

SES6-CT-2003-502705

RENEW – Renewable fuels for advanced powertrains

Integrated Project  
Sustainable energy systems

## **Deliverable D 5.3.9 Macroeconomic assessment**

Due date of delivery: 36/2006  
Actual transmission date:  
Start date of project: 01-01-04  
Duration: 48 months



Christoph Lanhenke, Alexander Vogel, Daniela Thrän  
Institute for Energy and Environment (D)

Revision 0

Draft 1

<b>Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)</b>		
<b>Dissemination Level</b>		
<b>PU</b>	Public	<b>X</b>
<b>PP</b>	Restricted to other programme participants (including Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

**Contact Institute for Energy and Environment (IEE)**

Dipl.-Vw., Bw. (VWA) Christoph Lanhenke

☎: +49 (0) 341 / 24 34 - 422

✉: **christoph.lanhenke@ie-leipzig.de**

Dr.-Ing. Daniela Thrän

☎: +49 (0) 341 / 24 34 - 435

✉: **daniela.thraen@ie-leipzig.de**

Dr.-Ing. Alexander Vogel

☎: +49 (0) 341 / 24 34 - 537

✉: **alexander.vogel@ie-leipzig.de**

**CONTENT**

ABBREVIATIONS.....	IV
1 MACROECONOMICS.....	1
1.1 Object.....	1
1.2 Effects.....	1
2 BASIC ASSUMPTIONS AND DATABASE .....	3
2.1 Biomass Conversion.....	3
2.2 Biomass Production.....	8
2.3 Biomass / Biofuel Transport .....	8
2.4 Biofuel Distribution.....	9
3 ANALYTICAL FRAMEWORK .....	9
3.1 Input-Output Accounting .....	9
3.2 Cost Structure Analysis.....	11
3.3 Input-Output Model.....	13
4 RESULTS.....	14
4.1 Cost Structures .....	14
4.2 Macroeconomic Effects.....	18
5 SUMMARY .....	24
REFERENCES.....	26
ANNEX.....	27

**ABBREVIATIONS**

a	annum
BtL	Biomass to liquid
CFB	Circulating Fluidized Bed
CPA	Statistical Classification of Products by Activity in the European Economic Community
CtL	Coal to liquid
ESA	European System of National and Regional Accounts
EU	European Union
FT	Fischer Tropsch
GDP	Gross domestic product
GtL	Gas to liquid
h	hour
ha	hectare
km	kilometer
mio.	million
MW	Megawatt
MWh	Megawatt hour
SP	Subproject
SRC	Short rotation coppice
t	tonne
tkm	tonne kilometer
UK	United Kingdom

# 1 MACROECONOMICS

## 1.1 Object

Macroeconomics as a sub-field of economic theory analyses the supply and demand on markets in aggregate measures, i. e. it deals with the behaviour of an economic sector or the economy as a whole. Markets considered by macroeconomics are generally the goods-, the labour- and the capital market. Important indicators describing aggregate measures concerning the production and the employment within an economy are the GDP (Gross domestic product) and the (un-) employment rate. Both production and employment are connected insofar as only economic growth, i. e. additionally generated value added, leads to supplementary jobs.

Microeconomics - in contrast to the macroeconomic perspective - deals with the single economic view. Due to the fact that macroeconomic events are finally the results of the coactions of single economic units (households, corporations) macro- and microeconomics are closely linked. Thus the GDP is the sum of the single economic values added and the national employment rate is based on the individual corporate labour input.

Economists try to understand the complex interdependent economic system by creating and using models. This approach enables the analyst to focus on the relevant facts of a case while disregarding unimportant details. To draw the right conclusions it is essential to adjust the applied model to the specific problem discussed. In this context special attention should be paid to the required simplifications and assumptions made.

Macroeconomic events affect the wealth of a nation and thus the economic situation (income) of every individual member of the society. For these reasons it is explainable that macroeconomic issues play a major role in economic policy and therefore in policy in general.

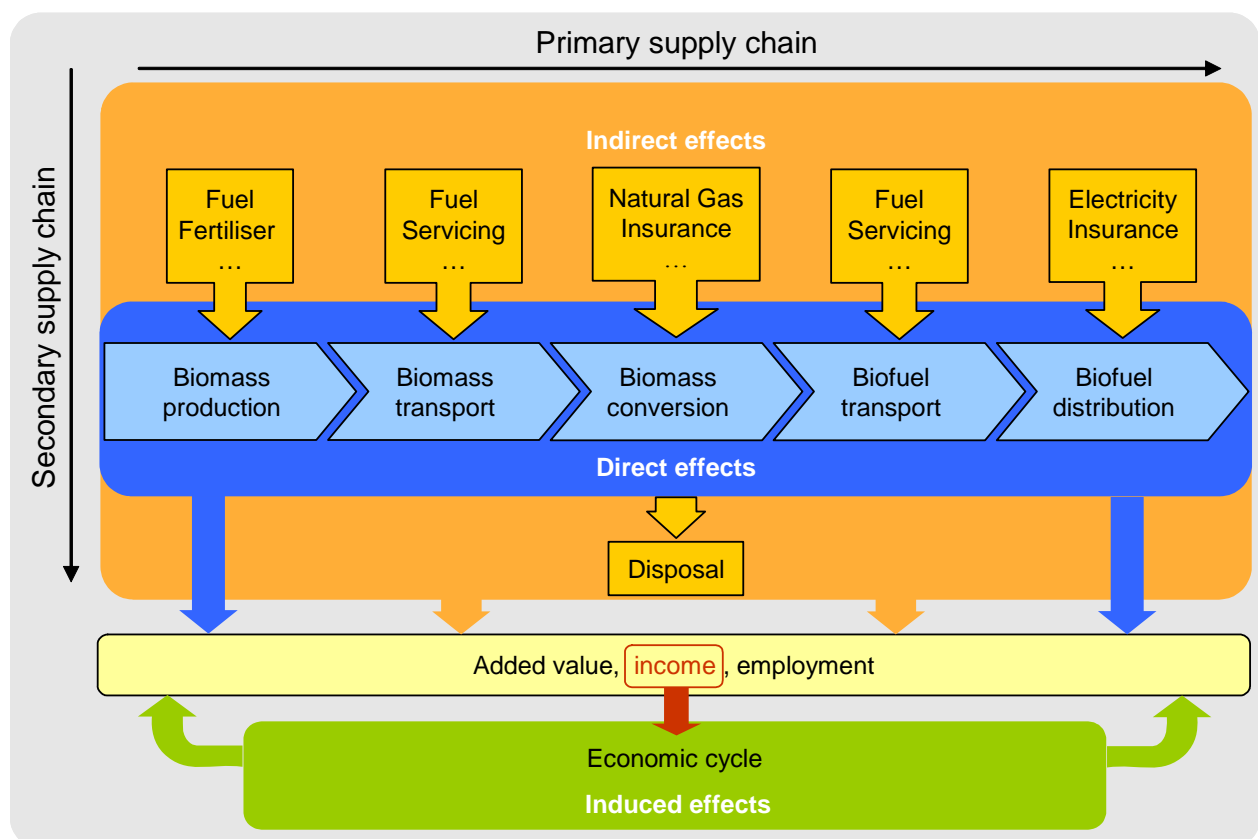
Within the RENEW-Project this paper attempts to elaborate the contribution the production and distribution of BtL-fuels makes to the economies output and employment.

## 1.2 Effects

The production process in modern industrialised economies is characterised by a high level of division of work and so is the BtL-fuel production process well to tank. Hence for a complete macroeconomic assessment of the impacts arising from the market launch of an innovative

product as BTL-fuel it is necessary to analyse the direct macroeconomic effects as well as the indirect and induced effects.

For this reason firstly the primary supply chain must be defined. The primary supply chain well to tank comprises the separate process steps biomass production, biomass transport, biomass conversion, biofuel transport and biofuel distribution. Due to the different production activities every process steps generates value added, employment and income, which are summarised as direct effects (Figure 1-1).



**Figure 1-1: Macroeconomic effects of the BTL-Production**

Furthermore each of the process steps of the primary supply chain needs intermediate inputs from other industries, which in turn purchase intermediate inputs from their suppliers. Thus indirect effects of first-, second-, ... and  $n^{\text{th}}$  order result, whereas the range of the effects is declining. These intermediate input relations are defined as the secondary supply chain. The effects (value added, employment and income) arising from the secondary supply chain are counted as indirect effects.

People working for the production of BTL-fuels or the supply industries receive incomes. A part of these incomes is used for consumer spending, i. e. a backflow of incomes to the

economic cycle takes place. The resulting additional demand generates further value added, employment as well as income and leads to so called induced effects.

To quantify not only the direct but also the indirect and induced effects the macroeconomic theory offers the analytical framework of input-output accounting. The basis of this methodical approach is an input-output model adjusted to the BtL-fuel production supply chain well to tank.

## **2 BASIC ASSUMPTIONS AND DATABASE**

For the adjustment of an input-output model to the specific topic the boundary conditions and a great number of assumptions have to be made. Some of the required assumptions have already been made elsewhere in the context of the project others have to be made in the following according to the demands of the used method.

This chapter gives a review of the project boundary conditions and the acceptance, further specification or deviation of this framework in regard to the process steps needed to produce BtL-fuels.

Basically the investigation on regional level is exemplarily restricted to the regions North, East and West with its representative states Sweden, Poland and Germany instead of taking all 6 European regions defined (North, East, South, West, Alpine and UK islands) into consideration. The reason for it is on the one hand the fact that the investigated standard biomass defined later on in the text is not an indicative energy crop species in the South (D 5.3.1, S.24). On the other hand the Alpine and UK islands are expected to have the same cost level than the North and West and would not lead to deeper macroeconomic insights (D 5.3.1, S.21).

### **2.1 Biomass Conversion**

Starting point for the macroeconomic assessment is the biomass conversion. The biomass conversion is the central process step within the primary supply chain determining the up- and downstream processes. In the context of the project the following concepts should be analysed (D 5.3.1):

- The cEF-D concept (centralized Entrained Flow Gasification),
- The CFB-D concept (Circulating-Fluidized-Bed Gasification),
- The ICFB-D concept (Internal-Circulating-Fluidized-Bed Gasification),

- The dEF-D concept (decentralized Entrained-Flow Gasification),
- The BLEF-DME (Black-Liquor-Entrained-Flow Gasification).

A detailed description of these conversion technologies can be found in D 5.4.2.2.

First of all these concepts have to be checked with regard to their applicability for a complete supply chain analysis as needed for calculating value added and job effects in a comparable way. This will be done according to the aspects methodically applicability as well as data availability. For the first mentioned aspect a continuous description of the biomass conversion system elements

- pre-treatment,
- gasification,
- gas conditioning,
- synthesis and
- fuel conditioning

is essential.

*The cEF-D concept.* The cEF-D concept contains all process steps needed for the production of BtL-fuels. Beside this a comprehensive database is available due to the “Questionnaire for assessment of conversion technologies” surveyed by IEE and ESU for SP5 in general. So the applicability of the cEF-D concept for a complete value added chain analysis can be stated as given.

*The CFB-D concept.* The CFB-D concept discontinue after the synthesis. For the production of the actual fuel an external refinery is intended. In this case the production of BtL-fuels goes along with the refinement of conventional raw products, i. e. it can be characterised as a mixed process. Therefore the generated value added cannot be assigned to the biofuel production completely. To specify the value added share belonging to the biofuel production, complex procedures of internal cost allocation would be needed. Furthermore the biofuel raw product need not pass through all process steps of a conventional refinery. This also has to be taken into consideration when trying to specify the biofuel value added share. For these reasons the corporate (microeconomic) data for intermediate inputs, consumption of fixed capital and value added cannot be used without further calculations as stated above.



Because of the described interruption in the value added chain and due to missing operational data for conventional refineries to close this gap, the CFB-D concept is not applicable for macroeconomic assessment so far.

*The ICFB-D concept.* The ICFB-D concept also refers to an external processing of the biofuel raw product. The outcome of this is the same conclusion as for the CFB-D concept.

*The dEF-D concept.* The dEF-D concept describes the biofuel production system elements up to the gasification. For the upstream processes the concept developer refers to already existing large-scale systems engineering in the field of CtL (Coal to Liquid) and GtL (Gas to Liquid). In contrast to both concepts before the finishing takes place at the same site and is exclusively used for biofuel production. Therefore the concept complies with the requirements of a continuous process chain and can be stated as applicable for a further macroeconomic investigation in principle.

In this case the central issue is the missing operational database for the upstream processes following the gasification. Due to that a further investigation of the dEF-D concept is not possible as well.

*The BLEF-DME concept.* The BLEF-DME concept is an exception within the considered conversion technologies. It is an integrated concept directly connected to a pulp mill. The pulp mill delivers so called “black liquor” as input for the gasification. In return the backflow of so called “green liquor”, a by-product of the fuel production, is used as input by the pulp mill. As for the CFB-D and ICFB-D concept the BLEF-DME concept requires an internal cost allocation to specify the value added of the biofuel production. For example it has to be checked which share of biomass input accounts for the paper production and which to the fuel generation. In the same way it has to be pointed out which internal transfer prices are assumed for “black-“ and “green-liquor”.

All in all also the BLEF-DME concept has to be evaluated negatively concerning its applicability for this macroeconomic assessment.

In consideration of both methodically applicability and data practicability, the different concepts can be reviewed as shown in Figure 2-1.

**Table 2-1: Review of available conversion technologies**

Concept	Methodically applicability	Data practicability*
cEF-D	+	+
CFB-D	-	-
ICFB-D	-	-
dEF-D	+	-
BLEF-DME	-	-

\*for a continuous value added chain analysis

Therefore, as reference-concept for the following investigations, the cEF-D concept will be regarded to. The design of the assumed conversion plant follows the overall defined conversion plant conventions (SP5-Partners):

- biomass input: 500 MW,
- physical lifetime: 20 a,
- operating time: 8.000 h/a.

Plant locations investigated are Sweden, Poland and Germany. For Germany a scenario analysis for 100 % and 50 % domestic biomass supply will be conducted, containing a best, reference and worst scenario (Table 2-1). Benchmark for the scenario classification (best, reference and worst) is the need for subsidisation. Thus the best-scenario requires the lowest subsidisation and the worst-scenario the highest. Factors being varied in this context are all cost positions within the cost accounting exceeding 10 mio. € per year

For Sweden and Poland only a reference-scenario on the basis of 100 % domestic biomass production will be taken into consideration (Table 2-2).

The assumptions made for the scenario analysis based on project data (biomass prices), literature data, expert talk, country specific enquiries and statistically based data.

**Table 2-2: Assumptions for the scenario analysis for Germany**

Source: D 5.3.1; D 5.3.4; KGS 2003; KTBL 2006a; Muth 2007; Pohl 2006; Rudloff 2007; own calculations and assumptions IEE

<b>Domestic biomass supply</b>		50/100		
<b>Scenarios*</b>		<b>Best</b>	<b>Reference</b>	<b>Worst</b>
<b>Cost-effective</b>				
Number of employees	Persons	120	110	100
Compensation of employees	€/a	50.000	50.000	50.000
Maintenance	% of Invest	2,5	3	3,5
Costs of capital	% of Invest	5	10	15
Wood chips 70 % DM (domestic share)	€/t	55,1	64,7	75,5
Transport (domestic share)	€/tkm	0,11	0,12	0,13
Wood chips 70 % DM (imports)	€/t	47,4	57,6	67,9
Transport (imports)	€/tkm	0,05	0,06	0,07
<b>Revenues</b>				
FT-diesel (consumer price)	€/l	1,35	1,25	1,15
Naphtha	€/t	600	400	200
Electricity	€/MWh	100	50	10

\*relating to conversion plant

**Table 2-3: Assumptions for the scenario analysis for Sweden and Poland**

Source: D 5.3.4; EUROSTAT; Pohl 2006; own calculations and assumptions IEE

<b>Domestic biomass supply</b>		100	
<b>Scenarios*</b>		<b>North (SE)</b>	<b>East (PL)</b>
<b>Cost-effective</b>			
Number of employees	Persons	110	110
Compensation of employees	€/a	50.000	35.000
Maintenance	% of Invest	3	3
Costs of capital	% of Invest	10	10
Wood chips 70 % DM	€/t	67,3	57,6
Transport	€/tkm	0,12	0,06
<b>Revenues</b>			
FT-diesel (consumer price)	€/l	1,32	1,10
purchase tax	%	25	22
petroleum tax	€/l	0,4	0,3
Naphtha	€/t	400	400
Electricity	€/MWh	50	50

\*relating to conversion plant

As previously indicated the “Questionnaire for assessment of conversion technologies” is the central database for the later cost structure analysis, containing information about all relevant material flows and quantities.

Further it is assumed, that the produced quantity of biofuel can be sold completely, so no inventory increase and decrease respectively is included.

## 2.2 Biomass Production

In the context of the project the cEF-D conversion technology is based on the usage of woody biomass. As standard biomass willow-salix chips have been defined. The required quantity of biomass will be cultivated as short rotation coppice (SRC). For this, different scenarios of an agricultural production system have been defined. The following investigation is based on the future scenario, assuming a 100 ha intensive agricultural farm representative for all regions (D 5.3.1). Despite this standardised assumption different biomass production cost levels for the considered regions exist. The resulting biomass prices are reflected in the scenario assumptions defined in chapter 2.1 (Table 2-1 and Table 2-2). However, the project internal calculated “Energy Crop Production Costs in the EU” (D 5.3.4) do not allow deeper insights in the intermediate input structure as it is needed for the determination of the value added. According to that also for the biomass production additional literature data (KTBL 2006a; KTBL 2006b) has been used to specify the cost- and intermediate input structure respectively.

## 2.3 Biomass / Biofuel Transport

As the production of biomass and biofuel as well as the distribution takes place at different locations, transports to and from the conversion plant are necessary. Therefore transport options and distances have to be defined. An example matrix combining possible and reasonable options and distances for transportation was outlined before in the project and is shown in Table 2-3.

**Table 2-4: Example-Matrix of biomass provision cost for wood chips**

Source: D 5.3.1

		Transport distance in km				
Option		<30	30-50	50-100	100-200	>200
tractor	€/km					
truck	€/km					
train	€/km					
ship	€/km					
pipeline	€/km					

White field: transport option not meaningful

For the following investigations the truck transport option will be taken into consideration. The assumed average distances are 150 km one-way between field and conversion plant and 100 km one-way between conversion plant and filling station. Again, to achieve deeper insights in the intermediate input structure of the transport sector, additional literature data has

been used (KGS 2003). The resulting transport prices are reflected in the scenario assumptions defined in chapter 2.1 (Table 2-1 and Table 2-2).

## **2.4 Biofuel Distribution**

For the biofuel distribution the already existing network of filling stations is assumed. Due to comparable characteristics of conventional and FT- Diesel the integration of the new fuel is unproblematic. Within the following investigation it is assumed that the biofuel is distributed as premium diesel at a price level above that of conventional diesel. The resulting biofuel prices are reflected in the scenario assumptions defined in chapter 2.1 (Table 2-1 and Table 2-2).

Starting point of the determination of the biofuel prices are consumer prices, i. e. the prices customers have to pay at the filling station including all taxes. This is the assumed price that can be realised on the fuel market. From this value the net purchase price (that equals the sales price free conversion plant) is derived by subtracting taxes and the amount of cost coverage. If this price is below the production costs a subsidisation requirement emerges, that is attributed to the conversion plant.

## **3 ANALYTICAL FRAMEWORK**

### **3.1 Input-Output Accounting**

The model describing the production process of BtL-fuels well to tank is based on the concept of input-output accounting. This analytical framework follows the methods and concepts of the European System of National and Regional Accounts (ESA 95) that is obligatory for all European Union Member States. The relevant official statistical data of the sectoral economic structure is available within the input-output accounting of the central European statistical office EUROSTAT.

This analysis refers to tables of 2002 for Germany and 2000 for Sweden and Poland, which are the current available data. The tables are structured into 59 economic branches. The latest data available concerning the labour input for Poland are of 1995.

One of the system's main features is the symmetric input-output table. A symmetric input-output table is a matrix describing the domestic production processes and the transactions in products of the national economy in great detail (EUROSTAT 1996). Input-output tables identify the flows of goods and services between economic branches (intermediate inputs)

within a consistent calculation schema, complying with specific accounting equations. So, for each economic sector the total inputs must equal the total outputs.

The symmetric input-output table can be integrated into macroeconomic models to provide the latter with a detailed meso-economic foundation. Specific types of analysis served by the symmetric input-output table are, for example (EUROSTAT 1996):

- analysis of production, cost structures and productivity;
- analysis of employment.

The calculations can show direct as well as indirect and induced effects. With the aid of some assumptions, estimates of the size of such indirect (and induced) effects can be deduced from the symmetric input-output tables. Examples of common assumptions are (EUROSTAT 1996):

- a constant input structure in terms of values;
- a constant composition of the value of output by industry and by product;
- a constant composition of the value of final consumption expenditure of households by product.

By modeling BtL-fuel production within the framework of input-output accounting, also for the new branch and the new process steps respectively, the consistency of the calculation schema can be assured. Therefore the integration of the new branch requires a set of adjustment and coordination steps to cope with the demands of the concept of the ESA 95.

Another advantage of this approach is the possibility of the integration of additional (non-statistical) data in an already existing framework using the strength of the concept as the already mentioned consistency of the described flows of goods and services.

The macroeconomic effects caused by the production of BtL-fuels rely on the investments in the biofuel production infrastructure (short rotation farming, biomass and fuel transportation, distribution) and the production facilities within the construction phase as well as on current payments for intermediate inputs within the operating phase of every process step. In this study only the operating phase is taken into consideration because only this phase leads to continuously effects while the construction phase causes only singular effects.

Based on those current payments within the operating phase, which are separately investigated within the cost structure analysis, the gross value added and the gross employment effects will be estimated.

The gross value added is a figure of the national and industrial economics and describes the economic performance of a company, an economic branch and a national economy (GDP = Gross Domestic Product) as well, gained by specific production and service activities over a certain period. So the value added presents the contribution of a certain production system to the national income (that equals the GDP) realised by market activities (D 5.3.1). The gross value added can be determined according to two different methods, the subtraction- and the addition method, by the following formulas:

- gross value added = revenues – intermediate inputs;
- gross value added =  $\sum$  factor costs  
= wages + salaries + leasing expenses + interests + profits + depreciations.

The gross employment effect is characterised by disregarding the substitution effect and the budget effect. The former describes the effect that BtL-fuels replace conventional fuels and in this way value added and employment in the traditional fuel sector get lost. The latter is the outcome of higher production costs of BtL-fuels compared to that of conventional fuels. Thus the amount of this cost difference is no longer available for consumer spending. According to this the production, value added, employment and income is declining in other branches of the economy.

If under the given assumptions the costs for the production of BtL-fuels exceed the revenues a subsidisation requirement emerge. Following the classifications of the ESA 95 as type of subsidy “subsidies on production” are assumed. This kind of subsidy lowers the value added and therefore has to be taken into consideration when interpreting the results.

### **3.2 Cost Structure Analysis**

Within an input-output table the cost structure of a new supply chain is determined by the demand for intermediate inputs from other branches and the extent of own value added generated within the process steps of the chain. As the complete BtL-fuel production is assumed to be destined for the domestic final use the intermediate input supply can be disregarded.

For the transformation of corporate cost accounting data into industry data (micro-macro link) numerous classifications and attributions are necessary.

First the corporate cost elements are divided into intermediate inputs and value added components. Following the conventions of the ESA 95 the value added contains the components:

- Compensation of employees,
- Other net taxes on production,
- Consumption of fixed capital,
- Operating surplus, net.

Intermediate inputs are classified according to the “Statistical Classification of Products by Activity in the European Economic Community, 2002 version” (CPA 2002). In high aggregated form the economy comprises 17 product groups (Table 3-1).

**Table 3-1: Product groups in high aggregated form according to CPA 2002**

*Source: [http://ec.europa.eu/eurostat/ramon/index.cfm?TargetUrl=DSP\\_PUB\\_WELC](http://ec.europa.eu/eurostat/ramon/index.cfm?TargetUrl=DSP_PUB_WELC), 09.08.2007*

CPA-Code	Products
A	PRODUCTS OF AGRICULTURE, HUNTING AND FORESTRY
B	FISH AND OTHER FISHING PRODUCTS; SERVICES INCIDENTAL TO FISHING
C	PRODUCTS FROM MINING AND QUARRYING
D	MANUFACTURED PRODUCTS
E	ELECTRICAL ENERGY, GAS, STEAM AND WATER
F	CONSTRUCTION WORK
G	WHOLESALE AND RETAIL TRADE SERVICES; REPAIR SERVICES OF MOTOR VEHICLES, MOTORCYCLES AND PERSONAL AND HOUSEHOLD GOODS
H	HOTEL AND RESTAURANT SERVICES
I	TRANSPORT, STORAGE AND COMMUNICATION SERVICES
J	FINANCIAL INTERMEDIATION SERVICES
K	REAL ESTATE, RENTING AND BUSINESS SERVICES
L	PUBLIC ADMINISTRATION AND DEFENCE SERVICES; COMPULSORY SOCIAL SECURITY SERVICES
M	EDUCATION SERVICES
N	HEALTH AND SOCIAL WORK SERVICES
O	OTHER COMMUNITY, SOCIAL AND PERSONAL SERVICES
P	SERVICES OF HOUSEHOLDS
Q	SERVICES PROVIDED BY EXTRA-TERRITORIAL ORGANIZATIONS AND BODIES

For the following analysis a more detailed classification is used including 59 product groups. It is a result of a deeper disaggregation of the 17 basic product groups shown above.

In sum both components the intermediate input and the value added make the output of the new process steps and the whole supply chain respectively. As according to the conventions of the ESA 95 the total input equals the total output the intermediate inputs of the new supply chain matches the output of the supply industries.

