5. Modifications of Program Attendent upon Connection with Sub-Data Bank

The development of a sub-data bank capable of storing macro-energy data at the national level enabled simultaneous calculations of data of individual balance tables covering multiple years. Results of these calculations can be stored in the sub-data bank. Data can be called out when necessary. This means that it is possible to output data covering a certain period in a form of table corresponding to a required balance table.

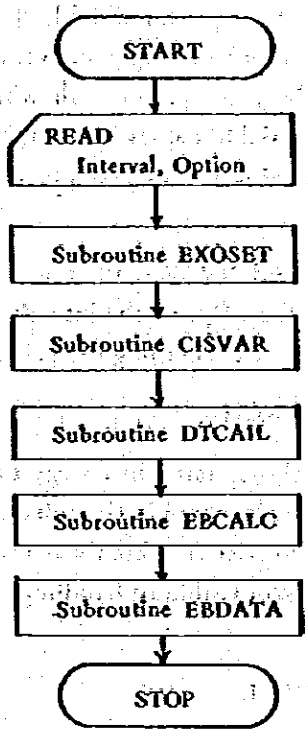
To realize such a possibility, a new calculation system for balance tables was prepared by comprehensively modifying the original calculation system.

A. Program to calculate balance data for multiple years and register the results in sub-data bank

In accordance with a review jointly made with Indonesian staff, data to be stored in the sub-data bank in the future will be only those on a quarterly basis which will be obtained by adding up data contained in the energy supply-damand data bank. Accordingly, results of calculations made by using the energy balance system are to be registered in the sub-data bank four times a year in principle. On the other hand, the data stored in the sub-data bank will be called out to print out individual balance tables as many times as required. In addition, it is uncertain when printing out of balance tables become necessary. Taking these points into consideration, the original program to prepare an energy balance table, whereby all the processes up to the process of printing out were integrated, was divided into two different programs; one to calculate balance data covering multiple years and register the calculation results in the sub-data bank, and the other to call out balance data stored in the sub-data bank and print out required tables.

The program, designed to calculate balance data covering multiple years and register the calculation results in the sub-data bank, functions by causing subroutines to work out in order as shown in Fig. 12.

Fig. 12 Program to Calculate Balance Data Covering Multiple Years and Register Calculation Results in Sub-Data Bank



(1) Preparation of subroutine BXOSET

Names of variables to be registered in the sub-data bank should be, in principle, decided based on the codes given to individual categories and individual types of energy or those prepared specifically for classification which were carefully decided during the first stage of the implementation of the data bank program. However, due to a strong request made by Indonesian staff, names of variables to be registered in the sub-data bank were decided based on a different rule. This results in discrepancy between variable names of the basic energy statistics stated in energy balance equations and those registered in the sub-data bank.

The subroutine BXOSET was newly prepared to solve this discrepancy. The new subroutine is designed to read out from the permanent file a table containing variable names stated in energy balance equations and those registered in the sub-data bank in parallel. The subroutine then stores variable names stated in energy balance equations in the area of NBXO dealing with names of exogenous variables, variable names registered in the sub-data bank on a calendar year basis in CNBXO, and variable names registered in the sub-data bank on a quarterly basis in QNBXO.

(2) Modification of subroutine CLSVAR

The subroutine CLSVAR was given no comprehensive modification but a minor one. Under the original energy balance system, the subroutine CLSVAR reads out balance equations and classify resultant variables into "exogenous variables" of which calculations can not be made without given additional data and "endogenous variables" of which calculations are possible. Under the new energy balance system with which a new subroutine EXOSET dealing with setting of exogenous variable names is incorporated, the subroutine CLSVAR makes only the cross-check of variable names and prepares only those tables related to endogenous variable names.

Concerning subroutines READEQ and NVAR affiliated with the subroutine CLSVAR, no essential modification was made, either. Due to the introduction of a new method to define arrays, minor modifications were made concerning the subroutine NVAR.

(3) Modification of subroutine SEARCH

Among exogenous variable names, those stated in energy balance equations are stored with the use of array of two, while those registered in the sub-data bank with the use of array of three. Accordingly, the subroutine SEARCH, which was originally designed to handle only array of two, was modified to be also capable of handling array of any numbers other than two.

(4) Preparation of subroutine DTCALL

The subroutine DTCALL is designed to call in the basic energy statistics required for the calculations of individual balance tables from the sub-data bank and store data covering a certain period to be calculated in VBXO which is linked with the area dealing with exogenous variable names set by the subroutine EXOSET. In this subroutine, a reference program RBTRVL which was prepared specifically for the sub-data bank is called.

The basic energy statistics required for calculations of energy balance tables are classified into the following ten categories.

1.	Data on production	P*******
2.	Data on import	I*******
3.	Data on export	E*******
4.	Data on stock	W*******
5.	Data on transformation	T*******
6.	Data on own-use	H*******
7.	Data on loss	L*******
8.	Data on auto generation	A*******

9. Data on consumption C*******

10. Data on heat quantity scale factors F*******

These categories are used in making a reference. For instance, when a reference of "P*******" is made, all the data preceded by "P" and registered in the sub-data bank are referred. These data called out are checked one by one by subroutine SEARCH which refers to a table containing exogenous variable names. When there are names which accord with those contained in the table, values are stored in the corresponding position of VEXO

(5) Modification of subroutine EBCALC

The logic of the subroutine EBCALC is exactly the same as that under the original system. Under the new system, however, DO loop is inserted into each step to make calculations covering multiple years.

Among various processes of the energy balance program, the process to decode data contained in balance expressions a letter by a letter requires the longest CPU time. This operation should be conducted at least twice by subroutines CLSVAR and EBCALC. Not to cause further increases in the number of the aforementioned operation, DO loop is arranged to complete calculations of required periods each time an equation is decoded.

(6) Preparation of subroutine EBDATA

The subroutine EBDATA is designed to input results of calculations made by the subroutine EBCALC into the permanent file in accordance with the input format 2 of sub-data bank. For this operation, the table containing endogenous variable names are checked up from the beginning and variable names starting with three-letter initials of "EBC," "CBC" and "CTC" are extracted. As for energy balance data and concise energy balance data, such items as the unit of TCE, scale 3, the period when calculation was initiated and the number of data constituents are added to them prior to the output of calculated numerical values into the permanent file. As to commodity balance data, the column numbers are first extracted to call out units and scales peculiar to individual types of energy which have been prepared by data statements. They are output into the permanent file together with such items as the period when calculations were initiated, the number of data constituents and numerical values obtained by calculations.

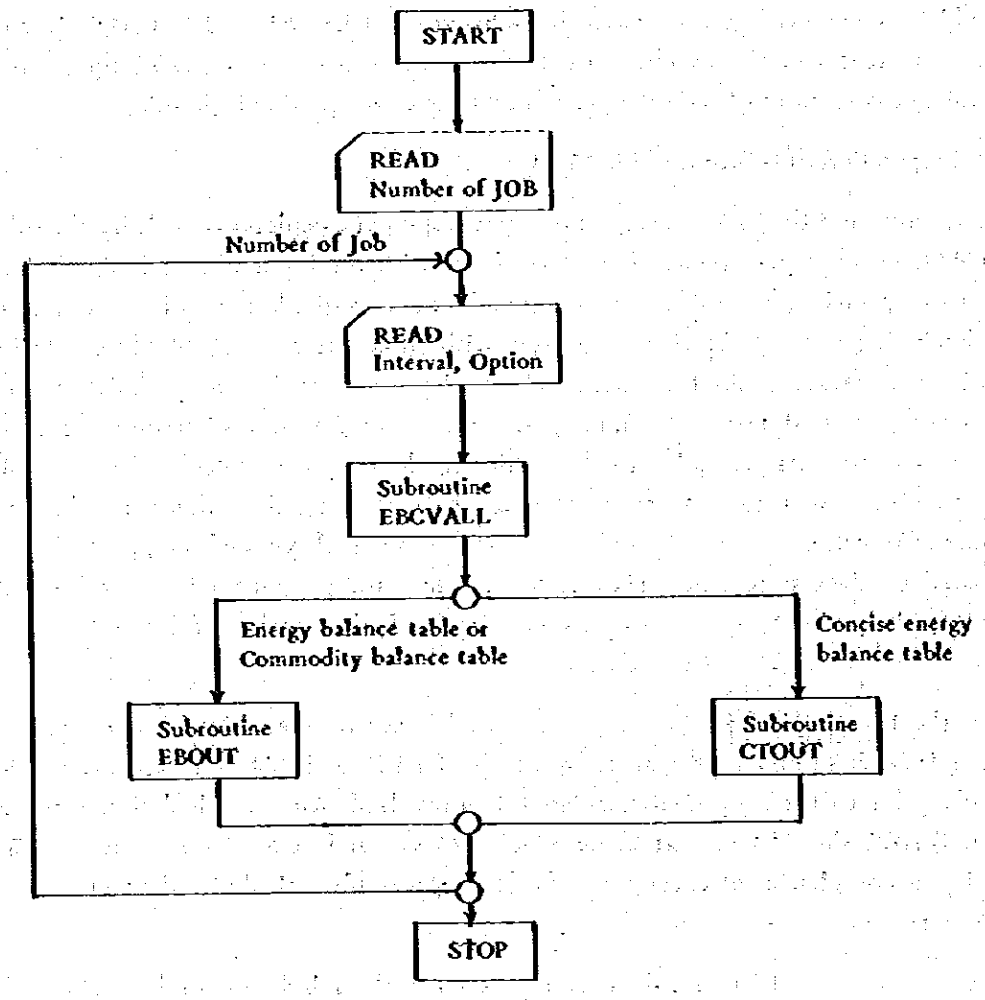
When the balance data in the calculated period is not registered in the sub-data bank yet, option IFNEW should be set at 1, by which "REST" and "ADD 2" are written down in the file prior to the output of calculated data involved. When a calculation is to be made again, IFNEW should be set at 0, by which "REST" and "CNG" are written down in the file. Upon completion of extraction of calculation results, "EOD" and "LST" are written down in the file.

Calculation results of balance data are registered in the sub-data bank by calling out from the permanent file using a program designed to renew the data to be contained in the sub-data bank.

B. Program to call out balance data from sub-data bank and to print out tables

Under the original system, balance data are obtained either by manually reading out cards containing the basic energy statistics or by summing-up micro data contained in the energy supply-demand data bank. This means that the original system is most suitable for printing out a balance table covering a single year for each time of calculations. The sub-data bank system developed under the fiscal 1980 program is capable of accumulating balance data and makes it possible to develop a program allowing simultaneous output of multiple numbers of balance tables which has been strongly requested by Indonesian staff. The program to call out balance data from the sub-data bank and print out tables has a sub-routine flow shown in Fig. 13.

Fig. 13 Program to Call out Balance Data from Sub-Data Bank and Print out Tables



(1) Preparation of subroutine EBCALL

The subroutine EBCALL is the program to call out such data as energy balance data, commodity balance data and concise energy balance data from the sub-data bank. Integrated into the subroutine EBCALL is a reference subroutine RETRVL which refers to the sub-data bank to call out data required for printing out tables. References are made in the following forms.

1. Energy balance data
   EBC**R**

2. Commodity balance data
   CBC**R**

3. Concise energy balance data
   CTC**R**

Also, the summing-up function attributed to the subroutine RETRVL permits transformation of terms of data stored in the sub-data bank into those appropriate for calculations.

Balance data referred to can be stored in the array of VAL (1000, 20) up to 1,000 constituents and 20 periods. Extracting the numbers of rows and columns based on variable names, of which numerical values are used for storing data in a two-dimensional array of VP having the same form as balance tables, positions of numerical values contained in VAL are stored.

Numerical values thus calculated and stored in VAL and VP are COMMON, which are transferred to subroutines EBOUT or CTOUT.

(2) Modifications of subroutines EBOUT and CTOUT

The subroutines EBOUT and CTOUT are remained exactly the same as they were under the original system, except that the index was newly incorporated to control an additional dimension of balance data which was required for printing out data covering multiple years.

GENERAL MANUAL OF ENERGY SUPPLY-DEMAND FORECAST I

CONSTRUCTION OF ENERGY SUPPLY-DEMAND FORECAST MODEL

GENERAL MANUAL OF ENERGY SUPPLY-DEMAND FORECAST I

– Construction of Energy Supply-Demand Forecast Model –

1. Establishment of Energy Supply-Demand Forecast Method

To construct an energy supply-demand forecast method for the Republic of Indonesia, we conducted operation in accordance with steps outlined below.

To start with, it was agreed basically during the first-stage joint work that a method used by The Institute of Energy Economics for preparing Japan's medium- and long-term energy supply-demand forecast model would be adopted as a method to be used for our preparing Indonesia's medium- and long-term energy supply-demand forecast model as part of this project.

Secondly, to our counterpart in Indonesia, we explained Japan's medium- and long-term energy supply-demand forecast model from various aspects including its outline, methods and variables, equations and systems introduced in the model.

Unfortunately, during this stage, no significant progress was made in the field of data collection on macro-economics and it was not possible to construct a macro-economic forecast model. Accordingly, all the macro-economic variables were processed as exogenous variables. Also, because Indonesia's energy balance table was available only for 1978, a tentative measure was taken. That is, data shown in an energy balance table contained in "Workshop on Energy Data of Developing Countries" prepared and published by OECD were newly aggregated in 17 energy resources and 16 energy supply and consumption sectors which was used in our operations.

Furthermore, Indonesia's medium- and long-term energy supply-demand forecast tentative model was constructed by estimating about 10 constitutive equations in respect to the final consumption sector in addition to definitive equations. The number of equations used for constructing the model totaled 102.

Finally, a tentative forecast was made on Indonesia's energy supply-demand for a period up to 1985. A primary purpose of our joint work in the first stage was not to produce plausible figures by making a forecast but to master methods and processes of forecast. In this light, it is considered that we achieved satisfactory results by and large.

Then, during the second-stage joint work, we conducted operations based on results gained through the first-stage joint work. In other words, we were primarily engaged in enlarging and filling up such results.

First of all, we conducted collection and classification of macro-economic data, which could not be carried out during the first-stage joint work, and constructed a simple macro-economic forecast model consisting of 26 equations drawn up from the collected data.

(2)

Secondly, data shown in Indonesia's energy balance table prepared by a softwear team were newly aggregated into 25 energy resources and 18 energy supply and consumption sectors to prepare a simplified balance table, which was used to construct an energy model consisting of 175 equations. After these operations, the macro-economic model and the energy model were linked, based on which Indonesia's medium- and long-term energy supply-demand forecast model (number of equations; 201) was constructed. Finally, a final test was conducted on a seven-year period from 1972 to 1978. Also made was a forecast on a twelve-year period from 1979 to 1990. Under a close cooperation with the software team, processes of the test and the forecast were made into the form of programming.

A primary purpose of the second-stage joint work was to solidify a fundamental framework of Indonesia's medium- and long-term energy supply-demand forecast model. It is considered that we could achieve the purpose to some extent.

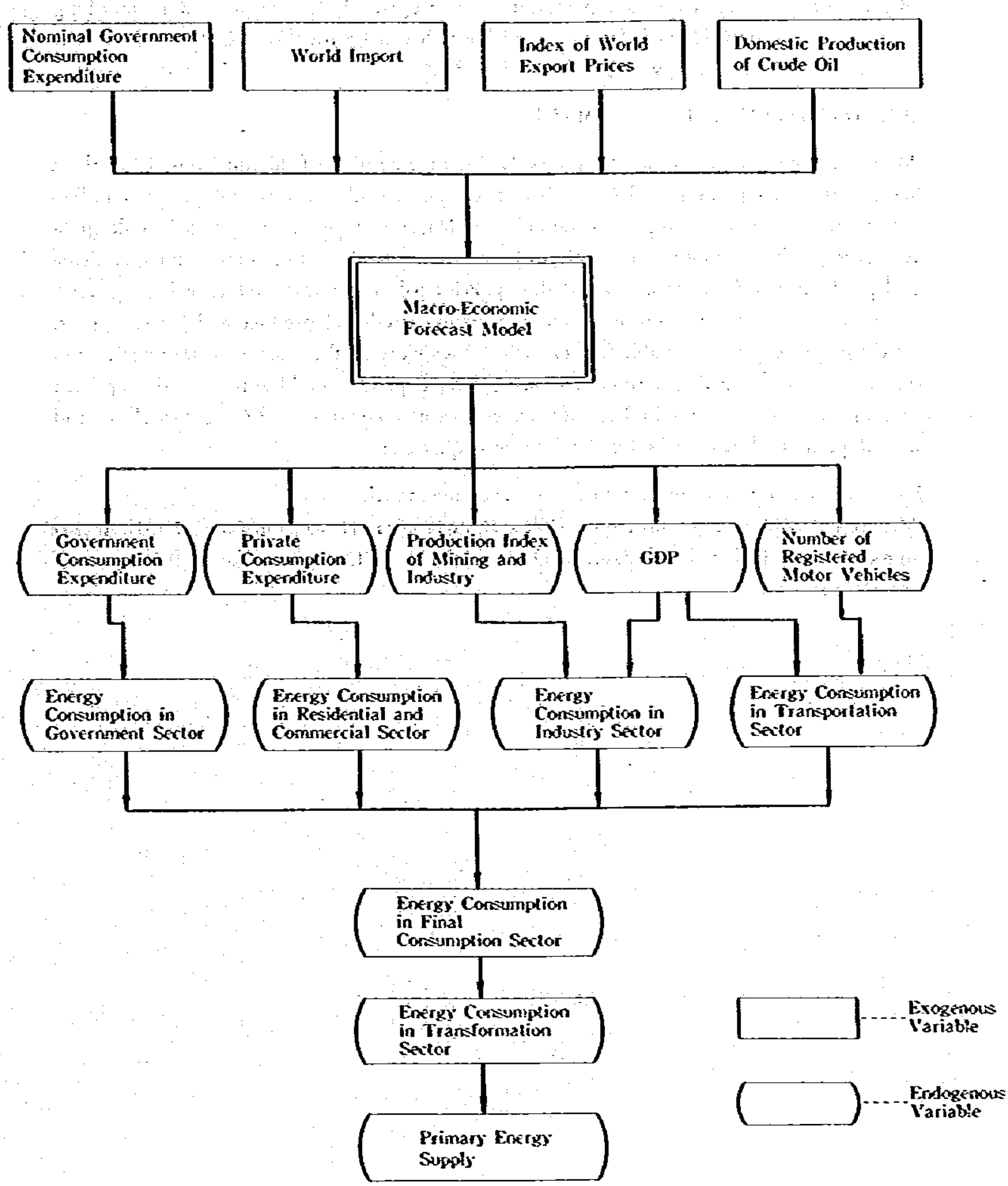
2. Concept of Supply-Demand Forecast Model

As mentioned before, to prepare a medium- and long-term energy supply-demand forecast model of Indonesia, we adopted in our joint work a method used by The Institute of Energy Economics. Concretely speaking, econometric methods were used for macro-economic model and the energy final consumption sector and relative equations in which technical properties among individual energy resources (rate of loss, energy sector own use,etc.) were taken into a consideration were prepared as to the energy transformation sector. Meantime, in respect to the primary energy supply sector, almost all the energy supply sources (hydro generation, crude oil production, etc.) were processed as policy variables (= exogenous variables).

Flow of preparing the model is as follows; based on the macro-economic model, figures of GDP, private consumption expenditure, government consumption expenditure, number of registered motor vehicles, etc. were deduced first. Using the resultant figures as explanatory variables, energy consumption of the final consumption sector (industry, residential and commercial, transportation and government sectors) were obtained and, as the final step, balances were struck in the primary energy supply sector (production, import and export, etc.).

Flow chart shown below is schematization of the aforementioned processes.

Fig. 1　Flow Chart for Outline of Indonesia's Medium- and Long-Term Energy Supply-Demand Forecast



(4)

3. Preparation of Supply-Demand Forecast Model

Based on the concept explained in section 2, we prepared Indonesian's medium- and long-term energy supply-demand forecast model which can be roughly classified into macro-economic model and energy supply-demand model.

3-1. Outline of Macro-Economic Model

Macro-economic model we jointly prepared this time consists of 26 equations. 17 of them are constitutive equations and 9 definitive equations. In other words, endogenous variables are numbered 26 and exogenous variables 6. Major endogenous variables include gross domestic product, private consumption expenditure, government consumption expenditure and production index of mining and industry. Principal exogenous variables includes government consumption expenditure (in current prices), crude oil product and world import. Of them, an exogenous variable (polity variable) which takes the most important position in out model is nominal government consumption expenditure. Meantime, ordinary least squares were used as a method to estimate constitutive equation and Gauss-Seidel method was adopted as a method to solve simultaneous equations.

Flow chart shown in Fig. 2 indicates the outline of the model.
Meantime, symbol, name, unit and source of each variable are listed up in Tables 1 and 2 Arabic numerals "73" included in variable marks (ex. CG73&, CPI73&) stand for the 1973 price or the 1973 standard.

Fig. 2 Flow Chart for Outline of Indonesia's Macro-Economic Model

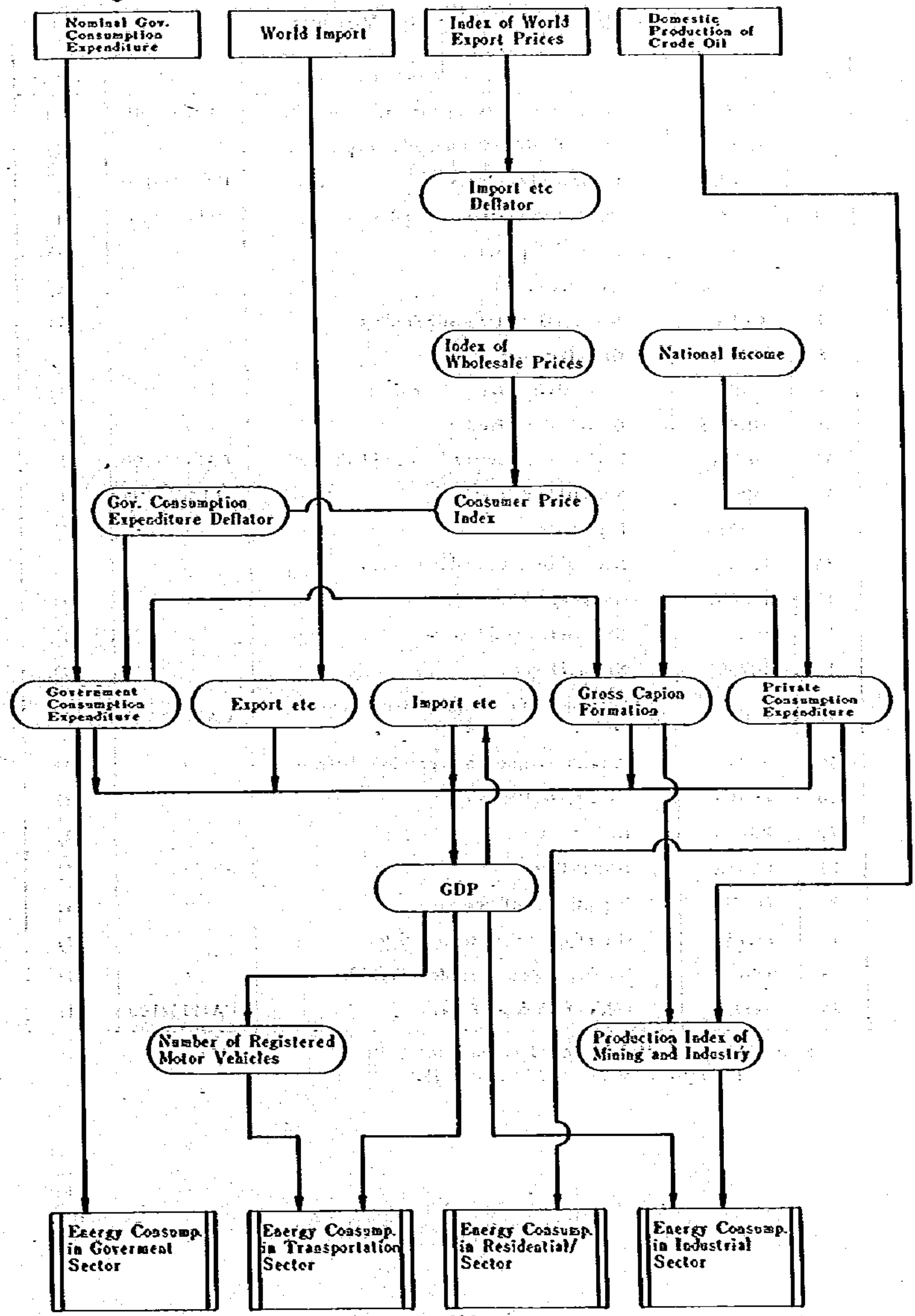


Table 1 List of Endogenous Variables

No.	Symbol	Name of Variables	Unit	Source
1	CG73&	Government Consumption Expenditure	1 billion RP	1)
2	CP&	Nominal Private Consumption Expenditure	"	1)
3	CPI73&	Consumer Price Index	CA1973=100	2)
4	CP73&	Private Consumption Expenditure	1 billion RP	1)
5	EXP&	Nominal Export, etc.	"	1)
6	EXP73&	Export, etc.	"	1)
7	GDP&	Nominal Gross Domestic Product	"	1)
8	GDP73&	Gross Domestic Product	"	1)
9	GNP&	Nominal Gross National Product	"	1)
10	GNP73&	Gross National Product	"	1)
11	IIP73&	Production Index of Mining and Industry	CA1973=100	1)
12	IMP&	Nominal Import, etc.	1 billion RP	1)
13	IMP73&	Import, etc.	"	1)
14	ITP&	Nominal Gross Capital Formation	"	1)
15	ITP73&	Gross Capital Formation	"	1)
16	NI&	Nominal National Income	"	1)
17	NI73&	National Income	"	1)
18	PCG&	Government Consumption Expenditure Deflator	CA1973=100	1)
19	PCP&	Private Consumption Expenditure Deflator	"	1)
20	PEXP&	Export, etc. Deflator	"	1)
21	PGDP&	GDP Deflator	"	1)
22	PGNP&	GNP Deflator	"	1)
23	PIMP&	Import, etc. Deflator	"	1)
24	PITP&	Gross Capital Formation Deflator	"	1)
25	TR&	Number of Registered Motor Vehicles	"	1)
26	WPI73&	Index of Wholesale Prices	CA1973=100	1)

Source: 1) Data offered from Indonesian counterparts
2) *International Financial Statistics*, IMF.

Table 2 List of Exogenous Variables

No.	Symbol	Name of Variables	Unit	Source
1	CG&	Nominal Government Consumption Expenditure	1 billion RP	1)
2	PAGRGPE73&	Agricultural Export Deflator	CA1973=100	1)
3	PCROIL&	Crude Oil Export Prices	Dollar/Barrel	1)
4	PETROP&	Crude Oil Product	1000 Barrel	1)
5	PWE75&	Index of World Export Prices	CA1975=100	2)
6	WIM75&	World Import	1 billion RP	2)

Source: 1) Data offered from Indonesian counterparts
2) *International Financial Statistics*, IMF.

Listed below are individual equations. Abbreviations stand for as follows; R*R – decision coefficient, ADJ (R*R) – decision coefficient with free factors adjusted, D.W. – Durbine Watson ratio, S – standard error. Figures shown in parentheses under coefficients, which represent explanatory variables, of individual equations are t value. Descriptions, such as INDONESIA01, which follow numeral number of equations represent names of the equations. OLS is to indicate that constitutive equations were estimated using ordinary last squares.

```
( 1)INDONESIA01      (OLS  , FA,  71 TO  78)
EXP73&=-507.3603+2.199797 *WIM75&:
       (-2.201) ( 8.14)

        R*R= 0.9169(ADJ[R*R]= 0.9031)
        D.W.=*2.70
        S= 83.574

( 2)INDONESIA02      (OLS  , FA,  71 TO  78)
PIMP&=+20.53160+1.295865*PWE75&:
       ( 2.315) ( 13.2)

        R*R= 0.9671(ADJ[R R]= 0.9616)
        D.W.= 1.79
        S= 7.0491

( 3)INDONESIA03      (OLS  , FA,  72 TO  78)
NI73&=+735.2395+0.8035411*GDP73&(-1):
       (2.549) ( 20.1)

        R*R= 0.9878(ADJ[R*R]= 0.9854)
        D.W.= 1.59
        S= 110.83

( 4)INDONESIA04      (OLS  , FA,  71 TO  78)
WPI73&=-1.196510+0.5507690*PIMP&+0.007089847*NI&;
       (-0.069) ( 2.42)       ( 4.91)
```

(8)

R*R= 0.9911(ADJ[R*R]= 0.9875)
D.W.= 2.03
S= 6.6569

(5)INDONESIA05 (OLS , FA, 71 TO 78)

CPI73&=+3.251428+0.008842711*NI&+0.4516194*PIMP&;
(0.242) (7.91) (2.56)

R*R= 0.9956(ADJ[R*R]= 0.9938)
D.W.= 2.01
S= 5.1596

(6)INDONESIA06 (OLS , FA, 71 TO 78)

PCP&=+20.15272+0.007234234*NI&+0.3515267*PIMP&;
(3.647) (15.7) (4.84)

R*R= 0.9988(ADJ[R*R]= 0.9984)
D.W.= 2.92
S= 2.1220

(7)INDONESIA07 (OLS , FA, 71 TO 78)

PCG&=+7.905765+0.8627982*CPI73&;
(2.252) (40.4)
R*R= 0.9963(ADJ[R*R]= 0.9957)
D.W.= 1.31
S= 3.7249

(8)INDONESIA08 (OLS , FA, 71 TO 78)

PITP&=-8.353526+0.8061570*PIMP&+0.003714760*NI&;
(-0.394) (2.89) (2.10)

R*R= 0.9810(ADJ[R*R]= 0.9735)
D.W.= 2.16
S= 8.1383

(9)INDONESIA09 (OLS , FA, 71 TO 78)
PEXP&=-9.513239+12.87555*PCROIL&+0.6462070*PAGRGPE73&;
(-1.544) (15.8) (7.17)

R*R= 0.9979(ADJ[R*R]= 0.9971)
D.W.= 2.05
S= 4.8026

(10)INDONESIA11 (OLS , FA, 72 TO 78)

NI&=-17028.45+0.2561937*NI&(-1)+3.601317*GDP73&(-1);
(-3.514) (1.16) (3.82)

R*R= 0.9959(ADJ[R*R]= 0.9939)
D.W.= 2.85
S= 416.40

(11)INDONESIA12 (OLS , FA, 72 TO 78)

CP73&=+42.05767+0.4626462*NI73&+0.4925135*CP73&(-1);
(0.078) (1.40) (1.45)

R*R= 0.9815(ADJ[R*R]= 0.9723)
D.W.= 1.79
S= 144.78

(12)INDONESIA13 CG73&=CG&/(POG&/100.0);

```
( 13)INDONESIA14     (OLS   , FA,   71 TO   78)
ITP73&=-910.6464+0.3542265*CP73&+0.6651544*CG73&;
      (-5.534) ( 4.69)          ( 1.82)
    R*R= 0.9887(ADJ(R*R)= 0.9842)
    D.W.= 1.75
    S= 60.868

( 14)INDONESIA15     (OLS   , FA,   71 TO   78)
IMP73&=-1738.216+0.4530140*GDP73&;
      (-6.532) ( 12.8)
    R*R= 0.9649(ADJ(R*R)= 0.9590)
    D.W.= 1.95
    S= 122.53

( 15)INDONESIA16     GDP73&=CP73&+CG73&+ITP73&+EXP73&-IMP73&;
( 16)INDONESIA17     CP&=CP73&+(PCP&/100.0);
( 17)INDONESIA18     ITP&=ITP73&*(PITP&/100.0);
( 18)INDONESIA19     EXP&=EXP73&*(PEXP&/100.0);
( 19)INDONESIA20     IMP&=IMP73&*(PIMP&/100.0);
( 20)INDONESIA21     GDP&=CP&+CG&+ITP&+EXP&-IMP&;
( 21)INDONESIA22     (OLS   , FA,   71 TO   78)
IIP73&=+0.5574405+0.04102759*ITP73&+0.0001029514*PETROP&;
      ( 0.305)  ( 26.9)             (13.6)
    R*R= 0.9995(ADJ(R*R)= 0.9993)
    D.W.= 2.31
    S= 0.74353

( 22)INDONESIA23     PGDP&=100.0*GDP&/GDP73&;
( 23)INDONESIA24     (OLS   , FA,   71 TO   78)
GNP73&=+429.7205+0.9003087*GDP73&;
      ( 5.006) ( 79.1)
    R*R= 0.9990(ADJ(R*R)= 0.9988)
    D.W.= 1.16
    S= 39.532

( 24)INDONESIA25     (OLS   , FA,   71 TO   78)
GNP&=+15.06406+0.9616927*GDP&;
    ( 0.226) ( 192)
    R*R= 0.9998(ADJ(R*R)= 0.9998)
    D.W.= 1.90
    S= 87.402

( 25)INDONESIA26     PGNP&=100.0*GNP&/GNP73&;
( 26)INDO000         (OLS   , FA,   72 TO   78)
TR&=-728586.4+149.6385*GDP73&+0.9180960*TR&(-1);
    (-1.885) ( 1.83)          ( 5.77)
    R*R= 0.9975(ADJ(R*R)= 0.9963)
    D.W.= 3.00
    S= 43061
```

3-2. Outline of Energy Supply-Demand Model

Newly aggregating data presented in Indonesia's energy balance table which was prepared by the softwear team, we prepared a "concise energy balance table of Indonesia" consisting of 25 energy resources and 18 energy supply and consumption sectors, which is presented below.

Table 3 Configuration of Columns of Concise Energy Balance Table

Column	Energy Resources
C01	Solid Fuels
C02	Crude
C03	Petroleum Products Total
C04	Gasoline
C05	Jet Fuel
C06	Kerosene
C07	Diesel Oil
C07A	Automotive Diesel Oil
C07B	Industrial Diesel Oil
C08	Heavy Fuel Oil
C09	Naphthas + NGL (Condensed Natural Gas)
C10	Other Petroleum Products
C10A	LPG
C10B	Others
C11	Gas
C11A	Natural Gas
C11B	LNG
C11C	Town Gas
C11D	Others
C12	Nuclear Power
C13	Hydro & Geothermal
C14	Electricity
C15	Commercial Energy Total
C16	Non-Commercial Energy
C17	Total (C15 + C16)

Table 4 Configuration of Rows of Concise Energy Balance Table

Row	Energy Supply & Consumption Sectors
R01	Domestic Production
R02	Import
R03	Export
R04	Bunker
R05	Stock Change
R06	Total Primary Energy Supply
R07	Electric Generation
R08	Town Gas Producers
R09A	Refineries
R09B	NGL Plant
R10A	Energy Sector Own Use
R10B	Loss etc.
R11	Total Final Consumption
R12	Industry Sector
R13	Transportation Sector
R14	Residential & Commercial Sector
R15	Government Sector
R16	Non-Energy Consumption

Secondly, processing the data shown in the concise energy balance table with the methods mentioned in this paper so far, we prepared an energy supply-demand model. Constitutive equations of the model are numbered 11 and definitive equations 163. In other words, there are 162 endogenous variables and 115 exogenous variables. The number of constitutive equations resulted in limited due to sharp fluctuations in individual variables which made it difficult to obtain significant estimated equations as many as planned. On the other hand, numbers of definitive equations and exogenous variables increased.

Major endogenous variables include energy consumption by type of energy source in industry, transportation, residential and commercial, and government sectors. Principal exogenous variables include primary energy supply such as production, import and export by type of energy resource and yield of individual petroleum products.

Flow chart shown below indicates the outline of the model.

