air transport
82	Supporting and auxiliary transport activities; activities of travel agencies
83	Post and telecommunications
84	Financial intermedediation, except insurance and pension funding  Insurance and pension funding, except compulsory social security
85	
86	Real estate activities  Renting of machinery and equip. Without operator and of personal and household
87	goods
88	Computer and related activities
89	Research and development
90	Other business activities
91	Education
92	Health and Social Work
93	Activities of membership organizations n.e.c
94	Recreational, cultural and sporting activities
95	Other service activities
96	Public administration and defense; compulsory social security
97	Ownership of dwelling
	1 0

Source: State Statistical Institute

Table 7: 1998 Social Accounting Matrix

1998 SAM		Ago Gleet	Kionega-D	Tood Horanug	Historica And Totaco 53,53	Textion and wearing, Apparel 26	573	who had factors (35- Pectacs (35- Permitti)	Poperad Fig. Deducações 39,	Pendeun. Penturia(20)
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Titoline and Westing Append 97 20 onther 1992	-9 -6	3.7								
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and 67] Prigner (n. 1 Prigner Primbush) (3543°)	8									
Petrolecus Products (98)	3		5				-			
Comme do 6:9:40	10									
Rubber and Flancic (*475 and 0%)		111								
Same Marial Memoral Fernisa lijeka 1995	11	,								
Metals Lon and Steel (30-32)	12									
Frience of Month (NASA)	14									
Non-Electrical Mechanism SS (87)	16		-							
Hertaic Machinery (%-61)	16									
Tuniquethaum e (fiet)	17									
Electricity Cas Water/97th	10									
Construction (72)	19									
Theorem and Common hong's	100000									
90° Serano (147) ani 847)	20						-			
Appeal to 1-2	20	The Control of the Co	54,961,405	1015,750,480	88,481.531	08,373,653	53/27	79,740,790	37 075,253	1,577
Offining 8-12	ZJ	101,301	345,001	0,330,773	1337	2/3/203	162,099	77.010	12,2	113,210,02
Food Professing 12-22	24		6,269,463	532,769; 91	83,795 800	6,824,664	26,412,497	3.25	1 908,003	3 387,301
reserve and Tolland 133.20	26	216,570	10,869	446,103	17,205,734	1,703	37	47	045,125	4,359
Testion and Westing Appendix		and the second	2002000	14 010 000 1100	24 628250	rsouvaetres	199702000	20012000000	man committee	recounts
2)	26		77,437,204	05,077; 90	1,47 (30)	032,014,915	30,907,740	10,174,000	10 000,112	10 902,000
To Prof 91-92 Wood and Paper Products (33-34	27	501,785	4,541,862	8/50575	170	FF,374,293	(6,89)(2)	473,330	537,364	0.180,597
m367	20	3007, 00	4,019,900	0,200,014	107 950	1,045,020	04,409	270,000,600	2 600,101	090,700
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Find en som Francis (y 4 / 5 -m b) () Som Moral Medical Fernica bide-	32	75,000,314	7,940,004	14,009,200	4,91 2P	· C,21+,014	4,001,075	5,200.20	27 632,779	11, 990,240
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10 of \$1-otri of 20s distrary(\$2.95)	324		51,67944	18,419,535	1,584 / И	17,539,71	515/61	47.413.8	thad, to	7.305300
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Construction 72 Transport and Communication 79	9)	455, 12	3	2,44),341	. 4	265	5,425	0 +03	1,302	2,301
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0000	41		152,225,577	371,547,861	80,797.12	5 4,452; 85		20,7301 (	<b>₹244,740</b>	
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Construction (72)	19			-					-	
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Agriculture (4)	22	27 873,730	15,536,182	2777,607	253,416	538,521	6,8538	407.435	7,583	08,140,107
Mining 8-12	23	3, 3,3545	445,013	51 544,163	#. 259j.Z.	500210	344 627	3.3024	1955-7	305,900,121
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1998 SAM	Canetructio ACT21	-	2000	Services(3). 77 and 64 97)	Aggleulture 1.3	Milating K-12	Fresh Presching	Heverage and Valories	Traditional Wearing Apparel 26-30	Leather 31.
