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**Growth Accounting, Productivity Analysis,  
and Purchasing Power Parity in Korea  
(1984-2000)**

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# **Growth Accounting, Productivity Analysis, and Purchasing Power Parity in Korea (1984-2000)\***

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## **1.Introduction**

In recent years, both growth accounting and productivity analysis by sector have attracted renewed attention on a global scale. The decomposition of inputs into capital (K), labor(L), energy(E) and intermediate materials(M) for detailed industry-level analysis of productivity growth was first applied to the post-war US Economy by Jorgenson, Gollop, and Fraumeni(1987). The basic KLEM-methodology has been extended to cover eight European countries by the European KLEM project as explained in Timmer(2000) and Canada-Japan-USA database(see e.g. Lee and Tang(1999)). In addition, the number of decomposed inputs has increased to include imported goods (I) and services (S) forming the framework of KLEMS methodology as done by Forsgerau and Sorenson (1999).

Earlier studies along the line of the KLEM approach in Korea include Pyo(1984), Kwon(1986), Kwon and Yuhn(1990), and Pyo and Kwon(1991). But their main interests were limited to estimating elasticity of substitution and productivity growth, using data in manufacturing sector only (Pyo(1984) and Kwon(1990), Kwon and Yuhn(1990)) or value-added accounting (Pyo and Kwon(1991)). More recent empirical works such as Kim and Hong (1997), Pyo(2000), Timmer and van Ark(2000), Rhee(2001) also gross output accounting. The earlier exception was Kim and Park (1988) but it was also limited to manufacturing sector. Therefore, it would be desirable for us to attempt a growth accounting of gross output in a consistent framework of the KLEM approach. In addition to growth accounting, the international comparison of productivity among countries require a consistent database for purchasing power parity (PPP) at industrial level by each country.

The purpose of this paper is to discuss the application of the KLEM-methodology to the Korean database and present the result of gross output growth accounting. After a review of availability of data, I conclude that the detailed consistent output and inputs data for the Korean economy exist for the period of 1984-2000 except estimates of PPP. But there has been progress made in estimating PPP by Izumi(2002) and ESCAP(2002). The data in constant prices are available with 1995 as the base year and the decomposition of data is as detailed as specified by the summary of the first ICPA project by Kuroda (2001) and quite comparable to the Japanese database. In what follows in section 2, a review of KLEM framework is presented. Section 3 examines data on gross output and value-added from national accounts and Input-Output Tables, the measurement of factor inputs and purchasing power parity. Section 4 presents the result of growth accounting and productivity analysis. The last section concludes the

paper.

## 2. Framework of KLEM Model

Following Jorgenson, Golop and Fraumeni (1987) and Jorgenson and Stiroh(1999) and Kuroda(2001), Suppose that an industry with a state of technology,  $T(t)$ , at the period  $t$  is described by a linear homogeneous production function with  $n$  inputs,

$$Z^j = f^j(X_1^j, X_2^j, \dots, X_n^j, T(t)), \quad (1)$$

where the function is twice-differentiable, concave and monotonic. Under competitive market condition, the producer's behavior is alternatively described by a price possibility frontier dual to (1):

$$q^j = g^j(p_1^j, p_2^j, \dots, p_n^j, T(t)), \quad (2)$$

where  $q^j$  and  $Z^j$  stand for the vector of prices and quantities of outputs of the  $j$ -th sector and  $p_i^j$  and  $X_i^j$  represent the prices and quantities of inputs of the  $j$ -th sector, respectively.

Assumption of the producer's behavior in the competitive market is a sort of working hypothesis in our analysis. Changes of the relative factor prices had an impact on the shifts of resources among factors and the allocations of those among sectors seriously. From equations (1) and (2), the growth rate in technical efficiency in the production function and the growth rate of output price reduction derived from technical change are defined respectively as follows:

$$\frac{\partial \ln Z^j}{\partial T} \cdot \frac{dT}{dt} = \frac{d \ln Z^j}{dt} - \sum_{i=1}^n \left( \frac{\partial \ln Z^j}{\partial \ln X_i^j} \right) \cdot \left( \frac{d \ln X_i^j}{dt} \right), \quad (3)$$

and

$$-\frac{\partial \ln q^j}{\partial T} \cdot \frac{dT}{dt} = \sum_{i=1}^n \left( \frac{\partial \ln q^j}{\partial \ln p_i^j} \right) \cdot \left( \frac{d \ln p_i^j}{dt} \right) - \frac{d \ln q^j}{dt}. \quad (4)$$

Using the Konus-Byushgen' lemma under the condition of producers' equilibrium in competitive market, we obtain:

$$\frac{\partial \ln Z^j}{\partial \ln X_i^j} = \frac{(\partial Z^j / \partial X_i^j) X_i^j}{\sum_{i=1}^n (\partial Z^j / \partial X_i^j) X_i^j} = \frac{p_i^j X_i^j}{\sum_{i=1}^n p_i^j X_i^j} = v_i^j. \quad (5)$$

Symmetrically applying the Shephard's lemma to the dual price possibility frontier function, we obtain:

$$\frac{\partial \ln q^j}{\partial \ln p_i^j} = \frac{p_i^j X_i^j}{\sum_{i=1}^n p_i^j X_i^j} = v_i^j \quad (6)$$

Inserting (5) and (6) into (3) and (4) respectively we obtain:

$$\frac{\dot{\varphi}^j}{\varphi} = \frac{\partial \ln Z^j}{\partial T} \cdot \frac{dT}{dt} = - \frac{\partial \ln q^j}{\partial T} \cdot \frac{dT}{dt}. \quad (7)$$

On the other hand, as a definition of the accounting balance in the j-th sector, the following equation can be introduced:

$$q^j Z^j = P^j X^j, \quad (8)$$

where  $P^j$  and  $Z^j$  stand for the vectors of prices and quantities of inputs. Differentiating by time,

$$\frac{\dot{q}^j}{q^j} + \frac{\dot{Z}^j}{Z^j} = \frac{\dot{P}^j}{P^j} + \frac{\dot{X}^j}{X^j}. \quad (9)$$

We can deduce the TFP growth rate of the j-th sector from equation (9) as follows:

$$\frac{\dot{\varphi}^j}{\varphi^j} = \frac{\dot{Z}^j}{Z^j} - \frac{\dot{X}^j}{X^j} = \frac{\dot{P}^j}{P^j} - \frac{\dot{q}^j}{q^j}, \quad (10)$$

where  $\varphi^j$  is  $Z^j / X^j$ , that is, an index of TFP Equation (10) implies that the TFP growth rate as an integrated measure of the efficiency of production can be defined as the difference of the growth rates between output and inputs. Under the condition of producer's equilibrium in a competitive market, it is completely corresponding to the formulation of the rate of technical change of (7).

The necessary conditions for producer equilibrium are combined with growth rates of inputs and output in each sector to provide the index of sectoral technical change that depends only on prices and quantities of the sector's inputs and output. Considering data for the  $j$ -th industrial sector at any two discrete points of time, the average rate of TFP change in that sectoral can be expressed as the difference between successive logarithms of output less a weighted average of the differences between successive logarithms of capital(K), Labor(L), energy(E), and intermediate inputs (M) :

$$\begin{aligned} \ln Z^j(t) - \ln Z^j(t-1) = & \{v_K^{-j} [\ln K^j(t) - \ln K^j(t-1)] + v_L^{-j} [\ln L^j(t) - \ln L^j(t-1)] \\ & + v_E^{-j} [\ln E^j(t) - \ln E^j(t-1)] + v_M^{-j} [\ln M^j(t) - \ln M^j(t-1)] \\ & + v_T^{-j}\}, \quad (j = 1, \dots, J). \end{aligned} \quad (11)$$

The weights are given by the average shares of capital, labor, energy, intermediate inputs in the value of output:

$$v_K^{-j} = \frac{1}{2} [v_K^j(t) + v_K^j(t-1)]$$

$$v_L^{-j} = \frac{1}{2} [v_L^j(t) + v_L^j(t-1)]$$

$$v_E^{-j} = \frac{1}{2} [v_E^j(t) + v_E^j(t-1)]$$

$$v_M^{-j} = \frac{1}{2} [v_M^j(t) + v_M^j(t-1)]$$

and:

$$\bar{v}_T^j = \frac{1}{2} [v_T^j(t) + v_T^j(t-1)]$$

Two components of this index taking account of technical change, the translog quantity indices of change in sectoral labor input and in sectoral capital input, will discuss in detail later respectively. Indices are based on translog aggregator functions, defining sectoral labor input and capital input over each input's individual components. Likewise, the translog specification for the aggregator function of intermediate input can be written as:

$$X^j = \exp \left[ \sum_i^J \alpha_i^j \ln X_i^j + \frac{1}{2} \sum_i^J \sum_h^J \beta_{ih}^j \ln X_i^j \ln X_h^j \right], \quad (j = 1, 2, \dots, J) \quad (12)$$

Considering data for the  $j$ -th sector at any two discrete points of time, the quantity index of change in sectoral energy and intermediate inputs can be written as the weighted average of the differences in logarithms of individual inputs:

$$\begin{aligned} \ln E^j(t) - \ln E^j(t-1) &= \sum_i \bar{v}_{Ei}^j [\ln E_i^j(t) - \ln E_i^j(t-1)] \\ \ln M^j(t) - \ln M^j(t-1) &= \sum_i \bar{v}_{Mi}^j [\ln M_i^j(t) - \ln M_i^j(t-1)] \end{aligned} \quad (13)$$

where the weights are given by the average value shares of the  $j$ -th industry's total intermediate input outlay accruing to respective types of intermediate material ( $X = M$ ) and energy ( $X = E$ ) inputs:

$$\bar{v}_{Xi}^j = \frac{1}{2} [v_{Xi}^j(t) + v_{Xi}^j(t-1)],$$

and where the value shares of each intermediate input is:

$$v_{Xi}^j = \frac{P_{Xi}^j X_i^j}{\sum_i P_{Xi}^j X_i^j}$$

### **3. Database for Korea (1984-2000)**

#### **3.1 Gross Output Data from National Accounts and Input-Output Table**

National accounts by the Bank of Korea (1999) (2002) reports annual series (1970-2000) of gross output, intermediate consumption, GDP, indirect taxes, consumption of fixed capital, domestic factor income, compensation of employees, and operating surplus of 21 industries including 9 manufacturing industries and 3 sub-sectors of government services in current prices following 1993 UN System of National Accounts.

The Bank of Korea has also published Input-Output Tables since 1960. Its most recent 2000 Input-Output Table is the 19<sup>th</sup> Table. The detailed description of Input-Output Tables during 1970-2000 is summarized in Table 1. The 1995 Table has 77 industrial sectors and 28 larger classification. Therefore, the estimation of time series Input-Output Tables following those methods described in Kuroda(2001) would be required if we have to estimate KLEM model with more than 21 industrial classifications since Input-Output Tables are available only in selected years.

For the present study, we have generated gross output and value-added by 33 industries through RAS method. The generated annual data of both gross output and value-added have been adjusted to match against National Income Accounts. Since RAS method is sensitive to the initial value of the I/O coefficients, we have used the I/O Table in the closest year as initial value.

We have used V-Table to generate commodity prices by 33 sector and then used the generated commodity prices to estimate output prices by 33 sector. The resulting estimates of output and value-added are presented in Appendix Table A-3 and Table A-4. The respective price indices of output and commodities are presented in Table 8 and Table 9.

#### **3.2 Measurement of Capital Stocks**

The success of late industrialization by newly industrializing economies could not have been made possible if both the rapid accumulation of capital and its changing distribution among sectors were not realized in their development process. However, it is difficult to identify these factors empirically because the time series data of capital stocks in fast-developing economies by both types of assets and by industries are not readily available. The lack of investment data for a sufficiently long period of time to apply the perpetual inventory estimation method was the main cause of the problem. However, the National Statistical Office of the Republic of Korea has conducted nation-



wide national wealth survey four times since 1968. Korea is one of fewer countries which have conducted economy-wide national wealth surveys at a regular interval. Since the first National Wealth Survey(NWS) was conducted in 1968, the subsequent surveys were made in every ten years in 1977, 1987, and 1997, respectively. Since such regular surveys with nation-wide converge are very rare in both developed and developing countries, an analysis on the dynamic profile of national wealth seems warranted to examine how national wealth in a fast growing economy is accumulated and distributed among different sectors. The estimation of national wealth by types of assets and by industries was made by Pyo (1998) and updated in Pyo(2002) by modified perpetual inventory method and polynomial benchmark-year estimation method using four benchmark-year estimates. The latter study modifies and extends the earlier one in two respects. First, the result of 1997 NWS has been released in 1999 so that we can make use of additional benchmark-year estimates. Second re-basing the estimates of capital stocks from 1990 prices to 1995 prices seems inevitable because Bank of Korea has re-based their national accounts accordingly

### 1) National Wealth Survey in Korea

In National Wealth Survey (NWS), the gross capital stock (GK) was evaluated by multiplying the purchase price of the fixed tangible asset by the appropriate price index by types of assets which have been compiled and prepared by the Bank of Korea dating back to the year 1910 as follows :

$$GK_i = P_i^t \times PI_i^t$$

where  $GK$  is the value of gross capital stock of asset  $i$  evaluated at a certain benchmark year  $m$  ( $m > t$ ),  $P$  is the purchase price of the asset  $i$  in year  $t$ , and  $PI$  is the price index to reflect the value of the asset  $i$ . In other words, the gross capital stock is supposed to reflect the repurchase value or reacquisition value of the fixed tangible asset.

Second, the net capital stock ( $NK$ ) was deduced by multiplying the gross capital stock by the residual cost ratio as follows:

$$NK_i = GK_i \times (S/P_i^t)^{n/N} = P_i^t \times PI_i^t \times (S/P_i^t)^{n/N}$$

**Table 1. Input-Output Tables in Korea (1970-1998)**

## 1. Transaction Tables at Producers' Prices

Year	(number of sector classification)			
	basic	small	medium	large
1970		153	56	
1973*		153	56	
1975	392	164	60	
1978*		164	60	
1980	396	162	64	19
1983*	396	162	64	19
1985	402	161	65	20
1986*		161	65	20
1987*		161	65	20
1988*		161	65	20
1990	405	163	75	26
1993*		163	75	26
1995	402	168	77	28
1998*		168	77	28
2000			77	28

\* Extended I-O tables with sector classification of the preceding main I-O tables.

## 2. Linked Input-Output Tables

Year	(number of sector classification)		
	small	median	large
1975-80-85	161	65	20
1980-85-90	161	75	

## 3. Supporting Tables

(1) Employment Table: 1980 1983 1985 1986 1990\* 1995\* 1997\*

(\*including employment matrix)

(2) Fixed Capital Formation Table: 1990 1995

## 4. U-Table and V-Table (22 industries including 9 Manufacturing industries)

Annual U-Table at 1995 constant prices and annual V-Table in both current and constant prices for 1990-1997 are available in 1999 National Accounts.

Sources: The Bank of Korea Input-Output Tables(1970-1995) CD-ROM and Monthly Bulletin (May 2001)

where  $S$  is the value of survived assets,  $N$  is average service life of the asset and  $n$  is the number of years elapsed. In other words, a proportional depreciation method is adopted. The value of survived assets is assumed to be 10 percent of the purchase value when it reaches the assumed average service life and 1 percent of the purchase value when it reaches double the assumed average service life.

Suppose for example, the average service life of a certain asset such as personal computer is 5 years and it was purchased three years ago at the price of 3,000 dollars. In addition, assume that the inflation rate of the computer price since the purchase year is 20 percent. Then the following calculations can be made:

$$GK = 3,000 \times 1.2 = 3,600$$

$$NK = 3,000 \times 1.2 \times \left(\frac{300}{3,000}\right)^{\frac{3}{5}}$$

Korea's NWS assumes shorter average lives than OECD(1996) and BEA(1993). For example, the OECD average asset life for buildings and structures is 48 years and BEA's are 32-80 years for residential structure and 31-48 years for nonresidential structure while Korea's NWS assumes average service life of 23-60 years for residential buildings and 8-60 years for nonresidential buildings. For automobiles, Korea's assumed average life (4-5 years) is shorter than BEA's (10 years). The shorter average life and, therefore, higher depreciation rate are typical in the process of late industrialization.

## 2) Estimation of Net and Gross Capital Stock

### (1) Estimating Method for 1977-97

In principle the existence of four benchmark year estimates of gross and net capital stocks makes it possible for us to apply the polynomial benchmark year estimation method. In my earlier studies (Pyo 1988, 1992, and 1997), I estimated proportional retirement rates and depreciation rates both by types of assets and by industries based on the polynomial equations.

When we applied the polynomial benchmark year equation to estimate the proportional retirement rates for the sub-periods of 1977-87 and 1987-97, most of estimates became negative including the average economy-wide retirement rates (-3.0% for 1977-87 and -3.1% for 1987-97) except other Construction(0.6%) and Transport Equipment(3.4%) in 1977-87 and Nonresidential Building(0.9%) in 1987-97. Therefore,

following Pyo(1997), we have applied the polynomial benchmark year estimation method to estimating depreciation by types of assets only. Thus we have generated net stocks by types of assets first for the period of 1977-87 and then, distributed them over different sectors of industries by using interpolated industrial weights between the respective benchmark years.

We have decided to estimate net capital stock first and then to estimate gross capital stock by using interpolated net-gross conversion ratios for the following two reasons. The first reason is due to the fact that the margin of prediction error from the polynomial benchmark year equation turns out to be larger with gross capital stock than with net capital stock as had been observed in Pyo(1992).

## (2) Estimating Method for 1953-1967

Since we have decided to use estimates of 1968 NWS as the first benchmark year estimates, we have to estimate capital stocks for the period of 1953-76 using the perpetual inventory equation backward. We first deflated the net stock data of 1968 NWS in current prices into those in 1995 prices using implicit GDP deflator of capital formation. Then, we have estimated capital-output coefficients by industries by regressing net capital stock in 1995 constant prices on real GDP by industries and a linear time trend variable during the period of 1968-87 in order to generate estimates of net stocks by industries during 1953-67 in 1995 prices. We have also used the 1968 NWS weights of different types of assets for the period of 1953-1968.

In order to estimate net stocks by industries for the period of 1968-76, we have used both 1968 NWS and 1977 NWS to estimate interpolated industrial weights by each type of assets. Then, for the period of 1953-67, we have used both cumulated weights of capital formation by industries from old National Income Accounting by the Bank of Korea (1984) and industrial weights of 1968 NWS.

## (3) Estimating Method after 1997

National Statistical Office of Korea has decided to terminate National Wealth Survey by 1997 and to switch from direct estimation to indirect estimation of national wealth following the method of BEA and OECD. The cost of such direct national wealth survey has increased significantly as the size of national economy has expanded considerably. In addition, some of the participating institutions such as Citizens Bank for unincorporated business enterprises have been privatized so that National Statistical Office alone can no longer afford national wealth survey. Japan had terminated its

National Wealth Census in 1977 for almost the same reasons.

Therefore, for the period after 1997 which is the last national wealth survey, we have to estimate capital stocks by a modified perpetual inventory method using 1997 NWS as benchmark estimates. First, we estimate net stocks by type of assets in constant prices by using the depreciation rates estimated from the period of 1987-1977 and distribute them across industries using both industrial weights in 1997 NWS and those in subsequent Mining & Manufacturing Census and Surveys and Wholesale and Retail Surveys. In the long run, the estimated depreciation rates by type of assets may need to be updated and revised by the micro data-based studies. Second the generated net stocks by type of assets and by industries have to be converted into gross stock by using the net-gross conversion ratio of 1997 NWS for the time being. But ultimately we may need further studies on the trend of net-gross conversion ratio by type of assets and by industries and the average asset life.

### 3) Reconciliation with Database of Pyo(2002)

Since the database of Pyo (2002) covers 10 broad categories of industrial sector together with 28 sub-sectors of Manufacturing, it can be reclassified and reconciled with 33-sector classification for the ICPA project. We attach the capital stocks in 33 sectors in Appendix Table A-5.

### 4) Measurement of Capital Price

Following Jorgenson, et.al (1987) and Timmer(2001), the aggregate index of capital services over the different types of assets in j-sector(  $K_i^j(t)$  ) can be assumed as a translog function of the services of individual assets (  $K_i^j(t)$  ) as follows:

$$\ln K^j(t) - \ln K^j(t-1) = \sum_i \bar{v}_i \left[ \ln K_i^j(t) - \ln K_i^j(t-1) \right]$$

where weights are given by the average shares of each type of capital in the value of property compensation,  $\bar{v}_i = \frac{1}{2} [v_i(t) + v_i(t-1)]$  and  $\bar{v}_i(t) = \frac{p_i(t)K_i(t)}{\sum_i p_i(t)K_i(t)}$  with

$P_i(t)$  the rental price of capital services from asset type  $i$ .

In order to apply the above aggregation formula, it is necessary to impute the rental prices of capital services. In the absence of taxation, Jorgenson, Golop and

Fraumeni(1987) and Jorgenson and Yun(1991) have derived the following formula for imputing the rental price of capital services from asset type  $i$ .

$$P_i(t) = \{[r(t) - \Pi_i(t)] + [1 + \Pi_i(t)\delta_i]\}q_i(t-1)$$

where  $r(t)$  is the rate of return,  $q_i(t)$  is the acquisition price of investment good  $i$  with  $\Pi_i(t) = \frac{[q_i(t) - q_i(t-1)]}{q_i(t-1)}$  which is the rate of inflation in the price of investment good  $i$ . The nominal rate of return after tax is usually assumed the same for all assets in an industry so that  $r(t)$  does not have subscript  $i$ .

The application of the above formula requires data on the rate of return, the acquisition price of investment good, and the rate of depreciation of asset  $i$  in each industry  $j$ . Even though we may assume that the nominal rate of return after tax is the same for all assets in each industry, we do not have data for the nominal rate of return for each industry. We may end up using nation-wide ex-ante corporate bonds rate across all industries. In addition, the acquisition prices of each asset in different industries are not usually available and, therefore, investment deflators are frequently used as substitutes for the acquisition prices. But investment deflators in National Accounts are available either by types of assets or by industries not by both. Estimates of depreciation rates in Pyo(2002) are also available either by types of assets or by industries not by both. As a consequence, the likely outcome of the application of the formula could be the same estimates of rental price of capital for each type of asset across all industries.

In case of Korea, there have been studies by Yun and Kim(1997) and Won and Hyun(2000) on the estimation of effective marginal tax rates following methods developed by King and Fullerton(1984) and Jorgenson and Landau(1993). Since they have used the above formula for cost of capital, they must have generated imputed cost of capital. But their estimates are based on all industries not for each industry and even those estimates are not available. Faced with lack of data and consistent estimates for the variables to impute rental price of capital in each industry, we have adopted the following approach.

The following approach can be defined as an indirect method of imputing rental price of capital in  $j$ -sector from the annualized I/O Table. Since we have the data of total compensation to capital in  $j$ -sector in current prices( $P_K^j K^j$ ) from the annualized I/O Table, we impute the implicit price of capital in  $j$ -sector( $P_K^j$ ) by dividing the total compensation to capital by our estimates of capital stock in  $j$ -sector in constant

prices( $K^j$ ):

$$P_K^j = P_K^j K^j / K^j$$

The resulting estimates by 33 industries are presented in Table A-12.

### 3.3 Measurement of Labor Input

In order to measure labor input for KLEM model, we have to obtain both quantity data of labor input such as employment by industries and hours worked and quality factors such as sex, education and age. Both availability and reliability of labor statistics in Korea have improved since 1980. But the measurement of labor input by industries cannot be readily made because the statistics of employment by industries are not detailed enough to cover 33 sectors.

Following the characteristics of labor input described in Kuroda (2001), the sources of labor statistics are presented in Table 2. Economically Active Population Yearbook by National Statistical Office reports number of employed, unemployed, not-economically-active population and economically active population by 10 categories of age group (15-19, 20-24, 25-29, 30-34, 35-39, 40-44, 45-49, 50-54, 55-59, and 60- over 60). Employment by industries is available in 7 broad categories of industries:(1) Agriculture, Forestry and Fishing (2) Mining (3) Manufacturing (4) Construction (5) Wholesale, Retail, Restaurants and Hotel (6) Electricity and Gas, and (7) Transportation, Storage and Finance. More detailed classifications of employment will have to rely on Employment Table, which is published as a supporting table to Input-Output Table. But it is available only every five year when main Input-Output Tables are published. Mining and Manufacturing Census and Survey by National Statistical Office also report employment statistics but it is limited to mining and manufacturing only. Unemployed persons by gender and educational attainment are also available from the same source.

Report on Monthly Labor Survey by Ministry of Labor publishes monthly earnings and working days of regular employees by 12 broad categories of industries. Survey Report on Wage Structure by the same ministry reports wages by 6 categories of occupational classification in old series (1980-1992) and now reports 9 new categories in new series (1993-1999): (1) Senior Officials and Managers (2) Professionals (3) Technicians (4) Clerks (5) Service and Sales Workers (6) Skilled Agriculture and Fishery Workers (7) Craftmen and Assembler (8) Plant and Machine Operator and (9)

Other Laborer. Nominal and real wage index are also available from Report on Monthly Labor Survey by Ministry of Labor.

For the present study, we have obtained the raw data file of Survey Report on Wage Structure from the Ministry of Labor for the period of 1983-2000. The data are classified by two types of gender (Male and Female), three types of age(16-34old, 35-54old, and 55 above old), and three types of education(middle school, high school, and college school) and, therefore, there is a total of 18 categories of labor.

The raw-data file of Survey Report on Wage Structure contains 3-digit industrial classification but we have adjusted them into 33 industry classification. Since Survey Report on Wage Structure does not include Agriculture and Government sector, we had to use Economically Active Population Statistics for these two sectors. In addition, sample sizes in Survey Report on Wage Structure seem to have varied every year so that we have made proportional adjustment based on total employment data of Economically Active Population Statistics.

In order to make quality adjustment to the employment data, we have taken the follow steps;

1) Defining  $P_{Li}^j$  as wage rate for  $j$ -sector and  $l$ -type category of labor, the share of labor income by  $l$ -type category of labor in  $j$ -sector can be expressed as;

$$v_{Li}^j = \frac{P_{Li}^j L_i^j}{\sum P_{Li}^j L_i^j}$$

and, the average weight of  $j$ -sector and  $l$ -type labor income during the period of  $(t-1)$  and  $t$  can be generated as;

$$\bar{v}_{Li}^j = \frac{1}{2} [v_{Li}^j(t) + v_{Li}^j(t-1)]$$

2) In order to make quality adjustment to labor input data, we have further decomposed labor input of  $j$ -sector and  $l$ -type as follows;

$$L_i^j(t) = d_i^j(t) M_i^j(t) H_i^j(t)$$

where  $d_i^j$  denotes relative weight of working hours by  $l$ -type labor in  $j$ -sector. In other words,  $L_i^j(t)$  measures labor input as a weighted average of working hours by different types of labor where weights are relative share of each type of labor in total  $j$ -sector



employment.

3) Finally, the growth rate of  $j$ -sector labor input has been computed as follows:

$$\ln L^j(t) - \ln L^j(t-1) = [\ln M^j(t) - \ln M^j(t-1)] + [\ln H^j(t) - \ln H^j(t-1)] \\ + \sum_l \bar{v}_{Ll}^j [\ln d^j(t) - \ln d^j(t-1)] \quad j = 1, 2, \dots, J$$

where the first bracket on the right hand side measures change in employment, the second bracket measures change in average working hours, and the third bracket measures the change in quality of labor through change in weighted working hours.

For the present study, we have obtained from National Statistical Office the raw data file of Economically Active Population Survey for the period of 1983-2000. We have reclassified the survey file into 33 industrial sectors. But since the sample sizes were different every year, we have adjusted the raw data based on total number of employment reported in annual Economically Active Population Statistics by National Statistical Office. A more detailed description of labor statistics in Korea is attached in Appendix.

### **3.4 Measurement of Energy Input and Material Input**

In order to separate energy input from material input, we have to decompose intermediate inputs into these two input categories. For this purpose, we have used IO Tables and identified 5 sectors (sector 2, 4, 14, 28 and 29) as energy input sector and the remaining 28 sectors as material input sector. For the years when IO Tables are not available, we have used the straight-line interpolation method to measure energy inputs and material inputs into 33 sectors.

**Table 2. Characteristics of Korean Database for KLEM Model**

<p><b>Gross output</b>  National Accounts  Input-Output Table (1980,1985,1990,1995)  U-Table and V-Table      Annual tables (1990-1997)</p>	<p>Number of Sectors  21  64-77 or 20-28  22</p>
<p><b>Capital stock (capital services)</b>  Gross and Net Stock data: National Wealth Survey (1987)(1997)  Capital Formation data: National Accounts(1999)  Annual Gross and Net Stock by Industries and by Types of Assets and Estimated Depreciation Rates are available in Pyo (2001)  Net stock and Investment data: Mining and Manufacturing Census Mining and Manufacturing Survey  - Types of assets: residential building, nonresidential building, other construction, transport equipment, machinery equipment</p>	<p>5 types of assets and 10 large industries with 28 sub-manufacturing industries</p>
<p><b>Labor input (days worked)</b>  Report of Monthly Labor Survey (NSO)  Survey Report on Wage Structure (Ministry of Labor)    -<i>sex</i> (male/female)  -<i>educational attainment</i>  (middle school graduates, high school graduates and college above)  -<i>age classes</i>  (16~34, 35~54, and 55 above)</p>	<p>18 types    2 types  3 types    3 types</p>
<p><b>Intermediate inputs</b>  National Accounts  Input-Output Table(1980, 1985, 1990, 1995)  U-Table and V-Table Annual Tables(1990-1997)  Energy Input; sectors 2, 4, 14, 28, and 29</p>	
<p><b>PPP</b>  -prices of outputs of each industry in both Korea and the reference economy and exchange rate</p>	<p>21 sector by V-Table</p>

### **3.5 Deflators for Gross Output and Inputs**

The 21-sector gross output data by Bank of Korea's national accounts are available only in current prices. For the period after 1985, we have used V Table in both constant and current prices to generate implicit gross output deflators by sector. For the period before 1985, we have used Linked IO Table in constant prices to generate implicit gross output deflators by sector for 1985 and interpolated the data for 1984. For the deflators of energy input and material input, we have used the same sources of data; V Table for the period after 1985 and Linked IO Table before 1985. The basic characteristics of KLEM database in Korea(1984-2000) in 1995 prices is presented in Table 3. During the period of 1984-2000, Korea's gross output and GDP have grown at the average annual rate of 8.51 percent and 7.76 percent respectively. Four inputs have grown at the rate of 9.96%(K), 2.49%(L), 6.05%(E), and 8.12%(M) respectively.

### **3.6 Input Shares**

Regarding shares of inputs, we have used Compensation of Employees in Gross Domestic Product and Factor Income by kind of Economic Activity in national accounts and Operating Surplus to generate relative share of labor input and capital input respectively in total value-added and then adjusted them into shares in total gross output. We have divided the amount of energy input and material input by gross output to generate shares of energy input and material input respectively. Estimated average shares of inputs are attached in Appendix as Table A-9.

**Table 3. Characteristics of KLEM Database in Korea(1984-2000)**

(in 1995 prices)

<b>year</b>	<b>Gross Output</b> <b>billion Won</b>	<b>K</b> <b>billion Won</b>	<b>L</b> <b>10000 hour</b>	<b>E</b> <b>billion Won</b>	<b>M</b> <b>billion Won</b>
<b>1984</b>	278148	533761	109794	25227	139325
<b>1985</b>	294601	593025	109870	24318	149136
<b>1986</b>	344750	658641	114382	21288	175803
<b>1987</b>	399397	734392	132499	23769	204804
<b>1988</b>	456631	816559	136940	23647	232905
<b>1989</b>	496413	911981	132431	24647	251339
<b>1990</b>	556380	1030335	134602	26872	281359
<b>1991</b>	615542	1165511	126097	31615	305115
<b>1992</b>	657531	1305141	134962	34963	323404
<b>1993</b>	703166	1456944	139271	40015	336708
<b>1994</b>	766040	1626579	141029	39728	368744
<b>1995</b>	839337	1817780	147609	40070	405804
<b>1996</b>	907542	2027206	144852	50394	434832
<b>1997</b>	963556	2242411	142013	54722	463201
<b>1998</b>	956724	2353239	132303	63595	454926
<b>1999</b>	984104	2468150	154855	68706	474948
<b>2000</b>	1049237	2596497	159016	76255	512637
<b>Average</b>	8.32	9.96	2.49	6.05	8.21
<b>growth rate</b>					

### 3.7 Measurement of Purchasing Power Parity

So far there was no systematic efforts to measure PPP by sector in Korea except the aggregate estimates being used in the estimation of real interest rates by Lee(1997), ESCAP, OECD(2002), and Izumi(2002) which estimated PPP between Japan and Korea. The estimates by Izumi(2002) are shown in Table 4. But the Bank of Korea has just started a project for estimating PPP with OECD. Therefore, we may be able to use their estimates at the later stage of ICPA project.

OECD(2002) reports estimates of PPP for 1999 benchmark year as shown in Table

5 for selected countries. The unsuitability of using indices of nominal GDP to make international volume comparisons is even more apparent when the per capita indices of nominal and real GDP are considered. For example, when ranked by their indices of nominal and real GDP per head, Japan is 3, the United States is 5, Sweden is 8 and Canada is 17. However, when the price level effect is removed and countries are ranked by their indices of real GDP per head, the United States is 2, Canada is 8, Japan is 11 and Sweden is 16. Generally indices of real GDP per head narrow the gap between high income countries and low income countries.

The Bank of Korea(2000) reports the estimates of Purchasing Power Parity (PPP) exchange rates among 14 member countries by UN ESCAP. UN had initiated International Comparison Program (ICP) since 1968 and its sixth program was conducted during 1993-1997 (1993 as baseyear) with the participation of 123 countries (14 countries in ESCAP region). Under the sixth ICP ESCAP had adopted 1993 as baseyear and Hongkong dollar as benchmark currency for the ESCAP region. The program proceeded by the following three steps;

- (1) GDP (expenditure side) data from each country was readjusted following ICP classification (a total of 142 items including 120 items of household consumption expenditure, 3 items of public consumption expenditure, and 19 items of capital formation). Then price data of ICP core commodity list were collected and readjusted accordingly.
- (2) Price indices by items were computed by making use of price matrix table.
- (3) To make international comparison possible, price indices by items were averaged and converted into HongKong dollar..

As shown in Table 6, the estimated PPP exchange rates in 1993 in the ESCAP region except Japan were lower than the market exchange rates indicating that the purchasing power of ESCAP member countries' currencies except Yen were undervalued. Yen was overvalued by 71.8 percent while Korean Won, for example, was undervalued by 20.1 percent.

While Japan's PPP-adjusted per capita GDP in 1993 was 154,663 HK\$, its per capita GDP evaluated by market average exchange rate was 265,638 HK\$, Korea's corresponding figures were 73,235 HK\$ and 58,474 HK\$ respectively. According to the Bank of Korea(2000), the gap between PPP-adjusted per capita GDP in US\$ and per capita GDP evaluated by market average exchange rate in US\$ had peaked in 1975 by the ratio of 2.55 to 1 but has declined over time to reach to the ratio of 1.31 to 1 in 1993.

The ESCAP report also presents an interesting relative price indices by major expenditure categories of member countries. In general, countries with higher per capita income have maintained relatively higher prices of government consumption goods and relatively lower prices of investment goods. For example, compared with 1993 GDP deflator index of 100, Japan's relative price indices of government consumption goods and investment goods were 150 and 92 respectively. Korea's corresponding indices were estimated to be 158 and 78 respectively.

The relative price structure by commodity groups reveals that the relative price of priced-services and non-tradable goods tend to be higher as per capita income grows. This pattern of relative price structure indicates that higher-income economies tend to have higher productivity in producing commodities and lower productivity in producing services due to relatively higher wage costs in service sector.

In case of Japan., the relative price indices of priced services and all services were 2.532 and 2.516 respectively and those of tradable goods and non-tradable goods were 0.642 and 1.618 respectively. In case of Korea, the corresponding price indices of services were 4.368 and 0.806 respectively, while the corresponding price indices of tradable goods and non-tradable goods were 1.225 and 0.864 respectively.

In order to prepare for the measurement of purchasing power parity for the ICPA project by 33 sectors, we have generated implicit gross output deflators by 33 sectors as attached in Appendix Table A-17. The only available data source for both gross output and GDP deflators for the period of 1985-1997 was V-Table (Make Matrix) published by Bank of Korea(1994)(1999) as attached Appendix Table A-18. Since it covers only 21 sectors, we have assumed that the implicit deflators would be equal among subsectors. For the year 1984, we have used linked IO Tables of 1980 and 1985 in both current and constant prices and interpolated the implicit deflators.

During the period of 1984-2000, the gross output deflator of total industries has grown at an average annual rate of 3.70 percent.

Lastly, the relative price structure of gross output deflators and GDP deflators could be generated and attached in Appendix Table A-19.

## 4. Growth Accounting and Productivity Analysis

We have conducted a preliminary growth accounting and productivity analysis for Korea (1984-2000). It is preliminary in the sense that we have not quality-adjusted the input data but used quantity-based data. In other words, we have not used education, sex, and age data for labor input because employment data needs further scrutiny; some data were based on too small sample size, for example.

### 4.1 Gross Output Growth Accounting

In Table 8, we present average growth rates of gross output and four inputs in 1995 constant won with average input shares during the period of 1984-2000 in Appendix as Table A-9, A-10, A-11 and A-12. The gross output (YO) of all industries has grown at the average annual rate of 8.32 percent while capital (K), labor (L), energy (E), and material input (M) have grown at the rate of 10.0 percent, 2.5 percent, 6.1 percent, and 8.2 percent respectively during the period. The average estimated shares of four inputs were  $0.21(V_K)$ ,  $0.20(V_L)$ ,  $0.08(V_E)$  and  $0.51(V_M)$  respectively.

The economy-wide growth rate of total factor productivity (TFP) is estimated to be 1.04 percent. Therefore, the relative contribution of TFP to output growth is estimated to be 12.5 percent, which is of rather significant magnitude. The total factor productivity growth in gross output growth is lower than the one without quality adjustment in input data. However, it is still quite significant magnitude rejecting the Krugman's (1994) proposition and earlier empirical findings by Young (1994) and Lau and Kim (1994).

### 4.2 Productivity Trend and Capital-Output Coefficients

We have generated a series of labor productivity; gross output per employee ( $YO/L$ ). During the period of 1984-2000, the growth rates of economy-wide output labor productivities were 5.98 percent. The trends in labor productivity are shown in Figure 1.