Fig. 3 Flow Chart of Solid Fuels Part

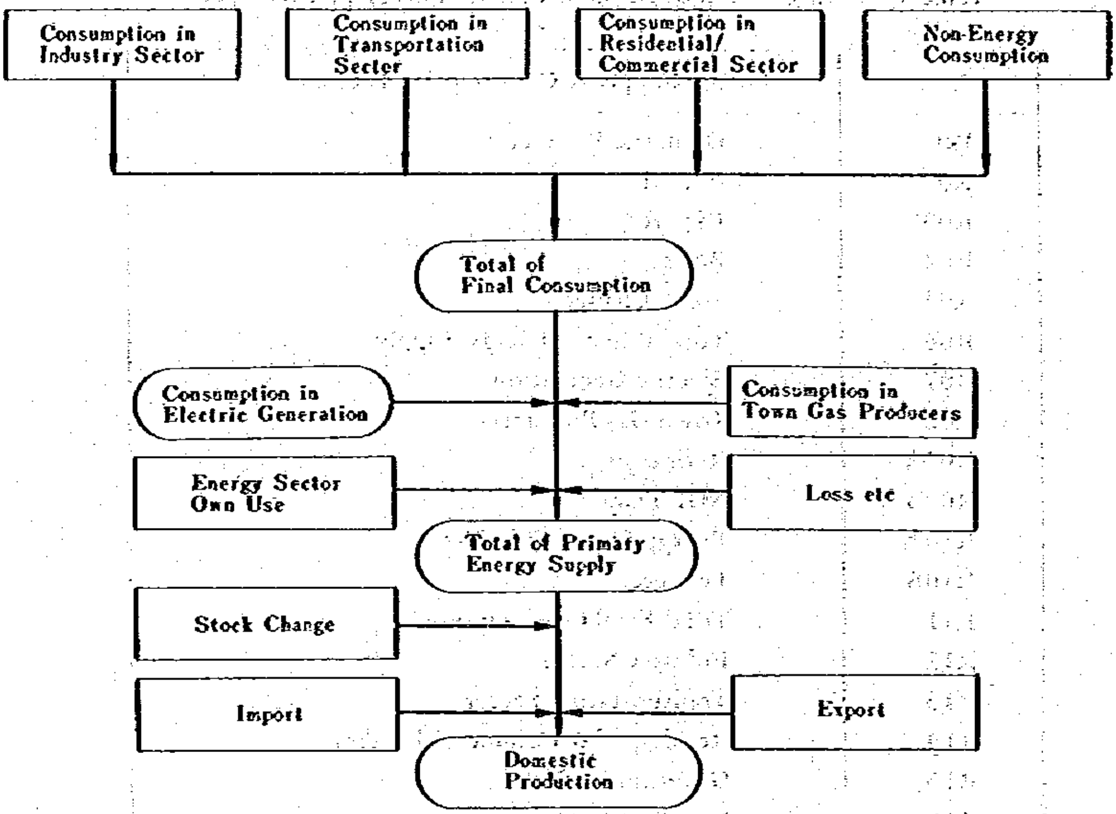


Fig. 4 Flow Chart of Crude Oil Part

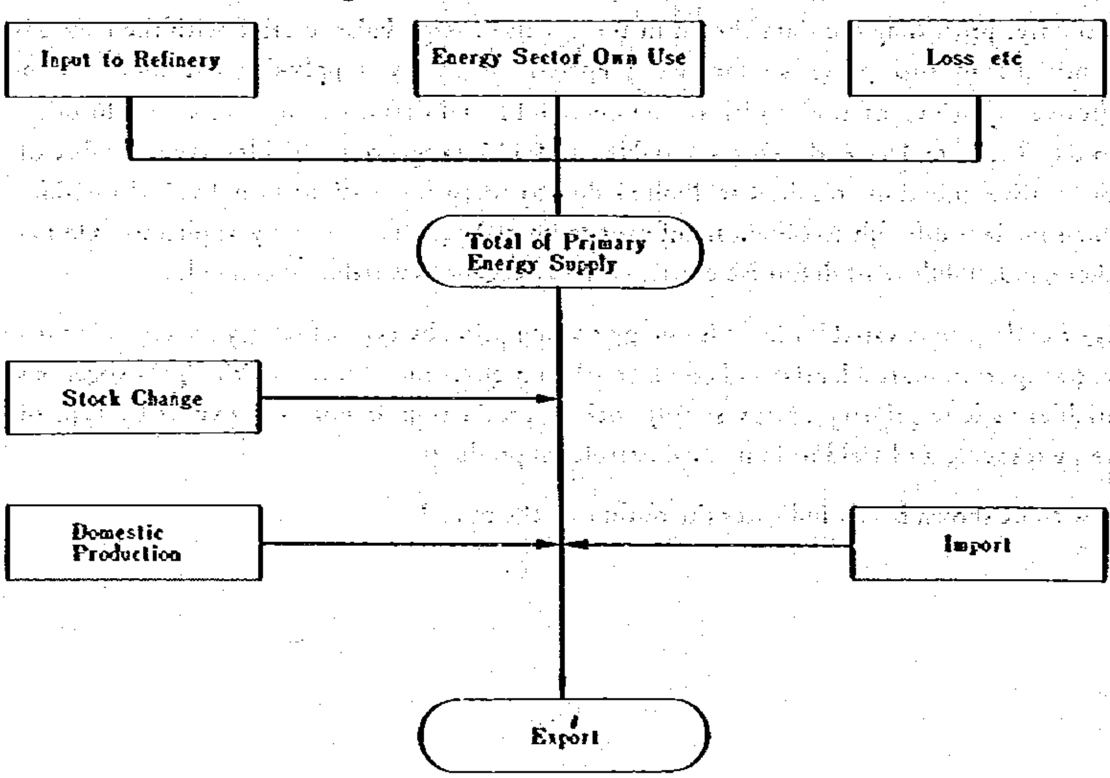


Fig. 5 Flow Chart of Gasoline Part

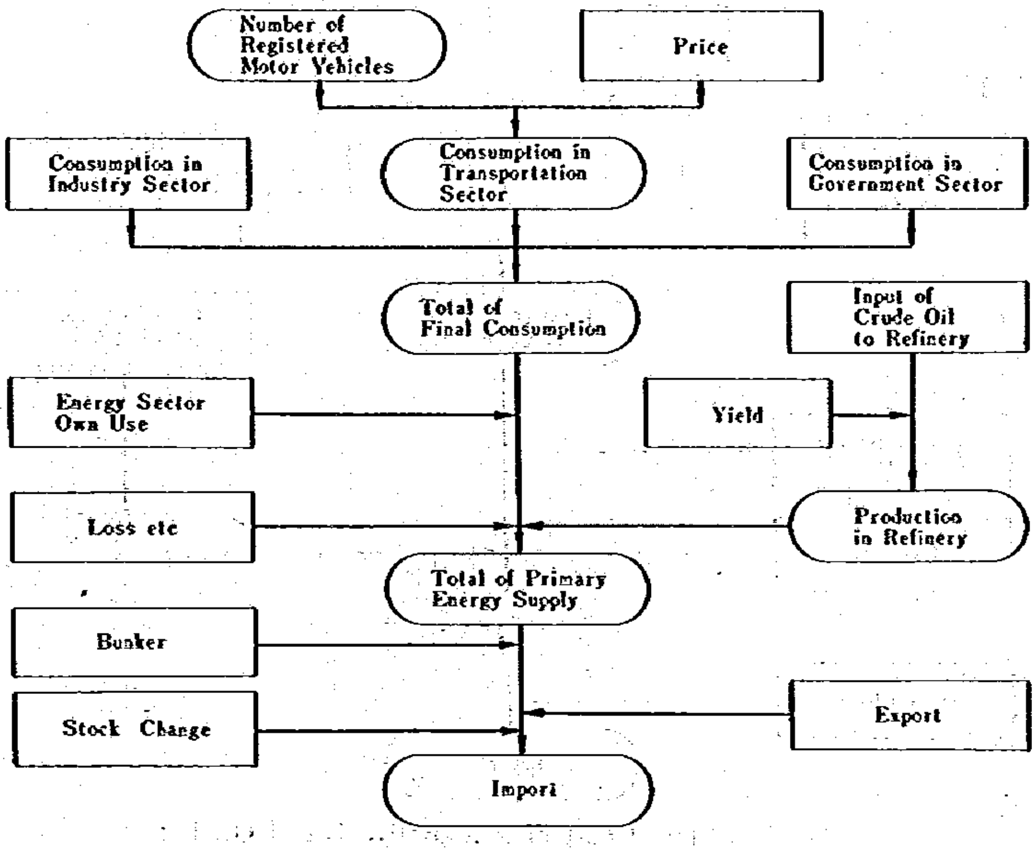


Fig. 6 Flow Chart of Jet Fuel Part

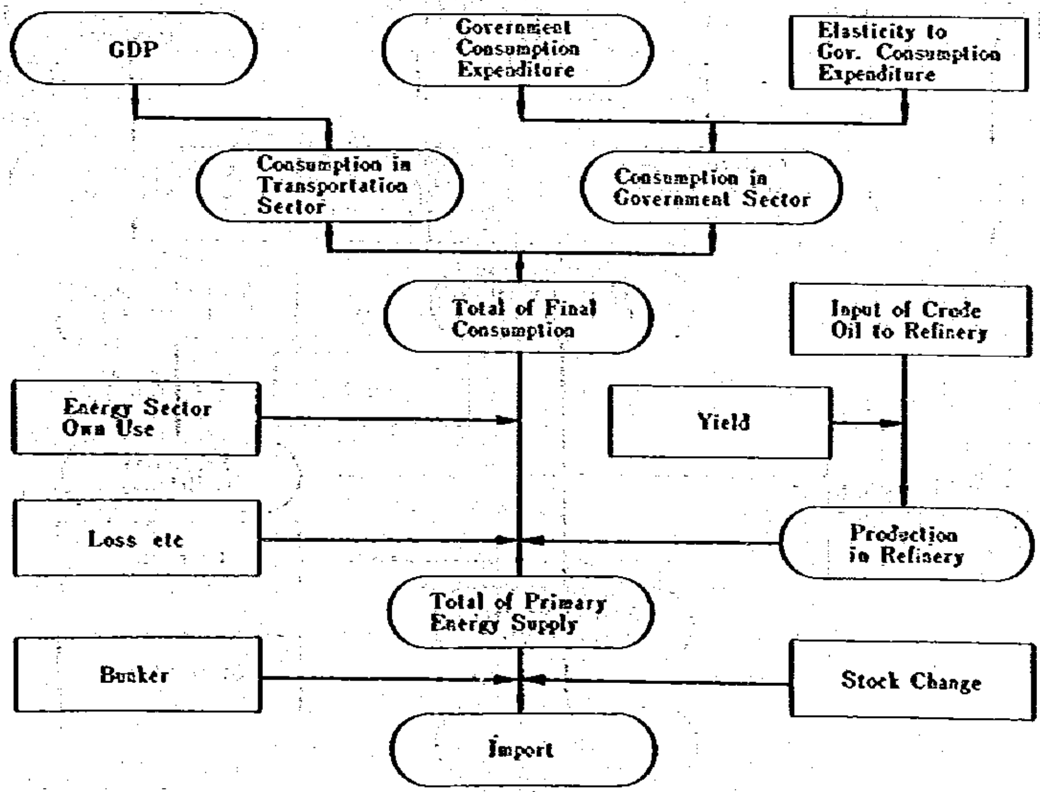


Fig. 7 Flow Chart of Kerosene Part

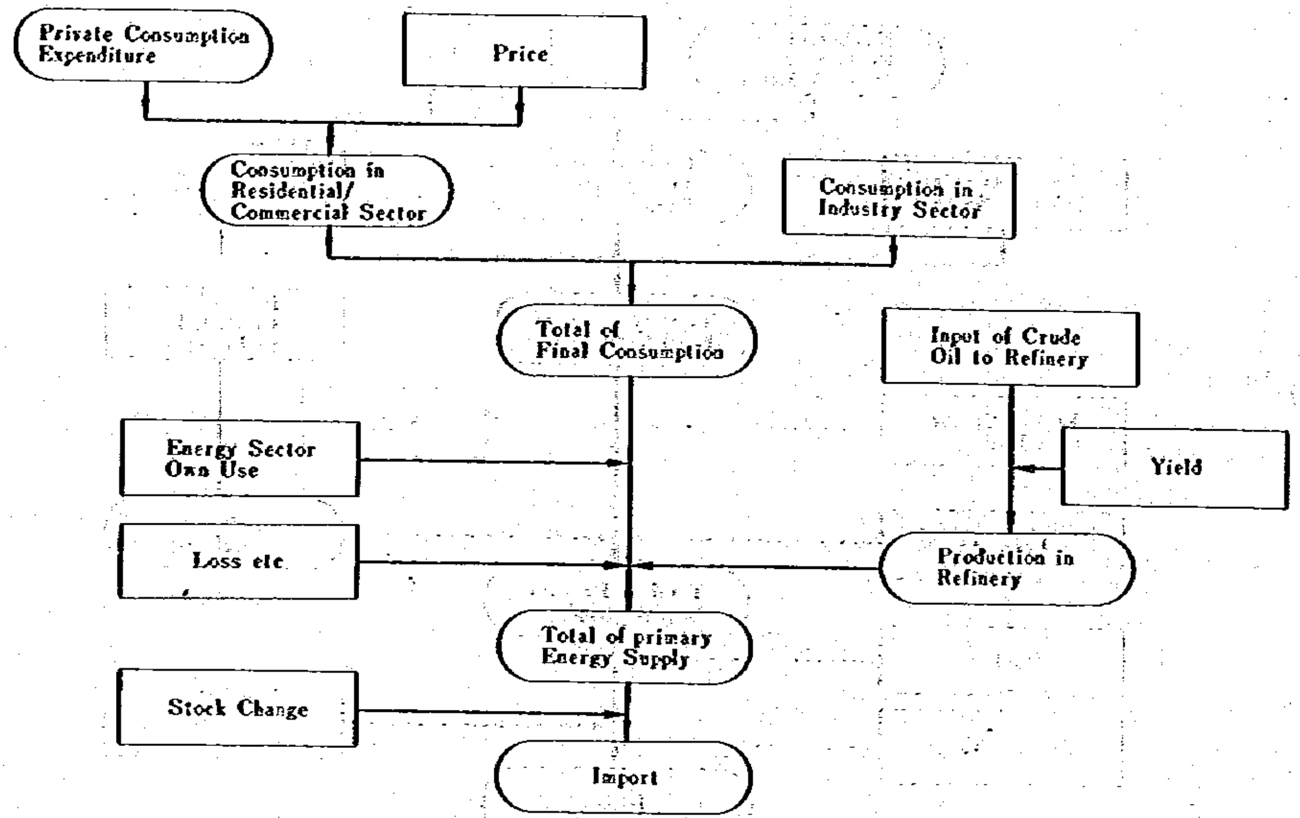


Fig. 8 Flow Chart of Automotive Diesel Oil Part

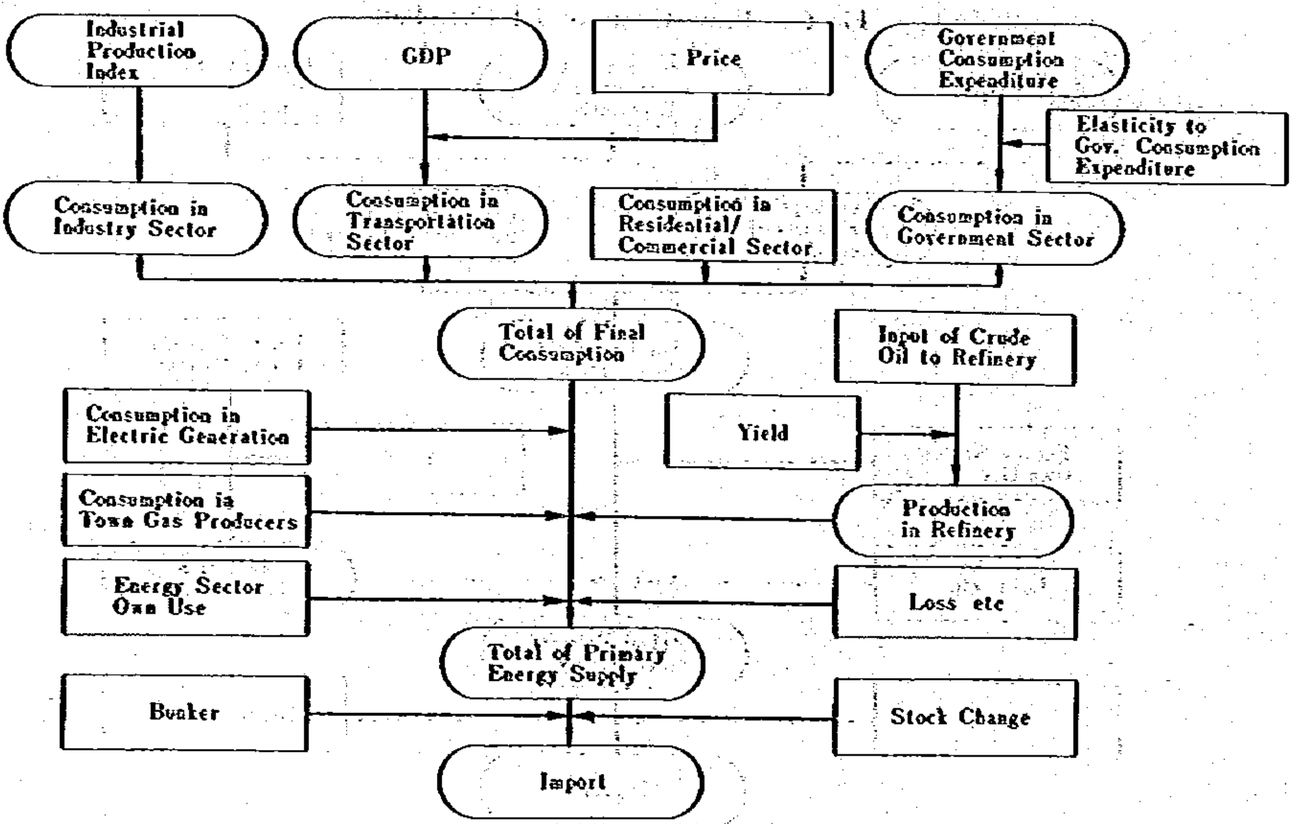


Fig. 9 Flow Chart of Industrial Diesel Oil Part

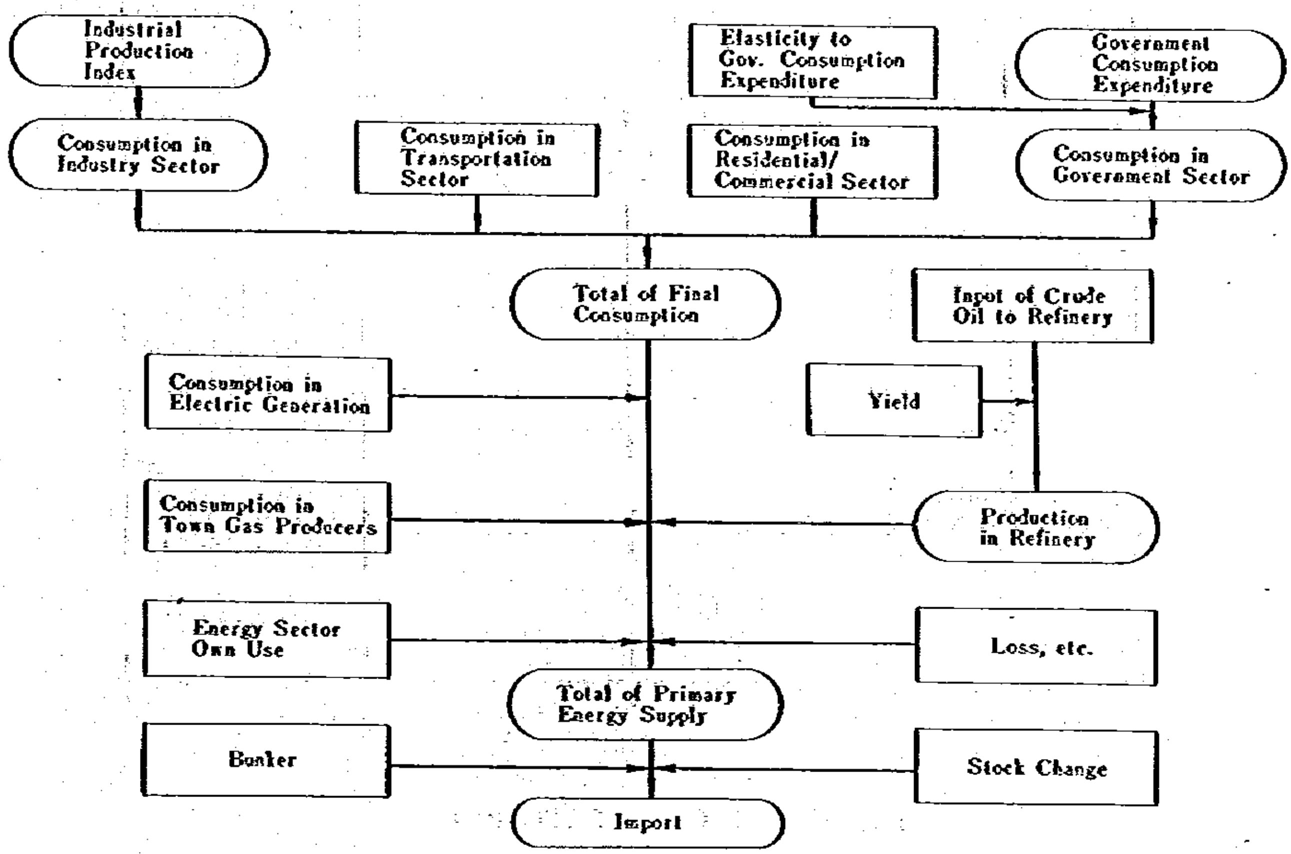


Fig. 10 Flow Chart of Heavy Fuel Oil Part

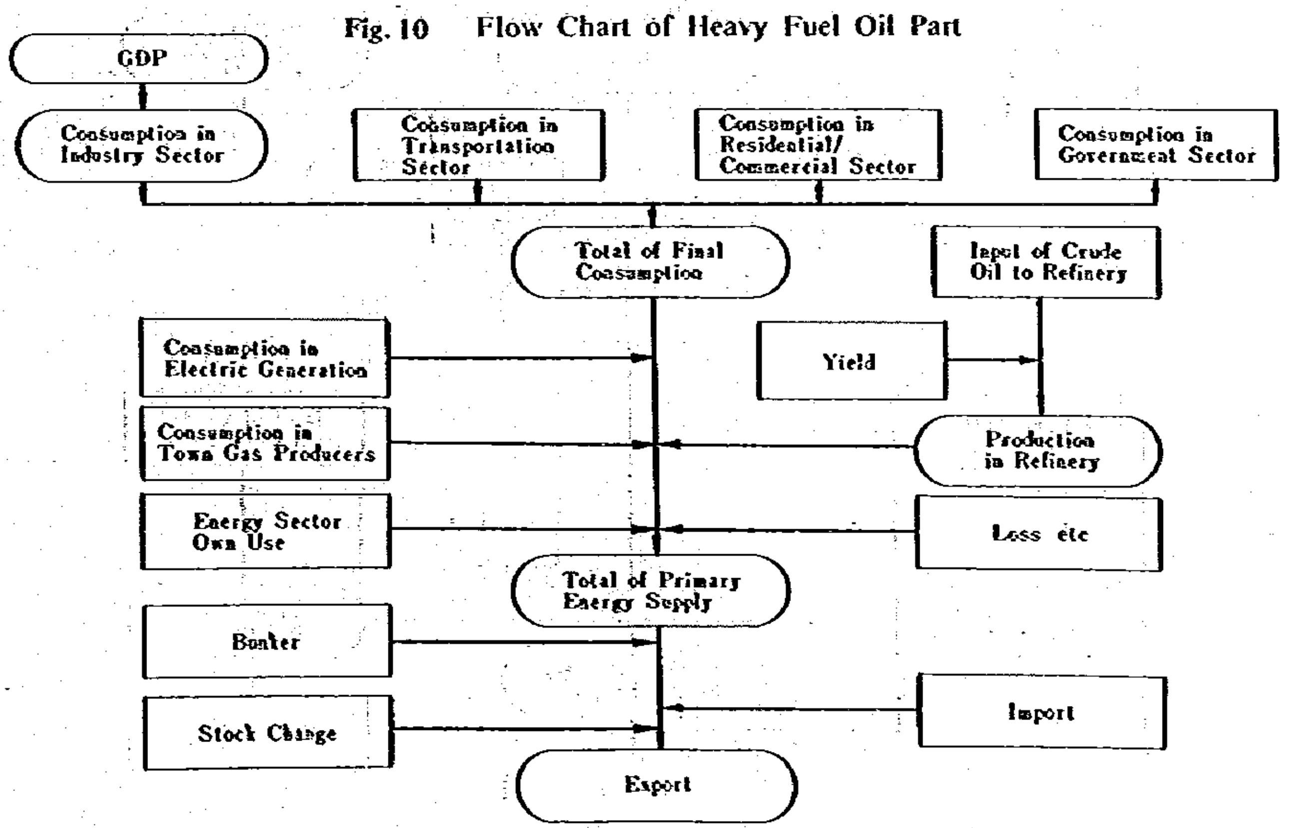


Fig. 11 Flow Chart of Naptha & NGL Part

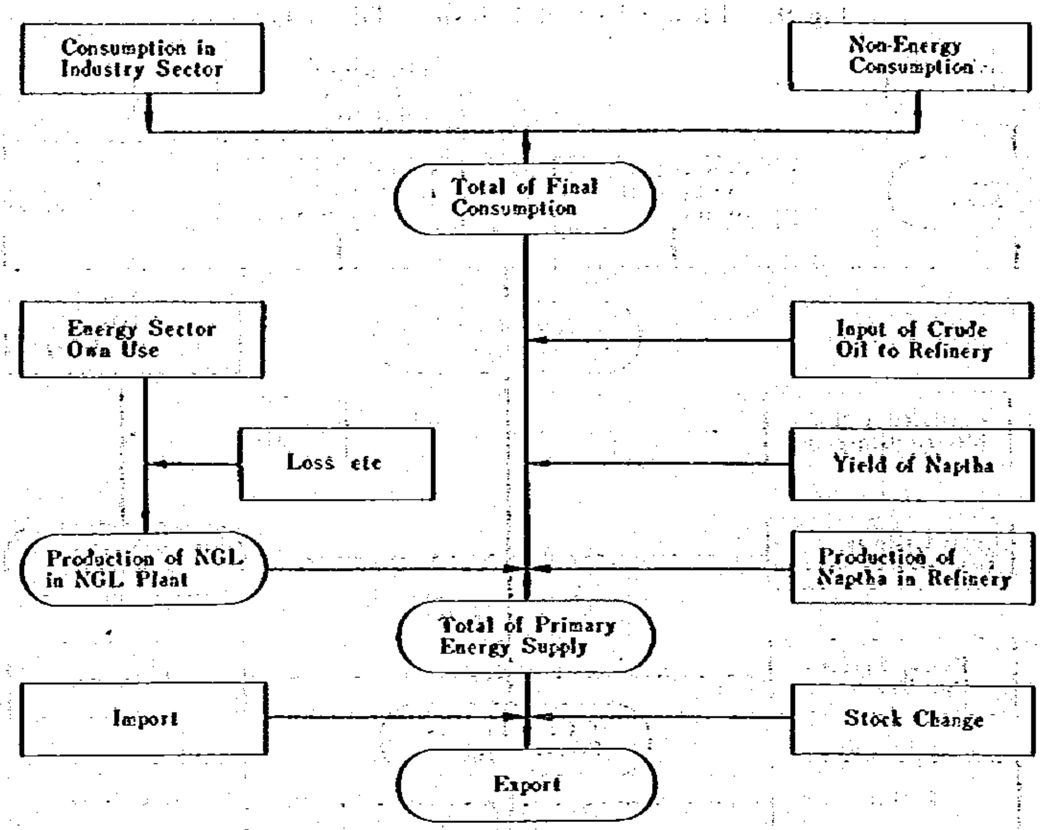


Fig. 12 Flow Chart of LPG Part

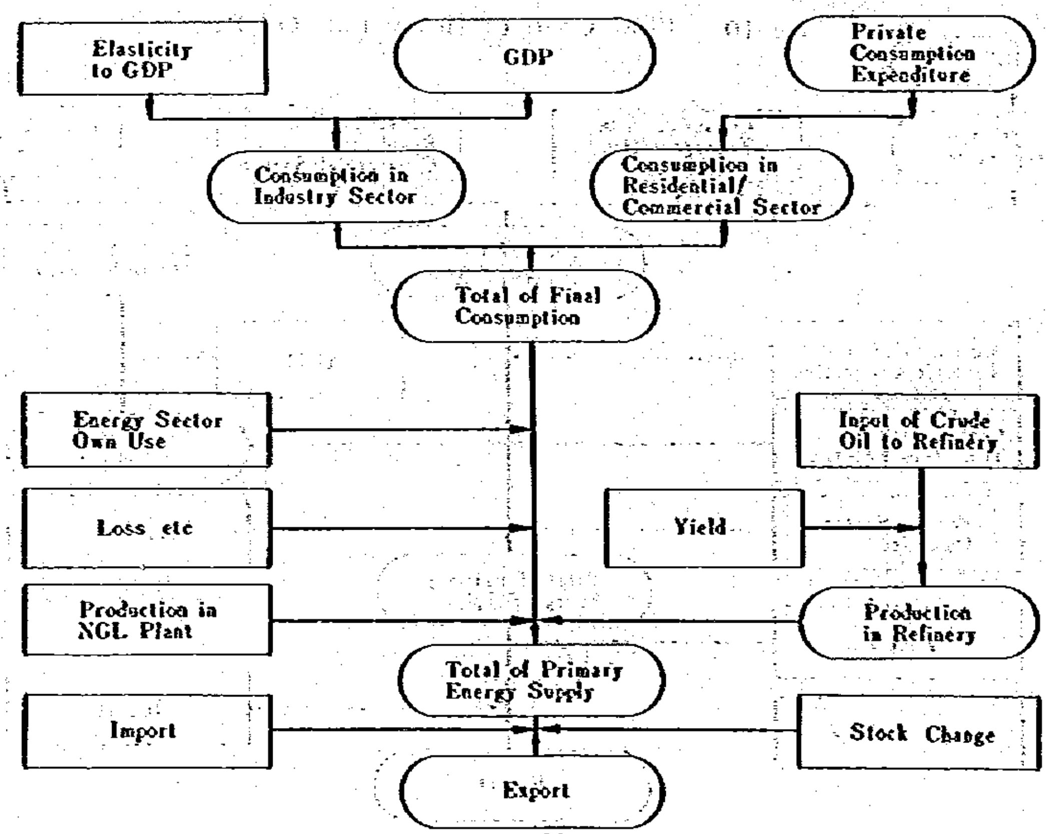


Fig. 13 Flow Chart of Other Petroleum Products Part

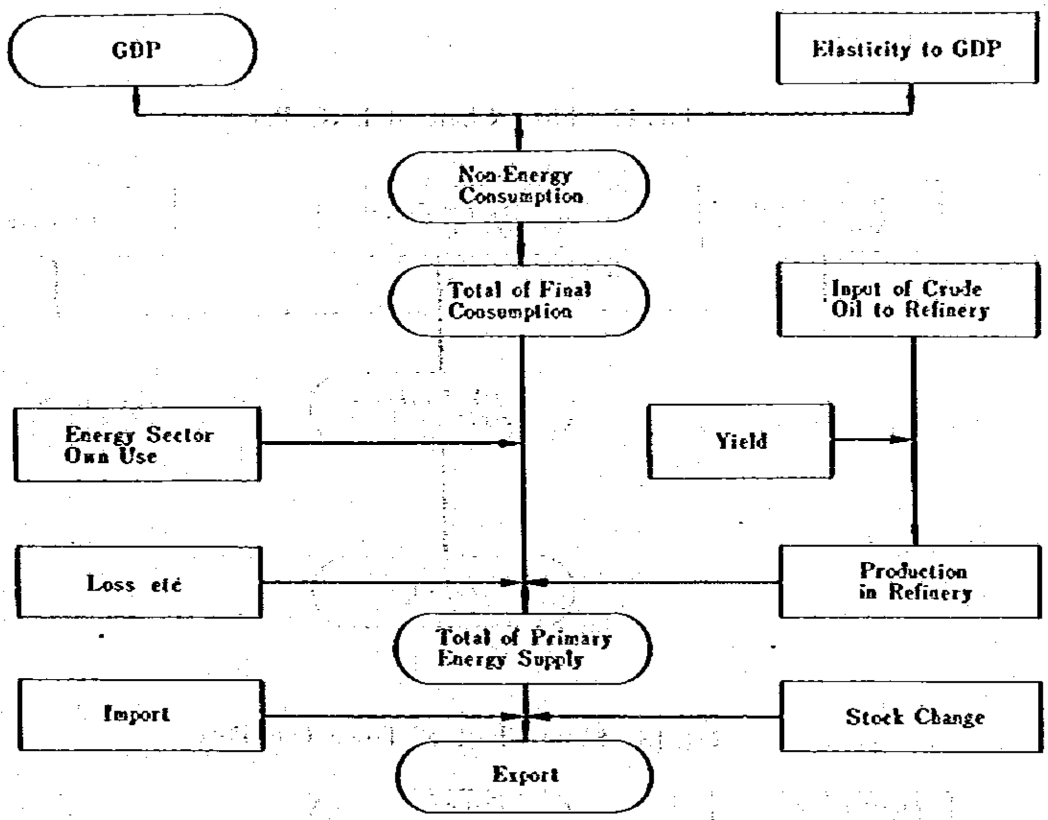


Fig. 14 Flow Chart of Natural Gas Part

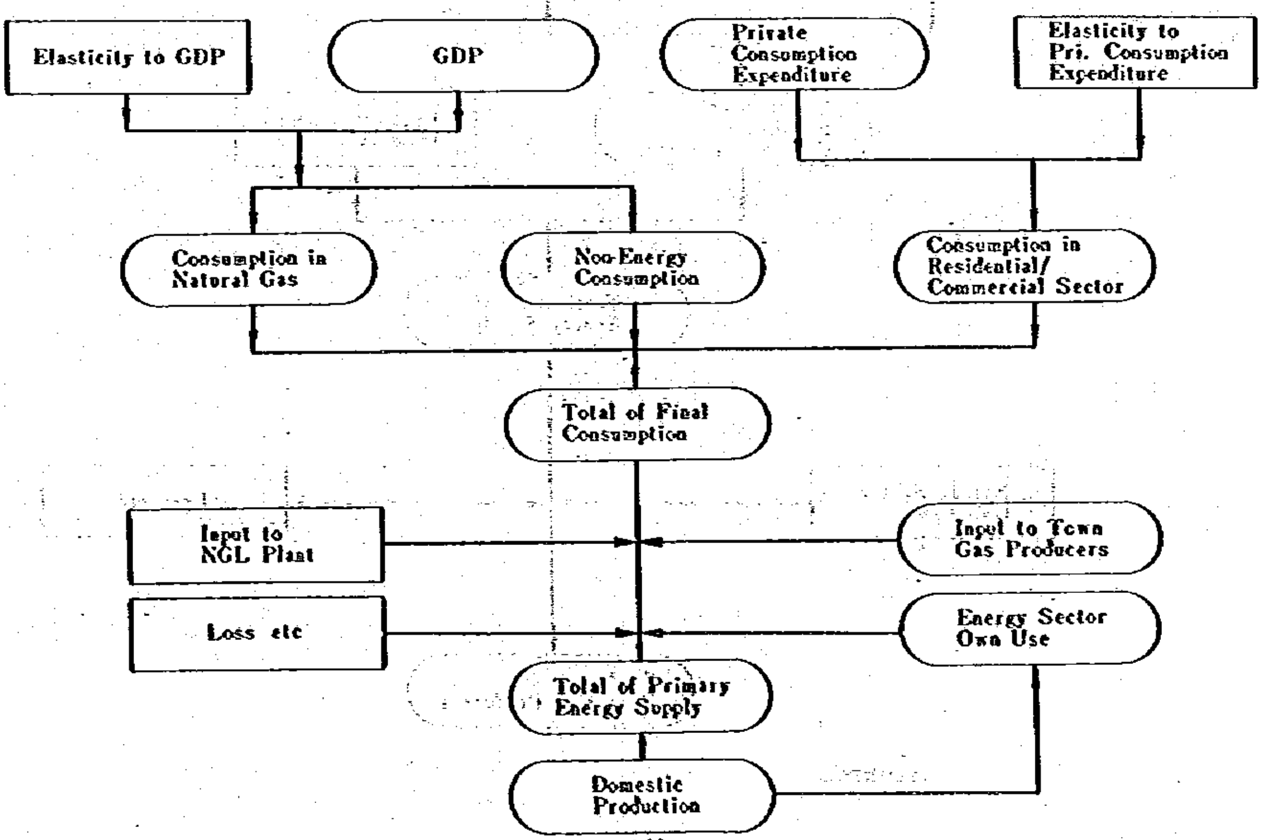


Fig. 15 Flow Chart of LNG Part

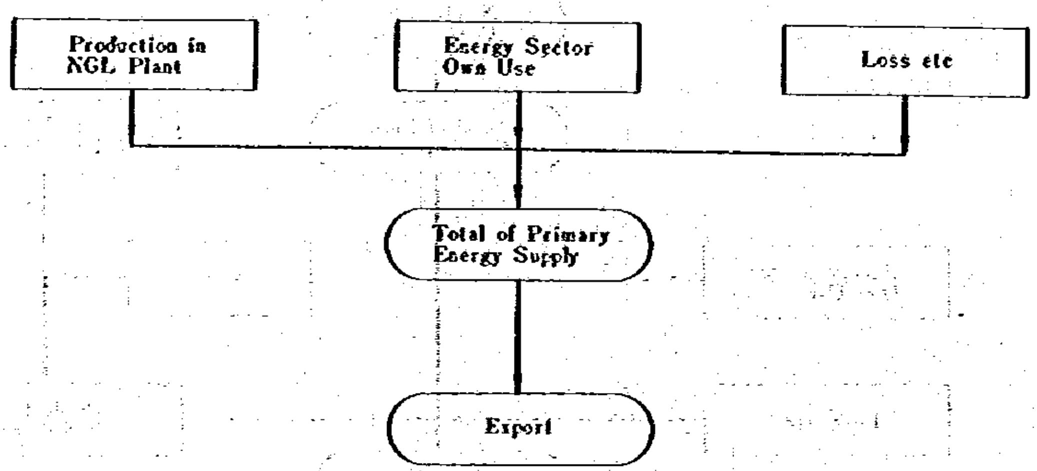


Fig. 16 Flow Chart of Town Gas Part

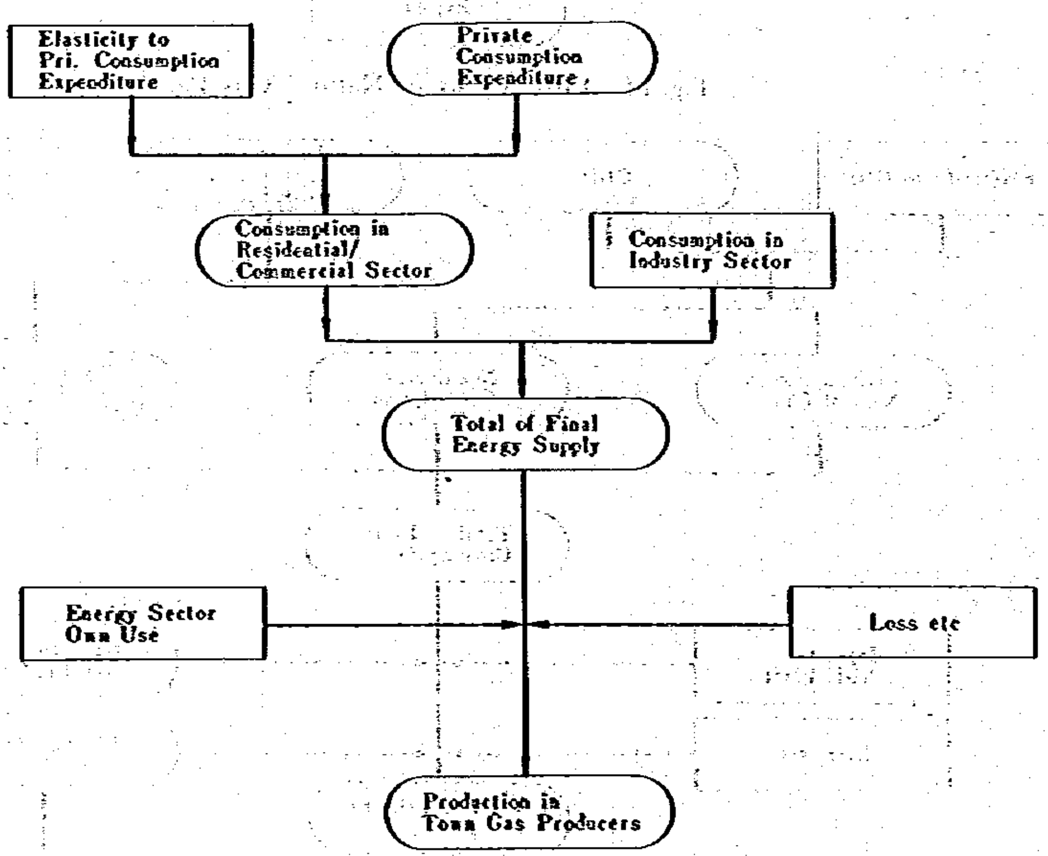


Fig. 17 Flow Chart of Electricity Part

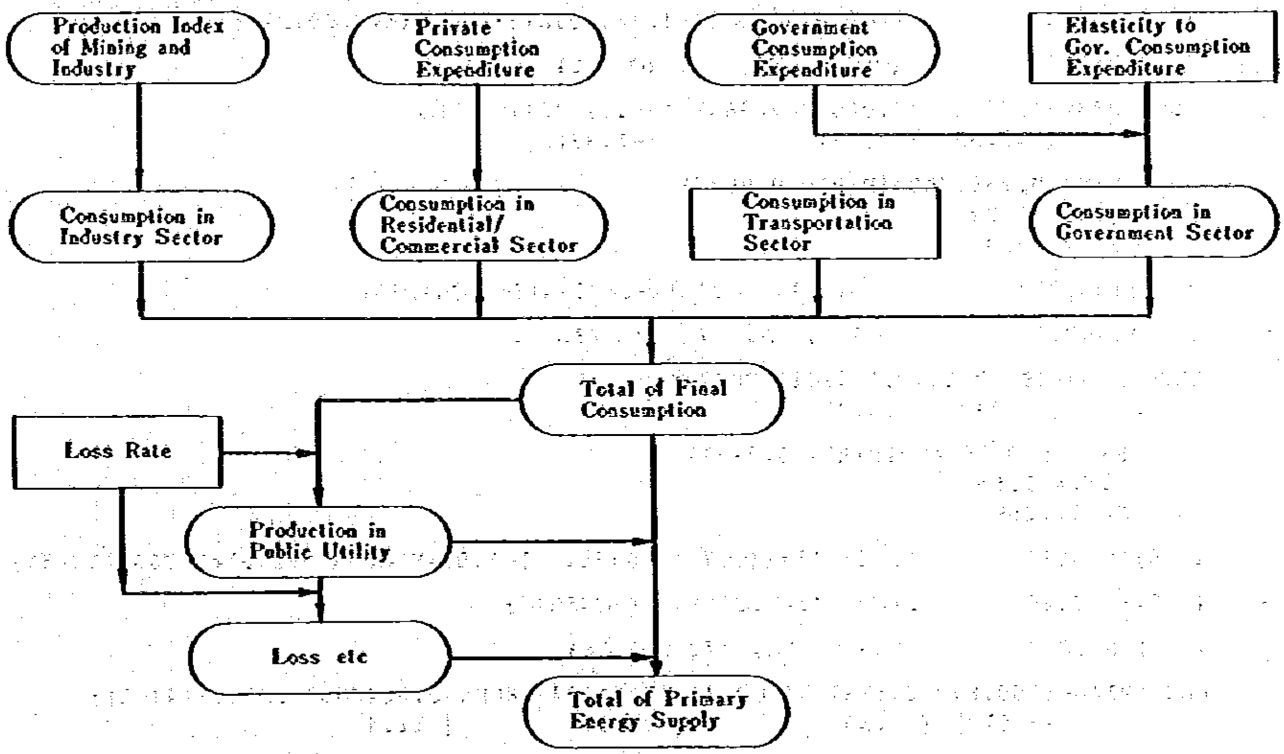
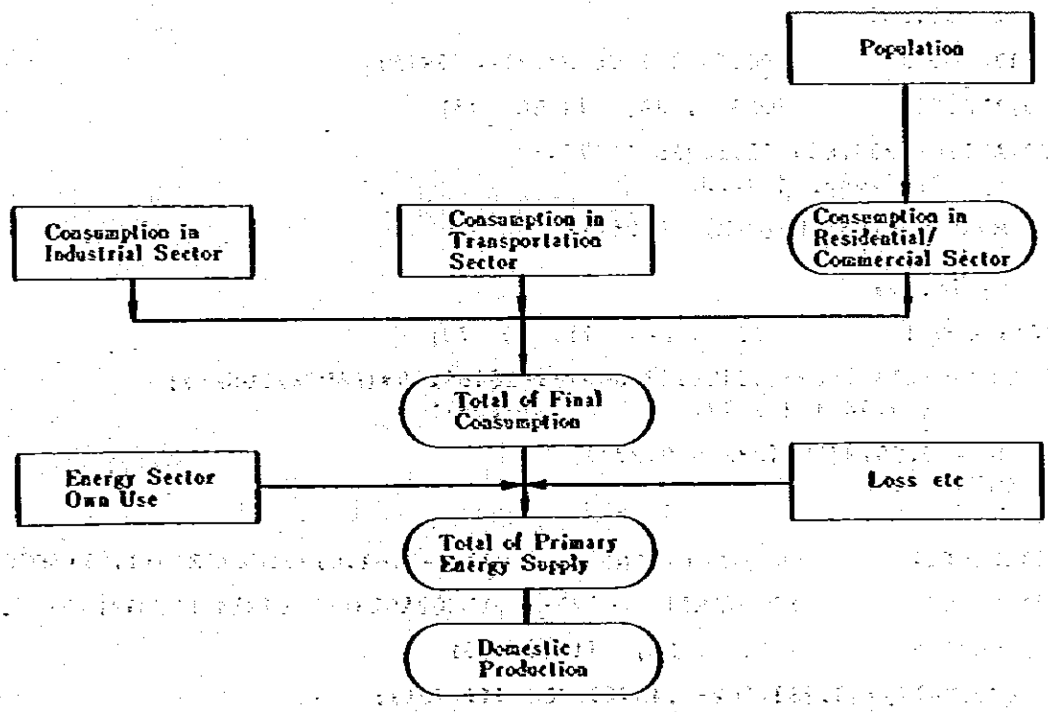


Fig. 18 Flow Chart of Non-Commercial Energy Part



Listed below are individual equations. In the list, the model is divided into four blocks; (A) final energy consumption sector, (B) energy sector own use and loss, etc., (C) energy transformation sector and (D) primary energy supply sector.

(20)

(A) Final Energy Consumption Sector (67 equations)

```
(  1)IND0017        EBC01R11=EBC01R12+EBC01R13+EBC1R14+EBC01R16;
(  2)IND0001        (OLS  , FA,  71 TO  78)
EBC04R13=+1330.600+0.0009267636*TR&-6.227924*PPETR&;
         ( 13.35)  ( 8.16)           (-1.37)
    R*R= 0.9382(ADJ[R*R]= 0.9834)
    D.W.= 1.72
    S= 74.933
(  3)IND0018        EBC04R11=EBC04R12+EBC04R13+EBC04R15;
(  4)IND0002        (OLS  , FA,  71 TO  78)
EBC05R13=-493.7739+0.1252411*GDP73&;
         (-8.342)  ( 15.9)
    R*R= 0.9770(ADJ[R*R]= 0.9731)
    D.W.= 1.66
    S= 27.259
(  5)IND0019        EBC05R15=((CG73&/CG73&(-1)-1.0)*ELC05R15+1.0)*EBC05R15(-1);
(  6)IND0020        EBC05R11=EBC05R13+EBC05R15;
(  7)IND0003        (OLS  , FA,  72 TO  78)
EBC06R14=-1100.879+0.5737276*CP73&-47.91174*PKER&+0.8642881*EBC06R14(-1);
         (-3.879)  ( 4.36)          (-2.10)          ( 11.4)
    R*R= 0.9993(ADJ[R*R]= 0.9986)
    D.W.= 2.95
    S= 56.191
(  8)IND0021        EBC06R11=EBC06R12+EBC06R14;
(  9)IND0013        (OLS  , FA,  74 TO  78)
EBC07AR12=-1984.629+21.16815*IIP73&;
          (-7.049)  ( 9.99)
    R*R= 0.9706(ADJ[R*R]= 0.9611)
    D.W.= 3.25
    S= 78.179
( 10)IND0014        (OLS  , FA,  71, TO  78)
EBC07AR13=+2130.809+0.2488148*GDP73&-16468.09*(PAD0&/PGNP&);
          ( 0.760)  ( 1.17)          (-1.87)
    R*R= 0.9529(ADJ[R*R]= 0.9341)
    D.W.= 2.38
    S= 220.57
( 11)IND0022        EBC07AR15=((CG73&/CG73&(-1)-1.0)*ELC07AR15+1.0)*EBC07AR15(-1);
( 12)IND0023        EBC07AR11=EBC07AR12+EBC07AR13+EBC07R14+EBC07AR15;
( 13)IND0015        (OLS  , FA,  71 TO  78)
LOG(EBC07BR12)=-0.2831102+1.437212*LOG(IIP73&);
               (-0.350)   ( 8.38)
    R*R= 0.9213(ADJ[R*R]= 0.9082)
    D.W.= 0.993
    S= 0.12412
```

```
( 14)INDO024        EBC07BR15=((CG73&/CG73&(-1)-1.0)*ELC07BR15+1.0)*EBC07BR15(-1);
( 15)INDO025        EBC07BR11=EBC07BR12+EBC07BR13+EBC07BR14+EBC07BR15;
( 16)INDO026        EBC07R12=EBC07AR12+EBC07BR12;
( 17)INDO027        EBC07R13=EBC07AR13+EBC07BR13;
( 18)INDO028        EBC07R14=EBC07AR14+EBC07BR14;
( 19)INDO029        EBC07R15=EBC07AR15+EBC07BR15;
( 20)INDO030        EBC07R11=EBC07R12+EBC07R13+EBC07R14+EBC07R15;
( 21)INDO011        (OLS  , FA,  71 TO  78)
EBC08R12=-711.1977+0.2137417*GDP73&;
        (-5.371)  ( 12.1)

    R*R= 0.9611(ADJ(R*R)= 0.9546)
    D.W.= 1.85
    S= 60.974
( 22)INDOB01        EBC08R11=EBC08R12+EBC08R13+EBC08R14+EBC08R15;
( 23)INDO031        EBC09R11=EBC09R12+EBC09R16;
( 24)INDO004        EBC10AR12=((GDP73&/GDP73&(-1)-1.0)*ELC10AR12+1.0)*EBC10AR12(-1);
( 25)INDO016        (OLS  , FA,  71 TO  78)
EBC10AR14=-70.73171+0.01728592*CP73&;
        (-11.17)  ( 15.0)

    R*R= 0.9740(ADJ(R*R)= 0.9697)
    D.W.= 1.40
    S= 3.0138
( 26)INDO093        EBC10AR11=EBC10AR12+EBC10AR14;
( 27)INDO032        EBC10BR16=((GDP73&/GDP73&(-1)-1.0)*ELC10BR16+1.0)*EBC10BR16(-1);
( 28)INDO094        EBC10BR11=EBC10BR16;
( 29)INDO095        EBC10R11=EBC10AR11+EBC10BR11;
( 30)INDO096        EBC10R12=EBC10AR12;
( 31)INDO097        EBC10R14=EBC10AR14;
( 32)INDO098        EBC10R16=EBC10BR16;
( 33)INDO042        EBC03R12=EBC04R12+EBC06R12+EBC07R12+EBC08R12+EBC09R12+EBC10R12;
( 34)INDOC00        EBC03R13=EBC04R13+EBC05R13+EBC07R13+EBC08R13;
( 35)INDO044        EBC03R14=EBC06R14+EBC07R14+EBC08R14+EBC10R14;
( 36)INDO045        EBC03R15=EBC04R15+EBC05R15+EBC07R15+EBC08R15;
( 37)INDO046        EBC03R16=EBC09R16+EBC10R16;
( 38)INDO047        EBC03R11=EBC03R12+EBC03R13+EBC03R14+EBC03R15+EBC03R16;
( 39)INDO034        EBC11AR12=((GDP73&/GDP73&(-1)-1.0)*ELC11AR12+1.0)*EBC11AR12(-1);
( 40)INDO005        EBC11AR14=((CP73&/CP73&(-1)-1.0)*ELC11AR14+1.0)*EBC11AR14(-1);
( 41)INDO035        EBC11AR16-((GDP73&/GDP73&(-1)-1.0)*ELC11AR16+1.0)*EBC11AR16(-1);
( 42)INDO111        EBC11AR11=EBC11AR12+EBC11AR14+EBC11AR16;
( 43)INDO036        EBC11CR14=((CP73&/CP73&(-1)-1.0)*ELC11CR14+1.0)*EBC11AR14(-1);
```

```
(22)
( 44)INDOB06         EBC11CR11=EBC11CR14+EBC11CR12;