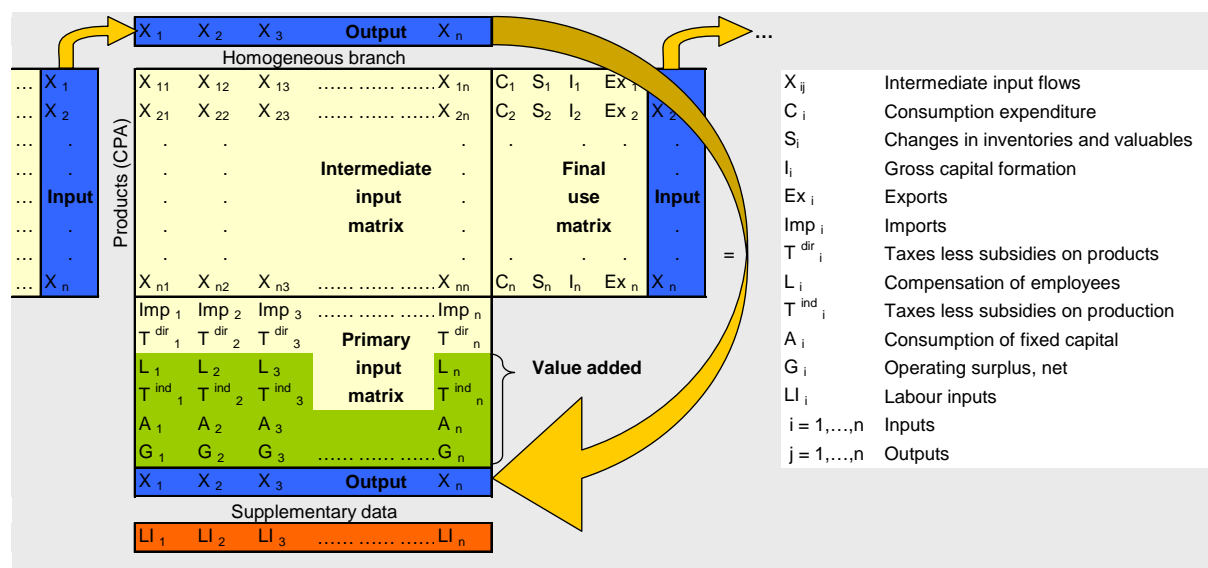
According to the attribution of the corporate cost elements to the value added components the total value added of the new supply chain is a direct result of the cost structure analysis. Furthermore the analysis of the intermediate inputs offers as a result the intermediate input



vector needed as input data for the input-output model for the estimation of the indirect and induced effects. The direct employment effects are also an additional result of the cost structure analysis resulting from the given database. They are not model-based calculated with the aid of productivities.

### 3.3 Input-Output Model

As stated before a result of the cost structure analysis is the intermediate input vector of the new supply chain. Within the input-output model this vector is used to determine the indirect and induced effects (Figure 3-1).



**Figure 3-1: Simplified schema of the input-output model**

For this in a first step the input-output table in absolute numbers has to be transformed to input coefficients specifying the cost structure of an industry in percentage rates. With the aid of vector analytical operations the indirect value added effects over all pre-stages of production can be estimated and accumulated. The resulting employment effects are calculated by use of labour productivities.

In a further step the induced effects can be estimated. For this purpose the domestic purchasing power is derived from the sum of the total amounts of direct and indirect compensation of employees. This is to be carried out by subtracting social insurance contributions, taxes and savings as well as the amount of purchasing power used to buy imported goods and services. Based on the vector representing the final consumption

---

expenditure by households, which is part of the official input-output table, the induced value added and employment effects can be calculated.

## **4 RESULTS**

### **4.1 Cost Structures**

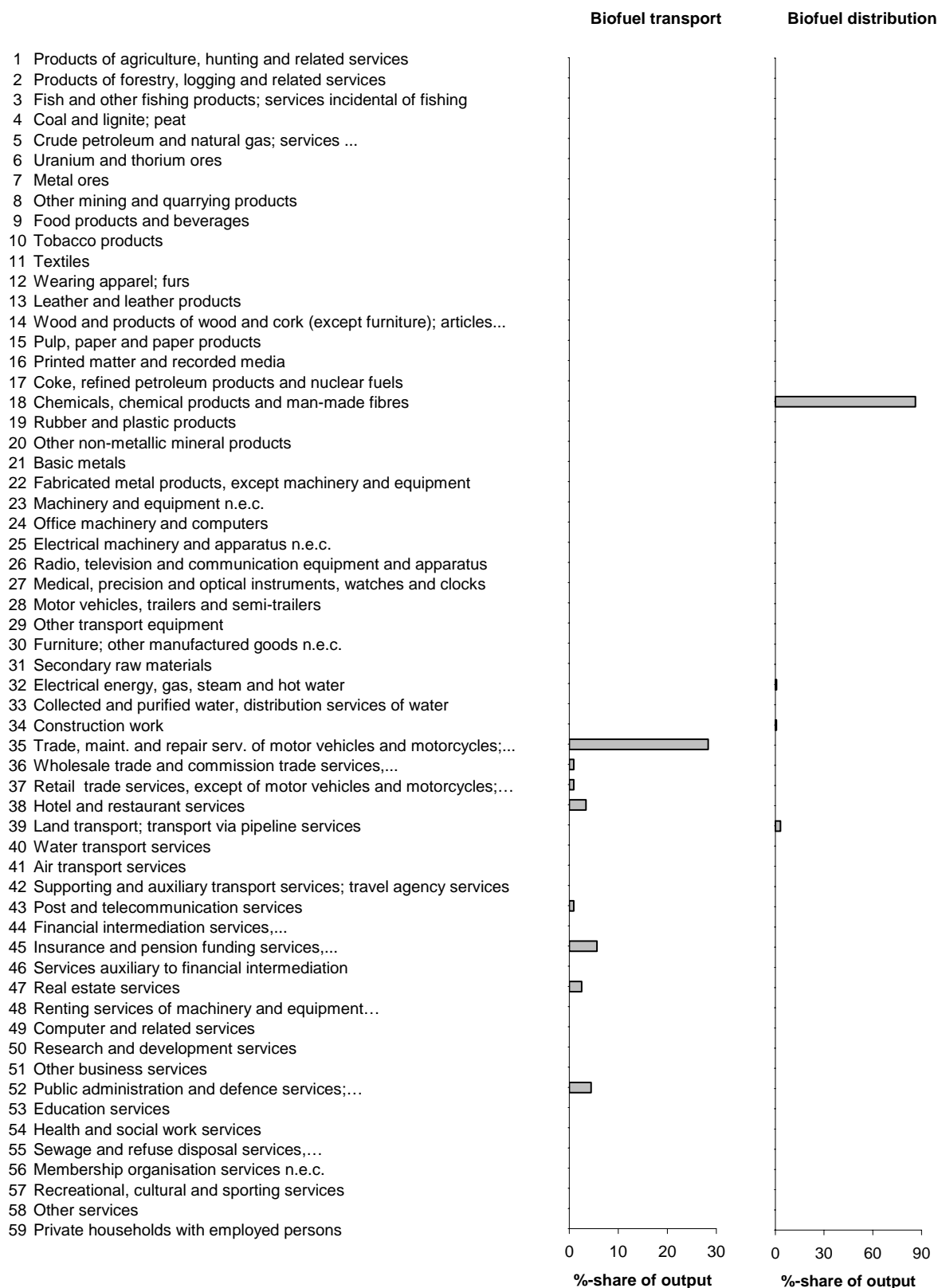
Relating to the proceeding described in chapter 3.2 and based on the basic assumptions and database defined in chapter 2 as well as on the conventions of the input-output accounting (chapter 3.1) the process step specific cost structure evolve. The cost structures for the BtL-fuel production process steps well to tank for Germany are illustrated with the following figures (Figure 4-1 - Figure 4-3). The total cost structure (intermediate input vector) of the primary supply chain is the result of the aggregation of the specific cost structures. For the detailed numerical data for all regions and scenarios see Annex Table A-1 to Table A-8.



**Figure 4-1: Cost structure of the operating phase of biomass production and transport for Germany**



**Figure 4-2: Cost structure of the operating phase of the biomass conversion plant with 50 % and 100 % domestic biomass input for Germany**



**Figure 4-3: Cost structure of the operating phase of BtL-fuel transport and distribution for Germany**

## 4.2 Macroeconomic Effects

The evaluation of the model calculations is regarded separately for the scenario analysis for Germany and an international comparison with the also considered EU Member States Sweden and Poland as representative states for the regions North and East.

Considering the given conditions and assumed parameters (cp. Table 2-1 and Table 2-2) the following results for the different scenarios arise from the model calculations.

### *Plant Location: Germany; Biomass supply: 50 % domestic*

Under these circumstances the total value added amounts in a range from 127 mio. €/a in the best case scenario over 98 mio. €/a in the reference case scenario down to 69 mio. €/a in the worst case scenario. Thus, the best case value added exceeds the worst case value added about almost 85 %. This is primarily caused by the direct value added effects. While the direct value added amounts to 69 mio. €/a within the best case it decreases to 32 mio. €/a within the reference case and actually reaches a negative value of -4 mio. €/a. Compared to that the values for the indirect and induced value added ranging from 38 - 50 mio. €/a and 20 - 24 mio. €/a have a considerably lower width. It can be noticed that the indirect and induced value added in the best case is at its lowest developing in the opposite direction than the direct value added. The reason for the declining and in the worst case becoming negative direct value added is the increasing subsidisation requirement increasing from 25 mio. €/a (best case) over 84 mio. €/a (reference case) to 143 mio. €/a (worst case). With purchase prices becoming higher, sales prices getting lower and worsen basic assumptions (cp. Table 2-1 and Table 2-2) the costs exceed the revenues more and more and the ability of the producer to cover the factor costs (cp. chapter 3.1) is declining. At the end, i. e. in the worst case, the revenues are not even sufficient to pay for all the intermediate inputs needed so that the value added becomes negative. As stated above (cp. chapter 3.1) it is assumed that the difference between costs and revenues has to be balanced by the payment of subsidies, which are highest in the case of a negative value added.

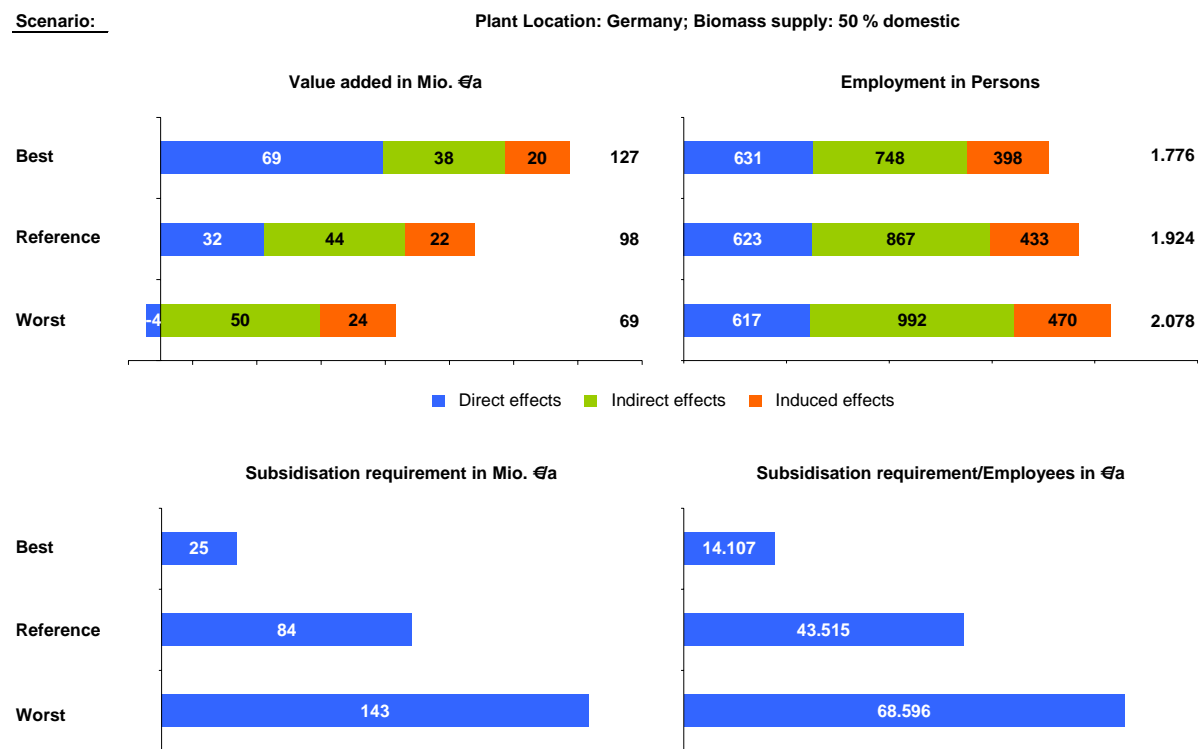
Cost drivers within the BtL-fuel supply chain are the biomass and the transport. Though the price differences per unit (€/t; €/tkm) are not very large at first sight the large amounts needed lead to such rapidly increasing subsidisation requirement.

For the results of the employment effect calculation the situation is another. The sum of employed persons in the best case scenario is the lowest at a number of 1.776. Within the

reference case the number of employees is at a level of 1.924 and is further increasing to 2.078 in the worst case scenario. In all cases the indirect employed persons represent the largest share of total employees. As for the calculated value added the indirect and induced employment effects develop in the opposite direction than the direct effects. It is to note that, with an increasing number of total employees, the number of direct employed persons is declining while the number of indirect und induced employees increases. The reasons for this development are as above increasing production costs which on the one hand lower the number of direct employees. On the other hand the demand for intermediate inputs and consequently the number of indirect employed persons increases. From this it follows that increasing direct and indirect, caused by the increasing number of indirect employees, incomes lead to an increasing number of induced employed persons. The values for the employment multiplier, i. e. the number of indirect and induced employment caused by one direct employed person, are in a range from 1,8 to 2,4. To average one person employed within the primary supply chain of BtL-fuel production (cp. Figure 1-1) causes 2,1 additional jobs.

The movement of employment and subsidisation requirement goes in the same direction whereas the latter have a more rapidly growth. Accordingly the subsidisation requirement per employee increases from 14.107 €/a in the best case over 43.515 €/a in the reference case up to 68.596 €/a in the worst case.

The described results are summarised and illustrated in Figure 4-4.



**Figure 4-4: Results of the scenario calculation for Germany, 100 % domestic biomass supply**

***Plant Location: Germany; Biomass supply: 100 % domestic***

The descriptions and explanations given for the 50 % domestic biomass supply scenario also apply for the 100 % scenario in an analogous manner but on a higher level. This is caused by the complete self-sufficient production of the biomass needed and the accordingly 100 % domestic share of biomass transports. Beginning with the conversion plant the primary supply chain remains the same in a quantitative way. Mentionable for this scenario is the fact that even in the worst case the value added does not become negative. The employment multiplier reaches values between 1,7 and 2,3, i. e. to average one person employed within the primary supply chain of BtL-fuel production causes 2,0 additional jobs. Also mentionable is the differing picture concerning the subsidisation requirement per employee. While exceeding the 50 % best case value only marginal, the values for the reference and worst case are significantly below the 50 % level.

The values and ratios for the 100 % scenario in detail are shown in Figure 4-5.





**Figure 4-5: Results of the scenario calculation for Germany, 100 % domestic biomass supply**

***Country comparison; Reference case; Biomass supply: 100 % domestic***

The following step deals with the comparison of the results of the model estimations for the regions North, East and West represented by the countries of Sweden, Poland and Germany. Baseline scenario for the calculations is the 100 % domestic biomass supply reference case for each country. Complementary to the assumptions made above (Table 2-2) the social insurance contributions, the tax and savings rates as well as the amounts of purchase power used to buy imported goods and services are considered as same in the regions investigated, which is important for the estimation of the induced effects.

Under these terms and conditions Germany has the largest value added with an amount of 151 mio. €/a followed by Poland and Sweden with a value added of 140 mio. €/a and 136 mio. €/a respectively. According to the type of effect Germany denotes the lowest direct value added at a level of 61 mio. €/a. The highest direct value added can be observed for Poland with 75 mio. €/a. Sweden has a direct value added of 72 mio. €/a. But as for the interpretation above the estimated subsidisation requirement has to keep in mind lowering the direct value added.

Unlike Germany has the highest indirect value added at 59 mio. €/a. Poland's indirect value added amounts to 49 mio. €/a and Sweden has an indirect value added of 42 mio. €/a. For this, i. e. a low direct and parallel high indirect value added or vice versa, two explanations seem to be reasonable. Due to higher/lower production costs along the primary supply chain the demand for intermediate inputs rises/declines, causing increasing/decreasing value added within the secondary supply chain. Another reason may be the different economic structure in the countries considered. The Polish economy is agriculturally-based, the German industrially-based and the Swedish service-based. These different structures go along with different import quotas for the respective goods. Therefore a primary supply chain mainly based upon industrial intermediate inputs leads to higher indirect value added within an industrially-based economy than in economies focused on agriculture and services.

Also in need of an explanation is the fact that Poland has the lowest induced value added while the sum of direct and indirect value added is the highest within the country comparison. This is due to the low level of salaries and wages paid in Poland. Accordingly low is the part of the income disposable for consumer spending and as a result the induced value added.

In turn the low level of salaries and wages in Poland is the expression of the low productivity in this country, which is also the explanation for the significant high employment effects caused by indirect (7.250 persons) and induced (2.878 persons) employment. Compared to the lowest employment values estimated for Sweden with 794 indirect and 382 induced persons, Poland reaches an almost ten times higher level of indirect and induced employment. With values of 1.193 direct and 616 induced employees Germany ranges in front of Sweden but far behind Poland. For Germany and Sweden the employment figures reflect the value added figures. Both countries are characterised by a high productivity.

The nearly constant values for direct employment around 930 persons are the result of the uniform assumptions made for the primary supply chain.

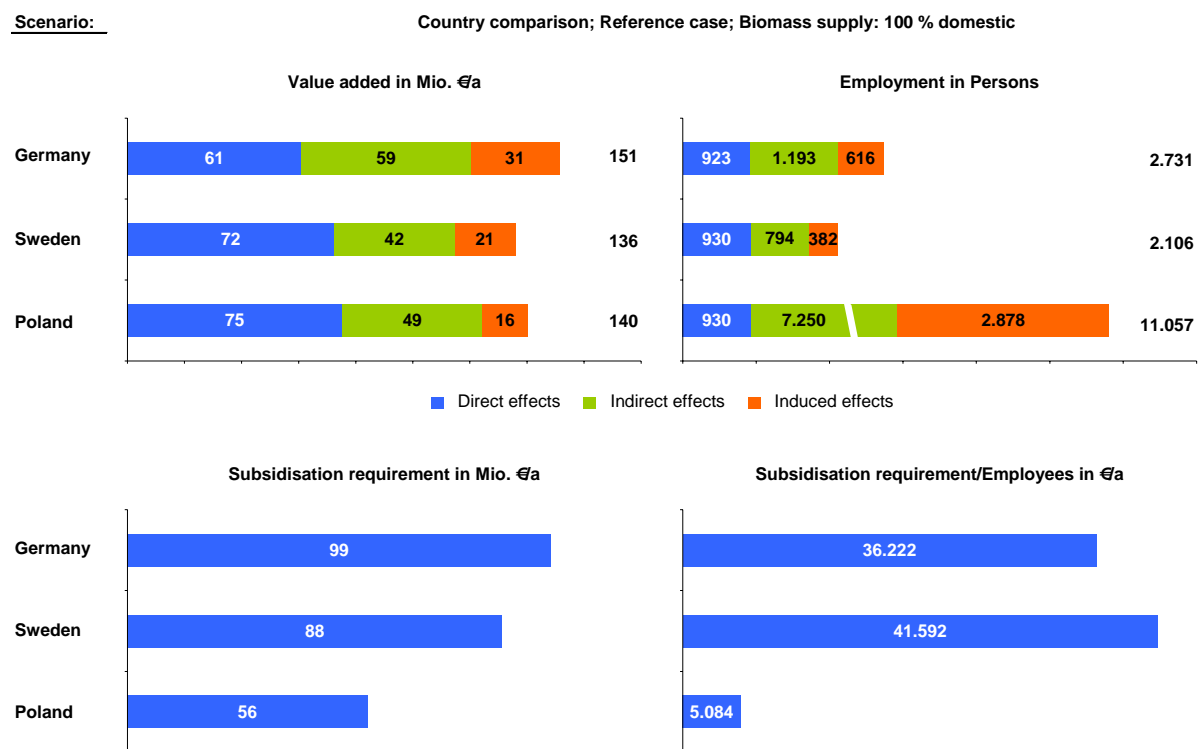
The employment multiplier ranges from 1,3 for Sweden to 2,0 for Germany and 10,9 for Poland. So, in Poland one person employed within the primary supply chain of BtL-fuel production causes almost 11 additional jobs.

As indicated above the subsidisation requirement increases with decreasing direct value added. With an amount of almost 100 mio. €/a Germany has the highest subsidisation requirement followed by Sweden and Poland at an amount of 88 mio. €/a and 56 mio. €/a

respectively. These differences arise from higher net sales prices at the filling station in Sweden and Poland due to a higher fuel price level (Sweden) and lower taxes (Poland). A higher net sales price at the filling station allows a higher sales price at the conversion plant and thus lowers the subsidisation requirement because of an improved cost coverage.

The subsidisation requirement per Employee reflects the just described results. For Poland the per head ratio amounts 5.084 €/a and is far below of that of Germany amounting 36.222 €/a while that of Sweden exceeds the value for Germany by more than 5.000 €/a.

A detailed review of the country comparison is given in Figure 4-6.

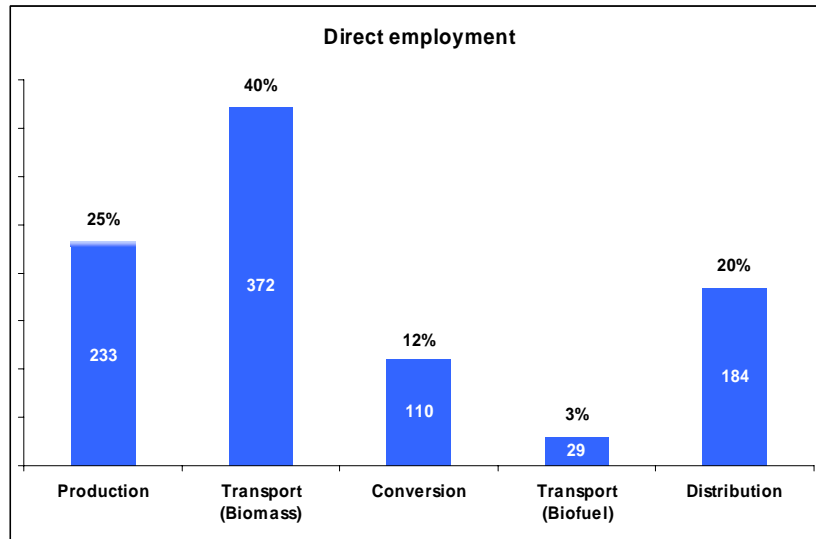


**Figure 4-6: Results of the scenario calculation for Sweden and Poland in comparison with Germany, 100 % domestic biomass supply**

Considering the extraordinary high employment effects and the comparable low subsidisation requirement one could come to the conclusion to focus the European BtL-production on Poland. However, for the future a convergence process for Poland is assumed increasing the labour productivity to a higher level in 2020. Due to this such exceptionally high indirect and induced employment effects cannot be expected for 2020.

### *Country comparison; Reference case; direct employment*

As mentioned above the direct employment is at a level of 930 persons. With the aid of the detailed analysis of the primary supply chain a further subdivision concerning the employment by process steps is possible (Figure 4-7).



**Figure 4-7: Direct employment in persons and percentage by process steps**

Most of the jobs are established within the transport industry. Representing 40 % of the direct employment the biomass transport industry offers not only the highest value but also the highest potential for innovation and cost reduction. For instance a biomass specific optimized logistics chain using alternative or new transport options and reducing the transport distances could possibly lead to a changing number of employees.

Compared to the transport industry the labour input of the other process steps can be seen as relatively fixed. They already have a high technological standard or are assumed to have within the scenarios defined for the project. As a result the labour productivity for those process steps is supposed to vary only marginal in the future.

## **5 SUMMARY**

The analysis of the macroeconomic effects of the complete supply chain for the production of BtL-fuels well to tank is a complex issue making high demands on the methodical approach as well as the data availability and preparation. Due to that within the accomplished investigations not all project intended parameter and regional variations could have been

taken into consideration. Nevertheless the analysis at hands gives an impression of the macroeconomic effects caused by the BtL-fuel production and their influencing factors. The following conclusions can be drawn:

- Under the given and assumed circumstances the production of BtL-fuels is far away from competitiveness at present. Even in the best case scenario calculated for Germany it depends on financial support.
- The reasons for the emerging subsidisation are on the one hand the high costs for production and transportation of biomass as well as the high investment costs of the conversion plant causing high depreciations and capital costs. On the other hand the consumer price for FT-diesel is on a level which is in consideration of the tax rates too low to ensure a cost-covering production.
- The amount of indirect and induced employment effects depends on the structure of the economy. Factors influencing the structure are the sectoral orientation (agriculturally-, industrially- or service-based), the productivity and the external trade relations (import quota)
- In all cases the indirect and induced employment effects exceed the direct effects. This effect is most evident for Poland, which has the highest employment multiplier (and the by far lowest productivity) causing almost 11 additional jobs per direct employee.
- Compared to the number of employees the subsidisation requirement increases disproportionate and thus also the subsidisation requirement per employee.

**REFERENCES**

- D 5.3.4 WP5.3 Deliverable D 5.3.4 “Energy crop production cost in the EU”. Lund University Sweden.
- D 5.3.1 WP 5.3 Deliverable D 5.3.1 “Definition of boundary conditions” Report on Methodology for the Analysis of the Economic Impacts of Biofuel Production in Europe. IEE Germany; EC BREC Poland; Lund University Sweden.
- EUROSTAT 1996 EUROSTAT (1996): Europäisches System volkswirtschaftlicher Gesamtrechnungen - ESVG 1995. Luxemburg: Amt für Amtliche Veröffentlichungen der Europäischen Gemeinschaften.
- KGS 2003 Kostensätze, Gütertransport, Straße (KGS) (2003): Unverbindliche Kostensätze für Gütertransporte auf der Straße. Düsseldorf: Verkehrsverlag Fischer.
- KTBL 2006a Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. (KTBL)(Hrsg.)(2006): Energiepflanzen. Darmstadt.
- KTBL 2006b Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V. (KTBL)(Hrsg.)(2006): Betriebsplanung Landwirtschaft 2006/07. Darmstadt.
- Muth 2007 Muth, J. (2007): verbal comment. Wolfsburg: Volkswagen AG.
- Pohl 2006 Pohl, E. (2006): Kraftstoffherzeugung über die Vergasung von Biomasse – eine ökonomische Analyse und Bewertung. Diploma thesis. Leipzig: Institute for Energy and Environment.
- Rudloff 2007 Rudloff, M. (2007): verbal comment of May 29. Freiberg: CHOREN Industries.
- SP5-Partners Definition of the scenarios and boundary conditions used to investigate the different biofuel production pathways – well to tank.