We have also generated a series of capital-output coefficients; capital-gross output coefficients ( $K/Y_0$ ) as shown in Table 9. The economy-wide capital-output coefficient has grown at average.

**Table 4 Korea /Japan Purchasing Power Parities**

1990 official Rate : 4.89 won per yen

1995 official Rate : 8.20 won per yen

Industrial Classification	1995			1990		
	Korea Weight	Japan Weight	Geometric average	Korea Weight	Japan Weight	Geometric average
001 Paddy	4.771	4.810	4.790	3.426	3.535	3.408
002 Other agricultural Products	4.316	4.290	4.303	2.977	3.113	3.044
003 Livestock	4.170	4.528	4.345	4.163	4.083	4.123
004 Forestry	3.401	3.401	3.401	1.579	1.57	1.579
005 Fishery	4.770	4.707	4.738	3.013	3.261	3.134
006 Crude petroleum and natural gas*	6.401	6.064	6.231	4.863	5.933	5.371
007 Other mining	6.401	6.064	6.231	4.863	5.933	5.371
008 Food, beverage and tobacco	4.499	4.913	4.702	2.536	3.261	2.876
009 Textile, leather, and the products thereof	4.472	5.084	4.768	1.974	2.297	2.130
010 Timber and wooden products	1.819	1.819	1.819	2.401	2.401	2.401
011 Pulp, paper and printing**	3.406	5.053	4.149	2.924	4.528	3.639
012 Chemical products	3.469	2.183	2.752	3.106	3.581	3.335
013 Petroleum and petro products	2.322	1.967	2.138	3.349	3.795	3.565
014 Rubber products	4.464	4.081	4.268	5.138	5.201	5.169
015 Non-metallic mineral products	5.077	7.006	5.964	2.652	3.653	3.113
016 Metal products	1.781	4.872	2.945	2.646	3.686	3.123
017 Machinery	6.048	6.289	6.167	3.647	5.272	4.385
018 Transport equipment	3.897	5.524	4.640	5.011	5.882	5.429
019 Other manufacturing products**	3.406	5.053	4.149	2.924	2.858	2.826
020 Electricity, gas, and water supply	2.940	2.937	2.944	2.794	2.858	2.826
021 Construction	3.705	3.705	3.705	1.942	2.078	2.009
022 Trade and transport	4.016	4.038	4.027	2.079	2.208	2.142
023 Services	3.203	2.994	3.097	1.867	1.879	1.873
024 Public administration	3.459	3.459	3.459	1.582	1.582	1.582
All Industries average	3.464	3.994	3.720	2.408	3.020	2.697

Sources : Izumi (2002)



**Table 5. Exchange rates, PPPs, comparative price levels and indices of nominal and real final expenditure on GDP, 1999 in Selected Countries**

Country	Exchange Rates	PPPs	Comparative price levels	Nominal GDP	Real GDP	Nominal GDP per head	Real GDP per head
France	0.938	0.973	104	5.73	5.48	106	102
Germany	0.938	0.978	105	8.38	7.98	114	109
Italy	0.938	0.803	86	4.70	5.45	91	106
United Kingdom	0.618	0.650	106	5.81	5.48	109	103
Japan	114	162	143	17.92	12.50	158	110
Korea	1187	755	64	1.62	2.53	39	60
Mexico	9.55	5.63	59	1.91	3.22	22	37
United States	1.00	1.00	101	36.66	36.38	150	149
Euro 12	0.938	0.894	96	26.55	27.64	98	102
Eu15	.....	0.918	99	34.02	34.53	101	102
OECD 30	.....	.....	100	100	100	100	100

Sources : OECD(2002) Table J

**Table 6 International Comparison of Purchasing Power Parity in Selected Counties (1993)**

		<b>Hong Kong</b>	<b>Japan</b>	<b>Korea</b>
<b>1. PPP adjusted Exchange Rate and Market Exchange Rate</b>				
PPP-adjusted Exchange Rate (A)		1.00	24.68	82.80
Market Exchange Rate (B)		1.00	14.37	103.70
A/B(%)		100.00	171.75	79.85
<b>2. Comparison of GDP and Per Capita GDP in the ESCAP Region</b>				
GDP (HK\$ Million)	PPP Exchange rate(A)	894,734	19,332,901	3,226,430
	Market Average Exchange rate(B)	894,734	33,204,751	2,576,143
	A/B(%)	100.0	58.2	125.2
Per Capita GDP (HK \$)	PPP Exchange rate(A)	151,624	154,663	73,235
	Market Average Exchange rate(B)	151,624	265,638	58,474
	A/B(%)	100.0	58.2	125.2
<b>3. Composition of Per Capita Expenditure (ESCAP AVERAGE = 100)</b>				
GDP		372.5	380.0	179.9
Consumer Expenditure		401.1	368.9	142.5
Government Expenditure		148.2	197.4	141.3
Capital Formation		367.8	438.8	256.3
<b>4. Relative Price by the types of Goods</b>				
Priced Services		2.620	2.532	4.368
All Services		2.232	2.516	0.806
Commodities		0.745	0.723	1.115
Traded Goods		0.666	0.642	1.225
Non-Traded Goods		1.659	1.618	0.864

Source: Bank of Korea (2000)

**Table 7 Relative Price Structure in Selected ESCAP Countries(1993)**

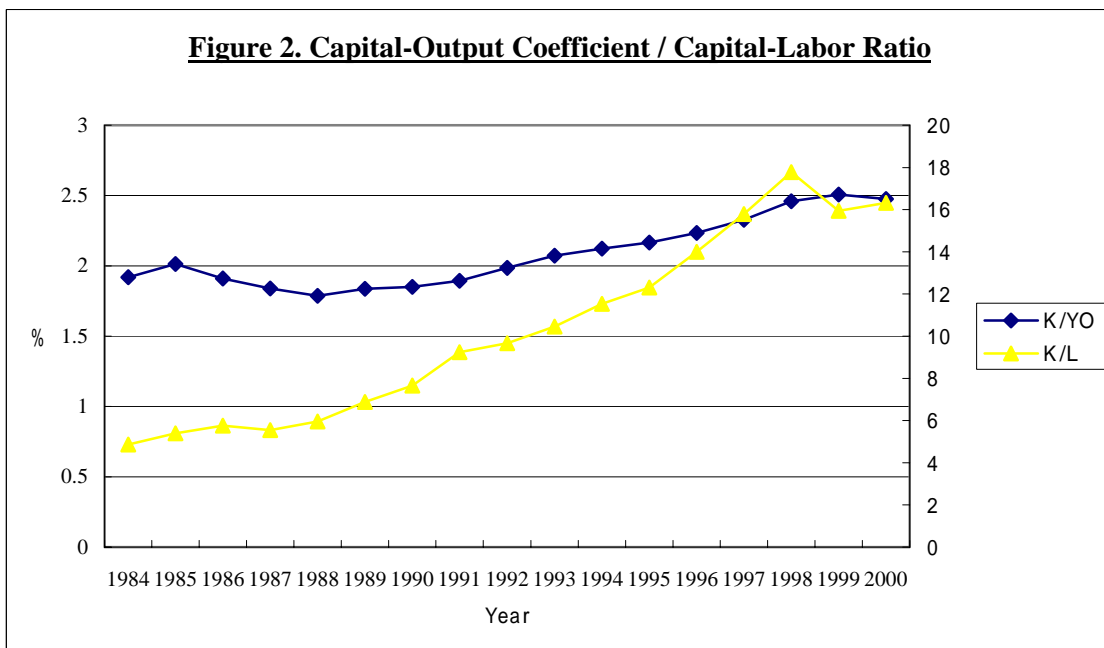
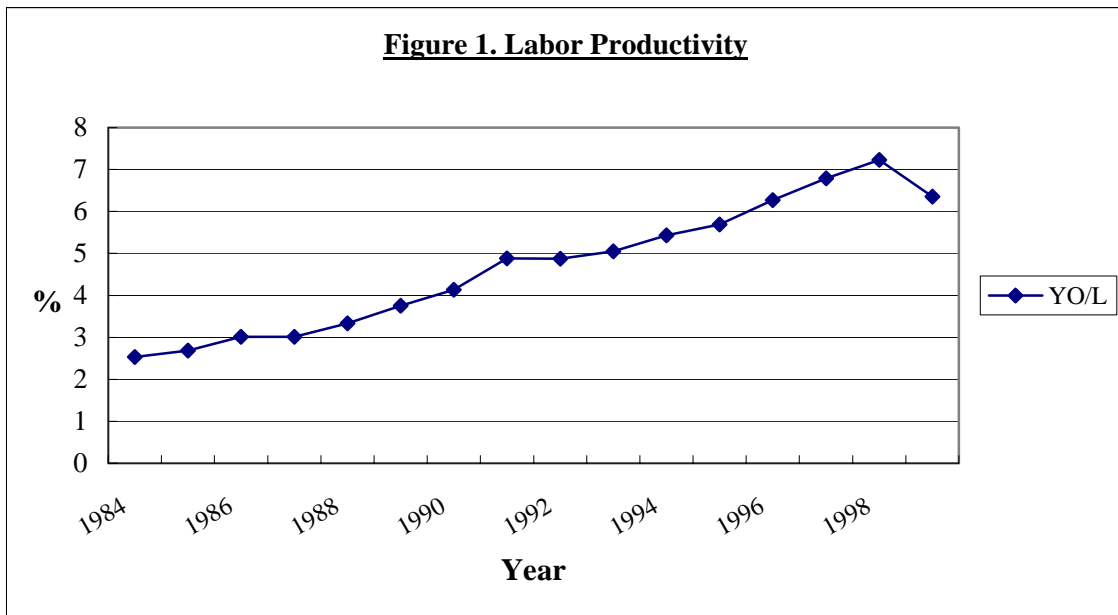
	Per Capita Expenditure (ESCAP Average = 100)			Relative Price (GDP = 100)			Composition of Per Capita Expenditure(GDP = 100)		
	HK	Japan	Korea	HK	Japan	Korea	HK	Japan	Korea
<b>Consumer Expenditure</b>	418.3	327.3	134.3	93	102	115	64.7	58.3	47.6
<b>Food, Beverage, Tobacco</b>	176.4	198.2	140.3	72	109	112	8.5	11.0	15.5
Bakery, cereal	59.6	170.4	76.0	68	118	151	0.8	2.7	2.4
Meat	484.3	149.0	156.4	56	109	119	2.5	0.9	1.9
Fishery	314.1	231.0	143.1	77	142	123	1.6	1.3	1.6
Dairy Products	80.4	161.9	121.6	79	76	93	0.3	0.6	0.9
Fruits, Vegetables	113.0	160.5	156.8	81	119	129	0.9	1.5	2.9
Beverage	168.1	400.7	226.6	111	96	97	0.6	1.7	2.0
Tobacco	56.7	222.5	227.5	234	92	76	0.2	0.8	1.6
<b>Clothing, Footwear</b>	1320.4	343.8	76.5	63	98	137	13.7	4.1	1.8
<b>Housing, water, electricity, gas</b>	134.5	421.0	65.6	218	92	173	3.8	13.8	4.3
<b>Furnishings, Household Equipment</b>	342.6	333.6	148.2	96	94	126	3.2	3.6	3.2
<b>Health</b>	411.7	323.5	165.0	118	123	122	3.5	3.2	3.2
<b>Transport</b>	400.1	322.9	213.5	97	109	64	5.7	5.3	7.0
<b>Education, Recreation</b>	683.0	421.8	201.4	94	107	111	13.5	9.6	9.2
Recreation	1180.2	500.2	166.9	75	96	117	11.8	5.8	3.8
Education	179.3	342.2	236.3	217	124	107	1.8	3.9	5.3
<b>Others</b>	808.7	426.4	97.5	93	97	142	12.7	7.7	3.5
<b>Government Expenditure</b>	147.6	167.3	127.2	237	150	158	2.8	3.6	5.5
<b>Capital Formulation</b>	402.3	408.3	253.4	101	92	78	32.5	38.0	46.9
<b>Equipment</b>	516.3	439.8	254.2	72	82	78	15.0	14.7	16.9
<b>Construction</b>	314.1	381.3	293.4	116	100	80	14.1	19.8	30.2
<b>GDP</b>	393.2	341.2	171.4	100	100	100	100.0	100.0	100.0

**Table 8 Gross Output Growth Accounting for Korea (1984-1997)**

	Growth output	Capital Input	Labor Input	Energy Input	Material Input	TFP
1 Agriculture	1.66	7.10	-2.43	4.70	2.07	-2.85
2 coal mining	-10.37	-2.46	-11.90	-9.66	-7.81	-0.86
3 Metal non-metal	3.75	-15.95	-5.90	5.11	4.12	10.76
4 Oil and gas	0.00	-0.85	0.00	0.00	0.00	0.02
5 Construction	5.40	13.08	7.01	-3.53	5.18	-1.55
6 Food	3.07	7.73	0.90	3.06	2.75	-0.52
7 Textile	2.30	5.19	-5.08	2.70	1.01	1.52
8 Apparels	3.54	4.10	-6.98	3.45	3.60	1.72
9 lumber and wood	6.70	4.63	-5.22	5.65	5.56	2.62
10 Furniture	9.49	10.28	-2.21	8.02	9.02	2.16
11 paper allied	6.84	13.06	0.50	6.38	6.33	0.19
12 printing,publishing,allied	7.88	8.09	2.22	5.83	8.16	1.32
13 Chemicals	7.94	11.48	-0.01	9.94	7.46	0.25
14 petroleum products	6.04	11.79	-0.01	3.76	6.12	0.31
15 Leather	0.38	0.70	-20.38	1.19	-0.37	4.07
16 stone,clay,glass	6.48	9.14	-2.27	3.59	6.54	1.27
17 primary metal	7.29	9.10	3.33	5.24	6.84	0.51
18 fabricated metal	7.38	11.96	0.09	5.86	6.32	1.36
19 Machinery	10.60	7.58	5.67	8.02	10.59	1.39
20 electrical machinery	14.24	14.40	-1.99	9.66	14.13	2.13
21 Motor	14.39	12.05	5.08	7.16	15.22	1.12
22 transportation equip.	3.05	21.29	5.08	-10.88	3.66	-2.66
23 Instrument	10.87	11.01	0.80	7.67	11.05	1.64
24 Rubber	11.39	12.07	-4.76	11.85	11.19	2.89
25 misc.manufacturing	1.53	23.95	-5.59	1.74	1.02	-2.20
26 transportation	6.66	7.12	2.55	4.79	8.59	0.68
27 communication	13.66	12.29	2.54	10.13	17.67	3.41
28 electric utility	6.65	8.28	7.07	2.93	8.53	-0.02
29 gas utility	17.44	17.90	7.06	19.63	10.49	1.22
30 Trade	8.19	12.16	11.37	6.18	10.00	-2.93
31 Finance and real estate	13.54	8.09	9.07	13.74	14.07	3.55
32 other private service	8.85	11.86	9.91	8.73	9.12	-1.17
33 Public service	7.46	11.36	1.81	0.35	2.06	5.41
<b>Total</b>	<b>8.32</b>	<b>9.96</b>	<b>2.49</b>	<b>6.05</b>	<b>8.21</b>	<b>1.04</b>

**Table 9. Trends in Productivity and Capital-Output Coefficients in Korea(1984-2000)**

Year	YO/L	K /YO	K/L
1984	2.53	1.92	4.86
1985	2.68	2.01	5.40
1986	3.01	1.91	5.76
1987	3.01	1.84	5.54
1988	3.33	1.79	5.96
1989	3.75	1.84	6.89
1990	4.13	1.85	7.65
1991	4.88	1.89	9.24
1992	4.87	1.98	9.67
1993	5.05	2.07	10.46
1994	5.43	2.12	11.53
1995	5.69	2.17	12.31
1996	6.27	2.23	14.00
1997	6.78	2.33	15.79
1998	7.23	2.46	17.79
1999	6.36	2.51	15.94
2000	6.60	2.47	16.33
Average	5.98	1.59	7.57
Growth Rate(%)			



rate of 1.59 percent. The economy-wide capital-labor ratio has grown at 7.57 percent. Capital-gross output coefficient started to fall after 1998 implying a structural change

after the financial crisis in 1997

## **5. Conclusion**

In the present paper, we have constructed a Korean database of gross output, GDP, and four input series for the period of 1984-2000 in the framework of KLEM Model. However, due to lack of sufficiently large sample employment survey, we have not adjusted labor input data by age, sex, and education yet. Therefore, our results of growth accounting and productivity estimation are a preliminary one.

According to a gross-output growth accounting, the Korean economy has recorded a significant growth of total factor productivity during the period of 1984-2000. It is a contrary finding to earlier empirical results based upon value-added growth accounting. We also have noted that there was a discernable structural turning point after the 1997 economic crisis in Korea: both capital-gross output coefficient and capital-value-added coefficient started to fall after 1997.

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## Appendix

### Labor Statistics in Korea

- Table A-1. Reclassification of IO Tables into 33 sectors
- Table A-2. Reclassification of National Accounts into 33 Sectors
- Table A-3. Gross Output in 33 Sectors
- Table A-4. GDP in 33 Sectors
- Table A-5. Capital Stocks in 33 Sectors
- Table A-6. Labor Input in 33 Sectors
- Table A-7. Energy Input in 33 Sectors
- Table A-8. Material Input in 33 Sectors
- Table A-9. Average Shares of Capital Inputs
- Table A-10. Average Shares of Labor Inputs
- Table A-11. Average Shares of Energy Inputs
- Table A-12. Average Shares of Material Inputs
- Table A-13. Capital Price Index
- Table A-14. Labor Price Index
- Table A-15. Energy Price Index
- Table A-16. Material Price Index
- Table A-17. Price Index of Output by 33 Industries(Korea : 1984-2000)
- Table A-18. Price Index of Commodities from V-Table(Korea : 1984-2000)
- Table A-19. Relative Price Index of Gross Output Deflators by 33 Industries (Korea: 1984-2000)
- Table A-20. Input-Output Table by 33 sector (1983-2000)

## Labor statistics in Korea

### . Introduction

In order to measure labor input for growth accounting and Total Factor Productivity(TFP), we have to obtain both quantity data of labor input such as employment and hours worked by industries and quality factors such as sex, education and age. Both availability and reliability of labor statistics in Korea have been improved since 1980.

The labor statistics which are available for TFP in Korea are such as;

- (1) Report on the Economically Active Population Survey(經濟活動人口調查)
- (2) Report on Mining and Manufacturing Survey(鑛工業統計調查)
- (3) Report on Industrial Census(産業總調查)
- (4) Survey Report on Wage Structure(賃金構造基本統計調查)
- (5) Report on Monthly Labor Survey(每月勞動統計調查)
- (6) Input-Output Tables(産業聯關表)

Each statistic has its own purpose of survey, and has been conducted periodically (monthly, yearly and per 3-5 years) by household survey or establishment survey. And most of labor statistics are designed by KSIC (Korean Standard Industrial Classification) except I-O Tables. But KSIC has been revised 8 times since 1965. So, industrial classifications should be matched before and after a revision for consistency of time series data.

### . Characteristics of Labor Statistics

#### (1) Report on the Economically Active Population Survey(經濟活動人口調查)

NSO(National Statistical Office) has monthly surveyed 「 Report on the Economically Active Population 」 by household sample survey. The industrial classification is decomposed into 2 digits by KSIC. The scope of survey is the entire industries, and covers all persons over 15 years old. The primary purpose of the survey is to collect up-to-date information on the economic status of the population and on changes in the activity pattern of the labor force. The report has been surveyed since 1962. The main contents of survey are as follows:

- Sex: (i) men, (ii) women
- Education: (i) under elementary school (ii) elementary school (iii) middle school  
(iv) high school (v) college (vi) university (vii) graduate school
- Status of worker: (i) regular employees (ii) temporary employees (iii) daily workers

(iv) Self-employed (v) unpaid family workers

- Age
- Weekly hours worked

**(2) Report on Mining and Manufacturing Survey(鑛工業統計調査)**

NSO has also surveyed every year 「Report on Mining and Manufacturing」 on the establishment with 5 persons over. The industrial classification is decomposed to 5 digits by KSIC, and the scope of survey includes (i) mining and (ii) manufacturing. The purpose of the survey is to provide statistics for the structure and production activities of mining and manufacturing sectors such as gross output, added value, capital and labor input etc. The report has been surveyed since 1969. The main contents of survey are as follows:

- Gross Output
- Value Added
- Employment
- Wage
- Production cost
- Tangible assets

**(3) Report on Industrial Census(産業總調査)**

「Report on Industrial Census」 has been surveyed on the establishment with one person over every 5 year by NSO. The industrial classification is planned to 5 digits by KSIC, and the scope of survey is (i) mining, (ii) manufacturing and (iii) electricity, gas and water supply. The purpose of the survey is firstly to provide the information on industrial structure of mining, manufacturing and electricity, gas and water supply, and secondly to supply the population statistics for sample survey. The report has been surveyed since 1955. The main contents of survey are identical with the 「Report on Mining and Manufacturing Survey(鑛工業統計調査)」

**(4) Survey Report on Wage Structure(賃金構造基本統計調査)**

Ministry of Labor has conducted yearly survey 「Survey Report on Wage Structure」 by sample survey on the establishments of 10 persons over until 1998, and on the establishments of 5 persons over since 1999. The industrial classification is decomposed to 2 digits by KSIC, and the scope of survey covers entire industries. The purpose of the survey is to collect information on the working conditions of labor such as wage, hours worked etc. The report has been

surveyed since 1968. The main contents of survey are as follows:

- Sex
- Age
- Education
- Duration and Career
- Skill
- Wage
- Hours worked
- Employment

**(5) Report on Monthly Labor Survey(每月勞動統計調查)**

Ministry of Labor has also surveyed 「Report on Monthly Labor Survey」 by sample survey on the establishments of 10 persons over until 1998, and on the establishments of 5 persons over since 1999. The industrial classification is decomposed to 2 digits by KSIC, and the scope of survey covers entire industries. The purpose of the survey is to collect monthly data on employment, wages and hours of work. The report has been surveyed since 1970. The main factors of survey are as follows:

- Sex
- Employment (regular worker)
- Wage
- Hours worked

**(6) Input-Output Tables(産業聯關表)**

Bank of Korea has released 「Input-Output Tables」 per 3-5 years since 1963. The sector is classified into 28 sector(大分類) - 77 sectors(中分類) - 128 sectors(小分類) - 402 sectors(基本部門) in 1998 I-O Tables. The main variables of I-O Tables are such as;

- Gross Output
- Value Added
- Intermediate Input
- Employment
- Compensation cost

## . Composition of labor statistics for growth accounting

### 1. Employment

- (1) Report on the Economically Active Population Survey(經濟活動人口調查)
- (2) Report on Mining and Manufacturing Survey(鑛工業統計調查)
- (3) Report on Industrial Census(産業總調查)
- (4) Input-Output Tables(産業聯關表)

### 2. Shares of Labor

- (1) Survey Report on Wage Structure(賃金構造基本統計調查)
- (2) Report on Monthly Labor Survey(每月勞動統計調查)
- (3) Input-Output Tables(産業聯關表)

### 3. Hours worked

- (1) Survey Report on Wage Structure(賃金構造基本統計調查)
- (2) Report on Monthly Labor Survey(每月勞動統計調查)

### 4. Wage

- (1) Survey Report on Wage Structure(賃金構造基本統計調查)
- (2) Report on Monthly Labor Survey(每月勞動統計調查)

### [Labor statistics in Korea]

Labor Statistics	Org	Industrial classification	Scope	Survey Period	Survey Method	Data Availability	Main Factors
(1) Report on the Economically Active Population	NSO	KSIC (2digits)	-Whole Ind	monthly	Household Survey	1985	-sex -education -age -status -weekly hours

Labor Statistics	Org	Industrial classification	Scope	Survey Period	Survey Method	Data Availability	Main Factors
(2) Report on Mining and Manufacturing	NSO	KSIC (5digits)	-Mining -Manufacturing	yearly	5 persons over/ establishment survey	1980	-gross output -value added -employment -wage -production cost -tangible assets
(3) Report on Industrial Census	NSO	KSIC (5digits)	-Mining -Manufacturing -Electricity, gas, water	per 5 years	1 person over/ establishment survey	1983	-gross output -value added -employment -wage -production cost -tangible assets
(4) Report on Wage Structure	MOL	KSIC (2-3digits)	-Whole Ind	yearly	5 persons over/ establishment sample survey	1980	-sex -age -education -duration/career -skill -wage -hour -employment
(5) Report on Monthly Labor Survey	MOL	KSIC (2digits)	-Whole Ind	monthly	5 persons over/ establishment sample survey	1983	-sex -employment -wage -hour
(6) Input-Output Tables	BOK	28-402 sectors	-Whole Ind	per 3 or 5 years		1970	-gross output -value added -intermediate -employment -compensation cost



**Table A-1. Reclassification of IO Tables into 33 sectors**

(\*small-sized classification)

33 Sectors	Classification in IO Table(1980/1983)	Classification in IO Table(1985-1988)
1. Agriculture	0001~0006	0001~0005
2. Coal Mining	0007	0006
3. Metal and Mon-metal	0008~0009	0007~0008
4. Oil and Gas	0024*	0017*
5. Construction	0046~0047	0049~0050
6. Food	0010~0018	0009~0017
7. Textile	0019~0020, 0054~0055,0057*	0018~0029
8. Apparels	0056*	0021
9. Lumber and Wood	0060~0062*	0057~0058, 0060*
10. Furniture	0062~0064*	0059*
11. Paper allied	0024	0024
12. Printing, Publishing, allied	0025	0025
13. Chemicals	0026~0031	0026~0031
14. Petroleum products	0032~0033	0032~0033
15. Leather	0022	0022
16. Stone, Clay, Glass	0035	0035
17. Primary metal	0036~0038	0036~0038
18. Fabricated machinery	0039	0039
19. Machinery	0040	0040
20. Electrical machinery	0041~0042	0041~0042
21. Motor	0118*	0116*
22. Transportation equip.	0115~0117, 0119~0120*	0114~0115, 0117~0118*
23. Instrument	0044	0044
24. Rubber and Misc. Plastic	0034	0034
25. Misc. manufacturing	0045	0045
26. Transportation	00053	0053
27. Communication	0054	0054
28. Electric utility	0048	0046
29. Gas and water utility	0049~0050	0047~0048
30. Trade	0051~0052	0051~0052
31. Finance	0055~0056	0055~0057
32. Other Private service	0058~0061	0059~0062
33.Public service	0057	0058

<b>33 Sectors</b>	<b>Classification in IO Table(1990/1993)</b>	<b>Classification in IO Table(1995/1998)</b>
<b>1. Agriculture</b>	0001-0005	0001~0004
<b>2. Coal Mining</b>	0006	0005
<b>3. Metal and Mon-metal</b>	0008-0009	0007~0008
<b>4. Oil and Gas</b>	0007	0006
<b>5. Construction</b>	0059-0060	0061~0062
<b>6. Food</b>	0010-0017	0010-0018
<b>7. Textile</b>	0018-0020	0019~0020,0022
<b>8. Apparels</b>	0021	0021
<b>9. Lumber and Wood</b>	0023	0024
<b>10. Furniture</b>	0024	0057
<b>11. Paper allied</b>	0025	0025
<b>12. Printing, Publishing, allied</b>	0026	0026
<b>13. Chemicals</b>	0027-0033	0029~0035
<b>14. Petroleum products</b>	0034-0035	0027~0028
<b>15. Leather</b>	0022	0023
<b>16. Stone, Clay, Glass</b>	0038-0040	0038~0041
<b>17. Primary metal</b>	0041-0043	0042~0044
<b>18. Fabricated machinery</b>	0044	0045
<b>19. Machinery</b>	0045-0046	0046~0047
<b>20. Electrical machinery</b>	0047-0051	0048~0052
<b>21. Motor</b>	0053	0054
<b>22. Transportation equip.</b>	0054	0055~0056
<b>23. Instrument</b>	0052	0053
<b>24. Rubber and Misc. Plastic</b>	0036-0037	0036~0037
<b>25. Misc. manufacturing</b>	0055	0058
<b>26. Transportation</b>	0063	0065
<b>27. Communication</b>	0064	0066
<b>28. Electric utility</b>	0056	0059
<b>29. Gas and water utility</b>	0057-0058	0060
<b>30. Trade</b>	0061-0062	0063~0064
<b>31. Finance</b>	0065-0067	0067~0069
<b>32. Other Private service</b>	0069-0072	0071~0072
<b>33.Public service</b>	0068	0070

(\*small-sized classification)

**Table A-2. Reclassification of National Account into 33 Sectors**

<b>Classification in National Account</b>	<b>Reclassification into 33 Sectors</b>
1. Agriculture, Forestry and fishing	1. Agriculture
2. Mining and Quarrying	2. Coal Mining 3. Metal and Non-metal 4. Oil and Gas
3. Food, Beverage and Tobacco	6. Food
4. Textile and Leather	7. Textile 8. Apparels 15. Leather
5. Wood, Paper, Publishing and Printing	9. Lumber and Wood 11. Paper allied 12. Printing, Publishing, allied
6. Petroleum, Coal, and Chemicals	13. Chemicals 14. Petroleum products 24. Rubber and Misc. Plastic
7. Non-Metallic Mineral Products except Petroleum and Coal	16. Stone, Clay, Glass
8. Metal, Fabricated Metal Products	17. Primary metal 18. Fabricated machinery
9; Machinery and Equipment	19. Machinery 20. Electrical machinery 23. Instrument
10. Transport Equipment	21. Motor 22. Transportation equip
11. Furniture and Other Manufacturing Industries	10. Furniture 25. Misc. manufacturing
12. Electricity, Gas and Water	28. Electric utility 29. Gas and water utility
13. Construction	5. Construction
14. Wholesale and Retail Trade, Restaurants and Hotels	30. Trade
15. Transport, Storage and Communication	26. Transportation 27. Communication
16. Finance, Insurance, Real Estate and Business Services	31. Finance
17. Community, Social and Personal Services	32. Other Private service
18. Producers of Government Services	33. Public service

**Table A-3. Gross Output in 33 Sectors**

Gross Output at 1995 Price	1984	1985	1986	1987	1988	1989	1990	1991	1992
1Agriculture	22709	23514	25657	26369	29913	28450	28202	29198	31200
2Coal Mining	904	971	1096	1172	1381	1142	937	768	740
3Metal and Non-Metal	912	1015	1084	1135	1259	1640	2028	2480	2719
4Oil and gas	0	0	0	0	0	0	0	0	0
5Construction	16364	12125	13395	15257	15955	37969	59386	64715	68960
6Food	30216	31653	35624	36690	40647	38812	38285	40420	43649
7Textile	14885	16418	20045	24295	25289	23576	23129	23782	24693
8Apparels	5244	6282	7231	9106	9507	7517	6059	5998	6064
9Lumber and Wood	1164	1649	1656	1867	2281	2400	2596	3032	3349
10Furniture	734	829	949	1041	1532	1819	2201	2604	2845
11Paper Allied	3414	3590	4524	5825	6735	6697	7045	7403	7690
12Printing,Publishing,Allied	2015	2197	2353	2813	3324	3793	4447	4771	4977
13Chemicals	13685	15022	18140	22220	26508	25569	25775	28678	31122
14Petroleum Products	13928	13226	11464	11878	11317	10647	10565	13301	15237
15Leather	2319	1931	2595	3046	3352	7306	12270	10916	10800
16Stone,Clay,Glass	4657	4916	5626	6467	7600	8497	9561	10687	11647
17Primary Metal	14080	15107	17073	21351	24449	26065	29745	32947	34860
18Fabricated Metal	5000	5322	6532	7402	9425	9680	10672	12408	13261
19Machinery	6219	6782	9454	11340	13506	15709	18824	21567	23052
20Electrical Machinery	12889	15251	22365	28156	36392	36263	38300	42543	45254
21Motor	3967	4811	6988	10450	12916	13620	12748	14492	15951
22Transportation Equipment	4858	5062	4222	3562	3953	8322	13551	16017	17526
23Instrument	1070	1242	1589	1971	2508	2419	2480	2742	2913
24Rubber	3033	3530	4725	5789	6843	8041	9150	10170	11032
25Miscellaneous Manufacturing	3060	3400	4555	5720	5860	5075	4563	4589	4751
26Transportation	12996	13248	15359	16786	18913	19204	20845	23689	25704
27Communication	2886	3290	3787	4652	5424	5600	6160	7071	7547
28Electric Utility	5310	5725	6633	7517	8208	7790	7640	8720	9375
29Gas and Water Utility	499	544	608	710	885	1316	1788	2393	2691
30Trade	22243	24153	29142	35210	39418	40900	43682	45939	47764
31Finance and Real Estate	20785	25250	29282	34481	40556	48676	56771	67648	72253
32Ether Private Service	16910	17005	19485	22219	25565	26932	29375	34156	36730
33Public Service	9196	9545	11515	12902	15208	14970	17602	19699	21174
<b>Total</b>	<b>278148</b>	<b>294602</b>	<b>344750</b>	<b>399397</b>	<b>456632</b>	<b>496413</b>	<b>556380</b>	<b>615542</b>	<b>657531</b>

Gross Output at 1995 Price	1993	1994	1995	1996	1997	1998	1999	2000	Average Growth
									Rate(%)
1Agriculture	30358	31193	33065	33008	34172	30531	29103	28918	1.66
2Coal Mining	446	357	283	265	267	212	196	189	-10.37
3Metal and Non-Metal	3192	3074	3012	2749	2718	2038	1850	1714	3.75
4Oil and gas	0	0	0	0	0	0	0	0	0.00
5Construction	74974	79904	85282	90069	95777	92205	83639	78904	5.40
6Food	43124	41910	43312	46718	50711	51119	48632	48376	3.07
7Textile	23846	20664	18343	20755	22088	23021	21241	20372	2.30
8Apparels	5589	8624	11417	12101	12803	12513	10727	9520	3.54
9Lumber and Wood	3636	3573	3612	3363	3454	2704	2613	2611	6.70
10Furniture	3181	3596	3910	3595	3638	2802	3167	3637	9.49
11Paper Allied	7626	8757	9897	10381	11090	10630	10267	10345	6.84
12Printing,Publishing,Allied	5079	6422	7704	7615	7970	6958	7028	7393	7.88
13Chemicals	33346	37976	41764	46612	48402	48841	47354	47736	7.94
14Petroleum Products	18991	18123	18289	24878	28237	35274	39591	45368	6.04
15Leather	8299	6804	5678	5483	5620	4786	4397	4196	0.38
16Stone,Clay,Glass	13103	14649	16341	16648	17264	15602	14136	13323	6.48
17Primary Metal	36497	39769	43328	47869	50767	51228	47138	45204	7.29
18Fabricated Metal	14618	15645	16793	17692	18690	17684	16753	16545	7.38
19Machinery	25235	27948	30777	30714	32503	28132	31430	35841	10.60
20Electrical Machinery	48735	58801	68463	78876	87950	93797	105986	121776	14.24
21Motor	17349	29216	40285	38594	39297	32515	39230	47305	14.39
22Transportation Equipment	19947	14905	10298	11881	13037	14023	13082	12627	3.05
23Instrument	3139	3862	4559	4652	4927	4573	4970	5589	10.87
24Rubber	11932	13407	14607	15482	15969	15152	15803	16982	11.39
25Miscellaneous Manufacturing	4577	4333	4176	4179	4323	3842	3765	3866	1.53
26Transportation	28211	31234	34243	38181	40213	41393	39212	38880	6.66
27Communication	8307	10119	12046	14651	16077	18366	21363	25171	13.66
28Electric Utility	10318	11062	11924	13362	14061	14685	14914	15601	6.65
29Gas and Water Utility	3408	3502	3712	5052	5664	7130	7882	8955	17.44
30Trade	48323	52050	57068	57923	59772	54500	67186	82434	8.19
31Finance and Real Estate	83948	94284	106245	116929	123571	126450	133520	144576	13.54
32Ether Private Service	41120	47528	53908	59722	63130	64428	67674	73320	8.85
33Public Service	22713	22750	24997	27545	29395	29591	30254	31963	7.46
Total	703167	766040	839337	907543	963556	956725	984105	1049238	8.32

**Table A-4 GDP in 33 sectors**

At 1995 constant price	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 agriculture</b>	15891	15776	16829	17807	20630	19998	18803	19607
<b>2 coal mining</b>	570	583	658	734	953	799	612	504
<b>3 Metal non-metal</b>	684	669	715	748	828	1105	1429	1736
<b>4 Oil and gas</b>	0	0	0	0	0	0	0	0
<b>5 construction</b>	7040	5066	5496	6408	6926	16652	27773	30350
<b>6 food</b>	7637	7708	8750	9193	10362	10508	9431	10346
<b>7 textile</b>	3427	3697	4977	6249	6614	6319	5373	5768
<b>8 apparels</b>	1281	1394	1628	2189	2446	1990	1346	1404
<b>9 lumber and wood</b>	189	298	312	377	478	530	565	680
<b>10 Furniture</b>	211	212	244	293	418	487	709	825
<b>11 paper allied</b>	784	905	1141	1457	1677	1725	1964	2136
<b>12 printing,publishing,allied</b>	736	834	870	1000	1208	1423	1746	1928
<b>13 chemicals</b>	3556	3948	5027	6113	7372	7471	7143	8100
<b>14 petroleum products</b>	2305	2166	3676	3125	3572	2980	1749	2631
<b>15 leather</b>	424	442	500	658	664	1599	3371	3076
<b>16 stone,clay,glass</b>	1457	1659	2006	2293	2779	3147	3882	4413
<b>17 primary metal</b>	2133	2566	2973	3746	4490	4877	5982	6875
<b>18 fabricated metal</b>	1252	1625	2014	2200	2849	2989	3497	4169
<b>19 Machinery</b>	1898	2128	3107	3850	4582	5310	6534	7583
<b>20 electrical machinery</b>	3277	4387	6578	8323	10361	10756	10813	12269
<b>21 Motor</b>	1369	1497	2120	2965	3758	4153	4516	5085
<b>22 transportation equip.</b>	1644	1509	1152	528	764	1283	4040	4823
<b>23 instrument</b>	278	405	489	636	810	797	789	889
<b>24 rubber</b>	959	1148	1565	1985	2388	2816	2832	3230
<b>25 misc.manufacturing</b>	993	1120	1563	1966	2005	1776	1651	1687
<b>26 transportation</b>	6842	6308	7789	8027	9500	9437	11093	12511
<b>27 communication</b>	2405	2816	3275	3995	4666	4845	5258	6032
<b>28 electric utility</b>	2531	3589	4636	5309	5522	5174	4400	5065
<b>29 gas utility</b>	176	200	247	267	336	486	627	878
<b>30 trade</b>	15125	17070	21264	25133	28243	29346	30927	32381
<b>31 Finance and real estate</b>	15879	17986	20920	24995	29304	34970	40160	47658
<b>32 other private service</b>	11970	12712	14702	16696	19442	20695	21989	25608
<b>33 Public service</b>	5004	5372	5940	6833	8223	7318	10255	11534
<b>Total</b>	119927	127794	153164	176096	204171	223760	251259	281779