( 45)INDO048         EBC11R12=EBC11AR12+EBC11CR12;
( 46)INDO049         EBC11R14=EBC11AR14+EBC11CR14;
( 47)INDO050         EBC11R16=EBC11AR16;
( 48)INDO051         EBC11R11=EBC11R12+EBC11R14+EBC11R16;
( 49)INDO008         (OLS  , FA,  72 TO  78)
EBC14R12=-210.2656+2.946872*IIP73&+0.6680052*EBC14R12(-1);
        (-1.176)  ( 1.17)          ( 1.16)

    R*R= 0.9053(ADJ[R*R]= 0.8580)
    D.W.= 2.31
    S= 57.357
( 50)INDO009         (OLS  , FA,  71 TO  78)
LOG(EBC14R14)=-6.162451+1.332767*LOG(CP73&);
              (-4.373)  ( 8.11)

    R*R= 0.9165(ADJ[R*R]= 0.9026)
    D.W.= 0.943
    S= 0.082135
( 51)INDO038         EBC14R15=((CG73&/CG73&(-1)-1.0)*ELC14R15+1.0)*EBC14R15(-1);
( 52)INDO039         EBC14R11=EBC14R12+EBC14R13+EBC14R14+EBC14R15;
( 53)INDOC30         EBC15R11=EBC01R11+EBC03R11+EBC11R11+EBC14R11;
( 54)INDOC31         EBC15R12=EBC01R12+EBC03R12+EBC11R12+EBC14R12;
( 55)INDO159         EBC15R13=EBC01R13+EBC03R13+EBC14R13;
( 56)INDOC32         EBC15R14=EBC01R14+EBC03R14+EBC11R14+EBC14R14;
( 57)INDO161         EBC15R15=EBC03R15+EBC14R15;
( 58)INDOC33         EBC15R16=EBC01R16+EBC03R16+EBC11R16;
( 59)INDO040         EBC16R12=((CG73&/CG73&(-1)-1.0)*ELC16R12+1.0)*EBC16R12(-1);
( 60)INDO010         (OLS  , FA,  72 TO  78)
LOG(EBC16R14)=-2.095017+1.124068*LOG(POP&)+0.6718194*LOG(EBC16R14(-1));
              (-0.668)  ( 0.795)           ( 1.75)

    R*R= 0.9907(ADJ[R*R]= 0.9861)
    D.W.= 2.39
    S= 0.025570
( 61)INDO041         EBC16R11=EBC16R12+EBC16R13+EBC16R14;
( 62)INDO175         EBC17R11=EBC15R11+EBC16R11;
( 63)INDO176         EBC17R12=EBC15R12+EBC16R12;
( 64)INDO177         EBC17R13=EBC15R13+EBC16R13;
( 65)INDO178         EBC17R14=EBC15R14+EBC16R14;
( 66)INDO179         EBC17R15=EBC15R15;
( 67)INDO180         EBC17R16=EBC15R16;
```

(B) Energy Sector Own Use and Loss, etc. (14 equations)

```
(  1)INDO108         EBC10R10A=EBC10AR10A+EBC10BR10A;
```

```
( 2)INDO109     EBC10R10B=EBC10AR10B+EBC10BR10B;
( 3)INDO125     EBC03R10A=EBC04R10A+EBC05R10A+EBC06R10A+EBC07R10A+EBC08R10A
                    +EBC09R10A+EBC10R10A;
( 4)INDOC34     EBC03R10B=EBC04R10B+EBC05R10B+EBC06R10B+EBC07R10B+EBC08R10B
                    +EBC09R10B+EBC10R10B;
( 5)INDO128     EBC11AR10A=ZC11AR10A*EBC11AR01;
( 6)INDOC11     EBC11R10A=EBC11AR10A+EBC11BR10A+EBC11CR10A;
( 7)INDOC12     EBC11R10B=EBC11AR10B+EBC11BR10B+EBC11CR10B;
( 8)INDOC35     EBC12R10B=-EBC12R06-EBC12R07;
( 9)INDOC36     EBC13R10B=-EBC13R06-EBC13R07;
( 10)INDO137    EBC14R10B=-(EBC14R07*ZC14R10);
( 11)INDOC19    EBC15R10A=EBC01R10A+EBC02R10A+EBC03R10A+EBC11R10A;
( 12)INDOC20    EBC15R10B=EBC01R10B+EBC02R10B+EBC03R10B+EBC11R10B+EBC14R10B;
( 13)INDOB12    EBC17R10A=EBC15R10A+EBC16R10A;
( 14)INDOB13    EBC17R10B=EBC15R10B+EBC16R10B;
```

(C) Energy Transformation Sector (32 equations)

```
( 1)INDO138     EBC14R07=EBC14R11/(1.0-ZC14R10);
( 2)INDO127     EBC11AR08=-1.0*(EBC11CR08-EBC01R08-EBC03R08);
( 3)INDOC01     EBC11CR08=EBC11CR11-EBC11CR10A-EBC11CR10B;
( 4)INDOC08     EBC11R08=EBC11AR08+EBC11CR08;
( 5)INDOC09     EBC11R09B-EBC11AR09B+EBC11BR09B;
( 6)INDOC10     EBC04R09A=-(EBC02R09A*YC04R09);
( 7)INDOB14     EBC05R09A=-(EBC02R09A*YC05R09);
( 8)INDOB15     EBC06R09A=-(EBC02R09A*YC06R09);
( 9)INDO072     EBC07AR09A=-(EBC02R09A*YC07AR09);
( 10)INDO073    EBC07BR09A=-(EBC02R09A*YC07BR09);
( 11)INDO074    EBC07R09A=EBC07AR09A+EBC07BR09A;
( 12)INDO075    EBC07R07=EBC07AR07+EBC07BR07;
( 13)INDO086    EBC07R08=EBC07AR08+EBC07BR08;
( 14)INDO087    EBC08R09A=-(EBC02R09A*YC08R09);
( 15)INDOB02    EBC09R09A=-(EBC02R09A*YC09R09);
( 16)INDOB03    EBC10AR09A=-(EBC02R09A*YC10AR09);
( 17)INDOB04    EBC10BR09A=-(EBC02R09A*YC10BR09);
( 18)INDOB05    EBC10R09A=EBC10AR09A+EBC10BR09A;
( 19)INDO106    EBC10R09B=EBC10AR09B+EBC10BR09B;
( 20)INDO107    EBC03R07=EBC07R07+EBC08R07;
```

(24)

(21) INDO120 EBC03R08=EBC07R08;

(22) INDO121 EBC03R09A=EBC04R09A+EBC05R09A+EBC06R09A+EBC07R09A+EBC08R09A+EBC09R09A+EBC10R09A;

(23) INDO122 EBC03R09B=EBC09R09B+EBC10AR09B;

(24) INDO123 EBC01R07=-(EBC14R07/ZC14R06+EBC03R07+EBC12R07+EBC13R07);

(25) INDO140 EBC15R07=EBC01R07+EBC03R07+EBC12R07+EBC13R07+EBC14R07+EBC12R10B+EBC13R10B;

(26) INDOC37 EBC15R08=EBC01R08+EBC03R08+EBC11R08;

(27) INDOC16 EBC15R09A=EBC02R09A+EBC03R09A+EBC11R09A;

(28) INDOC17 EBC15R09B=EBC03R09B+EBC11R09B;

(29) INDOC18 EBC17R07=EBC15R07;

(30) INDO171 EBC17R08=EBC15R08;

(31) INDO172 EBC17R09A=EBC15R09A;

(32) INDOB10 EBC17R09B=EBC15R09B;

(D) Primary Energy Supply Sector (61 equations)

(1) INDOC02 EBC01R06=EBC01R11-EBC01R10A-EBC01R10B-EBC01R07;

(2) INDO142 EBC01R01=EBC01R06-EBC01R05-EBC01R03-EBC01R02;

(3) INDOC03 EBC02R06=-EBC02R10A-EBC02R10B-EBC02R09A;

(4) INDO144 EBC02R03=EBC02R06-EBC02R05-EBC02R02-EBC02R01;

(5) INDOC04 EBC04R06=EBC04R11-EBC04R10A-EBC04R10B-EBC04R09A;

(6) INDO067 EBC04R02=EBC04R06-EBC04R05-EBC04R04-EBC04R03;

(7) INDO021 EBC05R06=EBC05R11-EBC05R10A-EBC05R10B-EBC05R09A;

(8) INDO069 EBC05R02=EBC05R06-EBC05R05-EBC05R04;

(9) INDOC22 EBC06R06=EBC06R11-EBC06R10A-EBC06R10B-EBC06R09A;

(10) INDO077 EBC06R02=EBC06R06-EBC06R05;

(11) INDO023 EBC07AR06=EBC07AR11-EBC07AR10A-EBC07AR10B-EBC07AR09A-EBC07AR08-EBC07AR07;

(12) INDO079 EBC07AR02=EBC07AR06-EBC07AR05-EBC07AR04;

(13) INDOC24 EBC07BR06=EBC07BR11-EBC07BR10A-EBC07BR10B-EBC07BR09A-EBC07BR08-EBC07BR07;

(14) INDO081 EBC07BR02=EBC07BR06-EBC07BR05-EBC07BR04;

(15) INDO082 EBC07R02=EBC07AR02+EBC07BR02;

(16) INDO083 EBC07R04=EBC07AR04+EBC07BR04;

(17) INDO084 EBC07R05=EBC07AR05+EBC07BR05;

(18) INDO085 EBC07R06=EBC07AR06+EBC07BR06;