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Food Processing 13/22	3					0.51440.0000	1,938,008,760			
Reversion soil of soil 1805	4							903,318,553		
Testica the Wearing Appart 34-			1							
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Wood and Paper Froducts (22-3-		-	-	-		_				Majorokei.
ಬ ರು	- 1									
Pages and Pages Products (30, 37)		ľ								
Pelori - en Print act (%)		$\perp$								
Others (9-45)	18	_								
Richter and Plastic (44.45 or 4 kV)	311									
Non Mets. Mineral Fundwet(48-48)	12									
Matachin, and Sout (50 55)	13	- Č		- 3						
Fathwaled Metals (25.59)	11									
Him sile and Markmany (2, 5%)	15	$\rightarrow$								
Floritie Machinery (1511)	15									
Timospor: Prjugment (42-64) Electricity Ges Weten(80-71)	18	+		-						
Construction (72)	19	-	-	-		_			-	
Transport and Communication(78-		-		-						
85) Services(73 77 ap.357 97)	20 21	6		2						
Aprilate 17	29 87/		97,922,081	395,000,050						
Mining 2-12	23 1 (77)	_	1,306,350	0.570,013						
FoodProcesting 13-22	24		22,730.022	745 007 670						
Beverage and Tobacca 23-25	25	d	10,273 815	78,508,309						
Testica the Wearing Appart 24-										
30		_	93,5151	75, 66,055						
Leather 31-22	27 5	22.1	1717 575	5,084,241						
Wood and Payer Products (30-34) यक्ष की	<b>29</b> U971		2,970 174	91,471 019						
Page, and Paper Products (35,37)	· · · · · · · · · · · · · · · · · · ·	44	1,510 174	31,4 T C13						
a de la coma aprocada de la coma por la coma de la coma	20 52	Bre :	10,708 035	315,980,633						
Petrois an Products (%)	20 2 891		(2,772 099	189,058 644						
Claims 1- (%-4%	M 9 433	297	0,400,937	160,710,937						
Michites this Pfranc (44.4) and fix)										
W- W- W - W	22 7.016	4C =	80,640,372	78, 10,635						
Non Metri Minted Feedvet/46-			*****							
45) Metals from and Steel (20-52)	77 90,900 34 92,000		4(00), 403 0(00), 940	40,370,427			-		-	
Fabricanes Metals (33.99)	22 055		29,003/40	17,180,409						
Hote Because Machinery (COA)	<b>36</b> € 239	5.50	11/488 012	280,324 839						
Electric Maddinecy(59 (1)	37 2 053		\$1,87E 639	91,736 217						
Thin open, Experiment (42-46)	12 - 34	290 2	37,688,657	81,756 123					Ť	
FledHerg (\$15 Notherly)	1637		-0,708 153	454,086,075						
Constructor (??)	<b>a</b> 100	,316	367 947	185,270,405						
Transport and Communication,73-	41000		0.000.00	CACCOMICS						
83) Sectices (73-77 and 34-97)	#1 10,009 #2 19,410		90,401,621	1 410/101 921						
Labor	THE RESERVE AND ADDRESS OF THE PARTY OF THE			7 101,335 C/4						
Capital				14 859,148 023						
H mont dis	45		1000							
Greater of	<b>4</b> 3,860 911	me e	43,009,620	-193,750,604	207,087,090	10/07/58	34: 955,481	54/28/08	243,456,443	28,773,400
838	1	7	2000	0.77	7 7	V- 17				~ ~
Fierd	47		1	U U					l I	
Capital Account	*							100000000000000000000000000000000000000		
DOG! Total Especialities	# C MAIL CO.		An man a an	<b>38,464,974,693</b>	540 609/17		45" #90,832			1303105,360
tern resonants	30 3,000,977	esu je,4	90.343,948	36,494,974,993	1.091,400,011	2,938,844,524	9,122,191,217	1.010,207.047	4,047,721.011	40,700.010

JANR ZHWI		Weed and Paper Preducts (35 24 and 67)	Paper and Paper Predects (35	Permina Forduna(SH)	Che <b>s les</b> la (30 45)	Plante (44. 45 and 0K)	You Victal Mineral Product/16 49)	Metals Irea and Strel (50 #2)	Februared Metals (23,	Non Electrical Machinery (5 5.58)