**ANNEX**

**Table A-1: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 50 % domestic; Scenario: Best**

		HOMOGENEOUS BRANCHES	Biomass-production	Biomass-transport	Biomass-conversion	Biofuel-transport	Biofuel-distribution	Total	Total adjusted = Intermediate inputs vector	Adjustment
Code	PRODUCTS (CPA)		01	60	24	60	50			
No			1	39	18	39	35			
1	01	Products of agriculture, hunting			32.533.562			32.533.562		32.533.562
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and cork								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					108.516.583	108.516.583		108.516.583
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	1.656.933					1.656.933	1.656.933	
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and hot water			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district heating								
34	45	Construction work			9.225.000		614.098	9.839.098	9.839.098	
35	50	Trade, maintenance and repair services		4.621.613		730.325		5.351.938	5.351.938	
36	51	Wholesale trade and commissic	1.290.013	201.350	7.484.800	31.818	91.967	9.099.949	9.099.949	
37	52	Retail trade services, except of		201.350	120.000	31.818		353.169	353.169	
38	55	Hotel and restaurant services		740.970		117.091		858.061	858.061	
39	60	Land transport; transport via pip			19.527.048		3.085.740	22.612.788		22.612.788
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport								
43	64	Post and telecommunication services		201.350	120.000	31.818	91.967	445.136	445.136	
44	65	Financial intermediation services								
45	66	Insurance and pension funding	356.258	1.223.674	1.845.000	193.370	153.524	3.771.826	3.771.826	
46	67	Services auxiliary to financial institutions		543.244		85.845		629.089	629.089	
47	70	Real estate services								
48	71	Renting services of machinery and								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			120.000			120.000	120.000	
52	75	Public administration and defence	217.451	966.482	120.000	152.727	91.967	1.548.628	1.548.628	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sports								
58	93	Other services								
59	95	Private households with employees								
60		<b>Total</b>	<b>3.520.655</b>	<b>8.700.034</b>	<b>75.741.587</b>	<b>1.374.813</b>	<b>113.407.592</b>	<b>202.744.682</b>	<b>39.081.749</b>	
61		Taxes less subsidies on production								
62		Total intermediate consumption								
63		Compensation of employees	3.565.073	6.799.065	6.000.000	1.074.415	5.518.038	22.956.591		
64		Other net taxes on production		179.336	-25.055.974	28.339		-24.848.298		
65		Consumption of fixed capital	19.076.802	2.005.987	18.450.000	316.994	2.046.993	41.896.776		
66		Operating surplus, net	6.371.032	1.842.625	18.450.000	291.179	2.397.703	29.352.539		
67		Operating surplus, gross								
68		Value added at basic prices	29.012.907	10.827.014	17.844.026	1.710.927	9.962.734	69.357.608		
69		Output at basic prices	32.533.562	19.527.048	131.147.783	3.085.740	123.370.326	309.664.459		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif			37.562.169			37.562.169		
73		Supply at basic prices								
SUPPLEMENTARY DATA										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	111	186	120	29	184	631		



**Table A-2: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 50 % domestic; Scenario: Reference**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			38.208.021			38.208.021		38.208.021
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					92.913.911	92.913.911		92.913.911
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	1.656.933				1.656.933	1.656.933		
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and hot water			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district heating								
34	45	Construction work			11.070.000		614.098	11.684.098	11.684.098	
35	50	Trade, maintenance and repair services		6.140.383		970.327		7.110.711	7.110.711	
36	51	Wholesale trade and commissary	3.559.796	201.350	7.474.800	31.818	91.967	11.359.732	11.359.732	
37	52	Retail trade services, except of motor vehicles		201.350	110.000	31.818		343.169	343.169	
38	55	Hotel and restaurant services		740.970		117.091		858.061	858.061	
39	60	Land transport; transport via pipeline			21.696.720		3.428.600	25.125.320		25.125.320
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport services								
43	64	Post and telecommunication services		201.350	110.000	31.818	91.967	435.136	435.136	
44	65	Financial intermediation services								
45	66	Insurance and pension funding; reinsurance	384.630	1.223.674	1.845.000	193.370	153.524	3.800.198	3.800.198	
46	67	Services auxiliary to financial intermediation								
47	70	Real estate services		543.244		85.845		629.089	629.089	
48	71	Renting services of machinery and equipment								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			110.000			110.000	110.000	
52	75	Public administration and defence	245.824	966.482	110.000	152.727	91.967	1.567.000	1.567.000	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services; recycling			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sporting activities								
58	93	Other services								
59	95	Private households with employment								
60		<b>Total</b>	<b>5.847.183</b>	<b>10.218.804</b>	<b>85.380.718</b>	<b>1.614.815</b>	<b>98.147.780</b>	<b>201.209.301</b>	<b>44.962.050</b>	
61		Taxes less subsidies on production								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	3.848.796	7.449.967	5.500.000	1.177.273	5.518.038	23.494.074		
64		Other net taxes on production		179.336	-83.703.262	28.339		-83.495.587		
65		Consumption of fixed capital	20.154.949	2.005.987	18.450.000	316.994	2.046.993	42.974.923		
66		Operating surplus, net	8.357.093	1.842.625	36.900.000	291.179	2.054.843	49.445.740		
67		Operating surplus, gross								
68		Value added at basic prices	32.360.837	11.477.916	-22.853.262	1.813.785	9.619.874	32.419.150		
69		Output at basic prices	38.208.021	21.696.720	107.205.511	3.428.600	107.767.654	278.306.505		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif			44.678.055			44.678.055		
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	113	186	110	29	184	623		

**Table A-3: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 50 % domestic; Scenario: Worst**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			44.566.020			44.566.020		44.566.020
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					77.311.239	77.311.239		77.311.239
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	1.656.933				1.656.933	1.656.933		
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district								
34	45	Construction work			12.915.000		614.098	13.529.098	13.529.098	
35	50	Trade, maintenance and repair services		7.659.154		1.210.329		8.869.483	8.869.483	
36	51	Wholesale trade and commissaries	6.102.996	201.350	7.464.800	31.818	91.967	13.892.932	13.892.932	
37	52	Retail trade services, except of		201.350	100.000	31.818		333.169	333.169	
38	55	Hotel and restaurant services		740.970		117.091		858.061	858.061	
39	60	Land transport; transport via pipeline			23.866.392		3.771.460	27.637.852		27.637.852
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport								
43	64	Post and telecommunication services		201.350	100.000	31.818	91.967	425.136	425.136	
44	65	Financial intermediation services								
45	66	Insurance and pension funding	416.420	1.223.674	1.845.000	193.370	153.524	3.831.988	3.831.988	
46	67	Services auxiliary to financial institutions								
47	70	Real estate services		543.244		85.845		629.089	629.089	
48	71	Renting services of machinery and								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			100.000			100.000	100.000	
52	75	Public administration and defence	277.614	966.482	100.000	152.727	91.967	1.588.790	1.588.790	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sports								
58	93	Other services								
59	95	Private households with employees								
60		<b>Total</b>	<b>8.453.963</b>	<b>11.737.574</b>	<b>95.703.389</b>	<b>1.854.817</b>	<b>82.887.968</b>	<b>200.637.713</b>	<b>51.122.602</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	4.166.696	8.100.868	5.000.000	1.280.131	5.518.038	24.065.733		
64		Other net taxes on production		179.336	-142.556.572	28.339		-142.348.896		
65		Consumption of fixed capital	21.362.969	2.005.987	18.450.000	316.994	2.046.993	44.182.943		
66		Operating surplus, net	10.582.393	1.842.625	55.350.000	291.179	1.711.983	69.778.180		
67		Operating surplus, gross								
68		Value added at basic prices	36.112.057	12.128.817	-63.756.572	1.916.643	9.277.014	-4.322.040		
69		Output at basic prices	44.566.020	23.866.392	83.740.759	3.771.460	92.164.983	248.109.613		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif			51.793.941			51.793.941		
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	117	186	100	29	184	617		

**Table A-4: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 100 % domestic; Scenario: Best**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			65.067.124			65.067.124		65.067.124
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					108.516.583	108.516.583		108.516.583
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	3.313.866				3.313.866	3.313.866		
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and hot water			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district heating								
34	45	Construction work			9.225.000		614.098	9.839.098	9.839.098	
35	50	Trade, maintenance and repair services		9.243.226		730.325		9.973.551	9.973.551	
36	51	Wholesale trade and commissary	2.580.026	402.701	7.484.800	31.818	91.967	10.591.312	10.591.312	
37	52	Retail trade services, except of motor vehicles		402.701	120.000	31.818		554.519	554.519	
38	55	Hotel and restaurant services		1.481.939		117.091		1.599.030	1.599.030	
39	60	Land transport; transport via pipeline			39.054.095		3.085.740	42.139.835		42.139.835
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport services								
43	64	Post and telecommunication services		402.701	120.000	31.818	91.967	646.486	646.486	
44	65	Financial intermediation services								
45	66	Insurance and pension funding; reinsurance	712.516	2.447.348	1.845.000	193.370	153.524	5.351.758	5.351.758	
46	67	Services auxiliary to financial intermediation								
47	70	Real estate services		1.086.487		85.845		1.172.333	1.172.333	
48	71	Renting services of machinery and equipment								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			120.000			120.000	120.000	
52	75	Public administration and defence	434.903	1.932.964	120.000	152.727	91.967	2.732.562	2.732.562	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services; recycling and recovery			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sporting activities								
58	93	Other services								
59	95	Private households with employment								
60		<b>Total</b>	<b>7.041.310</b>	<b>17.400.067</b>	<b>127.802.197</b>	<b>1.374.813</b>	<b>113.407.592</b>	<b>267.025.980</b>	<b>51.302.438</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	7.130.146	13.598.130	6.000.000	1.074.415	5.518.038	33.320.729		
64		Other net taxes on production		358.672	-39.554.414	28.339		-39.167.403		
65		Consumption of fixed capital	38.153.603	4.011.975	18.450.000	316.994	2.046.993	62.979.565		
66		Operating surplus, net	12.742.065	3.685.250	18.450.000	291.179	2.397.703	37.566.197		
67		Operating surplus, gross								
68		Value added at basic prices	58.025.814	21.654.028	3.345.586	1.710.927	9.962.734	94.699.088		
69		Output at basic prices	65.067.124	39.054.095	131.147.783	3.085.740	123.370.326	361.725.068		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif								
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	221	372	120	29	184	927		

**Table A-5: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 100 % domestic; Scenario: Reference**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			76.416.041			76.416.041		76.416.041
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					92.913.911	92.913.911		92.913.911
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	3.313.866					3.313.866	3.313.866	
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district								
34	45	Construction work			11.070.000		614.098	11.684.098	11.684.098	
35	50	Trade, maintenance and repair services		12.280.767		970.327		13.251.094	13.251.094	
36	51	Wholesale trade and commissic	7.119.592	402.701	7.474.800	31.818	91.967	15.120.879	15.120.879	
37	52	Retail trade services, except of		402.701	110.000	31.818		544.519	544.519	
38	55	Hotel and restaurant services		1.481.939		117.091		1.599.030	1.599.030	
39	60	Land transport; transport via pip			43.393.439		3.428.600	46.822.039		46.822.039
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport								
43	64	Post and telecommunication services		402.701	110.000	31.818	91.967	636.486	636.486	
44	65	Financial intermediation services								
45	66	Insurance and pension funding	769.261	2.447.348	1.845.000	193.370	153.524	5.408.503	5.408.503	
46	67	Services auxiliary to financial institutions								
47	70	Real estate services		1.086.487		85.845		1.172.333	1.172.333	
48	71	Renting services of machinery and								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			110.000			110.000	110.000	
52	75	Public administration and defence	491.647	1.932.964	110.000	152.727	91.967	2.779.306	2.779.306	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sports								
58	93	Other services								
59	95	Private households with employees								
60		<b>Total</b>	<b>11.694.366</b>	<b>20.437.608</b>	<b>145.285.458</b>	<b>1.614.815</b>	<b>98.147.780</b>	<b>277.180.028</b>	<b>61.028.037</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	7.697.592	14.899.934	5.500.000	1.177.273	5.518.038	34.792.836		
64		Other net taxes on production		358.672	-98.929.947	28.339		-98.542.936		
65		Consumption of fixed capital	40.309.897	4.011.975	18.450.000	316.994	2.046.993	65.135.859		
66		Operating surplus, net	16.714.185	3.685.250	36.900.000	291.179	2.054.843	59.645.458		
67		Operating surplus, gross								
68		Value added at basic prices	64.721.675	22.955.831	-38.079.947	1.813.785	9.619.874	61.031.218		
69		Output at basic prices	76.416.041	43.393.439	107.205.511	3.428.600	107.767.654	338.211.246		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif								
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	227	372	110	29	184	923		

**Table A-6: Cost structure of the primary supply chain; Plant location: Germany; Biomass supply: 100 % domestic; Scenario: Worst**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			89.132.041			89.132.041		89.132.041
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					77.311.239	77.311.239		77.311.239
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	3.313.866					3.313.866	3.313.866	
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district								
34	45	Construction work			12.915.000		614.098	13.529.098	13.529.098	
35	50	Trade, maintenance and repair services		15.318.308		1.210.329		16.528.637	16.528.637	
36	51	Wholesale trade and commissic	12.205.992	402.701	7.464.800	31.818	91.967	20.197.278	20.197.278	
37	52	Retail trade services, except of		402.701	100.000	31.818		534.519	534.519	
38	55	Hotel and restaurant services		1.481.939		117.091		1.599.030	1.599.030	
39	60	Land transport; transport via pip			47.732.783		3.771.460	51.504.243		51.504.243
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport								
43	64	Post and telecommunication services		402.701	100.000	31.818	91.967	626.486	626.486	
44	65	Financial intermediation services								
45	66	Insurance and pension funding	832.841	2.447.348	1.845.000	193.370	153.524	5.472.083	5.472.083	
46	67	Services auxiliary to financial int								
47	70	Real estate services		1.086.487		85.845		1.172.333	1.172.333	
48	71	Renting services of machinery and								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			100.000			100.000	100.000	
52	75	Public administration and defence	555.227	1.932.964	100.000	152.727	91.967	2.832.886	2.832.886	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sports								
58	93	Other services								
59	95	Private households with employees								
60		<b>Total</b>	<b>16.907.926</b>	<b>23.475.149</b>	<b>164.135.801</b>	<b>1.854.817</b>	<b>82.887.968</b>	<b>289.261.662</b>	<b>71.314.139</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	8.333.392	16.201.737	5.000.000	1.280.131	5.518.038	36.333.297		
64		Other net taxes on production		358.672	-159.195.042	28.339		-158.808.031		
65		Consumption of fixed capital	42.725.937	4.011.975	18.450.000	316.994	2.046.993	67.551.899		
66		Operating surplus, net	21.164.785	3.685.250	55.350.000	291.179	1.711.983	82.203.197		
67		Operating surplus, gross								
68		Value added at basic prices	72.224.114	24.257.634	-80.395.042	1.916.643	9.277.014	27.280.363		
69		Output at basic prices	89.132.041	47.732.783	83.740.759	3.771.460	92.164.983	316.542.025		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif								
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	233	372	100	29	184	920		

**Table A-7: Cost structure of the primary supply chain; Plant location: Sweden; Biomass supply: 100 % domestic; Scenario: Reference**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			79.462.648			79.462.648		79.462.648
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					107.318.297	107.318.297		107.318.297
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	2.982.479					2.982.479	2.982.479	
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and hot water			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district heating								
34	45	Construction work			11.070.000		245.639	11.315.639	11.315.639	
35	50	Trade, maintenance and repair services		12.280.767		970.327		13.251.094	13.251.094	
36	51	Wholesale trade and commissary	10.985.393	402.701	7.474.800	31.818	61.312	18.956.023	18.956.023	
37	52	Retail trade services, except of motor vehicles		402.701	110.000	31.818		544.519	544.519	
38	55	Hotel and restaurant services		1.481.939		117.091		1.599.030	1.599.030	
39	60	Land transport; transport via pipeline			43.393.439		3.428.600	46.822.039		46.822.039
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport services								
43	64	Post and telecommunication services		402.701	110.000	31.818	61.312	605.831	605.831	
44	65	Financial intermediation services								
45	66	Insurance and pension funding; reinsurance	749.557	2.447.348	1.845.000	193.370	61.410	5.296.684	5.296.684	
46	67	Services auxiliary to financial intermediation								
47	70	Real estate services		1.086.487		85.845		1.172.333	1.172.333	
48	71	Renting services of machinery and equipment								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			110.000			110.000	110.000	
52	75	Public administration and defence	499.705	1.932.964	110.000	152.727	61.312	2.756.708	2.756.708	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services; recycling and recovery			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sporting activities								
58	93	Other services								
59	95	Private households with employment								
60		<b>Total</b>	<b>15.217.134</b>	<b>20.437.608</b>	<b>148.332.065</b>	<b>1.614.815</b>	<b>111.999.626</b>	<b>297.601.248</b>	<b>63.998.263</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	8.333.392	14.899.934	5.500.000	1.177.273	3.678.692	33.589.290		
64		Other net taxes on production		358.672	-87.572.167	28.339		-87.185.156		
65		Consumption of fixed capital	36.863.816	4.011.975	18.450.000	316.994	818.797	60.461.582		
66		Operating surplus, net	19.048.307	3.685.250	36.900.000	291.179	5.674.926	65.599.661		
67		Operating surplus, gross								
68		Value added at basic prices	64.245.515	22.955.831	-26.722.167	1.813.785	10.172.415	72.465.378		
69		Output at basic prices	79.462.648	43.393.439	121.609.897	3.428.600	122.172.041	370.066.626		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif								
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	233	372	110	29	184	930		

**Table A-8: Cost structure of the primary supply chain; Plant location: Poland; Biomass supply: 100 % domestic; Scenario: Reference**

No	Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES					Total	Total adjusted = Intermediate inputs vector	Adjustment
			Biomass- production	Biomass- transport	Biomass- conversion	Biofuel- transport	Biofuel- distribution			
			01	60	24	60	50			
			1	39	18	39	35			
1	01	Products of agriculture, hunting			68.017.680			68.017.680		68.017.680
2	02	Products of forestry, logging and								
3	05	Fish and other fishing products;								
4	10	Coal and lignite; peat								
5	11	Crude petroleum and natural gas								
6	12	Uranium and thorium ores								
7	13	Metal ores								
8	14	Other mining and quarrying products								
9	15	Food products and beverages								
10	16	Tobacco products								
11	17	Textiles								
12	18	Wearing apparel; furs								
13	19	Leather and leather products								
14	20	Wood and products of wood and								
15	21	Pulp, paper and paper products								
16	22	Printed matter and recorded media								
17	23	Coke, refined petroleum products								
18	24	Chemicals, chemical products and					103.723.570	103.723.570		103.723.570
19	25	Rubber and plastic products								
20	26	Other non-metallic mineral products								
21	27	Basic metals								
22	28	Fabricated metal products, except								
23	29	Machinery and equipment n.e.c.	2.651.093				2.651.093	2.651.093		
24	30	Office machinery and computers								
25	31	Electrical machinery and apparatus								
26	32	Radio, television and communication								
27	33	Medical, precision and optical instruments								
28	34	Motor vehicles, trailers and semi-trailers								
29	35	Other transport equipment								
30	36	Furniture; other manufactured goods								
31	37	Secondary raw materials								
32	40	Electrical energy, gas, steam and hot water			3.188.647		761.745	3.950.392	3.950.392	
33	41	Collected and purified water, district heating								
34	45	Construction work			11.070.000		245.639	11.315.639	11.315.639	
35	50	Trade, maintenance and repair services		6.140.383		485.164		6.625.547	6.625.547	
36	51	Wholesale trade and commissary	9.764.794		7.441.800	15.909	61.312	17.485.165	17.485.165	
37	52	Retail trade services, except of motor vehicles		201.350	77.000	15.909		294.260	294.260	
38	55	Hotel and restaurant services		740.970		58.545		799.515	799.515	
39	60	Land transport; transport via pipeline			21.696.720		1.714.300	23.411.020		23.411.020
40	61	Water transport services								
41	62	Air transport services								
42	63	Supporting and auxiliary transport services								
43	64	Post and telecommunication services		201.350	77.000	15.909	61.312	355.571	355.571	
44	65	Financial intermediation services								
45	66	Insurance and pension funding; reinsurance	666.273	1.223.674	1.845.000	96.685	61.410	3.893.041	3.893.041	
46	67	Services auxiliary to financial intermediation								
47	70	Real estate services		543.244		42.923		586.166	586.166	
48	71	Renting services of machinery and equipment								
49	72	Computer and related services								
50	73	Research and development services								
51	74	Other business services			77.000			77.000	77.000	
52	75	Public administration and defence	444.182	966.482	77.000	76.364	61.312	1.625.339	1.625.339	
53	80	Education services								
54	85	Health and social work services								
55	90	Sewage and refuse disposal services; recycling			1.457.531			1.457.531	1.457.531	
56	91	Membership organisation services								
57	92	Recreational, cultural and sporting activities								
58	93	Other services								
59	95	Private households with employment								
60		<b>Total</b>	<b>13.526.341</b>	<b>10.218.804</b>	<b>115.025.377</b>	<b>807.408</b>	<b>106.690.599</b>	<b>246.268.529</b>	<b>51.116.259</b>	
61		Taxes less subsidies on products								
62		<b>Total intermediate consumption</b>								
63		Compensation of employees	2.777.797	7.449.967	3.850.000	588.636	3.678.692	18.345.092		
64		Other net taxes on production		179.336	-56.210.208	14.170		-56.016.702		
65		Consumption of fixed capital	34.781.714	2.005.987	18.450.000	158.497	818.797	56.214.995		
66		Operating surplus, net	16.931.828	1.842.625	36.900.000	145.589	890.713	56.710.755		
67		Operating surplus, gross								
68		Value added at basic prices	54.491.339	11.477.916	2,989.792	906.892	5,388.202	75.254.141		
69		Output at basic prices	68.017.680	21.696.720	118.015.170	1.714.300	112.078.801	321.522.670		
70		Imports cif intra EU 2)								
71		Imports cif extra EU 2)								
72		Imports cif								
73		Supply at basic prices								
<b>SUPPLEMENTARY DATA</b>										
74		Fixed capital formation <sup>2)</sup>								
75		Fixed capital stock <sup>2)</sup>								
76		Labour inputs (persons)	233	372	110	29	184	930		

Table A-9: Symmetric Input-Output Table for Germany

Year		Table 17: Input-output table at basic prices										
2002		Germany										
		Mio. EUR										
		current prices										
		HOMOGENEOUS BRANCHES										
		Products of agriculture, hunting and related services	Products of forestry, logging and related services	Fish and other fish products; services incidental fishing	Coal and lignite; peat	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying	Uranium and thorium ores	Metal ores	Other mining and quarrying products	Food products and beverages	Tobacco products	
		01	02	05	10	11	12	13	14	15	16	
Code		PRODUCTS (CPA)										
No		1	2	3	4	5	6	7	8	9	10	
1	01	992	63		8					30	325	665
2	02	62	420		4	10			11			
3	05			30						254		
4	10	42			175				14	34		1
5	11	36				102			16	360		
6	12											
7	13											
8	14	383	4	2	4				551	217		
9	15	4 223								18 245		2
10	16											100
11	17	38	2	47						29		1
12	18	2	2		3				3	13		
13	19	16	1		2	1			3			
14	20	68	5	1	17	1			9	166		19
15	21	36	2		6	4			78	2 560		265
16	22	42	13	1	16	1			14	330		47
17	23	717	37	6	14				48	422		8
18	24	3 111	33	2	96	5			69	1 308		40
19	25	151	13		74	1			14	1 765		23
20	26	406	20		56				8	521		
21	27	68	4		94	41			20	170		5
22	28	267	25	8	277	62			49	1 303		3
23	29	665	52	2	636	108			124	891		22
24	30	4	1		2	1			5	56		1
25	31	50	3		28	16			9	54		3
26	32											
27	33	2			1	1			10	51		
28	34	163	5		21				14	87		
29	35											
30	36	2							2	3		
31	37											
32	40	563	4	6	287	46			184	1 976		33
33	41	325	1	1	18				18	363		3
34	45	231	30	5	129	6			31	449		8
35	50	461	16	1	6	1			42	268		5
36	51	2 136	63	21	231	39			110	7 529		147
37	52	67	5	6	13				8	932		10
38	55	8	4	1	13	11			7	117		3
39	60	108	20		3	94			267	1 690		32
40	61	17		30		3			99	25		
41	62	14	1		5	60			19	150		28
42	63	26	2	2					45	2 168		
43	64	72	22	1	28	40			23	521		10
44	65	791	46	1	18	19			59	1 112		45
45	66	224	6	1	14	15			19	217		7
46	67											
47	70	295	11	1	225	38			142	2 247		68
48	71	2 191	60		49	50			111	1 218		14
49	72	3	1		4	8			5	127		13
50	73											
51	74	2 192	113	4	189	334			326	11 367		918
52	75	88	23	1	34	23			35	398		25
53	80	50	4	1	3	3			8	170		6
54	85	722								15		
55	90	258	7	2	133				61	645		4
56	91	72	5	1	28	3			8	250		5
57	92									187		115
58	93	58	2		15	8			19	167		5
59	95											
60	Total	22 518	1 151	185	2 979	1 155			2 717	93 472		2 709
61	Taxes less subsidies on products	1 302	29	5	67	16			91	306		41
62	Total intermediate consumption/Fir	23 820	1 180	190	3 046	1 171			2 808	93 778		2 750
63	Compensation of employees	7 441	720	50	2 811	381			1 424	22 404		655
64	Other net taxes on production	- 1 252	- 270	10	- 3 201	62			48	302		122
65	Consumption of fixed capital	6 703	320	70	685	369			450	5 238		194
66	Operating surplus, net	6 364	1 190	100	- 396	725			856	5 015		1 056
67	Operating surplus, gross	13 067	1 510	170	289	1 094			1 306	10 253		1 250
68	Value added at basic prices	19 256	1 960	230	- 101	1 537			2 778	32 959		2 027
69	Output at basic prices	43 076	3 140	420	2 945	2 708			5 586	126 737		4 777
70	Imports cif intra EU 2)	9 406	170	258	120	7 040		298	824	21 886		779
71	Imports cif extra EU 2)	6 998	296	227	1 171	23 137		2 086	713	8 352		79
72	Imports cif	16 404	466	485	1 291	30 177		2 384	1 537	30 238		858
73	Supply at basic prices	59 480	3 606	905	4 236	32 885		2 384	7 123	156 975		5 635