(19) INDO025 EBC08R06=EBC08R11-EBC08R10A-EBC08R10B-EBC08R09A-EBC08R08-EBC08R07;

```
( 20)INDO090        EBC08R03=EBC08R06-EBC08R05-EBC08R04-EBC08R02;
( 21)INDO026        EBC09R06=EBC09R11-EBC09R10A-EBC09R10B-EBC09R09A-EBC09R09B;
( 22)INDO092        EBC09R03=EBC09R06-EBC09R05-EBC09R02;
( 23)INDOC27        EBC10AR06=EBC10AR11-EBC10AR10A-EBC10AR10B-EBC10AR09A
                                                              -EBC10AR09B;
( 24)INDO100        EBC10AR03=EBC10AR06-EBC10AR05-EBC10AR02;
( 25)INDOC28        EBC10BR06=EBC10BR11-EBC10BR10A-EBC10BR10B-EBC10BR09A
( 26)INDO102        EBC10BR03=EBC10BR06-EBC10BR05-EBC10BR02;
( 27)INDOB07        EBC10R02=EBC10AR02+EBC10BR02;
( 28)INDO103        EBC10R03=EBC10AR03+EBC10BR03;
( 29)INDO104        EBC10R05=EBC10AR05+EBC10BR05;
( 30)INDO105        EBC10R06=EBC10AR06+EBC10BR06;
( 31)INDO115        EBC03R02=EBC04R02+EBC05R02+EBC06R02+EBC07R02+EBC08R02
                                                              +EBC10R02;
( 32)INDO116        EBC03R03=EBC04R03+EBC08R03+EBC09R03+EBC10R03;
( 33)INDO117        EBC03R04=EBC04R04+EBC05R04+EBC07R04+EBC08R04;
( 34)INDO118        EBC03R05=EBC04R05+EBC05R05+EBC06R05+EBC07R05+EBC08R05
                                                    +EBC09R05+EBC10R05;
( 35)INDO119        EBC03R06=EBC04R06+EBC05R06+EBC06R06+EBC07R06+EBC08R06
                                                    +EBC09R06+EBC10R06;
( 36)INDOC29        EBC11AR06=EBC11AR11-EBC11AR10A-EBC11AR10B-EBC11AR10B-
                                                    EBC11AR09B-EBC11AR08;
( 37)INDO132        EBC11AR01=EBC11AR06;
( 38)INDO112        EBC11BR06=-EBC11BR10A-EBC11BR10B-EBC11BR09B;
( 39)INDO113        EBC11BR03=EBC11BR06;
( 40)INDOC05        EBC11R01=EBC11AR01;
( 41)INDOC06        EBC11R03=EBC11BR03;
( 42)INDOC07        EBC11R06=EBC11AR06+EBC11BR06;
( 43)INDO133        EBC12R06=-EBC12R07;
( 44)INDO134        EBC12R01=EBC12R06;
( 45)INDO135        EBC13R06=-EBC13R07-EBC13R06=-EBC13R07-EBC13R08;
( 46)INDO136        EBC13R01=EBC13R06;
( 47)INDO139        EBC14R06=EBC14R07/2C14R06;
( 48)INDOC13        EBC15R01=EBC01R01+EBC02R01+EBC11R01+EBC12R01+EBC13R01;
( 49)INDO146        EBC15R02=EBC01R02+EBC02R02+EBC03R02;
( 50)INDOC14        EBC15R03=EBC01R03+EBC02R03+EBC03R03+EBC11R03;
( 51)INDO148        EBC15R04=EBC03R04;
( 52)INDO149        EBC15R05=EBC01R05+EBC02R05+EBC03R05;
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(26)

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( 53)INDOC15      EBC15R06=EBC01R06+EBC02R06+EBC03R06+EBC11R06+EBC12R06
                                                                   +EBC13R06;
( 54)INDO163      EBC16R06=EBC16R11-EBC16R10A-EBC16R10B;
( 55)INDO164      EBC16R01=EBC16R06;
( 56)INDO165      EBC17R01=EBC15R01+EBC16R01;
( 57)INDO166      EBC17R02=EBC15R02;
( 58)INDO167      EBC17R03=EBC15R03;
( 59)INDO168      EBC17R04=EBC15R04;
( 60)INDO169      EBC17R05=EBC15R05;
( 61)INDO170      EBC17R06=EBC15R06+EBC16R06;
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GENERAL MANUAL OF ENERGY SUPPLY-DEMAND FORECAST II

FORECAST RESULTS AND PROBLEMS

GENERAL MANUAL OF ENERGY SUPPLY-DEMAND FORECAST II

– FORECAST RESULTS AND PROBLEMS –

1. Economic Forecast and Problems

1-1. Major Prior Conditions of Economic Forecast

Major factors which are considered to affect future economic activities of Indonesia greately include government consumption expenditure, crude oil output and crude oil export price.

As to government consumption expenditure, it was assumed that it would show a stable growth supported by increasing government revenue which could be expected as a result of future increases in crude oil price. In the concrete terms, it was forecast that growth over the 5-year period of 1983/1978 would average about +27% per year and that over the 12-year period of 1990/1978 about +22% per year.

Crude oil output was forecast based on a production plan of the Indonesian Government and, as the result, output in 1983 was forecast to total 660 million barrels and that in 1990, 690 million barrels. In other words, it was assumed that rate of increase would not become so high.

As to crude oil export price, it is considered that tight supply-demand conditions of oil will continue as a basic trend. In addition, it seems difficult to introduce substitute sources of energy for oil during the period subject to this forecast. Accordingly, it was forecast that an increase in crude oil export price over the 5-year period of 1983/1978 would average +25% per year and that over the 12-year period of 1990/1978 +14% per year. In other words, it was assumed that tempo of price increases would be very high.

As to other prior conditions, it was assumed that growth of world import over a period up to 1990 would average +5.0% per year, world export price index over the same period

Table 1 Macro-Economic Prior Conditions (1971–1990/1978)

Item \ Year	1971	1973	1977	1978	1983	1990	1978/1971	1978/1973	1983/1978	1990/1978
PETROP&	[1000 Barrel] 325614	488550	615160	596648	659000	690000	[%] 9.0	4.1	2.0	1.2
PCROIL&	[$/Barrel] 2.19	3.27	12.39	12.70	38.03	61.59	[%] 28.5	31.2	24.5	14.1
PAGRGPE73&	(CA1973=100) 66.4	100.0	1174.4	187.5	239.3	305.9	[%] 16.0	13.4	5.0	4.2
CG&	[RP 10⁹] 341.0	716.0	2019.4	2331.5	7717.0	26286.2	[%] 31.6	26.6	27.0	22.4
WIM75&	[$ 10⁹] 664.2	824.8	964.2	1009.3	1288.1	1812.5	[%] 6.2	4.1	5.0	5.0
PWE75&	(CA1975=100) 49.0	67.0	111.0	123.0	216.8	407.2	[%] 14.1	12.9	12.0	10.5

slightly higher than +10% per year and farm product export price over the same period about +5.0% per year.

1-2. Results and Problems of Economic Forecast

According to an economic forecast made based on the prior conditions aforementioned, it is estimated that growth rate of gross domestic products (GDP) over the 5-year period of 1983/1978 will average +6.6% per year and that over the 12-year period of 1990/1978 +6.5% per year.

Of various items of final demand, government consumption expenditure and gross capital formation are considered to play an important role in facilitating growth, while items such as private consumption expenditure and export are considered to function as neutral factors. As to commodity prices, both consumer price and wholesale price are considered to calm down compared with their trends in the past. Meantime, it is considered that future economic growth greatly depends on the aforementioned point, in other words, whether or not commodity prices can be calmed down.

As problems related to an economic forecast, it can be pointed out, first of all, if it is possible to maintain such a high growth of government consumption expenditure as mentioned. To maintain such a high growth, a growth of oil revenue at high tempo is required. Also it is considered necessary to raise tempo of increases in crude oil output. Among other problems, there is a problem related to future trend of commodity prices, that is, if increases in commodity prices will remain within the range as mentioned.

To make then remain within the range it is considered necessary to make utmost efforts for hammering out appropriate policies.

Table 2 Major Macro-Economic Variables (1971–1990/1978)

Item \ Year	1971	1973	1977	1978	1983	1990	1978/1971	1978/1973	1983/1978	1990/1978
GDP&	[RP 10億] 3672.0	6753.4	18705.9	21788.4	57573.1	158458.7	[%] 29.0	26.4	21.5	18.0
GDP73&	[RP 10億] 5544.7	6753.4	8761.0	9392.2	12933.0	19897.4	[%] 7.8	6.8	6.6	6.5
CP73&	[RP 10億] 3998.4	4790.7	6372.3	6754.6	9126.0	13728.5	[%] 7.8	7.1	6.2	6.1
CG73&	[RP 10億] 518.3	716.0	1013.6	1065.0	1969.8	3610.8	[%] 10.8	8.3	13.1	10.7
ITP73&	[RP 10億] 866.9	1208.0	2009.5	2272.2	3632.1	6354.1	[%] 14.8	13.5	9.8	8.9
EXP73&	[RP 10億] 890.8	1354.3	1743.8	1618.6	2326.2	3479.8	[%] 8.9	3.6	7.5	6.6
IMP73&	[RP 10億] 729.7	1315.6	2378.2	2318.2	4120.8	7275.8	[%] 18.0	12.0	12.2	10.0
NI73&	[RP 10億] 4832.8	5740.7	7343.3	7839.2	10473.3	15790.5	[%] 7.2	6.4	6.0	6.0
CPI73&	(CA1973=100) 71.7	100.0	222.8	240.9	445.0	834.6	[%] 18.9	19.2	13.1	10.9
WPI73&	(CA1973=100) 63.7	100.0	205.7	222.5	409.8	768.8	[%] 19.6	17.3	13.0	10.9

2. Energy Demand Forecast and Problems

2-1. Forecast on Total Demand for Primary Energies/Elasticity to GDP and Problems

Total of primary energy demand (= total of primary energy supply), which was 88,621 x 10^3 TCE in 1978, is forecast to increase to 120,385 x 10^3 TCE in 1983 and to 190,986 x 10^3 TCE in 1990. Also energy demand per unit of GDP is forecast to change to 9.31 (10^3 TCE/ lbn. rupiahs) in 1983 and to 9.60 (10^3 TCE/lbn. rupiahs) in 1990 from 9.44 (10^3 TCE/lbn. rupiahs) in 1978. As to elasticity to GDP, which was 0.91 over the 5-year period of 1978/ 1973, the figure is estimated to change to 0.96 over the coming 5-year period of 1983/1978 and to 1.02 over the 12-year period of 1990/1978.

As a problem related to the forecast mentioned above, the upward trend of elasticity can be pointed out. Judging from worldwide moves toward energy conservation, it is considered more appropriate to assume that elasticity of energy demand to GDP will level off or diminish so long as such a factor as major energy-consuming industries, including steel, petrochemical and cement, plan to increase their production substantially does not surface. However, because elasticity can vary depending on energy demand structure of individual countries, it is considered necessary to conduct even more detailed qualitative analysis in the future.

Table 3 Total Demand for Primary Energies/Elasticity to GDP (1973–1990/1978)

Item \ Year	1973	1978	1983	1990	1978/1973	1983/1978	1990/1978
EBC17R06	[10^3 TCE] 65631	88621	120385	190986	[%] 6.19	6.32	6.61
GDP	[RP 10bil] 6753.4	9392.2	12933.0	19897.4	[%] 6.82	6.61	6.46
EBC17R06/GDP	[10^3 TCE/RP 10bil] 9.72	9.44	9.31	9.60	[%] △0.58	△0.28	0.14
Elasticity to GDP	–	–	–	–	0.91	0.96	1.02

2-2. Forecast on Energy Demand by Sectors and Problems

As regards shares held by individual sectors in final energy consumption, the transportation and residential and commercial sectors showed sharp increases, while the industry sector recorded a substantial decrease.

As a problem related to the forecast, the trend of decreasing share of the industry sector can be pointed out. This is because the trend in the past is reflected as it was. It is considered necessary in the future to take production trend of energy-consuming industries, such as steel, petrochemical and cement, into a consideration.

Table 4 Energy Demand by Sectors (1973–1990)

Item \ Year	1973		1977		1978		1983		1990	
EBC17R01	[10^3TCE] 148,973		[10^3TCE] 183,130		[10^3TCE] 190,896		[10^3TCE] 237,446		[10^3TCE] 292,762	
EBC17R02	2,788		9,894		9,883		25,445		45,702	
EBC17R03	△86,367		△110,561		△111,629		△141,671		△146,248	
EBC17R04&R05	△12		1,728		△1,137		△835		△1,230	
EBC17R06	65,631		84,769		88,621		120,385		190,986	
EBC17R10A	△9,187		△19,637		△22,046		△25,432		△33,501	
EBC17R11	55,359	[%] 100.0	60,274	[%] 100.0	63,997	[%] 100.0	94,953	[%] 100.0	157,485	[%] 100.0
EBC17R12	25,456	46.0	13,641	22.6	11,882	18.6	11,854	12.5	18,512	11.8
EBC17R13	3,885	7.0	6,788	11.3	7,508	11.7	12,212	12.9	21,097	13.4
EBC17R14	24,950	45.1	37,915	62.9	42,041	65.7	63,167	66.5	107,119	68.0
EBC17R15	663	1.2	993	1.6	1,020	1.6	1,730	1.8	2,897	1.8
EBC17R16	405	0.7	937	1.6	1,547	2.4	5,989	6.3	7,860	5.0

2-3. Forecast on Demands for Individual Energy Resources in Industry Sector and Problems

To estimate demands for individual energy resources in the industry sector, elements listed below were introduced.

(A) Demand for solid fuel = exogenous variable

(B) Demand for gasoline = exogenous variable

(C) Demand for kerosene = exogenous variable

(D) Demand for diesel oil = f (Production Index of Mining Industry)

(E) Demand for heavy fuel oil = (GDP)

(F) Demands for naphtha & NGL = exogenous variable

(G) Demand for LPG = f (GDP, elasticity to GDP)

(H) Demand for natural gas = f (GDP, elasticity to GDP)

(I) Demand for town gas = exogenous variable

(J) Demand for electric power = f (Production Index of Mining Industry)

(K) Demand for non-commercial energy = exogenous variable

Table 5 Demands for Individual Energy Resources in Industry Sector (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1978/1978	1990/1978
	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[%]	[%]	[%]
EBC01R12	43	0.2	50	0.4	453	3.8	453	2.4	3.1	55.4	20.2
EBC03R12	1841	7.2	3863	32.4	6445	54.4	11858	64.1	16.0	10.8	9.8
EBC07R12	1085	4.3	2471	20.7	4340	36.6	8219	44.4	17.9	11.9	10.5
EBC08R12	750	2.9	1360	11.4	2053	17.3	3542	19.1	12.6	8.6	8.3
EBC10R12	6	0.0	32	0.3	51	0.4	97	0.5	39.8	9.8	9.7
EBC11R12	167	0.7	1139	9.6	1827	15.4	3453	18.7	46.8	9.9	9.7
EBC11AR12	167	0.7	1139	9.6	1827	15.4	3453	18.7	46.8	9.9	9.7
EBC11DR12	0	0.0	0	0.0	0	0.0	0	0.0	–	–	–
EBC14R12	227	0.9	574	4.8	1066	9.0	2006	10.8	20.4	13.2	11.0
EBC16R12	23185	91.1	6288	52.8	2063	17.4	743	4.0	△23.0	△20.0	△16.3
Total'	25463	100.0	11914	100.0	11854	100.0	18512	100.0	△14.1	△ 0.1	3.7

2-4. Forecast on Demands for Individual Energy Resources in Transportation Sector and Problems

To estimate demands for individual energy resources in the transport category, elements listed below were introduced.

- (A) Demand for solid fuel = exogenous variable
- (B) Demand for gasoline = f (number of registered motor vehicles price of gasoline)
- (C) Demand for jet fuel oil = f (GDP)
- (D) Demand for diesel oil = f (GDP, price of diesel oil)
- (E) Demand for heavy fuel oil = exogenous variable
- (F) Demand for electric power = exogenous variable
- (G) Demand for non-commercial energies = exogenous variable

According to forecast results, energy demand in the transportation sector, which was 7,508 × 10^3 TCE in 1978, will increase to 12,212 × 10^3 TCE in 1983 and to 21,097 × 10^3 TCE in 1990.

As to demand by type of energy, all of the three types of energies including gasoline, jet fuel oil and diesel oil are showing sharp growth reflecting stable increases in number of registered motor vehicles and GDP.

As a problem related to the forecast, it can be pointed out that the figure representing the number of registered motor vehicles includes numbers of both gasoline-powered cars and diesel-powered cars. Also, numbers of four-wheeled cars and two-wheeled cars are included in the figure. Accordingly, breakdown of the number of registered motor vehicles should be promoted as a future subject. Besides, it is necessary to review significance of total transportation system including automobile, railroad, aviation and marine transportation.

Table 6 Demands for Individual Energy Resources in Transportation Sector (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1983/1978	1990/1978
	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[%]	[%]	[%]
EBC03R13	3842	98.9	7443	99.1	12154	99.5	21057	99.8	14.1	10.3	9.1
EBC04R13	2046	52.7	3644	48.5	6374	52.2	12558	59.5	12.2	11.8	10.9
EBC05R13	348	9.0	677	9.0	1126	9.2	1998	9.5	14.2	10.7	9.4
EBC07R13	1017	26.2	2687	35.8	4204	34.4	6051	28.7	21.4	9.4	7.0
EBC08R13	431	11.1	436	5.8	450	3.7	450	2.1	0.2	0.6	0.3
EBC01R13 etc.	42	1.1	64	0.9	58	0.5	40	0.2	8.8	△1.9	△3.8
Total	3885	100.0	7508	100.0	12212	100.0	21097	100.0	14.1	10.2	9.0

2-5. Forecast on Demands for Individual Energy Resources in Residential and Commercial Sector and Problems

To estimate demands for individual energy resources in residential and commercial sector, elements listed below were introduced.

(A) Demand for solid fuel = exogenous variable
(B) Demand for kerosene = f (private consumption expenditure, price of kerosene)
(C) Demand for diesel oil = exogenous variable
(D) Demand for heavy fuel oil = exogenous variable
(E) Demand for LPG = f (private consumption expenditure)
(F) Demand for natural gas = f (private consumption expenditure, elasticity to private consumption expenditure)
(G) Demand for city gas = f (private consumption expenditure, elasticity to private consumption expenditure)
(H) Demand for electric power = f (private consumption expenditure)
(I) Demand for non-commercial energies = f (population)

According to forecast results, energy demand in the residential and commercial sector, which was 42,041 x 10^3 TCE in 1978, will increase to 63,167 x 10^3 TCE in 1983 and to 107,119 x 10^3 TCE in 1990.

As to demand by type of energy, it is shown in the forecast that share of kerosene will increase slightly while that of non-commercial energies will decrease slightly.

As a problem related to the forecast, it can be pointed out that non-commercial energies are estimated to hold a substantial share of 77% even in 1990. It is considered that shares to be held by kerosene, gas and electric power will increase as a result of improved living standards which can be realized attendant upon future economic growth while share held by non-commercial energies will become substantially lower than that indicated in this forecast.

Table 7 Demands for Individual Energy Resources in Residential and Commercial Sector (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1983/1978	1990/1978
	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[10^3TCE]	[%]	[%]	[%]	[%]
EBC03R14	4774	19.1	8555	20.3	13834	21.9	23781	22.2	12.4	10.1	8.9
EBC06R14	4766	19.1	8507	20.2	13747	21.8	23615	22.0	12.3	10.1	8.9
EBC10AR14	8	0.0	48	0.1	87	0.1	167	0.2	43.1	12.6	10.9
EBC11R14	16	0.1	16	0.0	5	0.0	8	0.0	0.0	△20.8	△ 5.6
EBC14R14	165	0.7	302	0.7	400	0.6	689	0.6	12.9	5.8	7.1
EBC16R14	19995	80.1	33168	78.9	48928	77.5	82640	77.1	10.7	8.1	7.9
Total	24950	100.0	42041	100.0	63167	100.0	107119	100.0	11.0	8.5	8.1

2-6. Forecast on Demands for Individual Energy Resources in Government Sector and Problems

To estimate demands for individual energy resources in the government sector, elements listed below were introduced.

(A) Demand for gasoline = exogenous variable

(B) Demand for jet fuel oil = f (government consumption expenditure, elasticity to government consumption expenditure)

(C) Demand for diesel oil = f (government consumption expenditure, elasticity to government consumption expenditure)

(D) Demand for heavy fuel oil = exogenous variable

(E) Demand for electric power = f (government consumption expenditure, elasticity to government consumption expenditure)

According to forecast results, energy demand in the government sector, which was 1,020 × 10^3 TCE in 1978, will increase to 1,730 × 10^3 TCE in 1983 and to 2,897 × 10^3 TCE in 1990.

As to demand by type of energy, it is forecast that jet fuel oil and diesel oil will show sharp increases.

As a problem related to the forecast, lack of objectivity can be pointed out. In other words, it was not possible to estimate significant equations for making the forecast because figures representing past achievements were too small in value and showed sharp fluctuation and, as a result, there was no alternative but to use elasticity or process them as exogenous variables.

As a future subject, it is required to review energy consumption plans of public institutions including government, government agencies and military.

Table 8 Demands for Individual Energy Resources in Government Sector (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1983/1978	1990/1978
	[10^3 TCE]	[%]	[10^3 TCE]	[%]	[10^3 TCE]	[%]	[10^3 TCE]	[%]	[%]	[%]	[%]
EBC03R15	627	94.6	973	95.4	1643	95.0	2738	94.5	9.2	11.0	9.0
EBC04R15	300	45.2	285	27.9	300	17.3	300	10.4	△0.1	1.0	0.4
EBC05R15	0	0.0	54	5.3	100	5.8	183	6.3	–	13.1	10.7
EBC07R15	256	38.6	579	56.8	1171	67.7	2146	74.1	17.7	15.1	11.5
EBC08R15	71	10.7	54	5.3	72	4.2	109	3.8	△5.3	5.9	3.5
EBC14R15	36	5.4	47	4.6	87	5.0	159	5.5	5.5	13.1	10.7
Total	663	100.0	1020	100.0	1730	100.0	2897	100.0	9.0	11.1	9.1

2-7. Electric Power Supply-Demand Forecast and Problems

It is forecast that demand for electric power, which was 1,117 × 10^3 TCE in 1978, will steadily increase to 1,827 × 10^3 TCE in 1983 and to 3,358 × 10^3 TCE in 1990.

As to demand by type of sector, it is shown in the forecast that the industry sector will record a high growth while growth in the residential and commercial sector will stagnate to some extent.

As a problem related to the forecast, it can be pointed out that growth in the civil users category remains slightly too low. It is considered that substitution for non-commercial energies by electric power will be taken place at relatively higher place than that shown in the forecast as a result of improved living standards expected in the future.

As to constitution of fuel for electric power generation, it is shown in the forecast that share of coal for thermal electric power generation will record a sharp increase, which will result in a sharp decrease in share of oil for thermal electric power generation.

As a problem related to the forecast, it can be pointed out if the switch over from coal to oil in the field of thermal electric power generation will be carried out so rapidly as indicated in the forecast. Also, while public utility and auto-generation are mixed up in the forecast, it should be noted that auto-generation is very popular in Indonesia and holds a very important position in respect to electric power supply. Accordingly, it is required in the future to separate auto-generation from public utility and made an independent forecast.

Table 9 Electric Power Demand by Sectors (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1983/1978	1990/1978
	[10³TCE]	[%]	[10³TCE]	[%]	[10³TCE]	[%]	[10³TCE]	[%]	[%]	[%]	[%]
EBC14R12	227	42.2	574	51.4	1066	58.3	2006	59.7	20.4	13.2	11.0
EBC14R13	0	0.0	0	0.0	0	0.0	0	0.0	–	–	–
EBC14R14	165	30.7	302	27.0	400	21.9	689	20.5	12.9	5.8	7.1
EBC14R15	36	6.7	47	4.2	87	4.8	159	4.7	5.5	13.1	10.7
EBC14R10A	109	20.3	194	17.4	274	15.0	504	15.0	12.2	7.1	8.3
Total	538	100.0	1117	100.0	1827	100.0	3358	100.0	15.7	10.3	9.6

Table 10 Constitution of Fuel for Electric Power Generation (1973–1990/1978)

Item \ Year	1973		1978		1983		1990		1978/1973	1983/1978	1990/1978
	[10³TCE]	[%]	[10³TCE]	[%]	[10³TCE]	[%]	[10³TCE]	[%]	[%]	[%]	[%]
EBC01R07	45	3.6	76	2.2	1321	21.7	3373	30.1	11.1	77.0	37.2
EBC03R07	1023	81.1	3090	87.9	4215	69.2	6689	59.8	24.7	6.4	6.6
EBC07R07	908	72.0	2452	69.8	3265	53.6	4884	43.6	22.0	5.9	5.9
EBC08R07	115	9.1	638	18.2	950	15.6	1805	16.1	40.9	8.3	9.1
EBC12R07	0	0.0	0	0.0	0	0.0	0	0.0	–	–	–
EBC13R07	193	15.3	348	9.9	555	9.1	1130	10.1	12.5	9.8	10.3
Total	1261	100.0	3514	100.0	6091	100.0	11192	100.0	22.7	11.6	10.1

2-8. Changes in and Forecast on Oil Demand

It is forecast that demands for petroleum products, which was 24,353 × 10³ TCE in 1978, will increase to 42,555 × 10³ TCE in 1983 and to 70,712 × 10³ TCE in 1990. As to mean growth rate per year, it is forecast +12% will be achieved over the 5-year period of 1983/1978 and +9% over the 12-year period of 1990/1978.

Regarding demand by type of petroleum product, it is noted that light oil products, such as gasoline, jet fuel oil and kerosene, are forecast to show remarkable growth.

On the other hand, it should be noted that supplies (production) of petroleum products are estimated by processing crude oil input as an exogenous variable and assuming rate of production gain as almost same as current rate.

This means that imports will be required as to petroleum products for which domestic demands are growing rapidly while it will become possible to export petroleum products for which domestic demands remain at low levels. Petroleum products which are considered to require imports include gasoline, jet fuel oil, kerosene and diesel oil, while those which can be exported in the future are heavy fuel oil and petroleum products other than mentioned before. To make the forecast discussed in this section, domestic crude oil, crude oil import and crude oil input into refineries were processed as exogenous variables and the remaining was estimated as crude oil export. Meantime, crude oil export is forecast to remain at almost the same level as in the past due to expected low growth of domestic crude oil production.

As a problem related to the forecast, rate of production gain which is assumed to remain at almost the same level as current rate can be pointed out. Because it is forecast that domestic demands for gasoline, jet fuel oil and kerosene will show sharp increases, it is reasonable to assume that a priority will be given to introduce facilities capable of producing light oil in larger quantities when capacity expansion of refining facilities is planned in the future. In other words, it is considered that rate of production gain will change depending on products as a result of such a policy as mentioned above. That is, it is considered necessary to prepare a model in which fluctuation of rate of production gain can be expressed depending on changes in demands for individual petroleum products.

Table 11 Supply-Demand of Oil (1973–1990/1978)

Item \ Year	1973	1978	1983	1990	1978/1973	1983/1978	1990/1978
EBC02R01	[10^3TCE] 97903	[10^3TCE] 119578	[10^3TCE] 131800	[10^3TCE] 138000	[%] 4.1	[%] 2.0	[%] 1.2
EBC02R02	220	6224	12448	12448	95.1	14.9	5.9
EBC03R02	2565	3659	13413	33372	7.4	29.7	20.2
EBC04R02	0	3	1363	6241	–	240.0	89.0
EBC05R02	161	652	1569	2903	32.3	19.2	13.3
EBC06R02	400	898	5088	12828	17.6	41.5	24.8
EBC07R02	331	2024	4897	11200	43.6	19.3	15.3
EBC08R02	1647	0	0	0	–	–	–
EBC09R02	0	0	415	119	–	–	–
EBC10AR02	0	4	4	4	–	0.0	0.0
EBC10BR02	26	77	77	47	24.3	0.0	0.0
EBC03R11	12354	24353	42555	70712	14.5	11.8	9.3
Fuels Total-R11	12106	23837	41817	69524	14.5	11.9	9.3
EBC04R11	2345	3928	6674	12858	10.9	11.2	10.4
EBC05R11	348	731	1226	2181	16.0	10.9	9.5
EBC06R11	4759	8475	13747	23615	12.2	10.2	8.9
EBC07R11	3287	8214	13025	21345	20.1	9.7	8.3
EBC08R11	1367	2489	3525	5905	12.7	7.2	7.5
EBC09R11	0	0	3620	3620	–	–	–
EBC10AR11	14	80	138	264	41.7	11.5	10.5
EBC10BR11	234	436	600	924	13.3	6.6	6.5
EBC02R03	74056	92568	99361	94596	4.6	1.4	0.2
EBC03R03	12310	11513	16839	19074	△1.3	7.9	4.3
EBC08R03	70	411	2026	1094	42.5	37.6	8.5
EBC09R03	0	2227	0	0	–	–	–
EBC10AR03	1	657	696	590	266.0	1.2	△0.9
EBC10BR03	12240	8218	14117	17390	△7.7	11.4	6.4
EBC03R04	248	609	835	1230	19.7	6.5	6.0

3. Lists of Calculation Results

Listed below are actual values of endogenous and exogenous variables over the 8-year period from 1971 to 1978 and forecast values of them over the 12-year period from 1979 to 1990.

3-1. Actual Values (1971–1978)

(1) Endogenous Variables

FA	ES731	%CCL	CPI	%CCL	CPI731	%CCL	CP731	%CCL	EXC01R01	%CCL	EXC01R05	%CCL
71	518.		2833.		72.		3938.		184.		136.	
72	561.	8.2	3402.	20.1	76.	6.5	4276.	6.9	167.	-9.2	174.	28.1
73	716.	27.7	4791.	40.8	109.	39.9	4791.	12.0	141.	-15.6	175.	-18.7
74	641.	-10.5	7259.	51.5	141.	40.7	5454.	13.8	149.	5.9	142.	-18.9
75	836.	39.3	9745.	29.5	169.	19.0	5677.	4.1	192.	28.7	194.	35.6
76	897.	7.3	10854.	15.7	201.	19.3	6032.	6.2	173.	-9.9	162.	-16.5
77	1014.	13.6	12312.	17.7	223.	11.9	6372.	5.6	222.	28.3	201.	24.1
78	1065.	5.3	14535.	18.1	241.	8.6	6755.	6.0	258.	16.2	186.	-7.5

FA	EXC01R07	%CCL	EXC01R11	%CCL	EXC02R03	%CCL	EXC02R05	%CCL	EXC03R02	%CCL	EXC03R03	%CCL
71	-66.		94.		-48913.		17686.		1329.		-7539.	
72	-69.	4.5	81.	-13.8	-58917.	22.8	26585.	15.1	1964.	47.8	-9791.	29.9
73	-45.	-34.8	83.	2.5	-74056.	25.6	24271.	17.9	2565.	30.6	-12319.	25.7