ACCROSCOCIONA	-	20	29	30	31	72	.00	34	36	×
Agriculture 1-7	1								- 2	
Kiining 3-12 Prod Processing 13-23	3		1		10					
Freeze and Tohocor 22-25	4								-	
retiled and Werring Apparel As-	-			_						-
3J	5									
Deckhor 31 32 Whose and Paper Products (33 3/ and 57) Paper and Paper Products (5-37)	8									
Donatore F. dona 20	D		1,090,040 020	1 22 22 1 1 1 2						
Provident Freducts(©) Chemistic (©-42)	10			1,260,007.178	1.352,414,456				-	-
h d her and their (44.4% mit())	2011				- 202,514,600		-			
Non Metal Maneral Product(45	-11					1 483,173,435				
12)	12						(%) (Alterioral			
Meters from and Steel (50-52)	13		1		1			2 092,495,107	4 101 1000	
Facilitated Metals (53-54)  For Plannian Marking (53-59)	15								1,032,072,025	. 262 01- 200
Figure Montrier Machinery (33-52) Plantic Montrier (19-61)	15				,					1.788 914,000
Francis of Fertige and (42-46)	17						_	-		
Me unit y Chic Walen(M-71)	18		1		_				-	
Contraction (72)	19				_		1		-	
consequent and Communication()S									- 0	
807	20									
Services(70-77 and 34-97)	21									
Agicultus 1.7	22		î î							
Miring 2-12	23				7		0			7
Prod Processing 13-23	24									
Historiae and Tohacco 29-45	25								T.	
								_		
Testiles and Whiting Approal 26-	100									
30	35					ļ				
Laft -37-47	97							-		_
Wood and Paper Products (33.54) and 60	28									
Laper and Daper Products (08-37)	20									
Tapes and Capacitor accessions on	29									
Febroloum Products(32)	30					1				
Ckreenila (%-43)	31							-		Ø.
Publisher and Plast: (44.45 and 48)						*		-		
	32									
Non Metal Motoral Fredom//lo-								1		
·19)	93									
Metals from and Steel (20-52)	94					Į.				
Februaries Metals (50-54)	- 35						,			53
Non Electrical Machinery (55-18)	36									
Eiseter Machinery 9941)	31									
Thang in . Kipaj ment (42.77)	38					<u> </u>				
Eacht. By Gat Water (6-71)	39									
Construction (73)	10									
Transport and Communication(73)										
83) September 173-77 and \$4-99)	41					2				2
Lither	43					10				
Copital	44									
Household	15					Υ.				
Ot ven ment	18		53,204 (01	68,398 989	121,331,901	109,101,234	61,703 163	188 463,375	73,331,835	94 036 715
222		2,233, 20	30,00,131	copiec eco	121,00 ,00	1001	01,100100	CC (CO)OF O	2,231,000	01020 10
F_ms	46									
Capital Account	40					X .				
POW	40	85,407,665	254 542 757	200,862,603	1 812,334,668	412,002,574	100,000,003	1,420,425,700	770,483; 30	0,2 6 165 783
Total Esperaditure			1,198,107,406	1,629,164,720	4,275,111,025	2,004,575,743	2/105,573,042	4,460,385,833	1,669,536,444	4,034,406,028

1990 SHM		Lieda		Trensper	Taylibane:	=			Grokushro (22)	Transport	Communical Confession	65		nig.	Cip-tel	Douehold
nga darek?	1		97			•	,	19			31	1,,	12	40	.11	14
Mining 8-12	2	_				+		$\dashv$	-	-		1				1
Fund Fouget sing 18 23	3															
Bracings and Tehnologists	4			-		+		┪		-		_				
Textiles and Westing Apparel 36-						+		┪				7		-		1
SIL	5			l												
Leather 21-22	6					Т		╗						T T		1
Wood and Pager Products (33.3.1						$\top$		╗								
-nt 97)	7															
Daper and Daper Products (25-27)												Ţ				
Petroleum Products(30)	9					Т		$\neg$								
Chemicals (25-42)	18					Т		П				31	1	i i		i i
Hid har smit Moebic (7475 smit 94)	11													0		
Mon Metal Mineral Flochety 6 20)	12					Γ						Ţ				
	13													Ų.		