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25



Table A-10: continuance Table A-9

Year		Table 17: Input-output table at basic prices									
2002		Germany									
		Mio. EUR									
		current prices									
		HOMOGENEOUS BRANCHES									
		Textiles	Wearing apparel; furs	Leather and leather products	Wood and of products of wood and cork (except furniture); articles of straw and plaiting materials	Pulp, paper and paper products	Printed matter and recorded media	Coke, refined petroleum products and nuclear fuels	Chemicals and chemical products	Rubber and plastic products	Other non-metallic mineral products
		17	18	19	20	21	22	23	24	25	26
No	Code	11	12	13	14	15	16	17	18	19	20
1	01	296	11	2					33	194	
2	02				1 516	339	5		6		1
3	05										
4	10	8		1	2	55		364	68	2	104
5	11	46	6	4	20	271	40	20 084	1 000	100	395
6	12										
7	13								17		12
8	14					73	1	1	479	27	2 221
9	15	30		71		1			1 037	8	1
10	16										
11	17	2 909	2 669	44	5	22	3	2	112	437	4
12	18	2	1 639						10		
13	19	1		1 003				1			6
14	20	8	6	7	4 713	153	4		223	31	54
15	21	174	94	124	74	8 055	3 533	4	1 893	344	238
16	22	87	124	19	78	383	8 124	41	284	166	83
17	23	27	9	10	85	67	72	2 657	5 119	593	264
18	24	2 368	142	381	1 962	1 768	863	159	26 057	11 070	1 011
19	25	98	105	11	95	578	68	32	1 662	4 370	421
20	26	156	4	7	390	45		4	643	322	4 426
21	27		4		20	71	11	3	778	255	67
22	28	27	69	64	233	80	34	177	1 273	416	142
23	29	225	35	13	77	249	320	86	1 169	1 086	361
24	30	4	5		19	15	27	7	147	59	24
25	31	11	9	1	7	32	17	14	212	41	16
26	32						20				
27	33		1			14	2	21	201	43	10
28	34				11	12		12	147	3	144
29	35									1	
30	36		54		2	3	9	1	6	14	4
31	37	15				443	7		39	160	114
32	40	404	96	46	394	1 034	503	160	2 013	982	1 153
33	41	22	9	3	10	119	31	16	280	59	100
34	45	55	35	10	68	88	215	76	447	142	244
35	50	10	11	2	94	62	107	15	141	52	143
36	51	682	972	366	1 206	1 155	1 093	74	4 380	1 156	1 913
37	52	59	156	108	129	138	183	14	342	90	80
38	55	19	14	5	13	20	163	12	175	115	37
39	60	36	27	6	245	660	567	367	1 431	581	1 395
40	61	3	3	1	1	10		54	268	9	9
41	62	45	16	2	52	84	166	46	351	131	69
42	63	44	15	4	100	26	23	39	456	333	322
43	64	60	33	7	109	183	1 194	133	901	413	234
44	65	106	49	3	207	205	476	227	761	412	283
45	66	11	7	5	69	91	143	35	404	172	109
46	67								61	1	
47	70	211	92	20	325	403	1 315	187	1 420	688	530
48	71	29	18	12	372	381	1 145	66	989	637	609
49	72	12	7	2	31	61	832	33	592	131	101
50	73					1			3 341	454	85
51	74	622	350	92	607	1 251	4 369	1 202	11 265	3 289	2 604
52	75	23	15	9	59	87	99	46	486	161	155
53	80	15	10	6	31	21	62	28	235	59	54
54	85								25	10	
55	90	19	7	15	83	490	54	14	1 377	131	87
56	91	31	14	4	17	33	117	55	161	58	54
57	92						2 537		89	1	
58	93	5	6	1	70	33	95	11	182	34	41
59	95										
60	Total	9 017	6 948	2 491	13 601	19 365	28 649	26 580	75 188	30 043	20 434
61	Taxes less subsidies on products	84	58	48	174	251	259	220	1 360	244	414
62	Total intermediate consumption/Fir	9 101	7 006	2 539	13 775	19 616	28 908	26 800	76 548	30 287	20 848
63	Compensation of employees	3 741	1 734	707	4 775	5 939	12 216	1 671	22 929	14 200	9 815
64	Other net taxes on production	68	54	10	48	177	278	90	610	261	154
65	Consumption of fixed capital	1 096	173	143	898	1 843	3 496	733	6 570	2 542	2 887
66	Operating surplus, net	41	297	194	874	1 357	4 963	493	5 273	2 894	335
67	Operating surplus, gross	1 137	470	337	1 772	3 200	8 459	1 226	11 843	5 436	3 222
68	Value added at basic prices	4 946	2 258	1 054	6 595	9 316	20 953	2 987	35 382	19 897	13 191
69	Output at basic prices	14 047	9 264	3 593	20 370	28 932	49 861	29 787	111 930	50 184	34 039
70	Imports cif intra EU 2)	6 461	3 899	3 159	2 121	10 537	3 397	10 740	41 008	9 245	4 155
71	Imports cif extra EU 2)	6 753	13 320	3 492	2 523	3 860	2 095	4 933	17 559	6 070	2 883
72	Imports cif	13 214	17 219	6 651	4 644	14 397	5 492	15 673	58 567	15 315	7 038
73	Supply at basic prices	27 261	26 483	10 244	25 014	43 329	55 353	45 460	170 497	65 499	41 077

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-11: continuance Table A-9

Year		Table 17: Input-output table at basic prices									
2002		Germany									
		Mio. EUR									
		current prices									
		HOMOGENEOUS BRANCHES									
		Basic metals	Fabricated metal products, except machinery and equipment	Machinery and equipment n.e.c.	Office machinery and computers	Electrical machinery and apparatus n.e.c.	Radio, television and communication equipment and apparatus	Medical, precision and optical instruments, watches and clocks	Motor vehicles, trailers and semi-trailers	Other transport equipment	Furniture; other manufactured goods n.e.c.
		27	28	29	30	31	32	33	34	35	36
No	Code	21	22	23	24	25	26	27	28	29	30
1	01	Products of agriculture, hunting and related services									
2	02	Products of forestry, logging and related services									
3	05	Fish and other fishing products; services incidental of fishing									
4	10	Coal and lignite; peat									
5	11	Crude petroleum and natural gas; ε									
6	12	Uranium and thorium ores									
7	13	Metal ores									
8	14	Other mining and quarrying products									
9	15	Food products and beverages									
10	16	Tobacco products									
11	17	Textiles									
12	18	Wearing apparel; furs									
13	19	Leather and leather products									
14	20	Wood and products of wood and cork									
15	21	Pulp, paper and paper products									
16	22	Printed matter and recorded media									
17	23	Coke, refined petroleum products and									
18	24	Chemicals, chemical products and									
19	25	Rubber and plastic products									
20	26	Other non-metallic mineral products									
21	27	Basic metals									
22	28	Fabricated metal products, except machinery and equipment									
23	29	Machinery and equipment n.e.c.									
24	30	Office machinery and computers									
25	31	Electrical machinery and apparatus									
26	32	Radio, television and communication equipment and apparatus									
27	33	Medical, precision and optical instruments, watches and clocks									
28	34	Motor vehicles, trailers and semi-trailers									
29	35	Other transport equipment									
30	36	Furniture; other manufactured goods n.e.c.									
31	37	Secondary raw materials									
32	40	Electrical energy, gas, steam and hot water									
33	41	Collected and purified water, distribution									
34	45	Construction work									
35	50	Trade, maintenance and repair services									
36	51	Wholesale trade and commission trade									
37	52	Retail trade services, except of motor vehicles									
38	55	Hotel and restaurant services									
39	60	Land transport; transport via pipeline									
40	61	Water transport services									
41	62	Air transport services									
42	63	Supporting and auxiliary transport services									
43	64	Post and telecommunication services									
44	65	Financial intermediation services, except insurance									
45	66	Insurance and pension funding services									
46	67	Services auxiliary to financial intermediation									
47	70	Real estate services									
48	71	Renting services of machinery and equipment									
49	72	Computer and related services									
50	73	Research and development services									
51	74	Other business services									
52	75	Public administration and defence; compulsory social security									
53	80	Education services									
54	85	Health and social work services									
55	90	Sewage and refuse disposal services; recycling and recovery									
56	91	Membership organisation services									
57	92	Recreational, cultural and sporting services									
58	93	Other services									
59	95	Private households with employed persons									
60		41 147	46 934	92 503	11 192	44 555	22 558	19 764	169 224	18 719	18 037
61		778	396	633	167	304	300	189	767	186	175
62		41 925	47 330	93 136	11 359	44 859	22 858	19 953	169 991	18 905	18 212
63		11 100	28 439	50 490	2 278	25 229	8 243	13 084	43 419	7 303	8 496
64		130	449	625	15	140	- 18	170	186	- 123	117
65		2 557	4 391	5 878	856	3 099	2 330	1 405	8 280	897	1 439
66		1 399	4 657	6 087	- 211	- 2 607	- 2 341	4 039	- 75	511	632
67		3 956	9 048	11 965	645	492	- 11	5 444	8 205	1 408	2 071
68		15 186	37 936	63 080	2 938	25 861	8 214	18 698	51 810	8 588	10 684
69		57 111	85 266	156 216	14 297	70 720	31 072	38 651	221 801	27 493	28 896
70		18 843	7 525	19 052	8 780	8 711	12 233	4 943	37 578	12 945	4 918
71		11 563	6 895	20 838	20 785	15 154	22 100	11 436	21 124	10 519	9 456
72		30 406	14 420	39 890	29 565	23 865	34 333	16 379	58 702	23 464	14 374
73		87 517	99 686	196 106	43 862	94 585	65 405	55 030	280 503	50 957	43 270

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-12: continuance Table A-9

Year		Table 17: Input-output table at basic prices									
2002		Germany									
		Mio. EUR									
		current prices									
Code	PRODUCTS (CPA)	HOMOGENEOUS BRANCHES									
		Recovered secondary raw materials	Electrical energy, gas, steam and hot water	Collected and purified water; distribution services of water	Construction work	Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel	Wholesale trade and commission trade, except of motor vehicles and motorcycles	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods	Hotels and restaurants services	Land transport; transport via pipelines services	Water transport services
No		37	40	41	45	50	51	52	55	60	61
		31	32	33	34	35	36	37	38	39	40
1	01	Products of agriculture, hunting and related services	2						677	18	21
2	02	Products of forestry, logging and related services		1					3		
3	05	Fish and other fishing products; services incidental of fishing							75		3
4	10	Coal and lignite; peat	2 724			5		1	1	15	
5	11	Crude petroleum and natural gas; uranium and thorium ores	3	2 359		17	8	61	253	90	13
6	12	Uranium and thorium ores									
7	13	Metal ores									
8	14	Other mining and quarrying products				1 495				11	11
9	15	Food products and beverages				7			8	11 177	72
10	16	Tobacco products								2	
11	17	Textiles		3	1	339	13	21	214	111	3
12	18	Wearing apparel; furs	2			4	1	1	11	13	6
13	19	Leather and leather products				27			2		3
14	20	Wood and products of wood and cork	5	9		5 610	9	58	71	64	7
15	21	Pulp, paper and paper products	4	36	6	303	33	925	1 552	56	46
16	22	Printed matter and recorded media	12	134	19	175	333	519	3 294	413	208
17	23	Coke, refined petroleum products and other mineral products	113	843	17	1 204	250	703	397	109	1 451
18	24	Chemicals, chemical products and other non-metallic mineral products	28	70	94	2 722	168	32	116	140	48
19	25	Rubber and plastic products	29	12	7	8 358	753	290	740	49	160
20	26	Other non-metallic mineral products	1	85	1	16 511	101	5	14	77	25
21	27	Basic metals		258	42	1 210	278	26	116		154
22	28	Fabricated metal products, except of machinery and equipment n.e.c.	27	429	26	8 999	719	115	229	75	197
23	29	Machinery and equipment n.e.c.	1	617	128	1 646	166	82	234	116	191
24	30	Office machinery and computers	8	53	12	38	37	75	155	40	70
25	31	Electrical machinery and apparatus	5	2 587	20	9 830	685	49	137	147	311
26	32	Radio, television and communication equipment		1		3			86	42	
27	33	Medical, precision and optical instruments	1	319	76	50	54	10	39	1	13
28	34	Motor vehicles, trailers and semi-trailers	88	37	8		2 885	4	3		693
29	35	Other transport equipment									324
30	36	Furniture; other manufactured goods n.e.c.		3		30	2	5	52	44	6
31	37	Secondary raw materials	894								
32	40	Electrical energy, gas, steam and hot water	54	7 565	475	140	551	712	1 715	874	929
33	41	Collected and purified water; distribution services of water	13	25	132	95	40	40	74	284	23
34	45	Construction work	21	836	211	8 126	305	292	650	545	348
35	50	Trade, maintenance and repair services of motor vehicles and motorcycles	49	83	13	562	1 138	534	2 186	150	2 970
36	51	Wholesale trade and commission trade, except of motor vehicles and motorcycles	225	1 581	71	8 255	905	5 219	2 365	2 867	423
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods	2	113	4	1 271	57	50	231	639	34
38	55	Hotel and restaurant services	5	34	5	296	58	816	337	176	342
39	60	Land transport; transport via pipelines	29	559		306	220	8 961	2 230	13	2 728
40	61	Water transport services		265			3	582			15
41	62	Air transport services	1	32		129	38	236	126	13	20
42	63	Supporting and auxiliary transport services	8	59	7	400	177	17 469	719	240	7 093
43	64	Post and telecommunication services	4	416	45	992	230	1 803	6 228	722	582
44	65	Financial intermediation services, except of insurance and pension funding services	4	474	58	3 314	883	1 600	2 473	1 248	774
45	66	Insurance and pension funding services	6	327	48	395	149	181	592	101	1 445
46	67	Services auxiliary to financial intermediation		52							
47	70	Real estate services	78	524	24	13 331	3 815	8 046	12 785	5 317	568
48	71	Renting services of machinery and equipment	104	1 337	64	4 856	183	1 979	2 080	425	1 046
49	72	Computer and related services	15	204	16	104	183	716	706	28	516
50	73	Research and development services									
51	74	Other business services	306	4 212	240	6 772	2 253	7 925	9 566	2 263	2 397
52	75	Public administration and defence; compulsory social security	42	3 346	49	948	67	142	276	186	183
53	80	Education services	3	83	5	271	66	236	225	94	167
54	85	Health and social work services						8	39	36	
55	90	Sewage and refuse disposal services; recycling and recovery	14	206	2	326	91	161	1 998	423	122
56	91	Membership organisation services	12	182	7	554	109	230	1 101	67	165
57	92	Recreational, cultural and sporting services		14			3	8	35	690	
58	93	Other services	10	52	5	88	40	182	274	659	36
59	95	Private households with employed persons									
60		Total	2 226	33 163	1 938	110 114	18 061	61 116	56 741	31 593	26 899
61		Taxes less subsidies on products	200	953	93	1 646	272	1 342	1 032	1 083	3 090
62		Total intermediate consumption/Fir	2 426	34 116	2 031	111 760	18 333	62 458	57 773	32 676	29 989
63		Compensation of employees	580	12 520	1 981	58 513	27 018	62 444	66 743	22 328	26 165
64		Other net taxes on production	1	796	24	583	849	3 683	1 738	119	- 889
65		Consumption of fixed capital	102	9 088	2 511	5 529	2 225	7 273	6 069	2 561	5 653
66		Operating surplus, net	247	3 234	2 550	25 217	10 643	21 498	15 756	6 832	- 160
67		Operating surplus, gross	349	12 322	5 061	30 746	12 868	28 771	21 825	9 393	5 493
68		Value added at basic prices	930	25 638	7 066	89 842	40 735	94 898	90 306	31 840	30 769
69		Output at basic prices	3 356	59 754	9 097	201 602	59 068	157 356	148 079	64 516	60 758
70		Imports cif intra EU 2)		2 155		1 666		1 679	21	1 727	5 515
71		Imports cif extra EU 2)		1 907		1 241		1 611	75	3 768	2 920
72		Imports cif		4 062		2 907		3 290	96	5 495	8 435
73		Supply at basic prices	3 356	63 816	9 097	204 509	59 068	160 646	148 175	70 011	69 193

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-13: continuance Table A-9

Year		Table 17: Input-output table at basic prices									
2002		Germany									
		Mio. EUR									
		current prices									
		HOMOGENEOUS BRANCHES									
		Air transport services	Supporting and auxiliary transport services; travel agency services	Post and telecommunications services	Financial intermediation services, except insurance and pension funding services	Insurance and pension funding services, except compulsory social security services	Services auxiliary to financial intermediation	Real estate services	Renting of machinery and equipment without operator and of personal and household goods	Computer and related services	Research and development services
		62	63	64	65	66	67	70	71	72	73
Code		PRODUCTS (CPA)									
No		41	42	43	44	45	46	47	48	49	50
1	01			6	5	3	3	580	1	2	2
2	02										
3	05										
4	10										
5	11		4	10	30	24	5	2	1	7	5
6	12										
7	13										
8	14										
9	15	10									
10	16										
11	17		9	46	9	11		2	2	4	4
12	18	1		2							
13	19		4								
14	20		13	21	8	6	2	372	2	6	6
15	21		5	211	157	155	38	6	9	70	31
16	22	13	372	1 203	515	309	10	687	37	131	255
17	23	2 451	650	183	33	29	9	31	23	46	36
18	24	1	8	16	11	12		1		10	321
19	25	3	103	28	5	7		17		3	15
20	26		10	6							20
21	27		13	9				2			
22	28	1	314	42	13	16		117	5	22	25
23	29		85	43	4	4		569		2	26
24	30	3	154	406	174	111	32	29	16	882	185
25	31	1	180	316	14	26	1	55	4	47	142
26	32			2 304			3			12	25
27	33	1		5	1	1					126
28	34		226								
29	35	2 163									
30	36	1	3	7	7	7	2	3	1	5	4
31	37										
32	40	3	255	471	318	161	65	384	38	99	168
33	41	1	48	47	31	32	1	21	2	19	16
34	45	7	691	658	334	333	16	16 784	66	186	84
35	50	1	2 484	268	49	47	28	30	289	60	36
36	51	2	180	549	131	98	20	122	14	325	226
37	52	2	40	204	47	34	7	25	4	16	89
38	55	687	449	190	549	531	129	23	19	105	59
39	60	3	11 216	30	49	28	7	5	2	33	32
40	61		342								
41	62	4	489	324	326	179	10	24	12	139	130
42	63	7 065	16 393	1 821	5	3				5	10
43	64	75	1 114	17 122	1 785	1 271	529	549	60	341	165
44	65	98	705	871	11 833	1 978	2 124	19 548	444	534	97
45	66	42	536	89	453	8 779	3 093	1 617	355	41	21
46	67			10 917	10 430	4 393		53			
47	70	29	1 576	4 563	3 947	3 066	296	11 168	166	403	363
48	71	941	1 376	621	553	389	592	94	4 751	969	100
49	72	38	998	1 892	1 574	693	93	217	43	7 737	1 275
50	73			112							2 035
51	74	167	2 157	3 468	11 900	15 837	375	9 663	1 063	1 313	1 490
52	75	12	103	82	98	78	7	1 364	24	40	159
53	80	39	105	88	200	88	29	397	13	475	2 055
54	85										
55	90	3	139	74	106	61	5	1 306	7	47	37
56	91	2	310	15	350	192	22	33	10	64	142
57	92			102	119	73					1
58	93	1	631	348	235	164	11	165	15	199	67
59	95										
60	Total	13 876	44 528	38 872	46 893	45 266	11 954	66 012	7 551	14 399	10 085
61	Taxes less subsidies on products	39	1 550	974	3 240	3 288	306	2 544	165	135	619
62	Total intermediate consumption/Fir	13 915	46 078	39 846	50 133	48 554	12 260	68 556	7 716	14 534	10 704
63	Compensation of employees	2 800	15 992	14 674	37 635	14 196	3 641	11 387	2 508	23 060	7 018
64	Other net taxes on production	85	356	287	1 491	963	128	6 900	197	210	- 349
65	Consumption of fixed capital	1 167	6 762	9 158	4 612	1 624	98	83 667	34 148	4 247	1 639
66	Operating surplus, net	341	4 347	14 422	16 139	- 5 905	6 315	142 153	287	7 655	167
67	Operating surplus, gross	1 508	11 109	23 580	20 751	- 4 281	6 413	225 820	34 435	11 902	1 806
68	Value added at basic prices	4 393	27 457	38 541	59 877	10 878	10 182	244 107	37 140	35 172	8 475
69	Output at basic prices	18 308	73 535	78 387	110 010	59 432	22 442	312 663	44 856	49 706	19 179
70	Imports cif intra EU 2)	3 331	3 411	3 392	2 672	780	2 783	3 329		3 282	2 612
71	Imports cif extra EU 2)	150	3 938	2 544	298	818	2 645	3 021		3 109	3 079
72	Imports cif	3 481	7 349	5 936	2 970	1 598	5 428	6 350		6 391	5 691
73	Supply at basic prices	21 789	80 884	84 323	112 980	61 030	27 870	319 013	44 856	56 097	24 870

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuations.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-14: continuance Table A-9

Year		Germany											Total
2002		HOMOGENEOUS BRANCHES											Total
Code		PRODUCTS (CPA)	Other business services	Public administration and defence services; compulsory social security services	Education services	Health and social work services	Sewage and refuse disposal services, sanitation and similar services	Membership organisation services n.e.c.	Recreational, cultural and sporting services	Other services	Private households with employed persons	Financial intermediation services indirectly measured (FISIM)	Total
No			74	75	80	85	90	91	92	93	95	60	61
			51	52	53	54	55	56	57	58	59	60	61
1	01	Products of agriculture, hunting and	11	888	53	486	8	8	79	7			35 462
2	02	Products of forestry, logging and re	3	1		1		1		1			2 414
3	05	Fish and other fishing products; services incident		1		19			8				394
4	10	Coal and lignite; peat		19	1	1							3 768
5	11	Crude petroleum and natural gas; s	72	173	104	143	3	15	26	20			27 000
6	12	Uranium and thorium ores											
7	13	Metal ores											2 319
8	14	Other mining and quarrying products		267	2	4	68						5 997
9	15	Food products and beverages	13	852	249	4 086		61	66	21			40 241
10	16	Tobacco products											102
11	17	Textiles	20	69	10	215		14	18	4			9 068
12	18	Wearing apparel; furs	2	11		249	1	13	92	3			2 143
13	19	Leather and leather products		54	1	6	3		14				1 729
14	20	Wood and products of wood and c	45	198	181	72	56	4	40	428			16 650
15	21	Pulp, paper and paper products	528	312	172	170	18	29	55	9			25 299
16	22	Printed matter and recorded media	4 300	1 164	950	633	148	193	443	82			29 141
17	23	Coke, refined petroleum products a	315	561	284	358	66	32	135	72			23 781
18	24	Chemicals, chemical products and	683	343	166	5 297	183	35	77	130			72 548
19	25	Rubber and plastic products	290	330	37	172	132	9	5				38 564
20	26	Other non-metallic mineral product	38	155	28	98	2	1		170			29 389
21	27	Basic metals	104	61	2		4						52 398
22	28	Fabricated metal products, except i	66	487	89	159	807	21	27	4			61 672
23	29	Machinery and equipment n.e.c.	33	1 988	28	125	242	3	3	21			50 588
24	30	Office machinery and computers	218	660	241	209	131	119	104	8			10 753
25	31	Electrical machinery and apparatus	72	96	85	147	34	6	30	5			52 474
26	32	Radio, television and communicati	48	320	35	42			168	4			20 115
27	33	Medical, precision and optical instr	33	104	47	3 914	1	2	31				9 674
28	34	Motor vehicles, trailers and semi-trailers		68									81 357
29	35	Other transport equipment		2 525		7							10 858
30	36	Furniture; other manufactured gooc	23	40	55	55	2	54	46	2			5 428
31	37	Secondary raw materials					625						3 361
32	40	Electrical energy, gas, steam and h	473	863	924	1 377	34	92	253	277			37 007
33	41	Collected and purified water, distrib	179	180	241	321	17	22	165	205			4 403
34	45	Construction work	1 311	2 195	969	2 358	572	214	414	138			42 989
35	50	Trade, maintenance and repair ser	399	927	156	222	332	11	147	32			18 811
36	51	Wholesale trade and commission t	430	1 106	405	3 454	782	128	457	84			81 934
37	52	Retail trade services, except of mc	202	399	194	1 405	62	64	211	100			10 109
38	55	Hotel and restaurant services	580	1 194	119	268	27	194	456	59			9 692
39	60	Land transport; transport via pipelir	101	655	2 229	52	8	84	122	12			44 106
40	61	Water transport services		25									2 814
41	62	Air transport services	658	837	30	87	31	55	317	38			8 370
42	63	Supporting and auxiliary transport s	90	101		3		4	36	5			66 004
43	64	Post and telecommunication servic	1 815	2 327	112	1 229	387	262	1 717	110			50 969
44	65	Financial intermediation services, e	3 271	5 337	409	2 480	254	790	558	669			73 145
45	66	Insurance and pension funding ser	280	790	684	332	204	165	111	36			23 124
46	67	Services auxiliary to financial intermediation		33									26 212
47	70	Real estate services	8 808	3 191	690	4 430	497	372	958	325			108 499
48	71	Renting services of machinery and	470	639	410	1 225	917	216	492	403			41 232
49	72	Computer and related services	1 589	1 415	806	1 307	755	126	318	43			28 756
50	73	Research and development services		2 164	607	380	342						11 446
51	74	Other business services	51 160	5 421	1 107	6 937	4 172	479	1 865	530			243 662
52	75	Public administration and defence :	705	1 861	129	531	188	238	123	26			14 035
53	80	Education services	719	858	6 619	187	24	143	78	12			15 097
54	85	Health and social work services	9	88	70	4 165			108				5 337
55	90	Sewage and refuse disposal servic	315	1 421	127	1 111	658	19	143	22			13 610
56	91	Membership organisation services	793	629	143	578	129	1 366	117	115			8 976
57	92	Recreational, cultural and sporting	6 979	755	346	300		136	13 503	16			26 280
58	93	Other services	2 539	80	32	1 049	297	24	612	3 945			13 751
59	95	Private households with employed persons											
60		Total	90 792	47 238	20 378	52 456	13 223	5 824	24 748	8 193			1 755 057
61		Taxes less subsidies on products	1 015	5 790	1 833	5 895	984	434	1 927	186			49 973
62		Total intermediate consumption/Fin	91 807	53 028	22 211	58 351	14 207	6 258	26 675	8 379			1 805 030
63		Compensation of employees	81 757	101 629	80 699	91 257	4 885	15 712	17 998	5 801	6 260		1 129 610
64		Other net taxes on production	350	- 379	- 809	- 4 434	- 460	- 178	- 361	441			10 670
65		Consumption of fixed capital	5 931	19 412	7 752	14 986	7 159	663	9 086	1 156			321 880
66		Operating surplus, net	85 744		916	35 634	649	85	10 412	20 672			471 030
67		Operating surplus, gross	91 675	19 412	8 668	50 620	7 808	748	19 498	21 828			792 910
68		Value added at basic prices	173 782	120 662	88 558	137 443	12 233	16 282	37 135	28 070	6 260		1 933 190
69		Output at basic prices	265 589	173 690	110 769	195 794	26 440	22 540	63 810	36 449	6 260		3 738 220
70		Imports cif intra EU 2)	5 675	200		127			1 374	244			317 700
71		Imports cif extra EU 2)	7 347	774			114		2 483	218			299 260
72		Imports cif	13 022	974		241			3 857	462			616 960
73		Supply at basic prices	278 611	174 664	110 769	195 794	26 681	22 540	67 667	36 911	6 260		4 355 180