74	-57.	26.7	82.	-1.2	-75933.	2.5	23289.	-4.4	2849.	10.7	-9972.	-19.0
75	-77.	35.1	99.	20.7	-72759.	-4.2	22568.	-3.1	2795.	-1.6	-8843.	-11.3
76	-71.	-7.8	86.	-13.1	-90074.	23.8	21529.	-4.6	6687.	139.6	-8148.	-7.9
77	-77.	8.5	111.	27.1	-97251.	8.0	34000.	57.9	3928.	-41.1	-12039.	47.8
78	-76.	-1.3	105.	-5.4	-92569.	-4.8	32682.	-3.9	3657.	-6.8	-11513.	-4.4

FA	EXC03R04	%CCL	EXC03R05	%CCL	EXC03R06	%CCL	EXC03R07	%CCL	EXC03R08	%CCL	EXC03R09A	%CCL
71	-337.		0.		-6210.		-792.		-13.		17369.	
72	-220.	-34.7	0.	---	-7827.	26.0	-786.	-0.8	-17.	30.8	19952.	14.9
73	-248.	12.7	0.	---	-9745.	24.5	-1023.	30.2	-21.	23.5	23269.	16.3
74	-459.	85.1	0.	---	-7133.	-26.8	-825.	-19.4	-23.	9.5	23885.	2.9
75	-417.	-9.2	0.	---	-6047.	-15.2	-1254.	52.0	-21.	-8.7	21352.	-10.6
76	-437.	4.8	-522.	---	-2293.	-68.9	-2059.	49.3	-21.	0.0	21898.	2.5
77	-578.	32.3	355.	-159.4	-7836.	211.2	-2471.	20.0	-23.	9.5	30441.	39.1
78	-609.	5.4	46.	-28.9	-7786.	-0.6	-3510.	25.1	-25.	8.7	31671.	4.0

FA	EXC03R09B	%CCL	EXC03R10A	%CCL	EXC03R10B	%CCL	EXC03R11	%CCL	EXC03R12	%CCL	EXC03R13	%CCL
71	0.		0.		0.		8756.		1219.		3234.	
72	0.	---	0.	---	0.	---	9778.	11.7	1514.	24.2	3522.	8.9
73	0.	---	0.	---	0.	---	11313.	15.7	1835.	21.2	3842.	9.1
74	4.	---	0.	---	0.	---	13267.	17.3	1772.	-3.4	5091.	32.5
75	3.	-25.0	0.	---	0.	---	14981.	12.9	1962.	10.7	5832.	14.6
76	19.	533.3	0.	---	0.	---	16664.	11.2	2698.	37.5	5941.	1.9
77	696.	3563.2	0.	---	0.	---	18826.	12.9	3257.	20.8	6712.	13.0
78	2612.	275.3	0.	---	0.	---	21238.	12.9	3830.	17.5	7483.	10.9

FA	EXC03R14	%CCL	EXC03R15	%CCL	EXC03R16	%CCL	EXC04R02	%CCL	EXC04R06	%CCL	EXC04R07A	%CCL
71	3988.		247.		151.		1.		-59.		2426.	
72	4256.	6.9	256.	3.6	231.	53.0	0.	-100.0	0.	-100.0	2183.	-10.0
73	4774.	12.2	627.	144.9	235.	1.7	0.	---	0.	---	2452.	12.3
74	5531.	15.9	582.	-7.2	291.	23.8	0.	---	-522.	---	2458.	0.2
75	6270.	13.4	673.	15.6	244.	-16.2	0.	---	-727.	39.3	2801.	13.5
76	6585.	9.0	946.	40.3	196.	-19.7	361.	---	411.	-156.5	2732.	-2.5
77	7440.	13.0	958.	1.3	241.	23.0	74.	-79.5	30.	-92.7	3501.	28.1
78	8555.	12.0	973.	2.0	436.	80.9	3.	-96.2	-119.	-496.7	3743.	6.9

FA	EXC04R11	%CCL	EXC04R13	%CCL	EXC05R02	%CCL	EXC05R06	%CCL	EXC05R07A	%CCL	EXC05R11	%CCL
71	2062.		2062.		0.		0.		214.		192.	
72	2122.	2.9	2122.	2.9	15.	---	15.	---	248.	16.0	252.	31.3
73	2345.	10.5	2046.	-3.6	161.	973.3	161.	973.3	262.	10.5	349.	38.4
74	2650.	13.0	2365.	15.6	212.	31.7	212.	31.7	265.	41.1	451.	29.6
75	2915.	10.0	2601.	10.0	467.	120.3	467.	120.3	109.	-44.9	542.	20.2
76	3145.	7.9	2840.	9.2	550.	17.8	543.	16.3	22.	-28.0	567.	4.6
77	3506.	11.5	3196.	12.5	633.	14.5	601.	10.7	12.	-83.3	613.	8.1
78	3928.	12.0	3641.	14.0	652.	3.5	668.	11.1	25.	108.3	231.	19.2

FA	EBC05R13	%CCL	EBC05R15	%CCL	EBC05R02	%CCL	EBC06R06	%CCL	EBC06R07A	%CCL	EBC06R11	%CCL
71	192.		0.		1062.		1062.		3659.		3905.	
72	252.	31.3	0.	---	510.	-52.0	510.	-52.0	3147.	3.2	4249.	8.8
73	348.	38.1	0.	---	400.	-21.6	400.	-21.6	4093.	27.2	4759.	12.0
74	419.	20.4	32.	---	1156.	189.0	1156.	189.0	4335.	0.3	5499.	15.5
75	515.	22.9	27.	-15.6	1278.	10.6	1278.	10.6	4359.	0.3	6222.	13.1
76	539.	4.7	28.	3.7	3045.	138.3	3034.	137.4	4099.	-5.8	6826.	9.7
77	569.	5.6	44.	57.1	1020.	-66.5	825.	-72.8	6235.	52.1	7577.	11.0
78	677.	19.0	54.	22.7	898.	-12.0	813.	-1.5	6136.	-1.6	8425.	11.2

FA	EBC06R18	%CCL	EBC07AR02	%CCL	EBC07AR06	%CCL	EBC07AR07A	%CCL	EBC07AR11	%CCL	EBC07AR12	%CCL
71	3905.		10.		10.		1556.		832.		378.	
72	4249.	8.8	0.	-100.0	0.	-100.0	1720.	10.5	1395.	48.0	431.	14.0
73	4759.	12.0	331.	---	331.	---	2324.	35.1	1747.	33.9	576.	33.6
74	5499.	15.5	458.	38.4	458.	38.4	2896.	24.6	2303.	31.8	363.	-37.0
75	6222.	13.1	945.	106.3	945.	106.3	3009.	3.9	2918.	26.7	445.	22.6
76	6826.	9.7	2503.	164.9	2411.	155.1	2728.	-9.3	3456.	18.4	289.	17.8
77	7577.	11.0	1981.	-20.9	1855.	-23.1	4263.	56.3	3856.	11.6	1052.	18.3
78	8425.	11.2	2024.	6.5	2430.	27.4	4883.	14.5	4335.	12.4	1271.	22.7

FA	EBC07AR13	%CCL	EBC07AR15	%CCL	EBC07BR02	%CCL	EBC07BR06	%CCL	EBC07BR07A	%CCL	EBC07BR11	%CCL
71	359.		197.		0.		0.		656.		526.	
72	799.	122.6	170.	-13.7	0.	---	0.	---	1041.	54.3	503.	-4.4
73	942.	33.0	228.	34.1	0.	---	0.	---	871.	-16.3	612.	21.7
74	1743.	85.0	197.	-13.6	0.	---	0.	---	971.	11.5	692.	13.1
75	2223.	27.5	245.	24.4	0.	---	0.	---	1028.	5.9	853.	23.3
76	2043.	-8.1	523.	113.5	198.	---	201.	---	1056.	2.7	1000.	17.2
77	2294.	12.3	511.	-2.3	246.	24.2	314.	56.2	1176.	11.4	1278.	27.8
78	2687.	17.1	579.	13.3	0.	-100.0	38.	-87.9	1538.	30.8	1391.	8.8

FA	EBC07BR12	%CCL	EBC07BR15	%CCL	EBC07R02	%CCL	EBC07R04	%CCL	EBC07R05	%CCL	EBC07R06	%CCL
71	395.		6.		10.		-75.		0.		10.	
72	411.	4.1	23.	283.3	0.	-100.0	0.	-100.0	0.	---	0.	-100.0
73	499.	21.5	28.	21.7	331.	---	0.	---	0.	---	331.	---
74	554.	11.0	12.	-57.1	458.	38.4	-38.	---	0.	---	458.	38.4
75	695.	25.5	16.	33.3	945.	106.3	-15.	60.5	0.	---	945.	106.3
76	799.	15.0	20.	25.0	2702.	185.9	-92.	513.3	-87.	---	2612.	176.4
77	1068.	33.7	40.	100.0	2147.	-20.5	-83.	-9.8	23.	-126.4	2169.	-17.0
78	1180.	10.5	54.	35.0	2024.	-5.7	-68.	-18.1	415.	1704.3	2437.	12.4

FA	EBC07R07	%CCL	EBC07R10	%CCL	EBC07R07A	%CCL	EBC07R11	%CCL	EBC07R12	%CCL	EBC07R13	%CCL
71	-638.		-13.		2222.		1488.		778.		432.	
72	-684.	7.2	-17.	30.8	2761.	24.3	1817.	22.1	849.	9.1	766.	77.3
73	-908.	32.7	-21.	23.5	3195.	15.7	2373.	30.6	1085.	27.8	1017.	32.8
74	-730.	-19.6	-23.	9.5	3867.	21.0	2985.	26.6	917.	-15.5	1859.	82.8
75	-908.	24.4	-21.	-8.7	4037.	4.4	3771.	26.3	1139.	24.2	2371.	27.5
76	-1627.	79.2	-21.	0.0	3784.	-6.3	4455.	18.1	1689.	48.3	2223.	-6.2
77	-2002.	23.0	-21.	0.0	5441.	43.8	5135.	15.3	2119.	25.5	2463.	10.8
78	-2452.	22.5	-25.	19.0	6421.	18.0	5737.	11.7	2471.	16.6	2697.	9.5

FA	EBC07R14	%CCL	EBC07R15	%CCL	EBC08R03	%CCL	EBC08S06	%CCL	EBC08S07A	%CCL	EBC08S11	%CCL
71	0.		203.		-1185.		-938.		3175.		1032.	
72	0.	---	193.	-4.9	-791.	-33.2	612.	-165.2	2027.	-36.2	1110.	7.6
73	0.	---	256.	32.6	-70.	-91.2	1577.	157.7	764.	-62.3	1252.	12.8
74	0.	---	229.	-10.5	0.	-100.0	943.	-40.2	1819.	138.1	1359.	8.5
75	0.	---	269.	17.5	0.	---	38.	-96.0	1619.	-11.0	1239.	-8.8
76	0.	---	543.	101.9	-79.	---	-214.	-663.2	2619.	45.0	1417.	14.4
77	0.	---	551.	1.5	-933.	1081.0	-787.	267.8	3740.	41.9	1672.	18.0
78	0.	---	579.	5.1	-411.	-55.9	-603.	-23.4	4862.	29.3	1851.	10.7

(11)

FA	ESC08E12	%CCL	ESC09E03	%CCL	ESC09E05	%CCL	ESC09E07A	%CCL	ESC09X11	%CCL	ESC10A703	%CCL
71	441.		0.		0.		0.		0.		-8.	
72	665.	50.8	0.	---	0.	---	363.	---	0.	---	-4.	-50.0
73	750.	12.8	0.	---	0.	---	203.	-44.4	0.	---	-1.	-75.0
74	656.	14.1	0.	---	0.	---	216.	316.7	0.	---	-5.	400.0
75	823.	-3.9	-727.	---	-727.	---	823.	-3.8	0.	---	-6.	20.0
76	1009.	22.6	-65.	-88.3	-312.	-57.1	287.	-65.0	0.	---	0.	-100.0
77	1140.	13.0	-1150.	1252.9	-1014.	225.0	1010.	251.9	0.	---	-187.	---
78	1360.	19.3	-2227.	93.7	-2187.	115.7	1135.	7.5	0.	---	-657.	47.0

FA	ESC10AR05	%CCL	ESC10AR07A	%CCL	ESC10AR11	%CCL	ESC10AR12	%CCL	ESC10AR14	%CCL	ESC10E03	%CCL
71	-8.		12.		3.		1.		2.		-6285.	
72	-4.	-50.0	10.	-16.7	6.	100.0	2.	100.0	4.	100.0	-8776.	43.1
73	-1.	-75.0	15.	50.0	14.	133.3	6.	133.3	8.	133.3	-12243.	35.1
74	-5.	400.0	32.	113.3	32.	128.6	13.	128.6	18.	128.6	-9545.	-22.8
75	-6.	20.0	50.	56.3	48.	50.0	17.	50.0	27.	50.0	-7392.	-21.9
76	-1.	-83.3	41.	-18.0	59.	22.9	24.	22.9	35.	22.9	-7984.	8.2
77	-445.	******	53.	29.3	64.	8.5	24.	8.5	38.	8.5	-9569.	19.1
78	-652.	40.2	58.	9.4	80.	25.0	32.	25.0	48.	25.0	-8218.	-13.6

FA	ESC10E06	%CCL	ESC10E07A	%CCL	ESC10R15	%CCL	ESC10R16	%CCL	ESC15E02	%CCL	ESC15E03	%CCL
71	-6285.		6282.		154.		154.		0.		-6284.	
72	-8954.	42.4	9218.	46.7	230.	50.0	231.	50.0	42.	---	-9009.	43.0
73	-12214.	36.4	12364.	34.1	234.	1.3	234.	1.3	26.	-38.1	-12241.	36.0
74	-9375.	-23.2	10233.	-17.2	290.	23.9	290.	23.9	70.	169.2	-9451.	-22.8
75	-7313.	-22.0	7569.	-25.8	244.	-15.9	244.	-15.9	69.	-1.4	-7383.	-21.9
76	-8077.	10.4	8226.	8.6	196.	-19.7	196.	-19.7	53.	-23.2	-7981.	8.1
77	-9155.	13.8	9734.	18.3	240.	22.4	240.	22.4	52.	-1.9	-9956.	24.7
78	-8117.	-11.4	9320.	-4.3	436.	81.7	436.	81.7	81.	55.8	-8075.	-18.9

FA	ESC15E05	%CCL	ESC15E06	%CCL	ESC15E07A	%CCL	ESC15E09B	%CCL	ESC15E10A	%CCL	ESC15E10B	%CCL
71	0.		-6278.		6274.		4.		0.		5.	
72	0.	---	-8959.	42.3	9228.	46.6	0.	---	0.	---	0.	---
73	0.	---	-12215.	36.4	12377.	34.1	0.	---	0.	---	0.	---
74	0.	---	-9359.	-23.2	10265.	-17.1	0.	---	0.	---	0.	---
75	0.	---	-7319.	-22.0	7639.	-25.6	0.	---	0.	---	0.	---
76	-145.	---	-8078.	10.4	8267.	8.2	19.	---	0.	---	0.	---
77	272.	-288.3	-9669.	19.6	9787.	18.4	474.	2395.3	0.	---	0.	---
78	-7.	-102.6	-8777.	-9.9	9378.	-4.2	478.	41.5	-3.	---	0.	---

FA	ESC16R15	%CCL	ESC18E12	%CCL	ESC10R14	%CCL	ESC10R16	%CCL	ESC5TA501	%CCL	ESC5TAR08	%CCL
71	157.		1.		2.		154.		4592.		4592.	
72	237.	51.0	2.	100.0	4.	100.0	231.	50.0	5714.	24.4	5714.	24.4
73	240.	1.6	6.	133.3	8.	133.3	234.	1.3	7055.	23.5	7055.	23.5
74	372.	29.8	13.	128.6	19.	128.6	290.	23.9	7274.	3.1	7274.	3.1
75	272.	-9.3	19.	50.0	29.	50.0	244.	-15.9	8017.	10.2	8017.	10.2
76	255.	-12.7	24.	22.9	35.	22.9	196.	-19.7	11534.	43.9	11534.	43.9
77	381.	19.2	26.	8.5	38.	8.5	240.	22.4	19613.	70.0	19613.	70.0
78	518.	49.7	32.	25.0	48.	25.0	436.	81.7	30327.	54.6	30327.	54.6

FA	ESC11AR08	%CCL	ESC12AR10A	%CCL	ESC11AR11	%CCL	ESC11AR12	%CCL	ESC11AR14	%CCL	ESC11AR16	%CCL
71	-31.		-1381.		157.		79.		0.		79.	
72	-50.	61.3	-1248.	-11.2	331.	110.8	167.	111.4	0.	---	167.	111.4
73	-46.	-8.0	-1553.	28.7	331.	0.0	167.	0.0	0.	---	167.	0.0
74	-46.	0.0	-2107.	35.5	359.	7.2	190.	13.8	1.	---	167.	0.0
75	-47.	2.2	-2310.	13.8	541.	52.0	291.	54.7	1.	0.0	249.	49.5
76	-42.	-10.6	-2852.	19.3	593.	9.0	321.	9.2	2.	100.0	270.	8.4
77	-43.	2.4	-4215.	50.4	1412.	138.1	734.	128.7	2.	0.0	672.	150.7
78	-45.	4.7	-8560.	97.9	2225.	57.6	1139.	55.2	2.	0.0	1081.	60.9

FA	EBC11BR03	%CCL	EBC11BR06	%CCL	EBC11CR08	%CCL	EBC11CR11	%CCL	EBC11CR14	%CCL	EBC11R01	%CCL
71	0.		0.		18.		15.		15.		4592.	
72	0.	---	0.	---	21.	16.7	16.	6.7	16.	6.7	5714.	24.4
73	0.	---	0.	---	22.	4.8	16.	0.0	16.	0.0	7055.	23.5
74	0.	---	0.	---	22.	0.0	15.	-6.3	15.	-6.3	7276.	3.1
75	0.	---	0.	---	20.	-9.1	13.	-13.3	13.	-13.3	8017.	10.2
76	0.	---	0.	---	20.	0.0	12.	-7.7	12.	-7.7	11534.	43.9
77	-1233.	---	-1233.	---	20.	0.0	12.	0.0	12.	0.0	17683.	29.9
78	-7519.	509.8	-7519.	509.8	20.	0.0	14.	16.7	14.	15.7	39327.	51.5

FA	EBC11R03	%CCL	EBC11R06	%CCL	EBC11R08	%CCL	EBC11R09D	%CCL	EBC11R10A	%CCL
71	0.		4592.		18.		-164.		-1361.	
72	0.	---	5714.	24.4	21.	16.7	-253.	54.3	-1208.	-11.2
73	0.	---	7055.	23.5	22.	4.8	-273.	7.9	-1555.	28.7
74	0.	---	7276.	3.1	22.	0.0	-269.	-1.5	-2107.	35.5
75	0.	---	8017.	10.2	20.	-9.1	-194.	-27.9	-4832.	131.7
76	0.	---	11534.	43.9	20.	0.0	-1337.	589.2	-2842.	-41.2
77	-1233.	---	18380.	59.4	20.	0.0	-3426.	156.2	-4275.	50.1
78	-7519.	509.8	22818.	24.1	20.	0.0	-4335.	26.5	8559.	-277.9

FA	EBC11R10B	%CCL	EBC11R11	%CCL	EBC11R12	%CCL	EBC11R14	%CCL	EBC11R16	%CCL	EBC12R01	%CCL
71	-2112.		174.		79.		15.		79.		0.	
72	-3986.	34.1	359.	101.1	167.	111.4	16.	6.7	167.	111.4	0.	---
73	-5041.	29.4	359.	0.0	167.	0.0	16.	0.0	167.	0.0	0.	---
74	-4548.	-9.8	374.	6.9	190.	13.8	16.	0.0	167.	0.0	0.	---
75	-4888.	7.5	557.	48.9	294.	54.7	14.	-12.5	249.	49.1	0.	---
76	-6750.	38.1	605.	8.6	321.	9.2	14.	0.0	270.	8.7	0.	---
77	-8848.	31.0	1426.	135.4	733.	128.3	14.	0.0	677.	150.7	0.	---
78	-7721.	-13.2	2239.	57.2	1139.	55.4	16.	14.3	1084.	60.1	0.	---

FA	EBC12R06	%CCL	EBC12R10B	%CCL	EBC13R01	%CCL	EBC13R05	%CCL	EBC13R10B	%CCL	EBC14R06	%CCL
71	0.		0.		619.		619.		-645.		1422.	
72	0.	---	0.	---	567.	-8.4	567.	-8.4	-428.	-8.3	1122.	-3.7
73	0.	---	0.	---	690.	21.7	690.	21.7	-477.	21.8	1759.	23.7
74	0.	---	0.	---	802.	16.2	802.	16.2	-578.	16.3	1684.	-4.3
75	0.	---	0.	---	871.	8.6	871.	8.6	-627.	8.5	2291.	39.7
76	0.	---	0.	---	800.	-8.2	800.	-8.2	-576.	-8.1	2932.	33.2
77	0.	---	0.	---	817.	2.1	817.	2.1	-588.	2.1	3361.	14.7
78	0.	---	0.	---	1241.	51.9	1241.	51.9	-893.	51.7	4437.	31.9

FA	EBC14R07	%CCL	EBC14R10D	%CCL	EBC14R11	%CCL	EBC14R12	%CCL	EBC14R14	%CCL	EBC14R15	%CCL
71	411.		-60.		325.		143.		141.		41.	
72	449.	9.2	-66.	11.1	353.	8.6	159.	11.2	151.	7.1	43.	4.9
73	538.	19.8	-86.	24.5	429.	21.5	227.	42.8	165.	9.3	36.	-16.3
74	520.	-3.3	-100.	16.3	393.	-8.4	189.	-16.7	176.	6.7	28.	-22.2
75	611.	17.5	-107.	7.0	469.	19.3	233.	23.3	204.	15.9	32.	14.3
76	780.	27.7	-118.	10.3	620.	31.9	369.	58.4	224.	9.8	35.	9.4
77	907.	16.3	-144.	22.0	725.	15.4	435.	17.9	251.	12.1	39.	11.4
78	1117.	23.2	-154.	6.9	923.	27.3	574.	32.9	302.	20.3	47.	20.5

FA	EBC15R01	%CCL	EBC15R02	%CCL	EBC15R03	%CCL	EBC15R04	%CCL	EBC15R05	%CCL	EBC15R06	%CCL
71	70455.		1898.		-55552.		-337.		22.		17923.	
72	85719.	21.3	2138.	12.6	-68738.	23.7	-220.	-34.7	117.	431.8	19235.	13.9
73	105781.	23.4	2789.	30.4	-86347.	25.6	-248.	12.7	236.	161.7	22417.	16.7
74	108735.	2.8	3035.	8.9	-85945.	-0.5	-409.	65.1	-1559.	-769.2	24347.	8.6
75	104641.	-3.8	2923.	-3.7	-81492.	-5.0	-417.	-9.2	-359.	-77.0	25583.	5.1
76	123269.	17.8	8279.	183.2	-98231.	20.4	-437.	4.8	-814.	127.3	32023.	25.1
77	143922.	16.8	9894.	19.5	-110561.	12.6	-578.	32.3	2385.	-382.6	45551.	42.3
78	151410.	5.2	9883.	-0.1	-111629.	1.0	-609.	5.4	-528.	-122.9	49127.	7.8

FA	EBC15R07		EBC15R08		EBC15R09A		EBC15R09B		EBC15R10A		EBC15R10B	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	-1066.		5.		-1330.		-164.		-1410.		-2972.	
72	-972.	-8.8	-8.	-260.0	-428.	-67.8	-253.	54.3	-1363.	-3.3	-3973.	33.7
73	-1220.	25.5	-2.	-75.0	-994.	132.2	-273.	7.9	-1572.	15.3	-5126.	29.0
74	-1165.	-4.5	-2.	0.0	-202.	-79.7	-265.	-2.9	-2649.	68.5	-4649.	-9.3
75	-1591.	36.6	-6.	200.0	-360.	78.2	-190.	-28.3	-2945.	11.2	-4996.	7.5
76	-2152.	35.3	-2.	-66.7	-131.	-63.6	-1318.	593.7	-3541.	20.2	-6869.	37.5
77	-2457.	14.2	-4.	100.0	-642.	390.1	-2730.	107.1	-4762.	34.5	-9042.	31.6
78	-3289.	33.9	-4.	0.0	-354.	-44.9	-1724.	-36.8	-8800.	84.8	-7875.	-12.9

FA	EBC15R11		EBC15R12		EBC15R13		EBC15R14		EBC15R15		EBC15R16	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	9350.		1487.		3278.		4066.		288.		233.	
72	10563.	13.0	1892.	27.2	3550.	8.3	4423.	8.8	299.	3.8	399.	71.2
73	12175.	15.3	2271.	20.0	3880.	9.3	4955.	12.0	663.	121.7	405.	1.5
74	14115.	15.9	2194.	-3.4	5124.	32.1	5722.	15.5	610.	-8.0	465.	14.8
75	16106.	14.1	2534.	15.5	5879.	14.7	6488.	13.4	705.	15.6	499.	7.3
76	17983.	11.7	3422.	35.0	5981.	1.7	7122.	9.8	977.	38.6	478.	-4.2
77	21066.	17.1	4479.	30.9	6752.	12.9	7906.	11.0	993.	1.6	937.	96.0
78	24505.	16.3	5594.	24.9	7472.	10.7	8873.	12.2	1020.	2.7	1547.	65.1

FA	EBC16R01		EBC16R04		EBC16R11		EBC16R12		EBC16R14		EBC17R01	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	37576.		37576.		37576.		21516.		16925.		108231.	
72	37991.	1.1	37991.	1.1	37991.	1.1	19880.	-7.6	19124.	13.0	123710.	14.3
73	43184.	13.7	43184.	13.7	43184.	13.7	23185.	16.7	19955.	10.4	148978.	20.4
74	44480.	3.0	44480.	3.0	44480.	3.0	21877.	-5.6	22609.	13.0	153283.	2.9
75	38016.	-14.5	38016.	-14.5	38016.	-14.5	14022.	-35.9	23947.	6.0	142657.	-6.9
76	38923.	2.4	38923.	2.4	38923.	2.4	11770.	-16.1	27118.	13.2	161716.	13.4
77	39208.	0.7	39208.	0.7	39208.	0.7	9162.	-22.2	30017.	10.7	183139.	13.2
78	39482.	0.7	39482.	0.7	39482.	0.7	6288.	-31.4	33168.	10.5	190830.	4.2

FA	EBC17R02		EBC17R03		EBC17R04		EBC17R05		EBC17R06		EBC17R07	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	1898.		-55552.		-337.		22.		54519.		-1066.	
72	2138.	12.6	-68738.	23.7	-220.	-34.7	117.	431.8	57136.	4.8	-972.	-8.8
73	2788.	30.4	-86347.	25.6	-248.	12.7	236.	101.7	65531.	14.7	-1220.	25.5
74	3035.	8.9	-85165.	-1.4	-409.	65.1	-1558.	-760.2	68755.	4.9	-1163.	-4.7
75	2923.	-3.7	-81482.	-4.3	-371.	-9.2	-359.	-77.0	63617.	-7.5	-1591.	36.8
76	8279.	183.2	-98231.	20.6	-389.	4.8	-816.	127.3	70946.	11.5	-2152.	35.3
77	9894.	19.5	-110561.	12.6	-515.	32.3	2386.	-392.4	84769.	19.5	-2457.	14.2
78	9853.	-0.4	-111627.	1.0	-543.	5.4	-528.	-122.1	88621.	4.5	-3289.	33.9

FA	EBC17R08		EBC17R09A		EBC17R09B		EBC17R10A		EBC17R10B		EBC17R11	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	5.		-1330.		-164.		-1410.		-2972.		46924.	
72	-8.	-260.0	-428.	-67.8	-253.	54.3	-1363.	-3.3	-3973.	33.7	48551.	3.5
73	-2.	-75.0	-994.	132.2	-273.	7.9	-1572.	15.3	-5126.	29.0	55359.	14.0
74	-2.	0.0	-202.	-79.7	-265.	-2.9	-2649.	68.5	-4649.	-9.3	58593.	5.9
75	-6.	200.0	-360.	78.2	-190.	-28.3	-2945.	11.2	-4996.	7.5	54122.	-7.6
76	-2.	-66.7	-131.	-63.6	-1318.	593.7	-3541.	20.2	-6869.	37.5	56884.	5.1
77	-4.	100.0	-642.	390.1	-2730.	107.1	-4762.	34.5	-9042.	31.6	60274.	5.9
78	-4.	0.0	-354.	-44.9	-1724.	-36.8	-8800.	84.8	-7875.	-12.9	65227.	8.2

FA	EBC17R12		EBC17R13		EBC17R14		EBC17R15		EBC17R18		EBF8	
		%CCL		%CCL		%CCL		%CCL		%CCL		%CCL
71	22992.		3319.		19970.		288.		233.		521.	
72	21749.	-5.4	3569.	7.5	22527.	12.8	299.	3.8	399.	71.2	754.	44.7
73	25455.	17.0	3885.	8.9	24950.	10.8	663.	121.7	405.	1.5	1354.	79.6
74	24071.	-5.4	5135.	32.2	28322.	13.5	610.	-8.0	465.	14.8	3105.	129.3
75	16555.	-31.2	5923.	15.3	30437.	7.5	705.	15.6	499.	7.3	2851.	-8.2
76	15192.	-8.2	6183.	4.4	34245.	12.5	977.	38.6	478.	-4.2	3430.	20.3
77	13641.	-10.2	6925.	12.0	39965.	16.7	993.	1.6	937.	96.0	4468.	30.3
78	11882.	-12.9	7528.	10.4	45120.	12.9	1020.	2.7	1547.	65.1	4535.	1.5

FA	EXP73$	%CCL	GDP$	%CCL	GDP73$	%CCL	GNP$	%CCL	GNP73$	%CCL	IIP73$	%CCL
71	691.		3672.		5545.		3665.		5465.		69.	
72	1123.	26.1	4561.	24.3	6067.	9.4	4465.	22.2	5876.	7.9	84.	20.7
73	1354.	20.6	6753.	48.0	6753.	11.3	6588.	47.7	6588.	19.8	100.	19.3
74	1403.	3.6	10708.	58.6	7269.	7.6	10281.	56.0	6990.	6.0	111.	11.1
75	1267.	-9.7	12643.	18.1	7631.	5.0	12097.	18.5	7271.	5.4	117.	5.5
76	1425.	12.5	15467.	22.3	8156.	6.9	15035.	24.4	7750.	7.1	130.	11.1
77	1744.	22.4	18706.	20.9	8761.	7.4	18027.	19.9	8338.	7.9	148.	13.8
78	1619.	-7.2	21702.	16.5	9392.	7.2	20942.	16.2	8766.	6.8	155.	6.2

FA	IMP$	%CCL	IMP73$	%CCL	INF$	%CCL	INF73$	%CCL	M1$	%CCL	M173$	%CCL
71	611.		739.		589.		887.		3130.		4333.	
72	862.	41.0	925.	26.8	857.	47.0	1032.	17.0	3872.	23.4	5260.	7.3
73	1316.	52.6	1316.	42.2	1262.	41.0	1208.	17.1	5745.	48.3	5741.	10.2
74	2291.	74.3	1669.	26.9	1797.	40.0	1440.	19.2	9053.	57.8	6076.	5.8
75	2778.	21.1	1800.	7.8	2572.	43.1	1650.	14.6	10746.	18.6	6454.	5.8
76	3222.	16.0	1946.	8.1	3205.	24.6	1747.	6.0	13338.	24.1	6859.	7.1
77	3817.	18.5	2378.	22.2	3726.	16.3	2018.	11.9	15765.	18.7	7343.	7.0
78	4035.	5.7	2318.	-2.5	4422.	18.7	2272.	13.1	18651.	18.8	7839.	6.6

FA	PCG$	%CCL	PCP$	%CCL	PEXP$	%CCL	PGDP$	%CCL	PGNP$	%CCL	PIMP$	%CCL
71	66.		71.		49.		65.		66.		84.	
72	74.	12.2	80.	12.3	47.	12.7	75.	13.6	75.	13.2	93.	11.3
73	100.	35.5	100.	25.7	100.	49.0	100.	32.9	100.	33.9	100.	7.3
74	131.	31.2	133.	33.0	221.	121.3	147.	47.3	148.	47.8	137.	37.4
75	150.	14.4	154.	15.7	225.	1.7	166.	12.5	166.	12.8	154.	12.3
76	177.	18.2	173.	12.7	241.	6.9	190.	14.5	193.	16.1	165.	7.3
77	199.	12.3	193.	11.4	256.	6.4	214.	12.6	216.	12.0	161.	-3.0
78	219.	9.9	215.	11.4	280.	9.4	232.	8.7	235.	8.8	174.	8.4

FA	PIIP$	%CCL	188	%CCL	GPI73$	%CCL
71	87.		925240.		64.	
72	93.	24.1	1059493.	13.5	73.	14.0
73	100.	20.4	1194334.	13.7	100.	37.7
74	125.	24.8	1499410.	24.0	148.	47.8
75	156.	24.9	1832351.	22.0	157.	6.5
76	183.	17.6	2103383.	16.4	180.	14.4
77	185.	1.2	2530367.	20.3	206.	14.1
78	195.	4.9	3001680.	18.6	222.	8.1

(18)

(2) Exogenous Variables

FA	CSI	%CH	EXC01R02	%CH	EXC01R03	%CH	EXC01R05	%CH	EXC01R50	%CH
71	341.00000		0.00000		0.00000		-18.00000		0.00000	
72	414.00000	21.4	12.00000	---	0.00000	---	17.00000	-194.4	-12.00000	---
73	716.00000	72.9	3.00000	-75.0	0.00000	---	32.00000	88.2	-3.00000	-75.0
74	841.00000	17.5	1.00000	-66.7	0.00000	---	-7.00000	-121.9	-1.00000	-66.7
75	1253.70000	49.1	6.00000	500.0	0.00000	---	-3.00000	-57.1	-6.00000	500.0
76	1580.50000	26.1	1.00000	-83.3	-8.00000	---	-4.00000	33.3	-1.00000	-83.3
77	2019.40000	27.8	0.00000	-100.0	-7.00000	-12.5	-14.00000	250.0	0.00000	-100.0
78	2331.50000	15.5	0.00000	---	-30.00000	328.6	-42.00000	200.0	0.00000	---

FA	EXC01R101	%CH	EXC01R102	%CH	EXC01R12	%CH	EXC01R13	%CH	EXC01R14	%CH
71	-23.00000		0.00000		50.00000		45.00000		0.00000	
72	-126.00000	447.8	0.00000	---	51.00000	2.0	28.00000	-37.8	0.00000	---
73	-13.00000	-89.7	0.00000	---	43.00000	-15.7	37.00000	32.1	0.00000	---
74	-10.00000	-23.1	0.00000	---	43.00000	0.0	32.00000	-13.5	0.00000	---
75	-7.00000	-30.0	0.00000	---	45.00000	4.7	47.00000	46.9	0.00000	---
76	-3.00000	-57.1	0.00000	---	34.00000	-24.4	40.00000	-14.9	0.00000	---
77	-5.00000	66.7	0.00000	---	51.00000	50.0	40.00000	0.0	0.00000	---
78	-8.00000	60.0	0.00000	---	50.00000	-2.0	28.00000	-30.0	0.00000	---

FA	EXC01R16	%CH	EXC02R01	%CH	EXC02R02	%CH	EXC02R05	%CH	EXC02R071	%CH
71	0.00000		65269.00000		570.00000		69.00000		-18710.00000	
72	2.00000	---	79278.00000	21.5	162.00000	-71.6	100.00000	44.9	-20365.00000	8.8
73	3.00000	50.0	97903.00000	23.5	220.00000	35.8	264.00000	164.0	-24203.00000	18.8
74	7.00000	133.3	100548.00000	2.7	195.00000	-11.4	-1550.00000	-687.1	-24082.00000	-0.5
75	7.00000	0.0	95542.00000	-5.0	122.00000	-37.4	-356.00000	-77.0	-21713.00000	-9.8
76	12.00000	71.4	110284.00000	15.4	1609.00000	1218.9	-290.00000	-18.5	-22020.00000	1.4
77	20.00000	66.7	123270.00000	11.8	5966.00000	270.8	2415.00000	-932.8	-30387.00000	38.0
78	27.00000	35.0	119570.00000	-3.0	6221.00000	4.3	-552.00000	-122.9	-32025.00000	5.4

FA	EXC02R101	%CH	EXC02R103	%CH	EXC04R03	%CH	EXC04R04	%CH	EXC04R05	%CH
71	0.00000		0.00000		-57.00000		0.00000		0.00000	
72	0.00000	---	0.00000	---	0.00000	-100.0	0.00000	---	0.00000	---
73	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
74	-555.00000	---	0.00000	---	-522.00000	---	-2.00000	---	0.00000	---
75	-505.00000	-9.0	0.00000	---	-727.00000	39.3	-3.00000	50.0	0.00000	---
76	-644.00000	27.5	0.00000	---	0.00000	-100.0	-2.00000	-33.3	50.00000	---
77	-424.00000	-34.2	0.00000	---	0.00000	---	-2.00000	0.0	-49.00000	-198.0
78	-252.00000	-40.6	0.00000	---	0.00000	---	-1.00000	-50.0	-122.00000	149.0

FA	EXC04R10A	%CH	EXC04R10B	%CH	EXC04R12	%CH	EXC04R15	%CH	EXC05R14	%CH
71	0.00000		0.00000		0.00000		0.00000		0.00000	
72	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
73	0.00000	---	0.00000	---	0.00000	---	300.00000	---	0.00000	---
74	0.00000	---	0.00000	---	0.00000	---	285.00000	-5.0	-114.00000	---
75	0.00000	---	0.00000	---	0.00000	---	314.00000	10.2	-135.00000	18.4
76	0.00000	---	0.00000	---	0.00000	---	304.00000	-3.2	-141.00000	4.4
77	0.00000	---	0.00000	---	0.00000	---	309.00000	1.6	-154.00000	9.2
78	0.00000	---	0.00000	---	0.00000	---	285.00000	-7.8	-203.00000	31.8

FA	EXC05R05	%CH	EXC05R10A	%CH	EXC05R10B	%CH	EXC05R15	%CH	EXC06R10A	%CH
71	0.00000		0.00000		0.00000		0.00000		0.00000	
72	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
73	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
74	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
75	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
76	-6.00000	---	0.00000	---	0.00000	---	39.00000	---	0.00000	---
77	-29.00000	383.3	0.00000	---	0.00000	---	-115.00000	-750.6	0.00000	---
78	16.00000	-155.2	0.00000	---	0.00000	---	-65.00000	-56.4	0.00000	---

FA	EBC06R10B	%CHG	EBC06R12	%CHG	EBC07AR04	%CHG	EBC07AR05	%CHG	EBC07AR07	%CHG
71	0.00000		0.00000		-5.00000		0.00000		-599.00000	
72	0.00000	---	0.00000	---	0.00000	-100.0	0.00000	---	-630.00000	5.2
73	0.00000	---	0.00000	---	0.00000	---	0.00000	---	-842.00000	33.7
74	0.00000	---	0.00000	---	-1.00000	---	0.00000	---	-659.00000	-21.7
75	0.00000	---	0.00000	---	-7.00000	600.0	0.00000	---	-840.00000	27.4
76	0.00000	---	0.00000	---	-14.00000	100.0	-92.00000	---	-1661.00000	97.7
77	0.00000	---	0.00000	---	-15.00000	7.1	-46.00000	-50.0	-1913.00000	15.2
78	0.00000	---	0.00000	---	-12.00000	-20.0	377.00000	-919.6	-2366.00000	23.7

FA	EBC07AR08	%CHG	EBC07AR10A	%CHG	EBC07AR10B	%CHG	EBC07AR11	%CHG	EBC07BR04	%CHG
71	-1.00000		0.00000		0.00000		0.00000		-78.00000	
72	-1.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	-100.0
73	-1.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
74	-1.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-37.00000	---
75	-1.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-38.00000	2.7
76	-2.00000	100.0	0.00000	---	0.00000	---	0.00000	---	-78.00000	105.3
77	-5.00000	150.0	0.00000	---	0.00000	---	0.00000	---	-68.00000	-12.8
78	-7.00000	40.0	0.00000	---	0.00000	---	0.00000	---	-56.00000	-17.6

FA	EBC07BR05	%CHG	EBC07BR07	%CHG	EBC07BR08	%CHG	EBC07BR10A	%CHG	EBC07BR10B	%CHG
71	0.00000		-39.00000		-12.00000		0.00000		0.00000	
72	0.00000	---	-54.00000	38.5	-17.00000	41.7	0.00000	---	0.00000	---
73	0.00000	---	-66.00000	22.2	-20.00000	17.6	0.00000	---	0.00000	---
74	0.00000	---	-71.00000	7.6	-22.00000	10.0	0.00000	---	0.00000	---
75	0.00000	---	-66.00000	-7.0	-19.00000	-13.6	0.00000	---	0.00000	---
76	2.00000	---	-65.00000	-1.5	-19.00000	0.0	0.00000	---	0.00000	---
77	65.00000	3150.0	-59.00000	-9.2	-16.00000	-15.8	0.00000	---	0.00000	---
78	38.00000	-41.5	-49.00000	-16.9	-18.00000	12.5	0.00000	---	0.00000	---

FA	EBC07BR13	%CHG	EBC07BR14	%CHG	EBC07R10A	%CHG	EBC07R10B	%CHG	EBC08R02	%CHG
71	124.00000		0.00000		0.00000		0.00000		255.00000	
72	62.00000	-50.0	0.00000	---	0.00000	---	0.00000	---	1398.00000	448.2
73	75.00000	21.0	0.00000	---	0.00000	---	0.00000	---	1647.00000	17.8
74	116.00000	54.7	0.00000	---	0.00000	---	0.00000	---	943.00000	-42.7
75	143.00000	23.3	0.00000	---	0.00000	---	0.00000	---	36.00000	-96.2
76	180.00000	25.9	0.00000	---	0.00000	---	0.00000	---	0.00000	-100.0
77	170.00000	-5.6	0.00000	---	0.00000	---	0.00000	---	0.00000	---
78	167.00000	-1.8	0.00000	---	0.00000	---	0.00000	---	0.00000	---

FA	EBC08R04	%CHG	EBC08R05	%CHG	EBC08R07	%CHG	EBC08R08	%CHG	EBC08R10A	%CHG
71	-262.00000		0.00000		-154.00000		0.00000		0.00000	
72	-220.00000	-16.0	0.00000	---	-102.00000	-33.8	0.00000	---	0.00000	---
73	-248.00000	12.7	0.00000	---	-115.00000	12.7	0.00000	---	0.00000	---
74	-305.00000	23.0	0.00000	---	-95.00000	-17.4	0.00000	---	0.00000	---
75	-234.00000	-23.3	0.00000	---	-346.00000	264.2	0.00000	---	0.00000	---
76	-202.00000	-13.7	-134.00000	---	-433.00000	25.1	0.00000	---	0.00000	---
77	-338.00000	67.3	147.00000	-209.7	-469.00000	8.3	0.00000	---	0.00000	---
78	-337.00000	-0.3	-191.00000	-229.9	-633.00000	35.0	0.00000	---	0.00000	---

FA	EBC08R10B	%CHG	EBC08R13	%CHG	EBC09R14	%CHG	EBC09R15	%CHG	EBC09R02	%CHG
71	0.00000		547.00000		0.00000		44.00000		0.00000	
72	0.00000	---	382.00000	-30.2	0.00000	---	63.00000	43.2	0.00000	---
73	0.00000	---	431.00000	12.8	0.00000	---	71.00000	12.7	0.00000	---
74	0.00000	---	448.00000	3.9	0.00000	---	55.00000	-22.5	0.00000	---
75	0.00000	---	345.00000	-23.0	0.00000	---	72.00000	30.9	0.00000	---
76	0.00000	---	339.00000	-1.7	0.00000	---	68.00000	-5.6	0.00000	---
77	0.00000	---	482.00000	42.2	0.00000	---	50.00000	-26.5	0.00000	---
78	0.00000	---	436.00000	-9.5	0.00000	---	54.00000	8.0	0.00000	---

(20)

FA	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH
71	0.00000		0.00000		0.00000		0.00000		0.00000	
72	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
73	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
74	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
75	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
76	-227.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
77	136.00000	-159.9	220.00000	---	0.00000	---	0.00000	---	0.00000	---
78	41.00000	-70.6	1735.00000	789.9	0.00000	---	0.00000	---	0.00000	---

FA	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH
71	0.00000		0.00000		0.00000		0.00000		0.00000	