	14													1		
Non-Block fol Machinery, 39-35,	15					Γ										
	16	1,34 .	33. 999		UCC ACA									Ti Ti		
	17			1,8	81 391 93			_		_						
	18					2.	JEBU/144	IJ						1		
	19					1			9,805,MC 28							
Trining of trink Chamilia north re(7)				l												
	20							-		0 972	-50 CH					
	21			_		+		4		_		- 2	1,575,586 me			COLUMN DESIGNATION OF
	22			_		+		4		<u> </u>		_				5,506,466,100
	27					1		-								0.36.30
	24 25	_	_			┿		$\dashv$		$\vdash$		-				3,968,091,090 744,407,680
3:7(30ge Cae 1000:70 15-15	0			ı		1		1		ı			'			744,427,000
Testiles and Westing Apparel 26			_	_		1		_				-				
	20			l				-								833,833,531
	27		_	-		+		┪		_		4				1=3,530; C)
We at ent Sene An last (33.34	-1			1		1		- 1							1	1-5,175, 65
	a			l				-								445,490,065
Faper and Paper Products (25.27)				-		+		┪		_		Ť		1		
	×			1				-								407,537,181
	×			-		$\top$		┪								443,229,447
Clear alc(% 4-)	21															1,132,671,764
Problem and Plants (44.45 and 65)						Т		П	,							
	R			_		_		_								1293;80,403
Non Michi, Mineral Hardright-				l		1		- 1							1	
	77					-		_								133,43743
	24					1		4	)			4				<u> </u>
	Ж			1		1										297,702,070
	A		_	$\vdash$		+		4				Ų.				1,09,592,713
	37		_	$\vdash$		+		4								635,424; 45
	ā			-		1		-								1,277,237/01
	#		-	$\vdash$		+		$\dashv$		-		+		-		438/60/042
Теат - реперанция (72)	-			1		1										,
	•1			1												4,610,484,118
	2											Ť				12,595,791,465
	O															- apart office
	\$4									7						
	46					1								10,930,054,743	1	
	*	C7,	200,007	- 31	02,707,10	2	62 740 0	×	)00 (20 200	190	£17,£93	2	004,470 193		C7,341,000	4,000,0947,07
233					0		-		11 - 11		-		41 74	2 398 87 3 (, 3)	~ ~ ~	10 1 2
	67									1		J.			18,708,481	
	-														,	12290210211
					engelijs:		27 330 (						1,108,108,880			
	94	2.961	925.DS1	1.0.1	16,900,64	2 2.	142,024,6	44	5,654,673,700	7 411	174 691	2 1	9 366 240 286	11.297.000,740 12,6	2 3 14 5 34 E	52 004 943 407

1990 SAM		Government	552	Į	Capital Accou	KOW	Loted Income	
		-Wi	ű –	4/	-181	-RJ	50	Control
Agnetiture 1-7	- 1		Ĺ			645,57C,082	546 570 052	U
Mining 3-12	2					70,702,520	70 702 520	0
FoodPricessing 13-22	٠,					727,174,715	- CONTRACTOR STANFORD	n
Feverage at d Trifusion 23-25	_4	1				117,977,691	18 977 6=1	, u
Textiles and Wearing Apparel 26-	17.00					Contractors CONSTRUCTION	757200000000000	62
30 Leathar 31 30	5					2,235,827,020	2 299 827 020	0
Wood and Pager Products (33.34	_	-				135,866,189	1.39.856 1.59	0
under	7					107,090,509	4.07,050,509	n
Pager and Paper Products (1997)			91	-		The second second	54 937 703	0
Petroleum Products(38)	,		Î	0		54,937,703 198,644,317	: 95 644 317	0
Chemicale (39 43)	10					291,731/29	291 731 429	0
Rubber and Plastic (44.45 and 68)	- 1		*			201,701,720	201121120	
8 9.	11					365,482,130	356 452 150	U
Non Metal Mineral Propuet/45-						107.01.00		
Metals from and Steel (NI-SZ)	12				-	107,404,009		n
	13					417,091,900	410 071 976 115 276 471	n
Fair in alled Metals (67-54) Num Electrical Machinery (55-59)	14	1			1	115,285,491		n 0
Electric Machinery (19-61)	16				1	234,441,897 235,804,288	294 441 857 395 604 258	