1992	1993	1994	1995	1996	1997	1998	1999	2000	Average rate
20995	19921	20710	21933	21809	22550	17546	15324	18307	1.23
486	277	229	137	125	125	67	60	84	-10.69
1900	2270	2220	2197	1994	1969	1468	1315	1166	4.18
0	0	0	0	0	0	0	0	0	-3.81
32366	34807	37110	35660	37662	40054	44405	39365	35190	8.11
11299	11969	12016	12561	13457	14576	14641	11920	13216	3.70
6065	6185	5787	5283	5967	6346	7877	6754	6785	4.86
1441	1547	2689	4015	4342	4622	4423	3471	2442	5.32
757	850	884	1018	954	982	718	654	730	11.07
898	1040	1213	1459	1357	1378	945	1029	1309	11.07
2241	2186	2505	3016	3202	3434	3006	2783	2766	8.07
2027	2101	2647	3271	3248	3404	2707	2653	2397	7.59
8838	9511	10837	12448	13733	14211	12803	11683	10967	7.42
3136	6282	5775	6698	8808	9911	12346	12999	14948	11.18
3067	2260	1911	1664	1627	1674	1482	1171	1153	4.98
4830	5120	5821	6145	6251	6480	5842	5222	4624	7.46
7349	7841	8301	9669	10886	11614	11169	9983	9632	9.66
4487	4985	5264	5685	6032	6388	6540	5970	5843	9.79
8133	8655	9587	10675	10766	11432	9035	9617	11197	11.22
13128	15608	18878	23289	26230	29051	26163	28079	33558	14.78
5582	5372	11995	12082	11641	11877	8088	9078	10736	13.37
5291	5887	4911	3191	3733	4115	5545	4903	3742	5.29
949	940	1184	1523	1521	1601	1419	1467	1454	10.81
3529	3829	4326	4722	4987	5139	4417	4332	5223	11.43
1754	1744	1687	1644	1652	1712	1599	1500	1319	2.29
13548	14328	16674	17630	19210	20092	19711	18249	16518	5.71
6437	6947	8365	9912	11980	13121	14407	16558	15792	12.12
5453	5425	5934	6445	6997	7297	7758	8056	8556	7.79
996	1100	1141	1202	1558	1723	2287	2382	2604	16.95
33629	33011	35316	38128	38284	39377	34733	42276	46201	7.32
50845	60874	67106	74366	81355	85822	92021	97647	104562	13.42
27550	30524	35155	39652	43494	45833	45911	47556	47943	8.52
12414	14120	9673	16141	17686	18839	18853	19048	23258	9.58
301420	327517	357854	393462	422547	446751	439932	443105	464223	8.63

**Table A-5. Capital Stocks in 33 Sectors**

Capital Input at 1995 Price	1984	1985	1986	1987	1988	1989	1990	1991	1992
1Agriculture	33100	38153	43308	49915	53877	58615	63843	68374	72234
2Coal Mining	664	829	1229	1216	1443	1773	1035	919	828
3Metal and Non-Metal	3104	3440	3593	4187	4206	4078	1697	1750	1781
4Oil and gas	0	0	0	0	0	0	3307	3413	3476
5Construction	10839	11949	13249	14546	17150	20177	24058	28695	34153
6Food	12672	14362	16501	18461	19797	20990	22530	23952	25824
7Textile	22322	25039	28457	31472	32929	34006	35483	36581	38139
8Apparels	2684	2923	3215	3432	3586	3697	3848	3955	4106
9Lumber and Wood	1843	1831	1799	1661	1784	1896	2045	2188	2379
10Furniture	1861	2134	2482	2810	3105	3396	3766	4144	4634
11Paper Allied	3220	3707	4326	4916	5727	6592	7680	8864	10382
12Printing,Publishing,Allied	2490	2654	2850	2958	3246	3527	3887	4251	4725
13Chemicals	13861	16028	18793	21459	24090	26783	30203	33802	38451
14Petroleum Products	4376	4848	5436	5922	6849	7831	9068	10406	12121
15Leather	2910	3520	4306	5118	5208	5206	5227	5146	5071
16Stone,Clay,Glass	14058	16773	20260	23802	25492	27020	29026	30919	33448
17Primary Metal	20179	22500	25416	27935	30558	33103	36371	39658	43950
18Fabricated Metal	4045	4618	5346	6024	6888	7790	8926	10139	11695
19Machinery	15368	18515	22570	26743	28207	29385	30957	32257	34033
20Electrical Machinery	7889	9622	11860	14195	16580	19129	22333	25821	30286
21Motor	8100	9480	11244	12983	14676	16423	18633	20973	23986
22Transportation Equipment	3990	4669	5538	6395	10749	15836	22148	29488	38782
23Instrument	615	739	899	1064	1169	1273	1404	1538	1711
24Rubber	3114	3477	3931	4323	5008	5734	6649	7640	8910
25Miscellaneous Manufacturing	7663	8813	10275	11667	12929	14190	15799	17459	19612
26Transportation	42505	47695	51901	58106	63893	70906	77410	81964	87869
27Communication	8191	10015	11390	14035	16240	18323	20260	22130	24275
28Electric Utility	20320	23130	26717	30097	32977	34438	36785	39387	42828
29Gas and Water Utility	2094	2542	2992	3444	4099	6474	8988	11190	13434
30Trade	29323	32117	34986	38724	46061	54848	65269	76425	89315
31Finance and Real Estate	158685	169225	180432	196540	212784	233685	262395	306121	339655
32Ether Private Service	24874	28139	31897	36394	42007	48708	57067	66380	76130
33Public Service	54464	58351	61719	65516	76159	90303	107975	126953	146408
<b>Total</b>	<b>533761</b>	<b>593025</b>	<b>658641</b>	<b>734392</b>	<b>816559</b>	<b>911981</b>	<b>1030335</b>	<b>1165511</b>	<b>1305141</b>



Capital Input at 1995 Price	1993	1994	1995	1996	1997	1998	1999	2000	Average Growth Rate(%)
1Agriculture	75630	79071	82683	85552	87101	90140	93726	97963	7.29
2Coal Mining	744	684	605	536	422	449	477	510	-0.14
3Metal and Non-Metal	1773	1662	1499	1071	716	671	644	632	-8.85
4Oil and gas	3462	3351	3109	2903	2353	2555	2760	2983	-0.61
5Construction	40415	47617	56021	65920	76679	82387	87004	91894	13.08
6Food	28089	30195	32234	34154	35952	37518	39364	41602	7.61
7Textile	39976	41235	42014	42205	41753	43571	45715	48314	5.10
8Apparels	4282	4387	4432	4402	4289	4476	4697	4964	4.01
9Lumber and Wood	2617	2852	3095	3347	3608	3765	3951	4175	4.76
10Furniture	5239	5867	6544	7266	8045	8395	8808	9309	10.15
11Paper Allied	12277	14368	16727	19372	22350	23323	24470	25862	12.96
12Printing,Publishing,Allied	5311	5916	6564	7252	7990	8338	8748	9246	8.00
13Chemicals	44236	50434	57276	64785	73083	76265	80018	84567	11.37
14Petroleum Products	14261	16608	19246	22191	25495	26605	27914	29501	11.71
15Leather	4954	4667	4210	3556	2682	2799	2936	3103	1.39
16Stone,Clay,Glass	36559	39560	42594	45622	48674	50794	53293	56323	9.09
17Primary Metal	49256	54702	60509	66658	73230	76418	80179	84737	8.96
18Fabricated Metal	13629	15727	18063	20645	23517	24540	25748	27212	11.87
19Machinery	36154	37870	39281	40300	40895	42676	44776	47321	7.60
20Electrical Machinery	35864	42018	48964	56752	65520	68373	71738	75816	14.38
21Motor	27735	31770	36240	41161	46612	48642	51035	53937	11.96
22Transportation Equipment	50519	64189	80232	98880	120534	125783	131972	139475	21.71
23Instrument	1925	2146	2382	2632	2900	3027	3176	3356	10.96
24Rubber	10495	12237	14197	16386	18846	19666	20634	21807	11.98
25Miscellaneous Manufacturing	22283	25092	28148	31451	35051	36578	38377	40559	9.77
26Transportation	94122	98768	103428	108167	111719	117035	122803	129813	7.23
27Communication	26463	30802	34431	39295	43273	47617	51948	56678	12.68
28Electric Utility	46757	52059	57895	60864	64266	67794	70176	73070	8.21
29Gas and Water Utility	15736	16824	18110	22920	27457	31759	35274	38835	18.33
30Trade	104976	123174	143770	166879	192146	196291	204764	215627	12.37
31Finance and Real Estate	370194	406971	448515	492469	533132	547639	570543	592954	8.29
32Ether Private Service	87218	100000	115264	131755	149862	154560	160281	167107	12.03
33Public Service	165910	188632	217374	250969	286889	318932	338121	357320	11.60
Total	1456944	1626579	1817780	2027206	2242411	2353239	2468150	2596497	9.96

**Table A-6. Labor Input in 33 Sectors**

	1984	1985	1986	1987	1988	1989	1990	1991	1992
1 Agriculture	10654	10015	9345	9603	10582	10877	10749	10075	9463
2 Coal Mining	13348	13072	13148	11687	13144	10135	9837	6537	6019
3 Metal and Non-Metal	3959	3893	3463	3949	3785	3211	2732	2860	2046
4 Oil and gas	0	0	0	0	0	0	0	0	0
5 Construction	26634	31755	30731	28557	28700	30976	34412	37921	62338
6 Food	35237	34004	33822	41833	45225	38227	43559	42026	42375
7 Textile	116868	109747	106790	123607	123953	113812	96754	81719	77997
8 Apparels	71792	79176	68427	78344	69709	61360	61021	50274	43360
9 Lumber and Wood	10386	7936	7184	8416	8758	9065	8119	6252	7845
10 Furniture	6925	6646	6702	5615	6790	6897	7712	7295	6949
11 Paper Allied	11667	11605	12183	14183	15110	14276	14637	13487	15330
12 Printing,Publishing,Allied	12337	11476	11228	13305	15096	16055	16610	14927	16162
13 Chemicals	32147	27608	30474	32580	35411	31552	34371	34795	36966
14 Petroleum Products	1765	1517	1674	1789	1944	1733	1887	1910	2029
15 Leather	39609	28670	33311	50627	55737	46209	47737	41780	38563
16 Stone,Clay,Glass	24252	24641	25268	26804	29779	27635	30082	28565	32371
17 Primary Metal	19335	17756	18700	17226	20798	22279	22642	21285	28604
18 Fabricated Metal	38946	47846	49425	51131	50707	51019	56724	45572	44676
19 Machinery	31317	31454	33181	45674	51097	56764	54904	58754	58607
20 Electrical Machinery	78013	72664	87102	130010	140838	123163	117247	105186	102758
21 Motor	30264	26835	30816	40888	45060	42593	45020	40816	47640
22 Transportation Equipment	10684	9474	10879	14434	15906	15035	15892	14408	16817
23 Instrument	7358	7004	7079	10949	7808	10060	9352	7073	9197
24 Rubber	34794	43173	45356	46917	48134	36108	41732	30841	31359
25 Miscellaneous Manufacturing	22313	23600	24543	31334	29264	25057	21710	16597	15722
26 Transportation	98859	99349	108202	110647	105927	114419	113024	107413	94300
27 Communication	986	991	1079	1103	1056	1141	1127	1071	941
28 Electric Utility	4201	4500	4906	4734	5949	6664	6120	5270	6170
29 Gas and Water Utility	1991	2133	2326	2244	2820	3158	2901	2498	2924
30 Trade	26572	27242	27657	42434	50338	52941	51230	52151	70479
31 Finance and Real Estate	42789	37622	37204	52548	49064	54527	62522	64427	95898
32 Ether Private Service	82786	89693	103195	119837	131758	131760	145627	148360	163270
33 Public Service	149159	155609	158431	151981	149159	155609	158027	158834	160446
<b>Total</b>	<b>1097946</b>	<b>1098708</b>	<b>1143829</b>	<b>1324993</b>	<b>1369407</b>	<b>1324317</b>	<b>1346020</b>	<b>1260980</b>	<b>1349620</b>

	1993	1994	1995	1996	1997	1998	1999	2000
<b>1 Agriculture</b>	8914	8827	8922	9043	8956	8967	8415	7586
<b>2 Coal Mining</b>	4857	4192	3597	2988	2303	1980	2178	2288
<b>3 Metal and Non-Metal</b>	3259	2820	2956	2968	2750	1985	2917	2490
<b>4 Oil and gas</b>	0	0	0	0	0	0	0	0
<b>5 Construction</b>	62431	66908	67104	68997	67746	61339	66959	69396
<b>6 Food</b>	44074	41658	43151	39647	36058	31628	41381	39164
<b>7 Textile</b>	61894	70250	66980	55882	46911	40347	51260	54260
<b>8 Apparels</b>	41341	36515	37615	32058	28248	21563	27216	28051
<b>9 Lumber and Wood</b>	7454	6602	6985	6177	5550	3421	13801	13118
<b>10 Furniture</b>	7517	6167	8413	8805	6993	5194	5006	5507
<b>11 Paper Allied</b>	15135	15218	13600	14255	12945	9994	13801	13118
<b>12 Printing,Publishing,Allied</b>	18144	18806	19982	18834	18041	13979	15045	17539
<b>13 Chemicals</b>	49202	40415	41100	40095	39220	36557	40451	36320
<b>14 Petroleum Products</b>	2700	2219	2256	2201	2153	2007	2221	1994
<b>15 Leather</b>	29842	21212	17809	13945	11431	8758	10587	10911
<b>16 Stone,Clay,Glass</b>	33637	33237	32586	30867	28961	20548	22373	24803
<b>17 Primary Metal</b>	27086	26983	27565	26093	24199	21564	25740	27732
<b>18 Fabricated Metal</b>	38318	44238	46104	40699	38238	29633	37444	38674
<b>19 Machinery</b>	65811	69523	69620	63967	59183	51147	64554	68336
<b>20 Electrical Machinery</b>	97088	93684	108617	104195	97967	82403	104003	110096
<b>21 Motor</b>	49560	46662	53877	59759	60103	48233	49522	56389
<b>22 Transportation Equipment</b>	17494	16472	19018	21094	21216	17026	17481	19905
<b>23 Instrument</b>	8517	9363	9735	8919	8194	7665	9674	10241
<b>24 Rubber</b>	30947	32861	33058	31838	29153	24261	25740	27732
<b>25 Miscellaneous Manufacturing</b>	14560	15860	11595	8202	8960	7223	11241	12366
<b>26 Transportation</b>	128339	128444	131887	130808	135437	128253	125491	123753
<b>27 Communication</b>	1279	1280	1314	1303	1349	1278	1251	1233
<b>28 Electric Utility</b>	6703	5922	7355	7554	7881	8214	8547	8880
<b>29 Gas and Water Utility</b>	3177	2807	3486	3580	3735	3893	4050	4208
<b>30 Trade</b>	88442	87705	98183	98589	99429	81591	134983	146762
<b>31 Finance and Real Estate</b>	102615	105683	112297	115178	118698	114779	141204	139253
<b>32 Ether Private Service</b>	159914	164747	187519	202604	216794	227252	260840	265322
<b>33 Public Service</b>	162462	183022	181812	177378	171331	200356	203178	202736
<b>Total</b>	1392712	1410299	1476098	1448521	1420133	1323038	1548556	1590161

**Table A-7. Energy Input in 33 Sectors**

Energy Input at 1995 Price	1984	1985	1986	1987	1988	1989	1990	1991	1992
1Agriculture	360	444	534	499	468	454	575	628	681
2Coal Mining	71	70	73	72	68	53	46	39	37
3Metal and Non-Metal	74	105	106	109	109	135	123	158	175
4Oil and gas	0	0	0	0	0	0	0	0	0
5Construction	324	378	371	422	385	894	963	1132	1254
6Food	426	409	430	447	458	483	415	475	511
7Textile	452	548	611	764	815	752	620	701	747
8Apparels	63	58	60	74	75	59	47	53	56
9Lumber and Wood	46	34	30	39	49	54	54	66	73
10Furniture	17	13	14	15	22	25	30	37	40
11Paper Allied	172	198	241	270	278	274	241	277	298
12Printing,Publishing,Allied	36	24	24	30	33	38	36	41	45
13Chemicals	1453	1633	1671	1895	1929	1872	2204	2612	2880
14Petroleum Products	11009	10387	6934	7770	6620	6725	7725	9056	10234
15Leather	26	24	30	34	34	81	103	99	100
16Stone,Clay,Glass	876	813	802	930	981	1057	912	1021	1111
17Primary Metal	1166	1117	1254	1340	1561	1642	1796	2150	2366
18Fabricated Metal	171	156	180	214	247	252	187	232	254
19Machinery	154	121	164	174	192	217	225	276	302
20Electrical Machinery	219	211	285	326	408	419	341	413	450
21Motor	102	72	98	167	203	211	112	130	140
22Transportation Equipment	109	61	43	53	51	89	168	209	230
23Instrument	19	23	27	33	40	39	28	34	37
24Rubber	92	91	114	133	142	161	210	252	273
25Miscellaneous Manufacturing	71	62	78	100	98	87	65	71	75
26Transportation	2734	2919	2788	3027	3041	2926	3036	3591	4001
27Communication	60	68	81	98	110	111	81	98	107
28Electric Utility	2175	1534	1231	1172	1441	1433	1967	2242	2427
29Gas and Water Utility	196	229	252	305	369	574	880	1133	1269
30Trade	1138	984	1084	1373	1393	1427	1486	1668	1800
31Finance and Real Estate	303	458	501	543	591	717	946	1218	1342
32Ether Private Service	518	558	604	676	700	721	720	879	962
33Public Service	595	518	573	664	735	662	532	623	685
<b>Total</b>	<b>25227</b>	<b>24319</b>	<b>21289</b>	<b>23770</b>	<b>23647</b>	<b>24647</b>	<b>26873</b>	<b>31616</b>	<b>34963</b>

Energy Input at 1995 Price	1993	1994	1995	1996	1997	1998	1999	2000	Average Growth Rate(%)
1Agriculture	717	669	636	716	733	887	843	888	4.70
2Coal Mining	27	21	19	19	19	16	16	15	-9.66
3Metal and Non-Metal	201	183	197	195	194	175	168	183	5.11
4Oil and gas	0	0	0	0	0	0	0	0	0.00
5Construction	1642	1502	652	779	817	850	816	979	-3.53
6Food	554	533	604	702	738	820	700	761	3.06
7Textile	800	723	619	774	833	956	863	780	2.70
8Apparels	44	74	144	179	190	242	205	155	3.45
9Lumber and Wood	100	99	82	84	84	96	92	101	5.65
10Furniture	50	53	51	54	54	57	67	81	8.02
11Paper Allied	320	356	368	418	438	539	528	528	6.38
12Printing,Publishing,Allied	50	58	93	102	105	107	112	126	5.83
13Chemicals	3495	3564	4047	4943	5234	6663	6673	7918	9.94
14Petroleum Products	10975	10693	10409	14568	16663	20929	24451	28252	3.76
15Leather	76	60	61	66	68	74	62	64	1.19
16Stone,Clay,Glass	1234	1259	1262	1399	1455	1717	1603	1629	3.59
17Primary Metal	2391	2364	2750	3322	3526	3814	3639	2973	5.24
18Fabricated Metal	308	307	400	455	476	516	497	528	5.86
19Machinery	387	403	386	415	426	588	661	672	8.02
20Electrical Machinery	516	598	595	698	741	968	1074	1154	9.66
21Motor	138	273	419	430	436	520	616	741	7.16
22Transportation Equipment	275	205	83	105	113	131	123	147	-10.88
23Instrument	46	56	59	63	65	65	70	75	7.67
24Rubber	336	348	376	424	443	513	539	618	11.85
25Miscellaneous Manufacturing	82	73	94	103	106	101	100	112	1.74
26Transportation	4531	4528	4191	5257	5557	5405	5532	6706	4.79
27Communication	138	163	183	232	252	277	335	359	10.13
28Electric Utility	3178	3268	3476	4182	4475	4525	4412	4473	2.93
29Gas and Water Utility	1801	1831	1997	2836	3218	4225	4848	5549	19.63
30Trade	2220	2187	2157	2426	2509	2189	2860	3555	6.18
31Finance and Real Estate	1496	1593	1677	1997	2125	2205	2464	2524	13.74
32Ether Private Service	1237	1287	1193	1472	1577	2099	2317	2534	8.73
33Public Service	650	401	795	983	1050	1326	1421	1076	0.35
Total	40015	39728	40070	50394	54722	63595	68707	76256	6.05

**Table A-8. Material Input in 33 Sectors**

Material Input at 1995 Price	1984	1985	1986	1987	1988	1989	1990	1991	1992
1Agriculture	6763	7648	8584	8262	8957	8111	8917	9030	9575
2Coal Mining	292	349	393	389	375	297	284	227	219
3Metal and Non-Metal	173	271	287	299	340	413	488	596	651
4Oil and gas	0	0	0	0	0	0	0	0	0
5Construction	9308	6977	7785	8666	8818	20708	31107	33847	35860
6Food	22736	24156	27038	27431	30087	28006	28618	29752	31972
7Textile	11766	12997	15018	17784	18202	16719	17317	17440	17949
8Apparels	3981	4904	5596	6892	7022	5488	4690	4566	4585
9Lumber and Wood	979	1355	1342	1475	1770	1826	1985	2292	2523
10Furniture	525	626	708	749	1108	1319	1474	1756	1920
11Paper Allied	2558	2594	3237	4202	4859	4746	4883	5027	5178
12Printing,Publishing,Allied	1285	1386	1492	1819	2110	2350	2683	2816	2914
13Chemicals	9111	9903	11793	14581	17485	16391	16537	18060	19474
14Petroleum Products	703	745	905	1042	1180	985	1132	1675	1912
15Leather	1943	1532	2129	2405	2702	5731	8942	7844	7696
16Stone,Clay,Glass	2473	2573	2931	3362	3938	4370	4844	5349	5786
17Primary Metal	11081	11703	13066	16481	18558	19656	22071	24043	25229
18Fabricated Metal	3672	3634	4420	5066	6397	6482	7019	8038	8546
19Machinery	4268	4629	6276	7420	8825	10253	12135	13780	14677
20Electrical Machinery	9640	10903	15747	19779	25866	25250	27354	30130	31915
21Motor	2614	3373	4936	7590	9259	9455	8407	9496	10375
22Transportation Equipment	3211	3623	3124	3074	3227	7214	9582	11208	12164
23Instrument	793	844	1097	1327	1680	1597	1680	1840	1945
24Rubber	2110	2438	3160	3776	4392	5132	6160	6752	7286
25Miscellaneous Manufacturing	2118	2329	3002	3743	3820	3254	2882	2868	2949
26Transportation	3774	4386	5062	6033	6628	7060	6871	7711	8238
27Communication	443	431	451	581	664	654	827	944	1006
28Electric Utility	716	696	831	1117	1311	1229	1306	1431	1511
29Gas and Water Utility	148	142	131	162	199	272	292	393	434
30Trade	6547	6629	7209	9127	10061	10284	11355	11947	12373
31Finance and Real Estate	4922	7295	8285	9333	10926	13147	15770	18858	20133
32Ether Private Service	4792	4149	4494	5143	5623	5637	6743	7722	8251
33Public Service	3878	3916	5274	5694	6516	7302	7004	7676	8160
<b>Total</b>	<b>139325</b>	<b>149136</b>	<b>175804</b>	<b>204805</b>	<b>232906</b>	<b>251339</b>	<b>281359</b>	<b>305116</b>	<b>323404</b>

Material Input at 1995 Price	Average								Growth Rate(%)
	1993	1994	1995	1996	1997	1998	1999	2000	
1Agriculture	9747	9826	10497	10491	10909	12131	12985	9785	2.07
2Coal Mining	143	107	127	121	124	129	121	91	-7.81
3Metal and Non-Metal	725	672	619	560	557	397	369	367	4.12
4Oil and gas	0	0	0	0	0	0	0	0	0.00
5Construction	38744	41327	48969	51662	55088	47200	43789	43186	5.18
6Food	30663	29374	30148	32575	35464	35767	36169	34611	2.75
7Textile	16887	14161	12441	14020	14923	14209	13657	12844	1.01
8Apparels	4005	5863	7258	7582	7995	7855	7060	6936	3.60
9Lumber and Wood	2687	2593	2512	2327	2391	1897	1877	1795	5.56
10Furniture	2096	2331	2400	2186	2209	1804	2080	2261	9.02
11Paper Allied	5132	5899	6513	6763	7224	7096	6971	7072	6.33
12Printing,Publishing,Allied	2932	3719	4341	4266	4466	4152	4275	4889	8.16
13Chemicals	20385	23598	25269	27947	28985	29421	29070	28953	7.46
14Petroleum Products	1754	1667	1181	1505	1675	2032	2208	2279	6.12
15Leather	5985	4839	3953	3791	3880	3235	3170	2988	-0.37
16Stone,Clay,Glass	6788	7578	8934	9002	9343	8069	7350	7126	6.54
17Primary Metal	26301	29117	30909	33667	35653	36290	33581	32686	6.84
18Fabricated Metal	9337	10077	10708	11209	11852	10667	10341	10247	6.32
19Machinery	16223	17965	19716	19543	20720	18615	21320	24231	10.59
20Electrical Machinery	32713	39344	44580	51977	58388	67054	77450	88000	14.13
21Motor	11922	16978	27784	26534	27055	23990	29668	36027	15.22
22Transportation Equipment	13880	9799	7024	8047	8843	8394	8118	8826	3.66
23Instrument	2160	2623	2977	3070	3280	3115	3474	4117	11.05
24Rubber	7799	8743	9509	10073	10402	10251	10981	11210	11.19
25Miscellaneous Manufacturing	2761	2574	2439	2425	2510	2149	2176	2451	1.02
26Transportation	9404	10046	12422	13727	14598	16348	15537	15815	8.59
27Communication	1223	1592	1952	2441	2714	3703	4507	9110	17.67
28Electric Utility	1726	1866	2003	2186	2300	2425	2482	2625	8.53
29Gas and Water Utility	512	532	513	659	729	632	677	844	10.49
30Trade	13110	14552	16783	17229	17926	17635	22161	32854	10.00
31Finance and Real Estate	21606	25591	30202	33596	35692	32314	33555	37701	14.07
32Ether Private Service	9376	11092	13063	14767	15761	16480	17899	22997	9.12
33Public Service	7982	12699	8061	8882	9544	9469	9871	7714	2.06
<b>Total</b>	<b>336709</b>	<b>368745</b>	<b>405805</b>	<b>434833</b>	<b>463202</b>	<b>454926</b>	<b>474948</b>	<b>512638</b>	<b>8.21</b>

**Table A-9 Average Shares of Capital Input**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1</b> agriculture	0.60	0.60	0.58	0.56	0.58	0.58	0.59	0.56
<b>2</b> coal mining	0.24	0.24	0.15	0.15	0.16	0.19	0.19	0.18
<b>3</b> Metal non-metal	0.28	0.28	0.25	0.26	0.25	0.26	0.25	0.54
<b>4</b> Oil and gas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>5</b> construction	0.20	0.20	0.18	0.17	0.17	0.18	0.18	0.20
<b>6</b> food	0.20	0.20	0.19	0.19	0.19	0.19	0.20	0.18
<b>7</b> textile	0.11	0.11	0.11	0.13	0.13	0.13	0.13	0.11
<b>8</b> apparels	0.06	0.06	0.07	0.08	0.10	0.10	0.10	0.07
<b>9</b> lumber and wood	0.07	0.07	0.08	0.09	0.09	0.09	0.09	0.09
<b>10</b> Furniture	0.18	0.16	0.13	0.12	0.15	0.14	0.14	0.15
<b>11</b> paper allied	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15
<b>12</b> printing,publishing,allied	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.13
<b>13</b> chemicals	0.17	0.17	0.17	0.18	0.18	0.17	0.18	0.17
<b>14</b> petroleum products	0.14	0.15	0.15	0.30	0.23	0.28	0.25	0.12
<b>15</b> leather	0.05	0.04	0.09	0.08	0.09	0.07	0.08	0.07
<b>16</b> stone,clay,glass	0.18	0.18	0.20	0.21	0.20	0.20	0.20	0.22
<b>17</b> primary metal	0.10	0.10	0.12	0.12	0.12	0.12	0.13	0.13
<b>18</b> fabricated metal	0.10	0.10	0.15	0.16	0.14	0.14	0.14	0.15
<b>19</b> Machinery	0.14	0.15	0.17	0.18	0.18	0.17	0.17	0.17
<b>20</b> electrical machinery	0.16	0.15	0.16	0.17	0.17	0.15	0.16	0.14
<b>21</b> Motor	0.22	0.22	0.19	0.19	0.17	0.18	0.18	0.25
<b>22</b> transportation equip.	0.15	0.15	0.13	0.11	0.04	0.00	0.00	0.13
<b>23</b> instrument	0.12	0.11	0.15	0.15	0.15	0.15	0.15	0.14
<b>24</b> rubber	0.12	0.11	0.11	0.12	0.12	0.12	0.12	0.17
<b>25</b> misc.manufacturing	0.18	0.18	0.15	0.16	0.15	0.15	0.15	0.17
<b>26</b> transportation	0.26	0.27	0.23	0.26	0.24	0.25	0.24	0.24
<b>27</b> communication	0.54	0.54	0.60	0.61	0.61	0.61	0.61	0.56
<b>28</b> electric utility	0.37	0.38	0.53	0.61	0.62	0.59	0.58	0.49
<b>29</b> gas utility	0.22	0.23	0.23	0.27	0.23	0.23	0.22	0.21
<b>30</b> trade	0.50	0.49	0.53	0.55	0.53	0.52	0.51	0.52
<b>31</b> Finance and real estate	0.52	0.51	0.49	0.49	0.51	0.50	0.49	0.48
<b>32</b> other private service	0.22	0.22	0.18	0.18	0.18	0.18	0.18	0.16
<b>33</b> Public service	0.02	0.02	0.01	0.01	0.03	0.03	0.02	0.02
<b>Total</b>	0.20	0.20	0.21	0.22	0.21	0.21	0.21	0.21



1992	1993	1994	1995	1996	1997	1998	1999	2000	Average rate
0.57	0.57	0.54	0.54	0.57	0.58	0.58	0.49	0.45	0.56
0.18	0.18	0.15	0.14	-0.10	-0.10	-0.10	-0.21	-0.21	0.08
0.53	0.53	0.55	0.54	0.50	0.50	0.51	0.51	0.51	0.41
0.03	0.03	0.03	0.01	0.03	0.03	0.03	0.03	0.03	0.03
0.20	0.20	0.20	0.19	0.17	0.17	0.18	0.20	0.20	0.19
0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.21	0.18	0.19
0.11	0.11	0.12	0.13	0.11	0.12	0.12	0.21	0.19	0.13
0.07	0.07	0.09	0.10	0.15	0.16	0.16	0.17	0.16	0.11
0.09	0.09	0.10	0.10	0.12	0.12	0.12	0.13	0.12	0.10
0.15	0.14	0.16	0.16	0.16	0.16	0.17	0.13	0.12	0.15
0.16	0.16	0.16	0.15	0.17	0.18	0.18	0.16	0.16	0.15
0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.12	0.12	0.13
0.17	0.17	0.18	0.18	0.19	0.19	0.19	0.18	0.17	0.18
0.15	0.15	0.30	0.28	0.33	0.32	0.32	0.32	0.30	0.24
0.07	0.07	0.09	0.08	0.10	0.10	0.11	0.11	0.09	0.08
0.22	0.22	0.21	0.20	0.19	0.20	0.20	0.21	0.21	0.20
0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.13
0.15	0.15	0.17	0.16	0.13	0.13	0.13	0.17	0.17	0.14
0.17	0.17	0.16	0.16	0.16	0.17	0.17	0.15	0.14	0.16
0.15	0.15	0.18	0.18	0.22	0.22	0.22	0.18	0.17	0.17
0.25	0.25	0.21	0.28	0.17	0.17	0.17	0.11	0.10	0.20
0.13	0.13	0.12	0.13	0.12	0.13	0.13	0.22	0.21	0.12
0.14	0.14	0.14	0.13	0.15	0.15	0.15	0.14	0.13	0.14
0.17	0.17	0.18	0.17	0.16	0.16	0.17	0.14	0.13	0.14
0.17	0.17	0.19	0.19	0.17	0.18	0.18	0.20	0.19	0.17
0.23	0.23	0.24	0.24	0.22	0.22	0.22	0.24	0.23	0.24
0.55	0.55	0.54	0.52	0.50	0.50	0.51	0.52	0.51	0.55
0.49	0.49	0.44	0.44	0.44	0.43	0.43	0.44	0.45	0.48
0.21	0.21	0.19	0.18	0.18	0.18	0.18	0.22	0.21	0.21
0.52	0.51	0.38	0.36	0.38	0.39	0.39	0.37	0.36	0.46
0.47	0.47	0.49	0.47	0.44	0.44	0.44	0.49	0.49	0.48
0.15	0.15	0.15	0.14	0.14	0.15	0.15	0.16	0.16	0.17
0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.04	0.04	0.02
0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.21

**Table A-10 Average Shares of Labor Input**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1</b> agriculture	0.10	0.10	0.09	0.09	0.10	0.11	0.11	0.10
<b>2</b> coal mining	0.39	0.39	0.45	0.45	0.46	0.50	0.51	0.47
<b>3</b> Metal non-metal	0.46	0.47	0.41	0.40	0.41	0.40	0.42	0.17
<b>4</b> Oil and gas	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>5</b> construction	0.23	0.23	0.24	0.24	0.25	0.25	0.26	0.26
<b>6</b> food	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07
<b>7</b> textile	0.12	0.12	0.11	0.12	0.12	0.13	0.14	0.13
<b>8</b> apparels	0.18	0.18	0.15	0.15	0.14	0.15	0.16	0.15
<b>9</b> lumber and wood	0.09	0.09	0.10	0.10	0.11	0.12	0.13	0.13
<b>10</b> Furniture	0.14	0.12	0.13	0.13	0.13	0.13	0.13	0.17
<b>11</b> paper allied	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.13
<b>12</b> printing,publishing,allied	0.24	0.24	0.25	0.25	0.23	0.24	0.26	0.26
<b>13</b> chemicals	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.10
<b>14</b> petroleum products	0.02	0.02	0.02	0.02	0.03	0.04	0.03	0.04
<b>15</b> leather	0.16	0.14	0.14	0.12	0.13	0.13	0.14	0.20
<b>16</b> stone,clay,glass	0.13	0.14	0.14	0.14	0.15	0.16	0.17	0.18
<b>17</b> primary metal	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07
<b>18</b> fabricated metal	0.15	0.15	0.16	0.15	0.16	0.16	0.17	0.18
<b>19</b> Machinery	0.16	0.16	0.14	0.15	0.16	0.17	0.17	0.18
<b>20</b> electrical machinery	0.11	0.10	0.13	0.13	0.13	0.13	0.14	0.14
<b>21</b> Motor	0.12	0.12	0.12	0.11	0.11	0.11	0.12	0.10
<b>22</b> transportation equip.	0.18	0.18	0.17	0.16	0.19	0.19	0.15	0.17
<b>23</b> instrument	0.16	0.15	0.17	0.16	0.17	0.17	0.18	0.18
<b>24</b> rubber	0.21	0.20	0.21	0.21	0.23	0.23	0.23	0.14
<b>25</b> misc.manufacturing	0.15	0.15	0.18	0.19	0.19	0.19	0.20	0.19
<b>26</b> transportation	0.25	0.26	0.25	0.25	0.24	0.25	0.25	0.29
<b>27</b> communication	0.28	0.29	0.25	0.26	0.25	0.25	0.26	0.30
<b>28</b> electric utility	0.10	0.10	0.09	0.09	0.08	0.08	0.09	0.09
<b>29</b> gas utility	0.12	0.12	0.14	0.14	0.15	0.15	0.15	0.14
<b>30</b> trade	0.18	0.19	0.18	0.18	0.18	0.20	0.20	0.19
<b>31</b> Finance and real estate	0.25	0.25	0.22	0.22	0.22	0.22	0.23	0.23
<b>32</b> other private service	0.48	0.49	0.57	0.57	0.57	0.58	0.59	0.59
<b>33</b> Public service	0.51	0.53	0.55	0.50	0.50	0.51	0.47	0.56
<b>Total</b>	0.18	0.18	0.19	0.18	0.19	0.19	0.20	0.19

1992	1993	1994	1995	1996	1997	1998	1999	2000	Average rate
0.11	0.12	0.13	0.09	0.08	0.08	0.08	0.08	0.10	0.11
0.48	0.47	0.50	0.58	0.57	0.57	0.53	0.52	0.49	0.48
0.17	0.16	0.18	0.23	0.22	0.22	0.21	0.21	0.29	0.17
0.03	0.03	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.27	0.26	0.27	0.25	0.24	0.24	0.28	0.27	0.25	0.27
0.07	0.07	0.08	0.09	0.09	0.09	0.08	0.07	0.07	0.07
0.14	0.14	0.15	0.17	0.17	0.17	0.14	0.13	0.14	0.14
0.17	0.18	0.21	0.20	0.20	0.20	0.18	0.16	0.17	0.17
0.13	0.14	0.15	0.17	0.16	0.16	0.13	0.13	0.13	0.13
0.17	0.16	0.18	0.21	0.21	0.21	0.21	0.20	0.17	0.17
0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.11	0.12	0.13
0.28	0.27	0.28	0.29	0.28	0.28	0.27	0.26	0.26	0.28
0.11	0.10	0.11	0.11	0.10	0.10	0.09	0.08	0.10	0.11
0.05	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.05
0.21	0.19	0.20	0.19	0.19	0.19	0.20	0.17	0.17	0.21
0.19	0.18	0.19	0.18	0.18	0.18	0.17	0.16	0.17	0.19
0.08	0.07	0.07	0.08	0.08	0.08	0.06	0.06	0.06	0.08
0.18	0.18	0.18	0.21	0.21	0.21	0.20	0.19	0.18	0.18
0.19	0.18	0.19	0.18	0.18	0.18	0.17	0.16	0.17	0.19
0.14	0.14	0.14	0.12	0.11	0.11	0.10	0.10	0.12	0.14
0.10	0.10	0.13	0.13	0.13	0.13	0.14	0.13	0.12	0.10
0.17	0.17	0.20	0.19	0.19	0.19	0.17	0.16	0.18	0.17
0.19	0.16	0.17	0.18	0.17	0.17	0.17	0.16	0.17	0.19
0.15	0.14	0.15	0.16	0.16	0.16	0.15	0.14	0.18	0.15
0.20	0.19	0.20	0.22	0.21	0.21	0.22	0.21	0.19	0.20
0.29	0.27	0.29	0.30	0.28	0.28	0.24	0.23	0.27	0.29
0.30	0.29	0.31	0.33	0.31	0.31	0.27	0.26	0.28	0.30
0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09
0.16	0.14	0.14	0.14	0.13	0.13	0.10	0.09	0.13	0.16
0.19	0.31	0.32	0.28	0.27	0.27	0.27	0.26	0.23	0.19
0.24	0.24	0.24	0.26	0.25	0.25	0.24	0.24	0.24	0.24
0.60	0.59	0.60	0.59	0.58	0.57	0.55	0.55	0.57	0.60
0.57	0.60	0.41	0.62	0.61	0.61	0.60	0.59	0.55	0.57
0.20	0.20	0.20	0.21	0.21	0.21	0.20	0.19	0.19	0.20