72	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
73	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
74	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
75	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
76	0.00000	---	0.00000	---	-1.00000	---	17.00000	---	0.00000	---
77	0.00000	---	11.00000	---	0.00000	-100.0	476.00000	2705.3	0.00000	---
78	0.00000	---	4.00000	-63.6	0.00000	---	674.00000	41.6	0.00000	---

FA	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH
71	0.00000		0.00000		0.00000		0.00000		0.00000	
72	0.00000	---	42.00000	---	0.00000	---	0.00000	---	0.00000	---
73	0.00000	---	26.00000	-38.1	0.00000	---	0.00000	---	0.00000	---
74	0.00000	---	70.00000	169.2	0.00000	---	0.00000	---	0.00000	---
75	0.00000	---	69.00000	-1.4	0.00000	---	0.00000	---	0.00000	---
76	0.00000	---	53.00000	-23.2	-145.00000	---	0.00000	---	0.00000	---
77	0.00000	---	41.00000	-22.6	272.00000	-287.6	0.00000	---	0.00000	---
78	0.00000	---	77.00000	87.8	-7.00000	-102.6	0.00000	---	0.00000	---

FA	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH
71	-164.00000		-2727.00000		0.00000		0.00000		0.00000	
72	-253.00000	54.3	-3651.00000	34.1	0.00000	---	0.00000	---	0.00000	---
73	-273.00000	7.9	-5035.00000	27.1	0.00000	---	0.00000	---	0.00000	---
74	-269.00000	-1.5	-4582.00000	-9.0	0.00000	---	0.00000	---	0.00000	---
75	-194.00000	-27.9	-4282.00000	7.5	0.00000	---	0.00000	---	0.00000	---
76	-1337.00000	589.2	-6742.00000	38.1	0.00000	---	0.00000	---	0.00000	---
77	-5015.00000	275.1	-8891.00000	31.9	1537.00000	---	0.00000	---	0.00000	---
78	-11883.00000	137.0	-7714.00000	-13.2	7553.00000	375.3	0.00000	---	-34.00000	---

FA	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH	[illegible]	%CH
71	0.00000		-173.00000		0.00000		-3.00000		0.00000	
72	0.00000	---	-159.00000	-8.1	0.00000	---	-5.00000	66.7	0.00000	---
73	0.00000	---	-193.00000	21.4	0.00000	---	-6.00000	20.0	0.00000	---
74	0.00000	---	-225.00000	16.6	0.00000	---	-6.00000	0.0	0.00000	---
75	0.00000	---	-244.00000	8.4	0.00000	---	-6.00000	0.0	0.00000	---
76	0.00000	---	-224.00000	-8.2	0.00000	---	-8.00000	33.3	0.00000	---
77	0.00000	---	-229.00000	2.2	0.00000	---	-7.00000	-12.5	0.00000	---
78	0.00000	---	-349.00000	52.4	0.00000	---	-7.00000	0.0	0.00000	---

FA	[illegible]	%CH
71	0.00000	
72	0.00000	---
73	0.00000	---
74	0.00000	---
75	0.00000	---
76	0.00000	---
77	0.00000	---
78	0.00000	---

FA	ESC96R10A	%CCL	ESC16R10B	%CCL	EBC15R13	%CCL	ELC05R15	%CCL	ELC07AR15	%CCL
71	0.00000		0.00000		41.00000		0.00000			
72	0.00000	---	0.00000	---	19.00000	-53.7	0.00000	---	-1.44751	
73	0.00000	---	0.00000	---	5.00000	-73.7	0.00000	---	1.23382	-174.0
74	0.00000	---	0.00000	---	11.00000	120.0	0.00000	---	1.29891	5.2
75	0.00000	---	0.00000	---	41.00000	359.6	0.00000	---	0.80359	-38.1
76	0.00000	---	0.00000	---	36.00000	-12.2	0.00000	---	15.47689	1827.1
77	0.00000	---	0.00000	---	36.00000	0.0	0.00000	---	-0.17659	-101.1
78	0.00000	---	0.00000	---	36.00000	0.0	0.00000	---	2.62417	******

FA	ELC07BR15	%CCL	ELC10BE12	%CCL	ELC15BR15	%CCL	ELC11BP12	%CCL	ELC11AR14	%CCL
71									0.00000	
72	31.47222		10.61197		5.33593		11.92081		0.00000	---
73	0.78617	-97.7	11.72698	11.1	0.88493	-97.8	0.00000	-100.0	0.00000	---
74	5.45524	593.9	16.84836	42.8	3.03459	2629.8	1.89374	---	0.00000	---
75	1.07854	-79.9	10.84561	-35.3	-3.18893	-204.7	10.79727	557.6	0.00000	---
76	3.41259	210.7	3.32774	-16.9	-2.05669	-10.4	1.30276	-87.4	0.00000	---
77	7.47866	124.7	1.14387	-65.7	3.02796	-236.0	17.25816	1117.7	0.00000	---
78	4.98195	-10.0	3.46978	203.6	11.33526	274.4	7.65853	-55.6	0.00000	---

FA	ELC11AB16	%CCL	ELC11CR14	%CCL	ELC14E15	%CCL	ELC16P12	%CCL	FA393	%CCL
71									12.56000	
72	11.02081		0.95354		0.59359		-0.92876		14.00000	12.0
73	0.00000	-100.0	0.00000	-100.0	-0.58871	-199.2	0.60376	-165.0	16.66000	18.3
74	0.00000	---	-0.45188	---	2.12149	-460.4	0.53658	-19.0	17.00000	10.8
75	9.74000	---	-3.22745	614.5	0.67889	-77.8	-1.18331	-357.7	22.66000	15.0
76	1.20076	-86.8	-1.23058	-61.8	1.22952	171.0	-2.19257	85.3	25.00000	13.4
77	20.33218	1478.4	0.00000	-100.0	0.87685	-31.5	-1.69767	-22.5	25.00000	0.0
78	0.34435	-59.0	2.77685	---	1.84518	381.4	-6.18535	263.9	25.00000	0.0

FA	FASEGPE73	%CCL	FC901LS	%CCL	FETECPA	%CCL	FKERS	%CCL	FGFS	%CCL
71	66.31058		2.17000		325414.00000		10.00000		119.23209	
72	70.50280	4.2	2.47000	12.8	395571.00000	21.5	10.05000	0.5	120.11730	0.8
73	100.00000	41.8	3.27000	32.4	485558.00000	23.5	11.56000	15.0	123.11550	2.5
74	124.70010	24.8	11.56000	251.1	501851.00000	2.7	13.00000	13.0	129.48350	4.8
75	125.55450	0.6	11.55000	0.0	474887.00000	-5.0	16.00000	23.1	132.11850	2.3
76	146.25000	16.5	12.38000	6.9	550387.00000	15.8	18.00000	12.5	135.17500	2.3
77	174.40130	19.2	12.39620	0.1	615109.00000	11.8	18.00000	0.0	138.31270	2.3
78	187.45550	7.5	12.74000	2.5	591800.00000	-3.6	18.00000	0.0	141.57793	2.3

FA	FFCTRA	%CCL	FSE75A	%CCL	VIA75S	%CCL	TC03R27	%CCL	TC05R27	%CCL
71	33.33333		47.00000		444.26000		0.12766		0.61154	
72	36.66667	10.0	54.00000	10.2	220.74974	0.5	0.10749	-17.4	0.01217	5.1
73	42.00000	14.5	67.00000	24.1	824.74923	14.4	0.10172	-5.4	0.45835	-31.4
74	50.33333	19.8	92.00000	37.3	853.91384	3.5	0.10245	0.7	0.61123	41.8
75	62.00000	23.2	100.00000	8.7	814.43833	-4.6	0.12758	25.9	0.62451	-41.1
76	76.50667	23.7	102.00000	2.0	915.44351	12.4	0.12407	-3.8	0.00327	-29.0
77	76.66667	0.0	111.00000	8.8	961.18182	5.0	0.11521	-7.1	0.00439	-87.9
78	76.66667	0.0	123.00000	10.8	1037.26230	7.7	0.11653	1.4	0.06978	97.7

FA	TC06R19	%CCL	TC07AR07	%CCL	TC07R57	%CCL	TC08R67	%CCL	TC09R57	%CCL
71	0.16381		0.08316		0.03560		0.16970		0.69599	
72	0.15438	-5.3	0.08438	1.5	0.05167	43.5	0.05744	-61.1	0.01781	---
73	0.16539	7.1	0.09602	13.8	0.03599	-29.5	0.03157	-48.3	0.00833	-52.9
74	0.17597	0.0	0.12023	25.2	0.04031	12.0	0.07552	139.2	0.03512	319.6
75	0.20034	11.3	0.13858	15.3	0.04734	17.4	0.07392	-2.1	0.03777	7.5
76	0.18615	-7.1	0.12389	-10.6	0.04796	1.3	0.12038	62.7	0.01353	-65.5
77	0.20519	10.2	0.14025	13.2	0.03870	-19.3	0.12324	2.4	0.03324	155.9
78	0.19119	-6.8	0.15287	8.7	0.04882	26.1	0.15102	22.7	0.03458	3.9

(22)

FY	TC10AR07	%CCL	TC103R07	%CCL	ZC11AS10A	%CCL	ZC14R26	%CCL	ZC14R10	%CCL
71	0.00066		0.33576		-0.29813		0.27027		0.14579	
72	0.00047	-23.5	0.45220	34.7	-0.21141	-29.1	0.31575	13.5	0.15145	3.7
73	0.00052	26.3	0.51005	13.0	-0.22698	6.9	0.30586	-3.1	0.15965	5.5
74	0.00133	114.4	0.42407	-16.9	-0.28958	28.1	0.30879	1.0	0.19231	20.3
75	0.00230	73.3	0.35394	-16.7	-0.27111	3.3	0.27769	-10.1	0.17512	-8.9
76	0.00186	-19.6	0.37357	5.5	-0.24314	-17.0	0.26693	-4.2	0.15123	-13.6
77	0.00178	-6.3	0.32033	-14.3	-0.21859	-10.7	0.26942	1.3	0.15977	6.9
78	0.00181	3.8	0.29102	-9.2	-0.26928	20.0	0.25335	-6.0	0.13787	-13.2

3-2. Forecast Values (1979–1990)

(1) Endogenous Variables

FA	CG73I	%CCL	CPA	%CCL	CPI73A	%CCL	CF73I	%CCL	EXC01R01	%CCL	EXC01R06	%CCL
78	1065.		14535.		241.		6755.		258.		186.	
79	1291.	21.2	17728.	22.0	284.	17.9	7200.	6.6	545.	111.4	516.	177.4
80	1425.	10.4	21070.	18.9	320.	12.7	7652.	6.3	718.	31.8	688.	33.3
81	1582.	11.0	24871.	18.0	359.	12.0	8117.	6.1	1023.	42.5	973.	41.4
82	1763.	11.4	29245.	17.6	400.	11.6	8605.	6.0	1439.	40.7	1397.	41.9
83	1969.	11.7	34325.	17.4	445.	11.3	9124.	6.0	1861.	29.5	1834.	39.1
84	2143.	8.8	39975.	16.8	492.	10.5	9685.	6.1	849.	-54.4	839.	-54.3
85	2344.	9.4	46503.	16.0	540.	9.9	10264.	6.0	1302.	49.9	1272.	51.7
86	2569.	9.6	53825.	15.7	592.	9.6	10873.	5.9	1759.	35.1	1720.	35.9
87	2821.	9.8	62232.	15.6	648.	9.5	11521.	6.0	2249.	27.8	2219.	28.3
88	3099.	9.9	71934.	15.6	709.	9.3	12213.	6.0	2779.	23.6	2749.	23.9
89	3349.	7.8	82756.	15.0	771.	8.7	12955.	6.1	3324.	19.6	3278.	19.8
90	3611.	8.1	94788.	14.5	835.	8.3	13729.	6.0	3898.	17.3	3848.	17.4

FA	EXC01R07	%CCL	EXC01R11	%CCL	EXC02R03	%CCL	EXC02R04	%CCL	EXC03R02	%CCL	EXC03R03	%CCL
78	-76.		105.		-92569.		32692.		3659.		-11513.	
79	-275.	261.9	233.	121.9	-95902.	3.6	33522.	2.5	7875.	115.2	-15313.	33.0
80	-382.	38.8	298.	27.9	-90902.	-5.2	33922.	1.2	9976.	26.7	-15378.	0.4
81	-637.	66.8	348.	16.8	-95902.	5.5	34322.	1.2	12442.	24.5	-15422.	0.2
82	-942.	47.9	459.	31.9	-98452.	2.9	37572.	9.5	13585.	9.8	-16713.	8.4
83	-1321.	40.2	505.	10.0	-99361.	0.7	44892.	19.5	12937.	-4.9	-16921.	1.3
84	-344.	-74.0	487.	-3.6	-96885.	-2.5	48542.	8.1	14225.	9.4	-17625.	4.1
85	-777.	126.2	487.	0.0	-98088.	1.2	48542.	0.0	17469.	22.8	-17378.	-1.4
86	-1234.	58.8	487.	0.0	-91595.	-6.6	55852.	15.1	17271.	-1.1	-20697.	19.0
87	-1724.	39.7	487.	0.0	-92398.	0.9	55852.	0.0	20948.	21.3	-20402.	-1.4
88	-2254.	30.8	487.	0.0	-93196.	0.9	55852.	0.0	24879.	18.8	-20096.	-1.5
89	-2799.	24.2	487.	0.0	-93996.	0.9	55852.	0.0	28941.	16.3	-19784.	-1.5
90	-3373.	20.5	487.	0.0	-94598.	0.6	55852.	0.0	33251.	14.9	-19456.	-1.7

FA	EXC03R04	%CCL	EXC03R05	%CCL	EXC03R06	%CCL	EXC03R07	%CCL	EXC03R08	%CCL	EXC03R09A	%CCL
78	-639.		66.		-7703.		-3490.		-25.		31871.	
79	-659.	3.2	0.	-100.0	-8988.	3.9	-3295.	6.7	-45.	80.0	32847.	3.7
80	-698.	6.2	0.	---	-6072.	-24.7	-3524.	6.9	-45.	0.0	33242.	1.2
81	-738.	5.8	0.	---	-3710.	-39.1	-3761.	6.7	-45.	0.0	33632.	1.2
82	-780.	6.0	0.	---	-3828.	3.2	-4018.	6.8	-45.	0.0	36846.	9.5
83	-835.	7.1	0.	---	-4262.	11.3	-4215.	4.9	-45.	0.0	44069.	19.6
84	-880.	5.4	0.	---	-3779.	-11.3	-5263.	24.9	-45.	0.0	47677.	8.2
85	-925.	5.1	0.	---	-334.	-91.2	-5487.	3.9	-45.	0.0	47677.	0.0
86	-975.	5.4	0.	---	-3098.	1883.9	-5684.	4.0	-45.	0.0	54874.	15.1
87	-1030.	5.6	0.	---	44.	-180.0	-5914.	4.0	-45.	0.0	54874.	0.0
88	-1090.	5.8	0.	---	4193.	******	-6157.	4.1	-45.	0.0	54874.	0.0
89	-1155.	6.0	0.	---	6589.	102.7	-6416.	4.2	-45.	0.0	54874.	0.0
90	-1230.	6.5	0.	---	10159.	53.7	-6689.	4.3	-45.	0.0	54874.	0.0

FA	EXC03R09B	%CCL	EXC03R10A	%CCL	EXC03R10B	%CCL	EXC03R11	%CCL	EXC03R12	%CCL	EXC03R13	%CCL
78	2612.		0.		0.		21238.		3830.		7443.	
79	2500.	-4.3	0.	---	0.	---	23918.	12.6	4178.	9.1	8598.	15.6
80	2650.	6.0	0.	---	0.	---	26231.	9.7	4569.	9.3	9398.	9.2
81	2750.	3.8	0.	---	0.	---	28871.	10.1	5159.	12.9	10247.	9.0
82	2750.	0.0	0.	---	0.	---	31705.	9.8	5809.	12.6	11163.	8.9
83	2750.	0.0	0.	---	0.	---	38218.	20.8	6445.	10.9	12154.	8.9
84	2750.	0.0	0.	---	0.	---	41310.	7.9	7065.	9.6	13192.	8.5
85	2750.	0.0	0.	---	0.	---	44509.	7.8	7736.	9.5	14298.	8.4
86	2750.	0.0	0.	---	0.	---	48024.	7.7	8456.	9.3	15482.	8.3
87	2750.	0.0	0.	---	0.	---	51701.	7.7	9239.	9.3	16753.	8.2
88	2750.	0.0	0.	---	0.	---	55634.	7.6	10092.	9.2	18117.	8.1
89	2750.	0.0	0.	---	0.	---	59683.	7.3	10944.	8.4	19543.	7.9
90	2750.	0.0	0.	---	0.	---	63977.	7.2	11858.	8.3	21057.	7.7

FA	EBC03R14	%CCL	EBC03R15	%CCL	EBC03R16	%CCL	EBC04R02	%CCL	EBC04R06	%CCL	EBC04R09A	%CCL
78	8555.		973.		436.		3.		-119.		3743.	
79	9477.	10.8	1190.	22.3	465.	6.6	423.	******	423.	-455.5	3959.	5.8
80	10490.	10.7	1280.	7.6	495.	6.5	871.	105.9	871.	105.9	4007.	1.2
81	11552.	10.1	1385.	8.2	528.	6.6	1369.	57.2	1369.	57.2	4054.	1.2
82	12661.	9.6	1506.	8.7	563.	6.6	1579.	15.3	1579.	15.3	4441.	9.5
83	13830.	9.2	1643.	9.1	4220.	650.2	1363.	-13.7	1363.	-13.7	5312.	19.6
84	15065.	8.9	1759.	7.1	4258.	0.9	1633.	19.8	1633.	19.8	5747.	8.2
85	16350.	8.6	1893.	7.6	4299.	1.0	2392.	46.5	2392.	46.5	5747.	0.0
86	17700.	8.2	2041.	7.9	4342.	1.0	2339.	-2.2	2339.	-2.2	6616.	15.1
87	19110.	8.0	2211.	8.2	4389.	1.1	3217.	37.6	3217.	37.6	6616.	0.0
88	20580.	7.7	2396.	8.4	4439.	1.1	4162.	29.4	4162.	29.4	6616.	0.0
89	22149.	7.6	2557.	6.7	4490.	1.1	5169.	24.2	5169.	24.2	6616.	0.0
90	23781.	7.4	2739.	7.1	4541.	1.1	6241.	20.7	6241.	20.7	6616.	0.0

FA	EBC04R11	%CCL	EBC04R13	%CCL	EBC05R02	%CCL	EBC05R06	%CCL	EBC05R07A	%CCL	EBC05R11	%CCL
78	3936.		3646.		652.		669.		25.		731.	
79	4393.	11.6	4083.	12.0	1011.	55.1	776.	16.0	50.	99.6	826.	13.0
80	4878.	11.0	4578.	12.1	1134.	12.2	864.	11.3	51.	1.2	915.	10.7
81	5423.	11.2	5123.	11.9	1269.	11.9	959.	11.0	51.	1.2	1010.	10.4
82	6021.	11.0	5721.	11.7	1417.	11.7	1057.	10.2	56.	9.5	1113.	10.2
83	6674.	10.9	6378.	11.4	1569.	10.7	1159.	9.6	67.	19.6	1226.	10.1
84	7379.	10.6	7079.	11.0	1720.	9.6	1265.	9.1	72.	8.2	1337.	9.1
85	8139.	10.3	7838.	10.7	1884.	9.5	1384.	9.4	72.	0.0	1455.	8.9
86	8955.	10.0	8655.	10.4	2051.	8.9	1501.	8.5	83.	15.1	1585.	8.9
87	9833.	9.8	9533.	10.1	2245.	9.4	1609.	7.2	83.	0.0	1723.	8.7
88	10770.	9.5	10478.	9.9	2455.	9.3	1789.	11.1	83.	0.0	1873.	8.7
89	11765.	9.2	11485.	9.6	2669.	8.7	1939.	8.3	83.	0.0	2022.	8.0
90	12850.	9.1	12555.	9.3	2883.	8.0	2098.	8.2	83.	0.0	2181.	7.9

FA	EBC05R13	%CCL	EBC05R15	%CCL	EBC06R02	%CCL	EBC06R06	%CCL	EBC06R07A	%CCL	EBC06R11	%CCL
78	677.		54.		878.		813.		6136.		8475.	
79	761.	12.3	65.	21.2	2969.	238.7	2969.	265.2	6454.	5.2	9424.	11.2
80	842.	10.6	72.	10.8	3898.	31.2	3898.	31.2	6532.	1.2	10428.	10.7
81	930.	10.4	80.	11.0	4873.	25.0	4873.	25.0	6610.	1.2	11483.	10.1
82	1024.	10.1	89.	11.4	5347.	9.7	5347.	9.7	7240.	9.5	12588.	9.6
83	1126.	10.0	100.	11.7	5089.	-4.8	5089.	-4.8	8659.	19.6	13747.	9.2
84	1228.	9.1	109.	8.8	5599.	10.0	5599.	10.0	9368.	8.2	14968.	8.9
85	1338.	8.9	119.	9.4	6879.	22.8	6879.	22.8	9368.	0.0	16247.	8.5
86	1455.	8.7	130.	9.6	6797.	-1.2	6797.	-1.2	10786.	15.1	17583.	8.2
87	1580.	8.6	143.	9.8	8195.	20.6	8195.	20.6	10786.	0.0	18992.	8.0
88	1716.	8.6	157.	9.9	9663.	17.9	9663.	17.9	10786.	0.0	20459.	7.7
89	1853.	8.0	169.	7.8	11210.	16.0	11210.	16.0	10786.	0.0	21996.	7.6
90	1990.	7.4	183.	8.1	12828.	14.4	12828.	14.4	10786.	0.0	23615.	7.4

FA	EBC06R14	%CCL	EBC07AR02	%CCL	EBC07AS08	%CCL	EBC07AR09A	%CCL	EBC07AR11	%CCL	EBC07AR12	%CCL
78	8475.		2024.		2400.		4583.		4334.		1291.	
79	9424.	11.2	3339.	65.0	3324.	38.5	4340.	-5.3	5374.	24.0	1540.	19.3
80	10428.	10.7	3890.	16.5	3873.	16.5	4392.	1.2	5828.	8.4	1704.	10.6
81	11483.	10.1	4590.	18.0	4574.	18.1	4445.	1.2	6423.	10.2	1997.	17.2
82	12588.	9.6	4952.	7.9	4937.	7.9	4867.	9.5	7065.	10.0	2317.	16.0
83	13747.	9.2	4764.	-3.8	4749.	-3.8	5821.	19.6	7715.	9.2	2616.	12.9
84	14968.	8.9	4964.	4.2	4948.	4.2	6298.	8.2	8323.	7.9	2903.	10.9
85	16247.	8.5	5808.	17.0	5793.	17.1	6298.	0.0	8977.	7.9	3210.	10.6
86	17583.	8.2	5710.	-1.7	5693.	-1.7	7248.	15.1	9677.	7.8	3537.	10.2
87	18992.	8.0	6675.	16.9	6689.	17.5	7248.	0.0	10432.	7.8	3890.	10.0
88	20459.	7.7	7715.	15.6	7730.	15.6	7248.	0.0	11250.	7.8	4272.	9.8
89	21996.	7.6	8743.	13.3	8758.	13.3	7248.	0.0	12039.	7.0	4687.	9.7
90	23615.	7.4	9833.	12.5	9865.	12.6	7248.	0.0	12883.	7.0	5049.	7.7

FA	EBC07AR13	%CCL	EBC07AR15	%CCL	EBC07BR02	%CCL	EBC07BR06	%CCL	EBC07BR09A	%CCL	EBC07BR11	%CCL
78	2697.		579.		0.		38.		1538.		1431.	
79	3135.	16.7	702.	21.2	51.	---	-9.	-123.1	1497.	-2.7	1419.	0.3
80	3348.	6.8	775.	10.4	125.	144.9	49.	-288.6	1515.	1.2	1507.	6.1
81	3564.	6.5	869.	11.0	261.	108.1	194.	294.4	1533.	1.2	1660.	10.2
82	3788.	6.3	959.	11.4	288.	10.5	223.	14.0	1679.	9.5	1834.	10.5
83	4021.	6.2	1071.	11.7	133.	-53.9	43.	-71.0	2009.	19.6	2003.	9.2
84	4255.	5.7	1165.	8.8	133.	-0.6	43.	-0.7	2173.	8.2	2167.	8.2
85	4493.	5.6	1274.	9.4	315.	137.0	245.	287.4	2173.	0.0	2349.	8.4
86	4743.	5.6	1397.	9.6	185.	-41.2	115.	-53.0	2502.	15.1	2549.	8.5
87	5007.	5.6	1533.	9.8	406.	119.4	336.	191.9	2502.	0.0	2769.	8.7
88	5293.	5.7	1685.	9.9	653.	60.6	583.	73.2	2502.	0.0	3018.	9.0
89	5575.	5.3	1816.	7.8	899.	37.8	839.	42.3	2502.	0.0	3263.	8.2
90	5871.	5.3	1983.	9.1	1170.	30.0	1100.	32.6	2502.	0.0	3533.	8.3

FA	EBC07BR12	%CCL	EBC07BR15	%CCL	EBC07E02	%CCL	EBC07R04	%CCL	EBC07R05	%CCL	EBC07R06	%CCL
78	1180.		54.		2024.		-69.		415.		2439.	
79	1174.	-0.5	65.	21.2	3390.	67.5	-75.	10.3	0.	-100.0	3315.	35.9
80	1254.	6.8	72.	10.4	4014.	18.4	-80.	6.7	0.	---	3934.	18.7
81	1400.	11.6	80.	11.0	4850.	20.8	-80.	0.0	0.	---	4770.	21.3
82	1564.	11.6	89.	11.4	5249.	8.0	-80.	0.0	0.	---	5169.	8.2
83	1723.	10.1	100.	11.7	4897.	-6.5	-85.	6.3	0.	---	4812.	-6.7
84	1878.	9.0	109.	8.8	5192.	6.0	-85.	0.0	0.	---	5107.	6.1
85	2050.	9.2	119.	9.4	6233.	20.0	-85.	0.0	0.	---	6148.	20.4
86	2238.	9.2	130.	9.6	6003.	-3.7	-85.	0.0	0.	---	5919.	-3.7
87	2446.	9.3	143.	9.8	7210.	20.1	-85.	0.0	0.	---	7125.	20.4
88	2679.	9.5	157.	9.9	8519.	18.1	-85.	0.0	0.	---	8433.	18.4
89	2913.	8.8	169.	7.8	9812.	15.2	-85.	0.0	0.	---	9727.	15.3
90	3170.	8.8	183.	8.1	11260.	14.1	-85.	0.0	0.	---	11115.	14.3

FA	EBC07R07	%CCL	EBC07R08	%CCL	EBC07R09A	%CCL	EBC07R11	%CCL	EBC07R12	%CCL	EBC07R13	%CCL
78	-2452.		-25.		6421.		5737.		2471.		2687.	
79	-2596.	5.9	-45.	80.0	6122.	-4.7	6795.	18.4	2713.	9.8	3315.	23.4
80	-2749.	5.9	-45.	0.0	6195.	1.2	7335.	7.9	2960.	9.1	3528.	6.4
81	-2911.	5.9	-45.	0.0	6249.	0.2	8083.	10.2	3358.	14.0	3748.	6.1
82	-3083.	5.9	-45.	0.0	6867.	9.5	8899.	10.1	3883.	14.3	3968.	6.0
83	-3265.	5.9	-45.	0.0	8213.	19.6	9715.	9.2	4340.	11.8	4204.	5.9
84	-3459.	5.9	-45.	0.0	8885.	8.2	10490.	8.0	4761.	10.2	4435.	5.5
85	-3652.	5.9	-45.	0.0	8885.	0.0	11326.	8.0	5269.	10.0	4673.	5.4
86	-3879.	5.9	-45.	0.0	10230.	15.1	12225.	7.9	5775.	9.8	4923.	5.4
87	-4109.	5.9	-45.	0.0	10230.	0.0	13202.	8.0	6336.	9.7	5189.	5.4
88	-4352.	5.9	-45.	0.0	10230.	0.0	14266.	8.1	6951.	9.7	5473.	5.5
89	-4611.	5.9	-45.	0.0	10230.	0.0	15302.	7.3	7562.	8.8	5755.	5.2
90	-4884.	5.9	-45.	0.0	10230.	0.0	16416.	7.3	8219.	8.7	6051.	5.1

FA	EBC07R14	%CCL	EBC07R15	%CCL	EBC08R03	%CCL	EBC08R06	%CCL	EBC08R09A	%CCL	EBC08R11	%CCL
78	0.		579.		-111.		-693.		4842.		1651.	
79	0.	---	767.	32.5	-1415.	244.3	-1755.	191.0	4392.	-9.7	1937.	4.6
80	0.	---	847.	10.4	-1249.	-11.7	-1589.	-9.4	4446.	1.2	2089.	7.4
81	0.	---	940.	11.0	-1074.	-14.0	-1414.	-11.0	4492.	1.2	2233.	7.3
82	0.	---	1048.	11.4	-1254.	16.7	-1594.	12.7	4926.	9.5	2397.	7.4
83	0.	---	1171.	11.7	-2026.	61.6	-2366.	48.5	5892.	19.6	2575.	7.4
84	0.	---	1274.	8.8	-1475.	-27.2	-1815.	-23.3	6374.	8.2	2754.	7.0
85	0.	---	1393.	9.4	-1284.	-13.0	-1624.	-10.5	6374.	0.0	2945.	6.9
86	0.	---	1527.	9.6	-2044.	59.2	-2384.	46.8	7339.	15.1	3150.	6.9
87	0.	---	1676.	9.8	-1824.	-10.8	-2164.	-9.2	7339.	0.0	3370.	7.0
88	0.	---	1842.	9.9	-1588.	-13.0	-1928.	-10.9	7339.	0.0	3607.	7.0
89	0.	---	1965.	7.8	-1348.	-15.1	-1688.	-12.4	7339.	0.0	3846.	6.6
90	0.	---	2148.	8.1	-1098.	-18.9	-1438.	-15.8	7339.	0.0	4169.	6.6

FA	EDC08R12	ZRCL	EDC09R03	ZRCL	EDC09R06	ZRCL	EDC09R07A	ZRCL	EDC09R11	ZRCL	EDC10AR03	ZRCL
78	1359.		-2227.		-2187.		1188.		0.		-657.	
79	1429.	5.1	-2878.	29.1	-2878.	32.5	898.	-18.8	0.	---	-475.	-27.7
80	1569.	9.8	-2909.	0.4	-2909.	0.4	909.	1.2	0.	---	-614.	29.4
81	1719.	9.5	-2920.	0.4	-2920.	0.4	920.	1.2	0.	---	-703.	14.5
82	1877.	9.3	-3008.	3.0	-3008.	3.0	1008.	9.5	0.	---	-697.	-1.0
83	2053.	9.3	-85.	-97.2	415.	113.8	1205.	19.6	3620.	---	-696.	-0.1
84	2228.	8.5	-184.	115.9	316.	-23.8	1304.	8.2	3620.	0.0	-688.	-1.1
85	2414.	8.4	-184.	0.0	316.	0.0	1304.	0.0	3620.	0.0	-673.	-2.2
86	2614.	8.3	-381.	107.4	119.	-62.4	1501.	15.1	3620.	0.0	-669.	-0.5
87	2828.	8.2	-381.	0.0	119.	0.0	1501.	0.0	3620.	0.0	-652.	-2.6
88	3060.	8.2	-381.	0.0	119.	0.0	1501.	0.0	3620.	0.0	-632.	-2.9
89	3294.	7.6	-381.	0.0	119.	0.0	1501.	0.0	3620.	0.0	-612.	-3.2
90	3542.	7.5	-381.	0.0	119.	0.0	1501.	0.0	3620.	0.0	-590.	-3.5

FA	EDC10AR06	ZRCL	EDC10AR07A	ZRCL	EDC10AR11	ZRCL	EDC10AR12	ZRCL	EDC10AR14	ZRCL	EDC10BR03	ZRCL
78	-652.		58.		89.		32.		48.		-8218.	
79	-471.	-27.8	60.	3.3	89.	11.1	35.	9.9	54.	12.0	-10525.	28.1
80	-610.	29.6	61.	1.2	100.	12.6	39.	9.8	62.	14.5	-10625.	1.0
81	-699.	14.6	61.	1.2	112.	11.8	42.	9.8	70.	13.1	-10724.	0.9
82	-693.	-1.0	67.	9.5	125.	11.3	47.	9.9	78.	12.1	-11755.	9.6
83	-692.	-0.1	80.	19.6	138.	11.0	51.	10.1	87.	11.5	-14117.	20.1
84	-684.	-1.1	87.	8.2	153.	10.5	56.	9.5	97.	11.1	-15278.	8.2
85	-669.	-2.2	87.	0.0	168.	10.0	62.	9.5	107.	10.4	-15237.	-0.3
86	-665.	-0.5	100.	15.1	185.	9.8	67.	9.6	117.	9.9	-17592.	15.5
87	-648.	-2.7	100.	0.0	202.	9.6	74.	9.7	128.	9.5	-17545.	-0.3
88	-628.	-3.0	100.	0.0	222.	9.5	81.	9.8	140.	9.3	-17495.	-0.3
89	-608.	-3.2	100.	0.0	242.	9.2	89.	9.3	153.	9.2	-17444.	-0.3
90	-586.	-3.6	100.	0.0	264.	8.9	97.	9.3	167.	8.7	-17390.	-0.3

FA	EDC10BR06	ZRCL	EDC10BR07A	ZRCL	EDC10BR11	ZRCL	EDC10BR16	ZRCL	EDC10R02	ZRCL	EDC10R03	ZRCL
78	-8147.		9320.		436.		436.		81.		-8875.	
79	-10440.	28.2	10913.	17.1	465.	6.6	465.	6.6	81.	0.0	-11000.	23.9
80	-10549.	1.0	11044.	1.2	495.	6.5	495.	6.5	81.	0.0	-11240.	2.2
81	-10647.	-0.9	11175.	1.2	528.	6.5	528.	6.5	81.	0.0	-11428.	1.7
82	-11678.	9.7	12249.	9.5	563.	6.6	563.	6.6	81.	0.0	-12452.	9.0
83	-14010.	20.2	14540.	19.6	600.	6.7	600.	6.7	81.	0.0	-14813.	19.0
84	-15201.	8.3	15839.	8.2	638.	6.3	638.	6.3	81.	0.0	-15964.	7.8
85	-15149.	-0.3	15839.	0.0	679.	6.3	679.	6.3	81.	0.0	-15910.	-0.3
86	-17515.	15.5	18237.	15.1	722.	6.4	722.	6.4	81.	0.0	-18261.	14.8
87	-17460.	-0.3	18237.	0.0	769.	6.5	769.	6.5	81.	0.0	-18197.	-0.4
88	-17416.	-0.3	18237.	0.0	819.	6.5	819.	6.5	81.	0.0	-18127.	-0.4
89	-17367.	-0.3	18237.	0.0	870.	6.2	870.	6.2	81.	0.0	-18056.	-0.4
90	-17313.	-0.3	18237.	0.0	924.	6.2	924.	6.2	81.	0.0	-17981.	-0.4

FA	EDC10R05	ZRCL	EDC10R06	ZRCL	EDC10R07A	ZRCL	EDC10R07B	ZRCL	EDC10R10A	ZRCL	EDC10R10B	ZRCL
78	-2.		-8739.		9378.		874.		-1.		0.	
79	0.	-100.0	-10919.	24.1	10972.	17.0	569.	-25.8	0.	-100.0	0.	---
80	0.	---	-11159.	2.2	11101.	1.2	650.	30.0	0.	---	0.	---
81	0.	---	-11347.	1.7	11235.	1.2	750.	15.4	0.	---	0.	---
82	0.	---	-12371.	9.0	12300.	9.5	750.	0.0	0.	---	0.	---
83	0.	---	-14732.	19.1	14721.	19.6	750.	0.0	0.	---	0.	---
84	0.	---	-15865.	7.8	15924.	8.2	750.	0.0	0.	---	0.	---
85	0.	---	-15821.	-0.4	15924.	0.0	750.	0.0	0.	---	0.	---
86	0.	---	-18188.	14.9	18337.	15.1	750.	0.0	0.	---	0.	---
87	0.	---	-18116.	-0.4	18337.	0.0	750.	0.0	0.	---	0.	---
88	0.	---	-18048.	-0.4	18337.	0.0	750.	0.0	0.	---	0.	---
89	0.	---	-17975.	-0.4	18337.	0.0	750.	0.0	0.	---	0.	---
90	0.	---	-17900.	-0.4	18337.	0.0	750.	0.0	0.	---	0.	---

FA	EDC10R11	%CCL	EDC10R12	%CCL	EDC10R14	%CCL	EDC10R16	%CCL	EDC11AR01	%CCL	EDC11AR06	%CCL
78	516.		32.		48.		436.		30327.		30327.	
79	554.	7.3	35.	9.1	54.	12.4	465.	6.6	29899.	-1.4	29899.	-1.4
80	595.	7.5	39.	9.8	62.	14.5	495.	6.5	33966.	13.6	33966.	13.6
81	640.	7.4	42.	9.8	70.	13.1	528.	6.5	34446.	1.4	34446.	1.4
82	687.	7.4	47.	9.9	78.	12.1	563.	6.6	41431.	20.3	41431.	20.3
83	739.	7.5	51.	10.1	87.	11.5	600.	6.7	50775.	22.6	50775.	22.6
84	791.	7.0	56.	9.5	97.	11.1	638.	6.3	60076.	18.3	60076.	18.3
85	847.	7.0	62.	9.5	107.	10.6	679.	6.3	60513.	0.7	60513.	0.7
86	907.	7.1	67.	9.6	117.	9.9	722.	6.4	60995.	0.8	60995.	0.8
87	971.	7.1	74.	9.7	128.	9.5	769.	6.5	61527.	0.9	61527.	0.9
88	1040.	7.2	81.	9.8	140.	9.3	819.	6.5	62123.	1.0	62123.	1.0
89	1112.	6.8	89.	9.3	153.	9.2	870.	6.2	62740.	1.0	62740.	1.0
90	1187.	6.8	97.	9.3	167.	8.7	924.	6.2	63415.	1.1	63415.	1.1

FA	EDC11AL08	%CCL	EDC11AR10A	%CCL	EDC11AR11	%CCL	EDC11AS12	%CCL	EDC11AR14	%CCL	EDC11AR16	%CCL
78	-45.		-8560.		2225.		1139.		2.		1084.	
79	-54.	20.3	-4155.	-47.2	2444.	9.9	1252.	9.9	2.	6.6	1192.	9.9
80	-54.	0.2	-5495.	13.6	2685.	9.8	1375.	9.8	2.	6.3	1309.	9.8
81	-54.	0.3	-5187.	1.8	2949.	9.8	1510.	9.8	2.	6.1	1437.	9.8
82	-55.	0.3	-6215.	20.3	3242.	9.9	1660.	9.9	3.	6.0	1580.	9.9
83	-55.	0.3	-7616.	22.6	3568.	10.1	1827.	10.1	3.	6.0	1739.	10.1
84	-55.	0.3	-9011.	18.3	3907.	9.5	2000.	9.5	3.	6.1	1904.	9.5
85	-55.	0.3	-9077.	0.7	4278.	9.5	2190.	9.5	3.	6.0	2085.	9.5
86	-55.	0.3	-9149.	0.8	4688.	9.6	2400.	9.6	3.	5.9	2284.	9.6
87	-55.	0.3	-9229.	0.9	5142.	9.7	2633.	9.7	3.	6.0	2506.	9.7
88	-56.	0.4	-9318.	1.0	5645.	9.8	2891.	9.8	4.	6.0	2751.	9.8
89	-56.	0.4	-9411.	1.0	6170.	9.3	3159.	9.3	4.	6.1	3007.	9.3
90	-56.	0.4	-9512.	1.1	6744.	9.3	3453.	9.3	4.	6.0	3286.	9.3

FA	EDC11BR03	%CCL	EDC11BR06	%CCL	EDC11CR08	%CCL	EDC11CR11	%CCL	EDC11CR14	%CCL	EDC11R01	%CCL
78	-7519.		-7519.		20.		14.		14.		30327.	
79	-10846.	44.2	-11146.	48.2	9.	-54.3	2.	-84.8	2.	-84.8	29899.	-1.4
80	-13691.	26.2	-13891.	24.6	9.	1.5	2.	6.3	2.	6.3	33966.	13.6
81	-13924.	0.2	-13921.	0.2	9.	1.5	2.	6.1	2.	6.1	34446.	1.4
82	-19001.	36.5	-19001.	36.5	10.	1.5	3.	6.0	3.	6.0	41431.	20.3
83	-25956.	36.6	-25956.	36.6	10.	1.6	3.	6.0	3.	6.0	50775.	22.6
84	-32768.	26.3	-32768.	26.3	10.	1.7	3.	6.1	3.	6.1	60076.	18.3
85	-32768.	0.0	-32768.	0.0	10.	1.7	3.	6.0	3.	6.0	60513.	0.7
86	-32768.	0.0	-32768.	0.0	10.	1.8	3.	5.9	3.	5.9	60995.	0.8
87	-32768.	0.0	-32768.	0.0	10.	1.9	3.	6.0	3.	6.0	61527.	0.9
88	-32768.	0.0	-32768.	0.0	11.	2.0	4.	6.0	4.	6.0	62123.	1.0
89	-32768.	0.0	-32768.	0.0	11.	2.1	4.	6.1	4.	6.1	62740.	1.0
90	-32768.	0.0	-32768.	0.0	11.	2.1	4.	6.0	4.	6.0	63415.	1.1

FA	EDC11R03	%CCL	EDC11R05	%CCL	EDC11R08	%CCL	EDC11R09B	%CCL	EDC11R10A	%CCL
78	-7519.		22888.		20.		-4335.		8560.	
79	-10846.	44.2	18753.	-18.0	-45.	-325.0	-4020.	-7.3	-4495.	-152.5
80	-13691.	26.2	20075.	7.0	-45.	0.0	-4492.	11.7	-5095.	13.4
81	-13924.	0.2	20525.	2.2	-45.	0.0	-4605.	2.5	-5187.	1.8
82	-19001.	36.5	22439.	9.3	-45.	0.0	-5171.	12.3	-6215.	20.3
83	-25956.	36.6	24919.	11.1	-45.	0.0	-5932.	14.7	-7616.	22.6
84	-32768.	26.3	27418.	10.0	-45.	0.0	-6689.	12.8	-9011.	18.3
85	-32768.	0.0	27847.	1.6	-45.	0.0	-6689.	0.0	-9077.	0.7
86	-32768.	0.0	28329.	1.7	-45.	0.0	-6689.	0.0	-9149.	0.8
87	-32768.	0.0	28843.	1.8	-45.	0.0	-6689.	0.0	-9229.	0.9
88	-32768.	0.0	29457.	2.1	-45.	0.0	-6689.	0.0	-9318.	1.0
89	-32768.	0.0	30074.	2.1	-45.	0.0	-6689.	0.0	-9411.	1.0
90	-32768.	0.0	30749.	2.2	-45.	0.0	-6689.	0.0	-9512.	1.1

FA	ESC11R10B	%ECL	ESC11R11	%ECL	ESC11R12	%ECL	ESC11R14	%ECL	ESC11R16	%ECL	ESC12R01	%ECL
78	-7721.		2231.		1139.		16.		1084.		0.	
79	-7755.	0.4	2440.	9.4	1252.	9.9	4.	-73.3	1192.	9.9	0.	---
80	-7755.	0.0	2459.	9.8	1375.	9.8	5.	4.3	1309.	9.8	0.	---
81	-7755.	0.0	2852.	9.8	1510.	9.8	5.	4.4	1437.	9.8	0.	---
82	-7755.	0.0	3244.	9.9	1660.	9.9	5.	6.0	1580.	9.9	0.	---
83	-7755.	0.0	3570.	10.0	1827.	10.1	5.	4.0	1739.	10.1	0.	---
84	-7755.	0.0	3909.	9.5	2000.	9.5	6.	6.1	1904.	9.5	0.	---
85	-7755.	0.0	4281.	9.5	2190.	9.5	6.	4.0	2085.	9.5	0.	---
86	-7755.	0.0	4691.	9.6	2400.	9.6	6.	5.9	2284.	9.6	0.	---
87	-7755.	0.0	5145.	9.7	2633.	9.7	7.	6.0	2504.	9.7	0.	---
88	-7755.	0.0	5609.	9.0	2891.	9.8	7.	4.0	2751.	9.8	0.	---
89	-7755.	0.0	6174.	9.3	3159.	9.3	8.	6.1	3007.	9.3	0.	---
90	-7755.	0.0	6748.	9.3	3453.	9.3	8.	6.4	3286.	9.3	0.	---

FA	ESC12R06	%ECL	ESC12R10B	%ECL	ESC13R01	%ECL	ESC13R06	%ECL	ESC13R10B	%ECL	ESC14R03	%ECL
78	0.		0.		1241.		1240.		-893.		1497.	
79	0.	---	0.	---	1421.	14.5	1420.	14.5	-1022.	14.5	3970.	-9.9
80	0.	---	0.	---	1817.	27.9	1817.	27.9	-1307.	27.9	4415.	11.2
81	0.	---	0.	---	1847.	2.8	1867.	2.8	-1344.	2.8	4921.	11.5
82	0.	---	0.	---	1886.	1.0	1885.	1.0	-1357.	1.0	5487.	11.5
83	0.	---	0.	---	1980.	5.0	1980.	5.0	-1424.	5.0	6091.	11.0
84	0.	---	0.	---	3919.	98.0	3919.	98.0	-2820.	98.0	6705.	10.1
85	0.	---	0.	---	3937.	0.5	3937.	0.5	-2833.	0.5	7348.	9.6
86	0.	---	0.	---	3955.	0.5	3955.	0.5	-2846.	0.5	8027.	9.2
87	0.	---	0.	---	3973.	0.5	3973.	0.5	-2859.	0.4	8752.	9.0
88	0.	---	0.	---	3991.	0.5	3991.	0.5	-2872.	0.5	9531.	8.9
89	0.	---	0.	---	4012.	0.5	4012.	0.5	-2887.	0.5	10340.	8.5
90	0.	---	0.	---	4030.	0.5	4030.	0.5	-2900.	0.5	11192.	8.2

FA	ESC14R07	%ECL	ESC14R10B	%ECL	ESC14R11	%ECL	ESC14R12	%ECL	ESC14R14	%ECL	ESC14R15	%ECL
78	1117.		-354.		923.		574.		302.		47.	
79	1191.	6.6	-379.	14.0	1012.	9.7	651.	15.4	292.	-3.5	57.	21.2
80	1325.	11.2	-399.	11.2	1126.	11.2	747.	12.5	318.	8.4	63.	10.4
81	1476.	11.5	-221.	11.5	1255.	11.5	843.	12.9	342.	8.2	70.	11.0
82	1887.	11.5	-247.	11.5	1400.	11.5	952.	12.9	370.	8.1	78.	11.4
83	1822.	11.4	-274.	11.4	1553.	11.0	1066.	12.0	400.	8.1	87.	11.7
84	2012.	10.1	-302.	10.1	1710.	10.1	1193.	11.9	433.	8.2	95.	8.8
85	2205.	9.6	-331.	9.6	1874.	9.6	1303.	10.2	468.	8.0	103.	9.4
86	2408.	9.2	-361.	9.2	2047.	9.2	1428.	9.7	505.	8.0	113.	9.6
87	2624.	9.0	-394.	9.0	2232.	9.0	1562.	9.3	545.	8.0	124.	9.8