Ttransport Equipment (62-66)	17					293,791,652	293 78/ 682	0
Electricity Sec Water 67 71)	18		*			3,690,267		0
Construction (72)	19		*	-		EU: 234,519	606 254 619	U
Transport and Communication/78			-		<del>                                     </del>	00-201010	000 22-010	
82	20					2,504,491,200	2 904 451 200	. 0
Services(CST7 and X497)	21					2,002,400,170		ñ
Agriculture 1-7	22	242 400 000 000 0000 000			-2,571 pan 425		-2 790 047 010	n
Mining S-12	23				765,285,91C		770 672 180	0
Food Prices sing 13-22	24		112		-293,965,113	(4)	-255 052 512	0
Testiles and Weering Apparel 26-	26	40,500,227			1 746 042 050		1,754,009,001	
sether 8-12	27	5,900,022			00,000,770		00,020,145	15.7%
Would and Paper Products (33-34		N 19 0					S 100 30	
and 67)	28	742 536			177 338 459		178,111,035	
Faper and Paper Products (35-37)	29	30 452 642			86 633 727		56,171,065	- 12
Fetroleum Propucto(38)	30	182 651 659			1 366 317 851		1,183,686,202	100
Gnomicals (37-43)	31				784 032 720		816,966,600	
Hubboar and Plastic (44-40 and 68)	32	20,010,050			24 1 29 715		50,740,400	
Nor Metal Vineral Product(46-								
49)	33				537 514 452		541,918,898	
Metals from and 3 set (10-12)	34				812 801 559		814,747,993	1 1 1
Fabricated Metalo (53-54)	36	01/201901/01			326 629 738		329,169,76-1	- 15
Non Electrical Machinery (55.53)  Blootrip Machinery (59-61)	36	13 952 292			2 177 625 035		2,181,577,327	
Transport Equipment (62-66)	3f 38	25 730 311 16 632 940			1 204 506 107 1 406 270 312		1,250,334,419	-
destinate Gas (Veter(99-71)	38				40 601 019		140,292,750	
Construction (%)	40	100 100			5 405 071 442		5,401,204,015	10.5
Transport and Communication 7%.								
23)	41	175 652 558			-1 399 · 32 827		-1,163,510,239	12
Services(73-77 and 34-97)	42	5 000 712 813			2 574 794 584		7,575,507,367	
Labor	413						0	(6)
Capital	44						Ü	12
Housthold	46	878 750 658	±830,847,780	36 052,710,006		1 302 771 840	41,054,880,244	
Gryesnament	46			1 256,757,243		41 346 044	1,208,113,287	1
rim .		1,753,671,750					1,200,074,750	
enn's	47	0.907 (20.014				1 / 02 075 070	THE RESERVE OF THE PARTY OF THE	- 15
Capital Account	43			257,638,739		569 543 27	-117,155,127	
3.0W	49			627,985,537		ATTENDED TO SHEET AND ADDRESS OF THE PARTY O	1,326,622,074	- 12
Total Espenditure	60	14.716.623.330	3,620,6-17,760	38,236,111,616	12,176,153,387	15,339,316,316	84,6/18,292,297	0

Table 8: 1998 Aggregated Input Output Table

	AGRE	MINE	LOOD.	TODA	TEKT	LEAT	WOOD	PAPR
AGRI	2495916510	5196170529	10/2/30180	\$231301	9567695003	26020711905	73242158357	3707225074
MINE	16100: 41%°	635861 2166	5536833,672	18370 01865	278857 8730	492308 780	77345 51588	495003 6075
FOOD	31 8472698.4	6290482,799	932760 CC 8	837993D .56	5824554.052	26-12407.33	\$200 614018	1005022,601
TODA	1213570 330	10000 90704	4407 02,7143	1 - 201 - 341.	4700, 229502	25730,4701	43.5002/250	1,340,124,067
TEXT	97603097-39	57427284	39677155.3	1471662,946	1300014913	26937743.25	58174080.05	18033119.1
LEAT	901799 AH 8	454,881,648	8130874.043	102.0531941	5587-309-5	96832070.06	473781,3786	537253,6205