**Table A-11 Average Shares of Energy Input**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 agriculture</b>	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>2 coal mining</b>	0.12	0.11	0.10	0.09	0.08	0.06	0.06	0.05
<b>3 Metal non-metal</b>	0.11	0.10	0.13	0.12	0.11	0.10	0.09	0.06
<b>4 Oil and gas</b>	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
<b>5 construction</b>	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02
<b>6 food</b>	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
<b>7 textile</b>	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03
<b>8 apparels</b>	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
<b>9 lumber and wood</b>	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.02
<b>10 Furniture</b>	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02
<b>11 paper allied</b>	0.08	0.07	0.08	0.07	0.06	0.06	0.05	0.04
<b>12 printing,publishing,allied</b>	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01
<b>13 chemicals</b>	0.13	0.12	0.12	0.10	0.10	0.08	0.08	0.09
<b>14 petroleum products</b>	0.81	0.79	0.79	0.61	0.67	0.60	0.64	0.74
<b>15 leather</b>	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
<b>16 stone,clay,glass</b>	0.22	0.21	0.19	0.16	0.16	0.14	0.13	0.10
<b>17 primary metal</b>	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.07
<b>18 fabricated metal</b>	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.02
<b>19 Machinery</b>	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.01
<b>20 electrical machinery</b>	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01
<b>21 Motor</b>	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.01
<b>22 transportation equip.</b>	0.03	0.03	0.02	0.01	0.02	0.02	0.01	0.01
<b>23 instrument</b>	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.01
<b>24 rubber</b>	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02
<b>25 misc.manufacturing</b>	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02
<b>26 transportation</b>	0.26	0.24	0.26	0.20	0.20	0.17	0.16	0.15
<b>27 communication</b>	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02
<b>28 electric utility</b>	0.46	0.43	0.28	0.20	0.17	0.19	0.20	0.27
<b>29 gas utility</b>	0.46	0.44	0.47	0.45	0.46	0.45	0.46	0.51
<b>30 trade</b>	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.04
<b>31 Finance and real estate</b>	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
<b>32 other private service</b>	0.05	0.04	0.05	0.04	0.04	0.03	0.03	0.03
<b>33 Public service</b>	0.08	0.08	0.07	0.06	0.06	0.06	0.05	0.03
<b>Total</b>	0.11	0.11	0.10	0.09	0.09	0.08	0.08	0.08

1992	1993	1994	1995	1996	1997	1998	1999	2000	Average rate
0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02
0.05	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.07	0.05
0.07	0.06	0.06	0.07	0.07	0.07	0.09	0.09	0.09	0.07
0.13	0.14	0.03	0.14	0.16	0.17	0.14	0.14	0.14	0.13
0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02
0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01
0.03	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.03
0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01
0.02	0.03	0.03	0.02	0.02	0.03	0.04	0.04	0.03	0.02
0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02
0.04	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.04
0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01
0.09	0.11	0.09	0.10	0.11	0.11	0.14	0.14	0.11	0.09
0.68	0.58	0.59	0.57	0.58	0.59	0.59	0.61	0.66	0.68
0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01
0.09	0.09	0.08	0.08	0.08	0.09	0.11	0.12	0.13	0.09
0.07	0.07	0.06	0.06	0.07	0.07	0.08	0.08	0.08	0.07
0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02
0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01
0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02
0.15	0.16	0.14	0.12	0.14	0.14	0.14	0.15	0.17	0.15
0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.27	0.31	0.30	0.29	0.31	0.32	0.30	0.29	0.29	0.27
0.48	0.54	0.53	0.54	0.56	0.56	0.59	0.61	0.51	0.48
0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04
0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
0.03	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03
0.03	0.03	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.03
0.08	0.08	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.08

**Table A-12 Average Shares of Material Input**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 agriculture</b>	0.28	0.28	0.31	0.32	0.30	0.29	0.28	0.31
<b>2 coal mining</b>	0.25	0.26	0.30	0.31	0.29	0.25	0.25	0.29
<b>3 Metal non-metal</b>	0.15	0.15	0.21	0.22	0.23	0.24	0.23	0.23
<b>4 Oil and gas</b>	0.80	0.80	0.80	0.80	0.80	0.80	0.81	0.80
<b>5 construction</b>	0.54	0.54	0.54	0.56	0.55	0.54	0.54	0.52
<b>6 food</b>	0.73	0.73	0.74	0.74	0.73	0.73	0.71	0.74
<b>7 textile</b>	0.71	0.72	0.72	0.71	0.70	0.70	0.69	0.74
<b>8 apparels</b>	0.73	0.73	0.76	0.76	0.75	0.73	0.72	0.77
<b>9 lumber and wood</b>	0.77	0.78	0.79	0.78	0.77	0.76	0.75	0.76
<b>10 Furniture</b>	0.64	0.68	0.72	0.72	0.70	0.71	0.72	0.66
<b>11 paper allied</b>	0.69	0.70	0.67	0.67	0.69	0.70	0.69	0.68
<b>12 printing,publishing,allied</b>	0.61	0.61	0.60	0.62	0.63	0.62	0.61	0.60
<b>13 chemicals</b>	0.61	0.62	0.61	0.62	0.63	0.64	0.63	0.63
<b>14 petroleum products</b>	0.04	0.04	0.05	0.07	0.07	0.09	0.08	0.09
<b>15 leather</b>	0.77	0.80	0.75	0.79	0.77	0.79	0.77	0.72
<b>16 stone,clay,glass</b>	0.47	0.47	0.47	0.48	0.48	0.49	0.50	0.50
<b>17 primary metal</b>	0.73	0.74	0.73	0.73	0.75	0.74	0.74	0.73
<b>18 fabricated metal</b>	0.70	0.70	0.65	0.65	0.66	0.67	0.66	0.65
<b>19 Machinery</b>	0.66	0.66	0.66	0.65	0.64	0.64	0.65	0.64
<b>20 electrical machinery</b>	0.71	0.72	0.69	0.69	0.69	0.70	0.69	0.71
<b>21 Motor</b>	0.62	0.62	0.67	0.68	0.70	0.69	0.68	0.64
<b>22 transportation equip.</b>	0.63	0.63	0.68	0.71	0.83	0.79	0.83	0.69
<b>23 instrument</b>	0.68	0.71	0.65	0.67	0.65	0.66	0.65	0.67
<b>24 rubber</b>	0.63	0.64	0.64	0.64	0.63	0.62	0.63	0.67
<b>25 misc.manufacturing</b>	0.63	0.64	0.64	0.63	0.63	0.64	0.63	0.62
<b>26 transportation</b>	0.23	0.23	0.27	0.29	0.32	0.32	0.35	0.32
<b>27 communication</b>	0.14	0.14	0.11	0.11	0.11	0.11	0.11	0.13
<b>28 electric utility</b>	0.08	0.09	0.09	0.10	0.12	0.13	0.14	0.15
<b>29 gas utility</b>	0.20	0.21	0.16	0.15	0.16	0.17	0.17	0.14
<b>30 trade</b>	0.24	0.25	0.23	0.22	0.23	0.24	0.24	0.25
<b>31 Finance and real estate</b>	0.20	0.21	0.26	0.26	0.25	0.26	0.26	0.27
<b>32 other private service</b>	0.25	0.25	0.21	0.20	0.21	0.21	0.20	0.22
<b>33 Public service</b>	0.40	0.38	0.37	0.42	0.41	0.40	0.47	0.39
<b>Total</b>	0.50	0.51	0.51	0.51	0.52	0.52	0.52	0.51

1992	1993	1994	1995	1996	1997	1998	1999	2000	Average rate
0.31	0.32	0.32	0.32	0.32	0.32	0.40	0.44	0.32	0.31
0.29	0.32	0.30	0.45	0.46	0.46	0.61	0.61	0.35	0.29
0.24	0.23	0.22	0.21	0.20	0.20	0.19	0.20	0.21	0.24
0.81	0.80	0.96	0.80	0.78	0.77	0.80	0.81	0.81	0.81
0.51	0.51	0.52	0.57	0.57	0.57	0.51	0.52	0.54	0.51
0.73	0.71	0.70	0.70	0.70	0.70	0.70	0.74	0.72	0.73
0.72	0.70	0.68	0.68	0.68	0.67	0.62	0.64	0.69	0.72
0.75	0.71	0.68	0.64	0.63	0.62	0.63	0.66	0.71	0.75
0.75	0.74	0.72	0.70	0.69	0.69	0.70	0.71	0.74	0.75
0.67	0.66	0.65	0.61	0.61	0.61	0.64	0.65	0.67	0.67
0.67	0.67	0.67	0.66	0.65	0.65	0.66	0.68	0.67	0.67
0.58	0.58	0.58	0.56	0.56	0.56	0.59	0.61	0.59	0.58
0.62	0.61	0.62	0.61	0.60	0.60	0.60	0.61	0.62	0.62
0.11	0.09	0.09	0.06	0.06	0.06	0.06	0.06	0.07	0.11
0.71	0.72	0.71	0.70	0.69	0.69	0.67	0.72	0.73	0.71
0.49	0.52	0.52	0.55	0.54	0.54	0.51	0.51	0.50	0.49
0.72	0.72	0.73	0.71	0.70	0.70	0.70	0.71	0.72	0.72
0.64	0.64	0.64	0.64	0.63	0.63	0.60	0.61	0.65	0.64
0.63	0.64	0.64	0.64	0.64	0.63	0.66	0.67	0.65	0.63
0.70	0.67	0.67	0.65	0.66	0.66	0.71	0.72	0.69	0.70
0.64	0.68	0.58	0.69	0.69	0.69	0.73	0.75	0.67	0.64
0.68	0.69	0.66	0.68	0.68	0.68	0.59	0.61	0.69	0.68
0.66	0.68	0.68	0.65	0.66	0.66	0.67	0.69	0.67	0.66
0.65	0.65	0.65	0.65	0.65	0.65	0.67	0.69	0.65	0.65
0.61	0.60	0.59	0.58	0.58	0.58	0.56	0.57	0.61	0.61
0.32	0.34	0.33	0.36	0.36	0.36	0.39	0.39	0.32	0.32
0.13	0.15	0.16	0.16	0.17	0.17	0.20	0.21	0.14	0.13
0.15	0.16	0.17	0.17	0.16	0.16	0.17	0.17	0.14	0.15
0.15	0.14	0.15	0.14	0.13	0.13	0.09	0.09	0.15	0.15
0.26	0.27	0.28	0.29	0.30	0.30	0.32	0.33	0.26	0.26
0.28	0.26	0.27	0.28	0.29	0.29	0.25	0.25	0.26	0.28
0.22	0.23	0.23	0.24	0.25	0.25	0.25	0.26	0.23	0.22
0.38	0.35	0.56	0.32	0.32	0.32	0.32	0.32	0.38	0.38
0.51	0.51	0.51	0.51	0.50	0.50	0.51	0.52	0.51	0.51

**Table A-13 Capital Price Index**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1</b> agriculture	84	77	84	81	85	82	81	86
<b>2</b> coal mining	29	25	21	24	23	21	38	49
<b>3</b> Metal non-metal	15	14	17	16	19	22	58	63
<b>4</b> Oil and gas	0	0	0	0	0	0	62	67
<b>5</b> construction	175	174	190	195	189	171	155	142
<b>6</b> Food	96	91	95	92	94	92	91	97
<b>7</b> Textile	67	64	68	69	76	79	85	92
<b>8</b> Apparels	70	69	72	74	80	82	88	93
<b>9</b> lumber and wood	62	69	85	99	102	100	100	106
<b>10</b> Furniture	121	115	118	117	120	117	118	120
<b>11</b> paper allied	187	171	177	179	177	165	158	152
<b>12</b> Printing,publishing,allied	96	98	110	120	125	123	124	125
<b>13</b> chemicals	116	108	118	119	126	124	124	125
<b>14</b> petroleum products	148	138	142	145	143	132	125	121
<b>15</b> Leather	55	44	43	41	45	48	57	64
<b>16</b> stone,clay,glass	93	83	83	81	87	89	90	94
<b>17</b> Primary metal	100	97	102	105	109	107	112	116
<b>18</b> fabricated metal	154	145	151	150	149	141	140	138
<b>19</b> Machinery	91	82	80	77	83	84	90	95
<b>20</b> electrical machinery	218	196	190	181	177	163	155	147
<b>21</b> Motor	138	136	137	131	132	130	112	114
<b>22</b> transportation equip.	692	649	656	632	426	282	230	194
<b>23</b> instrument	139	122	120	115	121	118	119	119
<b>24</b> Rubber	160	150	162	166	165	153	139	135
<b>25</b> misc.manufacturing	107	101	105	107	110	107	107	109
<b>26</b> transportation	74	70	83	84	89	85	87	92
<b>27</b> communication	139	125	131	122	122	117	120	121
<b>28</b> electric utility	81	79	89	92	97	99	100	106
<b>29</b> gas utility	224	195	204	209	213	150	123	112
<b>30</b> Trade	176	174	192	197	190	170	156	146
<b>31</b> Finance and real estate	120	115	128	133	138	131	124	115
<b>32</b> other private service	159	147	159	157	157	146	139	133
<b>33</b> Public service	129	133	152	163	160	134	133	127
<b>Total</b>	<b>75</b>	<b>76</b>	<b>82</b>	<b>84</b>	<b>88</b>	<b>86</b>	<b>88</b>	<b>93</b>



1992	1993	1994	1995	1996	1997	1998	1999	2000	Average Growth rate(%)
89	92	95	100	105	110	107	104	104	1.38
58	69	82	100	123	165	156	148	145	10.15
66	72	83	100	153	240	259	272	284	18.59
71	77	81	100	118	156	146	138	133	0.00
127	117	108	100	94	87	82	79	79	-4.96
99	98	96	100	103	107	106	103	103	0.45
93	94	96	100	109	116	111	106	104	2.73
94	93	95	100	109	119	114	109	107	2.71
107	102	100	100	101	101	98	95	93	2.60
115	107	105	100	98	95	91	88	87	-2.04
136	121	109	100	94	88	85	82	81	-5.18
118	110	104	100	99	97	93	89	89	-0.46
119	112	107	100	98	90	86	82	80	-2.30
116	110	103	100	97	91	91	89	90	-3.09
69	74	84	100	128	181	175	168	165	6.84
94	95	97	100	103	103	100	97	97	0.23
111	106	103	100	101	98	95	92	91	-0.57
127	116	107	100	97	92	90	87	86	-3.63
96	96	97	100	109	118	116	113	113	1.35
133	120	109	100	97	93	92	89	90	-5.55
109	104	103	100	97	91	89	87	87	-2.89
159	132	115	100	90	80	79	77	77	-13.74
113	108	103	100	100	98	97	95	95	-2.37
126	116	109	100	96	87	84	81	79	-4.36
106	102	100	100	104	110	107	103	102	-0.29
93	94	97	100	106	107	104	100	99	1.87
117	113	103	100	96	93	86	80	78	-3.62
104	104	102	100	105	104	100	98	97	1.19
101	95	97	100	88	78	70	64	62	-7.98
132	119	108	100	94	86	85	82	82	-4.80
108	106	102	100	99	96	93	90	90	-1.79
123	115	107	100	96	88	86	83	83	-4.04
118	111	102	100	95	89	81	77	77	-3.25
94	95	96	100	102	101	101	101	104	2.03

**Table A-14 Labor Price Index**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 Agriculture</b>	37	42	43	43	50	53	61	81
<b>2 coal mining</b>	11	12	13	18	11	20	20	43
<b>3 Metal non-metal</b>	21	21	25	26	28	38	47	59
<b>4 Oil and gas</b>	0	0	0	0	0	0	0	0
<b>5 Construction</b>	58	54	57	68	82	97	92	96
<b>6 Food</b>	52	51	47	43	54	71	78	98
<b>7 Textile</b>	19	21	24	23	26	36	40	58
<b>8 Apparels</b>	19	17	19	19	25	30	34	53
<b>9 lumber and wood</b>	17	28	33	27	35	36	45	76
<b>10 Furniture</b>	31	35	43	45	61	67	61	81
<b>11 paper allied</b>	27	33	33	30	34	41	43	63
<b>12 printing,publishing,allied</b>	50	59	60	59	56	62	73	108
<b>13 Chemicals</b>	37	50	48	50	67	76	71	84
<b>14 petroleum products</b>	37	50	48	49	67	76	71	84
<b>15 Leather</b>	13	25	15	14	13	19	20	33
<b>16 stone,clay,glass</b>	54	57	41	46	47	59	62	97
<b>17 primary metal</b>	47	50	49	62	74	86	91	106
<b>18 fabricated metal</b>	45	34	33	36	47	55	54	97
<b>19 Machinery</b>	62	60	67	53	53	54	70	78
<b>20 electrical machinery</b>	41	48	48	33	33	45	51	67
<b>21 Motor</b>	46	60	52	44	50	65	68	89
<b>22 transportation equip.</b>	46	60	53	45	50	65	68	89
<b>23 Instrument</b>	37	47	44	28	52	42	65	101
<b>24 Rubber</b>	20	17	18	18	25	35	34	51
<b>25 misc.manufacturing</b>	16	17	16	13	20	23	33	51
<b>26 transportation</b>	43	49	44	49	61	61	71	96
<b>27 Communication</b>	43	48	44	48	61	60	72	95
<b>28 electric utility</b>	64	64	77	73	64	52	82	106
<b>29 gas utility</b>	64	64	77	73	64	52	82	106
<b>30 Trade</b>	123	127	124	101	87	92	112	157
<b>31 Finance and real estate</b>	124	144	141	96	134	139	130	123
<b>32 other private service</b>	77	79	73	69	67	77	79	88
<b>33 Public service</b>	37	42	43	43	50	53	61	82
<b>Total</b>	43	47	47	42	49	57	63	84

1992	1993	1994	1995	1996	1997	1998	1999	2000	Average Growth rate(%)
88	80	188	100	127	142	166	131	153	8.85
49	60	83	100	132	196	244	165	205	18.22
76	58	84	100	92	139	197	111	140	11.76
0	0	0	0	0	0	0	0	0	0.00
65	75	82	100	98	113	120	125	117	4.36
90	80	114	100	126	160	196	148	160	7.03
62	91	89	100	135	173	200	162	164	13.57
62	69	86	100	132	164	195	173	194	14.66
73	79	107	100	161	158	260	92	120	12.09
111	83	126	100	115	150	222	227	245	12.84
53	65	68	100	91	106	128	137	177	11.65
107	97	101	100	131	157	174	171	160	7.23
93	72	84	100	133	148	150	130	169	9.42
92	72	84	100	133	147	150	130	168	9.42
38	47	77	100	144	186	248	245	274	18.97
97	82	109	100	171	191	154	178	188	7.78
83	84	101	100	133	159	159	168	184	8.59
92	102	92	100	132	141	203	144	175	8.56
88	83	90	100	122	142	175	67	65	0.30
77	97	91	100	113	123	152	1661	1607	22.94
87	83	101	100	102	108	134	150	123	6.19
87	83	101	100	102	108	135	150	124	6.18
84	96	111	100	126	144	171	39	46	1.37
59	80	85	100	97	112	137	158	173	13.56
55	76	83	100	159	173	227	125	135	13.46
111	93	200	100	124	120	127	136	156	8.06
111	92	199	100	123	120	127	134	154	7.98
100	100	656	100	156	138	133	26	25	-6.00
100	100	656	100	156	138	133	26	25	-6.01
125	97	113	100	118	120	154	87	90	-1.95
102	101	101	100	117	122	121	109	121	-0.19
90	96	104	100	106	102	100	87	96	1.39
88	80	188	100	127	142	166	127	148	8.61
85	86	133	100	120	130	143	112	121	

**Table A-15 Energy Price Index**

	1984	1985	1986	1987	1988	1989	1990	1991
1 Agriculture	84	88	81	81	79	78	79	83
2 coal mining	97	101	96	95	91	86	85	87
3 Metal non-metal	90	95	89	88	85	82	81	84
4 Oil and gas	80	85	85	86	84	83	84	88
5 Construction	87	89	81	82	79	77	79	83
6 Food	91	95	90	89	86	83	82	85
7 Textile	95	99	94	93	89	85	83	86
8 Apparels	94	99	95	92	89	85	83	86
9 lumber and wood	91	99	95	93	89	84	83	86
10 Furniture	93	99	95	93	89	85	82	85
11 paper allied	91	96	91	90	88	84	82	85
12 Printing,publishing,allied	91	97	92	91	87	83	81	85
13 Chemicals	90	93	87	86	84	81	80	84
14 petroleum products	66	71	75	78	80	82	86	93
15 Leather	91	94	88	87	84	81	82	85
16 stone,clay,glass	81	86	85	85	83	82	82	86
17 Primary metal	90	94	88	87	84	81	80	84
18 fabricated metal	92	97	92	90	87	83	82	86
19 Machinery	92	95	89	89	86	82	82	85
20 electrical machinery	93	97	92	91	87	83	82	86
21 Motor	94	96	91	90	87	83	82	85
22 transportation equip.	92	98	93	91	88	84	82	85
23 Instrument	94	99	94	92	89	84	83	86
24 Rubber	92	95	90	89	86	82	82	86
25 misc.manufacturing	92	96	90	89	86	83	82	85
26 transportation	85	88	80	81	78	77	78	82
27 Communication	92	97	92	91	87	83	83	86
28 electric utility	83	83	78	79	79	80	83	86
29 gas utility	95	100	95	93	89	85	85	89
30 Trade	89	94	88	87	84	81	81	84
31 Finance and real estate	92	99	95	93	89	84	83	86
32 other private service	90	97	92	90	87	83	82	85
33 Public service	83	91	84	84	81	79	79	83
	78	83	82	83	82	81	82	87

1992	1993	1994	1995	1996	1997	1998	1999	2000
85	87	91	100	102	109	115	121	127
93	94	96	100	104	109	114	118	123
88	90	93	100	103	109	114	120	125
92	93	96	100	102	106	109	113	116
85	87	91	100	102	109	115	121	126
89	91	94	100	103	109	114	119	125
90	92	95	100	103	109	114	119	124
91	93	96	100	103	109	114	120	127
90	92	95	100	103	109	114	119	124
90	91	94	100	103	109	114	120	126
90	92	95	100	104	109	114	119	124
89	90	93	100	103	109	114	119	125
86	88	92	100	102	109	115	121	126
94	93	98	100	101	102	104	105	107
90	91	94	100	103	109	114	119	125
89	90	94	100	103	108	113	119	124
87	90	93	100	103	109	114	119	124
90	91	94	100	103	109	114	119	125
89	91	94	100	103	109	114	119	125
90	92	95	100	104	109	114	119	124
89	90	93	100	104	109	114	119	125
89	90	93	100	103	109	114	120	125
91	92	95	100	104	109	114	119	124
90	90	94	100	103	109	114	119	124
89	91	94	100	103	109	114	119	124
84	86	90	100	102	109	115	121	127
91	92	95	100	104	109	114	119	123
90	91	95	100	103	108	110	114	119
93	93	97	100	102	105	106	108	109
88	89	92	100	103	109	114	120	125
91	92	95	100	104	109	114	119	124
89	90	93	100	103	109	114	119	125
86	89	92	100	103	109	114	120	125
90	91	94	100	102	107	110	114	117

**Table A-16 Material Price Index**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 Agriculture</b>	62	65	64	67	70	73	78	84
<b>2 coal mining</b>	57	60	61	63	65	67	73	79
<b>3 Metal non-metal</b>	58	61	62	64	66	67	73	79
<b>4 Oil and gas</b>	59	61	62	64	66	70	72	78
<b>5 construction</b>	62	63	63	65	67	69	73	81
<b>6 food</b>	56	59	59	63	68	71	78	83
<b>7 textile</b>	57	60	60	63	64	65	68	74
<b>8 apparels</b>	51	53	56	59	61	62	65	71
<b>9 lumber and wood</b>	56	58	58	62	67	69	75	80
<b>10 Furniture</b>	61	63	64	66	68	70	72	78
<b>11 paper allied</b>	57	60	61	62	63	65	67	73
<b>12 printing,publishing,allied</b>	58	60	60	61	63	65	67	74
<b>13 chemicals</b>	73	76	72	73	73	73	75	81
<b>14 petroleum products</b>	55	61	61	62	64	66	72	78
<b>15 leather</b>	55	64	65	67	69	71	69	76
<b>16 stone,clay,glass</b>	64	69	70	70	72	74	79	87
<b>17 primary metal</b>	62	65	66	68	71	72	73	78
<b>18 fabricated metal</b>	61	64	64	66	69	70	71	77
<b>19 Machinery</b>	60	62	63	64	66	67	70	76
<b>20 electrical machinery</b>	61	62	63	64	65	67	70	76
<b>21 Motor</b>	67	66	67	70	71	71	84	89
<b>22 transportation equip.</b>	61	63	63	65	67	74	77	82
<b>23 instrument</b>	59	62	63	64	66	67	70	77
<b>24 rubber</b>	58	62	63	65	66	68	76	81
<b>25 misc.manufacturing</b>	59	60	61	64	65	67	71	77
<b>26 transportation</b>	57	62	63	65	67	71	74	81
<b>27 communication</b>	60	60	61	62	64	66	69	76
<b>28 electric utility</b>	53	57	58	57	60	63	69	77
<b>29 gas utility</b>	61	57	60	60	62	65	70	76
<b>30 trade</b>	51	54	56	58	61	63	69	76
<b>31 Finance and real estate</b>	46	51	52	54	58	61	68	75
<b>32 other private service</b>	57	58	59	62	65	66	71	77
<b>33 Public service</b>	61	62	63	64	67	74	73	79
	59	61	62	64	67	69	73	79

1992	1993	1994	1995	1996	1997	1998	1999	2000
86	90	95	100	104	107	112	116	119
83	88	93	100	104	107	113	117	121
84	88	93	100	104	108	112	116	123
83	88	99	100	103	104	108	112	116
86	89	94	100	103	104	107	110	113
85	89	96	100	103	103	106	109	111
79	84	91	100	104	108	113	118	124
78	84	92	100	105	108	113	119	124
82	88	93	100	104	105	109	113	117
82	88	92	100	104	107	111	116	120
79	85	92	100	104	105	109	114	118
79	85	92	100	104	105	110	115	119
84	87	91	100	102	108	114	119	125
83	87	93	100	103	105	110	114	118
81	86	93	100	105	108	113	117	122
91	93	96	100	102	105	108	111	114
83	88	93	100	102	105	108	112	116
82	87	92	100	102	103	107	110	113
81	86	92	100	101	100	103	106	108
81	86	92	100	101	100	102	104	106
92	95	95	100	103	106	109	112	114
87	90	94	100	102	102	105	107	110
82	87	93	100	103	103	105	107	109
85	88	92	100	102	107	112	117	121
82	87	92	100	103	106	110	115	118
86	89	94	100	103	106	109	113	115
81	86	93	100	103	106	109	112	115
83	87	93	100	104	108	113	117	123
82	86	93	100	104	107	111	116	122
82	87	94	100	104	108	113	117	120
82	86	93	100	105	109	115	119	125
82	86	92	100	104	108	113	118	123
84	89	98	100	103	105	109	113	116
84	88	93	100	103	105	108	112	115

**Table A-17 Price Index of Output by 33 Industries(Korea : 1984-2000)**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 agriculture</b>	0.66	0.69	0.68	0.70	0.71	0.74	0.79	0.84
<b>2 coal mining</b>	0.71	0.72	0.70	0.72	0.72	0.72	0.76	0.81
<b>3 Metal non-metal</b>	0.74	0.77	0.73	0.74	0.73	0.72	0.76	0.81
<b>4 Oil and gas</b>	0.64	0.67	0.68	0.69	0.70	0.73	0.75	0.81
<b>5 construction</b>	0.65	0.67	0.66	0.67	0.69	0.70	0.75	0.82
<b>6 food</b>	0.59	0.61	0.61	0.65	0.68	0.71	0.78	0.83
<b>7 textile</b>	0.62	0.65	0.64	0.66	0.67	0.67	0.69	0.75
<b>8 apparels</b>	0.53	0.55	0.57	0.60	0.61	0.63	0.65	0.72
<b>9 lumber and wood</b>	0.60	0.60	0.60	0.64	0.68	0.70	0.75	0.80
<b>10 Furniture</b>	0.65	0.66	0.66	0.68	0.70	0.71	0.73	0.79
<b>11 paper allied</b>	0.62	0.65	0.65	0.65	0.66	0.66	0.68	0.75
<b>12 printing,publishing,allied</b>	0.61	0.62	0.62	0.63	0.64	0.65	0.68	0.74
<b>13 chemicals</b>	0.79	0.82	0.76	0.76	0.75	0.74	0.76	0.82
<b>14 petroleum products</b>	0.66	0.71	0.74	0.76	0.78	0.80	0.85	0.91
<b>15 leather</b>	0.58	0.67	0.68	0.69	0.71	0.72	0.71	0.77
<b>16 stone,clay,glass</b>	0.72	0.76	0.75	0.76	0.76	0.76	0.81	0.88
<b>17 primary metal</b>	0.66	0.69	0.69	0.70	0.72	0.73	0.74	0.79
<b>18 fabricated metal</b>	0.64	0.67	0.66	0.68	0.70	0.71	0.72	0.77
<b>19 Machinery</b>	0.62	0.64	0.64	0.65	0.67	0.68	0.70	0.76
<b>20 electrical machinery</b>	0.63	0.64	0.64	0.65	0.66	0.68	0.70	0.77
<b>21 Motor</b>	0.72	0.70	0.70	0.73	0.74	0.73	0.87	0.91
<b>22 transportation equip.</b>	0.64	0.66	0.65	0.68	0.70	0.77	0.79	0.84
<b>23 instrument</b>	0.62	0.65	0.65	0.66	0.67	0.68	0.71	0.78
<b>24 rubber</b>	0.63	0.67	0.66	0.68	0.68	0.70	0.76	0.82
<b>25 misc.manufacturing</b>	0.63	0.64	0.64	0.66	0.67	0.68	0.72	0.78
<b>26 transportation</b>	0.73	0.76	0.71	0.72	0.73	0.74	0.76	0.82
<b>27 communication</b>	0.67	0.68	0.68	0.68	0.69	0.69	0.71	0.77
<b>28 electric utility</b>	0.78	0.78	0.72	0.71	0.72	0.73	0.78	0.83
<b>29 gas utility</b>	0.86	0.90	0.88	0.86	0.82	0.80	0.82	0.87
<b>30 trade</b>	0.62	0.64	0.63	0.64	0.65	0.66	0.70	0.77
<b>31 Finance and real estate</b>	0.52	0.57	0.57	0.58	0.61	0.63	0.69	0.76
<b>32 other private service</b>	0.65	0.69	0.67	0.69	0.69	0.70	0.72	0.78
<b>33 Public service</b>	0.69	0.69	0.69	0.69	0.71	0.77	0.75	0.81
<b>Total</b>	0.66	0.68	0.67	0.69	0.70	0.71	0.74	0.80



<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>Growth Rate(%) (1984-2000)</b>
0.87	0.90	0.95	1.00	1.04	1.07	1.12	1.17	1.21	3.83
0.85	0.89	0.94	1.00	1.04	1.08	1.13	1.18	1.22	3.41
0.86	0.89	0.93	1.00	1.04	1.08	1.13	1.17	1.24	3.29
0.85	0.89	0.99	1.00	1.03	1.05	1.09	1.12	1.17	3.81
0.87	0.90	0.94	1.00	1.03	1.04	1.08	1.11	1.15	3.53
0.85	0.89	0.96	1.00	1.03	1.04	1.06	1.09	1.12	4.11
0.80	0.85	0.92	1.00	1.04	1.08	1.13	1.19	1.24	4.36
0.78	0.84	0.92	1.00	1.05	1.08	1.13	1.19	1.24	5.32
0.83	0.88	0.93	1.00	1.04	1.05	1.10	1.14	1.18	4.23
0.83	0.88	0.92	1.00	1.04	1.07	1.12	1.16	1.21	3.92
0.80	0.85	0.92	1.00	1.04	1.05	1.10	1.14	1.19	4.10
0.80	0.85	0.92	1.00	1.04	1.05	1.11	1.15	1.19	4.22
0.85	0.87	0.92	1.00	1.02	1.08	1.14	1.20	1.26	3.00
0.93	0.93	0.97	1.00	1.01	1.03	1.05	1.06	1.08	3.38
0.82	0.87	0.93	1.00	1.05	1.08	1.13	1.17	1.22	4.57
0.92	0.93	0.96	1.00	1.02	1.05	1.09	1.13	1.17	3.09
0.84	0.88	0.93	1.00	1.02	1.05	1.09	1.13	1.17	3.53
0.83	0.87	0.93	1.00	1.02	1.04	1.08	1.11	1.15	3.63
0.81	0.86	0.92	1.00	1.01	1.01	1.04	1.07	1.09	3.52
0.82	0.86	0.92	1.00	1.01	1.00	1.02	1.05	1.07	3.31
0.93	0.96	0.96	1.00	1.03	1.06	1.09	1.12	1.15	2.97
0.88	0.91	0.94	1.00	1.02	1.03	1.05	1.08	1.12	3.38
0.83	0.87	0.93	1.00	1.03	1.04	1.06	1.09	1.11	3.63
0.86	0.88	0.92	1.00	1.02	1.07	1.12	1.17	1.22	4.11
0.83	0.87	0.92	1.00	1.03	1.06	1.11	1.15	1.19	3.94
0.86	0.89	0.93	1.00	1.03	1.07	1.11	1.16	1.20	3.09
0.82	0.87	0.94	1.00	1.04	1.06	1.10	1.13	1.16	3.48
0.88	0.90	0.94	1.00	1.03	1.08	1.11	1.16	1.21	2.74
0.91	0.92	0.96	1.00	1.02	1.05	1.07	1.10	1.11	1.82
0.83	0.87	0.93	1.00	1.04	1.08	1.13	1.18	1.21	4.16
0.83	0.87	0.93	1.00	1.05	1.09	1.15	1.20	1.25	5.33
0.83	0.87	0.93	1.00	1.04	1.08	1.14	1.19	1.24	4.07
0.85	0.89	0.98	1.00	1.03	1.06	1.11	1.14	1.18	3.36
0.85	0.88	0.94	1.00	1.03	1.06	1.10	1.14	1.18	3.70

**Table A-18 Price Index of Commodities from V-Table(Korea : 1984-2000)**

	1984	1985	1986	1987	1988	1989	1990	1991
<b>1 agriculture</b>	0.53	0.56	0.56	0.61	0.66	0.70	0.78	0.82
<b>2 coal mining</b>	0.65	0.70	0.74	0.77	0.80	0.82	0.87	0.94
<b>3 Metal non-metal</b>	0.65	0.70	0.74	0.77	0.80	0.82	0.87	0.94
<b>4 Oil and gas</b>	0.65	0.70	0.74	0.77	0.80	0.82	0.87	0.94
<b>5 construction</b>	0.45	0.47	0.48	0.49	0.53	0.58	0.67	0.78
<b>6 food</b>	0.71	0.75	0.76	0.76	0.78	0.82	0.87	0.91
<b>7 textile</b>	0.50	0.53	0.56	0.59	0.60	0.62	0.63	0.70
<b>8 apparels</b>	0.50	0.53	0.56	0.59	0.60	0.62	0.63	0.70
<b>9 lumber and wood</b>	0.63	0.65	0.66	0.70	0.73	0.72	0.73	0.77
<b>10 Furniture</b>	0.56	0.59	0.60	0.60	0.62	0.63	0.65	0.71
<b>11 paper allied</b>	0.56	0.59	0.60	0.60	0.62	0.63	0.65	0.71
<b>12 printing,publishing,allied</b>	0.56	0.59	0.60	0.60	0.62	0.63	0.65	0.71
<b>13 chemicals</b>	0.84	0.88	0.80	0.80	0.77	0.76	0.78	0.82
<b>14 petroleum products</b>	0.84	0.88	0.80	0.80	0.77	0.76	0.78	0.82
<b>15 leather</b>	0.50	0.53	0.56	0.59	0.60	0.62	0.63	0.70
<b>16 stone,clay,glass</b>	0.78	0.80	0.80	0.79	0.80	0.81	0.89	1.01
<b>17 primary metal</b>	0.63	0.65	0.66	0.68	0.71	0.72	0.72	0.77
<b>18 fabricated metal</b>	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.73
<b>19 Machinery</b>	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.73
<b>20 electrical machinery</b>	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.73
<b>21 Motor</b>	0.86	0.89	0.90	0.94	0.96	0.98	1.00	1.02
<b>22 transportation equip.</b>	0.86	0.89	0.90	0.94	0.96	0.98	1.00	1.02
<b>23 instrument</b>	0.60	0.61	0.62	0.63	0.64	0.65	0.67	0.73
<b>24 rubber</b>	0.78	0.80	0.80	0.79	0.80	0.81	0.89	1.01
<b>25 misc.manufacturing</b>	0.56	0.59	0.60	0.60	0.62	0.63	0.65	0.71
<b>26 transportation</b>	0.61	0.65	0.65	0.66	0.68	0.68	0.72	0.78
<b>27 communication</b>	0.61	0.65	0.65	0.66	0.68	0.68	0.72	0.78
<b>28 electric utility</b>	1.00	1.06	1.03	1.00	0.94	0.88	0.85	0.88
<b>29 gas utility</b>	1.00	1.06	1.03	1.00	0.94	0.88	0.85	0.88
<b>30 trade</b>	0.53	0.56	0.57	0.60	0.62	0.65	0.69	0.77
<b>31 Finance and real estate</b>	0.42	0.46	0.48	0.50	0.55	0.59	0.66	0.73
<b>32 other private service</b>	0.50	0.53	0.55	0.56	0.59	0.63	0.69	0.76
<b>33 Public service</b>	0.43	0.45	0.48	0.51	0.54	0.59	0.66	0.74
<b>Total</b>	0.57	0.59	0.60	0.63	0.65	0.67	0.72	0.78