88	2859.	8.9	-429.	8.9	2430.	8.9	1704.	9.1	589.	8.1	137.	9.9
89	3102.	8.5	-465.	8.5	2637.	8.5	1851.	8.6	638.	8.2	147.	7.0
90	3358.	8.2	-504.	8.2	2854.	8.2	2008.	8.3	689.	8.0	159.	8.1

FA	ESC15R01	%ECL	ESC15R02	%ECL	ESC15R03	%ECL	ESC15R04	%ECL	ESC15R05	%ECL	ESC15R06	%ECL
78	151484.		9883.		-111829.		-489.		-528.		41129.	
79	155846.	2.8	14039.	42.7	-122391.	9.4	-450.	6.7	0.	-100.0	44124.	-4.1
80	155100.	0.0	16220.	15.0	-120221.	-1.8	-470.	6.2	0.	---	50409.	9.3
81	161336.	4.0	18665.	15.1	-125275.	4.2	-730.	5.8	0.	---	53997.	7.1
82	174756.	8.3	19895.	6.6	-134396.	7.3	-769.	6.8	0.	---	59469.	10.1
83	186419.	6.7	25405.	27.0	-142171.	5.8	-835.	7.1	0.	---	69358.	16.6
84	192613.	4.1	26473.	4.0	-147227.	3.6	-889.	5.4	0.	---	76939.	10.9
85	199552.	5.1	29914.	12.2	-148180.	0.6	-925.	5.1	0.	---	81264.	5.6
86	201710.	0.9	29719.	-0.7	-144979.	-2.2	-975.	5.4	0.	---	85975.	5.8
87	203551.	0.9	33394.	12.4	-145484.	0.4	-1030.	5.6	0.	---	90923.	5.8
88	205493.	1.0	37327.	11.8	-145928.	0.3	-1090.	5.8	0.	---	96241.	5.8
89	207476.	1.0	41389.	10.9	-146420.	0.3	-1155.	6.0	0.	---	101732.	5.7
90	209343.	0.9	45702.	10.4	-146742.	0.2	-1230.	6.5	0.	---	107567.	5.7

FA	EBC15R07	%CL	EBC15R08	%CL	EBC15R09A	%CL	EBC15R09B	%CL	EBC15R10A	%CL	EBC15R10B	%CL
78	-3289.		-4.		-354.		-1721.		-8860.		-7875.	
79	-3801.	15.6	-90.	2150.0	-423.	19.4	-1520.	-11.8	-4745.	-46.4	-7931.	0.7
80	-4398.	15.7	-90.	0.0	-428.	1.2	-1842.	21.2	-5355.	12.9	-7954.	0.3
81	-4789.	8.9	-90.	0.0	-433.	1.2	-1856.	0.8	-5427.	1.3	-7976.	0.3
82	-5199.	8.6	-90.	0.0	-474.	9.5	-2421.	30.4	-6475.	19.3	-8002.	0.3
83	-5688.	9.4	-90.	0.0	-567.	19.6	-3182.	31.4	-7876.	21.6	-8027.	0.3
84	-7514.	32.1	-90.	0.0	-613.	8.2	-3939.	23.8	-9271.	17.7	-8052.	0.3
85	-7977.	6.2	-90.	0.0	-613.	0.0	-3939.	0.0	-9337.	0.7	-8086.	0.4
86	-8465.	6.1	-90.	0.0	-706.	15.1	-3939.	0.0	-9411.	0.8	-8116.	0.4
87	-8985.	6.1	-90.	0.0	-706.	0.0	-3939.	0.0	-9491.	0.9	-8147.	0.4
88	-9543.	6.2	-90.	0.0	-706.	0.0	-3939.	0.0	-9578.	0.9	-8181.	0.4
89	-10125.	6.1	-90.	0.0	-706.	0.0	-3939.	0.0	-9671.	1.0	-8220.	0.4
90	-10735.	6.0	-90.	0.0	-706.	0.0	-3939.	0.0	-9772.	1.0	-8259.	0.5

FA	EBC15R11	%CL	EBC15R12	%CL	EBC15R13	%CL	EBC15R14	%CL	EBC15R15	%CL	EBC15R16	%CL
78	24503.		5598.		7472.		8873.		1020.		1547.	
79	27612.	12.7	6244.	11.6	8661.	15.9	9773.	10.1	1247.	22.2	1687.	9.0
80	30343.	9.9	6917.	10.8	9437.	9.0	10810.	10.6	1343.	7.7	1834.	8.7
81	33426.	10.2	7799.	12.8	10278.	8.9	11899.	10.1	1455.	8.3	1995.	8.8
82	36800.	10.1	8828.	13.2	11165.	8.6	13040.	9.6	1583.	8.8	2172.	8.9
83	43926.	19.3	9791.	10.9	12176.	9.1	14239.	9.2	1730.	9.2	5969.	175.7
84	47444.	8.0	10701.	9.3	13196.	8.4	15504.	8.9	1854.	7.2	6192.	3.7
85	51222.	8.0	11683.	9.2	14302.	8.4	16827.	8.5	1997.	7.7	6413.	3.6
86	55250.	7.9	12730.	9.0	15486.	8.3	18212.	8.2	2157.	8.0	6657.	3.8
87	59565.	7.8	13880.	9.0	16757.	8.2	19662.	8.0	2335.	8.3	6924.	4.0
88	64201.	7.8	15149.	9.0	18121.	8.1	21187.	7.8	2533.	8.5	7220.	4.3
89	68981.	7.4	16418.	8.4	19547.	7.9	22795.	7.6	2704.	6.8	7527.	4.2
90	74086.	7.4	17774.	8.3	21061.	7.7	24479.	7.4	2897.	7.1	7860.	4.4

FA	EBC16R01	%CL	EBC16R05	%CL	EBC16R11	%CL	EBC16R12	%CL	EBC16R14	%CL	EBC17R01	%CL
78	39492.		39492.		39492.		6288.		33168.		190974.	
79	40278.	2.0	40278.	2.0	40278.	2.0	4288.	-31.8	35954.	8.4	195340.	2.3
80	42551.	5.6	42551.	5.6	42551.	5.6	3628.	-15.4	38908.	8.2	197652.	1.2
81	45078.	5.9	45078.	5.9	45078.	5.9	3028.	-16.5	42021.	8.0	206414.	4.4
82	47896.	6.3	47896.	6.2	47896.	6.3	2502.	-17.2	45357.	7.9	222651.	7.9
83	51027.	6.5	51027.	6.5	51027.	6.5	2063.	-17.6	48928.	7.9	237346.	6.6
84	54585.	7.0	54585.	7.0	54585.	7.0	1790.	-13.2	52758.	7.8	252298.	6.3
85	58448.	7.1	58448.	7.1	58448.	7.1	1539.	-14.1	56873.	7.8	258439.	2.4
86	62650.	7.2	62650.	7.2	62650.	7.2	1317.	-14.4	61297.	7.8	264359.	2.3
87	67217.	7.3	67217.	7.3	67217.	7.3	1124.	-14.7	66057.	7.8	270768.	2.4
88	72174.	7.4	72174.	7.4	72174.	7.4	957.	-14.8	71181.	7.8	277687.	2.5
89	77580.	7.5	77580.	7.5	77580.	7.5	846.	-11.6	76699.	7.8	285058.	2.7
90	83419.	7.5	83419.	7.5	83419.	7.5	743.	-12.2	82649.	7.7	292762.	2.7

FA	EBC17R02	%CL	EBC17R03	%CL	EBC17R04	%CL	EBC17R05	%CL	EBC17R06	%CL	EBC17R07	%CL
78	9883.		-111629.		-617.		-528.		88621.		-3289.	
79	14099.	42.7	-122311.	9.6	-659.	6.7	0.	-100.0	86412.	-2.5	-3801.	15.6
80	16220.	15.0	-120221.	-1.8	-699.	6.2	0.	---	92969.	7.6	-4398.	15.7
81	18666.	15.1	-125275.	4.2	-734.	5.0	0.	---	99075.	6.6	-4789.	8.9
82	19890.	6.6	-134396.	7.3	-780.	6.3	0.	---	107364.	8.4	-5199.	8.6
83	25445.	27.9	-142171.	5.8	-835.	7.1	0.	---	120365.	12.1	-5688.	9.4
84	26673.	4.8	-147227.	3.6	-880.	5.4	0.	---	131515.	9.2	-7514.	32.1
85	29934.	12.2	-148109.	0.6	-925.	5.1	0.	---	139712.	6.2	-7977.	6.2
86	29719.	-0.7	-144929.	-2.2	-975.	5.4	0.	---	148625.	6.4	-8465.	6.1
87	33396.	12.4	-145454.	0.4	-1030.	5.6	0.	---	158140.	6.4	-8985.	6.1
88	37327.	11.8	-145983.	0.3	-1090.	5.8	0.	---	168416.	6.5	-9543.	6.2
89	41389.	10.9	-146470.	0.3	-1155.	6.0	0.	---	179312.	6.5	-10125.	6.1
90	45702.	10.4	-146740.	0.2	-1230.	6.5	0.	---	190968.	6.5	-10735.	6.0

FA	ESC17R08	%CCL	ESC17R09A	%CCL	ESC17R09B	%CCL	ESC17R10A	%CCL	ESC17R10B	%CCL	ESC17R11	%CCL
78	-1.		-354.		-1224.		-8809.		-7875.		63797.	
79	-22.	2150.0	-423.	19.4	-1520.	-24.2	-4745.	-46.1	-7931.	0.7	67699.	6.1
80	-22.	0.0	-428.	1.2	-1842.	21.2	-5355.	12.9	-7954.	0.3	72691.	7.4
81	-22.	0.0	-433.	1.2	-1854.	0.6	-5427.	1.3	-7976.	0.3	78591.	7.7
82	-22.	0.0	-474.	9.5	-2421.	30.6	-6475.	19.3	-8002.	0.3	84769.	7.9
83	-22.	0.0	-567.	19.6	-3182.	31.4	-7874.	21.6	-8027.	0.3	94553.	12.1
84	-22.	0.0	-613.	8.2	-3939.	23.8	-9271.	17.7	-8051.	0.3	101631.	7.5
85	-22.	0.0	-613.	0.0	-3939.	0.0	-9337.	0.7	-8084.	0.4	109270.	7.5
86	-22.	0.0	-706.	15.1	-3939.	0.0	-9409.	0.8	-8116.	0.4	117839.	7.5
87	-22.	0.0	-706.	0.0	-3939.	0.0	-9494.	0.9	-8147.	0.4	126702.	7.5
88	-22.	0.0	-706.	0.0	-3939.	0.0	-9578.	0.9	-8181.	0.4	136375.	7.6
89	-22.	0.0	-705.	0.0	-3939.	0.0	-9671.	1.0	-8220.	0.4	146561.	7.5
90	-22.	0.0	-706.	0.0	-3939.	0.0	-9772.	1.0	-8259.	0.5	157485.	7.5

FA	ESC17R12	%CCL	ESC17R13	%CCL	ESC17R14	%CCL	ESC17R15	%CCL	ESC17R16	%CCL	EXP8	%CCL
78	11892.		7500.		42011.		1020.		1547.		4535.	
79	10532.	-11.4	8687.	15.8	45727.	8.8	1247.	22.2	1687.	9.0	8111.	78.8
80	10536.	0.0	9475.	9.0	49706.	8.7	1343.	7.7	1851.	9.7	9383.	15.7
81	10820.	2.7	10314.	8.9	53920.	8.5	1455.	8.3	1995.	7.8	10859.	15.7
82	11330.	4.7	11221.	8.8	58397.	8.3	1583.	8.8	2172.	8.9	12557.	15.6
83	11851.	4.6	12212.	8.8	63187.	8.2	1730.	9.2	5988.	175.7	14510.	15.6
84	12491.	5.4	13232.	8.4	68262.	8.0	1854.	7.2	6192.	3.4	16732.	15.3
85	13221.	5.8	14339.	8.4	73720.	8.0	1997.	7.7	6413.	3.4	19292.	15.3
86	14055.	6.3	15522.	8.3	79509.	7.9	2157.	8.0	6657.	3.8	22231.	15.3
87	15010.	6.8	16793.	8.2	85720.	7.8	2335.	8.3	6924.	4.0	25622.	15.3
88	16097.	7.2	18157.	8.1	92368.	7.8	2533.	8.5	7220.	4.3	29473.	15.0
89	17254.	7.2	19501.	7.4	99493.	7.7	2704.	6.8	7527.	4.2	33983.	15.3
90	18512.	7.3	20997.	7.7	107119.	7.7	2897.	7.1	7860.	4.4	39116.	15.1

FA	EXP731	%CCL	GSP8	%CCL	GSP731	%CCL	GXP8	%CCL	GXP731	%CCL	IIP731	%CCL
78	1619.		21788.		9392.		20942.		8926.		155.	
79	1826.	12.7	29335.	34.6	10015.	6.6	28224.	34.8	9445.	6.1	166.	7.1
80	1959.	6.8	34903.	19.0	10669.	6.5	33523.	18.8	10035.	6.2	174.	4.8
81	2083.	6.3	41284.	18.3	11368.	6.5	39993.	19.3	10664.	6.3	188.	7.9
82	2191.	5.2	48823.	18.3	12119.	6.6	46775.	17.0	11341.	6.3	203.	8.0
83	2326.	6.2	57320.	17.4	12933.	6.7	55139.	17.9	12023.	6.0	217.	6.9
84	2468.	6.1	67066.	17.0	13750.	6.3	64455.	16.9	12867.	7.0	231.	6.5
85	2617.	6.0	78119.	16.5	14623.	6.3	75181.	16.6	13595.	5.7	245.	6.1
86	2773.	6.0	90874.	16.3	15555.	6.4	87410.	16.3	14435.	6.2	261.	6.5
87	2937.	5.9	105655.	16.3	16581.	6.6	101623.	16.3	15339.	6.3	278.	6.5
88	3109.	5.9	122775.	16.2	17663.	6.5	118087.	16.2	16314.	6.4	296.	6.5
89	3290.	5.8	141805.	15.5	18756.	6.2	136391.	15.5	17293.	6.0	313.	5.7
90	3480.	5.8	163335.	15.2	19919.	6.2	157094.	15.2	18341.	6.1	332.	6.1

FA	IMP8	%CCL	IMP731	%CCL	ISP8	%CCL	ISP731	%CCL	MI8	%CCL	MI731	%CCL
78	4282.		2318.		4422.		2272.		18651.		7839.	
79	5571.	30.1	2797.	20.7	5803.	31.2	2499.	10.0	21571.	15.7	8282.	5.7
80	6824.	22.5	3095.	10.6	7161.	23.4	2749.	10.0	24546.	13.9	8783.	6.0
81	8340.	22.2	3412.	10.2	8797.	22.8	3017.	9.8	27659.	12.7	9313.	6.0
82	10180.	22.1	3752.	10.0	10772.	22.5	3311.	9.7	31003.	12.1	9870.	6.0
83	12421.	22.0	4121.	9.8	13185.	22.3	3632.	9.7	34559.	11.5	10473.	6.1
84	14739.	18.7	4491.	9.0	15789.	19.7	3945.	8.6	38391.	11.1	11127.	6.2
85	17610.	19.5	4884.	8.8	18822.	19.3	4284.	8.6	42327.	10.2	11781.	5.9
86	20940.	18.9	5307.	8.7	22425.	19.1	4650.	8.5	46477.	9.8	12455.	5.7
87	24889.	18.9	5768.	8.6	26687.	19.0	5045.	8.5	50902.	9.5	13202.	6.0
88	29500.	18.5	6255.	8.5	31743.	18.9	5477.	8.5	55652.	9.3	13842.	4.8
89	34364.	16.5	6750.	7.9	37042.	16.7	5900.	7.7	60769.	9.2	14700.	6.2
90	39888.	16.1	7276.	7.8	43133.	16.4	6354.	7.7	65995.	8.6	15571.	5.9

FA	FCGA	ZECL	FCFA	ZECL	FCLFA	ZECL	FGEFA	ZECL	FGNFA	ZECL	PINFA	ZECL
78	219.		215.		280.		232.		235.		174.	
79	253.	15.5	246.	14.4	445.	58.7	293.	26.3	299.	27.1	199.	14.4
80	284.	12.3	275.	11.8	484.	8.8	327.	11.5	334.	11.8	220.	10.8
81	317.	11.7	306.	11.3	526.	8.8	362.	11.0	372.	11.3	244.	10.9
82	353.	11.3	339.	10.9	573.	8.8	401.	10.7	412.	11.0	271.	11.0
83	392.	11.0	376.	10.7	624.	8.9	443.	10.5	457.	10.7	301.	11.1
84	432.	10.3	414.	10.0	678.	8.7	488.	10.0	504.	10.2	330.	9.3
85	474.	9.7	453.	9.5	737.	8.7	534.	9.4	553.	9.8	360.	9.4
86	519.	9.5	495.	9.3	802.	8.8	584.	9.3	606.	9.6	394.	9.4
87	567.	9.3	540.	9.1	872.	8.8	638.	9.2	662.	9.4	432.	9.5
88	620.	9.2	589.	9.0	948.	8.7	696.	9.1	724.	9.3	473.	9.5
89	673.	8.6	639.	8.4	1031.	8.7	757.	8.8	788.	8.9	509.	7.7
90	728.	8.2	690.	8.1	1121.	8.8	821.	8.5	855.	8.6	548.	7.7

FA	PIIFA	ZECL	TRB	ZECL	SF173A	ZECL
78	195.		3001680.		222.	
79	232.	19.0	3525844.	17.5	261.	17.5
80	261.	12.2	4105841.	16.4	294.	12.6
81	292.	11.9	4741257.	15.5	330.	12.0
82	326.	11.7	5437802.	14.7	368.	11.6
83	363.	11.5	6197115.	14.0	410.	11.4
84	400.	10.2	7020378.	13.2	453.	10.4
85	439.	9.9	7904318.	12.6	497.	9.9
86	482.	9.7	8858709.	12.0	546.	9.7
87	529.	9.7	9884820.	11.6	598.	9.5
88	580.	9.6	10993884.	11.2	651.	9.0
89	628.	8.3	12158574.	10.7	710.	8.6
90	679.	8.1	13411578.	10.3	769.	8.3

(32)

(2) Exogenous Variables

FA	CGI	%CCL	EXC01R02	%CCL	EXC01R03	%CCL	EXC01R05	%CCL	EXC01R08	%CCL
78	2331.59000		0.00000		-39.00000		-42.00000		0.00000	
79	3261.10000	39.9	0.00000	---	-39.00000	0.0	0.00000	-100.0	0.00000	---
80	4047.40100	24.1	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
81	5018.83316	24.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
82	6223.41310	24.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
83	7717.03313	24.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
84	9260.43576	20.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
85	11112.52339	20.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
86	13335.02807	20.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
87	16002.03367	20.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
88	19202.44842	20.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
89	22465.45530	17.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---
90	26284.22270	17.0	0.00000	---	-39.00000	0.0	0.00000	---	0.00000	---

FA	EXC01R10A	%CCL	EXC01R10B	%CCL	EXC01R12	%CCL	EXC01R13	%CCL	EXC01R14	%CCL
78	-8.00000		0.00000		50.00000		28.00000		0.00000	
79	-8.00000	0.0	0.00000	---	159.00000	218.0	53.00000	89.3	0.00000	---
80	-8.00000	0.0	0.00000	---	227.00000	42.8	41.00000	-22.6	0.00000	---
81	-8.00000	0.0	0.00000	---	287.00000	26.4	31.00000	-24.4	0.00000	---
82	-8.00000	0.0	0.00000	---	407.00000	41.8	22.00000	-29.0	0.00000	---
83	-8.00000	0.0	0.00000	---	453.00000	11.3	22.00000	0.0	0.00000	---
84	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	-81.8	0.00000	---
85	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---
86	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---
87	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---
88	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---
89	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---
90	-8.00000	0.0	0.00000	---	453.00000	0.0	4.00000	0.0	0.00000	---

FA	EXC01R16	%CCL	EXC02R01	%CCL	EXC02R02	%CCL	EXC02R05	%CCL	EXC02R07A	%CCL
78	27.00000		119578.00000		6224.00000		-552.00000		-32025.00000	
79	30.00000	11.1	123288.00000	3.1	6224.00000	0.0	0.00000	-100.0	-33270.00000	3.9
80	30.00000	0.0	118703.00000	-3.7	6224.00000	0.0	0.00000	---	-33670.00000	1.2
81	30.00000	0.0	124180.00000	4.6	6224.00000	0.0	0.00000	---	-34070.00000	1.2
82	30.00000	0.0	130103.00000	4.8	6224.00000	0.0	0.00000	---	-37320.00000	9.5
83	30.00000	0.0	131880.00000	1.4	12448.00000	100.0	0.00000	---	-44635.00000	19.6
84	30.00000	0.0	133000.00000	0.9	12448.00000	0.0	0.00000	---	-48290.00000	8.2
85	30.00000	0.0	131780.00000	-0.9	12448.00000	0.0	0.00000	---	-48290.00000	0.0
86	30.00000	0.0	135000.00000	0.6	12448.00000	0.0	0.00000	---	-55600.00000	15.1
87	30.00000	0.0	135850.00000	0.6	12448.00000	0.0	0.00000	---	-55600.00000	0.0
88	30.00000	0.0	136680.00000	0.6	12448.00000	0.0	0.00000	---	-55600.00000	0.0
89	30.00000	0.0	137430.00000	0.6	12448.00000	0.0	0.00000	---	-55600.00000	0.0
90	30.00000	0.0	138000.00000	0.4	12448.00000	0.0	0.00000	---	-55600.00000	0.0

FA	EXC02R11A	%CCL	EXC02R10B	%CCL	EXC03R03	%CCL	EXC03R04	%CCL	EXC03R05	%CCL
78	-252.00000		0.00000		0.00000		-1.00000		-122.00000	
79	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	-100.0	0.00000	-100.0
80	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
81	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
82	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
83	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
84	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
85	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
86	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
87	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
88	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
89	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
90	-252.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---

FA	EBC04R10A	ZCCL	EBC04R10B	ZCCL	EBC04R12	ZCCL	EBC04R15	ZCCL	EBC05L01	ZCCL
78	0.00000		0.00000		0.00000		285.00000		-203.00000	
79	0.00000	---	0.00000	---	0.00000	---	300.00000	5.3	-235.00000	15.8
80	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-270.00000	14.9
81	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-310.00000	14.8
82	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-360.00000	16.1
83	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-410.00000	13.9
84	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-455.00000	11.0
85	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-500.00000	9.9
86	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-550.00000	10.0
87	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-605.00000	10.0
88	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-665.00000	9.9
89	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-730.00000	9.8
90	0.00000	---	0.00000	---	0.00000	---	300.00000	0.0	-805.00000	10.3

FA	EBC05R05	ZCCL	EBC05R10A	ZCCL	EBC05R10B	ZCCL	EBC06R05	ZCCL	EBC06R10A	ZCCL
78	16.00000		0.00000		0.00000		-85.00000		0.00000	
79	0.00000	-100.0	0.00000	---	0.00000	---	0.00000	-100.0	0.00000	---
80	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
81	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
82	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
83	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
84	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
85	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
86	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
87	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
88	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
89	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---
90	0.00000	---	0.00000	---	0.00000	---	0.00000	---	0.00000	---

FA	EBC06R10B	ZCCL	EBC06R12	ZCCL	EBC07AE01	ZCCL	EBC07AE05	ZCCL	EBC07AR07	ZCCL
78	0.00000		0.00000		-12.00000		372.00000		-2403.00000	
79	0.00000	---	0.00000	---	-15.00000	25.0	0.00000	-100.0	-2547.18000	6.0
80	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-2700.01080	6.0
81	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-2862.01145	6.0
82	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-3033.73213	6.0
83	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-3215.75606	6.0
84	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-3408.70143	6.0
85	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-3613.22351	6.0
86	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-3830.01692	6.0
87	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-4059.81794	6.0
88	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-4303.40701	6.0
89	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-4561.61144	6.0
90	0.00000	---	0.00000	---	-15.00000	0.0	0.00000	---	-4835.30812	6.0

FA	EBC07AE08	ZCCL	EBC07AR10A	ZCCL	EBC07AR10B	ZCCL	EBC07AR14	ZCCL	EBC07AR18	ZCCL
78	-7.00000		0.00000		0.00000		0.00000		-56.00000	
79	-25.00000	257.1	0.00000	---	0.00000	---	0.00000	---	-60.00000	7.1
80	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-65.00000	8.3
81	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-65.00000	0.0
82	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-65.00000	0.0
83	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	7.7
84	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
85	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
86	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
87	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
88	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
89	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0
90	-25.00000	0.0	0.00000	---	0.00000	---	0.00000	---	-70.00000	0.0

FA	ESC07JR05	%ECL	ESC07JR07	%ECL	ESC07JR08	%ECL	ESC07JR10A	%ECL	ESC07JR10B	%ECL
78	39.00000		-49.00000		-18.00000		0.00000		0.00000	
79	0.00000	-100.0	-49.00000	0.0	-20.00000	11.1	0.00000	---	0.00000	---
80	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
81	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
82	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
83	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
84	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
85	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
86	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
87	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
88	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
89	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---
90	0.00000	---	-49.00000	0.0	-20.00000	0.0	0.00000	---	0.00000	---

FA	ESC07JR13	%ECL	ESC07JR14	%ECL	ESC07R10A	%ECL	ESC07R10B	%ECL	ESC08R02	%ECL
78	147.60000		0.00000		0.00000		0.00000		0.00000	
79	180.00000	7.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
80	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
81	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
82	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
83	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
84	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
85	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
86	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
87	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
88	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
89	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---
90	180.00000	0.0	0.00000	---	0.00000	---	0.00000	---	0.00000	---

FA	ESC08R04	%ECL	ESC08R05	%ECL	ESC08R07	%ECL	ESC08R08	%ECL	ESC08R10A	%ECL
78	-337.00000		-111.00000		-430.00000		0.00000		0.00000	
79	-340.00000	0.9	0.00000	-100.0	-760.00000	9.7	0.00000	---	0.00000	---
80	-340.00000	0.0	0.00000	---	-775.00000	10.7	0.00000	---	0.00000	---
81	-340.00000	0.0	0.00000	---	-850.00000	9.7	0.00000	---	0.00000	---
82	-340.00000	0.0	0.00000	---	-935.00000	10.0	0.00000	---	0.00000	---
83	-340.00000	0.0	0.00000	---	-950.00000	1.6	0.00000	---	0.00000	---
84	-340.00000	0.0	0.00000	---	-1045.00000	10.0	0.00000	---	0.00000	---
85	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---
86	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---
87	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---
88	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---
89	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---
90	-340.00000	0.0	0.00000	---	-1045.00000	0.0	0.00000	---	0.00000	---

FA	ESC08R10B	%ECL	ESC08R13	%ECL	ESC08R14	%ECL	ESC08R15	%ECL	ESC09R02	%ECL
78	0.00000		436.00000		0.00000		54.00000		0.00000	
79	0.00000	---	450.00000	3.2	0.00000	---	57.24000	6.0	0.00000	---
80	0.00000	---	450.00000	0.0	0.00000	---	60.67440	6.0	0.00000	---
81	0.00000	---	450.00000	0.0	0.00000	---	64.31486	6.0	0.00000	---
82	0.00000	---	450.00000	0.0	0.00000	---	68.17376	6.0	0.00000	---
83	0.00000	---	450.00000	0.0	0.00000	---	72.26419	6.0	500.00000	---
84	0.00000	---	450.00000	0.0	0.00000	---	76.60003	6.0	500.00000	0.0
85	0.00000	---	450.00000	0.0	0.00000	---	81.19603	6.0	500.00000	0.0
86	0.00000	---	450.00000	0.0	0.00000	---	86.06780	6.0	500.00000	0.0
87	0.00000	---	450.00000	0.0	0.00000	---	91.23185	6.0	500.00000	0.0
88	0.00000	---	450.00000	0.0	0.00000	---	96.70378	6.0	500.00000	0.0
89	0.00000	---	450.00000	0.0	0.00000	---	102.50812	6.0	500.00000	0.0
90	0.00000	---	450.00000	0.0	0.00000	---	108.65861	6.0	500.00000	0.0

FA	EDC07R05	%CL	EDC07R09B	%CL	EDC07R1CA	%CL	EDC07R1CB	%CL	EDC07R12	%CL
78	40.00000		1938.00000		0.00000		0.00000		0.00000	
79	0.00000	-100.0	2000.00000	3.2	0.00000	---	0.00000	---	0.00000	---
80	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
81	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
82	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
83	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
84	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
85	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
86	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
87	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
88	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
89	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---
90	0.00000	---	2000.00000	0.0	0.00000	---	0.00000	---	0.00000	---

FA	EDC07R16	%CL	EDC10AR02	%CL	EDC10AR05	%CL	EDC10AR09B	%CL	EDC10AR1CA	%CL
78	0.00000		1.00000		0.00000		674.00000		0.00000	
79	0.00000	---	1.00000	0.0	0.00000	---	504.00000	-25.2	0.00000	---
80	0.00000	---	1.00000	0.0	0.00000	---	650.00000	29.0	0.00000	---
81	0.00000	---	1.00000	0.0	0.00000	---	750.00000	15.4	0.00000	---
82	0.00000	---	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
83	3620.00000	---	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
84	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
85	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
86	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
87	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
88	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
89	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---
90	3620.00000	0.0	1.00000	0.0	0.00000	---	750.00000	0.0	0.00000	---

FA	EDC10AR1CB	%CL	EDC10BR02	%CL	EDC10BR05	%CL	EDC10BR1CA	%CL	EDC10BR1CB	%CL
78	0.00000		77.00000		-7.00000		0.00000		0.00000	
79	0.00000	---	77.00000	0.0	0.00000	-100.0	0.00000	---	0.00000	---
80	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
81	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
82	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
83	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
84	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
85	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
86	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
87	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
88	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
89	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---
90	0.00000	---	77.00000	0.0	0.00000	---	0.00000	---	0.00000	---

FA	EDC11AR09B	%CL	EDC11AR1CB	%CL	EDC11BR09B	%CL
78	-11088.00000		-7714.00000		7553.00000	
79	-13288.00000	22.9	-7714.00000	0.0	11168.00000	19.4
80	-18117.00000	21.2	-7714.00000	0.0	13925.00000	24.6
81	-18341.00000	0.0	-7714.00000	0.0	13955.00000	0.2
82	-24288.00000	30.4	-7714.00000	0.0	19035.00000	36.4
83	-31922.00000	31.5	-7714.00000	0.0	25610.00000	34.5
84	-39389.00000	23.0	-7714.00000	0.0	32200.00000	26.1
85	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0
86	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0
87	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0
88	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0
89	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0
90	-39389.00000	0.0	-7714.00000	0.0	32200.00000	0.0

FA	ESC11BR10A	%ECL	ESC11BR10B	%ECL	ESC11CR10A	%ECL	ESC11CR10B	%ECL	ESC11CR12	%ECL
78	0.00000		-34.00000		0.00000		-7.00000		0.00000	
79	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
80	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
81	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
82	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
83	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
84	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
85	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
86	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
87	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
88	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
89	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---
90	0.00000	---	-34.00000	0.0	0.00000	---	-7.00000	0.0	0.00000	---

FA	ESC12R07	%ECL	ESC13R07	%ECL	ESC14R13	%ECL	ESC16R10A	%ECL	ESC16R10B	%ECL
78	0.00000		-310.00000		0.00000		0.00000		0.00000	
79	0.00000	---	-318.00000	11.5	0.00000	---	0.00000	---	0.00000	---
80	0.00000	---	-569.00000	27.9	0.00000	---	0.00000	---	0.00000	---
81	0.00000	---	-523.00000	2.8	0.00000	---	0.00000	---	0.00000	---
82	0.00000	---	-528.00000	1.0	0.00000	---	0.00000	---	0.00000	---
83	0.00000	---	-555.10000	5.0	0.00000	---	0.00000	---	0.00000	---
84	0.00000	---	-1059.00000	10.0	0.00000	---	0.00000	---	0.00000	---
85	0.00000	---	-1104.00000	0.5	0.00000	---	0.00000	---	0.00000	---
86	0.00000	---	-1109.00000	0.5	0.00000	---	0.00000	---	0.00000	---
87	0.00000	---	-1114.00000	0.5	0.00000	---	0.00000	---	0.00000	---
88	0.00000	---	-1119.00000	0.4	0.00000	---	0.00000	---	0.00000	---
89	0.00000	---	-1125.00000	0.5	0.00000	---	0.00000	---	0.00000	---
90	0.00000	---	-1130.00000	0.4	0.00000	---	0.00000	---	0.00000	---

FA	ESC18R13	%ECL	ELC05R15	%ECL	ELC07AR15	%ECL	ELC07BR15	%ECL	ELC10AR12	%ECL
78	36.00000		0.00000		2.62417		6.98195		3.41118	
79	36.00000	0.0	1.00000	---	1.00000	-61.9	1.00000	-85.5	1.50000	-56.0
80	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
81	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
82	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
83	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
84	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
85	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
86	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
87	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
88	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
89	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0