VMOOD	200700400	4010500250	0290010753	10/9.2.88.2	1,340,5233,73	11,440,0070	17,000,000,000	210001000
PAPR.	80/13/0391	12375753383	1786076 02	895/819008	75°U/55£65	5010561.217	45/6/69.bb/	35"E8/"7E.3
PEIR	1763555037	501356300 (	22047375-41	781097 5097	1984773.592	658075 8400	1400783,568	18147890 41
CHEM	201000100.9	C000719 .02	000 1100 95	4107107.926	00019070 00	1000494.70	12 3077 02	99004457 10
POOR	78СЭХ.10.И	173403331.1	4700820035	491124124 -	10217010 80	4031075302	6230363206	37062774.3
MHENU	1699460 510	11780198.88	6837503.907	12515733.68	319979 7035	170405,830	741649 7149	37:059 5951
META	4044 00544	1170079846	13 053 68	834503,706	1473535 7712	7614 678334	75474200.50	20675036.24
FADM	10034942.00	29394-703.2	1417010024	11-07:05,025	23325542.17	1000704.000	2070251.445	1,00,0431,08
MACH	54712146.9b	51352520.5	1341823781	1959/03858	1965604173	61839. UJAE	83248833288	1,85001,673
H CM	10557 1047	74300840.64	-337.57.5783	50746 0096-	1005303,495	48006,8000	145788 0785	430533 7591
TTOMS	64909000.27	22040-72.12	600307,0477	1697 239750	1000257 000	100,700727	94000 20002	1209 102007
DNGY	2.015200.12	133009591 -	241052771	1030033003	1700,1197,00	241/24,300	79.KC231.c5	133/38/3
CONS	499119 4521	n	2442541 473	0.700731155	284 9252671	5127 618573	5170 517458	1585 (0851)
TRICM	20900-237.6	157970054 7	92987338 CD	1190861 .03	717295 8 35	7027800,483	270779881-	13540288C.1
SDW	167740395	200706224.5	133045302.2	10049-0102	212,2477.3	2193300575	413,40/205	22/2001/22
I of all inputs	4869036335	1333899016	1979134665	209731961	1986231169	208349413.1	637468972 7	1047231879
Net taxes	4664746627	-1356558465	2 66640610	432 02006 7	1005055523	1423 60200	225773902.7	-3440710400
Taxes-Suliverdiums	-0000000010.7	-1000000409	2300904947	7490220207	1070000020	1420 CC29.5	02077)000 7	-000770077.8
Subventions	121110252	U	120,324523	317129051	J	· · ·	U	41194183
Wage Payments	7552351946	133095576.8	37:547961.3	89207120.61	514482188.2	35115450.76	7039011: 64	8824647
Consumption of Fixed Capital +Operating								
Surplus	2132583758	1176071779	939803320 /	291373339 I	2420221978	59531113.26	1306811881	354773483.3
Total Output	6797348776	1556648947	5456184465	1022505940	5356038645	446815058.4	1204302771	11452R3731

	PETIR	CHEM	PBER	MRAL	META	FARM	MACH	ELCM
AGRI	11673 87183	17838183 37	16233185.03	2707307.062	059413 4699	533800 3545	8835388-47	497469.0334
MIRE	11232 0572	309660-0.11	4423 5 5525	5:5-4360.43	00009322.88	503246 0134	544625 6583	300028.5320
FOOR	358730 .570	6776 811.70	210530,0007	365177 0531	270138 8678	064125.54	3769176 073	12 1 5608 3
TOBA	4000.009714	950907 0507	00000.90970	120710,0409	101 4041 92	242,3400097	60025,49005	5,700012900
ILXI	1053200000	44,000,001,00	1037/00033	015-720001	305:0033727	52290013.75	20/29/9009	3/02/5/32/5
ELAT	24 CDXXX CD/	0200M2 000M	2290280,021	420092/423	23/16/333344	1510002.880	0220094 010	2/80/32
Y/00B	368700.4803	/283687,008	4857738 / 73	19671387 01	17870703.78	23385162.84	24870980 72	214763876
PAPE	51877448.03	50160005 87	\$1887450.78	34985276,43	11060339.69	33344823.30	19819088.01	3039673,090
PFTR:	1855488610	100 77-013	5400305,455	607-0355.53	9677-257 77	6576603,586	5417453 (40)	2205661-550