1992	1993	1994	1995	1996	1997	1998	1999	2000	Growth Rate(%) (1984-2000)
0.83	0.87	0.96	1.00	1.02	1.00	1.02	1.03	1.05	4.31
0.95	0.94	0.99	1.00	1.01	1.02	1.03	1.04	1.05	3.36
0.95	0.94	0.99	1.00	1.01	1.02	1.03	1.04	1.05	3.36
0.95	0.94	0.99	1.00	1.01	1.02	1.03	1.04	1.05	3.36
0.85	0.89	0.93	1.00	1.05	1.12	1.18	1.25	1.31	6.52
0.93	0.95	0.98	1.00	1.07	1.09	1.13	1.17	1.21	3.48
0.76	0.82	0.91	1.00	1.05	1.08	1.14	1.20	1.25	5.67
0.76	0.82	0.91	1.00	1.05	1.08	1.14	1.20	1.25	5.67
0.80	0.88	0.90	1.00	1.07	1.08	1.14	1.20	1.26	4.35
0.77	0.83	0.91	1.00	1.04	1.04	1.08	1.12	1.16	4.52
0.77	0.83	0.91	1.00	1.04	1.04	1.08	1.12	1.16	4.52
0.77	0.83	0.91	1.00	1.04	1.04	1.08	1.12	1.16	4.52
0.84	0.86	0.90	1.00	1.02	1.09	1.15	1.21	1.28	2.65
0.84	0.86	0.90	1.00	1.02	1.09	1.15	1.21	1.28	2.65
0.76	0.82	0.91	1.00	1.05	1.08	1.14	1.20	1.25	5.67
1.05	1.01	0.98	1.00	1.03	1.06	1.08	1.11	1.13	2.35
0.82	0.87	0.93	1.00	1.02	1.04	1.08	1.12	1.16	3.78
0.78	0.84	0.91	1.00	1.00	0.95	0.97	0.98	1.00	3.15
0.78	0.84	0.91	1.00	1.00	0.95	0.97	0.98	1.00	3.15
0.78	0.84	0.91	1.00	1.00	0.95	0.97	0.98	1.00	3.15
1.01	1.01	1.01	1.00	1.04	1.09	1.11	1.14	1.17	2.04
1.01	1.01	1.01	1.00	1.04	1.09	1.11	1.14	1.17	2.04
0.78	0.84	0.91	1.00	1.00	0.95	0.97	0.98	1.00	3.15
1.05	1.01	0.98	1.00	1.03	1.06	1.08	1.11	1.13	2.35
0.77	0.83	0.91	1.00	1.04	1.04	1.08	1.12	1.16	4.52
0.83	0.89	0.95	1.00	1.00	1.01	1.03	1.06	1.08	3.66
0.83	0.89	0.95	1.00	1.00	1.01	1.03	1.06	1.08	3.66
0.94	0.95	0.97	1.00	1.04	1.09	1.13	1.17	1.21	1.47
0.94	0.95	0.97	1.00	1.04	1.09	1.13	1.17	1.21	1.47
0.84	0.88	0.94	1.00	1.04	1.08	1.12	1.17	1.21	5.15
0.80	0.85	0.94	1.00	1.06	1.11	1.17	1.23	1.29	7.03
0.84	0.89	0.94	1.00	1.08	1.14	1.21	1.27	1.34	6.28
0.81	0.84	0.91	1.00	1.07	1.13	1.20	1.27	1.35	7.16
0.84	0.88	0.93	1.00	1.04	1.07	1.12	1.16	1.21	3.94

**Table A-19 Relative Price Index of Gross Output Deflators by 33 Industries (Korea : 1984-2000)**

	1984	1985	1986	1987	1988	1989	1990	1991
1 agriculture	100.83	101.81	100.30	101.31	102.33	103.76	106.45	104.87
2 coal mining	107.92	106.00	104.59	104.38	102.95	100.67	101.67	100.60
3 Metal non-metal	112.13	112.35	109.00	108.49	105.28	101.40	101.87	101.33
4 Oil and gas	97.56	98.34	100.33	100.50	100.99	103.32	100.76	100.74
5 construction	99.45	97.77	97.70	97.96	98.42	98.36	100.27	102.37
6 food	89.23	89.56	90.57	94.22	98.14	100.50	104.98	103.36
7 textile	94.24	95.40	95.04	96.07	95.68	94.34	93.19	93.54
8 apparels	80.06	80.11	84.40	86.99	88.15	88.12	87.81	89.47
9 lumber and wood	92.02	88.60	89.28	93.35	97.12	98.53	101.22	99.62
10 Furniture	98.41	96.69	97.96	98.94	99.93	99.47	98.28	98.50
11 paper allied	94.01	95.89	96.16	94.39	94.02	93.24	92.01	92.86
12 printing,publishing,allied	93.09	91.64	92.20	91.57	92.25	91.88	91.21	92.27
13 chemicals	119.95	120.24	113.08	111.28	107.39	104.45	102.56	101.52
14 petroleum products	100.34	104.33	109.21	111.08	111.54	112.74	113.99	113.64
15 leather	88.31	98.37	100.56	99.82	101.26	101.93	94.77	95.47
16 stone,clay,glass	109.74	111.32	111.62	110.09	108.88	107.31	108.55	109.92
17 primary metal	101.30	101.00	102.33	102.33	103.87	102.91	99.32	98.22
18 fabricated metal	97.59	97.57	98.62	99.19	100.32	99.67	96.76	96.24
19 Machinery	94.70	93.34	95.19	95.00	95.63	95.78	94.65	95.13
20 electrical machinery	96.00	94.30	95.41	94.83	94.91	95.13	94.61	96.05
21 Motor	109.09	102.08	103.64	105.67	106.37	102.36	116.49	113.56
22 transportation equip.	98.04	96.09	97.09	98.54	99.71	108.72	105.51	104.72
23 instrument	93.91	95.95	97.11	96.41	96.13	96.20	95.52	97.07
24 rubber	96.45	98.85	97.67	98.39	97.60	97.85	102.60	102.50
25 misc.manufacturing	96.24	93.89	94.76	96.03	96.08	95.87	96.40	97.55
26 transportation	111.32	111.77	106.06	105.40	104.07	104.31	102.62	102.11
27 communication	101.76	100.10	101.48	99.43	98.56	97.53	94.98	95.90
28 electric utility	119.44	114.47	107.22	103.44	102.71	102.90	105.23	103.70
29 gas utility	130.38	132.57	130.66	125.16	118.17	112.69	110.09	107.83
30 trade	93.85	93.37	93.98	93.31	93.51	93.30	94.64	95.90
31 Finance and real estate	79.46	83.90	85.02	85.10	86.95	88.45	92.61	95.08
32 other private service	98.68	100.92	99.99	100.24	99.58	97.91	97.29	97.48
33 Public service	104.50	101.39	101.77	101.09	101.50	108.37	101.09	100.91
<b>Total</b>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

1992	1993	1994	1995	1996	1997	1998	1999	2000
102.53	101.84	101.45	100.00	101.10	101.46	102.22	102.32	102.37
100.32	100.84	100.00	100.00	101.10	101.73	103.03	103.48	103.78
101.38	100.55	99.70	100.00	100.61	102.18	102.59	103.03	105.47
100.75	100.73	105.68	100.00	99.88	99.24	99.12	98.63	98.85
102.94	101.38	99.98	100.00	99.66	98.71	98.26	97.77	97.24
100.57	100.82	102.20	100.00	100.27	98.12	96.74	95.88	94.71
94.46	96.00	97.82	100.00	100.49	101.78	103.05	104.13	105.45
92.14	95.17	97.95	100.00	101.64	101.92	103.10	104.22	105.16
97.49	99.37	99.79	100.00	100.72	99.30	99.98	99.78	100.33
98.23	100.02	97.95	100.00	101.15	100.89	101.43	101.98	102.21
94.49	96.71	98.24	100.00	100.71	99.40	99.87	100.29	100.53
94.11	96.13	98.07	100.00	100.80	99.62	100.58	101.04	101.10
99.96	98.82	97.81	100.00	99.22	102.21	103.68	105.00	106.44
109.64	105.02	103.84	100.00	98.08	97.09	95.05	93.19	91.42
96.53	98.16	99.17	100.00	101.49	101.85	102.49	103.03	103.84
108.58	105.18	102.03	100.00	99.26	99.51	99.42	99.19	98.91
99.04	99.62	99.43	100.00	98.88	99.33	99.08	99.12	99.07
97.49	98.40	98.83	100.00	98.76	98.10	97.75	97.47	97.14
96.26	97.44	98.45	100.00	98.22	95.47	94.54	93.69	92.77
97.11	97.90	98.60	100.00	98.11	94.68	93.07	91.94	90.91
110.43	108.27	102.04	100.00	99.92	100.10	99.30	98.59	97.54
104.01	103.05	100.06	100.00	98.85	97.19	95.68	94.89	94.74
98.16	98.56	98.97	100.00	99.68	98.02	96.21	95.58	94.17
101.21	100.00	98.31	100.00	99.16	101.20	101.99	102.75	103.65
98.39	98.43	98.65	100.00	100.24	100.45	100.73	101.12	100.83
101.29	100.47	99.48	100.00	99.57	101.20	100.92	101.35	101.33
97.35	98.62	99.88	100.00	100.29	100.43	99.69	99.34	98.39
103.65	101.96	100.53	100.00	99.98	101.97	101.33	101.77	102.86
107.03	104.21	102.52	100.00	99.14	99.63	97.61	96.20	94.45
97.64	98.52	99.82	100.00	100.92	102.11	103.16	103.66	102.97
97.77	98.41	99.63	100.00	101.60	103.14	104.35	105.05	106.17
98.34	98.43	98.88	100.00	100.74	102.18	103.44	104.25	104.95
100.71	100.95	104.25	100.00	99.77	99.80	100.58	100.25	100.24
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

**Table A-20. Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

Gross Output 1983

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1230083	28952	1208	1	4471	7538931	607105	9	196825	21259	20186	27	8778	4	6103	319
2	8899	21	1044	1	323	512	728	59	3048	1	468	33	4343	821836	104	187682
3	2405	1	4	1	123072	9443	38	1	1	1	11494	1	152810	77	88	342286
4	1	1	1	1	1	1	1	1	1	1	1	1	1	5758919	1	1
5	34199	667	1273	1	17389	2418	4084	19730	287	176	343	344	5883	1839	225	2247
6	1186814	1	1	1	16	1907692	1152	1	1715	64	4141	11	140050	97	200607	253
7	30402	146	569	1	11744	4449	2676034	1105774	485	3053	19673	2535	56431	478	41664	4966
8	1420	1	87	1	123	580	10030	22148	1	15	26	171	423	102	1075	128
9	863	1	5	1	262628	1053	357	1241	906	67613	562	10	268	188	165	562
10	19387	1	222	1	40124	8713	2951	9	1	4349	284	36	190	8	172	362
11	9211	230	1261	1	35505	190040	25670	15415	2823	4478	853724	355265	68179	188	9240	46796
12	2400	2237	1137	1	18208	21683	6496	6290	193	702	7096	55452	8707	1869	2261	4566
13	690010	17729	12847	1	260694	321203	1373298	29373	46806	28779	96120	78331	3682066	29350	92854	82607
14	281728	12400	31423	1	318570	202335	120998	17453	4708	6353	76360	17232	700874	404397	15035	215557
15	8	1	39	1	26	1286	3023	3723	65	836	262	207	10243	82	461743	255
16	5031	1536	679	1	1738414	99603	5348	691	528	9182	9538	193	125128	860	1255	406779
17	1391	14658	3896	1	1209163	4208	7232	682	696	2510	24242	19173	25944	6251	1305	42748
18	24399	4987	3254	1	685342	110657	13978	5732	1600	12179	5179	1149	91248	19164	7093	29772
19	15214	7866	9491	1	198676	26627	54523	4331	1310	2884	7289	1641	26780	9214	3616	21886
20	5318	12039	1718	1	528423	6745	6223	1530	709	393	2493	306	8371	4808	821	7871
21	873	7045	6462	1	19519	26435	7420	3034	826	2255	5096	5329	12488	2919	1572	12436
22	26373	102	78	1	20888	376	156	244	9	46	97	59	134	220	59	244
23	205	1	14	1	6369	854	630	77	11	45	146	28	1857	87	35	322
24	10017	1888	2271	1	9051	11514	16645	3169	376	20183	5485	602	15244	1670	12368	7159
25	10260	17	60	1	3612	38144	11658	40159	116	207	1336	283	10416	162	29593	466
26	74779	4394	4925	1	452341	182841	88996	25857	8008	7554	29998	20722	168141	144405	22268	137836
27	8728	2475	2987	1	47793	34734	25194	8609	637	3406	7657	14785	25390	5295	4398	14657
28	3721	52582	25448	1	53791	141257	248160	21564	14551	6648	65261	11545	463993	28251	12454	239964
29	2220	377	1263	1	5109	23547	15350	7405	2750	2400	4572	2025	30529	2911	1685	3447
30	161801	15418	8866	1	640853	501874	154282	85464	18473	34147	79282	37542	509025	23620	100864	76527
31	107674	15407	10820	1	274645	112643	181522	53043	16961	9298	39871	19529	160849	60449	27786	78486
32	41137	5602	6752	1	450782	179749	77556	32695	2527	15456	21175	31491	113047	24776	23136	27018
33	22792	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	1272517	220161	253330	1	2983705	843876	928865	367874	36844	53192	187064	255711	795295	158404	216335	388231
rK	8072682	133905	154227	1	2597592	3072733	831738	128423	27385	70340	227798	128070	1545854	1199793	62151	509949

Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

Gross Output 1983

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
337	625	178	66	52	188	40	202393	8944	198	1	1	14	7812	818	16978	47677
11083	1113	1193	636	211	57	81	355	454	37	1	133396	1	2580	84	3802	68645
465343	1479	1089	4786	684	70	351	121	1158	4969	1	1	1	1	1	982	95
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31779	520	3410	4922	2556	4308	469	1107	1622	9004	5047	21602	2816	78557	417136	64267	318133
14	34	8	508	1	2	1	1	4639	1	1	1	1	1620	1	206	2733
1117	6531	4880	10440	6279	2718	1066	156643	160385	18835	858	85	69	17845	2756	17077	5830
540	89	90	180	56	29	12	42	1081	6339	711	27	277	519	1	4262	78
236	16747	2259	10854	737	1928	69	181	2234	1078	1	1	1	2498	3962	4670	643
1336	700	170	1344	50	1232	23	35	1480	1291	2	1	8	16088	1008	27051	207
1587	10868	2841	59595	2082	4222	737	21468	16523	4868	320	57	1296	204095	2298	23515	237
4316	5972	5711	11946	1234	4751	917	4421	10325	23138	13915	3093	2057	61896	51835	382294	85640
83235	100772	56880	426523	49749	70153	22693	220205	240224	27591	383	44457	24788	55772	3915	472701	82074
563848	69115	56253	70476	26900	47253	4954	32019	27836	2207075	23581	1561858	47683	620070	92703	258220	317580
1101	681	479	259	3284	194	62	47181	101321	188	402	1	54	116	1	1	350
135113	15372	13726	141351	12960	12731	6513	1004	23900	19020	4304	135	342	15284	3167	12959	4879
4502321	1187537	517975	574708	309687	413184	28214	5438	93242	10008	101	125	6696	13803	3828	10428	58977
41465	120588	104026	69966	36408	84013	9628	9749	34098	37509	888	3735	1220	51504	6933	18918	49565
108391	107850	864560	55863	241496	275702	4415	7322	5614	18277	1643	18671	4212	33300	4193	64675	214724
30978	13130	135354	2212806	36147	370010	22814	1312	13967	40667	24993	39042	2256	22827	15387	83880	136040
6495	5473	14750	8305	523564	13709	859	1903	3961	123500	1	2889	1	14355	5931	52704	109584
1623	74	1712	10084	122	216014	725	74	38	76986	27187	11	33	3463	771	25333	730757
668	641	14932	10289	731	6644	165959	194	354	1511	111	596	630	1106	550	48383	6820
2218	4688	35274	18310	39627	9940	790	31672	11783	124050	76	584	129	3489	365	14118	3648
381	1250	1440	24508	970	380	198	3706	63912	18420	42	1	11	35174	2806	50273	2490
136233	55663	63532	88956	29092	44000	5738	34492	25058	708023	33149	32859	1896	269219	61345	68540	81466
13514	13559	22000	33283	7729	11162	2642	4411	11442	74957	73335	5873	1521	468711	70697	126321	83707
383640	72371	66238	89426	53306	49748	9613	35424	25988	75389	23816	24970	111660	302617	99285	185725	87440
10148	3878	7636	16200	1636	1811	1153	1754	7060	5222	1051	836	1141	27729	6265	14739	5824
195230	185355	214729	396968	39465	151313	41230	81493	108862	199852	14006	51009	6778	457739	21011	193661	98332
127775	55277	67390	115975	47572	59713	13839	35371	51639	225802	5932	72924	6187	654855	469789	294428	62253
31857	45577	37628	105813	20563	45012	5477	16638	39447	128278	12989	3761	8669	264814	214505	414578	143006
1	1	1	1	1	1	1	1	1	49475	1	1	1	1	1	1	1
419201	406190	521412	677062	266061	516454	77618	292470	245259	2156046	444891	357198	41360	2159415	1763928	4774222	2960308
777128	276884	479780	984265	501509	439964	61139	162626	298323	2264702	847813	1374366	77993	5820536	3641312	2205268	91154

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1984**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1380828	32724	1478	0	3653	8578461	725233	12	346403	23306	23378	32	10442	5	5328	370
2	10280	24	1315	0	272	600	894	81	5519	1	557	39	5316	943171	94	224201
3	2813	1	6	0	104784	11197	47	1	2	1	13872	1	189442	90	80	414082
4	1	1	1	0	1	1	1	1	2	1	1	1	1	5876757	1	1
5	39146	768	1588	0	14486	2805	4975	27006	515	197	405	407	7136	2091	200	2660
6	1324692	1	1	0	13	2158415	1368	1	3002	70	4768	13	165657	107	174153	292
7	35577	172	726	0	10002	5278	3332460	1547342	890	3489	23751	3067	69980	555	37921	6010
8	928	1	62	0	58	384	6974	17305	1	10	18	115	293	66	546	87
9	1619	2	11	0	358697	2003	712	2785	2666	123918	1089	19	532	351	241	1091
10	15747	1	196	0	23720	7174	2551	8	1	3450	238	30	164	6	109	304
11	10396	261	1551	0	29166	217430	30833	20805	4996	4936	994149	414577	81550	211	8112	54620
12	2752	2582	1420	0	15192	25197	7925	8622	346	785	8392	65726	10579	2128	2016	5413
13	812731	21026	16494	0	223474	383500	1721333	41371	86434	33105	116805	95389	4595969	34345	85064	100618
14	285645	12659	34728	0	235075	207951	130552	21160	7484	6290	79876	18064	753060	407345	11856	226009
15	12	2	67	0	30	2042	5041	6977	160	1280	424	335	17013	127	562875	412
16	5492	1688	807	0	1380993	110204	6212	901	903	9788	10741	217	144738	933	1066	459155
17	1517	16099	4632	0	959947	4653	8395	889	1190	2674	27282	21623	29991	6774	1107	48221
18	26554	5465	3860	0	542844	122078	16189	7459	2730	12945	5815	1292	105239	20721	6004	33508
19	16612	8648	11296	0	157885	29472	63355	5655	2242	3076	8212	1853	30989	9996	3071	24713
20	6934	15804	2442	0	501391	8914	8634	2386	1449	500	3353	412	11566	6228	833	10612
21	922	7490	7437	0	15001	28296	8338	3832	1367	2325	5551	5818	13975	3063	1291	13580
22	22702	89	73	0	13086	328	142	251	12	38	86	52	122	188	39	217
23	290	1	22	0	6580	1228	951	131	24	62	213	42	2793	123	38	473
24	12158	2307	3004	0	7995	14165	21498	4600	716	23923	6868	755	19607	2013	11676	8985
25	9255	16	59	0	2371	34880	11192	43321	165	182	1243	264	9958	145	20763	434
26	81004	4793	5815	0	356613	200768	102590	33493	13600	7991	33525	23208	193016	155406	18761	154403
27	9959	2844	3714	0	39687	40172	30590	11745	1140	3796	9013	17441	30700	6001	3903	17293
28	3893	55401	29026	0	40966	149833	276339	26983	23872	6793	70455	12490	514526	29369	10136	259666
29	2685	460	1665	0	4498	28876	19761	10712	5215	2836	5707	2533	39140	3498	1585	4312
30	167569	16078	10009	0	483033	526867	170034	105840	29995	34537	84711	40198	558657	24302	81246	81958
31	171985	24779	18837	0	319269	182381	308544	101312	42475	14504	65704	32251	272264	95923	34519	129640
32	28930	3967	5176	0	230724	128139	58042	27495	2786	10616	15364	22897	84251	17311	12655	19649
33	17029	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
wL	1447588	252176	314121	0	2470261	973094	1124457	500421	65712	59095	219547	300750	958747	179022	191408	456709
rK	9061129	151337	188692	0	2121977	3496100	993481	172371	48192	77107	263796	148623	1838768	1337918	54258	591915

Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)



### Gross Output 1984

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
398	728	209	82	66	206	49	267613	10251	222	1	1	18	9082	1247	18674	52897
13449	1333	1436	809	276	64	102	482	535	43	1	156746	1	3086	131	4304	78375
571889	1794	1327	6160	906	80	449	166	1384	5814	1	1	1	1	2	1126	109
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38214	617	4065	6199	3311	4820	586	1493	1895	10309	6360	25152	3596	93118	648399	72081	359914
17	39	9	624	1	2	1	1	5286	1	1	1	1	1872	2	225	3015
1373	7926	5949	13444	8314	3109	1362	215914	191631	22045	1106	101	89	21625	4380	19581	6743
370	60	61	129	41	19	9	33	721	4142	512	18	202	351	1	2729	51
465	32591	4416	22415	1566	3537	140	399	4281	2023	2	2	2	4855	10098	8588	1192
1140	590	144	1202	46	978	20	33	1228	1049	2	1	7	13532	1112	21530	166
1882	12720	3340	74019	2659	4658	909	28542	19042	5496	397	65	1633	238556	3522	26007	265
5198	7100	6820	15071	1601	5324	1148	5970	12085	26531	17565	3607	2631	73483	80698	429443	97039
102993	123086	69788	552825	66308	80767	29180	305510	288898	32503	496	53265	32578	68027	6263	545556	95547
600574	72668	59411	78631	30863	46829	5483	38240	28817	2238147	26325	1610806	53946	651050	127639	256535	318252
1812	1107	781	447	5824	297	106	87103	162143	295	694	2	95	189	2	2	542
154932	17400	15606	169780	16008	13582	7760	1291	26636	20765	5172	150	416	17277	4695	13860	5264
5159434	1343331	588563	689856	382270	440551	33598	6987	103850	10919	121	139	8151	15592	5671	11146	63586
47408	136096	117932	83793	44838	89372	11439	12498	37890	40829	1064	4135	1482	58047	10246	20174	53316
124334	122121	983358	67123	298395	294255	5262	9417	6259	19961	1976	20738	5132	37653	6217	69197	231735
42427	17751	183817	3174579	53327	471517	32470	2014	18592	53028	35879	51776	3281	30819	27241	107155	175298
7205	5993	16225	9651	625632	14150	990	2367	4271	130437	1	3103	1	15698	8505	54533	114374
1467	66	1535	9553	119	181757	682	75	33	66283	25769	10	31	3087	901	21368	621741
996	943	22078	16071	1174	9218	257166	324	512	2145	173	861	997	1626	1061	67293	9569
2828	5900	44596	24454	54425	11792	1046	45280	14602	150588	102	721	175	4385	602	16790	4376
361	1169	1353	24329	990	335	195	3937	58867	16619	42	1	11	32858	3437	44437	2220
155030	62528	71688	106037	35660	46587	6786	44009	27714	767095	39539	36206	2291	302001	90240	72750	87221
16198	16043	26148	41788	9979	12449	3291	5929	13329	85539	92132	6816	1936	553807	109540	141226	94397
421729	78532	72200	102972	63121	50882	10982	43662	27765	78902	27440	26578	130377	327924	141085	190429	90434
12897	4866	9623	21566	2239	2141	1523	2500	8720	6318	1399	1029	1540	34739	10292	17472	6964
212407	199065	231649	452399	46251	153174	46615	99412	115113	207012	15972	53736	7833	490917	29549	196524	100654
214405	91559	112125	203843	85985	93228	24131	66549	84216	360731	10433	118482	11028	1083186	1019009	460809	98279
23536	33238	27565	81887	16364	30942	4205	13783	28325	90229	10059	2690	6803	192859	204859	285687	99403
1	1	1	1	1	1	1	1	1	36971	1	1	1	1	1	1	1
500970	479169	617859	847548	342495	574260	96391	391894	284868	2453100	557264	413329	52500	2543872	2724947	5321650	3328437
916359	322286	560962	1215711	636993	482700	74917	215011	341892	2542443	1047827	1569180	97683	6765582	5550319	2425426	101126

**Input-Output Table by 33 sector (1983-2000)<sup>1</sup>**

**Gross Output 1985**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1544473	30463	1012	1	12319	9664521	736382	1	520362	17814	10717	1	4493	421	970	238
2	9496	409	51	1	1	662	538	39	64	26	448	144	6202	1058949	5	205236
3	3684	1	1	1	147630	4880	1918	14	89	86	8300	2	245558	3123	1807	448202
4	1	1	1	1	1	1	1	1	1	1	1	1	192	5860325	1	1
5	68148	6921	12980	1	13331	17711	16186	11867	3652	1637	5156	1164	15667	7113	162	4378
6	1395054	1	1	1	16	2212237	2	20630	1	1	8474	1	132332	1207	370571	28
7	39465	810	1143	1	7520	8497	4018078	1783499	1004	8237	18044	3903	34739	391	46893	4308
8	1617	1	1	1	348	338	2232	3603	1	1	1	1	114	1	102	163
9	28862	26743	4337	1	217448	7403	3950	223	91958	167837	33422	169	13576	1154	343	4189
10	130	1	1	1	2521	76	529	7	164	5750	21	26	48	21	5	1
11	13747	212	257	1	24662	264174	73291	25894	4708	6164	1059370	424881	141205	5013	16310	74152
12	5157	1932	1108	1	12787	18140	14608	4927	609	1534	3602	72669	35435	2270	871	6765
13	976520	22147	28861	1	230084	441357	2069605	31342	42345	46306	146052	104858	5383867	52780	123668	110255
14	350013	16127	52547	1	302967	206697	179372	18017	10367	3850	92527	9226	984224	454050	13204	263064
15	1000	1	1	1	295	1342	3680	364730	49	705	1211	393	2698	242	288087	483
16	5908	1334	329	1	856123	151256	7051	390	2311	7828	20169	515	119728	4401	854	603541
17	7157	15424	1488	1	522877	9408	10509	-46	1094	3018	26206	13447	50404	5549	428	19644
18	19521	4311	6240	1	269522	103636	14328	2036	6184	22043	7489	1089	80932	34546	2144	39258
19	29575	13556	12593	1	63068	20535	50213	6565	3983	1197	7529	4746	31990	5135	3679	25220
20	27303	14061	11000	1	563692	19174	26629	2608	3686	3301	6095	3058	30366	9123	924	28564
21	34937	8880	16786	1	24937	27791	9535	3421	3000	3077	3704	6432	17079	4339	589	24929
22	44338	833	111	1	1457	128	47	7	85	17	15	8	89	286	6	33
23	3367	490	167	1	85955	1577	2134	74	485	51	422	177	9328	303	70	1092
24	6303	2960	3034	1	10108	10849	25467	1534	1376	13975	1879	866	14467	1661	13239	10440
25	2987	101	667	1	2745	39615	38884	44692	246	63	426	345	1634	8808	1512	814
26	127210	8604	13140	1	284584	177546	71203	35801	24401	9793	27396	24179	151471	189172	6832	141387
27	25677	3282	4027	1	45241	34561	36853	8249	3516	2435	6682	9326	44145	5116	2034	12172
28	27987	53341	46090	1	29888	154631	341994	37050	22279	8111	93818	12406	472745	37851	8012	225774
29	4959	162	1153	1	4780	27530	19949	1908	1003	722	2602	1118	56454	2880	913	7396
30	296141	15079	13003	1	297953	601493	196205	178697	27659	33373	86977	68231	492939	36629	63815	73694
31	220075	29141	31312	1	655887	369352	282742	77619	37362	36484	73161	85788	471767	68023	29333	129952
32	26194	3060	2009	1	16077	28059	22234	5037	2308	1300	3904	2534	34386	8285	1548	7196
33	26105	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	1485769	316356	317801	1	1934385	1071320	1224555	518474	101725	70774	261558	349426	1111989	176889	186076	517249
rK	9468120	105156	194462	1	1443676	3636894	1180954	242998	78143	68941	330083	172018	2125373	1364603	110122	742526

**Notes**

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1985

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
88	40	96	90	7	1	22	179320	9655	83	1	6	1	5732	273	21089	13179
10355	739	371	413	220	21	1	81	664	1	1	320365	1	3645	1	750	1182
605687	924	3406	9093	388	609	264	754	11735	3693	1	1	1	1	1	3	267
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28626	5064	5587	15422	3497	6274	1123	3227	3802	15682	8529	72977	11215	193505	778210	88364	251891
701	1	1	1	1	1	1	1	712	38	1	1	1	1835	1	2274	1082
4372	9156	5785	20628	26173	3925	1108	272690	305598	21276	591	116	45	25131	3833	22745	4433
58	227	105	1550	122	625	2	188	1	86	845	1	1	1282	5	6760	731
12529	46114	13113	13008	16505	13535	1709	2259	38838	6851	9	68	1	6670	2507	10076	1173
546	773	16	5464	1	19826	88	19	569	426	2	1	1	10881	876	12453	684
6455	14731	7325	85924	3369	2511	8980	31999	60380	3384	367	72	6	190783	4340	11426	1446
4654	8112	6921	28145	3300	5390	1976	2430	14172	25503	12710	2539	1594	89822	444845	123129	108677
109081	140767	83425	480642	45511	92554	49477	469025	253460	31477	432	78214	11965	81330	78620	624417	130865
617084	65209	61627	89947	32977	23696	7005	45993	28429	2472371	27379	932546	56542	548847	137435	237559	372023
738	726	951	721	1174	153	1198	226282	161389	151	158	1	1	150	29	173	509
140328	25059	17941	252207	49480	16767	35678	2159	25466	6974	14	1105	2452	-11352	4383	7860	3176
5926976	1379732	685584	891393	311436	633241	31780	6284	87303	7472	46	144	8043	8503	2566	801	1009
54127	191890	122537	221793	99495	59275	24267	45028	68246	30118	845	3702	196	51930	6799	11779	26853
41972	26515	745170	53219	460292	518752	2904	5550	9289	32080	2531	7263	5147	53710	18694	30775	583531
112956	63427	568520	3630033	249573	185677	63161	12273	76622	63135	62249	49399	2443	38182	48653	34188	209852
11181	8034	28667	8472	501837	3657	3391	3154	4645	236725	1	1582	378	22349	23869	51250	136702
153	10	330	150	224	244462	27	12	4506	151640	1045	43	1	1770	26	6972	318706
2028	2518	56356	50691	28509	21416	180036	933	3027	1939	113	5558	2683	1637	6085	42376	18716
5936	10541	39858	42441	111839	15124	9334	65634	9586	161767	65	823	136	6116	1035	7349	9787
718	1488	2083	4964	782	236	3970	8932	27591	2743	52	107	19	35904	20124	27028	10667
115722	55371	45996	88631	28554	25210	8955	18973	23965	1077337	13895	48230	4935	328169	124272	56838	130444
11463	16421	22669	43456	10882	11269	5286	6337	15125	87456	111763	3750	865	691362	190002	109861	70907
412149	79910	49673	105817	33539	34558	13924	39384	24849	97305	37561	15931	117603	342688	290660	265677	92988
7883	5054	2867	8200	2336	1477	1413	1584	5077	7473	1283	673	56166	30094	27112	36444	3916
198239	187863	221016	494615	179214	131860	47741	85002	86567	193640	13332	29636	4826	389950	52895	221200	106277
185152	104710	153295	306941	97715	252624	40626	66081	91935	485876	24036	84667	22181	1254888	1442802	784512	237157
9977	8535	11814	32597	7992	3516	2514	4308	6653	57028	3919	8356	1432	104286	445689	98153	36913
1	1	1	1	1	1	1	1	1	8444	1	1	1	1	1	1	1
531292	565596	623778	1243776	394329	574187	139533	500600	388634	2501623	570602	413452	68528	2728591	3143667	6672844	3632838
1236387	515925	730701	1577644	647533	414837	125411	273378	328558	2306384	1351788	2388472	112019	8141214	7147688	2076497	81665

Input-Output Table by 33 sector (1983-2000)<sup>1</sup>

Gross Output 1986

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1745467	31547	872	1	14874	10721219	699740	1	506506	13461	12361	1	5877	336	7	107
2	10647	448	63	1	1	517	542	16	65	30	535	167	8230	1200312	6	171271
3	4952	1	1	1	156950	8217	2598	15	85	107	10746	2	257756	4732	2804	484683
4	1	1	1	1	1	1	1	1	1	1	1	1	1	3466972	1	1
5	73441	7355	13652	1	14565	19389	19311	12497	3935	1826	6232	1193	17419	7067	156	4985
6	1477210	1	1	1	18	2497115	6	26078	1	1	11004	1	131619	1530	592284	29
7	48749	845	1221	1	9105	10912	4884124	2121140	1045	9519	22711	4458	46403	397	55822	5928
8	1938	1	1	1	345	401	3300	3641	1	1	1	1	154	1	117	200
9	35073	30224	4461	1	233228	8697	4647	240	94479	187687	36464	187	15593	1234	342	5095
10	162	1	1	1	2727	92	627	6	201	7530	31	27	61	25	6	1
11	18607	236	281	1	29038	320586	94839	30374	5814	7512	1317268	457125	166381	8035	20310	85140
12	6093	2187	1164	1	14069	20839	17609	5460	633	1827	4345	78575	39611	2627	1059	8610
13	1037595	24274	30065	1	256040	508340	2375466	35960	43802	54794	187332	112937	6046698	68475	160528	142929
14	384926	14800	48746	1	269877	188412	182215	16347	7826	3831	97690	8401	898475	469513	14765	263836
15	1068	1	1	1	339	1561	4864	475426	47	855	1366	445	3754	299	372911	688
16	6654	1461	389	1	913837	170409	9201	431	2696	9506	29377	576	146868	5763	1234	688315
17	8542	17200	1555	1	570152	10865	12782	-7	980	3538	33022	15143	69848	5602	463	21570
18	25516	6077	7817	1	306267	118314	19469	2845	6784	24178	9471	1207	93899	42665	2857	44468
19	35368	14596	14179	1	68699	25895	65774	7952	3997	1419	11187	5481	40360	5746	4953	32770
20	35381	16089	12853	1	588334	22134	34711	3245	3713	4307	8167	3868	41975	10631	1009	35658
21	41096	9656	17353	1	24557	31310	11408	3695	2899	3521	4538	6697	19693	4974	718	27872
22	57768	867	102	1	1518	147	56	10	85	20	18	9	106	257	7	40
23	4187	434	184	1	84120	1868	2727	107	467	68	480	164	11797	325	90	1398
24	7623	3378	3264	1	11736	12773	36107	2155	1339	19834	2434	945	19196	1943	11982	11826
25	3650	120	711	1	3018	50393	45494	58001	230	77	613	398	1974	10127	1339	1111
26	148311	9333	12733	1	309129	199393	84753	39154	24505	11257	34454	25071	170498	215161	8899	160934
27	30460	3577	4336	1	50782	41906	46058	9428	3980	2960	8915	9836	52940	5915	2691	15860
28	30704	55343	44175	1	26982	166260	364570	38136	19915	8831	117408	12644	492439	37361	10039	235332
29	6418	187	1431	1	5230	31451	26232	2117	1123	944	3308	1307	51253	3150	1303	9327
30	360047	17070	14344	1	325883	728723	244895	189101	29635	39825	115182	73864	569492	44111	86153	90039
31	266985	38056	33033	1	891368	452569	329726	98077	39796	44324	100769	98505	531915	98245	62795	163920
32	30791	3368	2184	1	18204	33891	28202	5755	2177	1582	5473	2749	41453	9202	2208	9083
33	21756	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	1613510	349230	322094	1	2106482	1205400	1557477	602186	102088	83303	321178	362504	1321713	199872	206271	612465
rK	9762888	114451	203362	1	1512695	4135911	1630559	323610	85882	77946	417988	177987	2509128	2505792	132606	896829

## Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1986

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
120	52	156	123	11	1	25	178415	11977	101	1	6	1	6460	309	23575	16176
9193	757	333	366	217	1	1	110	993	1	1	298272	1	4475	1	836	1579
635437	1097	4774	11777	571	340	426	985	10701	4421	1	1	1	1	1	11	329
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29831	5976	7877	20761	4949	4180	1481	4103	5220	16717	10271	79601	11736	222408	845352	97651	334870
848	1	1	6	1	1	1	1	788	38	1	1	1	2241	1	2685	1325
5072	11703	8515	33624	38488	3398	1497	356903	377588	22582	751	131	94	29832	4704	26180	6043
48	232	165	2270	182	141	2	267	6	99	1073	1	1	1520	5	7270	944
14678	52428	16570	15670	17934	9845	2384	3497	46825	6975	7	79	1	7621	2788	11991	1510
836	873	30	8431	1	17151	117	27	902	600	2	1	1	12467	1139	15095	1110
7805	18461	11199	117104	5133	2410	12254	41792	83027	4025	401	79	11	211586	5507	12865	2080
5851	10313	9155	36497	4448	4538	2442	3542	17131	28452	14931	2985	1817	98814	485812	133461	126530
131711	173115	113061	696484	66953	81875	59775	605360	338192	34105	502	114460	13577	91468	86735	721230	175774
637191	66203	75325	106315	39749	14256	7840	50714	31543	2130696	29234	646906	62439	544354	135806	227517	363845
894	1035	1329	906	2006	141	1804	352975	219747	185	186	1	1	191	37	195	722
168289	31266	26788	339002	73425	13380	49533	2897	34075	7772	12	1077	2631	-11960	4545	8579	4048
6751076	1673057	940418	1202944	444866	474440	49584	8180	113441	8518	65	155	8998	10006	2729	4921	1343
63420	237698	176405	324296	137557	55977	31300	58161	88479	33630	1067	4312	232	60780	8304	14761	38057
49883	33766	995657	80947	718276	464776	4226	6725	12800	36426	2068	8520	6522	61721	21868	35368	850075
135739	85356	792440	5444965	367881	166425	99097	17327	109725	69314	65828	56920	3142	44053	58609	42342	297622
12846	9510	39986	11683	724473	3479	5642	4131	6345	246663	1	1762	462	25746	25342	57565	193379
134	15	470	199	356	211756	51	19	5607	168532	1336	45	1	2079	27	7926	510016
2627	3027	73873	71281	45657	20448	225079	1130	4338	2337	156	7027	2883	1885	7300	58124	33913
7494	12250	57582	64161	155709	14798	12727	88833	12566	174978	93	1454	203	7276	1392	8584	18756
800	1897	3018	6700	1241	248	5544	11788	37908	3419	63	107	25	45542	23318	32230	13675
128134	65334	64626	117871	39887	18828	11008	25036	30813	1292663	14741	41205	5786	374927	148961	61693	159168
14231	21426	34176	68157	17234	8793	6932	8854	20259	99535	117293	4361	1053	853922	237466	127457	92416
442037	91317	66377	141870	45219	24237	15805	48879	31469	103299	44113	14236	120188	368571	307635	285551	111198
10020	6436	4279	12991	3325	1367	1906	2061	6737	8972	1688	856	57700	34849	30662	39726	5050
227951	232153	319812	661902	283722	108345	62744	112281	120394	214114	16677	32091	6057	439946	64083	257090	146309
217413	145934	209556	501370	147556	280168	45372	79547	122626	618541	22508	115677	11267	1310835	1781299	795508	270614
12196	10905	17436	51008	13446	2819	3079	5901	8901	62840	4604	10198	1671	126506	500038	104749	45018
1	1	1	1	1	1	1	1	1	10455	1	1	1	1	1	1	1
614283	658674	927158	1850036	533077	455527	164289	662978	545204	2694649	668998	430561	74321	3253932	3716634	7529065	3980486
1436218	679881	1066346	2379929	947759	298579	155898	366983	452824	2873474	1571137	2920042	143026	10214942	8271425	2378573	94207

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1987**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1659186	30104	786	1	14301	11326294	889117	1	583568	31497	14341	1	7055	411	5534	127
2	10964	487	78	1	1	691	698	25	77	32	602	217	14358	1294203	6	214685
3	6301	1	1	1	134109	8695	3382	14	97	108	12731	3	281829	3006	3397	515284
4	1	1	1	1	1	1	1	1	1	1	1	1	2	4253510	1	1
5	80261	8293	15933	1	16176	22566	27162	17666	5092	2103	8644	1614	27496	3674	243	6796
6	1607958	1	1	1	18	2957624	21	49169	1	1	9326	1	153027	1144	650136	38
7	56591	1112	1484	1	13158	12744	6110128	2724570	1282	11184	29389	5826	69839	518	85693	7576
8	2339	1	1	1	540	516	4520	6280	1	1	1	1	267	1	176	346
9	34745	24325	3919	1	251633	11802	4701	288	115682	187830	45438	237	18444	1232	518	6036
10	171	1	2	1	3690	88	928	10	11	8204	44	37	65	29	7	2
11	15785	261	311	1	28510	342996	108775	42311	6874	8456	1750350	566438	204637	5775	27679	103159
12	5972	2167	1101	1	15409	22292	23281	6800	905	1831	5195	94109	51884	5129	1333	9706
13	1028609	24747	33872	1	306746	641156	2756744	51973	56638	60726	252196	138288	7524882	82352	187178	168997
14	358244	14747	49745	1	308151	196015	200749	22591	11204	4056	102255	10575	1007700	447500	17385	305414
15	1644	1	1	1	594	2482	7395	584072	54	911	2787	595	6355	469	440295	1286
16	7483	1341	441	1	1114756	182858	13175	628	2872	8866	34562	774	159716	4772	1634	764744
17	8421	19908	-498	1	689543	9456	14719	-616	-95	4242	41525	27488	84141	8530	621	25118
18	27391	5367	8274	1	438291	134719	24857	4270	7351	34966	12398	1635	112830	55207	3164	51708
19	43473	16413	15437	1	98439	40756	129016	15498	5109	1701	18726	10637	86136	10340	8997	51794
20	39006	16168	13900	1	585212	27893	41764	3826	4958	4564	10346	3594	53962	21274	1347	44760
21	48217	15073	23996	1	39696	51023	21679	7810	4993	5746	8108	11513	32624	6912	1253	50287
22	50963	840	116	1	1523	174	85	8	89	23	24	11	105	834	10	92
23	5748	619	181	1	79980	2261	2743	109	536	65	711	248	15062	2034	98	1790
24	7483	4048	3286	1	13191	13398	38814	1905	1616	19007	2857	1255	23209	2197	18584	14544
25	3975	111	725	1	3415	41774	57168	60621	239	70	627	529	2235	7450	2132	1160
26	138118	8821	13086	1	319506	190369	94326	44774	24852	10403	38347	28085	194286	202055	9295	176458
27	30710	3756	4391	1	56401	45133	50098	10902	4242	2824	9956	11441	62566	6237	3149	18104
28	30387	52558	45737	1	30875	170957	481129	43115	24055	8724	137395	14640	566447	31023	10721	259689
29	5616	171	1192	1	5446	29868	30436	2499	1062	818	3847	1403	47761	3856	1322	10285
30	276609	19768	16345	1	390123	771931	323642	294234	38499	46134	145244	91524	750895	48661	85789	113800
31	311897	39079	32023	1	971489	489323	408260	128084	50160	41473	125437	114237	697241	140222	65532	220436
32	30385	3562	1913	1	19922	37107	31568	6947	2897	1574	7073	2976	47760	23658	2801	10664
33	19857	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	1744543	390210	343753	1	2542855	1494246	1987558	774369	134021	93143	408772	414977	1693473	274334	272087	754270
rK	10639596	135618	213547	1	1766349	4451869	2133232	532967	107627	106030	535625	213606	2976324	2109039	178893	978646

**Notes**

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1987

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1298	58	207	138	16	1	28	198517	16338	100	1	8	1	7117	452	32059	19988
12382	1089	477	223	100	1	1	145	1113	1	1	183995	1	5243	1	969	1758
831308	1442	2015	10067	689	276	445	774	10055	3403	1	1	1	1	1	7	317
1	1	1	1	1	1	1	1	1	1	1	252874	23965	1	1	1	1
26244	9534	9793	24060	3013	6016	1929	5869	7476	20490	12281	98295	17370	293444	1001108	117491	411296
1300	2	1	1	1	1	1	1	3839	42	1	1	1	2438	1	4212	1444
5223	19173	10972	48591	82749	3665	2135	422712	483730	29883	1102	187	90	47061	6896	32593	7970
117	460	181	2325	420	181	3	409	1	133	1637	1	1	2155	11	10055	1395
8332	58377	23382	23098	26598	8419	2647	3828	60138	7505	10	77	2	7107	2669	11783	1656
32	1498	60	2284	1	17319	174	38	1104	622	3	1	1	16981	1530	19365	1149
4601	25159	10354	143550	12904	4502	14008	45419	95031	4540	563	106	13	275393	6615	15154	2374
5738	13238	11064	46832	5410	4524	3317	4103	25116	31629	18884	3502	2462	113655	525511	147647	157829
163849	217690	157737	1023600	136056	82790	80502	734036	477798	38266	712	110200	15470	127418	121524	940983	262525
652567	80216	74301	116956	65160	18172	9866	57906	41670	2324181	36002	469439	55482	722421	151822	262736	427699
1577	2795	2225	2294	1541	275	2552	435011	262038	293	526	1	1	435	127	810	790
233214	41538	32725	351928	96477	13712	43311	4917	41632	8245	21	1462	3872	-12494	6491	10268	4862
8669002	1957375	1187124	1526676	655974	459662	56267	10645	147228	8334	58	188	10228	11854	3144	7710	1434
92698	273542	208154	405174	186814	62167	34196	67698	110002	44184	1538	5302	255	87405	9944	16930	55573
77644	43063	1077574	100721	1105636	458730	5450	13274	21690	44166	2712	19682	7579	99985	30949	45239	874427
230148	94323	891755	6732220	541660	178924	107777	23641	149877	78896	92566	68501	3641	57427	69290	49236	288915
20365	15178	52799	19681	1319058	5371	10072	7452	11416	432302	1	3097	688	43982	48457	93291	236164
191	17	168	327	521	234652	84	22	9779	164566	2193	50	1	3346	78	11490	443328
3073	3921	105037	99125	72547	30750	306616	1888	5761	2596	157	8814	2933	3901	9274	70250	36627
10672	17623	71975	77999	249484	20207	16401	127833	16898	200059	88	1266	176	9637	1681	10808	13062
536	1882	3828	6283	1317	231	6854	13240	42578	3211	90	142	22	49318	23379	53707	14636
150148	76238	83280	151690	59767	21828	13909	28302	38449	1597319	20714	41147	6082	533048	190739	71607	187447
14783	25816	37295	76920	19354	10340	7982	10946	25225	99891	147590	3875	1128	1010521	282598	142861	101585
483138	104618	75037	164546	81286	28866	18632	58155	38257	109095	51224	18238	129826	420992	319298	301059	120413
23103	7704	5125	14704	4252	1412	2015	2533	8153	8507	1862	913	74286	40521	33651	44630	5712
318024	265768	412013	924604	472433	134702	80087	162140	161625	259906	21061	41571	7491	638484	91944	313943	154480
315363	169233	318286	761602	205799	241280	52402	121371	148882	718769	28275	222285	16027	1665803	2049403	851843	320921
9791	13930	20008	53298	22750	3243	3929	6713	11747	63304	6648	12483	2134	170275	553035	110219	54012
1	1	1	1	1	1	1	1	1	33166	1	1	1	1	1	1	1
792368	787561	1175472	2389931	843925	453558	223506	884527	719960	2869316	800770	448267	91012	4171420	4412029	8701389	4505364
1839286	710396	1335134	3028615	1306844	-96432	197184	455889	575826	2938653	1926379	3321815	138155	11927204	10189704	2787526	236235

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1988

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1873695	26276	1111	1	15746	13262697	904992	1	714621	47520	15507	1	16772	588	5204	183
2	10812	575	69	1	1	935	885	49	116	56	812	305	16904	1354442	7	224813
3	4874	1	1	1	124383	6417	2976	14	126	142	13731	5	290815	4066	3281	613521
4	1	1	1	1	1	1	1	1	1	1	1	1	6	3429141	1	1
5	92183	8873	20177	1	15767	28309	32834	20589	7236	3706	11322	2110	35260	4419	290	8559
6	1843835	1	1	1	18	3397731	19	53371	1	1	10375	1	186230	956	805699	64
7	62056	1055	1605	1	11059	13522	6270944	2803596	1665	18081	31921	6135	72774	680	96069	8325
8	2201	1	1	1	537	629	5184	10619	1	1	1	1	313	1	198	456
9	42123	24082	5558	1	277887	15703	5534	353	176548	282141	56693	358	22925	1568	622	7615
10	242	1	1	1	4790	124	1013	16	15	12605	61	53	93	35	9	5
11	17314	252	382	1	33024	404375	124023	46544	9432	13462	2074066	674033	226604	9693	29825	117705
12	6721	2305	1294	1	15670	28309	27997	8026	1186	3200	6699	108345	64315	6410	1613	11145
13	1053459	20212	32243	1	287740	743101	2928652	54978	65716	91380	292359	165326	8946735	98674	210845	201109
14	315590	11067	44312	1	270743	171002	176645	17586	12706	5317	83702	10292	891714	448769	15907	308231
15	1641	1	1	1	542	2814	7568	648615	71	1522	3286	798	7977	531	493483	1720
16	8272	1213	422	1	1184917	166296	13388	671	3550	11823	40590	853	171720	7202	1824	916567
17	8214	18716	-413	1	673660	10135	15363	-587	70	6575	50873	36851	109919	9774	677	28619
18	29891	5208	9422	1	520563	186550	24241	4606	10153	55907	14607	2119	149278	70074	3481	59750
19	43830	18083	17215	1	99447	54252	134052	15395	6875	2825	22427	13106	98434	11749	10158	59123
20	39758	15859	15324	1	556192	31900	46975	4090	6797	7277	12254	4551	64254	25289	1489	50108
21	54562	15697	30097	1	43128	64124	25736	8858	6602	8712	10180	15106	40566	8699	1487	65707
22	52288	878	128	1	1543	209	114	8	109	38	27	15	133	1262	11	111
23	6714	710	247	1	92071	3135	4043	124	848	122	986	368	19798	2649	121	2370
24	8139	4067	3649	1	12505	16087	45505	2309	2199	30797	3496	1593	28905	2517	21315	15668
25	3944	104	760	1	3257	46318	60564	62123	304	102	686	576	2521	8506	2293	1308
26	145196	9136	15236	1	350913	234103	110505	51205	34137	16972	48017	35482	237097	203417	11087	220013
27	32479	3762	5153	1	55646	53453	55128	11552	5396	4571	11733	13505	75265	7335	3594	21264
28	37958	49526	47688	1	28063	185571	517143	46808	29237	12984	154288	16843	644597	33115	11445	271088
29	6510	165	1338	1	4935	36672	34567	2623	1438	1300	4493	1620	67368	4613	1478	12556
30	332449	19466	18892	1	380363	901510	336783	317145	54935	69886	172191	111359	875604	56908	87295	134272
31	435540	46130	42333	1	1112187	612893	509888	141577	64429	64832	160322	136183	905016	182986	73724	284904
32	32984	3811	2318	1	19061	46603	37036	7743	4567	2617	8373	3546	60127	28184	3476	13201
33	18063	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	2292581	493307	371043	1	2772491	1772943	2193247	893302	187988	136596	492713	522556	2080322	329381	300321	938558
rK	12428166	190811	236719	1	1981369	5318016	2219895	610336	135439	154567	606791	254424	3440188	2448885	168651	1171333

## Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)



## Gross Output 1988

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1498	88	269	239	24	1	33	254613	18647	127	1	7	1	20196	634	37052	21709
14307	1404	1470	552	196	11	1	1237	1586	1	1	310701	1	6418	1	1127	2310
954703	1575	2183	12120	839	294	561	835	12282	3491	1	1	1	1	1	6	352
1	1	1	1	1	1	1	1	1	1	1	270185	28889	1	1	1	1
34010	12880	12985	34187	4314	6402	2687	7255	8661	25869	15796	129174	22045	363665	1160088	140640	466760
1640	2	1	1	1	1	1	1	4800	53	1	1	1	3196	1	4382	2020
5540	21998	13968	54506	84700	3270	2554	472378	444517	31212	1038	198	122	43343	6663	31562	8006
109	728	253	3110	581	213	3	432	1	157	1990	1	1	2470	16	10855	1730
11631	96670	31465	32121	37910	10661	3399	4663	79141	9729	13	87	5	8985	3459	13806	2384
44	2712	92	3454	1	19709	189	48	1846	971	5	1	1	22791	2131	25099	1768
5180	33480	12892	204015	17632	4703	18713	58216	100364	5355	623	129	21	312283	7819	17044	2897
6907	18158	14098	67158	7539	5137	4355	4814	27881	39141	23255	4023	3119	123634	707366	171548	196920
202429	286116	190963	1339254	165847	94909	101341	863251	491562	39465	851	109284	17996	139177	142066	1129552	309046
712738	79873	71401	128482	68311	15455	10421	54482	35752	2248691	35336	532869	67815	667307	148940	235713	447776
1892	3517	3125	2782	2059	329	2888	513008	274355	326	623	1	1	509	173	892	983
319184	47873	41733	435865	104334	13625	50726	5636	49237	9194	23	1712	4471	-15300	7312	11320	5615
10062114	2530545	1405986	2025352	871072	412317	71881	13083	175462	8718	60	208	12039	12713	3788	8635	1665
117302	339920	263155	554773	257007	70578	44801	78992	120665	46821	1689	6317	312	106396	12087	18697	81428
87407	56613	1286232	132793	1248416	502466	6618	15912	22911	53591	2631	24537	8062	114371	36284	50600	973974
273715	122760	1120894	9034057	698310	188068	146796	27019	142643	86644	111634	84316	4480	58611	81253	56034	325246
26319	21105	60565	27445	1682655	5813	14458	8887	13307	562008	1	3718	941	53602	61185	113918	292011
278	21	178	457	710	292528	120	24	10765	200272	2635	58	1	3856	109	10771	573648
4264	5861	143549	147542	97092	31605	398716	2498	7198	3562	244	11319	4312	5615	12667	86752	48490
12674	24589	84846	102159	317379	21161	19117	152771	17968	237891	97	1529	269	11823	2195	10442	15949
543	2305	4421	7803	1648	264	7560	13108	48849	5148	103	151	25	52859	23676	67787	16792
190464	102619	107170	212335	84575	24633	18245	34282	44034	1612574	24204	60408	8469	647770	240458	85949	229598
16940	33255	45953	102293	25831	10596	9755	13362	26540	114569	171776	4116	1452	1177746	343653	159644	119538
557844	123331	85513	207781	102595	27694	22552	62837	38870	117905	58817	21871	143574	446979	337439	323173	137679
28087	10113	6303	19821	5516	1467	2481	2739	8481	9590	2179	1049	87745	45309	37814	47943	7213
380799	347709	502846	1222661	574579	141916	102008	193533	160265	300542	25194	49927	9899	713624	114297	357249	187795
413396	252218	411667	1040449	298682	308160	67341	164315	181408	928771	31537	279670	23484	1933114	2649433	887587	389764
12069	19737	25001	73553	32191	3417	7736	7946	13256	73236	8764	15849	2907	204079	679420	135941	73024
1	1	1	1	1	1	1	1	1	55556	1	1	1	1	1	1	1
1043714	1047923	1486780	3147292	1094334	530552	292361	1062664	745011	3437705	927421	497117	109193	5053999	5498611	10260508	5528301
2208362	945470	1568735	3709976	1693287	503	250881	562586	598129	3456158	2279578	3457935	167787	13362907	12269421	3240814	292011

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1989

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1749449	19930	1329	0	35226	13025892	796928	1	749356	51571	14825	1	15542	472	11712	191
2	10528	455	86	0	2	958	813	39	126	63	809	346	16337	1133512	16	245237
3	4875	1	1	0	298047	6751	2807	11	141	165	14061	5	288661	3495	7909	687378
4	1	1	2	0	3	1	1	1	2	2	1	2	8	3966379	3	2
5	100969	7895	28296	0	41377	32616	33918	18282	8901	4718	12698	2693	38331	4160	767	10502
6	1545510	1	1	0	37	2995796	15	36267	1	1	8905	1	154929	689	1628006	60
7	62682	866	2076	0	26765	14367	5974017	2295824	1889	21228	33014	7221	72958	591	233927	9421
8	2838	1	2	0	1660	853	6304	11099	1	1	1	2	401	1	615	659
9	41707	19370	7046	0	659251	16355	5168	284	196323	324711	57477	413	22528	1334	1485	8447
10	393	1	2	0	18592	210	1548	21	27	23735	101	99	149	49	36	8
11	16799	198	474	0	76775	412718	113493	36612	10278	15182	2060546	762122	218221	8083	69761	127944
12	6721	1873	1657	0	37542	29777	26404	6506	1332	3720	6859	126252	63831	5509	3889	12485
13	967096	15074	37898	0	632904	717584	2535665	40917	67754	97507	274809	176864	8151725	77855	466605	206829
14	299919	8544	53918	0	616488	170944	158327	13549	13561	5873	81448	11398	841085	366551	36443	328160
15	1414	1	1	0	1119	2550	6150	453026	69	1524	2899	801	6821	393	1024897	1660
16	8674	1034	566	0	2977374	183449	13242	571	4182	14412	43586	1042	178736	6492	4611	1076842
17	8122	15034	-523	0	1596009	10542	14327	-470	77	7556	51506	42463	107873	8306	1613	31702
18	28369	4016	11449	0	1183729	186235	21697	3544	10821	61672	14195	2343	140611	57158	7963	63527
19	49940	16738	25114	0	271491	65023	144053	14221	8798	3742	26165	17402	111315	11505	27901	75468
20	36533	11839	18029	0	1224541	30834	40710	3047	7014	7772	11529	4873	58599	19972	3298	51582
21	25481	5955	17996	0	48257	31500	11335	3354	3463	4729	4868	8221	18803	3492	1673	34376
22	180964	2469	568	0	12791	762	373	22	422	152	97	60	455	3755	95	430
23	6531	561	308	0	214577	3208	3709	97	927	138	982	417	19113	2215	284	2583
24	20113	8165	11545	0	74041	41818	106060	4625	6103	88463	8845	4587	70896	5345	126978	43378
25	4294	92	1060	0	8495	53048	62192	54836	372	129	765	731	2725	7960	6017	1596
26	142590	7289	19157	0	825698	241833	102351	40767	37651	19373	48283	40606	231098	171693	26246	242055
27	30456	2866	6187	0	125023	52725	48754	8782	5682	4983	11265	14757	70048	5912	8124	22338
28	33774	35798	54326	0	59827	173683	433966	33764	29216	13428	140562	17464	569239	25324	24547	270217
29	8975	184	2361	0	16302	53183	44947	2932	2227	2083	6342	2603	92183	5466	4913	19393
30	322500	15340	23464	0	884075	919917	308126	249416	59850	78801	171032	125886	843035	47447	204139	145922
31	472703	40672	58826	0	2892179	699711	521924	124570	78533	81787	178163	172239	974879	170690	192886	346408
32	31455	2952	2830	0	43552	46748	33309	5986	4891	2901	8176	3940	56909	23100	7991	14103
33	11894	1	1	0	2	1	1	1	1	1	1	1	1	1	2	1
wL	2388394	417494	494917	0	6920506	1942896	2154969	754469	219949	165406	525580	634396	2151022	294923	754223	1095394
rK	12361648	154179	301459	0	4721947	5564066	2082446	492153	151294	178698	617976	294899	3396131	2093474	404381	1305203

## Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1989

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1519	86	292	233	24	2	30	279386	15370	118	1	6	1	19778	725	35814	18887
15134	1425	1665	561	204	20	1	1416	1363	1	1	289344	1	6554	1	1136	2096
1037299	1641	2538	12652	898	527	552	981	10843	3481	1	1	1	1	1	6	328
1	1	2	1	1	2	1	2	1	1	1	347757	53938	1	2	1	1
40471	14700	16536	39084	5055	12572	2896	9339	8375	28249	17972	135315	33499	417769	1558065	159476	476365
1493	2	1	1	1	2	1	1	3552	44	1	1	1	2810	1	3802	1578
6079	23155	16404	57466	91527	5922	2538	560753	396383	31432	1089	191	171	45917	8252	33005	7535
152	979	379	4185	801	492	4	655	1	201	2665	1	2	3340	25	14488	2078
12511	99743	36222	33196	40157	18926	3311	5426	69177	9604	13	82	6	9331	4199	14152	2199
77	4579	172	5841	2	57246	301	91	2639	1568	8	2	2	38723	4234	42095	2668
5460	33851	14544	206614	18302	8181	17864	66384	85969	5180	628	120	28	317792	9302	17120	2619
7504	18920	16391	70094	8064	9210	4285	5657	24613	39020	24155	3847	4327	129663	867329	177589	183477
201893	273707	203823	1283269	162878	156213	91529	931344	398379	36120	811	95950	22920	134004	159919	1073514	264354
735884	79099	78893	127446	69450	26333	9744	60849	29995	2130566	34883	484326	89412	665129	173561	231907	396508
1771	3158	3130	2502	1898	509	2448	519422	208667	280	558	1	1	460	182	796	789
363662	52317	50885	477105	117054	25619	52337	6946	45584	9613	25	1717	6505	-16829	9403	12290	5487
10809236	2607443	1616367	2090314	921433	730966	69927	15203	153164	8594	61	197	16515	13184	4593	8839	1534
120947	336173	290372	549555	260939	120094	41831	88105	101097	44301	1665	5734	411	105905	14066	18371	72007
108198	67218	1703910	157926	1521731	1026457	7419	21307	23045	60877	3114	26738	12744	136676	50694	59687	1034033
273249	117548	1197506	8664593	686456	309839	132709	29178	115712	79375	106553	74098	5711	56486	91550	53304	278474
13353	10271	32885	13378	840654	4867	6643	4877	5486	261665	0	1661	610	26254	35037	55076	127066
1045	74	718	1652	2629	1815175	409	98	32892	691030	9471	193	5	13995	461	38592	1849904
4506	5941	162340	149793	101032	55118	381558	2856	6181	3454	246	10530	5819	5729	15108	87358	43948
34027	63323	243781	263512	839073	93761	46479	443691	39199	586112	250	3613	921	30644	6653	26714	36724
642	2615	5596	8867	1919	516	8099	16773	46954	5588	116	157	38	60363	31609	76409	17036
203210	105016	122366	217651	88854	43372	17628	39566	38176	1578844	24691	56737	11539	667198	289556	87383	210094
17257	32496	50100	100120	25913	17815	8999	14725	21970	107108	167318	3692	1889	1158298	395138	154979	104445
539242	114351	88462	192967	97657	44179	19741	65707	30532	104590	54360	18612	177230	417118	368152	297686	114143
42070	14528	10103	28523	8135	3626	3365	4437	10322	13181	3121	1383	167832	65516	63926	68428	9266
401328	351490	567141	1237981	596289	246828	97356	220638	137249	290666	25387	46320	13322	726060	135956	358778	169746
487445	285253	519467	1178650	346795	599646	71906	209584	173813	1004971	35554	290298	35360	2200477	3525919	997290	394161
12504	19613	27719	73212	32840	5842	7258	8905	11159	69628	8682	14455	3845	204113	794460	134207	64886
1	1	1	1	1	1	1	1	1	36471	1	1	1	1	1	1	1
1181301	1137636	1800855	3422326	1219645	990984	299657	1301063	685189	3570537	1003617	495308	157819	5522233	7024132	11066227	5366406
2386368	979963	1814135	3851620	1801781	897	245505	657626	525207	3427256	2355232	3289441	231534	13940185	14964140	3337128	270632

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1990

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2027915	36819	2571	1	49558	13576937	782055	29	789873	3304	66749	1	167281	576	69141	126
2	1	357	31	1	1	1349	112	29	25	1	923	238	9485	1134199	12	177057
3	5535	11	32	1	399250	19213	3607	45	525	1	16003	161	313080	49963	1734	993495
4	1	1	1	1	1	1	1	1	1	1	1	1	1	5029627	1	1
5	65573	9431	20987	1	113789	23634	8588	1783	3015	534	4054	26	28280	13731	3252	6999
6	2110364	1	1	1	211	3627309	14384	33444	1	1	11793	1	211167	314	956035	206
7	66072	382	1023	1	48332	10326	6131097	2424639	859	24289	29049	5700	19583	1113	665981	9097
8	476	1	1	1	2305	518	1271	2123	315	190	501	1	1109	501	10687	245
9	40226	25565	10407	1	1053545	20246	4058	3072	272138	458510	8047	105	11952	1463	2736	9966
10	148	1	13	1	213341	293	29	121	28	23260	62	19	257	1	445	171
11	36525	19	300	1	136301	422195	127310	27164	14025	18349	2197335	925168	199745	5706	119759	144821
12	7806	377	1197	1	44567	31985	18374	3675	858	2889	10481	152762	36253	4164	35829	8693
13	883784	16911	25507	1	551853	493736	2815875	20454	70278	78652	279539	172831	7937349	120538	603496	257164
14	390643	2697	52831	1	655863	144217	153217	9429	13351	8666	73672	13676	1250340	450162	31426	321725
15	3893	210	614	1	5155	2681	7723	11308	91	8509	3299	776	5092	692	2481253	512
16	18593	83	1009	1	5069144	123629	10433	1191	2752	24671	31022	652	189556	11802	3658	1087781
17	14417	10403	2428	1	2516071	16169	10498	360	2400	15743	37894	22323	132250	15993	5642	68209
18	50729	3075	9897	1	1952426	407980	28454	2028	10849	54407	13388	1407	189637	63695	37245	59545
19	131390	16592	48560	1	1438683	90494	194985	12413	16838	14830	37662	5905	167340	51091	26911	118085
20	35818	9807	4727	1	1642843	28900	26601	1198	1591	1568	6169	4160	30230	7932	6215	23427
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	205318	14737	56437	1	127991	69907	24082	6106	10282	14136	11342	22941	48801	7190	10835	93025
23	21330	600	240	1	72009	5678	5914	476	225	510	1937	633	28471	7297	1608	3920
24	97066	3490	10596	1	927122	484749	91471	61292	6250	69806	54164	17042	239503	13935	194009	40398
25	6502	79	829	1	6481	102644	60222	43634	2053	95	780	29	3257	351	69083	916
26	218095	15884	22123	1	784429	357801	151354	36642	89104	37499	54138	67136	276079	214877	71743	278715
27	27331	772	4368	1	119176	49122	36457	10695	5024	4716	11489	19816	48851	9891	13816	21442
28	51054	35640	44883	1	83457	157950	328512	26593	28484	14682	117796	13040	424087	34238	45698	235392
29	9877	157	2078	1	17155	36262	31792	3344	2516	1444	5421	1986	72122	17690	7280	15511
30	455897	12396	18635	1	1358574	1303541	362399	196228	80316	111498	136490	117899	727758	56181	457084	196166
31	402060	28185	108269	1	4143699	872451	855065	136486	99689	94389	252391	253982	1346062	141974	331072	404646
32	38397	1617	3541	1	58567	62455	29484	3992	6147	4485	6188	13192	108084	12343	13297	10522
33	23508	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	2310322	335872	254201	1	11643069	2029027	2032761	609589	248727	276791	610416	795111	2064649	385565	1735902	1428722
rK	12587511	127211	829109	1	9082903	5339854	1694235	270376	177116	241815	734729	390198	3388129	1098663	641942	1707542

## Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1990

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
721	59	370	2587	1	91	31	154811	35152	48	13	5	1	8630	759	31795	21902
9538	470	294	623	17	221	1	191	53	1442	73	306045	2036	4044	125	1203	19
1062345	1982	4231	14374	314	3734	528	6476	12138	3976	1	11	1	1	11	557	756
1	1	1	1	1	1	1	1	1	1	1	1	336407	1	1	1	1
80450	8066	12756	28680	8677	10168	1379	7159	3263	33382	26832	305962	21979	332394	2311030	167752	513319
153	1	179	1	1	29	1	257	390	68	1	1	1	3715	1	4121	1671
4213	9444	13533	43756	98663	16024	2245	245278	303806	19388	1159	276	221	43823	14532	15139	18467
402	199	1890	2329	3879	357	138	205	68	191	2451	1	1	2248	1400	11451	24040
17887	79196	42796	31967	29854	32754	1777	4654	84234	19130	24	127	3	20789	7152	14087	6990
56	2300	138	1385	125	14851	4	84	72	1422	3193	2	7	19799	5768	33230	6714
9791	40816	25747	220814	3556	32296	18279	66986	89315	7112	1112	175	23	349195	23485	16154	5075
5948	15217	13176	51001	2779	4747	4796	29272	15970	29656	4156	2937	1525	151361	1229542	180862	193920
209538	171786	255180	727986	85134	273680	35576	2627099	275520	31536	947	177217	27219	59484	101614	1220250	127754
887212	53236	72822	95444	39697	56569	5418	58705	21850	2247798	17173	523850	81669	698475	221146	238140	315248
1494	3517	9077	5231	1707	3597	3129	1304	113955	3893	1597	1	1	15504	1671	2896	5778
300886	59702	99056	886539	71782	81117	55859	56814	65620	11191	332	1898	3933	2793	11145	13702	18844
12490588	2977355	2250071	1958118	185838	1934969	96192	51648	165627	13041	68	338	15301	11894	14679	14461	6328
64349	397328	427392	302744	211342	222200	33884	81130	73389	56048	2475	8094	661	90067	18546	24858	97031
246523	248833	2862440	374935	413803	1013191	22862	106737	34050	58989	8616	26143	16359	85698	40741	28996	1154958
77157	67638	693895	10383864	664651	279196	234972	25545	99923	93127	107655	62234	1338	92674	199387	102594	274623
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	115692
36628	27777	93997	32357	3789591	1640496	20351	14835	15310	853815	4312	3369	2327	68703	112023	148161	965104
13263	26200	189716	243346	83554	89403	308734	2567	2963	13924	10846	15278	9443	12408	34273	148279	200008
30234	90426	202365	854278	398253	601227	68065	509222	164025	291844	247	1359	972	99224	135594	25509	20508
764	3964	11895	10230	2596	1999	4374	2635	35008	2864	151	135	64	49821	42030	66694	36595
259086	86387	164069	311735	76201	87439	23530	74605	51951	1566717	38273	53070	9992	683985	472311	151350	252156
23432	23941	44959	76272	18202	22788	7534	18867	14035	110515	184536	5485	1451	1291399	548616	182098	135867
527473	90888	98320	159034	49028	75674	15038	108900	24031	106936	47025	446787	130891	435694	471388	276613	93607
19435	9198	13441	26018	2658	5361	3224	5611	7545	11698	2730	354390	197512	59646	91442	74052	13678
500133	285275	505765	1217867	466299	433062	98610	238046	139201	320931	18880	66769	16913	1016627	174066	293522	227388
635323	366479	503774	1211093	411676	516275	131108	312086	233370	1466422	141206	165896	70985	3124486	4250315	1657250	610347
51007	19535	44814	80600	17328	16323	4276	12883	7061	68183	11819	10204	1979	149804	914588	202395	63525
1	1	1	1	1	1	1	1	1	3614	1	1	1	1	1	1	1
1542134	1346495	2413223	3719997	1146711	1801276	316340	997278	618301	4653531	1288633	530968	211847	5762302	9084058	12619123	7469428
2880102	1171848	2189928	3894042	2768317	1371078	244701	1165063	566367	3819043	2428037	2915152	301818	16022124	18597246	3303155	246312

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1991

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2065834	29329	3076	0	54285	14499291	827555	30	917023	3786	72117	1	185184	855	62153	143
2	1	217	28	0	1	1098	90	23	22	1	760	198	8002	1281992	8	152913
3	5910	10	40	0	458400	21507	4001	49	638	1	18123	185	363284	77671	1634	1180099
4	1	1	1	0	1	1	1	1	1	1	1	1	1	6300228	1	1
5	72371	8140	27199	0	135041	27345	9845	2009	3793	663	4746	31	33918	22065	3167	8594
6	2370829	1	1	0	255	4271957	16786	38346	1	1	14051	1	257797	513	947748	257
7	68188	308	1240	0	53635	11171	6572679	2553813	1011	28198	31796	6315	21962	1673	606497	10444
8	530	1	1	0	2760	605	1471	2413	400	238	592	1	1342	812	10503	303
9	48521	24113	14741	0	1366460	25601	5085	3782	374103	622125	10294	136	15667	2570	2912	13373
10	167	1	18	0	259038	347	34	139	36	29545	74	23	315	2	444	215
11	38083	15	367	0	152815	461488	137887	28907	16666	21521	2429918	1035563	226326	8661	110187	167977
12	8009	302	1442	0	49169	34404	19583	3849	1003	3335	11405	168261	40422	6220	32439	9922
13	933764	13972	31646	0	626951	546872	3090429	22056	84623	93477	313242	196029	9113322	185417	562654	302255
14	451365	2437	71681	0	814855	174688	183895	11119	17581	11264	90281	16963	1569951	757270	32042	413528
15	4194	177	777	0	5971	3027	8642	12432	112	10311	3770	897	5961	1085	2358629	614
16	20219	70	1288	0	5927413	140939	11785	1321	3411	30178	35780	761	224006	18686	3510	1315906
17	15052	8493	2976	0	2824616	17696	11385	384	2856	18489	41960	25020	150046	24310	5197	79219
18	58838	2789	13479	0	2434972	496065	34282	2401	14341	70984	16468	1751	239019	107557	38120	76827
19	147670	14582	64088	0	1738658	106622	227638	14238	21567	18749	44893	7124	204381	83601	26690	147637
20	38653	8276	5989	0	1906322	32695	29819	1319	1957	1903	7061	4819	35452	12462	5918	28124
21	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
22	236476	13273	76328	0	158512	84407	28812	7178	13497	18315	13855	28365	61080	12056	11012	119188
23	22711	500	300	0	82442	6337	6541	517	273	611	2188	724	32942	11311	1511	4643
24	107834	3032	13823	0	1107508	564556	105557	69494	7913	87235	63818	20325	289143	22539	190190	49926
25	8323	79	1247	0	8922	137757	80085	57011	2995	137	1059	40	4531	654	78041	1305
26	239157	13620	28487	0	924932	411318	172404	41008	111355	46256	62963	79032	328989	343053	69421	339992
27	30111	665	5651	0	141182	56734	41722	12026	6308	5845	13424	23436	58486	15865	13432	26279
28	56685	30942	58517	0	99636	183846	378879	30134	36043	18336	138711	15542	511682	55345	44772	290736
29	11578	144	2860	0	21623	44563	38713	4000	3361	1904	6739	2499	91875	30191	7531	20227
30	478612	10176	22972	0	1533625	1434633	395201	210247	96094	131671	151973	132872	830260	85870	423437	229093
31	476712	26132	150742	0	5282901	1084441	1053123	165160	134707	125890	317385	323278	1734365	245080	346389	533718
32	43311	1426	4690	0	71035	73853	34546	4596	7901	5691	7403	15975	132487	20269	13235	13203
33	15862	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
wL	2613725	297130	337698	0	14163608	2406437	2388845	703845	320692	352244	732420	965657	2538304	635066	1732962	1798072
rK	13893987	109798	1074638	0	10780298	6178966	1942563	304584	222804	300244	860126	462359	4064032	1765573	625258	2096672

## Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

## Gross Output 1991

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
809	69	424	2931	1	106	35	173643	35718	52	15	6	1	9056	913	36221	23903
8154	417	257	538	14	196	1	163	41	1211	64	262374	2098	3234	115	1045	15
1249102	2420	5083	17071	357	4553	621	7614	12927	4593	1	13	1	1	14	665	865
1	1	1	1	1	1	1	1	1	1	1	1	384014	1	1	1	1
97774	10182	15840	35208	10198	12813	1678	8699	3592	39861	33240	372895	32185	377894	3012266	207047	606952
189	1	226	1	1	37	1	318	437	83	1	1	1	4298	1	5178	2011
4788	11147	15714	50227	108438	18882	2555	278714	312732	21648	1342	314	303	46587	17711	17472	20418
493	254	2368	2885	4600	454	170	251	76	230	3063	1	1	2579	1842	14262	28682
23758	109254	58080	42888	38349	45110	2364	6181	101344	24965	32	169	5	25830	10189	19002	9033
69	2970	176	1739	150	19147	5	104	81	1737	4047	3	11	23030	7691	41962	8123
11241	48673	30204	256084	3948	38448	21022	76903	92887	8023	1302	201	31	375049	28919	18836	5668
6720	17857	15210	58203	3036	5561	5427	33069	16344	32921	4786	3328	2076	159972	1489862	207521	213160
243784	207581	303347	855506	95793	330156	41458	3056169	290355	36048	1123	206761	38156	64738	126790	1441766	144606
1128826	70350	94670	122660	48847	74629	6905	74685	25182	2809934	22273	668388	125199	831324	301766	307705	390232
1773	4333	11002	6267	1958	4424	3718	1547	122442	4537	1930	1	1	17203	2126	3488	6668
360301	74252	121198	1072304	83131	100719	66999	68027	71176	13167	405	2279	5675	3129	14313	16662	21954
14359912	3555152	2643115	2273867	206628	2306622	110769	59372	172478	14730	80	389	21195	12792	18100	16883	7078
82185	527059	557737	390557	261050	294258	43347	103607	84902	70332	3223	10367	1017	107607	25403	32242	120568
305098	319851	3619667	468699	495291	1300188	28341	132085	38171	71729	10869	32446	24393	99214	54076	36444	1390651
91687	83480	842514	12463752	763856	344013	279679	30353	107556	108730	130402	74162	1916	103017	254109	123810	317498
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	110628
46454	36589	121808	41451	4648264	2157357	25853	18813	17589	1063938	5575	4284	3555	81509	152374	190832	1190852
15550	31904	227272	288186	94743	108687	362567	3010	3146	16039	12962	17964	13339	13608	43096	176553	228144
36985	114893	252947	1055598	471180	762631	83403	622885	181755	350778	308	1667	1432	113548	177899	31691	24408
1077	5805	17134	14566	3539	2922	6177	3715	44702	3966	217	191	109	65700	63544	95482	50190
312847	108342	202425	380217	88988	109479	28460	90078	56822	1858740	47108	64263	14538	772601	611657	185599	296230
28427	30167	55730	93464	21356	28665	9155	22887	15423	131729	228203	6672	2121	1465551	713807	224352	160364
644891	115413	122822	196397	57972	95933	18415	133129	26613	128455	58604	547784	192815	498296	618096	343449	111344
25087	12332	17728	33924	3318	7175	4168	7242	8822	14836	3593	458751	307193	72024	126593	97076	17177
578167	342524	597404	1422085	521336	519101	114182	275162	145762	364519	22248	77405	23558	1099385	215811	344598	255744
829490	496964	672052	1597171	519825	698927	171457	407427	275992	1881114	187927	217208	111667	3816060	5951532	2197395	775290
63355	25201	56874	101122	20816	21023	5320	16000	7945	83209	14964	12710	2961	174059	1218341	255303	76765
1	1	1	1	1	1	1	1	1	2639	1	1	1	1	1	1	1
1921148	1742217	3071760	4681001	1381586	2326766	394733	1242263	697707	5695881	1636389	663330	317985	6715135	12136953	15965093	9053087
3500631	1479342	2719689	4780754	3254165	1727963	297910	1415945	623549	4560710	3008238	3553222	442006	18217068	24242538	4077283	291269

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1992**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2221852	28903	3458	0	59644	15816947	900471	33	1024210	4209	78932	1	204077	1009	64115	158
2	1	199	30	0	1	1117	91	23	23	1	776	203	8226	1411741	8	158104
3	6456	10	46	0	511561	23829	4422	54	724	1	20148	206	406634	93139	1712	1328664
4	1	1	1	0	1	1	1	1	1	1	1	1	1	7196918	1	1
5	79796	8223	31347	0	152105	30580	10983	2229	4343	756	5325	34	38319	26705	3349	9766
6	2627061	1	2	0	288	4801235	18818	42760	1	1	15845	1	292698	624	1007262	293
7	73600	305	1399	0	59140	12230	7177371	2774067	1133	31467	34925	6961	24289	1982	627882	11618
8	586	1	2	0	3116	678	1644	2684	459	272	665	1	1520	985	11132	345
9	54726	24919	17379	0	1574463	29287	5803	4293	438176	725477	11815	157	18106	3182	3150	15546
10	185	1	21	0	293511	391	38	155	41	33881	84	26	359	2	472	246
11	41278	15	415	0	169206	507340	151203	31531	18758	24116	2680230	1146157	251356	10305	114550	187648
12	8655	299	1629	0	54279	37708	21410	4185	1126	3726	12542	185669	44757	7378	33622	11051
13	1016366	13934	36004	0	697129	603747	3403180	24160	95652	105195	346969	217880	10163923	221538	587401	339076
14	503546	2491	83587	0	928664	197665	207556	12484	20368	12992	102496	19324	1794606	927355	34285	475475
15	4582	177	888	0	6665	3355	9553	13670	127	11648	4191	1001	6674	1301	2471772	691
16	22196	71	1478	0	6647248	156927	13089	1460	3888	34252	39971	853	251965	22517	3696	1488832
17	16338	8447	3377	0	3132012	19482	12502	419	3219	20748	46348	27731	166875	28964	5411	88621
18	65713	2854	15736	0	2778161	561942	38736	2698	16633	81966	18717	1997	273527	131863	40834	88435
19	163565	14799	74198	0	1967339	119785	255092	15871	24807	21471	50602	8058	231958	101647	28354	168541
20	42344	8307	6858	0	2133414	36329	33049	1455	2226	2155	7872	5391	39794	14986	6218	31754
21	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
22	263655	13559	88952	0	180541	95452	32499	8054	15627	21112	15719	32293	69778	14755	11776	136960
23	24787	500	342	0	91920	7015	7223	568	310	689	2430	806	36840	13551	1581	5223
24	119073	3068	15954	0	1249308	632294	117922	77226	9073	99592	71713	22917	327144	27319	201430	56819
25	9541	83	1494	0	10447	160163	92874	65767	3565	162	1235	46	5322	823	85802	1541
26	263131	13730	32761	0	1039598	459010	191906	45406	127230	52618	70497	88792	370887	414318	73259	385539
27	33174	672	6508	0	158898	63398	46505	13334	7217	6658	15050	26366	66023	19187	14193	29840
28	62593	31306	67540	0	112395	205907	423267	33487	41330	20934	155873	17525	578938	67085	47418	330880
29	12964	148	3347	0	24734	50610	43854	4508	3908	2204	7679	2857	105408	37107	8088	23342
30	519959	10130	26086	0	1702045	1580819	434367	229865	108410	147895	168015	147402	924210	102403	441219	256513
31	535415	26891	176966	0	6061416	1235370	1196649	186680	157113	146185	362759	370762	1995937	302152	373146	617814
32	48019	1449	5435	0	80456	83050	38750	5128	9097	6523	8352	18086	150509	24668	14074	15087
33	14130	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1
wL	2900445	302111	391701	0	16056304	2708542	2681921	786031	369557	404134	827109	1094239	2886158	773585	1844478	2056472
rK	15316310	110902	1238258	0	12140173	6908747	2166484	337903	255058	342199	964910	520465	4590458	2136472	661099	2382147

**Notes**

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)



## Gross Output 1992

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
894	77	471	3250	1	118	39	192071	38391	58	17	6	2	9829	1028	40216	26237
8410	435	267	556	14	204	1	168	41	1243	66	270601	2259	3274	120	1082	16
1402873	2746	5742	19227	397	5162	698	8554	14113	5135	1	15	2	1	16	750	964
1	1	1	1	1	1	1	1	1	1	1	1	429026	1	1	1	1
110833	11660	18061	40024	11457	14665	1903	9864	3958	44977	37874	422689	38098	420497	3476279	235668	682985
215	1	259	1	1	43	1	362	484	94	1	1	2	4807	2	5923	2274
5313	12497	17540	55896	119257	21156	2837	309395	337344	23912	1497	349	351	50748	20009	19468	22492
560	291	2706	3287	5180	521	193	285	84	260	3498	1	2	2876	2130	16270	32348
27550	127992	67744	49875	44072	52815	2743	7170	114234	28816	38	196	6	29402	12028	22125	10398
79	3422	202	1989	170	22045	6	119	90	1972	4639	3	13	25779	8929	48048	9195
12527	54796	33855	286181	4360	43259	23438	85726	100616	8899	1458	224	37	410253	32808	21076	6270
7466	20043	16998	64847	3343	6238	6033	36752	17651	36406	5344	3697	2409	174461	1685107	231502	235084
272806	234682	341450	960087	106238	373032	46418	3421183	315844	40154	1263	231369	44587	71114	144447	1620047	160637
1294712	81518	109219	141088	55525	86424	7924	85690	28076	3208012	25677	766589	149948	935972	352364	354378	444303
1991	4918	12431	7060	2180	5018	4179	1738	133700	5073	2180	1	2	18970	2431	3935	7436
406639	84664	137587	1213676	92983	114771	75658	76803	78086	14791	459	2572	6688	3467	16445	18883	24596
16024468	4008051	2966792	2544703	228517	2598888	123677	66277	187095	16362	90	434	24698	14012	20562	18918	7841
94368	611412	644169	449734	297066	341145	49800	119007	94764	80386	3719	11903	1219	121288	29696	37174	137427
347434	367980	4146110	535263	558974	1494922	32291	150466	42254	81306	12441	36947	29007	110905	62692	41672	1572032
103265	94988	954472	14077830	852622	391202	315170	34198	117754	121896	147626	83525	2254	113895	291368	140020	354975
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	116183
53249	42372	140443	47649	5280466	2496805	29650	21573	19598	1213930	6423	4911	4256	91714	177816	219644	1355039
17448	36168	256516	324296	105359	123137	407057	3378	3432	17914	14620	20156	15630	14989	49231	198925	254126
41988	131773	288841	1201792	530122	874146	94735	707375	200573	396385	351	1893	1698	126537	205607	36126	27506
1270	6911	20311	17215	4134	3477	7283	4379	51209	4653	257	225	134	76004	76239	112988	58716
353879	123812	230318	431316	99759	125035	32210	101928	62479	2092839	53561	72690	17172	857877	704379	210806	332631
32199	34521	63495	106167	23973	32783	10376	25932	16981	148520	259812	7557	2508	1629503	823120	255166	180312
732118	132371	140253	223599	65224	109962	20918	151189	29369	145157	66874	621860	228577	555302	714374	391510	125479
28880	14342	20528	39164	3786	8339	4801	8339	9871	17000	4157	528083	369270	81388	148361	112211	19629
645763	386504	671161	1592889	577080	585397	127602	307439	158256	405260	24977	86452	27476	1205358	245396	386472	283554
957812	579746	780570	1849529	594874	814855	198091	470620	309785	2162113	218117	250804	134645	4325450	6996375	2547785	888678
72216	29022	65209	115594	23515	24195	6068	18244	8803	94409	17145	14487	3525	194758	1413827	292209	86862
1	1	1	1	1	1	1	1	1	2405	1	1	1	1	1	1	1
2191798	2008098	3525056	5355726	1562124	2680227	450591	1417765	773763	6468361	1876534	756759	378828	7520398	14096914	18289257	10252899
3967421	1693845	3100420	5433736	3655102	1977314	337820	1605312	686954	5145034	3426924	4026913	523101	20266885	27971444	4639999	327692

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1993

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2205285	10036	1800	1	80099	15356851	674084	14	996975	5232	42912	1	234200	770	21185	1
2	1	201	1	1	1	1	1	1	1	1	1	1	13450	933193	1	199827
3	1616	1	1	1	706909	23503	3698	1	1	1	38634	1	326078	212938	1836	1548962
4	1	1	1	1	1	1	1	1	1	1	1	1	1	8145463	1	1
5	72354	5559	28981	1	130577	35096	8323	2792	4939	782	5758	32	49090	14409	2437	11813
6	2911982	1	1	1	1	5016872	22330	40448	1	1	15345	1	262498	543	976273	1
7	83271	241	1743	1	54765	12120	7208770	2395237	1431	28949	44347	8125	32680	2315	421131	11977
8	362	1	1	1	3683	822	1678	6168	533	313	855	1	2076	1119	8029	407
9	79153	15047	17609	1	1800045	37900	7536	194	670844	846915	58339	208	19732	3327	3122	34681
10	212	1	26	1	320174	489	49	125	34	37969	97	21	462	1	477	248
11	54089	11	395	1	146368	571662	162943	39311	28391	30034	2686991	1208551	242416	9762	91285	175872
12	12143	283	2208	1	73251	45967	27880	4275	1747	5316	17782	232516	60592	10328	27158	14392
13	1105447	6898	39539	1	583855	647964	3228078	18399	111059	127143	376884	262287	10909835	242987	426199	349981
14	545096	1906	101029	1	1273967	218633	220681	8328	29246	19641	94999	25411	2247150	1025561	26862	523931
15	3886	127	914	1	6683	3198	8157	53728	121	14165	3704	1150	5902	965	1924809	378
16	13856	40	998	1	7117883	171335	12998	4390	5019	37786	43092	994	274095	14894	3350	1910210
17	17954	5132	1516	1	3447475	16071	10322	93	2525	22542	48805	31394	195264	26540	4910	114101
18	51851	1846	15437	1	3828593	507534	40128	1445	16044	164109	20834	1913	184230	97140	30243	94346
19	144929	10267	66624	1	2455610	110575	272434	14446	30584	23010	56900	8631	261525	127939	22176	159308
20	50197	5910	6819	1	2181425	35823	32911	1558	3052	2276	8031	4630	41749	13998	4116	35923
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	232202	8747	94088	1	170646	90974	27972	3423	17423	20786	15560	23114	71192	10637	7676	142300
23	30527	361	273	1	86157	7430	7513	579	414	806	2666	807	47104	16044	1517	5498
24	144736	2066	14624	1	1082725	686492	148156	82770	9342	107805	93412	23030	659692	24131	133552	55178
25	9372	67	1375	1	12488	98278	101280	92553	4908	212	1499	54	8335	1071	72913	1882
26	321173	13224	42778	1	1187883	472922	227105	44523	125890	68787	90021	87790	496903	168916	67686	516407
27	53037	423	8842	1	178121	87339	62887	14347	8538	6336	26054	37188	104229	34063	17358	62482
28	62475	22857	74689	1	121480	224742	468578	27346	58264	23296	190552	16642	691726	104081	35409	366359
29	15293	110	4281	1	27277	59337	47020	4960	4493	2514	8691	2684	126769	46579	6845	24880
30	529106	16264	24518	1	1831734	1710795	588138	260627	126111	124344	196441	154798	992237	73948	560366	259733
31	578637	21869	260378	1	6935463	1414710	1297982	269166	172905	162124	443091	374061	2042966	387493	314739	759593
32	55915	1205	7253	1	115863	75915	53813	5868	13820	7890	14288	22158	195431	36946	21816	34761
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	3166052	188209	465679	1	17704235	2870252	2789859	855495	441404	461602	834225	1162944	3027206	581773	1334138	2209104
rK	14750972	58438	1550459	1	13458067	7786655	2454070	444609	304267	457006	1032762	620816	5273241	5244720	625172	2546625

## Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1993

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1156	427	518	292	1	1	3	237650	53330	1	8	1	1	4996	1	53078	13655
26130	1	1	1	1	1	1	1	1	1	1	572263	6984	1	1	1	1
1325608	2084	8468	17094	1	5404	802	2454	9251	1	1	1	1	1	19	684	2287
1	1	1	1	1	1	1	1	1	1	1	1	697184	1	1	1	1
78168	14769	19941	57053	15026	11428	2071	9714	4779	45857	48764	464080	31017	306543	3787738	249486	1463934
1	1	49	4576	1	332	1	1675	340	1	1	1	1	5654	1	12999	3173
6168	14562	23475	57570	45545	188681	3586	268484	262687	27062	2112	455	555	58757	24316	21838	26308
616	386	3755	4734	5406	350	237	265	73	302	5079	2	1	3226	2719	14743	35613
36755	142169	100616	53254	36659	40282	3828	5676	146058	14005	49	297	8	47651	19441	38474	9459
96	1968	219	431	197	31140	7	86	94	2247	6770	5	21	35587	11555	60408	9730
9822	59351	49113	342500	1816	51865	28582	97866	111343	9705	1705	255	54	271137	63503	20293	6476
11092	27954	26313	77732	4995	8877	8996	34167	16421	95075	8204	5322	2837	201089	1606748	276708	261941
185607	300893	249137	1238636	141372	328149	50669	3663709	328141	44802	1725	158093	46884	66386	192914	2075002	134841
1116393	105273	149258	151066	63125	126192	11481	148702	33704	3689111	37839	1008590	233028	1259747	484036	559827	376484
1702	3877	6975	11097	2101	8593	6174	1949	125327	1567	2802	1	1	20471	2299	3588	4655
592003	75014	132584	1268292	100889	79216	95393	90499	58353	7633	591	2033	10149	-6331	4378	17711	16003
17640675	4303924	3061704	2333239	486864	2563352	125903	82837	183473	15406	92	409	33976	6644	19530	26955	1601
97249	900373	784749	437922	245677	366802	51698	136003	81564	76196	4003	11161	1445	96615	57642	37425	82963
342794	455089	5343152	510335	689992	1740122	37863	163089	33813	68992	15786	60333	25264	109120	105205	51110	1329827
138801	152007	1106714	15458666	794269	821594	481674	29702	103608	123008	185666	122294	1881	147261	247965	181151	311192
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	92675
54280	46857	173381	46989	6649576	2987304	30789	23885	14906	1464986	3499	4736	4866	89303	196793	197729	1272601
20485	41989	294984	409873	156116	167614	407652	3232	3381	20133	10497	24165	14102	22310	58261	275943	111511
45953	132679	325939	1327528	526233	1261035	102537	972612	149346	411493	380	2251	1582	110859	135174	42934	36229
1410	11605	20532	22133	4483	5388	7234	4646	118862	6047	314	274	176	181873	99719	164716	35964
459325	184475	314772	536952	118022	154894	40035	113718	68294	2040268	62300	110635	22242	984590	885538	236442	375977
107210	41458	82670	166834	45817	75271	10595	57301	14211	102884	303180	21469	7744	1730062	761142	219637	169183
976999	158958	175462	276207	55141	114371	25361	145438	30679	203010	87430	688162	208354	589576	733155	443243	163842
32344	17391	26546	46708	6349	7589	6107	9420	9589	15200	2188	638763	536124	124807	152534	111895	37080
618943	396701	671856	1406037	544502	561138	129093	342701	185166	421855	24821	133825	22265	1243971	229359	405620	313377
1194060	742317	1029647	2223856	685584	1057394	236064	488398	304880	3315876	345644	357389	210596	5393233	8925580	2708660	864613
87200	37230	85545	154365	26287	31487	9125	20463	11240	95799	23043	18545	5142	217741	1246195	703002	97781
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2280942	2228499	3878080	5756108	1599156	3111206	445740	1507002	752044	6760884	2130845	794920	425680	12946338	17233579	21041119	12071047
4617525	2103885	3570477	7738851	3537511	2246162	372647	1874264	763645	5951806	3919713	4090343	586607	15776531	35673474	5493363	517896

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1994**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2282846	7831	1737	0	81563	15504014	624140	24	1006378	5820	48851	1	260011	704	17369	1
2	1	160	1	0	1	1	1	2	1	1	1	1	15312	875016	1	220670
3	1687	1	1	0	725798	23925	3452	2	1	1	44346	1	365018	196328	1518	1681953
4	1	1	1	0	1	1	1	2	1	1	1	1	1	8566625	1	1
5	74602	4320	27853	0	132435	35291	7676	4783	4965	866	6529	39	54283	13123	1990	12671
6	3158260	1	1	0	1	5306674	21662	72901	1	1	18303	1	305336	521	838615	1
7	75805	165	1479	0	49041	10761	5869828	3623550	1270	28319	44397	8834	31906	1861	303639	11343
8	1261	3	3	0	12621	2792	5227	35706	1810	1173	3274	4	7758	3445	22153	1476
9	81037	11612	16804	0	1812815	37843	6901	330	669738	931751	65684	254	21666	3008	2531	36939
10	314	1	36	0	466987	706	64	307	49	60497	158	37	735	1	560	382
11	61617	9	419	0	164016	635124	166028	74418	31538	36765	3366182	1644286	296171	9823	82361	208429
12	15720	276	2665	0	93279	58036	32283	9197	2205	7396	25315	359499	84125	11810	27845	19382
13	1262645	5939	42097	0	655995	721813	3297946	34923	123698	156055	473405	357803	13364545	245162	385557	415872
14	523602	1380	90460	0	1203755	204821	189605	13294	27394	20273	100353	29152	2315009	870197	20436	523570
15	4474	110	981	0	7569	3591	8400	102806	136	17527	4691	1581	7288	982	1755353	452
16	15862	35	1065	0	8015600	191298	13310	8352	5603	46484	54251	1359	336533	15062	3037	2275027
17	21260	4581	1673	0	4015687	18560	10933	183	2915	28684	63555	44399	247983	27761	4605	140562
18	60204	1616	16708	0	4372802	574730	41675	2789	18165	204759	26602	2653	229415	99631	27811	113964
19	164299	8773	70403	0	2738367	122255	276247	27214	33810	28031	70937	11686	317969	128118	19911	187884
20	55449	4921	7021	0	2370302	38592	32517	2860	3288	2701	9756	6108	49459	13659	3601	41281
21	132	100	123	1	130	129	118	220	129	142	145	158	142	117	105	138
22	98882	2808	37348	0	71483	37783	10654	2422	7235	9512	7287	11756	32514	4001	2589	63042
23	31828	284	266	0	88360	7554	7006	1004	420	903	3057	1005	52670	14776	1253	5963
24	158671	1707	14944	0	1167591	733983	145277	150790	9987	127000	112617	30154	775629	23368	115959	62930
25	9316	50	1274	0	12211	95277	90049	152885	4757	227	1639	64	8886	940	57403	1946
26	373516	11592	46374	0	1358928	536403	236240	86047	142766	85965	115132	121938	619777	173528	62345	624791
27	67900	408	10552	0	224319	109052	72014	30525	10660	8716	36682	56862	143113	38522	17601	83220
28	67627	18650	75362	0	129351	237263	453683	49192	61501	27098	226835	21515	803048	99521	30357	412566
29	15589	84	4068	0	27352	58992	42872	8402	4467	2754	9743	3268	138593	41942	5526	26385
30	478302	11083	20660	0	1628822	1508299	475549	391522	111168	120789	195287	167127	961982	59049	401202	244264
31	699206	19919	293282	0	8243785	1667235	1402891	540502	203738	210517	588809	539839	2647603	413611	301219	954888
32	97788	1588	11824	0	199321	129484	84179	17054	23568	14827	27480	46282	366560	57076	30218	63245
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wL	3712673	166363	509022	0	20421974	3282607	2926220	1667109	504743	581672	1075805	1628735	3807178	602630	1239086	2694989
rK	15963965	47672	1564091	0	14326981	8218663	2375545	799605	321100	531477	1229142	802427	6120547	5013842	535861	2867196

**Notes**

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1994

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
1206	441	563	349	2	1	4	258158	50383	1	10	1	1	5293	1	58419	9072
27945	1	1	1	2	1	1	1	1	1	1	633356	7163	1	1	1	1
1393987	2167	9288	20563	2	4270	992	2688	8812	1	1	1	1	1	21	759	1532
1	1	1	1	2	1	1	1	1	1	1	1	802008	1	1	1	1
81200	15172	21606	67798	31138	8921	2531	10510	4497	51113	58361	498900	30899	323502	4157753	273503	968728
1	1	55	5720	2	273	1	1907	336	1	1	1	1	6276	1	14990	2208
5657	13207	22457	60403	83332	130040	3869	256484	218248	26632	2232	432	488	54748	23567	21138	15371
2162	1340	13746	19007	37851	924	980	968	231	1136	20538	8	3	11504	10084	54608	79624
37912	145015	108251	62838	75434	31223	4644	6098	136473	15500	58	317	8	49933	21190	41881	6216
143	2907	342	736	588	34957	13	133	127	3602	11652	8	30	54009	18240	95234	9259
11273	67360	58793	449683	4157	44731	38588	116992	115759	11952	2254	303	59	316140	77016	24579	4735
14466	36054	35795	115978	12995	8700	13802	46416	19400	133054	12328	7183	3549	266447	2214436	380867	217631
213589	342409	299039	1630583	324542	283763	68590	4391362	342065	55320	2287	188275	51740	77610	234585	2519959	98846
1080409	100748	150664	167244	121868	91771	13070	149892	29547	3830797	42190	1010132	216273	1238547	494994	571759	232098
1974	4448	8440	14726	4861	7491	8425	2355	131702	1950	3745	1	1	24126	2818	4393	3440
682810	85559	159503	1673433	232134	68658	129426	108720	60968	9447	785	2427	11226	-7419	5336	21558	11758
21045777	5077625	3809911	3184356	1158718	2298037	176692	102936	198282	19721	126	505	38873	8052	24620	33937	1216
113762	1041550	957512	586031	573319	322435	71140	165711	86431	95640	5395	13512	1622	114819	71252	46202	61822
391522	514003	6365356	666793	1572129	1493489	50871	194017	34984	84551	20773	71313	27672	126615	126972	61605	967546
154471	167288	1284671	19680633	1763368	687085	630575	34430	104450	146888	238061	140849	2008	166495	291606	212757	220616
133	132	139	152	266	100	157	139	121	143	154	138	128	135	141	141	7865981
23288	19880	77588	23062	5691267	963103	15539	10674	5793	674410	1729	2103	2002	38924	89219	89527	347808
21517	43615	323189	492513	327134	132302	503703	3536	3217	22692	12703	26268	14205	23807	64667	305889	74615
50755	144914	375493	1677336	1159479	1046622	133221	1118910	149423	487666	483	2573	1675	124392	157764	50044	25490
1412	11493	21447	25356	8956	4055	8523	4847	107831	6498	363	284	169	185041	105528	174087	22944
538188	213745	384691	719717	275866	136378	55181	138782	72487	2565058	84101	134152	24993	1171999	1096409	292366	280626
138286	52880	111222	246172	117893	72957	16075	76983	16605	142391	450552	28658	9579	2267047	1037429	298975	139011
1065496	171429	199592	344593	119965	93729	32535	165207	30308	237560	109855	776678	217913	653215	844899	510139	113825
33218	17663	28436	54877	13008	5857	7377	10077	8921	16750	2589	678909	528040	130220	165538	121277	24259
563706	357282	638235	1464913	989287	384035	138303	325094	152765	412251	26045	126134	19447	1150987	220734	389861	181812
1453679	893671	1307472	3097145	1665036	967338	338065	619309	336226	4331485	484814	450273	245875	6670363	11482333	3480050	670528
153644	64870	157217	311145	92399	41691	18913	37555	17941	181117	46778	33817	8689	389762	2320272	1307214	109752
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2694795	2603576	4778926	7779527	3768973	2762099	619472	1854459	804851	8570604	2900458	971914	482300	15538771	21514861	26234277	9084678
5034684	2268461	4060609	9652775	7694520	1840361	477958	2128558	754250	6963189	4924025	4615465	613385	17475622	41101713	6321061	359715

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1995

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1590513	5378	472	1	126179	16802961	839207	16	870615	5532	2901	1	208915	1	167430	76
2	1	1	1	1	1	1	1	1	1	1	1	1	9680	961020	1	194135
3	743	1	1	1	780670	33980	4173	1	1	2768	56180	1	298423	67	1416	2189331
4	1	1	1	1	1	1	1	1	1	1	1	1	189478	8862174	1	1
5	25455	1348	7835	1	29570	17578	5340	14128	1435	1112	3364	983	24380	5239	1783	8405
6	3344748	1	1	1	1	5964123	14810	9	1	1	10021	1	326428	1	868604	459
7	104778	67	861	1	44147	5093	5273068	4282455	2598	39712	55440	9604	19708	454	260933	17388
8	10061	373	934	1	59411	15722	7898	27790	1865	8851	4753	3358	16847	2190	6212	10985
9	160428	11269	12886	1	1959412	21436	5495	1190	904012	845778	82002	1164	19143	4278	2873	48940
10	258	7	42	1	466298	459	104	220	49	48368	15	2	338	47	124	212
11	60494	4	234	1	191746	701666	121385	118250	30278	131533	4388991	2091633	431801	689	79512	218026
12	15184	307	2476	1	121777	83283	30704	30503	2683	8972	47466	608912	158909	16265	32238	36893
13	1546513	5274	43892	1	712577	526404	3784590	78390	151723	192176	480495	267682	16374903	138868	443111	675776
14	548312	2025	102208	1	485469	239254	229385	94906	29289	26886	105377	41451	2791677	437238	25059	500620
15	3300	49	26	1	10484	215	540	861643	18601	19909	462	448	1888	1	1076443	94
16	13688	103	712	1	9826703	252757	7974	3872	6001	62365	46262	1373	363968	11316	8388	2845688
17	35931	3234	1994	1	6277807	9983	11093	628	865	122611	30190	786	223604	27544	2573	146949
18	37689	2623	7604	1	5358704	725409	42764	12893	16601	130867	23585	3259	327285	66560	55900	156224
19	250853	7420	50010	1	3381998	94766	213354	97043	21020	23825	56628	77884	310826	164311	20408	245973
20	70261	4759	7090	1	3042897	25744	19661	8748	3102	6281	11800	32918	54586	14378	3241	44457
21	75879	4502	94994	1	106461	59775	16285	12705	11610	3104	17830	27892	62667	7927	6580	144733
22	51564	606	1358	1	3780	315	828	130	341	234	12	3	936	705	170	429
23	60355	192	183	1	147179	5569	4452	1923	257	1082	2812	2908	49261	19249	852	6780
24	286252	1782	20771	1	1498501	936897	184753	171871	15514	157133	130194	84771	930504	14160	162730	121904
25	10896	90	829	1	24024	88353	21666	141830	2503	476	2965	613	12123	1186	40433	2630
26	424360	11292	54317	1	1349535	564826	193439	152476	151518	95352	114989	127068	673194	126800	63307	637118
27	75826	370	9734	1	188878	65917	35497	32202	11353	8863	36656	61262	105002	37072	13076	77628
28	73932	16589	90798	1	138399	292859	284304	34196	47054	19808	248118	45244	928850	138757	29590	545624
29	13268	80	3947	1	28294	71398	105257	14867	5347	4584	14177	5821	127442	10156	6115	22028
30	265033	3021	11072	1	2044085	1127561	312702	426656	116455	157242	322181	199686	1018003	60993	304928	304822
31	1862311	60111	279776	1	10663868	1848008	1196466	745547	163131	296172	548652	673123	2479553	417400	294538	871121
32	113307	2992	8419	1	552458	169309	92420	34591	8139	29432	36209	63345	775429	43583	35514	120545
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	2932053	164359	693117	1	21311195	4060540	3185438	2280295	600559	840343	1330391	2212599	4520676	669069	1103024	3015147
rK	19001207	-27126	1503886	1	14349270	8500081	2098000	1735197	417053	618337	1685736	1058055	7927529	6029030	561044	3130169

## Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1995

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
102	1	13	1	1	1	13	383295	38982	1	1	1	1	13219	28424	91259	28252
26270	1	1	1	1	1	1	1	1	1	1	673609	7951	1	1	332	66
1471040	2992	10071	32872	547	1042	685	2670	9015	1	1	1	1	1	227	866	6141
1	1	1	1	1	1	1	1	1	1	1	1	1189494	1	1	1	1
40519	13546	16032	34525	11434	1651	1582	7642	1595	19166	33679	726935	14543	121895	4888180	129933	1039398
1	1	171	1288	1	1	40	2162	106	1	1	1	1	1832	5384	40875	12666
5228	10595	11835	25692	226055	46588	2804	269009	213944	15391	1449	2191	210	22190	11341	51348	36370
18623	18525	40460	33634	21679	11428	2945	14171	3475	23701	5375	4062	1208	40167	63851	72280	63528
35381	90219	65640	60895	51308	83675	14255	11433	142980	13373	50	393	1	52213	8879	32684	15055
147	1551	3947	1648	225961	22396	384	832	614	7279	6790	17	163	64273	46441	121062	12854
9742	64293	61821	439515	33493	8042	30604	127596	97128	9698	2020	93	78	357143	84568	31556	46362
19128	34032	44706	171261	23179	10186	10917	50432	21621	138372	67327	7612	4640	445225	2366779	644372	268177
339446	349724	405893	2022209	475196	292161	61916	5112508	364893	239009	28524	208723	60447	101848	290454	2904485	220771
1393107	142746	152266	143216	128586	37024	14010	140471	31546	3992365	39129	1187761	295114	1277118	495524	489438	395405
692	2508	1201	6452	1183	513	6487	42	104774	716	1185	1	1	3004	1722	3397	1809
627985	69567	162967	1900632	255106	50236	73980	63781	48958	3098	861	4629	6535	47590	3298	59032	20199
24234412	6136778	4653588	3771010	2657522	1410101	148945	81390	229851	3684	-7	11254	38067	-8223	2379	66241	7665
134710	1493514	1318002	579270	640653	280421	57183	198236	72596	68912	2596	15518	2217	80874	20507	64900	94403
469818	396589	6943722	811048	1716976	1683952	60915	407109	31337	77147	4966	65077	39307	114140	275549	231211	1387983
106744	106117	1542849	24770516	2011868	511101	714847	26924	115795	152287	273991	165099	5329	223168	491898	507800	279829
42892	36762	148265	32609	13313227	52237	5107	30785	8412	980257	2379	5577	5313	90832	150016	129784	251626
2199	675	2526	1913	212	954704	125	265	136	402317	4573	446	118	4607	23782	70064	1534587
23984	26070	395963	485267	309561	210980	433188	3987	2877	22349	13920	24300	19935	23631	94620	477408	199394
85729	193218	612199	1512220	2082465	157176	135466	1420819	172059	581169	4531	22927	1403	195075	132178	121054	56054
2029	106320	7777	13974	2511	2664	4927	4970	122796	6533	13181	2566	114	144860	127003	216869	71771
473690	225295	416622	730895	280844	92800	57227	151330	82599	4490616	102664	130570	29143	1284971	1198298	376370	528758
118591	39317	67049	231734	79624	23599	15541	42625	13498	157785	405934	30661	9677	2735366	2496896	293357	354009
1287754	232225	210914	380963	268375	43093	36160	218130	50737	183117	137850	804911	232783	696823	986113	522384	321325
43123	24651	22843	70395	21740	2851	8693	16902	11263	15135	5607	809385	271299	183259	195514	180665	78359
672841	437151	865793	1812200	781268	300291	124281	286572	124220	359034	30656	56316	40388	512601	209033	481861	292058
1653196	768771	1443976	3010352	1778271	735485	443328	754320	388326	4377587	772587	306239	202869	9742292	16685283	4521410	1054374
320100	84255	472698	2086462	804289	80188	569020	54440	26367	272676	172564	212008	30927	367751	494716	1321350	176911
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3385762	3534142	5617696	8032030	5335171	1953205	824648	2374009	913277	10176946	3941976	1186769	521500	16159279	28146611	31835897	15492451
6283118	2151005	5057347	15256547	6746468	1238278	698665	2347831	730548	7453387	5969527	5258204	680837	21968522	46219357	7816382	648420

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1996**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1635901	5362	445	0	139237	18652281	998675	18	861383	5450	3225	1	236795	1	174770	80
2	1	1	1	0	1	1	1	1	1	1	1	1	12245	1412874	1	228054
3	755	1	1	0	850966	37261	4906	1	1	2694	61686	1	334128	87	1460	2276327
4	1	1	1	0	1	1	1	1	1	1	1	1	229108	12453764	1	1
5	26855	1378	7581	0	33471	20015	6518	16671	1457	1124	3836	1063	28345	7079	1909	9075
6	3610691	1	1	0	1	6948637	18497	11	1	1	11691	1	388327	1	951617	507
7	103255	64	778	0	46675	5416	6012275	4719977	2462	37485	59044	9696	21402	574	260966	17535
8	8758	314	746	0	55489	14771	7955	27058	1562	7381	4472	2995	16162	2442	5488	9786
9	153453	10448	11305	0	2010795	22129	6081	1273	831799	774908	84768	1141	20179	5241	2789	47905
10	260	7	39	0	504100	499	121	248	48	46683	16	2	376	61	126	218
11	59806	4	212	0	203378	748666	138845	130749	28795	124556	4689310	2118523	470433	872	79777	220580
12	14217	278	2126	0	122339	84166	33265	31945	2417	8047	48033	584146	163977	19506	30636	35353
13	1593626	5267	41482	0	787793	585435	4512186	90344	150396	189684	535099	282598	18594935	183273	463402	712626
14	635708	2276	108680	0	603864	299376	307703	123064	32665	29857	132035	49235	3566800	649249	29485	593970
15	2882	42	21	0	9824	202	546	841702	15628	16656	436	401	1817	1	954177	84
16	13442	98	641	0	10353148	267884	9060	4252	5669	58662	49096	1381	393879	14232	8359	2859765
17	35335	3083	1798	0	6623673	10596	12622	691	818	115497	32086	792	242329	34693	2568	147889
18	38322	2585	7091	0	5845786	796058	50309	14662	16238	127458	25917	3395	366728	86678	57685	162559
19	241166	6914	44095	0	3488332	98327	237319	104344	19439	21940	58835	76712	329304	202314	19912	241997
20	77328	5076	7157	0	3593036	30579	25036	10768	3284	6621	14035	37117	66205	20267	3620	50071
21	76210	4383	87503	0	114717	64794	18924	14272	11217	2986	19354	28700	69360	10196	6707	148759
22	46570	531	1125	0	3662	307	865	131	297	202	11	3	932	815	155	397
23	63296	195	176	0	165599	6303	5402	2256	259	1086	3187	3124	56931	25854	907	7277
24	285928	1725	19029	0	1605881	1010012	213518	192007	14907	150340	140544	86751	1024259	18114	164965	124610
25	10052	80	702	0	23778	87968	23125	146336	2222	421	2956	579	12325	1402	37855	2483
26	440785	11369	51745	0	1503918	633189	232472	177133	151393	94868	129081	135221	770576	168684	66735	677233
27	82879	392	9758	0	221493	77759	44891	39366	11936	9279	43300	68602	126477	51897	14505	86831
28	77753	16910	87579	0	156160	332409	345944	40222	47603	19954	282006	48749	1076506	186899	31583	587229
29	15945	93	4351	0	36481	92606	146356	19983	6181	5276	18413	7167	168781	15632	7458	27091
30	264290	2920	10126	0	2186893	1213521	360784	475845	111710	150193	347212	204007	1118699	77897	308597	311067
31	1952548	61088	269027	0	11995325	2091123	1451393	874241	164527	297436	621669	723036	2864877	560486	313403	934662
32	119401	3056	8137	0	624594	192556	112682	40768	8251	29708	41237	68388	900485	58821	37981	129995
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wL	2905459	157866	629921	0	22656784	4342631	3652138	2527206	572464	797625	1424737	2246269	4936615	849134	1109280	3057578
rK	19853208	-27471	1441122	0	16085217	9585146	2536239	2027706	419171	618834	1903495	1132593	9127888	8067883	594922	3346906