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valubles.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-15: continuance Table A-9

		Table 17: Input-output table at basic prices									
		Year	Germany		Mio. EUR		current prices				
		2002					FINAL USES				
		HOMOGENEOUS BRANCHES	Final consumption expenditure by households	Final consumption expenditure by non-profit organisations serving households (NPISH)	Final consumption expenditure by government	Final consumption expenditure	Gross fixed capital formation	Changes in valuables <sup>1)</sup>	Changes in inventories	Changes in inventories and valuables	Gross capital formation
		PRODUCTS (CPA)									
No	Code		62	63	64	65	66	67	68	69	70
1	01	Products of agriculture, hunting and	16 322			16 322	3 341		- 288	- 288	3 053
2	02	Products of forestry, logging and re	710			710	10		83	83	93
3	05	Fish and other fishing products; sea	284			284			1	1	1
4	10	Coal and lignite; peat	386			386			- 154	- 154	- 154
5	11	Crude petroleum and natural gas; ex	4 850		71	4 921	60		396	396	456
6	12	Uranium and thorium ores									
7	13	Metal ores							4	4	4
8	14	Other mining and quarrying produc	87			87			- 3	- 3	- 3
9	15	Food products and beverages	91 932		250	92 182			696	696	696
10	16	Tobacco products	4 070			4 070			- 339	- 339	- 339
11	17	Textiles	7 974			7 974	229		- 1 681	- 1 681	- 1 452
12	18	Wearing apparel; furs	20 244			20 244	5		- 3 065	- 3 065	- 3 060
13	19	Leather and leather products	6 197			6 197			- 834	- 834	- 834
14	20	Wood and products of wood and cr	787			787	3 337		78	78	3 415
15	21	Pulp, paper and paper products	3 111			3 111			- 321	- 321	- 321
16	22	Printed matter and recorded media	17 789			17 789	1 165		- 2 139	- 2 139	- 974
17	23	Coke, refined petroleum products a	15 534		71	15 605			- 1 592	- 1 592	- 1 592
18	24	Chemicals, chemical products and	13 229		10 157	23 386			- 602	- 602	- 602
19	25	Rubber and plastic products	4 132			4 132	542		- 169	- 169	373
20	26	Other non-metallic mineral product	2 863			2 863	242		62	62	304
21	27	Basic metals					998		689	689	1 687
22	28	Fabricated metal products, except i	4 145			4 145	12 180		- 247	- 247	11 933
23	29	Machinery and equipment n.e.c.	7 811			7 811	47 283		- 1 052	- 1 052	46 231
24	30	Office machinery and computers	3 516			3 516	13 992		- 363	- 363	13 629
25	31	Electrical machinery and apparatus	1 472			1 472	10 876		- 1 565	- 1 565	9 311
26	32	Radio, television and communicati	4 961			4 961	8 878		- 408	- 408	8 470
27	33	Medical, precision and optical instr	4 922		3 140	8 062	12 664		- 617	- 617	12 047
28	34	Motor vehicles, trailers and semi-tr	48 530			48 530	21 567		- 89	- 89	21 478
29	35	Other transport equipment	3 185		226	3 411	7 285		- 2 717	- 2 717	4 568
30	36	Furniture; other manufactured good	20 470		71	20 541	6 271		- 358	- 358	5 913
31	37	Secondary raw materials							- 5	- 5	- 5
32	40	Electrical energy, gas, steam and h	22 576		143	22 719					
33	41	Collected and purified water, distrib	4 694			4 694					
34	45	Construction work	3 770			3 770	157 646				157 646
35	50	Trade, maintenance and repair ser	30 800			30 800	5 900				5 900
36	51	Wholesale trade and commission t	32 210		2 263	34 473	10 279				10 279
37	52	Retail trade services, except of mo	126 896		9 534	136 430	1 500				1 500
38	55	Hotel and restaurant services	56 597			56 597					
39	60	Land transport; transport via pipelir	19 067		143	19 210					
40	61	Water transport services	927			927					
41	62	Air transport services	7 739			7 739					
42	63	Supporting and auxiliary transport s	6 060		2 570	8 630					
43	64	Post and telecommunication servic	31 110			31 110					
44	65	Financial intermediation services, e	29 834			29 834					
45	66	Insurance and pension funding ser	36 137			36 137					
46	67	Services auxiliary to financial intern	619			619			- 6 300	- 6 300	- 6 300
47	70	Real estate services	205 247		214	205 461	4 193				4 193
48	71	Renting services of machinery and	3 624			3 624					
49	72	Computer and related services	1 082			1 082	19 120				19 120
50	73	Research and development services		3 110	5 890	9 000					
51	74	Other business services	9 369			9 369	10 970				10 970
52	75	Public administration and defence s	4 098		154 070	158 168	1 227				1 227
53	80	Education services	10 822	9 280	75 570	95 672					
54	85	Health and social work services	47 114	9 650	133 693	190 457					
55	90	Sewage and refuse disposal servic	13 050		21	13 071					
56	91	Membership organisation services	2 424	10 570	570	13 564					
57	92	Recreational, cultural and sporting	25 047	3 070	8 723	36 840	3 220		129	129	3 349
58	93	Other services	23 117			23 117					
59	95	Private households with employed	6 260			6 260					
60		Total	1 069 803	35 680	407 390	1 512 873	364 980		- 22 770	- 22 770	342 210
61		Taxes less subsidies on products	128 277		4 410	132 687	27 990				27 990
62		Total intermediate consumption/Fin	1 198 080	35 680	411 800	1 645 560	392 970		- 22 770	- 22 770	370 200
63		Compensation of employees									
64		Other net taxes on production									
65		Consumption of fixed capital									
66		Operating surplus, net									
67		Operating surplus, gross									
68		Value added at basic prices									
69		Output at basic prices									
70		Imports cif intra EU 2)									
71		Imports cif extra EU 2)									
72		Imports cif									
73		Supply at basic prices									

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-16: continuance Table A-9

Table 17: Input-output table at basic prices

Year 2002		FINAL USES				current prices	
No	Code	PRODUCTS (CPA)	Exports intra EU <sup>2)</sup>	Exports extra EU <sup>2)</sup>	Exports	Final uses	Total use
			fob	fob			
		HOMOGENEOUS BRANCHES	71	72	73	74	75
1	01	Products of agriculture, hunting and	3 108	1 535	4 643	24 018	59 480
2	02	Products of forestry, logging and re	266	123	389	1 192	3 606
3	05	Fish and other fishing products; sei	210	16	226	511	905
4	10	Coal and lignite; peat	201	35	236	468	4 236
5	11	Crude petroleum and natural gas; c	397	111	508	5 885	32 885
6	12	Uranium and thorium ores					
7	13	Metal ores	25	36	61	65	2 384
8	14	Other mining and quarrying produc	707	335	1 042	1 126	7 123
9	15	Food products and beverages	17 816	6 040	23 856	116 734	156 975
10	16	Tobacco products	1 342	460	1 802	5 533	5 635
11	17	Textiles	5 487	6 184	11 671	18 193	27 261
12	18	Wearing apparel; furs	4 903	2 253	7 156	24 340	26 483
13	19	Leather and leather products	1 711	1 441	3 152	8 515	10 244
14	20	Wood and products of wood and ct	2 495	1 667	4 162	8 364	25 014
15	21	Pulp, paper and paper products	9 713	5 527	15 240	18 030	43 329
16	22	Printed matter and recorded media	5 703	3 694	9 397	26 212	55 353
17	23	Coke, refined petroleum products s	4 516	3 150	7 666	21 679	45 460
18	24	Chemicals, chemical products and	40 118	35 047	75 165	97 949	170 497
19	25	Rubber and plastic products	13 107	9 323	22 430	26 935	65 499
20	26	Other non-metallic mineral product	4 833	3 688	8 521	11 688	41 077
21	27	Basic metals	19 995	13 437	33 432	35 119	87 517
22	28	Fabricated metal products, except i	12 482	9 454	21 936	38 014	99 686
23	29	Machinery and equipment n.e.c.	40 665	50 811	91 476	145 518	196 106
24	30	Office machinery and computers	10 067	5 897	15 964	33 109	43 862
25	31	Electrical machinery and apparatus	15 351	15 977	31 328	42 111	94 585
26	32	Radio, television and communicati	17 357	14 502	31 859	45 290	65 405
27	33	Medical, precision and optical instr	11 092	14 155	25 247	45 356	55 030
28	34	Motor vehicles, trailers and semi-tr	69 596	59 542	129 138	199 146	280 503
29	35	Other transport equipment	16 322	15 798	32 120	40 099	50 957
30	36	Furniture; other manufactured gooc	7 066	4 322	11 388	37 842	43 270
31	37	Secondary raw materials				- 5	3 356
32	40	Electrical energy, gas, steam and t	2 612	1 478	4 090	26 809	63 816
33	41	Collected and purified water, distrib				4 694	9 097
34	45	Construction work	87	17	104	161 520	204 509
35	50	Trade, maintenance and repair ser	123	3 434	3 557	40 257	59 068
36	51	Wholesale trade and commission t	21 175	12 785	33 960	78 712	160 646
37	52	Retail trade services, except of mc	42	94	136	138 066	148 175
38	55	Hotel and restaurant services	2 132	1 590	3 722	60 319	70 011
39	60	Land transport; transport via pipeli	3 448	2 429	5 877	25 087	69 193
40	61	Water transport services	3 250	6 342	9 592	10 519	13 333
41	62	Air transport services	2 063	3 617	5 680	13 419	21 789
42	63	Supporting and auxiliary transport s	3 607	2 643	6 250	14 880	80 884
43	64	Post and telecommunication servic	1 350	894	2 244	33 354	84 323
44	65	Financial intermediation services, c	2 298	7 703	10 001	39 835	112 980
45	66	Insurance and pension funding ser	2 995	5 074	8 069	37 906	61 030
46	67	Services auxiliary to financial intern	728	311	1 039	1 658	27 870
47	70	Real estate services	194	666	860	210 514	319 013
48	71	Renting services of machinery and equipment without operator and of personal				3 624	44 856
49	72	Computer and related services	3 123	4 016	7 139	27 341	56 097
50	73	Research and development service	2 103	2 321	4 424	13 424	24 870
51	74	Other business services	6 986	7 624	14 610	34 949	278 611
52	75	Public administration and defence :	1 234		1 234	160 629	174 664
53	80	Education services				95 672	110 769
54	85	Health and social work services				190 457	195 794
55	90	Sewage and refuse disposal services, sanitation and similar services				13 071	26 681
56	91	Membership organisation services n.e.c.				13 564	22 540
57	92	Recreational, cultural and sporting	401	797	1 198	41 387	67 667
58	93	Other services	5	38	43	23 160	36 911
59	95	Private households with employed persons				6 260	6 260
60		Total	396 607	348 433	745 040	2 600 123	4 355 180
61		Taxes less subsidies on products	- 337	- 323	- 660	160 017	209 990
62		Total intermediate consumption/Fir	396 270	348 110	744 380	2 760 140	4 565 170
63		Compensation of employees					
64		Other net taxes on production					
65		Consumption of fixed capital					
66		Operating surplus, net					
67		Operating surplus, gross					
68		Value added at basic prices					
69		Output at basic prices					
70		Imports cif intra EU 2)					
71		Imports cif extra EU 2)					
72		Imports cif					
73		Supply at basic prices					

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.  
2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-17: Symmetric Input-Output Table for Sweden

Year		Sweden									
2000		Mio. NAC									
		current prices									
		HOMOGENEOUS BRANCHES									
		Products of agriculture, hunting and related services	Products of forestry, logging and related services	Fish and other fish products; services of incidental fishing	Coal and lignite; peat	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying	Uranium and thorium ores	Metal ores	Other mining and quarrying products	Food products and beverages	Tobacco products
		01	02	05	10	11	12	13	14	15	16
		1	2	3	4	5	6	7	8	9	10
No	Code	PRODUCTS (CPA)									
1	01	Products of agriculture, hunting	3 200	45		9			1	25 026	222
2	02	Products of forestry, logging and	6	723					1	2	
3	05	Fish and other fishing products;	10	1						492	
4	10	Coal and lignite; peat	360			27		40	9	7	
5	11	Crude petroleum and natural gas	1								
6	12	Uranium and thorium ores									
7	13	Metal ores						162	1		
8	14	Other mining and quarrying products	134	1	14	59	3	127	77	77	
9	15	Food products and beverages	4 469	1		13			1	23 969	38
10	16	Tobacco products									
11	17	Textiles	76	1	78				3	95	2
12	18	Wearing apparel; furs	47	89				24	2	5	
13	19	Leather and leather products	1							1	
14	20	Wood and products of wood and	210	83	37	12	1	25	41	181	
15	21	Pulp, paper and paper products	55	9	10	1	1	16	13	2 070	68
16	22	Printed matter and recorded media	90	53	3	3	1	29	23	316	6
17	23	Coke, refined petroleum products	1 030	402	112	22	1	105	167	357	1
18	24	Chemicals, chemical products and	1 655	40	8	10	1	187	86	1 011	47
19	25	Rubber and plastic products	33	13		10		16	81	1 930	79
20	26	Other non-metallic mineral products	268	2		10		172	145	368	
21	27	Basic metals	112	3				68	33	3	
22	28	Fabricated metal products, except	185	89	12	54	2	188	53	1 359	4
23	29	Machinery and equipment n.e.c.	2 613	555		64	2	617	210	818	8
24	30	Office machinery and computer	21	4	5	9		4	2	106	2
25	31	Electrical machinery and apparatus	14	3	10	1		29	13	38	1
26	32	Radio, television and communication	1	4					12	5	
27	33	Medical, precision and optical instruments, watches		1					1	2	
28	34	Motor vehicles, trailers and semi-trailers	79			18	1	1			
29	35	Other transport equipment		12	99			16	5	9	
30	36	Furniture; other manufactured goods	4	4					5	7	
31	37	Secondary raw materials	1						2	270	
32	40	Electrical energy, gas, steam and hot water	556	79		31	1	387	51	786	8
33	41	Collected and purified water, district heating	1	1		7		2	33	172	
34	45	Construction work	815	423	1	6		200	61	438	9
35	50	Trade, maintenance and repair services	2 928	355	72	41	2	302	252	3 062	20
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles									
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods									
38	55	Hotel and restaurant services	52	20		3		20	22	330	5
39	60	Land transport; transport via pipeline	242	25	30	173	7	531	478	3 794	80
40	61	Water transport services	1	1		8		17	70	209	
41	62	Air transport services	182	78				10	78	125	
42	63	Supporting and auxiliary transport services	115	6	9	58	2	158	203	2 014	22
43	64	Post and telecommunication services	249	49		6		33	34	566	7
44	65	Financial intermediation services	227	26	8	9		22	38	306	3
45	66	Insurance and pension funding; reinsurance	253	23	2	2		4	13	49	2
46	67	Services auxiliary to financial institutions	102	9		1		13	13	127	1
47	70	Real estate services	36	19		14	1	24	50	779	2
48	71	Renting services of machinery and equipment	141	11	5	10		41	42	262	2
49	72	Computer and related services	26	70	3	7		57	49	638	8
50	73	Research and development services	1	18		12		157	31	277	18
51	74	Other business services	681	391		83	3	592	225	5 909	175
52	75	Public administration and defence	204	31	2	19	1	18	55	321	3
53	80	Education services	2	11		3			5	83	3
54	85	Health and social work services	257	20	3	2		7	5	61	1
55	90	Sewage and refuse disposal services; recycling and recovery	2	1					1	154	
56	91	Membership organisation services	80	30		5		10	23	146	2
57	92	Recreational, cultural and sports services	5						3		
58	93	Other services						2	1	23	
59	95	Private households with employed persons									
60		Total	21 833	3 835	520	822	31	4 433	2 823	79 155	849
61		Direct purchases abroad by residents	32	24		8		33	81	264	3
62		Purchases on the domestic territory by non-residents									
63		Taxes less subsidies on products	1 733	593	7	26	1	58	87	- 871	9
64		Total intermediate consumption	23 598	4 452	527	856	32	4 524	2 991	78 548	861
65		Compensation of employees	6 324	4 347	199	197	7	1 738	1 042	18 355	279
66		Other net taxes on production	- 2 250	238	- 22	5		83	53	832	15
67		Consumption of fixed capital	6 523	1 495	204	172	6	1 529	590	6 227	96
68		Operating surplus, net	2 632	17 354	161	- 89	- 4	- 534	794	4 819	1 162
69		Operating surplus, gross	9 155	18 849	365	83	2	995	1 384	11 046	1 258
70		Value added at basic prices	13 229	23 434	542	285	9	2 816	2 479	30 233	1 552
71		Output at basic prices	36 827	27 886	1 069	1 141	41	7 340	5 470	108 781	2 413
72		Imports cif extra EU 2)									
73		Imports cif extra EU 2)									
74		Imports cif	11 568	4 679	2 631	1 483	40 018	1 512	2 332	31 124	721
75		Supply at basic prices	48 395	32 565	3 700	2 624	40 059	8 852	7 802	139 905	3 134

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) the split of imports into Intra EU/ Extra EU is voluntarily



Table A-18: continuance Table A-17

Year		Table 17: Input-output table at basic prices									
2000		Sweden									
		Mio. NAC									
		current prices									
		HOMOGENEOUS BRANCHES									
		Textiles	Wearing apparel; furs	Leather and leather products	Wood and of products of wood and cork (except furniture); articles of straw and plaiting materials	Pulp, paper and paper products	Printed matter and recorded media	Coke, refined petroleum products and nuclear fuels	Chemicals and chemical products	Rubber and plastic products	Other non-metallic mineral products
Code		17	18	19	20	21	22	23	24	25	26
PRODUCTS (CPA)		11	12	13	14	15	16	17	18	19	20
No											
1	01	Products of agriculture, hunting	40	62	15	1	4	3	44	91	
2	02	Products of forestry, logging and related servi		1		13 515	8 306	20	78	96	24
3	05	Fish and other fishing products; services incidental of fishing									
4	10	Coal and lignite; peat	1			1	53	1	8	5	116
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying						37 803	82		
6	12	Uranium and thorium ores									
7	13	Metal ores			1				5	3	13
8	14	Other mining and quarrying prod	1			1	324	1	33	333	44
9	15	Food products and beverages	10	4	252	1	555	38	18	565	54
10	16	Tobacco products									2
11	17	Textiles	1 854	673	35	20	233	15	36	68	61
12	18	Wearing apparel; furs	52	70	2	2		2	1	1	
13	19	Leather and leather products	4	32	147	2	1	84	4	12	32
14	20	Wood and products of wood and	72	1	7	6 762	5 687	42	1	89	176
15	21	Pulp, paper and paper products	152	11	8	166	15 082	6 252	14	849	838
16	22	Printed matter and recorded me	36	14	8	301	203	8 453	20	440	194
17	23	Coke, refined petroleum produc	49	4	5	230	812	59	2 534	2 649	215
18	24	Chemicals, chemical products a	860	23	124	725	5 154	1 172	819	18 896	5 760
19	25	Rubber and plastic products	160	30	35	372	413	153	72	1 081	2 747
20	26	Other non-metallic mineral prod	55	4	3	493	100	5	27	421	72
21	27	Basic metals	60	3	2	454	704	70	296	444	421
22	28	Fabricated metal products, exce	54	8	31	2 779	89	194	321	478	451
23	29	Machinery and equipment n.e.c	91	9	18	1 041	1 980	666	387	725	615
24	30	Office machinery and computer	9	8	2	60	114	40	9	89	37
25	31	Electrical machinery and appar	8	2	4	170	87	77	31	152	81
26	32	Radio, television and communic	1			10	2	165	4	146	338
27	33	Medical, precision and optical in	1		1	1	1	26	3	83	140
28	34	Motor vehicles, trailers and sem	8			6	1	4	21	6	166
29	35	Other transport equipment	1			30	14	11	4	12	3
30	36	Furniture; other manufactured g	26	7	12	245	5	26	4	40	130
31	37	Secondary raw materials					275		74	3	76
32	40	Electrical energy, gas, steam ar	94	10	23	696	4 300	220	217	1 278	347
33	41	Collected and purified water, dis	24	2	4	72	162	38	12	69	39
34	45	Construction work	37	7	8	305	579	196	140	351	149
35	50	Trade, maintenance and repair	195	40	59	1 613	4 275	683	308	1 612	1 019
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles									
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods									
38	55	Hotel and restaurant services	39	6	11	58	239	309	19	361	223
39	60	Land transport; transport via pip	279	57	22	5 399	7 206	1 973	212	2 296	976
40	61	Water transport services	8	7	1	290	271	192	140	109	24
41	62	Air transport services	28	9		130	134	152	5	94	90
42	63	Supporting and auxiliary transp	95	21	7	1 397	1 994	773	103	871	316
43	64	Post and telecommunication sei	47	23	14	184	271	3 754	45	823	459
44	65	Financial intermediation service	34	5	5	476	425	248	20	260	129
45	66	Insurance and pension funding	8	2	2	80	148	87	43	42	25
46	67	Services auxiliary to financial int	10	3	1	416	579	12	68	206	87
47	70	Real estate services	21	7	11	251	434	1 611	66	384	108
48	71	Renting services of machinery a	61	15	14	340	399	856	8	200	169
49	72	Computer and related services	112	22	17	225	145	618	100	1 561	412
50	73	Research and development ser	59	3	4	33	1 092	140	36	1 212	227
51	74	Other business services	409	77	66	1 912	3 329	5 484	497	8 973	3 300
52	75	Public administration and defen	34	15	5	222	243	235	74	520	159
53	80	Education services	22			85	317	23	69	10	43
54	85	Health and social work services	10	3	2	40	58	67	3	51	26
55	90	Sewage and refuse disposal sei	13	3	2	49	226	36	29	29	50
56	91	Membership organisation servic	49	15	14	184	153	123	13	120	148
57	92	Recreational, cultural and sporting services					46	2 835			1
58	93	Other services	2	1	3	20	23	8		22	8
59	95	Private households with employed persons									5
60		Total	5 295	1 319	1 007	41 865	67 247	38 252	44 745	49 219	21 398
61		Direct purchases abroad by resi	68	18	5	143	278	269	25	687	257
62		Purchases on the domestic territory by non-residents									115
63		Taxes less subsidies on produc	53	11	6	245	665	164	40	228	98
64		Total intermediate consumption	5 416	1 348	1 018	42 253	68 190	38 685	44 810	50 134	21 753
65		Compensation of employees	2 463	511	360	10 803	15 344	18 075	1 294	15 208	8 407
66		Other net taxes on production	101	25	20	333	785	- 758	62	698	332
67		Consumption of fixed capital	452	91	80	2 991	8 287	5 857	1 172	5 374	1 788
68		Operating surplus, net	590	248	- 15	4 274	13 197	5 443	2 237	16 603	1 980
69		Operating surplus, gross	1 042	339	65	7 265	21 484	11 300	3 409	21 977	3 768
70		Value added at basic prices	3 606	875	445	18 401	37 613	28 617	4 765	37 883	12 507
71		Output at basic prices	9 022	2 223	1 463	60 654	105 803	67 302	49 575	88 017	34 260
72		Imports cif intra EU 2)									21 330
73		Imports cif extra EU 2)									
74		Imports cif	12 761	17 453	5 813	6 039	11 582	6 148	19 946	61 880	20 236
75		Supply at basic prices	21 783	19 676	7 276	66 693	117 385	73 450	69 521	149 897	54 496

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) the split of imports into Intra EU/ Extra EU is voluntary