CHEM	864300 4 12	11108012808	134146453.7	55634700.10	30705340.75	35500060.30	20103360.65	1064033263
POCR	11990347 90	90470270.90	104700201.9	16047000	00419707.49	13020125.0	29900707 CB	10292190.00
MIRAL	02:22/4/210	533000054	CC/3/9/600	00.71900010	371.999.40	2190870077	0559330411	1,000,000,000
MLIA	440130301.2	10/06520.20	173210181.1	1801019710	2000/0000	0940705177	20017102	30M/CC0300
FABM	56137996 73	5/161799.3	11193566.04	85163316.32	120013080 5	113276935.7	46980318.91	20016715.21
MACH	7872472 075	23510413-55	8100851058	44483334.81	13077030 68	77396751 64	2107898709	23859913.50
FI CM	210025 211	2127613 106	085350,6105	406-53 772	3044200 665	10067733.80	46161 74 75	2183762533
TRHS	1401,006424	38520 5074	49700.38241	30713 00895	9665544,007	827 181 420	775-078 634	5304663714
INGY	9900007 7 00	92007972.4	1000 270.00	1159004044	2040002-2-0	22009219.3	1404241079	570: 299,000
CORS	2003/300902	62900 (930)	U1.209U1995	01 (2902)(2)	Z 2004354	~512001341	15/404/60	4020020003
TROM	201/2004.7	133107275	00019/45/01	112/9/025	200007166.7	· JJZ2-192300	008/2007/89	J104001773
SERV	265118766.7	\$73766/93.9	8475938C.79	163585129	346323463.3	139147714.1	· 5852: 976 7	30825293.84
Lotal Inputs	258/32/48/	2298172721	667238459.2	1557110653	3345338455	1045551357	8839398883	5171672983
Med Lawres	× 2038449-1	-741:61-53.6	573540075.0	-5773200307	4.500240600	-50478054	201677840.0	2007087953
Tances-Submentiones	4.3038445-1	-741:08935.6	573540075 D	-5773200707	4.500240600	-504780541	202144224.0	20070832 5
Subvertions	)	22522		)		C	200404	90000
Mage Payments	0.109040.12	210/002532	11000046.2	1001314703	10/402/204	1010054007	2007/07/07/03	1001057303
Construction of Fixed Capital +Operating	53.5000.0005.35							
Simplies	360350006.5	875434355.6	-34805513	1777380664	067558597	366062317	677734565	301,006476.4
Lotal Output	1466546405	26.0004588S	4844660SBS	2407352900	3044387403	1477638516	2048356826	1387268787

	ENCY	CONS	TRCM	SERV	toplem
AGRI	26140126 94	374240 5424	27922081.02	3932222301	431.32761.20
MNE	005900121.4	1079215.009	1020000.002	9579212.955	000107056.0
+0000	82544310393	202:3035329	232739022.5	745997669.6	1901056043
T00A	7007 000004	0.040500026	10270015.10	170090008.5	200915211.2
TEXT	18797697.23	34891.32242	98515159./6	73165955.1	1799878233
LEAT	3807075,639	5198.825662	17574.76	5084241	187069734.7
'MOOD	3825200,027	3577331.141	2076173.730	01411619.14	537028038.0
⊃AP₹	4827379 222	32673 43496	10709034 8	375660538 2	812378751.3
PETR	124707950.0	2094020.777	1142772095	103050544.1	1901907070
∪ <del>н</del> ЕМ	9423635.256	2438236.684	9439237.06	159719267.4	762267348.1
PDER	20054012.47	2014402.01	09040071.0	70110000:00	079055577
VIRAL:	155105469.5	93906774.72	4358485.502	333680998.5	652897418.5
VETA.	15654221.18	22853272.37	8083343.217	43376427.19	228647318.9
FABIN	130179073.2	12411200.81	20062448.15	77198439.36	530625000.1
WACH	46756258 37	3289724 559	1449904246	280824836.7	520339349 6
ELOM	90740709.04	2050040.990	01.075009.00	91709247.24	201170092.1
TRNS	52636301238	454259./945	230688649.5	81756223.49	551886510