90	36.00000	0.0	1.00000	0.0	1.00000	0.0	1.00000	0.0	1.50000	0.0

FA	ELC10BR16	%ECL	ELC11AR12	%ECL	ELC11BR14	%ECL
78	11.33526		7.45453		0.00000	
79	1.00000	-91.2	1.50000	-80.0	1.00000	---
80	1.00000	0.0	1.50000	0.0	1.00000	0.0
81	1.00000	0.0	1.50000	0.0	1.00000	0.0
82	1.00000	0.0	1.50000	0.0	1.00000	0.0
83	1.00000	0.0	1.50000	0.0	1.00000	0.0
84	1.00000	0.0	1.50000	0.0	1.00000	0.0
85	1.00000	0.0	1.50000	0.0	1.00000	0.0
86	1.00000	0.0	1.50000	0.0	1.00000	0.0
87	1.00000	0.0	1.50000	0.0	1.00000	0.0
88	1.00000	0.0	1.50000	0.0	1.00000	0.0
89	1.00000	0.0	1.50000	0.0	1.00000	0.0
90	1.00000	0.0	1.50000	0.0	1.00000	0.0

FA	ELCSFAR16	ZRCL	ELCFICR11	ZRCL	ELCT4R15	ZRCL	ELCFER12	ZRCL	FA308	ZRCL
78	8.33435		2.72895		4.04510		-6.18586		25.00000	
79	1.50000	-82.0	1.00000	-63.4	1.00000	-75.3	-1.50000	-75.8	27.00000	8.0
80	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	29.16000	8.0
81	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	31.49280	8.0
82	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	34.01222	8.0
83	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	36.73320	8.0
84	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	39.67186	8.0
85	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	42.84561	8.0
86	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	46.27326	8.0
87	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	49.97512	8.0
88	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	53.97312	8.0
89	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	58.29097	8.0
90	1.50000	0.0	1.00000	0.0	1.00000	0.0	-1.50000	0.0	62.95425	8.0

FA	PASEGFC73E	ZRCL	FCEOIL8	ZRCL	FEFR8F8	ZRCL	FXER8	ZRCL	FCP8	ZRCL
78	187.49550		12.70000		598648.00000		18.00000		141.57990	
79	196.87028	5.0	25.40000	100.0	618000.00000	3.2	19.44000	8.0	144.69371	2.2
80	206.71379	5.0	27.94000	10.0	595000.00000	-3.7	20.99520	8.0	147.87697	2.2
81	217.04948	5.0	30.73400	10.0	620000.00000	4.6	22.67482	8.0	151.13027	2.2
82	227.90195	5.0	33.80740	10.0	650000.00000	4.8	24.48880	8.0	154.45516	2.2
83	239.29705	5.0	37.18814	10.0	657000.00000	1.1	26.44791	8.0	157.85317	2.2
84	248.86893	4.0	40.90695	10.0	665000.00000	0.9	28.56374	8.0	161.32594	2.2
85	258.82369	4.0	44.99765	10.0	671000.00000	0.9	30.84884	8.0	164.87511	2.2
86	269.17664	4.0	49.49741	10.0	675000.00000	0.6	33.31674	8.0	168.50237	2.2
87	279.94370	4.0	54.44716	10.0	679000.00000	0.6	35.98209	8.0	172.20942	2.2
88	288.34201	3.0	59.89187	10.0	683000.00000	0.6	38.86065	8.0	175.99803	2.2
89	296.99227	3.0	65.88106	10.0	687000.00000	0.6	41.96950	8.0	179.86998	2.2
90	305.90204	3.0	72.46916	10.0	690300.00000	0.4	45.32706	8.0	183.82712	2.2

FA	FFEIR8	ZRCL	PWC758	ZRCL	BIR758	ZRCL	TC04EC9	ZRCL	TC05R09	ZRCL
78	76.66667		123.00000		1009.26230		0.11690		0.00078	
79	82.80000	8.0	137.76000	12.0	1059.72541	5.0	0.11900	1.8	0.00150	92.3
80	89.42400	8.0	154.29120	12.0	1112.71168	5.0	0.11900	0.0	0.00150	0.0
81	96.57792	8.0	172.80614	12.0	1168.34726	5.0	0.11900	0.0	0.00150	0.0
82	104.30415	8.0	193.54288	12.0	1226.76463	5.0	0.11900	0.0	0.00150	0.0
83	112.64849	8.0	216.76803	12.0	1288.10286	5.0	0.11900	0.0	0.00150	0.0
84	121.66036	8.0	238.44483	10.0	1352.50800	5.0	0.11900	0.0	0.00150	0.0
85	131.39319	8.0	262.28931	10.0	1420.13340	5.0	0.11900	0.0	0.00150	0.0
86	141.90465	8.0	288.51824	10.0	1491.14007	5.0	0.11900	0.0	0.00150	0.0
87	153.25702	8.0	317.37007	10.0	1565.69708	5.0	0.11900	0.0	0.00150	0.0
88	165.51758	8.0	349.10708	10.0	1643.98193	5.0	0.11900	0.0	0.00150	0.0
89	178.75899	8.0	377.03564	8.0	1726.18103	5.0	0.11900	0.0	0.00150	0.0
90	193.05971	8.0	407.19849	8.0	1812.49008	5.0	0.11900	0.0	0.00150	0.0

FA	TC06R09	ZRCL	TC07R09	ZRCL	TC07EC9	ZRCL	TC08R09	ZRCL	TC09R09	ZRCL
78	0.19160		0.15247		0.04802		0.15182		0.03454	
79	0.19400	1.3	0.13900	-8.8	0.04500	-6.3	0.13200	-13.1	0.02700	-21.8
80	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
81	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
82	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
83	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
84	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
85	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
86	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
87	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
88	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
89	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0
90	0.19400	0.0	0.13900	0.0	0.04500	0.0	0.13200	0.0	0.02700	0.0

(38)

FA	TC11AR07	%ECL	TC10IR07	%ECL	ZC11AR100	%ECL	ZC14I06	%ECL	ZC14I10	%ECL
78	0.00100		0.28102		-0.28028		0.25346		0.13787	
79	0.00100	-0.0	0.32800	12.7	-0.15000	-46.5	0.30000	18.4	0.15000	0.0
80	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
81	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
82	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
83	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
84	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
85	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
86	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
87	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
88	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
89	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0
90	0.00100	0.0	0.32800	0.0	-0.15000	0.0	0.30000	0.0	0.15000	0.0

Presented below is an energy balance table prepared based on actual values over 8-year period from 1971 to 1978 and forecast values of 1980, 1983, 1988 and 1990.

[illegible]

8－5－3 エネルギー・バランス表一覧

(1) 実 績 （1971年～1978年）

FAC 71	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B
B01	181.	65269.												
B02	0.	570.	1329.	1.	0.	1862.	19.	19.	0.	255.	0.	9.	0.	0.
B03	0.	-13313.	-7539.	-59.			0.	0.	0.	-1105.	0.	-6279.	-8.	-6285.
B04			-337.	0.	0.		-75.	-5.	-70.	-242.				
B05	-19.	69.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B06	136.	17889.	-8219.	-59.	0.	1862.	19.	19.	0.	-931.	0.	-6279.	-8.	-6286.
B07	-65.		-732.				-638.	-597.	-39.	-154.				
B08	0.		-11.				-13.	-1.	-12.	0.				
B09A		-18719.	87389.	2426.	216.	3950.	2222.	1556.	661.	3175.	0.	6271.	12.	6282.
B09B			0.								0.	0.	0.	
B10A	-23.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B10B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B11	11.		8754.	2662.	192.	3965.	1373.	882.	526.	1032.	0.	157.	3.	154.
B12	54.		9260.	0.		0.	773.	378.	395.	441.	0.	1.	1.	
B13	45.		3234.	2662.	192.		432.	368.	124.	547.		0.		
B14	0.		3969.			3965.	0.	0.	6.	0.		2.	2.	
B15			247.	0.	0.		203.	197.	6.	49.				
B16	0.		454.								0.	154.		154.

FAC 71	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
B01	4592.	4592.				0.	617.		78655.	37576.	109231.
B02									1898.		1898.
B03	0.		0.						-55552.		-55552.
B04									-337.		-337.
B05									22.		22.
B06	4592.	4592.	0.			0.	619.	1427.	17023.	37576.	54597.
B07						0.	-173.	411.	-1961.		-1855.
B08	19.	-31.		18.					5.		5.
B09A									-1330.		-1339.
B09B	-189.	-189.	0.						-184.		-261.
B10A	-1361.	-1361.	0.	0.				-27.	-1818.	0.	-1819.
B10B	-2912.	-2919.	0.	-3.		0.	-445.	-69.	-2972.	0.	-2972.
B11	174.	159.		15.				325.	9350.	37576.	45924.
B12	79.	79.		0.				143.	8487.	21510.	22897.
B13								0.	3270.	41.	3311.
B14	15.	0.		15.				141.	4564.	16025.	20681.
B15								41.	289.		268.
B16	79.	79.							233.		233.

FAC 72	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B
B01	147.	71270.												
B02	12.	112.	1984.	0.	15.	510.	0.	0.	0.	1339.	0.	42.	0.	97.
B03	0.	-54147.	-9791.	0.			0.	0.	0.	-791.	0.	-7960.	-4.	-8374.
B04			-220.	0.	0.		0.	0.	0.	-220.				
B05	17.	889.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B06	186.	26565.	-7827.	0.	15.	519.	0.	0.	0.	497.	0.	-8959.	-4.	-8954.
B07	-49.		-786.				-494.	-437.	-54.	-102.				
B08	-12.		-97.				-17.	-1.	-17.	0.				
B09A		-20365.	13557.	2183.	249.	3147.	2761.	1720.	1441.	2627.	343.	9220.	18.	9218.
B09B			0.								0.	0.	0.	
B10A	-326.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B10B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B11	87.		9778.	2122.	252.	4249.	1333.	1365.	543.	4118.	0.	237.	4.	231.
B12	51.		1514.	0.		0.	849.	431.	419.	655.	0.	2.	2.	
B13	20.		3522.	2122.	252.		765.	784.	82.	382.		0.		
B14	0.		4254.			4249.	0.	0.	0.	0.		4.	1.	
B15			254.	0.	0.		193.	179.	23.	63.				
B16	2.		231.								0.	231.		231.

FAC 72	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
B01	5718.	5718.				0.	547.		85719.	37931.	123718.
B02									2138.		2138.
B03	0.		0.						-69739.		-69739.
B04									-220.		-220.
B05									817.		817.
B06	5718.	5718.	0.			0.	547.	1022.	17275.	37931.	57226.
B07						0.	-359.	457.	-972.		-972.
B08	21.	-58.		21.					-8.		-8.
B09A									-420.		-428.
B09B	-253.	-253.	0.						-253.		-253.
B10A	-1289.	-1288.	0.	0.				-28.	-1343.	0.	-1383.
B10B	-3326.	-3331.	0.	-5.		0.	-129.	-68.	-3973.	0.	-3973.
B11	359.	334.		16.				353.	16593.	37931.	45554.
B12	187.	187.		0.				159.	1812.	19869.	21769.
B13								0.	3550.	17.	3569.
B14	18.	9.		16.				151.	4429.	18184.	22527.
B15								43.	237.		259.
B16	167.	167.							399.		379.

FAC 73	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B
B01	141.	97393.												
B02	3.	220.	2545.	0.	181.	439.	331.	331.	0.	1647.	0.	28.	0.	28.
B03	0.	-74356.	-12319.	0.			0.	0.	0.	-70.	0.	-12241.	-1.	-12242.
B04			-249.	0.	0.		0.	0.	0.	-249.				
B05	32.	284.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B06	175.	24271.	-9745.	0.	169.	439.	331.	331.	0.	1577.	0.	-12215.	-1.	-12214.
B07	-45.		-1023.				-913.	-842.	-66.	-115.				
B08	-3.		-21.				-21.	-1.	-20.	0.				
B09A		-24283.	23249.	2462.	282.	4503.	3155.	-2324.	871.	744.	293.	12379.	15.	12344.
B09B			0.								0.	0.	0.	
B10A	-13.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B10B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B11	83.		11313.	2345.	349.	4759.	2358.	1747.	812.	1252.	0.	249.	14.	234.
B12	43.		1835.	0.		0.	1885.	574.	587.	750.	0.	6.	6.	
B13	37.		3842.	2344.	349.		1317.	912.	75.	431.		0.		
B14	0.		4774.			4759.	0.	0.	0.	0.		8.	8.	
B15			427.	380.	0.		254.	220.	20.	71.				
B16	3.		235.								0.	234.		234.

FAC 73	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
B01	7655.	7655.				0.	699.		105787.	43124.	145973.
B02									2728.		2728.
B03	0.		0.						-86347.		-86347.
B04									-249.		-249.
B05									234.		234.
B06	7655.	7655.	0.			0.	479.	1759.	22447.	43184.	65431.
B07						0.	-193.	530.	-1229.		-1229.
B08	22.	-41.		22.					-2.		-2.
B09A									-914.		-914.
B09B	-273.	-273.	0.						-273.		-273.
B10A	-1555.	-1555.	0.	0.				-23.	-1572.	0.	-1572.
B10B	-5841.	-5835.	0.	-6.		0.	-137.	-85.	-5126.	0.	-5126.
B11	354.	314.		11.				429.	12175.	43184.	55359.
B12	187.	187.		0.				227.	2271.	23165.	25456.
B13								0.	3838.	5.	3845.
B14	18.	0.		18.				165.	4355.	19995.	24350.
B15								38.	663.		663.
B16	187.	187.							495.		495.

FAC 74	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B
B01	142.	188348.												
B02	1.	195.	2641.	0.	212.	1156.	458.	458.	0.	113.	0.	20.	0.	20.
B03	0.	-75133.	-8972.	-522.			0.	0.	0.	0.	0.	-9451.	-5.	-9435.
B04			-459.	-2.	-114.		-38.	-1.	-37.	-335.				
B05	-2.	-1558.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B06	142.	23289.	-7033.	-522.	212.	1156.	458.	458.	0.	143.	0.	-9383.	-5.	-9375.
B07	-57.		-825.				-238.	-657.	-74.	-95.				
B08	-1.		-23.				-23.	-1.	-22.	0.				
B09A		-24187.	23865.	2419.	265.	4335.	3867.	2876.	971.	1019.	445.	10265.	32.	10233.
B09B			0.								0.	0.	0.	
B10A	-18.	-545.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B10B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
B11	82.		13267.	2458.	451.	5419.	2875.	2343.	682.	1359.	0.	322.	32.	290.
B12	43.		1772.	0.		0.	917.	363.	554.	856.	0.	13.	13.	
B13	32.		5491.	2365.	419.		1859.	1743.	118.	443.		0.		
B14	0.		5531.			5419.	0.	0.	0.	0.		19.	19.	
B15			502.	285.	32.		269.	192.	12.	55.				
B16	2.		211.								0.	290.		290.

FAC 74	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
B01	2276.	2276.				0.	682.		148795.	44458.	153293.
B02									3035.		3035.
B03	0.		0.						-85955.		-85955.
B04									-459.		-459.
B05									-1558.		-1558.
B06	2276.	2276.	0.			0.	832.	1484.	24367.	44433.	65855.
B07						0.	-225.	528.	-1165.		-1163.
B08	22.	-41.		22.					-2.		-2.
B09A									-202.		-202.
B09B	-269.	-269.	0.						-265.		-265.
B10A	-2187.	-2187.	0.	0.				-28.	-2449.	0.	-2449.
B10B	-4518.	-4512.	0.	-6.		0.	-578.	-160.	-4443.	0.	-4443.
B11	378.	358.		15.				393.	24115.	44433.	58483.
B12	190.	199.		0.				189.	2184.	21072.	24721.
B13								0.	5124.	61.	5135.
B14	16.	1.		15.				176.	5722.	22630.	28322.
B15								28.	418.		418.
B16	187.	187.							465.		465.

EPDCS/SIDSIE

FAC 75)	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
001	192.	35562.													8917.	8917.				0.	871.		164511.	35916.	192657.
002	8.	922.	2795.	0.	467.	1278.	945.	945.	0.	35.	0.	69.	0.	69.									2923.		2923.
003	0.	-22759.	-8843.	-727.			0.	0.	0.	0.	-727.	-7389.	-6.	-7382.	0.		0.						-81692.		-81692.
004			-417.	-3.	-135.		-45.	-7.	-38.	-234.													-417.		-417.
005	-3.	-354.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.									-359.		-359.
006	191.	22569.	-8842.	-727.	487.	1278.	945.	945.	4.	34.	-727.	-7319.	-8.	-7313.	8917.	8917.	0.			0.	871.	2201.	25653.	35916.	63419.
007	-22.		-1254.				-988.	-241.	-64.	-345.										0.	-249.	411.	-1511.		-1571.
008	-3.		-21.				-21.	-1.	-15.	0.					20.	-47.		20.					-6.		-6.
009A		-21749.	21352.	2891.	109.	4354.	4537.	3587.	1020.	9655.	920.	7639.	58.	2587.									-369.		-340.
009B			3.								0.	0.	0.		-194.	-194.	0.						-179.		-179.
010A	-7.	-505.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1302.	-2398.	0.	0.				-35.	-2805.	0.	-2843.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-4339.	-1892.	0.	-4.		0.	-127.	-597.	-4776.	0.	-4171.
011	99.		14981.	2815.	597.	4222.	3771.	2818.	653.	1239.	0.	272.	49.	244.	557.	549.		13.				459.	16126.	38516.	54122.
012	45.		1942.	0.		0.	6139.	445.	695.	828.	0.	19.	19.		288.	254.		0.				233.	2534.	14822.	16556.
013	47.		5932.	2697.	515.		2371.	2223.	643.	395.		0.										0.	5879.	44.	5923.
014	0.		6270.			4222.	0.	0.	0.	0.		29.	29.		14.	1.		13.				264.	6439.	23149.	30437.
015			873.	319.	27.		261.	245.	18.	72.												32.	795.		765.
016	7.		249.								0.	249.		244.	249.	249.							439.		439.

FAC 76)	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
001	173.	110281.													11534.	11534.				0.	859.		123267.	38923.	161714.
002	1.	8451.	6649.	341.	559.	3065.	2702.	2593.	112.	0.	0.	53.	0.	53.									8279.		8279.
003	-8.	-98874.	-8148.	0.			0.	0.	0.	-79.	-65.	-7931.	0.	-7984.	0.		0.						-98231.		-98231.
004			-437.	-2.	-191.		-92.	-16.	-78.	-292.													-437.		-437.
005	-8.	-218.	-522.	59.	-6.	38.	-89.	-92.	2.	-134.	-227.	-145.	-1.	-145.									-816.		-818.
006	142.	21527.	-2083.	411.	543.	3034.	2612.	2411.	201.	-218.	-312.	-8378.	-1.	-8377.	11534.	11534.	0.			0.	859.	2332.	32023.	38923.	76946.
007	-21.		-2059.				-1827.	-1683.	-65.	-433.										0.	-224.	728.	-2152.		-2152.
008	-1.		-28.				-21.	-2.	-17.	0.					20.	-42.		28.					-2.		-2.
009A		-22028.	21699.	2732.	72.	4939.	3728.	2728.	1656.	2649.	287.	8267.	41.	8226.									-131.		-130.
009B			19.								0.	19.	19.		-3337.	-3337.	0.						-1318.		-1310.
010A	-3.	-448.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-2812.	-2842.	0.	0.				-34.	-3541.	0.	-3541.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-4758.	-4742.	0.	-8.		0.	-576.	-118.	-4849.	0.	-4859.
011	84.		18884.	3145.	587.	4824.	4455.	3456.	1808.	1417.	0.	255.	59.	198.	655.	593.		12.				828.	17923.	38923.	56126.
012	34.		2698.	0.		0.	1657.	857.	757.	1659.	0.	24.	24.		321.	321.		0.				389.	3422.	11770.	15192.
013	49.		5581.	2819.	539.		2223.	2413.	168.	337.		0.										0.	5181.	34.	4817.
014	0.		6835.			4824.	0.	0.	0.	0.		35.	35.		14.	2.		12.				224.	2122.	27118.	34249.
015			948.	348.	28.		543.	523.	26.	69.												35.	979.		979.
016	92.		198.								0.	196.		198.	270.	270.							478.		478.

FAC 77)	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
001	222.	123270.													19613.	19613.				0.	817.		143322.	39260.	183139.
002	0.	5768.	3920.	29.	630.	1020.	2147.	1931.	248.	0.	0.	52.	11.	41.									9858.		9878.
003	-7.	-17251.	-12839.	0.			0.	0.	0.	-933.	-1150.	-3556.	-447.	-9589.	-1233.		-1233.						-118561.		-118561.
004			-570.	-2.	-154.		-83.	-15.	-48.	-338.													-570.		-570.
005	-14.	2815.	305.	-49.	-29.	-155.	23.	-85.	69.	187.	136.	272.	0.	272.									2356.		2356.
006	201.	34189.	-7836.	30.	481.	825.	2149.	1855.	314.	-787.	-1919.	-7469.	-465.	-9155.	19369.	19613.	-1233.			0.	817.	3349.	45561.	39288.	84769.
007	-22.		-2471.				-2002.	-1983.	-59.	-917.										0.	-227.	997.	-2457.		-2457.
008	0.		-23.				-21.	-5.	-34.	0.					28.	-83.		28.					-4.		-4.
009A		-39307.	38441.	3581.	82.	4235.	5448.	4283.	1174.	3769.	1819.	9727.	53.	9734.									-842.		-842.
009B			474.								224.	474.	474.		-3424.	-5415.	1581.						-2739.		-2739.
010A	-5.	-124.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-4285.	-4235.	0.	0.				-39.	-4762.	0.	-4762.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-8838.	-8211.	0.	-7.		0.	-580.	-111.	-9342.	0.	-9342.
011	111.		18876.	3588.	613.	7577.	5135.	3655.	1278.	1872.	0.	324.	44.	249.	1424.	1412.		12.				725.	21858.	39288.	60271.
012	51.		3259.	0.		0.	2119.	1052.	1049.	1143.	0.	28.	28.		733.	734.		0.				435.	4179.	9182.	13641.
013	48.		4712.	3188.	549.		2188.	2284.	178.	432.		0.										0.	4752.	34.	4788.
014	0.		7643.			7577.	0.	0.	0.	0.		38.	38.		18.	2.		12.				251.	7388.	30869.	37915.
015			954.	347.	44.		551.	511.	49.	58.												39.	993.		993.
016	20.		241.								0.	249.		249.	472.	472.							937.		937.

FAC 78)	EBC01	EBC02	EBC03	EBC04	EBC05	EBC06	EBC07	EBC07A	EBC07B	EBC08	EBC09	EBC10	EBC10A	EBC10B	EBC11	EBC11A	EBC11B	EBC11C	EBC11D	EBC12	EBC13	EBC14	EBC15	EBC16	EBC17
001	250.	115570.													34327.	34327.				0.	1241.		151414.	33192.	186876.
002	0.	6224.	3659.	3.	652.	898.	2024.	2024.	0.	0.	0.	81.	0.	77.									9893.		9893.
003	-30.	-92568.	-115313.	0.			0.	0.	0.	-651.	-2227.	-3875.	-657.	-8218.	-7519.		-7519.						-111829.		-111829.
004			-889.	-9.	-203.		-48.	-12.	-56.	-337.													-859.		-829.
005	-42.	-552.	46.	-122.	18.	-85.	415.	377.	39.	-199.	45.	-7.	0.	-7.									-520.		-528.
006	188.	32882.	-2798.	-119.	819.	813.	2439.	2120.	38.	-493.	-2187.	-8737.	-652.	-8147.	22839.	34327.	-7519.			0.	1241.	4482.	43129.	33192.	85121.
007	-76.		-3893.				-2452.	-2483.	-49.	-632.										0.	-349.	1117.	-3289.		-3289.
008	0.		-25.				-25.	-2.	-38.	0.					20.	-45.		20.					-4.		-4.
009A		-32025.	31471.	3743.	25.	8134.	4921.	4303.	1538.	4242.	1184.	9378.	58.	9320.									-354.		-354.
009B			2612.								1338.	874.	874.		-4335.	-11888.	7553.						-1724.		-1728.
010A	-8.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-1.	0.	0.	8550.	-8580.	0.	0.				-49.	-8620.	0.	-8820.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	-7721.	-7214.	-34.	-7.		0.	-133.	-154.	-7875.	0.	-7875.
011	195.		21238.	3920.	231.	8425.	5737.	4336.	1481.	1651.	0.	518.	88.	436.	2239.	2225.		14.				923.	24545.	39492.	63997.
012	59.		3830.	0.		0.	2471.	1231.	1184.	1349.	0.	32.	32.		1139.	1139.		0.				574.	5511.	4268.	11882.
013	20.		2483.	3644.	677.		2192.	2687.	167.	436.		0.										0.	2422.	34.	2508.
014	0.		8555.			8425.	0.	0.	0.	0.		48.	48.		16.	2.		14.				362.	8873.	33168.	42848.
015			873.	265.	54.		579.	577.	54.	54.												62.	1020.		1029.
016	27.		438.								0.	436.		438.	1888.	1888.							1547.		1547.

(2) 予　測　（1980年, 1983年, 1988年, 1990年）

FAC 80)	EXC01	EXC02	EXC03	EXC04	EXC05	EXC06	EXC07	EXC07A	EXC07B	EXC08	EXC09	EXC10
001	710.	118600.										
002	0.	8220.	9996.	871.	1134.	3876.	4514.	3858.	125.	0.	0.	81.
003	-30.	-96982.	-15392.	0.						-3249.	-2757.	-11249.
004			-693.	0.	-270.		-80.	-15.	-65.	-340.		
005	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
006	40.	33922.	-6892.	871.	864.	3816.	3934.	3873.	60.	-1589.	-2757.	-11059.
007	-302.		-3524.				-2747.	-2703.	-41.	-775.		
008	0.		-45.				-45.	-25.	-20.	0.		
009A		-33670.	33242.	1597.	51.	6532.	4195.	4699.	1515.	4444.	989.	11104.
009B			2654.								2050.	650.
010A	-8.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
011	290.		24231.	4978.	915.	11428.	7335.	5828.	1507.	2930.	0.	555.
012	227.		4569.	0.		0.	2989.	1760.	1254.	1567.	0.	37.
013	41.		9350.	4578.	842.		3528.	3343.	180.	450.		
014	0.		12650.			11428.	0.	0.	0.	0.		82.
015			1269.	369.	72.		817.	775.	72.	61.		
016	30.		495.								0.	495.

FAC 80)	EXC10A	EXC10B	EXC11	EXC11A	EXC11B	EXC11C	EXC11D	EXC12	EXC13	EXC14	EXC15	EXC16	EXC17
001			33766.	33766.				0.	1817.		155189.	42551.	197652.
002	0.	77.									16220.		16220.
003	-614.	-10425.	-13891.		-13891.						-120221.		-120221.
004											-693.		-690.
005	0.	0.									0.		0.
006	-619.	-10548.	24975.	33766.	-13891.			0.	1817.	4415.	50499.	42551.	92969.
007								0.	-502.	1325.	-4378.		-4390.
008			-45.	-54.		9.					-99.		-90.
009A	61.	11044.									-420.		-420.
009B	650.		-4492.	-18417.	13925.						-1842.		-1842.
010A	0.	0.	-5495.	-5055.	0.	0.					-5355.	0.	-5355.
010B	0.	0.	-7755.	-7710.	-31.	-7.		0.	-1397.	-199.	-7954.	0.	-7959.
011	180.	435.	2680.	2685.		2.				1126.	35343.	42551.	72891.
012	39.		1375.	1375.		0.				747.	6917.	3620.	10535.
013										0.	9439.	35.	9475.
014	82.		5.	2.		2.				318.	10319.	35876.	49726.
015										63.	1343.		1343.
016		435.	0337.	0337.							1834.		1834.

FAC 83)	EXC01	EXC02	EXC03	EXC04	EXC05	EXC06	EXC07	EXC07A	EXC07B	EXC08	EXC09	EXC10
001	1844.	031820.										
002	0.	12432.	12397.	1343.	1569.	5693.	4877.	4764.	133.	0.	585.	81.
003	-30.	-97349.	-16924.	0.						-2926.	-65.	-14113.
004			-835.	0.	-410.		-85.	-15.	-70.	-349.		
005	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
006	1834.	44287.	-4242.	1343.	1159.	5483.	4812.	4747.	63.	-2346.	415.	-14732.
007	-1321.		-9715.				-3765.	-3216.	-49.	-559.		
008	0.		-45.				-45.	-25.	-29.	0.		
009A		-44835.	48859.	5312.	47.	8657.	9203.	6284.	2637.	5592.	1265.	14728.
009B			2759.								2050.	750.
010A	-8.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
011	545.		38286.	4478.	1226.	13747.	9715.	7713.	2063.	2575.	3429.	719.
012	453.		8445.	0.		0.	4349.	2610.	1723.	2653.	0.	51.
013	22.		12854.	4374.	1126.		4200.	1324.	190.	450.		
014	0.		13834.			13747.	0.	0.	0.	0.		87.
015			1643.	389.	100.		1871.	1871.	160.	72.		
016	30.		4220.								3429.	639.

FAC 83)	EXC10A	EXC10B	EXC11	EXC11A	EXC11B	EXC11C	EXC11D	EXC12	EXC13	EXC14	EXC15	EXC16	EXC17
001			50775.	50775.				0.	1929.		186419.	51027.	237446.
002	0.	77.									25445.		25445.
003	-598.	-14117.	-25858.		-25854.						-142171.		-142171.
004											-835.		-835.
005	0.	0.									0.		0.
006	-892.	-14519.	24919.	50775.	-25854.			0.	1920.	6591.	69358.	51027.	120355.
007								0.	-555.	1827.	-5439.		-5458.
008			-45.	-55.		10.					-79.		-79.
009A	89.	14549.									-547.		-547.
009B	750.		-5932.	-31022.	25859.						-3182.		-3182.
010A	0.	0.	-7618.	-7818.	0.	0.					-7874.	0.	-7874.
010B	0.	0.	-7755.	-7710.	-34.	-7.		0.	-1424.	-279.	-8929.	0.	-8829.
011	938.	639.	3571.	3549.		3.				1553.	43926.	51027.	94353.
012	51.		1827.	1827.		0.				1868.	9791.	2063.	11854.
013										0.	12174.	34.	12212.
014	87.		5.	3.		3.				850.	14237.	45928.	83167.
015										87.	1738.		1739.
016		639.	1739.	1739.							5989.		5959.

FAC 88)	EXC01	EXC02	EXC03	EXC04	EXC05	EXC06	EXC07	EXC07A	EXC07B	EXC08	EXC09	EXC10
001	2729.	134880.										
002	0.	12438.	24879.	4162.	2455.	9443.	8518.	7865.	653.	0.	560.	81.
003	-30.	-93196.	-20676.	0.						-1540.	-381.	-18727.
004			-1679.	0.	-465.		-85.	-15.	-70.	-340.		
005	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
006	2747.	55852.	4193.	4162.	1799.	9443.	8433.	7650.	583.	-1920.	119.	-18548.
007	-2254.		-4157.				-1352.	-1383.	-49.	-1885.		
008	0.		-45.				-45.	-25.	-20.	0.		
009A		-55320.	54894.	6618.	83.	10726.	10239.	7728.	2582.	7339.	1541.	18337.
009B			2750.								2050.	750.
010A	-8.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
011	497.		55434.	10778.	1873.	26450.	14246.	11254.	3616.	3687.	3526.	1841.
012	453.		10592.	0.		0.	6551.	4272.	2179.	3569.	0.	81.
013	9.		18197.	10878.	1718.		5473.	5293.	183.	450.		
014	0.		26598.			26450.	0.	0.	0.	0.		183.
015			2196.	389.	157.		1842.	1685.	157.	97.		
016	30.		4439.								3629.	819.

FAC 88)	EXC10A	EXC10B	EXC11	EXC11A	EXC11B	EXC11C	EXC11D	EXC12	EXC13	EXC14	EXC15	EXC16	EXC17
001			42923.	42923.				0.	3991.		265413.	72170.	272457.
002	0.	77.									37327.		37327.
003	-632.	-17415.	-32688.		-32686.						-145988.		-115988.
004											-1679.		-1859.
005	0.	0.									0.		0.
006	-620.	-17418.	28457.	42923.	-32686.			0.	3991.	9531.	96241.	72170.	168418.
007								0.	-1119.	2859.	-5543.		-5543.
008			-45.	-54.		10.					-99.		-99.
009A	188.	18237.									-286.		-286.
009B	250.		-4597.	-39389.	32780.						-3939.		-3939.
010A	0.	0.	-9310.	-9310.	0.	0.					-5570.	0.	-5570.
010B	0.	0.	-7755.	-7710.	-34.	-7.		0.	-2072.	-429.	-8184.	0.	-8184.
011	222.	819.	5649.	5446.		4.				2430.	64261.	72174.	136375.
012	81.		2811.	2691.		0.				8788.	15149.	952.	16497.
013										0.	18121.	34.	18157.
014	188.		7.	0.		4.				589.	21187.	21181.	92368.
015										137.	2533.		2533.
016		819.	2751.	2751.							2220.		2220.

FAC 90)	EXC01	EXC02	EXC03	EXC04	EXC05	EXC06	EXC07	EXC07A	EXC07B	EXC08	EXC09	EXC10
001	3670.	138180.										
002	0.	12448.	33259.	4241.	2583.	12920.	11260.	10039.	1179.	0.	540.	81.
003	-30.	-94598.	-39456.	0.						-1694.	-381.	-17981.
004			-1230.	0.	-815.		-85.	-15.	-70.	-349.		
005	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
006	3649.	55452.	13218.	4241.	2618.	12920.	11115.	10415.	1109.	-1834.	119.	-17793.
007	-3373.		-8687.				-1834.	-1835.	-49.	-1885.		
008	0.		-45.				-45.	-25.	-20.	0.		
009A		-55659.	54391.	6618.	83.	10726.	10239.	7728.	2592.	7339.	1541.	18337.
009B			2750.								2050.	750.
010A	-8.	-252.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
010B	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
011	437.		43977.	12658.	2181.	23415.	18818.	12283.	3533.	4189.	3623.	1187.
012	453.		11858.	0.		0.	8219.	5489.	3170.	3542.	0.	97.
013	4.		21657.	12558.	1990.		8859.	5871.	183.	450.		
014	0.		23781.			23415.	0.	0.	0.	0.		167.
015			2738.	389.	183.		2118.	1763.	183.	169.		
016	30.		4544.								3620.	924.

FAC 90)	EXC10A	EXC10B	EXC11	EXC11A	EXC11B	EXC11C	EXC11D	EXC12	EXC13	EXC14	EXC15	EXC16	EXC17
001			43415.	43415.				0.	4139.		269343.	83419.	292762.
002	0.	77.									45292.		45292.
003	-519.	-17319.	-32688.		-32645.						-144742.		-146748.
004											-1230.		-1230.
005	0.	0.									0.		0.
006	-588.	-17313.	34749.	43415.	-32655.			0.	4130.	11192.	107587.	83419.	193924.
007								0.	-1135.	3558.	-10735.		-10735.
008			-45.	-54.		11.					-99.		-99.
009A	188.	11237.									-286.		-288.
009B	750.		-4489.	-39389.	32780.						-3939.		-3939.
010A	0.	0.	-9512.	-9512.	0.	0.					-9272.	0.	-9272.
010B	0.	0.	-7755.	-7710.	-34.	-7.		0.	-2130.	-584.	-8259.	0.	-8259.
011	261.	924.	6710.	6741.		4.				2639.	74158.	83419.	157435.
012	97.		3453.	3453.		0.				2034.	17770.	743.	18512.
013										0.	21151.	36.	21187.
014	167.		0.	0.		0.				489.	24429.	82690.	107119.
015										159.	2097.		2097.
016		924.	3288.	3288.							2869.		2869.