Table A-19: continuance Table A-17

Year		Sweden									
2000		Mio. NAC									
		current prices									
		HOMOGENEOUS BRANCHES									
		Basic metals	Fabricated metal products, except machinery and equipment	Machinery and equipment n.e.c.	Office machinery and computers	Electrical machinery and apparatus n.e.c.	Radio, television and communication equipment and apparatus	Medical, precision and optical instruments, watches and clocks	Motor vehicles, trailers and semi-trailers	Other transport equipment	Furniture; other manufactured goods n.e.c.
Code		27	28	29	30	31	32	33	34	35	36
PRODUCTS (CPA)		21	22	23	24	25	26	27	28	29	30
No											
1	01			4			1				
2	02	21	6	24	2	3	1	1	1		35
3	05										
4	10	988	17	6		7	2			1	116
5	11		202					314			
6	12										
7	13	3 724	68	20							
8	14	179	61	63	1	33	1	2	35		9
9	15	2	2	14		3	2	6			36
10	16										
11	17	5	84	70	2	60	21	34	595	124	425
12	18	61	4	221	8	3	1	2	1	2	32
13	19		8	86	5	18	5	206	1	4	254
14	20	337	489	467	19	405	59	53	163	566	3 715
15	21	150	300	540	34	203	1 468	488	240	42	144
16	22	355	412	792	86	356	5 154	458	464	281	114
17	23	959	258	289	6	72	70	46	236	78	117
18	24	965	1 476	1 148	32	1 169	1 968	256	1 142	327	1 308
19	25	114	594	1 969	111	1 457	4 339	730	4 293	437	1 019
20	26	459	402	438	18	213	97	136	895	110	393
21	27	26 932	12 541	6 873	192	3 199	1 331	677	4 318	699	2 362
22	28	1 993	14 004	8 831	374	1 631	3 236	744	6 412	1 761	2 025
23	29	1 436	1 564	19 704	589	1 290	1 422	758	4 748	1 585	285
24	30	70	92	666	202	52	1 090	182	63	91	29
25	31	291	797	4 654	88	3 539	8 833	1 523	3 243	374	135
26	32	10	86	4 436	136	907	33 250	1 399	455	100	15
27	33	7	118	596	43	122	1 911	4 249	1 124	182	9
28	34	61	214	3 057	67	19	30	31	48 132	466	135
29	35	63	34	182	5	10	55	7	21	5 390	16
30	36	47	606	203	7	222	690	34	2 902	35	1 343
31	37	2 072	25	13			1	1			
32	40	1 614	728	667	17	176	217	94	587	172	178
33	41	44	117	124	5	51	278	45	152	25	95
34	45	550	339	451	15	82	138	101	233	137	177
35	50	7 631	3 569	7 210	298	1 566	7 591	1 433	8 160	1 185	1 351
36	51										
37	52										
38	55	133	307	549	37	236	778	255	315	65	150
39	60	1 502	1 255	1 828	44	557	1 258	361	2 480	424	676
40	61	227	181	118	13	69	103	13	118	14	87
41	62	102	301	292	12	91	428	91	241	61	119
42	63	604	488	696	26	195	1 012	134	1 089	120	250
43	64	289	602	1 189	70	550	4 387	624	740	177	265
44	65	319	248	553	39	230	1 254	173	626	109	252
45	66	114	85	76	3	11	86	8	102	17	4
46	67	373	307	539	33	211	1 234	177	784	132	133
47	70	233	832	779	43	149	697	205	286	29	116
48	71	608	398	383	19	127	960	206	135	46	216
49	72	389	778	1 428	151	736	2 732	665	2 014	263	307
50	73	357	288	2 202	85	1 226	6 647	332	4 940	304	68
51	74	3 294	4 454	8 438	466	3 847	24 415	3 416	11 712	1 507	1 789
52	75	173	405	401	15	114	647	144	379	83	112
53	80	153	191	120	18	149	14	11	209	7	9
54	85	40	92	117	5	32	66	29	100	24	60
55	90	174	105	125	7	40	403	36	199	5	33
56	91	159	161	233	13	114	595	136	264	79	303
57	92		2	24			1	1			1
58	93	5	21	44	4	8	61	13	16	12	30
59	95										
60	Total	60 388	50 718	83 952	3 465	25 560	121 040	21 040	115 365	17 652	20 852
61	Direct purchases abroad by resi	286	351	837	51	236	2 288	421	972	191	101
62	Purchases on the domestic territory by non-residents										
63	Taxes less subsidies on produc	410	239	373	13	101	480	92	453	102	73
64	Total intermediate consumption	61 084	51 308	85 162	3 529	25 897	123 808	21 553	116 790	17 945	21 026
65	Compensation of employees	11 365	23 685	34 183	1 724	9 394	18 378	8 638	23 394	7 563	10 542
66	Other net taxes on production	511	1 104	1 660	83	231	878	437	1 094	297	-2 863
67	Consumption of fixed capital	3 883	4 086	5 265	579	1 278	4 077	961	6 650	980	827
68	Operating surplus, net	3 102	6 197	10 346	77	1 942	-2 743	2 033	13 373	1 414	781
69	Operating surplus, gross	6 985	10 283	15 611	656	3 220	1 334	2 994	20 023	2 394	1 608
70	Value added at basic prices	18 861	35 072	51 454	2 463	12 845	20 590	12 069	44 511	10 254	9 287
71	Output at basic prices	79 945	86 380	136 616	5 992	38 742	144 398	33 622	161 301	28 199	30 313
72	Imports cif intra EU 2)										
73	Imports cif extra EU 2)										
74	Imports cif	41 512	18 416	66 673	33 027	37 841	75 034	22 724	69 521	21 750	16 865
75	Supply at basic prices	121 457	104 796	203 289	39 019	76 583	219 432	56 346	230 822	49 949	47 178

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) the split of imports into Intra EU/ Extra EU is voluntary

Table A-20: continuance Table A-17

Year		Sweden									
2000		Mio. NAC									
		HOMOGENEOUS BRANCHES									
		Recovered secondary raw materials	Electrical energy, gas, steam and hot water	Collected and purified water, distribution services of water	Construction work	Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel	Wholesale trade and commission trade, except of motor vehicles and motorcycles	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods	Hotels and restaurants services	Land transport; transport via pipelines services	Water transport services
Code		37	40	41	45	50	51	52	55	60	61
PRODUCTS (CPA)		31	32	33	34	35	36	37	38	39	40
No											
1	01	Products of agriculture, hunting and related s	88			172	1 450		552	41	27
2	02	Products of forestry, logging and	5	149		168	311			30	
3	05	Fish and other fishing products; services incidental of fishing					48		354		19
4	10	Coal and lignite; peat		479		58	19		1	4	
5	11	Crude petroleum and natural gas; services in		1 110		23	88				
6	12	Uranium and thorium ores									
7	13	Metal ores		16		1	27				
8	14	Other mining and quarrying prod	31	65	94	2 325	113		19	42	2
9	15	Food products and beverages		9		49	2 114		11 971	126	745
10	16	Tobacco products									
11	17	Textiles		3		112	411		230	61	22
12	18	Wearing apparel; furs				25	229		244	180	14
13	19	Leather and leather products			1	33	99		6	1	
14	20	Wood and products of wood and	3	1 810	15	9 090	1 010		55	345	28
15	21	Pulp, paper and paper products	10	193	25	224	1 882		154	362	55
16	22	Printed matter and recorded me	8	87	9	526	3 502		494	1 123	170
17	23	Coke, refined petroleum produc	114	2 450	22	1 891	1 665		160	3 795	2 315
18	24	Chemicals, chemical products e	81	848	451	980	2 227		252	510	61
19	25	Rubber and plastic products	6	22	60	1 024	3 872		476	454	6
20	26	Other non-metallic mineral prod	46	51	91	9 703	486		726	116	
21	27	Basic metals	478	218	104	2 873	1 778		33	54	8
22	28	Fabricated metal products, exce	126	118	428	7 275	2 916		161	399	76
23	29	Machinery and equipment n.e.c	47	750	131	3 794	2 383		214	389	32
24	30	Office machinery and computer	2	11	3	47	356		13	47	15
25	31	Electrical machinery and appar	3	421	86	2 040	2 598		146	392	69
26	32	Radio, television and communication equipm		49	4	4 138	4 915		24	91	2
27	33	Medical, precision and optical in	1	106	46	81	831		73	14	
28	34	Motor vehicles, trailers and sem	3	3	1	43	11 272		60	207	
29	35	Other transport equipment		49	8	16	196		85	2 089	1 807
30	36	Furniture; other manufactured goods n.e.c.		2		1 446	636		236	24	2
31	37	Secondary raw materials		12		108	122		1	2	
32	40	Electrical energy, gas, steam ar	42	3 878	331	410	2 332		526	1 032	6
33	41	Collected and purified water, distribution serv		173		66	226		119	4	
34	45	Construction work	12	1 943	879	1 850	1 718		417	543	6
35	50	Trade, maintenance and repair	265	749	186	6 892	7 509		3 896	5 988	311
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles									
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods									
38	55	Hotel and restaurant services	3	112	31	214	1 727		339	929	149
39	60	Land transport; transport via pip	558	259	112	3 544	11 343		724	18 111	28
40	61	Water transport services		6		14	361		173	16	5 455
41	62	Air transport services		42		399	1 356		260	694	81
42	63	Supporting and auxiliary transp	165	67	26	157	8 497		828	3 922	7 192
43	64	Post and telecommunication services		256	40	428	3 611		742	1 773	157
44	65	Financial intermediation service	21	178	79	595	1 882		294	416	441
45	66	Insurance and pension funding services, exce		307	278	89	324		57	831	381
46	67	Services auxiliary to financial int	4	87	35	46	382		22	188	186
47	70	Real estate services	3	290		591	7 344		6 430	1 281	131
48	71	Renting services of machinery e	14	35	221	2 988	1 747		206	910	252
49	72	Computer and related services	133	323	97	687	5 520		426	1 151	490
50	73	Research and development ser	39	82		30	2 048		15	588	123
51	74	Other business services	146	1 867	221	9 072	35 825		2 588	4 325	1 689
52	75	Public administration and defen	3	331	39	379	800		306	694	63
53	80	Education services	9	12	1	76	357		61	51	3
54	85	Health and social work services	4	17	146	392	416		78	137	16
55	90	Sewage and refuse disposal sei	3	11		26	571		161	338	35
56	91	Membership organisation servic	22	54	42	202	660		135	364	34
57	92	Recreational, cultural and sporti	1	1		320	1 439		538	49	
58	93	Other services				39	82		261	286	28
59	95	Private households with employed persons									
60		Total	2 411	20 199	4 343	77 771	145 633		36 342	55 519	22 732
61		Direct purchases abroad by resi	20	94	3	509	1 427		120	587	137
62		Purchases on the domestic territory by non-residents									
63		Taxes less subsidies on produc	32	1 690	173	2 020	3 572		2 685	5 007	34
64		Total intermediate consumption	2 463	21 983	4 519	80 300	150 632		39 147	61 113	22 903
65		Compensation of employees	357	9 625	1 915	64 500	144 945		22 017	32 178	4 452
66		Other net taxes on production	15	2 149	70	2 665	7 210		937	2 209	- 615
67		Consumption of fixed capital	97	11 516	3 274	7 598	22 954		3 844	11 954	1 529
68		Operating surplus, net	286	16 202	826	3 462	34 333		7 043	9 554	2 111
69		Operating surplus, gross	383	27 718	4 100	11 060	57 287		10 887	21 508	3 640
70		Value added at basic prices	755	39 492	6 085	78 225	209 442		33 841	55 895	7 477
71		Output at basic prices	3 218	61 475	10 604	158 525	360 074		72 988	117 008	30 380
72		Imports cif intra EU 2)									
73		Imports cif extra EU 2)									
74		Imports cif		1 788			4 508		597	1 278	6 226
75		Supply at basic prices	3 218	63 263	10 604	158 525	364 582		73 585	118 286	36 606

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) the split of imports into Intra EU/ Extra EU is voluntarily

Table A-21: continuance Table A-17

Year		Sweden										current prices		
2000		HOMOGENEOUS BRANCHES												
No	Code	PRODUCTS (CPA)	Air transport services	Supporting and auxiliary transport services; travel agency services	Post and telecommunications services	Financial intermediation services, except insurance and pension funding services	Insurance and pension funding services, except compulsory social security services	Services auxiliary to financial intermediation	Real estate services	Renting of machinery and equipment without operator and of personal and household goods	Computer and related services	Research and development services		
			62	63	64	65	66	67	70	71	72	73		
			41	42	43	44	45	46	47	48	49	50		
1	01	Products of agriculture, hunting and related services		157		1	8	1	6	145	105	179	27	
2	02	Products of forestry, logging and related services		58						102	43	73	100	
3	05	Fish and other fishing products; services incidental		4						1	3	4		
4	10	Coal and lignite; peat				2				4	5	4	2	
5	11	Crude petroleum and natural gas; services incidental		3		3				15	12	95		
6	12	Uranium and thorium ores												
7	13	Metal ores								3	6	8	1	
8	14	Other mining and quarrying products		461						377	24	15	10	
9	15	Food products and beverages		216		2		10		161	145	198	123	
10	16	Tobacco products												
11	17	Textiles	4	73		42	26	2		56	42	108	95	
12	18	Wearing apparel; furs	12	111		168	3	1		56	14	61	22	
13	19	Leather and leather products	2	1		40	1	2		18	8	33	4	
14	20	Wood and products of wood and wood products	19	308		6		1		2 598	148	274	136	
15	21	Pulp, paper and paper products	21	244		305	151	23		16	451	245	1 192	449
16	22	Printed matter and recorded media	54	1 094		2 893	1 685	348		60	1 338	587	4 752	2 485
17	23	Coke, refined petroleum products	1 599	928		183	61	6		12	796	166	179	60
18	24	Chemicals, chemical products and preparations	36	297		110	17	1			668	200	427	305
19	25	Rubber and plastic products	11	132		98	108	6			627	194	1 119	418
20	26	Other non-metallic mineral products	8	86				2			1 542	85	239	79
21	27	Basic metals	46	103		60	2				321	214	400	515
22	28	Fabricated metal products, except machinery and equipment n.e.c.	32	346		441	21	1			1 513	379	2 026	763
23	29	Machinery and equipment n.e.c.	17	195		178	24	1		1	1 076	1 549	1 538	1 077
24	30	Office machinery and computer equipment	3	35		122	22	21			84	57	148	44
25	31	Electrical machinery and apparatus	16	272		473	70	12			772	323	1 003	486
26	32	Radio, television and communication equipment	20	62		3 140	73	2		1	561	169	1 556	448
27	33	Medical, precision and optical instruments	1	167		100	15	8			189	66	211	227
28	34	Motor vehicles, trailers and semi-trailers	10	18		10					106	708	652	2 227
29	35	Other transport equipment	1 408	295		85	15	2		46	693	305	138	76
30	36	Furniture; other manufactured goods	7	49		18	27	2		9	572	57	148	197
31	37	Secondary raw materials		2							5	8	11	4
32	40	Electrical energy, gas, steam and hot water	22	765		211	63	261		4	3 872	233	213	206
33	41	Collected and purified water, district heating	9	61		1		125			6 612	21	36	46
34	45	Construction work	67	1 915		1 581	471	507		3	35 663	190	207	409
35	50	Trade, maintenance and repair services	446	1 618		777	199	36		21	3 963	1 737	1 893	1 272
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles												
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods												
38	55	Hotel and restaurant services	1 584	1 229		1 124	1 055	165		89	1 284	493	2 203	441
39	60	Land transport; transport via pipeline	31	2 755		577	197	39		29	929	816	1 360	586
40	61	Water transport services		76		17	6				7	22	60	15
41	62	Air transport services	346	8 662		712	126	48		51	494	184	601	249
42	63	Supporting and auxiliary transport services	6 129	4 983		274	267	159		16	365	465	1 537	136
43	64	Post and telecommunication services	139	1 981		11 620	2 169	512		427	2 627	597	2 953	413
44	65	Financial intermediation services	416	738		613	7 247	313		220	1 548	146	417	105
45	66	Insurance and pension funding services	22	282		214	36	1 878		2	2 584	51	120	14
46	67	Services auxiliary to financial intermediation	109	296		290	922	183		144	321	24	31	75
47	70	Real estate services	1 646	4 049		3 170	4 232	869		1 161	17 781	2 085	3 536	2 953
48	71	Renting services of machinery and equipment	1 737	1 157		923	261	49		156	390	351	768	202
49	72	Computer and related services	307	2 099		3 331	1 286	235		374	1 086	1 692	8 609	568
50	73	Research and development services	52	475		878	55	2		1	162	140	580	1 521
51	74	Other business services	1 425	4 911		4 633	7 967	1 944		1 054	9 825	3 659	15 937	2 904
52	75	Public administration and defence	21	1 081		266	364	158		42	727	105	354	128
53	80	Education services	3	338		27	142	216		162	365	273	1 396	281
54	85	Health and social work services	12	114		113	53	23		6	207	40	126	205
55	90	Sewage and refuse disposal services	70	123							9 282	110	342	46
56	91	Membership organisation services	46	227		275	179	30			146	91	284	108
57	92	Recreational, cultural and sporting services	6	283		1 486	252	27		1	97	192	179	12
58	93	Other services	58	133		182	4	1		1	45	17	141	67
59	95	Private households with employed persons												
60		Total	18 029	46 068		41 775	29 882	8 232		4 115	115 232	19 601	60 674	23 342
61		Direct purchases abroad by residents	77	6 740		491	69	116		77	212	238	1 500	327
62		Purchases on the domestic territory by non-residents												
63		Taxes less subsidies on products	29	2 398		437	3 694	1 227		620	20 885	393	585	1 033
64		Total intermediate consumption	18 135	55 206		42 703	33 645	9 575		4 812	136 329	20 232	62 759	24 702
65		Compensation of employees	6 287	20 669		27 903	26 263	10 160		4 461	32 660	9 632	46 452	15 818
66		Other net taxes on production	148	884		1 384	3 932	538		234	18 539	445	2 310	- 1 869
67		Consumption of fixed capital	2 279	15 081		8 597	4 150	2 502		739	35 860	4 770	6 370	2 525
68		Operating surplus, net	- 2 317	3 514		7 876	18 262	5 579		- 296	145 929	3 460	- 1 892	3 313
69		Operating surplus, gross	- 38	18 595		16 473	22 412	8 081		443	181 789	8 230	4 478	5 838
70		Value added at basic prices	6 397	40 148		45 760	52 607	18 779		5 138	232 988	18 307	53 240	19 787
71		Output at basic prices	24 532	95 354		88 463	86 252	28 354		9 950	369 317	38 539	115 999	44 489
72		Imports cif intra EU 2)												
73		Imports cif extra EU 2)												
74		Imports cif	8 021	9 063		7 388	5 645	2 521		333	48	1 957	11 132	11 806
75		Supply at basic prices	32 553	104 417		95 851	91 897	30 875		10 283	369 365	40 496	127 131	56 295

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) the split of imports into Intra EU/ Extra EU is voluntary

Table A-22: continuance Table A-17

2000			Sweden										Total
Year			HOMOGENEOUS BRANCHES										Total
PRODUCTS (CPA)			Other business services	Public administration and defence services; compulsory social security services	Education services	Health and social work services	Sewage and refuse disposal services, sanitation and similar services	Membership organisation services n.e.c.	Recreational, cultural and sporting services	Other services	Private households with employed persons	Financial intermediation services indirectly measured (FISIM)	Total
No	Code	PRODUCTS (CPA)	74	75	80	85	90	91	92	93	95	60	61
			51	52	53	54	55	56	57	58	59	60	61
1	01	Products of agriculture, hunting	190	40	91	211	84	23	716	12			33 094
2	02	Products of forestry, logging and	143	41			1						24 092
3	05	Fish and other fishing products;	2	4	3	15			8				968
4	10	Coal and lignite; peat	33				8			1			2 398
5	11	Crude petroleum and natural gas	20										39 771
6	12	Uranium and thorium ores											
7	13	Metal ores	86										4 145
8	14	Other mining and quarrying prod	244	52	4	13	70	12	28				7 013
9	15	Food products and beverages	174	794	1 104	2 643	111	24	361	1			51 136
10	16	Tobacco products											
11	17	Textiles	296	281	146	1 153	3	26	170	1			8 033
12	18	Wearing apparel; furs	102	331	34	115	38	18	27	133			2 572
13	19	Leather and leather products	23	94	8	208		28	73				1 590
14	20	Wood and products of wood and	1 070	93	114	49	8	25	183	750			37 981
15	21	Pulp, paper and paper products	2 546	398	498	742	119	165	121	97			40 104
16	22	Printed matter and recorded me	9 231	1 176	4 091	874	57	959	1 755	3			58 109
17	23	Coke, refined petroleum produc	742	590	145	396	239	124	112	27			30 167
18	24	Chemicals, chemical products a	2 851	299	234	3 390	68	152	241	558			62 729
19	25	Rubber and plastic products	1 489	609	149	833	106	54	67	139			34 593
20	26	Other non-metallic mineral prod	563	96	55	256	7	8	49	58			21 196
21	27	Basic metals	1 342	75	35	10	6	5	5	1			70 749
22	28	Fabricated metal products, exce	2 042	810	248	235	61	103	150	130			68 432
23	29	Machinery and equipment n.e.c.	1 532	3 510	182	95	78	65	33	157			62 964
24	30	Office machinery and computer:	174	269	46	28	3	8	18	9			4 658
25	31	Electrical machinery and appar	1 264	490	169	194	6	26	61	190			35 821
26	32	Radio, television and communic	1 700	2 730	72	18	18	3	6	6			61 296
27	33	Medical, precision and optical in	1 391	1 067	178	5 602	4	2	206	149			19 357
28	34	Motor vehicles, trailers and sem	1 300	198	7	14	4		2	2			69 370
29	35	Other transport equipment	260	4 519	45	144	3	4	5	12			18 314
30	36	Furniture; other manufactured g	555	663	324	435	1	224	174	31			12 449
31	37	Secondary raw materials	59										3 218
32	40	Electrical energy, gas, steam an	800	1 305	994	1 924	161	565	875	54			34 944
33	41	Collected and purified water, di	85	445	97	502	3	76	208	95			10 604
34	45	Construction work	948	5 220	1 528	1 009	92	1 133	770	24			65 187
35	50	Trade, maintenance and repair :	4 492	3 314	1 540	3 643	673	992	3 164	728			114 531
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles											
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods											
38	55	Hotel and restaurant services	7 597	1 247	919	1 619	249	607	913	161			31 089
39	60	Land transport; transport via pip	2 260	1 761	3 056	881	175	1 486	477	37			87 857
40	61	Water transport services	112	7	3	1							8 772
41	62	Air transport services	1 695	1 356	575	573	142	449	303	79			22 375
42	63	Supporting and auxiliary transp	2 817	661	312	342	94	1	505	1			53 240
43	64	Post and telecommunication ser	6 867	5 661	1 000	1 583	108	1 170	2 139	152			64 703
44	65	Financial intermediation service	1 149	413	196	75	146	59	234	90	44 930		69 063
45	66	Insurance and pension funding :	193	216	57	52	62	125	37	18			9 537
46	67	Services auxiliary to financial int	193	4	1		5		1				9 142
47	70	Real estate services	11 055	11 539	13 977	19 339	1 564	452	4 141	1 057			127 959
48	71	Renting services of machinery a	2 399	651	295	352	149	334	285	134			22 678
49	72	Computer and related services	14 462	3 288	654	1 082	288	248	468	201			62 876
50	73	Research and development ser	1 833	664	234	21	247	457	200	121			30 375
51	74	Other business services	51 635	12 077	3 061	6 119	1 327	2 724	4 645	897			289 033
52	75	Public administration and defen	899	2 000	4 578	6 142	46	126	994	78			25 414
53	80	Education services	2 058	2 234	1 586	954	8	279	138	15			12 692
54	85	Health and social work services	347	661	929	4 122	11	146	360	31			9 908
55	90	Sewage and refuse disposal ser	789	224	177	346	369	45	112	4			14 922
56	91	Membership organisation servic	762	6	86	6	98	97	104	55			7 337
57	92	Recreational, cultural and sporti	9 032	208	70	75	3	29	5 348				22 567
58	93	Other services	258	222	252	1 510	3	34	71	30			4 057
59	95	Private households with employed persons											
60		Total	156 161	74 613	44 159	69 945	7 126	13 694	31 064	6 528	44 930		2 097 181
61		Direct purchases abroad by resi	2 576	186	496	48	125	107	283	33			24 642
62		Purchases on the domestic territory by non-residents											
63		Taxes less subsidies on product	1 593	13 510	5 265	8 843	432	3 157	3 385	117			88 625
64		Total intermediate consumption	160 330	88 309	49 920	78 836	7 683	16 958	34 732	6 678	44 930		2 210 448
65		Compensation of employees	98 747	73 625	86 301	171 700	3 261	26 242	20 188	3 872	203		1 223 529
66		Other net taxes on production	4 232	1 430	3 080	6 410	120	- 756	- 486	156	11		59 605
67		Consumption of fixed capital	17 306	18 600	7 042	5 735	2 155	963	3 355	684			274 093
68		Operating surplus, net	21 080	123	1 860	5 353	1 679	- 689	11 251	2 771	57	- 44 930	365 078
69		Operating surplus, gross	38 386	18 723	8 902	11 088	3 834	274	14 606	3 455	57	- 44 930	639 171
70		Value added at basic prices	141 365	93 778	98 283	189 198	7 215	25 760	34 308	7 483	271	- 44 930	1 922 305
71		Output at basic prices	301 695	182 087	148 203	268 034	14 898	42 718	69 040	14 161	271		4 132 753
72		Imports cif intra EU 2)											
73		Imports cif extra EU 2)											
74		Imports cif	67 975	38			180		1 943				812 222
75		Supply at basic prices	369 670	182 125	148 203	268 034	15 078	42 718	70 983	14 161	271		4 944 975

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.  
2) the split of imports into Intra EU/ Extra EU is voluntarily