ENGY	137466736.3	1339168.038	40706162.53	454086075.6	926265370.6
2008	100.5151412	92315.33199	357947.1801	133279/05.9	189683391.3
TROVI	144352055.2	10659973.86	697392428.8	1410101321	2993998679
BERV	248004397.8	10418124.54	1203403621	3035020374	7542903080
Total Inputs	1556285590	189739693	3973360716	9192981444	27517517783
Net Taxes	-715396493.2	0002200095	040200529.0	-190759504.1	5720075090
Taxes. Subventions	-682336767.2	3862232845	376007761.5	5450995.393	3593780E7E
Subventions	33359726	2750	32774232	204210500	370104878
<b>W</b> age Payments	239341209.2	1366631600	1103294504	7101609330	12080258283
Consumption of Fixed Capita +Operating Surplus	el 9/4331410.2	439906421.6	352/060/99	14359143023	27318197806
Toplam Output	2056761716	5050577010	0956949549	30454974593	70003649569

ACP1	Private Cursor ption 55054551 (	Pitalo Cursur plion 1/8545451 /	Private Evectored PROBLES		CONTRACTOR OF CO.	Export FARE/UTROS	CONTRACTOR OF THE PROPERTY OF	A. C. C. C. C. C. C. C. C. C. C. C. C. C.	Tulai Supply E 전 IC 44 4 7 개
MINE	89073317,89	4383245 821	C	)	766288910,5	70762520,43	853745478.2	922758518,5	1668840947
FOOD.	2008221050	38012571.64	C	)	-202068113	F77174715,4	2743 58540	451403080,2	5456 81455
OUA	744427373 L	1140097109	t	J	50904/09,23	110577091,4	790555300	403,1191,00	1022090949
TEXT	866838031 8	48580227.28	19410210880	371576183	15686744930	2239827020	2661430362	3/3111442,6	6996030316
LEAT	145038150 (	5066371.018	r	1	30396772,01	120266180,3	030051309	103188887,0	4458 5151,1
Wood	445499935 4	742535,7428	77891566.2	939966,821	98698978,35	107098583,3	623811000 f	35497664,87	1204302771
פרגח	407337131.5	30462541.88	474516.76	371522,582	-38400856,55	F4687703,28	35 166 HF 1	254547366,5	1145383731
M. R.	4400294431	102334019	t	J	-1000347031	19:044017,0	-735450751.2	299001/982/9	1490043495
CHEM	1162971704	32933379 66	C	)	784082720,4	281731429,4	1979933304	1300004688	26441/5338
TEFF.	1206500478	26613500 4	63 0130 415	555710,505	17164396,32	396482130	1.347.335814	413707573,8	1844660555
MRAL	100540140	4404445 007	C	)	0079/4452	109404000,0	700402040 9	122822092,7	2107052790
META		1945324 267	C	)	81280 550	41880 035,3	814747303 8	1420486790	ach 1387 (08
PAUM	12977023777	254000014	49001005 9	100/1/07/9	2599200003	111200491,4	0209023421	2004001092	1477033510
MACH	1009592718	13952281.7	1795558228	307178849	74892160,31	284441397	\$201170046	2216165283	2018353326
H CM	686404145.0	25730311.17	02 533054 6	242060635	20000¥ 5,0	389604083,2	10:6753564	1345076014	1,587,363233
TRNB	1047020401	10002909 02	1144420000	192427000	109421757,0	290794052,4	2500520700	1009001/027	1970/00016
B.0~	4862502417	1046014804	C	)	48601318,54	3600267,25	5845420007	27000110,30	2056761716
0.00%	L	25412572 70	930027-5220	1347.97773	J	2002/04/01/2	1407/204011	4791021077	0.00077010
TROM	4619431116	175852587 7	958258822	14758:447	2442804193	2884491233	545597337€	1038888888	8858949548
SEPV	17506751455	5000717818	1000557070	2581 38735	376006883,0	7887408173	70: 70053357	1138109680	20454074502
TAL	00900001007	0922074400	00100020201	0090007010	-210205/7190	12710000100	54004009211,00	14570224341	00907000000