**Notes**

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)



## Gross Output 1996

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
117	1	13	1	1	1	13	418717	41083	1	1	1	1	13916	32741	106894	33018
33776	1	1	1	1	1	1	1	1	1	1	837099	11848	1	1	434	86
1674011	3252	10292	37117	540	1249	704	2881	9385	1	1	1	1	1	259	1002	7089
1	1	1	1	1	1	1	1	1	1	1	1	1694213	1	1	1	1
47880	15286	17012	40481	11740	2055	1689	8563	1724	22336	43440	830263	19917	131619	5775516	156112	1245994
1	1	185	1545	1	1	43	2479	117	1	1	1	1	2024	6509	50250	15535
5770	11167	11731	28139	216803	54158	2795	281562	216032	16754	1746	2338	269	22381	12516	57626	40724
18158	17249	35427	32541	18367	11736	2594	13103	3100	22791	5721	3828	1365	35788	62251	71659	62839
37906	92300	63151	64735	47763	94413	13794	11615	140135	14130	59	407	1	51114	9511	35603	16362
165	1671	4000	1846	221590	26621	392	891	633	8102	8364	18	214	66284	52407	138921	14717
10788	67984	61472	482910	32226	9379	30609	133979	98390	10591	2441	100	99	361365	93631	35528	52080
20061	34084	42104	178226	21123	11251	10342	50156	20744	143123	77075	7716	5640	426681	2481951	687138	285330
391779	385453	420686	2315900	476559	355139	64548	5595443	385279	272055	35935	232843	80857	107413	335193	3408460	258493
1809055	177014	177560	184537	145089	50636	16433	172976	37476	5112936	55463	1490804	444148	1515423	643398	646226	520892
677	2343	1055	6263	1006	529	5732	39	93768	691	1266	1	1	2685	1685	3378	1796
690721	73069	160964	2074320	243808	58193	73498	66524	49262	3361	1033	4921	8331	47831	3627	66017	22538
26693940	6455010	4603038	4121562	2543500	1635823	148189	85013	231616	4002	-9	11982	48596	-8277	2620	74187	8565
153416	1624269	1347922	654602	633972	336348	58823	214085	75635	77400	3226	17081	2926	84162	23351	75151	109068
505899	407803	6714326	866571	1606470	1909719	59248	415695	30869	81926	5837	67731	49054	112307	296675	253141	1516197
131586	124918	1707904	30298606	2154953	663555	795954	31472	130585	185139	368667	196712	7614	251380	606299	636467	349941
48251	39491	149776	36399	13013229	61888	5189	32839	8657	1087526	2921	6064	6926	93369	168737	148445	287157
2224	652	2295	1920	186	1017133	114	254	126	401370	5050	436	139	4258	24054	72064	1574824
28172	29243	417669	565595	315953	261005	459610	4441	3092	25890	17847	27588	27138	25364	111130	570178	237603
95912	206428	615056	1678744	2024408	185199	136894	1507353	176102	641241	5534	24792	1819	199427	147861	137703	63619
2097	104907	7216	14327	2254	2899	4599	4870	116075	6658	14866	2563	137	136772	131212	227841	75231
551091	250297	435259	843739	283903	113706	60137	166949	87911	5152380	130371	146824	39295	1366024	1393933	445208	624056
145184	45964	73711	281501	84700	30428	17185	49484	15117	190505	542446	36281	13731	3059977	3056435	365159	439662
1516902	261221	223104	445278	274689	53461	38474	243652	54676	212729	177241	916424	317795	750036	1161445	625653	383978
58045	31686	27612	94021	25427	4042	10569	21574	13869	20092	8238	1053033	423235	225405	263141	247262	107002
751502	466257	868377	2008390	758216	353237	125381	303517	126926	395481	37374	60796	52280	523158	233442	547216	330922
1941382	862104	1522730	3507742	1814509	909633	470244	839988	417181	5069837	990304	347593	276104	10454019	19591501	5398582	1256084
377810	94964	501012	2443558	824851	99679	606635	60930	28470	317401	222317	241861	42306	396623	583837	1585716	211827
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3757822	3745759	5599050	8845634	5145206	2283145	826723	2498577	927307	11139606	4775599	1273122	670819	16388431	31235861	35926602	17443660
7352949	2403831	5314782	17716036	6860213	1526197	738528	2605457	782125	8602262	7625363	5947683	923423	23492155	54082644	9300611	769805

**Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>**

**Gross Output 1997**

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1735384	5619	458	0	151058	20270738	1108129	20	900374	5687	3507	1	259005	1	186111	86
2	1	1	1	0	1	1	2	1	1	1	1	1	13781	1654563	1	250750
3	798	1	1	0	919527	40332	5422	1	1	2800	66810	1	364007	99	1548	2422670
4	1	1	1	0	1	1	1	1	1	1	1	1	254761	14409010	1	1
5	28694	1454	7851	0	36574	21909	7285	18453	1534	1181	4201	1143	31228	8115	2048	9767
6	3887575	1	1	0	1	7664563	20832	13	1	1	12903	1	431104	2	1028532	549
7	108106	66	789	0	49978	5810	6584262	5119589	2540	38600	63367	10225	23104	644	274278	18493
8	8777	311	724	0	56872	15166	8339	28093	1542	7275	4594	3023	16701	2626	5521	9879
9	158806	10681	11340	0	2128192	23462	6582	1365	848201	788740	89924	1189	21532	5819	2897	49938
10	274	7	40	0	543301	538	133	271	50	48387	17	2	408	69	134	232
11	62644	4	215	0	217867	803385	152123	141883	29719	128320	5034995	2234951	508078	980	83884	232735
12	14636	283	2122	0	128797	88762	35818	34068	2452	8147	50686	605635	174048	21543	31659	36658
13	1691303	5522	42673	0	855062	636521	5008986	99332	157274	197997	582134	302066	20348173	208674	493697	761824
14	697205	2465	115534	0	677318	336371	352989	139826	35300	32207	148438	54385	4033455	763923	32462	656184
15	2887	41	20	0	10062	208	572	873319	15423	16406	447	404	1876	1	959302	85
16	14049	101	650	0	11065945	286821	9904	4604	5838	60300	52598	1454	424448	15958	8770	3010606
17	36956	3185	1823	0	7084762	11353	13808	749	843	118806	34399	834	261323	38927	2696	155801
18	40506	2699	7265	0	6319272	862020	55622	16055	16912	132504	28080	3614	399681	98292	61207	173078
19	250212	7087	44344	0	3701351	104512	257544	112154	19872	22388	62573	80159	352277	225193	20738	252906
20	83653	5425	7505	0	3975175	33889	28329	12068	3501	7045	15563	40440	73847	23522	3931	54562
21	80194	4556	89250	0	123454	69850	20829	15558	11630	3091	20876	30417	75255	11511	7085	157677
22	47418	534	1110	0	3814	320	922	138	297	202	12	3	978	890	159	407
23	67535	205	182	0	180702	6890	6029	2494	272	1140	3486	3357	62633	29595	972	7821
24	300484	1791	19383	0	1725950	1087402	234708	209043	15436	155393	151402	91820	1109865	20423	174029	131909
25	10290	81	696	0	24893	92251	24760	155187	2241	424	3102	597	13008	1539	38899	2560
26	468957	11948	53362	0	1636369	690142	258705	195237	158709	99270	140774	144893	845314	192537	71273	725776
27	89492	418	10213	0	244596	86018	50702	44037	12700	9854	47928	74606	140814	60119	15723	94444
28	83021	17837	90642	0	170526	363617	386373	44493	50084	20955	308663	52424	1185180	214099	33852	631593
29	17633	101	4664	0	41260	104916	169295	22894	6736	5739	20873	7983	192453	18546	8279	30178
30	277636	3030	10311	0	2349479	1305990	396432	517862	115630	155179	373888	215843	1211721	87791	325426	329159
31	2083100	64381	278204	0	13087929	2285532	1619651	966261	172955	312099	679863	776903	3151449	641519	335644	1004433
32	127579	3226	8427	0	682525	210778	125937	45127	8687	31220	45166	73595	992070	67428	40738	139912
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wL	3046462	163518	640214	0	24295727	4664802	4005495	2745217	591449	822567	1531333	2372145	5337110	955198	1167587	3229362
rK	21159406	-28923	1488784	0	17532759	10465760	2827424	2238890	440202	648691	2079593	1215753	10030879	9225040	636502	3593142

**Notes**

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

## Gross Output 1997

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
129	1	14	1	1	1	14	452826	43905	1	1	1	2	14873	35981	118081	36455
38209	1	1	1	1	2	1	1	1	1	2	937421	13914	1	1	493	98
1833037	3510	10885	40533	565	1388	746	3103	9989	1	1	1	1	1	283	1102	7796
1	1	1	1	1	1	1	1	1	1	2	1	1965797	1	1	1	1
53018	16685	18195	44703	12417	2310	1811	9328	1856	24624	49263	910109	22896	141689	6392931	173694	1385632
1	1	200	1719	1	1	47	2721	127	1	2	1	2	2196	7260	56339	17409
6261	11944	12294	30449	224696	59667	2938	300529	227865	18098	1940	2511	303	23608	13576	62827	44377
18860	17660	35539	33705	18221	12376	2610	13387	3130	23567	6085	3936	1472	36135	64630	74783	65546
40654	97584	65418	69240	48930	102815	14331	12254	146103	15088	65	432	1	53295	10197	38368	17624
181	1799	4220	2010	231160	29521	414	957	672	8809	9356	20	242	70377	57214	152451	16142
11711	72749	64453	522790	33414	10337	32185	143069	103827	11446	2714	107	112	381360	101602	38752	56777
21402	35844	43386	189621	21525	12188	10687	52636	21513	152014	84212	8149	6247	442535	2646853	736583	305708
430911	417916	446911	2540268	500659	396611	68768	6053993	411936	297904	40479	253520	92326	114853	368532	3766862	285530
2056202	198332	194929	209176	157517	58437	18092	193402	41407	5785724	64563	1677401	524087	1674516	731018	738029	594591
703	2397	1058	6482	997	557	5763	40	94609	714	1345	1	1	2709	1748	3523	1872
748135	78015	168393	2240609	252234	63999	77110	70878	51868	3624	1146	5276	9368	50364	3927	71847	24516
28933428	6896922	4818915	4455152	2633283	1800295	155581	90643	244041	4319	-10	12856	54682	-8721	2839	80796	9324
168057	1753938	1426157	715115	663336	374105	62415	230692	80541	84411	3620	18523	3327	89628	25570	82717	119989
543960	432240	6973056	929225	1649888	2084936	61706	439682	32265	87700	6427	72093	54757	117396	318873	273489	1637253
147524	138055	1849425	33875964	2307660	755357	864366	34709	142317	206646	423304	218318	8862	273986	679479	716979	394010
52619	42454	157761	39586	13555118	68528	5482	35229	9177	1180735	3262	6547	7841	98988	183944	162660	314497
2347	679	2339	2021	187	1089797	116	264	129	421663	5457	456	152	4368	25373	76408	1668926
31151	31876	446081	623711	333707	293044	492274	4831	3323	28502	20211	30199	31154	27266	122837	633504	263859
104460	221624	647006	1823365	2105970	204802	144416	1614923	186444	695297	6172	26730	2057	211154	160976	150693	69586
2224	109708	7394	15158	2284	3122	4725	5082	119703	7032	16151	2691	150	141058	139145	242865	80152
607633	272048	463535	927768	298996	127298	64226	181077	94225	5655864	147219	160257	44980	1464258	1536362	493238	691033
162469	50704	79671	314155	90535	34573	18627	54472	16445	212242	621684	40192	15952	3328975	3419008	410590	494114
1678576	284947	238456	491392	290338	60068	41239	265225	58815	234360	200867	1003882	365083	806877	1284743	695652	426724
66525	35798	30566	107463	27835	4703	11733	24322	15451	22926	9669	1194709	503571	251144	301467	284741	123159
818154	500382	913126	2180552	788454	390473	132218	325049	134327	428651	41671	65521	59089	553706	254050	598603	361815
2146499	939617	1626149	3867772	1916273	1021189	503613	913595	448386	5580680	1121373	380446	316924	11236847	21653173	5997561	1394747
418365	103660	535855	2698470	872440	112075	650673	66371	30646	349916	252125	265124	48634	426973	646260	1764340	235569
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4083463	4012394	5876576	9585945	5340400	2519103	870174	2670830	979544	12051350	5314745	1369510	756762	17312958	33929700	39226881	19036500
8121677	2617336	5670055	19514805	7237695	1711650	790142	2830930	839786	9459545	8625948	6503311	1058880	25226006	59714000	10322166	853929

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1998

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1599538	4393	455	1	146248	21542034	879477	386	631806	7071	3179	1	214101	1	94450	128
2	1	1	1	1	2	1	1	1	1	1	1	1	7559	1811408	1	178906
3	874	1	1	1	484505	31234	12886	1	1	1223	70957	1	412060	767	2519	1830990
4	1	1	1	1	1	1	1	1	1	1	1	1	1	18444784	1	1
5	29717	1180	5181	1	26000	19335	9395	21320	1222	1143	5666	1083	28087	7816	2003	8800
6	4538638	1	1	1	1	7871678	20692	35	1	1	16862	1	434784	730	883275	668
7	114948	90	870	1	52690	7025	6505328	5489325	474	31468	131598	9558	23304	1102	252338	19275
8	6340	256	188	1	45522	10000	4231	21851	559	3841	1811	1372	11614	2501	1824	5022
9	158703	9293	11048	1	1698658	24063	5376	1319	789705	599169	121380	1224	18509	4319	1931	48274
10	301	6	18	1	424992	414	76	165	48	44143	24	2	358	115	160	238
11	60640	6	296	1	223168	798175	153510	156499	23871	97639	4951700	1930033	453055	3155	78198	184038
12	14908	228	1666	1	125152	94488	41150	50403	2154	7575	49917	582188	173778	27324	26618	29778
13	1954731	3571	23540	1	707463	626068	5242197	86659	136079	158226	602624	334172	22562476	368215	437682	611412
14	819803	2809	107887	1	802528	450662	398104	179032	46201	37936	204490	62998	5976400	1204380	41704	1052162
15	5506	90	237	1	19475	243	1015	426006	52	16846	2827	1042	3190	1	862171	835
16	11645	87	619	1	9408107	256352	13431	3931	5993	50246	54066	1485	323528	24824	12395	2828863
17	29493	2641	1068	1	6023110	10982	12325	1110	986	137412	21766	925	250910	36455	2726	155728
18	30551	2049	5463	1	6575097	694829	49885	15894	14007	114724	27354	2955	321862	149741	59115	122578
19	250486	6119	30073	1	2984468	93952	140809	50528	16811	19593	56259	43147	274094	204703	15162	217045
20	80204	4605	5714	1	3075881	32149	34111	14483	2091	7712	18763	27977	65142	29396	2957	45769
21	51477	4147	63098	1	127955	66848	20449	14923	10163	3199	21924	31013	64016	15052	6290	133577
22	35600	525	1498	1	4158	201	1082	284	294	207	45	3	512	1746	159	371
23	37024	144	151	1	183703	5571	6329	1443	293	1027	5182	2586	49307	29869	1044	7342
24	294712	1583	13783	1	1480034	1052053	251348	221686	13170	143614	161867	89405	1090397	38386	152648	138651
25	4937	59	474	1	28431	107747	17349	154770	1494	368	4956	896	7809	2534	39309	2216
26	367786	10817	45986	1	1564163	619124	259505	212156	104716	79301	139374	133285	760171	200887	59173	535980
27	109363	519	10349	1	338404	124546	88418	87057	17135	16040	66445	103999	207271	103077	20226	130873
28	181586	15772	89253	1	137719	401678	486164	66189	56745	22300	382865	51240	1372614	258252	34253	681877
29	16282	71	2727	1	35040	83497	205031	31606	6502	5341	25856	8224	281569	18703	8060	30942
30	276571	2493	5646	1	2269788	1271198	379826	522576	89204	128378	355891	162625	1254473	125733	237149	317939
31	3374450	87500	209701	1	11821414	2362531	1767934	1280546	204869	301792	804709	961098	3158999	742246	334030	1204417
32	144501	3216	6080	1	850146	158273	159834	62608	7635	34252	65533	158156	1297971	113306	55051	149733
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	2828228	126341	480657	1	27631458	4194771	3553186	2548473	397542	657391	1378078	2049412	4760324	1065594	1082815	2852703
rK	16901736	-50868	1176483	1	20362146	11384450	5376028	2468161	391725	396810	1923816	945899	9840470	11843205	588095	3535616

## Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1998

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
130	1	8	1	1	1	28	355686	27088	1	1	1	1	19051	29236	134892	33078
28240	1	1	1	1	1	1	1	1	1	1	1607792	16937	1	1	497	87
2774166	3720	12061	40917	595	908	684	2365	5996	1	1	1	1	1	385	848	7651
1	1	1	1	1	1	1	1	1	1	1	1	3003856	1	1	1	1
49609	13795	17362	42983	10535	2766	1490	9126	1676	19758	66133	780690	17514	70951	6735472	192629	2200257
1	1	214	2518	1	1	19	2626	137	1	1	1	1	933	8093	34524	19505
6286	10967	12057	38090	210390	82109	2748	320759	179131	19264	2907	3076	487	18928	19862	66901	44566
12353	8530	20494	23183	19610	7262	1475	8589	2054	16279	7075	3478	1138	28332	61718	73400	58317
34175	91906	62440	77441	45469	88537	5127	11760	101506	10824	94	554	1	39549	10507	32905	17873
105	1238	4173	2354	327194	34127	444	963	745	7308	8681	26	287	50388	60001	159063	13150
9311	65769	58997	505042	33538	7548	30484	137320	91854	12916	4181	202	168	402438	95130	39561	69269
20876	31929	43563	208457	21376	15258	10693	48270	20955	155077	103978	9683	6781	361631	2070377	846076	323686
338231	354915	356010	2778931	408135	295172	67189	6464007	338881	64210	31159	430909	95519	68252	409056	3446447	285961
2313279	240409	340694	389447	286296	82104	27362	281981	44831	5995733	107199	962570	427108	1585332	842215	1211188	838997
2173	2836	3638	26269	1823	421	8757	125	61623	2347	1962	1	1	3265	2210	16728	4452
781229	69579	192436	3217791	249399	77965	52477	56311	46839	3505	1910	11578	9923	36069	4802	53117	26194
30606419	5990833	4353108	4420386	2613982	1273105	134251	78237	272303	5807	-9	28736	45771	-10185	3676	74130	10003
137459	1820866	1324096	705030	571155	498215	53674	212692	72686	81409	5200	24966	3254	68329	21528	67222	146693
420068	427072	6671945	869781	1469529	1949296	49491	561784	25161	86715	8691	96209	52764	80900	212161	228212	1514437
140067	125515	1553608	42049264	1919987	730006	826413	33745	114126	210366	505330	220848	8571	184555	652855	536981	248270
42824	38442	159945	45170	11708142	52646	5167	33460	7015	972808	3437	5576	8682	75655	159382	166787	302046
2524	648	1611	1654	238	1419521	121	230	113	368781	6264	736	155	2617	21657	29913	1192419
29065	25353	339013	633822	251575	675084	733343	4758	2858	33296	25254	29589	26360	24874	97149	627468	87590
92031	215415	610472	1902419	2153544	205761	149494	1547116	190546	476524	5488	27291	2113	167129	116137	135934	77196
1704	110204	5716	12398	2444	3888	5023	3994	157164	4934	15444	2195	145	92402	83604	189422	52664
522036	250154	425579	863548	239145	104804	58691	148277	73989	7980449	150863	128961	41318	1220442	1290390	483551	699849
235335	81470	129921	489826	137761	41376	22125	85098	18319	253060	1325188	51024	24916	2999326	2800788	635365	727118
1934863	308292	298203	573835	272680	62610	36590	274184	58579	200436	201048	850825	319354	665621	1366200	829596	477838
76436	40037	32219	139361	34377	4480	10247	28783	11624	18157	7481	1562500	728377	252627	302440	354540	198439
722427	460776	813011	2214420	752982	360868	136730	305651	119750	399891	48297	71960	56792	903795	244673	613362	252181
1839643	1070415	1418954	4392006	2113814	726164	427224	946445	399799	6319988	1411844	578494	256354	12579191	21092719	7832863	1683955
484715	121561	598515	2572792	826658	120475	480045	79179	37871	350134	285920	230138	45128	437606	705741	1954414	265775
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3545530	3740668	5025860	9734088	5021046	2570289	825885	2534891	934652	10989477	5415072	1484819	740391	16623532	34296872	40579698	19613602
8626468	3291538	4370101	17049640	3813425	3266304	676212	2420462	836908	10893061	10383092	7162290	1715664	22790685	71330784	11657953	1244423

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 1999

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1732384	5007	508	0	160274	21555254	945579	380	713657	9620	3669	1	245432	1	93242	142
2	1	1	1	0	1	1	1	1	1	1	1	1	5627	1503766	1	128629
3	772	1	1	0	432716	25470	11291	1	1	1356	66731	1	384953	799	2027	1652191
4	1	1	1	0	1	1	1	1	1	1	1	1	1	22485750	1	1
5	21833	913	3920	0	19329	13124	6852	14249	936	1055	4436	899	21841	6779	1341	6610
6	6305325	1	1	0	1	10103367	28537	44	1	2	24960	2	639321	1198	1118509	949
7	122500	101	955	0	56818	6916	6882174	5321400	527	42123	149428	11509	26286	1386	245119	20999
8	7790	330	238	0	56598	11352	5161	24423	716	5929	2370	1905	15104	3627	2043	6308
9	144239	8889	10341	0	1562156	20205	4850	1090	748546	684024	117542	1257	17805	4634	1599	44854
10	308	7	19	0	439434	391	77	153	51	56660	26	2	387	138	149	249
11	57640	6	290	0	214644	700939	144852	135317	23664	116578	5014988	2072857	455806	3540	67752	178840
12	13891	223	1598	0	118003	81345	38065	42723	2093	8866	49560	612968	171393	30056	22608	28368
13	1911078	3675	23702	0	699868	565497	5087786	77069	138752	194310	627752	369149	23347574	424944	390042	611105
14	832115	3000	112777	0	824243	422612	401139	165302	48908	48367	221155	72250	6420618	1443032	38584	1091810
15	6081	105	269	0	21764	248	1113	427989	60	23370	3327	1300	3728	1	867957	943
16	10255	81	561	0	8383859	208581	11742	3149	5505	55583	50734	1477	301575	25807	9950	2546966
17	27624	2604	1030	0	5708304	9503	11459	946	963	161665	21722	979	248741	40306	2327	149115
18	30785	2173	5670	0	6704058	646859	49901	14568	14720	145209	29369	3364	343280	178112	54297	126275
19	244492	6286	30230	0	2947607	84724	136438	44863	17114	24022	58509	47585	283169	235855	13490	216582
20	78529	4745	5762	0	3047372	29081	33155	12899	2135	9484	19574	30951	67509	33975	2639	45814
21	52498	4450	66271	0	132040	62985	20702	13844	10810	4098	23823	35736	69100	18120	5847	139268
22	37710	585	1634	0	4457	196	1138	273	325	275	50	4	574	2184	154	402
23	36501	149	153	0	183255	5074	6194	1294	301	1272	5443	2881	51451	34760	938	7400
24	301439	1704	14519	0	1531772	994159	255212	206260	14049	184512	176404	103325	1180454	46346	142316	144982
25	4796	60	474	0	27948	96705	16731	136770	1514	449	5129	983	8029	2905	34808	2201
26	329841	10210	42473	0	1419426	512984	231036	173077	97944	89333	133181	135060	721580	212667	48372	491415
27	111497	557	10865	0	349099	117311	89487	80737	18220	20541	72178	119801	223663	124049	18796	136406
28	170197	15557	86153	0	130612	347827	452350	56433	55469	26254	382353	54265	1361696	285727	29263	653378
29	13803	64	2381	0	30058	65398	172553	24374	5749	5688	23356	7877	252654	18716	6228	26818
30	318538	3022	6696	0	2645216	1352648	434273	547494	107150	185725	436738	211632	1529254	170940	248965	374360
31	3009641	82132	192615	0	10668474	1946731	1565316	1038919	190565	338100	764717	968542	2982117	781446	271556	1098194
32	138717	3250	6011	0	825798	140373	152318	54671	7644	41302	67030	171547	1318825	128396	48171	146949
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wL	2548141	119797	445987	0	25190335	3491678	3177979	2088641	373550	743974	1322918	2086303	4539510	1133287	889253	2627582
rK	15326462	-48545	1098689	0	18683372	9537608	4839451	2035910	370466	451979	1858764	969157	9444739	12677066	486094	3277678

Notes

1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method

2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)

### Gross Output 1999

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
145	1	11	1	1	1	36	436437	31682	1	1	1	1	28921	38740	175191	41482
20335	1	1	1	1	1	1	1	1	1	1	1349248	14000	1	1	419	71
2507044	3427	12878	43864	671	806	711	2365	5716	1	1	1	1	1	416	898	7819
1	1	1	1	1	1	1	1	1	1	1	1	3646241	1	1	1	1
37318	10579	15431	38356	9893	2043	1289	7596	1330	15475	63738	684425	15124	73066	6054390	169710	1871788
1	1	360	4249	2	1	30	4133	205	1	2	2	2	1817	13756	57514	31377
6859	12199	15543	49302	286592	87940	3449	387272	206158	21886	4064	3911	610	28274	25897	85495	54993
15540	10940	30463	34598	30799	8967	2135	11956	2725	21323	11404	5100	1644	48795	92781	108151	82971
31802	87187	68650	85484	52823	80870	5489	12109	99629	10488	112	600	1	50382	11683	35862	18809
109	1321	5159	2921	427369	35047	534	1115	822	7961	11637	32	344	72170	75013	194911	15559
9062	65253	67839	583059	40748	7210	34128	147879	94289	13088	5213	229	187	536177	110630	45093	76239
19917	31055	49106	235923	25460	14288	11736	50958	21087	154050	127100	10767	7427	472329	2360351	945412	349247
338572	362183	421051	3299811	510036	290022	77369	7159760	357795	66922	39962	502705	109762	93530	489289	4040536	323721
2404073	254704	418330	480111	371444	83753	32711	324264	49141	6487733	142736	1165851	509545	2255472	1045895	1474216	986068
2457	3269	4860	35238	2573	467	11392	157	73499	2764	2842	1	1	5054	2986	22154	5693
704441	63961	205016	3441900	280750	69006	54434	56185	44548	3291	2206	12167	10272	44525	5175	56095	26711
29351040	5856858	4932255	5028577	3129486	1198376	148102	83020	275431	5798	-11	32116	50388	-13371	4212	83260	10848
141819	1915159	1614043	862863	735654	504539	63703	242812	79097	87451	6873	30019	3853	96507	26540	81227	171158
419804	435106	7877982	1031125	1833434	1912155	56896	621235	26522	90230	11128	112055	60533	110682	253361	267114	1711613
140416	128275	1840167	50004959	2402915	718331	953039	37432	120674	219578	649053	258027	9864	253281	782065	630478	281470
44716	40921	197324	55950	15262396	53958	6206	38660	7726	1057630	4598	6786	10407	108146	198866	203971	356677
2738	716	2064	2128	322	1511189	151	276	129	416446	8705	930	193	3886	28068	37997	1462563
29338	26089	404310	758935	317023	668865	851537	5314	3043	34993	32661	34808	30545	34372	117178	741796	99987
96379	229980	755350	2363345	2815532	211508	180096	1792789	210473	519592	7364	33309	2540	239605	145333	166727	91425
1695	111747	6717	14629	3034	3796	5747	4396	164884	5109	19681	2545	165	125822	99368	220666	59239
479354	234169	461711	940623	274143	94460	61995	150657	71659	7629813	177485	138008	43553	1534158	1415866	520030	726752
245655	86697	160234	606533	179525	42394	26568	98291	20169	275038	1772313	62073	29857	4286076	3493531	776768	858362
1856797	301608	338113	653244	326683	58976	40393	291150	59293	200272	247195	951580	351813	874457	1566659	932419	518587
66347	35428	33042	143496	37252	3817	10232	27645	10642	16410	8319	1580649	725782	300193	313696	360429	194795
851911	553932	1132746	3097666	1108523	417702	185480	398828	148945	490991	72970	98897	76881	1459043	344772	847125	336310
1679930	996498	1530950	4757672	2409816	650894	448793	956340	385079	6009038	1651844	615669	268734	15725626	23016329	8377380	1739062
476422	121805	695048	2999739	1014356	116230	542775	86114	39261	358320	360059	263623	50918	588824	828888	2249839	295423
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3270665	3517796	5477727	10651828	5782407	2327313	876411	2587459	909401	10555118	6400056	1596318	784045	20993063	37805529	43842345	20461577
8009206	3115458	4793834	18777839	4420090	2976672	722224	2486646	819568	10530222	12351161	7749958	1828581	28967529	79136960	12676776	1306626

Input-Output Table by 33 sector (1983-2000)<sup>1)</sup>

Gross Output 2000

Sector	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1703896	4077	473	1	219728	21731859	567766	55	651560	7818	2683	6	200225	1	86387	68
2	1	1	1	1	1	1	1	1	1	1	1	1	8806	929874	1	153668
3	803	1	1	1	348891	25964	1348	1	72	2131	59594	1	326124	781	2041	1658768
4	1	1	1	1	1	1	1	1	1	1	1	1	1	27223604	1	1
5	24444	1148	3846	1	24092	26280	12286	15085	1481	1325	6365	1540	35224	7894	2065	9729
6	3615059	1	1	1	1	7237136	32820	1	1	1	19564	125	354323	990	785147	859
7	107288	74	501	1	55566	8912	7309236	5341298	910	53269	151492	15625	39110	1179	422685	25272
8	5436	170	142	1	40878	12947	5160	219564	1364	6078	3241	2265	14029	3568	2175	5483
9	154816	8973	8211	1	1366599	33744	10023	1092	820014	810046	102570	1385	25885	4112	2213	40593
10	144	1	18	1	389418	983	261	637	6	89081	65	1	223	20	30	309
11	78629	6	179	1	210066	832625	142931	127162	31156	121102	5436392	2376252	417114	4029	69930	171271
12	13625	147	1131	1	109595	86391	36958	46764	2253	8682	56465	932482	171110	34421	25375	24131
13	2031156	1797	19800	1	811621	475245	5048163	80690	172700	211082	664939	405508	24077183	530843	438462	537597
14	1019067	3433	152876	1	1018345	543033	407044	162633	58100	67517	240169	85239	8048134	1562270	50495	1223295
15	3210	1	133	1	20430	3145	21836	458933	160	23327	2729	777	3266	14	919536	1466
16	12311	154	671	1	8431145	340646	9407	3914	6141	62972	60103	1687	423502	18421	13474	2785929
17	32383	3532	119	1	5340285	15353	8980	53	1018	237271	22182	1767	323607	40198	2333	146005
18	30932	2456	4275	1	6643565	711935	61994	19512	33289	206490	30583	7376	412639	205064	64920	137300
19	189188	5625	20514	1	3321978	111187	137154	41841	17039	30691	90713	72650	292745	246528	15386	214043
20	71628	5105	4842	1	4044866	22177	24738	10029	6862	17855	20727	41652	61915	31669	3262	61099
21	22961	3400	36049	1	102907	38267	11752	7146	6726	4612	15331	22951	49695	12365	4099	88362
22	106997	682	1309	1	1874	31	40	8	241	188	31	1	281	1099	12	201
23	41080	113	129	1	205986	8121	4200	1439	277	1275	6738	3206	72268	41461	872	7448
24	341276	2788	7993	1	2090788	1179629	330064	188967	14576	206096	176623	117691	1038348	45435	147892	143590
25	4166	42	328	1	32516	109029	18530	135978	1183	521	3713	693	9110	1238	40643	1517
26	285449	3076	29715	1	875728	574411	249713	257499	73890	48494	149573	180005	755869	267448	61621	346826
27	107070	697	10505	1	355090	148058	94316	106993	20306	19546	79318	141181	230116	92526	23405	143563
28	95385	15227	75119	1	167135	322086	423663	14448	62629	29361	390217	63035	1614341	382171	25025	606746
29	13691	113	2054	1	52716	85600	136333	19517	4258	4180	22172	8369	333677	14054	5205	30331
30	414353	4476	12666	1	2284826	1925217	527869	551098	95456	215306	356291	313572	1601233	108650	183461	327481
31	2169278	58735	280702	1	10654122	2414360	1127765	912233	129659	286970	740538	993962	3921789	866199	271402	1106541
32	117538	3161	7225	1	920039	253462	138088	54992	11822	32836	76060	167452	1300446	123550	57821	149194
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wL	3038241	120224	415575	1	24659325	4230920	3997689	2181308	429315	850980	1359367	1914228	4920135	1212149	1056767	2506586
rK	19068340	-17656	1035092	1	15704367	10533109	4442612	847418	434948	727452	1920502	943897	8849051	14906877	355541	2888135

## Notes

- 1) The tables are annual Input-Output Tables by 33 sector(1983-2000) generated by RAS method
- 2) The last two rows of each table are compensation to Labor (row 34 : wL) and rental payments to capital (row 35 : rK)



## Gross Output 2000

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
92	80	2	1	1	1	21	248055	29288	1	1	1	157	2105238	16068	170334	14668
53116	5	4	1	1	1	1	1	1	1	1	1312027	55666	1	1	374	1
2334382	7869	10384	32805	1508	811	268	2952	7160	4	1	132	36	8590	498	1455	2525
1	1	1	1	1	1	1	1	1	1	1	1	4635834	1	1	1	1
39123	14373	23969	50142	13719	3101	1818	13343	1685	24843	93363	864589	19148	269685	6161502	325770	265049
1	28	180	515	1	1	1	3080	48	1	1	1	1	11406678	5502	96609	9301
7373	12873	15805	124477	628530	74658	6723	344870	226961	22452	3842	2448	532	63816	22246	107835	27662
11505	8221	19818	25348	14946	8465	2456	6369	3392	24082	8217	4399	1129	124235	46180	97006	156423
37992	83586	82130	92126	61248	83037	7835	14255	87644	15691	302	1324	1	71089	9255	39142	8221
38	1019	3902	3603	579825	31319	1879	318	840	10014	10216	22	396	122912	104393	243439	17453
15731	73803	82748	650863	46092	7697	33087	174085	124993	13613	7236	242	216	358557	123745	56073	23167
18543	30759	44023	261088	30038	16097	14135	55546	23958	135037	131093	8760	6899	396124	2928194	968149	316015
354429	398917	486026	3664808	628857	343514	89747	7473146	410269	75013	21575	436762	146177	89834	401897	7182300	228182
1619747	347234	466913	506527	468400	103185	37983	364509	63146	8330962	146483	1689046	369700	2467851	1111992	1655251	733311
1578	2353	6639	30089	14360	1137	12289	598	64554	3431	1834	1389	222	25106	6686	16834	2376
722663	64033	153333	2067072	359979	96519	143550	65127	86373	4925	2457	15275	11226	101648	6523	85780	16418
29635920	6171356	5313171	5357258	3823413	1524157	176934	87543	366736	12312	-5	12387	48305	-14476	3198	96545	9157
204652	2082988	1878674	1233586	1042568	613121	130718	229489	101633	88288	6702	26251	6703	97277	80104	112558	115456
464906	434617	9540938	1238003	2534785	2054992	74944	695024	35664	86819	7446	143427	72325	117915	187562	279718	1387909
130058	115307	2328294	58801688	3067521	717988	1229673	49513	144440	223131	839415	278057	11156	305887	711834	1030489	298103
25684	30305	166298	46196	19312177	58618	5222	31258	6815	1090222	7815	6087	9216	84203	150918	1398207	83587
259	43	863	885	276	1541035	22	26	58	825367	11684	239	88	6346	15879	51203	1534737
30430	29253	517439	1273653	380503	651576	982203	5826	3083	29897	35108	31781	28038	31956	115479	628534	89782
91644	266678	857579	2933641	3428510	228689	228988	2111949	240284	354516	7388	28732	3284	207711	97285	529004	57636
1336	85051	4904	14859	3152	2821	4460	4081	266258	5647	21965	1985	262	187407	76227	222933	45735
517702	198241	428625	890698	399951	110629	71570	171128	78668	8971355	179035	58552	33806	1555541	1294115	527258	568594
135866	59644	131667	556509	173112	45905	34401	103158	32733	360233	5234377	50861	31206	3616773	4567344	946135	472068
1919887	269199	338132	798267	415005	77302	47328	370234	67437	193611	282718	784420	364314	1445358	1681438	1131779	457684
88437	41110	33804	120872	39365	3370	7697	33254	8178	23303	14038	1529960	619751	523688	325547	370389	151920
686302	478482	1098822	4174857	1533531	456714	245373	498226	184260	488935	137986	78512	55405	3947586	480530	1454699	398363
1854058	806944	2236366	6580441	2179381	941323	555358	1093978	330584	4733705	2798415	898723	482804	13582572	27710847	9265139	2426529
563211	148234	696886	3070221	894445	130669	446038	126428	32455	581206	873784	281825	61954	701402	1665812	2323692	375243
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3735229	3830041	6199108	11904501	6025929	2334848	896439	3034810	860180	11570082	6631474	1467616	784391	25994135	43802295	45553038	19569487
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