Table A-23: continuance Table A-17

Year		Sweden		Mio. NAC		current prices					
2000						FINAL USES					
HOMOGENEOUS BRANCHES		Final consumption expenditure by households	Final consumption expenditure by non-profit organisations serving households (NPISH)	Final consumption expenditure by government	Final consumption expenditure	Gross fixed capital formation	Changes in valuables 1)	Changes in inventories	Changes in inventories and valuables	Gross capital formation	
No	Code	PRODUCTS (CPA)	62	63	64	65	66	67	68	69	70
1	01	Products of agriculture, hunting	10 622			10 622	403		- 175	- 175	228
2	02	Products of forestry, logging and	794			794	1 058		6 027	6 027	7 085
3	05	Fish and other fishing products;	323			323					
4	10	Coal and lignite; peat	155			155			- 15	- 15	- 15
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying							275	275	275
6	12	Uranium and thorium ores									
7	13	Metal ores							1	1	1
8	14	Other mining and quarrying products	58			58			150	150	150
9	15	Food products and beverages	73 977		92	74 069			- 1 354	- 1 354	- 1 354
10	16	Tobacco products	2 989			2 989			- 131	- 131	- 131
11	17	Textiles	6 084			6 084			53	53	53
12	18	Wearing apparel; furs	12 948			12 948			14	14	14
13	19	Leather and leather products	4 084			4 084			129	129	129
14	20	Wood and products of wood and	832			832			393	393	393
15	21	Pulp, paper and paper products	1 486		277	1 763			70	70	70
16	22	Printed matter and recorded media	11 593			11 593			6	6	6
17	23	Coke, refined petroleum products	12 442			12 442			- 532	- 532	- 532
18	24	Chemicals, chemical products and	8 789		10 506	19 295			- 291	- 291	- 291
19	25	Rubber and plastic products	1 882		343	2 225			- 337	- 337	- 337
20	26	Other non-metallic mineral products	1 318			1 318			430	430	430
21	27	Basic metals	94			94			1 122	1 122	1 122
22	28	Fabricated metal products, except	1 613			1 613	12 025		591	591	12 616
23	29	Machinery and equipment n.e.c.	3 140			3 140	41 424		1 205	1 205	42 629
24	30	Office machinery and computers	1 789			1 789	25 669		345	345	26 014
25	31	Electrical machinery and apparatus	2 301			2 301	8 391		- 322	- 322	8 069
26	32	Radio, television and communication	5 641			5 641	14 588		5 823	5 823	20 411
27	33	Medical, precision and optical instruments	1 467		409	1 876	12 476		86	86	12 562
28	34	Motor vehicles, trailers and semi-trailers	33 745			33 745	25 405		1 885	1 885	27 290
29	35	Other transport equipment	3 138			3 138	10 799		- 527	- 527	10 272
30	36	Furniture; other manufactured goods	13 332			13 332	5 287		783	783	6 070
31	37	Secondary raw materials									
32	40	Electrical energy, gas, steam and hot water	27 968			27 968					
33	41	Collected and purified water, distribution services of water									
34	45	Construction work	17			17	93 321				93 321
35	50	Trade, maintenance and repair services	145 274		5 669	150 943	26 119				26 119
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles									
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods									
38	55	Hotel and restaurant services	42 496			42 496					
39	60	Land transport; transport via pipeline	21 040		1 906	22 946					
40	61	Water transport services	959			959					
41	62	Air transport services	4 172			4 172					
42	63	Supporting and auxiliary transport services	21 540		23 836	45 376					
43	64	Post and telecommunication services	25 222			25 222					
44	65	Financial intermediation services	16 404			16 404					
45	66	Insurance and pension funding; reinsurance and pension reserves	16 953			16 953					
46	67	Services auxiliary to financial institutions	785			785					
47	70	Real estate services	239 384			239 384	2 022				2 022
48	71	Renting services of machinery and equipment	15 262			15 262					
49	72	Computer and related services	699			699	51 465		36	36	51 501
50	73	Research and development services			13 384	13 384			- 11	- 11	- 11
51	74	Other business services	2 869		838	3 707	26 580		337	337	26 917
52	75	Public administration and defence	1 467		153 856	155 323					
53	80	Education services	2 636		132 875	135 511					
54	85	Health and social work services	36 006		222 120	258 126					
55	90	Sewage and refuse disposal services, sanitation and similar services									
56	91	Membership organisation services n.e.c.		35 348	33	35 381					
57	92	Recreational, cultural and sports services	28 630		16 066	44 696	1 904	407	- 14	393	2 297
58	93	Other services	10 104			10 104					
59	95	Private households with employment	271			271					
60		Total	876 794	35 348	582 210	1 494 352	358 936	407	16 052	16 459	375 395
61		Direct purchases abroad by residents	49 837			49 837					
62		Purchases on the domestic territory less subsidies on products	- 38 534			- 38 534					
63		Taxes less subsidies on products	154 916		1 227	156 143	30 075		8	8	30 083
64		Total intermediate consumption	1 043 013	35 348	583 437	1 661 798	389 011	407	16 060	16 467	405 478
65		Compensation of employees									
66		Other net taxes on production									
67		Consumption of fixed capital									
68		Operating surplus, net									
69		Operating surplus, gross									
70		Value added at basic prices									
71		Output at basic prices									
72		Imports cif intra EU 2)									
73		Imports cif extra EU 2)									
74		Imports cif									
75		Supply at basic prices									

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.  
2) the split of imports into Intra EU/ Extra EU is voluntarily

Table A-24: continuance Table A-17

Year		current prices							
2000									
No	Code	PRODUCTS (CPA)	FINAL USES				Total use excluding Unallocated	Unallocated	Total use including Unallocated
			Exports intra EU fob	Exports extra EU fob	Exports	Final uses			
			71	72	73	74	75	76	77
1	01	Products of agriculture, hunting and related services			4 451	15 301	48 395		48 395
2	02	Products of forestry, logging and related services			594	8 473	32 565		32 565
3	05	Fish and other fishing products; services incidental of fishing			2 409	2 732	3 700		3 700
4	10	Coal and lignite; peat			86	226	2 624		2 624
5	11	Crude petroleum and natural gas; services incidental to oil			13	288	40 059		40 059
6	12	Uranium and thorium ores							
7	13	Metal ores			4 706	4 707	8 852		8 852
8	14	Other mining and quarrying products			581	789	7 802		7 802
9	15	Food products and beverages			16 054	88 769	139 905		139 905
10	16	Tobacco products			276	3 134	3 134		3 134
11	17	Textiles			7 613	13 750	21 783		21 783
12	18	Wearing apparel; furs			4 142	17 104	19 676		19 676
13	19	Leather and leather products			1 473	5 686	7 276		7 276
14	20	Wood and products of wood and cork (except furniture); articles of wood			27 487	28 712	66 693		66 693
15	21	Pulp, paper and paper products			75 448	77 281	117 385		117 385
16	22	Printed matter and recorded media			3 742	15 341	73 450		73 450
17	23	Coke, refined petroleum products and nuclear fuels			27 444	39 354	69 521		69 521
18	24	Chemicals, chemical products and man-made fibres			68 164	87 168	149 897		149 897
19	25	Rubber and plastic products			18 015	19 903	54 496		54 496
20	26	Other non-metallic mineral products			6 872	8 620	29 816		29 816
21	27	Basic metals			49 492	50 708	121 457		121 457
22	28	Fabricated metal products, except machinery and equipment			22 135	36 364	104 796		104 796
23	29	Machinery and equipment n.e.c.			94 556	140 325	203 289		203 289
24	30	Office machinery and computers			6 558	34 361	39 019		39 019
25	31	Electrical machinery and apparatus n.e.c.			30 392	40 762	76 583		76 583
26	32	Radio, television and communication equipment and apparatus			132 084	158 136	219 432		219 432
27	33	Medical, precision and optical instruments, watches and clocks			22 551	36 989	56 346		56 346
28	34	Motor vehicles, trailers and semi-trailers			100 417	161 452	230 822		230 822
29	35	Other transport equipment			18 225	31 635	49 949		49 949
30	36	Furniture; other manufactured goods n.e.c.			15 327	34 729	47 178		47 178
31	37	Secondary raw materials					3 218		3 218
32	40	Electrical energy, gas, steam and hot water			351	28 319	63 263		63 263
33	41	Collected and purified water, distribution services of water					10 604		10 604
34	45	Construction work				93 338	158 525		158 525
35	50	Trade, maintenance and repair services of motor vehicles and motorcycles			72 989	250 051	364 582		364 582
36	51	Wholesale trade and commission trade services, except of motor vehicles and motorcycles							
37	52	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods							
38	55	Hotel and restaurant services				42 496	73 585		73 585
39	60	Land transport; transport via pipeline services			7 483	30 429	118 286		118 286
40	61	Water transport services			26 875	27 834	36 606		36 606
41	62	Air transport services			6 006	10 178	32 553		32 553
42	63	Supporting and auxiliary transport services; travel agency services			5 801	51 177	104 417		104 417
43	64	Post and telecommunication services			5 926	31 148	95 851		95 851
44	65	Financial intermediation services, except insurance and pension funding			6 430	22 834	91 897		91 897
45	66	Insurance and pension funding services, except compulsory social security			4 385	21 338	30 875		30 875
46	67	Services auxiliary to financial intermediation			356	1 141	10 283		10 283
47	70	Real estate services				241 406	369 365		369 365
48	71	Renting services of machinery and equipment without operator			2 556	17 818	40 496		40 496
49	72	Computer and related services			12 055	64 255	127 131		127 131
50	73	Research and development services			12 547	25 920	56 295		56 295
51	74	Other business services			50 013	80 637	369 670		369 670
52	75	Public administration and defence services; compulsory social security			1 388	156 711	182 125		182 125
53	80	Education services				135 511	148 203		148 203
54	85	Health and social work services				258 126	268 034		268 034
55	90	Sewage and refuse disposal services, sanitation and similar services			156	156	15 078		15 078
56	91	Membership organisation services n.e.c.				35 381	42 718		42 718
57	92	Recreational, cultural and sporting services			1 423	48 416	70 983		70 983
58	93	Other services				10 104	14 161		14 161
59	95	Private households with employed persons				271	271		271
60		Total			978 047	2 847 794	4 944 975		4 944 975
61		Direct purchases abroad by residents				49 837	74 479		74 479
62		Purchases on the domestic territory by non-residents			38 534				
63		Taxes less subsidies on products			- 2 189	184 037	272 662		272 662
64		Total intermediate consumption/Final use at purchasers' prices			1 014 392	3 081 668	5 292 116		5 292 116
65		Compensation of employees							
66		Other net taxes on production							
67		Consumption of fixed capital							
68		Operating surplus, net						- 3 885	368 963
69		Operating surplus, gross						- 3 885	643 056
70		Value added at basic prices							
71		Output at basic prices							
72		Imports cif intra EU (2)							
73		Imports cif extra EU (2)							
74		Imports cif						74 479	886 701
75		Supply at basic prices							

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.  
2) the split of imports into Intra EU/ Extra EU is voluntarily

Table A-25: Symmetric Input-Output Table for Poland

Year		Poland										Mio. NAC		current prices
2000		HOMOGENEOUS BRANCHES												
		Products of agriculture, hunting and related services	Products of forestry, logging and related services	Fish and other fish products; services of incidental fishing	Coal and lignite; peat	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying	Uranium and thorium ores	Metal ores	Other mining and quarrying products	Food products and beverages	Tobacco products			
Code		01	02	05	10	11	12	13	14	15	16			
No	PRODUCTS (CPA)	1	2	3	4	5	6	7	8	9	10			
1	01	15 638	14	35	0			0		24 806	442			
2	02	10	1 281	0	11			8		66				
3	05	2	4	37	0			0		487				
4	10	357	16	0	332			21		346	0			
5	11													
6	12													
7	13	4	8	0	47			221		55				
8	14													
9	15	4 437	38	36	2			5		21 918	1			
10	16		0							0	427			
11	17	0	2	4	11			1		25				
12	18	3	20	1	20			5		64	3			
13	19	0	4	0	10			3		10	0			
14	20	76	80	0	59			5		56	0			
15	21	44	17	2	10			32		1 486	132			
16	22	6	25	1	5			2		129	10			
17	23	1 663	70	56	80			201		365	9			
18	24	2 506	44	3	138			55		796	52			
19	25	69	35	1	197			40		1 148	1			
20	26	218	11	4	41			33		449	2			
21	27	30	3	0	76			40		208	0			
22	28	433	38	1	603			35		484	3			
23	29	1 161	17	11	917			201		489	42			
24	30	2	3	0	6			2		18	2			
25	31	199	5	0	173			33		95	3			
26	32	1	6	1	10			1		6	0			
27	33	1	1	1	21			2		10	0			
28	34	70	68	2	10			32		159	4			
29	35	14	11	30	30			30		1				
30	36	16	14	2	21			6		79	17			
31	37	0	0		1			5		4				
32	40	1 060	18	6	1 095			243		1 000	34			
33	41	47	7	1	24			6		49	2			
34	45	153	93	1	120			43		211	13			
35	50	883	73	33	60			93		462	23			
36	51	5 991	221	41	449			134		14 707	385			
37	52	53	32	0	3			0		1 185	5			
38	55	7	3	0	52			8		98	11			
39	60	402	114	5	445			358		1 785	93			
40	61													
41	62	13	18	39	3			28		148	8			
42	63	26	1	37	21			19		85	9			
43	64	87	34	5	20			29		369	22			
44	65	25	5	1	13			32		207	9			
45	66	463	7	2	55			15		116	14			
46	67	3	0	0	5			1		40	3			
47	70	87	13	3	19			26		243	42			
48	71	68	14	3	284			58		311	10			
49	72	10	4	0	36			7		169	4			
50	73	9	0	0	35			6		51	3			
51	74	227	134	8	451			342		519	154			
52	75	0	0	0	0			0		4				
53	80	4	3	0	1			4		31	2			
54	85	266	2	1	6			3		108	2			
55	90	34	6	0	58			5		247	13			
56	91	1	0	0	0			3		3	0			
57	92	0	0	0	1			0		162	3			
58	93	12	6	1	171			28		173	33			
59	95													
60	Total	36 890	2 647	418	6 262			2 510		76 243	2 050			
61	Taxes less subsidies on produc	1 237	56	30	37			110		1 149	536			
62	Total intermediate consumption	38 127	2 703	449	6 299			2 620		77 392	2 585			
63	Compensation of employees	2 932	1 402	149	8 162			1 283		15 258	547			
64	Other net taxes on production	489	152	10	- 429			106		525	28			
65	Consumption of fixed capital													
66	Operating surplus, net													
67	Operating surplus, gross	16 174	811	21	2 886			1 735		3 800	578			
68	Value added at basic prices	19 595	2 365	181	10 619			3 124		19 583	1 153			
69	Output at basic prices	57 723	5 067	630	16 918			5 744		96 976	3 739			
70	Imports cif intra EU 2)	2 457	38	49	8			877		5 326	30			
71	Imports cif extra EU 2)	3 273	163	98	249			19 303		4 674	16			
72	Imports cif	5 730	201	147	257			20 180		10 000	46			
73	Supply at basic prices	63 453	5 268	777	17 175			25 924		106 976	3 785			

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.



Table A-26: continuance Table A-25

Year		8										current prices
2000		Mio. NAC										
Poland		HOMOGENEOUS BRANCHES										
HOMOGENEOUS BRANCHES		Textiles	Wearing apparel; furs	Leather and leather products	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials	Pulp, paper and paper products	Printed matter and recorded media	Coke, refined petroleum products and nuclear fuels	Chemicals and chemical products	Rubber and plastic products	Other non-metallic mineral products	
Code	PRODUCTS (CPA)	17	18	19	20	21	22	23	24	25	26	
No		11	12	13	14	15	16	17	18	19	20	
1	01	320	5	34	62	2	0	0	28	142	25	
2	02	2	4	2	1 603	493	1	0	7	7	7	
3	05	1		0		0	0	0		0		
4	10	28	12	5	27	150	0	945	209	13	491	
5	11											
6	12											
7	13	2	2	1	3	2	16	12 741	1 154	34	1 406	
8	14											
9	15	104	4	252	11	24	6	159	212	5	8	
10	16		3			0	0		0			
11	17	1 713	4 043	94	8	28	6	1	34	334	43	
12	18	9	221	7	7	3	1	1	10	4	18	
13	19	7	120	685	3	0	2	0	1	1	3	
14	20	9	3	11	2 981	52	3	2	38	35	153	
15	21	155	64	42	438	4 213	3 030	10	234	140	491	
16	22	7	16	5	10	25	2 119	6	117	26	46	
17	23	28	63	10	124	40	26	968	451	118	445	
18	24	901	61	217	777	543	465	659	7 246	3 434	1 015	
19	25	201	55	117	187	105	125	16	716	2 599	263	
20	26	25	97	20	283	16	40	9	201	461	2 852	
21	27	36	11	5	129	22	30	7	152	318	303	
22	28	21	21	14	494	32	13	16	120	453	241	
23	29	95	50	23	181	137	68	135	319	120	422	
24	30	4	8	1	5	3	26	3	12	10	8	
25	31	8	9	3	45	25	9	5	72	22	62	
26	32	1	1	0	1	1	4	1	3	3	3	
27	33	1	1	0	1	1	1	2	16	1	7	
28	34	3	11	2	34	6	6	4	15	21	56	
29	35				1	1	0	0	0	0	0	
30	36	7	37	11	87	15	42	7	64	28	76	
31	37	1	0	0	0	0	0	2	1	14	122	
32	40	361	169	77	403	440	150	132	1 323	442	1 053	
33	41	12	15	7	8	16	10	7	16	15	36	
34	45	28	40	10	135	120	51	84	225	144	346	
35	50	34	53	8	113	24	33	489	270	96	195	
36	51	866	897	282	1 182	1 029	986	266	2 581	1 126	1 159	
37	52	55	444	82	112	66	256	245	98	934	563	
38	55	10	20	5	17	19	52	3	94	36	49	
39	60	119	113	75	1 114	491	207	784	1 081	443	1 447	
40	61											
41	62	16	29	6	51	41	30	40	93	34	66	
42	63	2	2	1	8	6	13	20	89	5	64	
43	64	43	94	24	135	41	280	12	401	94	114	
44	65	18	33	6	39	12	104	47	41	59	70	
45	66	11	39	6	30	21	26	10	55	27	40	
46	67	3	6	1	3	1	5	1	5	13	22	
47	70	34	135	36	52	26	121	9	90	86	287	
48	71	54	66	42	102	65	123	63	90	135	214	
49	72	7	11	3	15	9	77	8	51	18	37	
50	73	5	1	1	7	150	25	15	76	10	28	
51	74	206	855	72	313	330	2 122	210	1 266	416	640	
52	75	0	1	0	1	0	1	0	1	1	1	
53	80	2	2	1	4	7	13	1	30	5	11	
54	85	3	6	1	6	3	10	1	10	4	9	
55	90	32	16	17	13	45	16	25	116	18	48	
56	91	0	0	0	0	23	3	0	1	0	15	
57	92	0	3	0	2	1	70	0	126	7	6	
58	93	9	68	4	17	7	99	12	26	26	39	
59	95											
60	Total	5 620	8 038	2 329	11 383	8 935	10 923	18 182	19 692	12 538	15 125	
61	Taxes less subsidies on produc	42	85	10	97	18	24	1 066	490	133	181	
62	Total intermediate consumption.	5 662	8 124	2 339	11 480	8 953	10 947	19 248	20 183	12 671	15 306	
63	Compensation of employees	1 585	4 412	844	1 931	1 020	3 435	789	3 547	2 695	4 005	
64	Other net taxes on production	61	97	19	207	77	97	51	218	60	307	
65	Consumption of fixed capital											
66	Operating surplus, net											
67	Operating surplus, gross	1 649	611	553	2 415	1 492	4 075	3 245	5 056	4 256	4 018	
68	Value added at basic prices	3 295	5 120	1 417	4 552	2 589	7 607	4 085	8 821	7 012	8 330	
69	Output at basic prices	8 957	13 243	3 756	16 033	11 543	18 554	23 332	29 004	19 683	23 636	
70	Imports cif intra EU 2)	7 686	873	1 682	1 303	6 068	814	2 062	19 533	7 188	3 696	
71	Imports cif extra EU 2)	2 135	1 148	806	830	1 537	287	2 365	7 684	1 820	1 281	
72	Imports cif	9 821	2 021	2 488	2 133	7 605	1 101	4 428	27 216	9 008	4 977	
73	Supply at basic prices	18 778	15 264	6 245	18 166	19 148	19 656	27 760	56 220	28 691	28 613	

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.

Table A-27: continuance Table A-25

		Table 17: Input-output table at basic prices									
		Mio. NAC									
		current prices									
		HOMOGENEOUS BRANCHES									
		Basic metals	Fabricated metal products, except machinery and equipment	Machinery and equipment n.e.c.	Office machinery and computers	Electrical machinery and apparatus n.e.c.	Radio, television and communication equipment and apparatus	Medical, precision and optical instruments, watches and clocks	Motor vehicles, trailers and semi-trailers	Other transport equipment	Furniture; other manufactured goods n.e.c.
		27	28	29	30	31	32	33	34	35	36
		21	22	23	24	25	26	27	28	29	30
No	Code	PRODUCTS (CPA)									
1	01	0	2	2	0				0	0	3
2	02	8	2	5		1			0	1	130
3	05			0	0				0	0	0
4	10	1 102	21	116	0	23	2	2	31	17	16
5	11										
6	12										
7	13	1 288	80	65		47	1	1	36	4	10
8	14										
9	15	13	17	12	3	3	1	3	3	2	194
10	16		0	0							1
11	17	27	15	26	0	12	2	3	581	12	943
12	18	38	18	15	0	5	2	2	8	11	10
13	19	4	4	3	0	1	0	1	208	3	152
14	20	62	137	54	0	78	18	33	68	51	2 921
15	21	84	95	69	1	88	12	33	53	7	343
16	22	8	31	35	4	14	4	8	26	6	17
17	23	492	320	121	4	69	8	11	104	28	167
18	24	506	698	369	3	641	97	116	457	210	657
19	25	93	491	461	2	954	72	128	964	56	491
20	26	446	521	255	4	599	194	81	177	40	258
21	27	8 272	5 344	2 998	59	1 822	158	196	1 363	766	277
22	28	476	2 754	1 993	11	455	56	204	3 709	578	539
23	29	725	783	1 837	8	48	14	153	571	453	55
24	30	14	12	40	305	43	21	23	16	5	12
25	31	1 105	124	1 120	21	1 356	101	312	940	271	17
26	32	2	4	54	18	199	3 787	45	212	112	1
27	33	10	4	44	4	28	1	253	17	25	16
28	34	13	140	336	0	12	4	4	6 625	10	132
29	35	0	0	0	0	0	0	0	0	2 129	0
30	36	28	54	113	1	126	24	20	17	48	990
31	37	262	245	61		7		3	10	0	8
32	40	2 363	566	621	12	247	184	79	560	196	248
33	41	39	31	34	4	11	5	8	18	12	11
34	45	127	495	462	2	207	44	63	244	103	60
35	50	30	123	203	4	53	10	15	2 446	244	142
36	51	1 598	1 530	796	64	1 029	933	281	944	484	1 489
37	52	5	60	665	0	79	8	10	79	12	192
38	55	11	84	86	3	33	31	35	35	20	25
39	60	1 176	575	522	33	267	168	118	1 136	174	511
40	61										
41	62	39	72	74	12	37	27	24	70	46	53
42	63	17	46	21	3	10	0	7	31	7	10
43	64	44	317	238	28	54	35	61	249	56	177
44	65	33	77	75	5	16	3	12	55	21	31
45	66	17	52	49	3	18	5	14	8	20	26
46	67	51	35	10	1	3	1	6	3	8	5
47	70	31	107	118	38	37	12	33	114	67	95
48	71	64	226	119	10	63	8	27	88	63	108
49	72	21	31	63	64	31	23	28	79	17	11
50	73	20	25	72	0	236	23	30	55	26	10
51	74	565	865	1 239	86	343	113	354	1 034	1 165	447
52	75	1	1	4	1	1	0	1	0	0	1
53	80	6	10	18	13	10	10	17	18	5	6
54	85	20	13	16	3	6	4	10	7	5	4
55	90	91	34	46	1	25	6	9	40	23	17
56	91	1	1	1	0	0	0	0	0	0	1
57	92	2	2	1	0	0	0	0	6	1	0
58	93	54	67	45	0	21	15	10	32	25	24
59	95										
60	Total	21 506	17 364	15 799	840	9 468	6 248	2 886	23 545	7 646	12 066
61	Taxes less subsidies on produc	91	132	107	2	46	16	11	154	31	141
62	Total intermediate consumption.	21 597	17 496	15 906	843	9 514	6 263	2 897	23 699	7 677	12 207
63	Compensation of employees	3 242	5 039	5 818	141	2 167	864	1 406	2 289	2 536	2 863
64	Other net taxes on production	226	155	226	19	59	20	38	148	111	99
65	Consumption of fixed capital										
66	Operating surplus, net										
67	Operating surplus, gross	1 892	5 105	2 441	160	2 939	1 540	477	4 040	561	3 008
68	Value added at basic prices	5 360	10 300	8 486	320	5 165	2 425	1 922	6 477	3 208	5 971
69	Output at basic prices	26 957	27 796	24 392	1 163	14 679	8 688	4 819	30 176	10 885	18 178
70	Imports cif intra EU 2)	6 991	6 266	19 752	2 525	5 989	7 271	2 438	15 850	1 375	2 718
71	Imports cif extra EU 2)	4 103	2 158	5 076	4 656	2 415	5 697	1 904	4 684	3 563	1 870
72	Imports cif	11 094	8 424	24 828	7 182	8 404	12 968	4 342	20 534	4 938	4 588
73	Supply at basic prices	38 051	36 220	49 220	8 345	23 083	21 656	9 161	50 710	15 823	22 766

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.

Table A-28: continuance Table A-25

		Table 17: Input-output table at basic prices									
		Mio. NAC									
		current prices									
		HOMOGENEOUS BRANCHES									
		Recovered secondary raw materials	Electrical energy, gas, steam and hot water	Collected and purified water, distribution services of water	Construction work	Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel	Wholesale trade and commission trade, except of motor vehicles and motorcycles	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods	Hotels and restaurants services	Land transport; transport via pipelines services	Water transport services
		37	40	41	45	50	51	52	55	60	61
		31	32	33	34	35	36	37	38	39	40
No	Code	PRODUCTS (CPA)									
1	01	0	3	0	25	6	539	1 016	240		76
2	02		1	0	52	1	23	41	9		10
3	05		0	0	0	0	40	1	42		0
4	10	1	8 045	11	40	57	54	406	33		71
5	11										
6	12										
7	13	3	6 580	8	877	1	55	42	6		70
8	14										
9	15	0	17	2	92	55	2 054	3 443	3 535		26
10	16		0		1	0	1	2	64		0
11	17	3	5	1	31	12	148	127	36		6
12	18	0	17	6	135	27	34	38	10		17
13	19	0	3	1	12	5	24	15	1		3
14	20	1	5	2	3 024	24	151	229	19		60
15	21	2	19	6	114	136	413	450	51		68
16	22	0	17	5	94	200	642	680	46		59
17	23	20	178	37	1 625	635	339	831	117		4 960
18	24	4	80	48	2 028	383	353	476	129		131
19	25	3	39	19	9 910	391	668	455	20		270
20	26	5	66	12	9 408	227	285	467	135		83
21	27	310	89	10	2 070	103	119	93	8		252
22	28	3	247	30	5 112	487	295	266	25		101
23	29	9	213	59	2 440	664	220	642	45		107
24	30	0	21	4	46	107	89	140	18		41
25	31	0	781	14	2 968	296	178	219	26		378
26	32	0	40	1	418	36	65	189	32		16
27	33	0	156	5	135	93	56	31	2		16
28	34	5	25	18	301	437	31	72	20		1 357
29	35				19			1	8		510
30	36	1	59	6	168	167	91	124	95		65
31	37	108	0	0	3	1	7	3			0
32	40	15	2 226	360	1 405	468	499	815	377		1 644
33	41	1	81	325	60	90	76	116	77		126
34	45	6	3 418	248	21 584	313	756	1 049	197		435
35	50	21	119	39	1 176	2 887	632	721	101		3 891
36	51	18	1 264	34	7 744	202	977	850	1 935		112
37	52	1	19	13	262	734	2 482	3 516	51		308
38	55	1	15	1	433	150	369	262	96		340
39	60	64	1 417	32	3 069	1 641	5 036	1 497	82		2 441
40	61										
41	62	2	70	4	172	113	536	157	12		187
42	63	1	7	0	58	62	2 479	1 399	17		265
43	64	4	297	43	791	1 771	1 346	1 009	99		641
44	65	2	121	5	294	382	547	497	42		124
45	66	1	170	12	242	128	149	186	19		216
46	67	0	7	1	95	64	77	59	6		36
47	70	3	116	22	581	909	1 374	2 292	221		132
48	71	9	152	12	1 383	374	507	455	65		946
49	72	1	131	7	131	128	384	263	15		96
50	73	1	51	2	38	5	132	31	4		9
51	74	21	2 379	53	3 416	1 971	3 765	4 210	341		795
52	75	0	2	0	10	2	11	9	4		2
53	80	0	19	1	41	24	81	48	5		25
54	85	0	16	2	39	21	29	48	7		21
55	90	12	211	159	194	73	172	121	38		223
56	91	0	43	1	2	1	9	12	1		2
57	92	0	1	0	3	17	156	24	7		0
58	93	2	44	4	192	66	147	91	126		38
59	95										
60	Total	664	29 104	1 687	84 565	17 144	29 708	30 232	8 714		21 811
61	Taxes less subsidies on produc	11	90	21	1 017	370	674	776	1 314		3 445
62	Total intermediate consumption	675	29 194	1 708	85 581	17 514	30 381	31 008	10 029		25 255
63	Compensation of employees	148	7 615	929	23 552	6 224	12 977	15 229	3 930		12 069
64	Other net taxes on production	4	516	171	958	341	773	915	310		662
65	Consumption of fixed capital										
66	Operating surplus, net										
67	Operating surplus, gross	235	7 305	778	24 093	11 472	42 648	39 769	5 043		9 283
68	Value added at basic prices	387	15 437	1 879	48 604	18 037	56 398	55 913	9 283		22 014
69	Output at basic prices	1 062	44 631	3 587	134 185	35 551	86 780	86 921	19 311		47 269
70	Imports cif intra EU 2)		8		3 411	5			444		3 360
71	Imports cif extra EU 2)		76		2 147	4			281		1 628
72	Imports cif		85		5 557	9			725		4 988
73	Supply at basic prices	1 062	44 716	3 587	139 742	35 560	86 780	86 921	20 036		52 257

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.

Table A-29: continuance Table A-25

Year		Poland									
2000		Mio. NAC									
HOMOGENEOUS BRANCHES		HOMOGENEOUS BRANCHES									
		Air transport services	Supporting and auxiliary transport services; travel agency services	Post and telecommunications services	Financial intermediation services, except insurance and pension funding services	Insurance and pension funding services, except compulsory social security services	Services auxiliary to financial intermediation	Real estate services	Renting of machinery and equipment without operator and of personal and household goods	Computer and related services	Research and development services
Code		62	63	64	65	66	67	70	71	72	73
No		41	42	43	44	45	46	47	48	49	50
1	01	0	32	0	0	0	1	52	0	0	9
2	02	0	1	0	0	0	5	0	0	1	0
3	05	0	1	0	0	0	0	0	0	0	4
4	10	0	8	8	13	9	279	196	1	1	3
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying									
6	12	Uranium and thorium ores									
7	13	Metal ores									
8	14	Other mining and quarrying products									
9	15	13	218	15	177	32	10	34	1	9	12
10	16	0	2	0	0	0	0	0	0	0	0
11	17	0	3	7	1	0	0	6	6	0	7
12	18	0	9	7	50	0	0	10	0	0	2
13	19	0	4	4	1	0	0	1	0	0	0
14	20	0	30	5	13	0	0	213	0	3	3
15	21	1	73	115	99	72	68	164	15	25	18
16	22	8	126	286	385	340	143	129	13	75	34
17	23	276	495	60	243	306	88	991	38	22	14
18	24	8	62	33	105	1	11	319	28	5	66
19	25	0	34	42	56	72	1	48	3	5	15
20	26	2	37	44	115	0	8	1 017	75	6	22
21	27	2	16	9	4	0	0	69	33	0	40
22	28	1	23	94	16	2	294	7	19	28	28
23	29	3	50	84	19	3	153	222	24	37	37
24	30	1	18	73	111	78	16	24	5	225	8
25	31	7	15	288	38	4	1	258	3	35	41
26	32	3	15	662	66	0	12	22	1	23	41
27	33	0	5	2	1	1	1	9	0	15	42
28	34	1	149	26	156	0	5	49	22	14	3
29	35	Other transport equipment									
30	36	1	58	97	36	23	37	99	26	45	16
31	37	Secondary raw materials									
32	40	7	169	219	143	26	208	10 266	31	25	87
33	41	2	22	14	19	5	22	1 739	3	2	9
34	45	1	148	471	40	2	20	6 824	148	51	29
35	50	121	454	98	279	228	28	109	51	39	13
36	51	Wholesale trade and commission trade services, except of									
37	52	45	125	234	16	14	1 130	0	80	6	6
38	55	146	1 071	51	54	41	39	40	9	75	24
39	60	45	3 719	184	40	6	132	472	54	111	39
40	61	Water transport services									
41	62	569	905	56	30	7	16	27	7	65	22
42	63	992	2 779	5	1	8	8	0	0	2	1
43	64	66	1 218	4 015	487	357	499	789	45	520	65
44	65	5	86	239	11 158	43	278	246	18	29	5
45	66	14	43	22	49	47	55	54	83	21	6
46	67	0	14	43	386	122	1 469	32	1	4	1
47	70	26	348	575	2	80	192	1 455	81	192	9
48	71	963	186	701	11	1	61	61	721	87	2
49	72	15	52	591	45	51	130	87	13	782	14
50	73	14	45	88	0	6	22	0	66	359	14
51	74	27	466	5 522	174	101	596	3 298	175	774	92
52	75	0	1	1	0	1	1	4	0	1	1
53	80	1	21	14	14	40	35	61	2	52	8
54	85	2	7	17	5	5	24	0	5	30	0
55	90	8	40	57	2	9	1 785	33	5	12	12
56	91	0	1	0	0	5	1	5	0	1	1
57	92	7	69	131	1	1	35	6	2	1	1
58	93	1	18	26	4	48	173	0	10	8	8
59	95	Private households with employed persons									
60	Total	3 720	13 580	15 680	14 863	2 213	4 685	33 147	2 083	3 581	1 430
61	Taxes less subsidies on produc	159	649	184	1 546	829	476	2 972	22	12	166
62	Total intermediate consumption.	3 879	14 229	15 864	16 409	3 042	5 160	36 119	2 105	3 593	1 596
63	Compensation of employees	580	4 615	7 721	8 771	1 761	918	9 361	1 414	2 295	1 680
64	Other net taxes on production	18	157	388	1 212	4	17	1 213	14	34	- 148
65	Consumption of fixed capital										
66	Operating surplus, net										
67	Operating surplus, gross	- 21	3 899	4 738	- 7 043	3 988	1 996	28 930	5 924	2 210	648
68	Value added at basic prices	576	8 672	12 846	2 941	5 754	2 931	39 504	7 352	4 539	2 180
69	Output at basic prices	4 455	22 902	28 710	19 350	8 796	8 092	75 623	9 457	8 132	3 776
70	Imports cif intra EU 2)	2 415	2 615	1 362	1 147	1 332	665	1 078	101	64	64
71	Imports cif extra EU 2)	1 752	1 544	847	727	901	425	633	1680	64	64
72	Imports cif	4 166	4 160	2 209	1 874	2 233	1 090	1 711	165	165	165
73	Supply at basic prices	8 621	27 061	30 919	21 223	11 029	8 092	75 623	10 547	9 843	3 940

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuations.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.

Table A-30: continuance Table A-25

Year			Poland										Total
2000			HOMOGENEOUS BRANCHES										Total
PRODUCTS (CPA)			Other business services	Public administration and defence services; compulsory social security services	Education services	Health and social work services	Sewage and refuse disposal services, sanitation and similar services	Membership organisation n.e.c.	Recreational, cultural and sporting services	Other services	Private households with employed persons	Financial intermediation services indirectly measured (FISIM)	Total
No	Code	PRODUCTS (CPA)	74	75	80	85	90	91	92	93	95	60	61
			51	52	53	54	55	56	57	58	59	60	61
1	01	Products of agriculture, hunting	49	129	6	130	6	7	1	14			43 904
2	02	Products of forestry, logging and	2	1	0	0	7	0	0	6			3 810
3	05	Fish and other fishing products;	0	0	0	5	0	0	0				625
4	10	Coal and lignite; peat	17	7	9	19	12	27	1	31			13 638
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying											
6	12	Uranium and thorium ores											
7	13	Metal ores	83	38	2	0	26	2	4	77			25 164
8	14	Other mining and quarrying products											
9	15	Food products and beverages	838	281	159	517	3	64	308	137			39 525
10	16	Tobacco products	0	0	0			0	0				502
11	17	Textiles	121	43	2	9	0	6	17	14			8 582
12	18	Wearing apparel; furs	53	252	3	3	4	3	27	5			1 222
13	19	Leather and leather products	4	1	0	0	0	0	4	0			1 311
14	20	Wood and products of wood and	58	31	15	1	5	8	33	144			11 065
15	21	Pulp, paper and paper products	695	181	156	20	3	31	136	37			14 496
16	22	Printed matter and recorded me	2 230	351	881	110	9	69	622	15			10 282
17	23	Coke, refined petroleum produc	312	375	138	33	136	12	75	117			18 519
18	24	Chemicals, chemical products a	1 002	320	67	2 186	25	32	153	383			31 105
19	25	Rubber and plastic products	494	129	10	11	28	7	49	6			22 373
20	26	Other non-metallic mineral prod	643	106	44	62	33	50	240	90			20 619
21	27	Basic metals	212	83	9	2	4	7	43	3			26 216
22	28	Fabricated metal products, exce	1 211	225	11	11	31	22	68	13			22 442
23	29	Machinery and equipment n.e.c	258	359	21	62	25	3	26	48			14 829
24	30	Office machinery and computer	73	10	13	3	2	0	6	4			1 738
25	31	Electrical machinery and appare	612	281	68	131	6	15	243	49			13 089
26	32	Radio, television and communic	372	147	43	16	1	10	241	27			6 975
27	33	Medical, precision and optical in	77	36	4	462	0	5	5	0			1 626
28	34	Motor vehicles, trailers and sem	158	41	10	2	63	4	35	16			10 800
29	35	Other transport equipment		11		2			76				3 266
30	36	Furniture; other manufactured g	124	98	180	74	8	24	1 875	70			5 620
31	37	Secondary raw materials	0	0	0	0	19	0					1 061
32	40	Electrical energy, gas, steam an	414	877	1 076	892	133	34	245	151			35 893
33	41	Collected and purified water, dis	32	19	31	24	24	4	23	39			3 438
34	45	Construction work	2 607	2 330	196	185	132	20	304	46			45 185
35	50	Trade, maintenance and repair :	299	903	91	30	120	60	107	115			18 944
36	51	Wholesale trade and commissi	346	871	468	1 170	48	41	1 117	111			59 807
37	52	Retail trade services, except of	1 965	44	26	25	7	15	129	215			16 706
38	55	Hotel and restaurant services	394	121	160	100	5	2	118	11			4 970
39	60	Land transport; transport via pip	910	419	255	61	191	8	153	177			36 014
40	61	Water transport services											
41	62	Air transport services	225	15	11	3	5	0	38	4			4 376
42	63	Supporting and auxiliary transp	28	7	2	5	7	0	1	0			8 695
43	64	Post and telecommunication ser	1 407	705	203	470	60	57	894	278			21 205
44	65	Financial intermediation service	412	62	63	57	24	2	46	54			15 889
45	66	Insurance and pension funding :	118	85	5	19	17	0	15	5			2 929
46	67	Services auxiliary to financial int	173	56	4	34	3	0	6	7			2 933
47	70	Real estate services	1 194	225	394	290	50	12	178	310			13 222
48	71	Renting services of machinery a	382	81	58	95	84	4	263	226			10 365
49	72	Computer and related services	471	252	76	57	10	2	56	53			4 747
50	73	Research and development ser	102	24	26	7	11	0	7				1 970
51	74	Other business services	8 583	1 318	674	439	191	29	1 270	483			55 638
52	75	Public administration and defen	7	2	4	5	1	0	2	5			97
53	80	Education services	103	25	501	17	4	4	7	1			1 388
54	85	Health and social work services	70	203	9	1 766	6	7	10	6			2 887
55	90	Sewage and refuse disposal ser	102	170	14	65	748	11	14	205			5 487
56	91	Membership organisation servic	6	2	4	4	0	0	3	0			160
57	92	Recreational, cultural and sporti	3 124	156	36	4	0	4	952	4			5 136
58	93	Other services	274	16	24	259	15	0	92	358			3 062
59	95	Private households with employed persons											
60		Total	33 449	12 524	6 261	9 958	2 355	723	10 340	4 171			755 544
61		Taxes less subsidies on produc	844	2 477	922	1 076	325	88	1 078	464			28 040
62		Total intermediate consumption	34 293	15 001	7 183	11 033	2 680	812	11 418	4 635			783 584
63		Compensation of employees	15 190	32 337	27 902	19 828	1 376	346	3 432	1 317	5		303 889
64		Other net taxes on production	48		8	34	84	82	- 9	42			11 025
65		Consumption of fixed capital											
66		Operating surplus, net											
67		Operating surplus, gross	18 804	11 706	2 922	6 931	2 515	1 096	5 792	6 975			318 178
68		Value added at basic prices	34 042	44 044	30 831	26 793	3 976	1 524	9 216	8 334	5		633 092
69		Output at basic prices	68 335	59 045	38 014	37 826	6 655	2 336	20 634	12 969	5		1 416 676
70		Imports cif intra EU 2)	2 807						399	2			152 015
71		Imports cif extra EU 2)	1 758						267	2			96 852
72		Imports cif	4 565						665	4			248 867
73		Supply at basic prices	72 900	59 045	38 014	37 826	6 655	2 336	21 299	12 973	5		1 665 543

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.

2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Because of confidentiality some products and industries were merged. Industries and products from columns and rows 11-14 were summed up, and the sum is shown in column and row number 13. Also columns and rows 61 and 62 were added up, and the result is placed in column and row 62.

Table A-31: continuance Table A-25

			Table 17: Input-output table at basic prices								
			Poland				Mio. NAC				current prices
Year 2000			FINAL USES								
HOMOGENEOUS BRANCHES			Final consumption expenditure by households	Final consumption expenditure by non-profit organisations serving households (NPISH)	Final consumption expenditure by government	Final consumption expenditure	Gross fixed capital formation	Changes in valuables <sup>1)</sup>	Changes in inventories	Changes in inventories and valuables	Gross capital formation
Code	PRODUCTS (CPA)										
No			62	63	64	65	66	67	68	69	70
1	01	Products of agriculture, hunting	18 850	3	2	18 854	28		- 1 173	- 1 173	- 1 144
2	02	Products of forestry, logging and	1 031			1 031	88		7	7	95
3	05	Fish and other fishing products;	113			113			1	1	1
4	10	Coal and lignite; peat	437	4	2	443			2	2	2
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying									
6	12	Uranium and thorium ores									
7	13	Metal ores	119			119			46	46	46
8	14	Other mining and quarrying products									
9	15	Food products and beverages	57 982	12	6	58 000			- 50	- 50	- 50
10	16	Tobacco products	2 943			2 943			13	13	13
11	17	Textiles	1 309	4	5	1 317	102		- 38	- 38	64
12	18	Wearing apparel; furs	6 329	4	7	6 340			- 9	- 9	- 9
13	19	Leather and leather products	2 913	3	4	2 920			23	23	23
14	20	Wood and products of wood and	1 236			1 236	237		11	11	248
15	21	Pulp, paper and paper products	853			853			70	70	70
16	22	Printed matter and recorded me	8 638			8 638			220	220	220
17	23	Coke, refined petroleum produc	6 209	7	4	6 219			280	280	280
18	24	Chemicals, chemical products a	17 359	8	4	17 371			93	93	93
19	25	Rubber and plastic products	1 438			1 438			158	158	158
20	26	Other non-metallic mineral prod	4 163			4 163			547	547	547
21	27	Basic metals	393			393			128	128	128
22	28	Fabricated metal products, exce	2 031			2 031	3 856		525	525	4 381
23	29	Machinery and equipment n.e.c.	3 630	13	5	3 647	22 322		137	137	22 459
24	30	Office machinery and computer:	587	10	3	600	5 680		- 31	- 31	5 649
25	31	Electrical machinery and appare	124			124	2 478		145	145	2 623
26	32	Radio, television and communic	3 455	12	3	3 470	5 912		33	33	5 945
27	33	Medical, precision and optical in	630	5	2	636	6 079		70	70	6 149
28	34	Motor vehicles, trailers and sem	7 974	7	1	7 983	15 859		33	33	15 892
29	35	Other transport equipment	349	8	4	360	5 760		290	290	6 051
30	36	Furniture; other manufactured g	3 808	8	9	3 825	3 985		- 31	- 31	3 954
31	37	Secondary raw materials							0	0	0
32	40	Electrical energy, gas, steam an	8 410	24	50	8 484			- 323	- 323	- 323
33	41	Collected and purified water, dis	58			58			91	91	91
34	45	Construction work	25 587			25 587	60 786		1 549	1 549	62 335
35	50	Trade, maintenance and repair :	7 939	2	2	7 943	3 000		- 99	- 99	2 901
36	51	Wholesale trade and commissio	16 283	8	9	16 300	2 190				2 190
37	52	Retail trade services, except of	43 252	17	18	43 288	9 867		340	340	10 207
38	55	Hotel and restaurant services	13 927	41	35	14 003			4	4	4
39	60	Land transport; transport via pip	10 805		784	11 589	297		18	18	315
40	61	Water transport services									
41	62	Air transport services	989			989	33		0	0	33
42	63	Supporting and auxiliary transpc	3 711		2 940	6 651			1	1	1
43	64	Post and telecommunication sei	7 344			7 344			0	0	0
44	65	Financial intermediation service	4 624			4 624					
45	66	Insurance and pension funding :	7 101			7 101					
46	67	Services auxiliary to financial int	5 159			5 159					
47	70	Real estate services	60 119	217	1 602	61 938	350		113	113	463
48	71	Renting services of machinery a	100			100			- 6	- 6	- 6
49	72	Computer and related services	580			580	4 044		19	19	4 063
50	73	Research and development services			1 876	1 876			0	0	0
51	74	Other business services	4 390	86	1 553	6 030	9 338		29	29	9 367
52	75	Public administration and defen	34	732	58 182	58 948					
53	80	Education services	5 757	1 259	29 609	36 626					
54	85	Health and social work services	4 467	1 323	29 077	34 867					
55	90	Sewage and refuse disposal sei	611			557	1 168				
56	91	Membership organisation servic	1 184	932	61	2 176					
57	92	Recreational, cultural and sporti	7 266	3 237	3 320	13 823	1 989		- 6	- 6	1 983
58	93	Other services	7 900		1 740	9 640					
59	95	Private households with employ	5			5					
60		Total	402 505	7 986	131 475	541 966	164 282		3 231	3 231	167 513
61		Taxes less subsidies on product	52 900	1	106	53 006	8 574		146	146	8 721
62		Total intermediate consumption	455 405	7 987	131 580	594 972	172 856		3 377	3 377	176 233
63		Compensation of employees									
64		Other net taxes on production									
65		Consumption of fixed capital									
66		Operating surplus, net									
67		Operating surplus, gross									
68		Value added at basic prices									
69		Output at basic prices									
70		Imports cif intra EU 2)									
71		Imports cif extra EU 2)									
72		Imports cif									
73		Supply at basic prices									

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in valuables.  
2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25

Table A-32: continuance Table A-25

Year		current prices					
2000							
No	Code	PRODUCTS (CPA)	FINAL USES				Total use
			Exports intra EU <sup>2)</sup> fob	Exports extra EU <sup>2)</sup> fob	Exports	Final uses	
			71	72	73	74	75
1	01	Products of agriculture, hunting	1 208	631	1 839	19 549	63 453
2	02	Products of forestry, logging and	300	33	333	1 459	5 268
3	05	Fish and other fishing products;	33	5	37	152	777
4	10	Coal and lignite; peat	2 311	780	3 091	3 536	17 175
5	11	Crude petroleum and natural gas; services incidental to oil and gas extraction excluding surveying					
6	12	Uranium and thorium ores					
7	13	Metal ores	308	286	594	760	25 924
8	14	Other mining and quarrying products					
9	15	Food products and beverages	4 743	4 758	9 500	67 451	106 976
10	16	Tobacco products	155	172	327	3 283	3 785
11	17	Textiles	7 167	1 648	8 815	10 196	18 778
12	18	Wearing apparel; furs	6 820	891	7 711	14 042	15 264
13	19	Leather and leather products	1 350	641	1 991	4 934	6 245
14	20	Wood and products of wood and	4 774	843	5 617	7 101	18 166
15	21	Pulp, paper and paper products	1 931	1 797	3 729	4 652	19 148
16	22	Printed matter and recorded me	290	226	516	9 373	19 656
17	23	Coke, refined petroleum produc	2 035	707	2 742	9 241	27 760
18	24	Chemicals, chemical products a	4 027	3 624	7 651	25 115	56 220
19	25	Rubber and plastic products	2 698	2 024	4 722	6 318	28 691
20	26	Other non-metallic mineral prod	2 075	1 208	3 283	7 994	28 613
21	27	Basic metals	7 328	3 987	11 315	11 836	38 051
22	28	Fabricated metal products, exce	5 801	1 565	7 366	13 778	36 220
23	29	Machinery and equipment n.e.c	5 054	3 230	8 284	34 390	49 220
24	30	Office machinery and computer	225	132	357	6 607	8 345
25	31	Electrical machinery and appar	5 695	1 552	7 248	9 994	23 083
26	32	Radio, television and communic	4 022	1 245	5 267	14 681	21 656
27	33	Medical, precision and optical in	536	214	750	7 535	9 161
28	34	Motor vehicles, trailers and sem	14 297	1 739	16 036	39 911	50 710
29	35	Other transport equipment	2 671	3 474	6 145	12 556	15 823
30	36	Furniture; other manufactured g	7 172	2 196	9 368	17 147	22 766
31	37	Secondary raw materials				0	1 062
32	40	Electrical energy, gas, steam ar	359	304	662	8 823	44 716
33	41	Collected and purified water, distribution services of water				149	3 587
34	45	Construction work	4 598	2 038	6 636	94 557	139 742
35	50	Trade, maintenance and repair	4 063	1 684	5 747	16 591	35 535
36	51	Wholesale trade and commissic	7 017	1 099	8 116	26 607	86 414
37	52	Retail trade services, except of	10 983	6 129	17 112	70 606	87 312
38	55	Hotel and restaurant services	778	280	1 058	15 066	20 036
39	60	Land transport; transport via pip	3 145	1 195	4 340	16 243	52 257
40	61	Water transport services					
41	62	Air transport services	2 275	948	3 223	4 245	8 621
42	63	Supporting and auxiliary transp	8 191	3 524	11 715	18 366	27 061
43	64	Post and telecommunication ser	1 656	713	2 370	9 714	30 919
44	65	Financial intermediation service	496	214	710	5 334	21 223
45	66	Insurance and pension funding	570	429	999	8 100	11 029
46	67	Services auxiliary to financial intermediation				5 159	8 092
47	70	Real estate services				62 401	75 623
48	71	Renting services of machinery a	60	27	87	181	10 547
49	72	Computer and related services	331	122	454	5 096	9 843
50	73	Research and development ser	66	28	94	1 970	3 940
51	74	Other business services	1 299	567	1 866	17 262	72 900
52	75	Public administration and defence services; compulsory social security s				58 948	59 045
53	80	Education services				36 626	38 014
54	85	Health and social work services	50	22	71	34 939	37 826
55	90	Sewage and refuse disposal services, sanitation and similar services				1 168	6 655
56	91	Membership organisation services n.e.c.				2 176	2 336
57	92	Recreational, cultural and sporti	239	117	357	16 163	21 299
58	93	Other services	189	81	271	9 911	12 973
59	95	Private households with employed persons				5	5
60		Total	141 392	59 128	200 520	909 999	1 665 543
61		Taxes less subsidies on produc	736	292	1 028	62 755	90 795
62		Total intermediate consumption	142 128	59 420	201 548	972 753	1 756 337
63		Compensation of employees					
64		Other net taxes on production					
65		Consumption of fixed capital					
66		Operating surplus, net					
67		Operating surplus, gross					
68		Value added at basic prices					
69		Output at basic prices					
70		Imports cif intra EU 2)					
71		Imports cif extra EU 2)					
72		Imports cif					
73		Supply at basic prices					

1) This provision is voluntary. In case this column is filled, gross fixed capital formation figures must exclude changes in val  
2) Up to 2003 EU15; as of 2004 (or the compulsory year 2005) EU25