

Economy and Use of Environmental Resources

Tables on Environmental-Economic Accounting
Part 4: Raw materials, Use of water, Waste water, Waste,
Environmental protection measures



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Table of contents

<i>Part 1</i>	<i>Chapter 1</i>	<i>Macroeconomic overview tables</i>
	<i>Chapter 2</i>	<i>Economic indices</i>
<i>Part 2</i>	<i>Chapter 3</i>	<i>Energy</i>
<i>Part 3</i>	<i>Chapter 4</i>	<i>Air pollutants</i>
Part 4	Introduction	
	1	Environmental-Economic Accounting of the Federal Statistical Office
	2	Overview on classification
	2.1	Classification of homogeneous branches
	2.2	Classification of industries
	3	Abbreviations and symbols
	4	General notes
	Glossary	
	Chapter 5	Raw materials
		<i>Economy wide</i>
	5.1	Domestic extraction of raw materials (used) (1,000 tonnes)
	5.2	Imports by degree of processing (1,000 tonnes)
	5.3	Exports by degree of processing (1,000 tonnes)
	5.4	Supply and use of raw material equivalents by raw material categories 2010 (mn tonnes)
	Chapter 6	Use of water
		<i>Economy wide</i>
	6.1	Water flow between nature and economy - homogeneous branches and consumption of private households
		<i>Homogeneous branches</i>
	6.2	Domestic water use (mn m ³)
	6.3	Domestic water use (1995 = 100)
	6.4	Domestic water use (percentage of total)
	6.5	Withdrawal of water from nature (mn m ³)
	6.6	Water received (mn m ³)
	6.7	Water intensity - use of water per gross value added, price-adjusted (index 2000 = 100)
		<i>Industries</i>
	6.8	Withdrawal of water from nature (mn m ³)
	6.9	Water received (mn m ³)
	6.10	Use of water (mn m ³)
	Chapter 7	Waste water
		<i>Homogeneous branches</i>
	7.1	Waste water (mn m ³)
	7.2	Waste water (1995 = 100)
	7.3	Waste water (percentage of total)
	7.4	Waste water intensity - waste water per gross value added, price-adjusted (Index 2000 = 100)
	7.5	Waste water discharged into nature (mn m ³)
	7.6	Waste water directly discharged (mn m ³)
	7.7	Waste water indirectly discharged (mn m ³)
	7.8	Waste water directly discharged with treatment (mn m ³)
	7.9	Waste water directly discharged without treatment (mn m ³)
	7.10	Evaporation and other losses (mn m ³)
	7.11	Cooling waste water (mn m ³)
		<i>Industries</i>
	7.12	Waste water discharged into nature (mn m ³)
	7.13	Waste water (mn m ³)
	7.14	Cooling waste water (mn m ³)
	Chapter 8	Waste
		<i>Economy wide</i>
	8.1	Amount of waste (1,000 tonnes)

Chapter 9	Environmental protection measures
	Environmental protection expenditure
9.1	Environmental protection expenditure (EUR mn)
9.2	Environmental protection expenditure per domain (EUR mn)
	Environmental taxes
9.3	Revenue from environment-related taxes and total tax revenue (EUR mn)
9.4	Taxed mineral oil by selected types
9.5	Environmental taxes by economic activities (EUR mn)

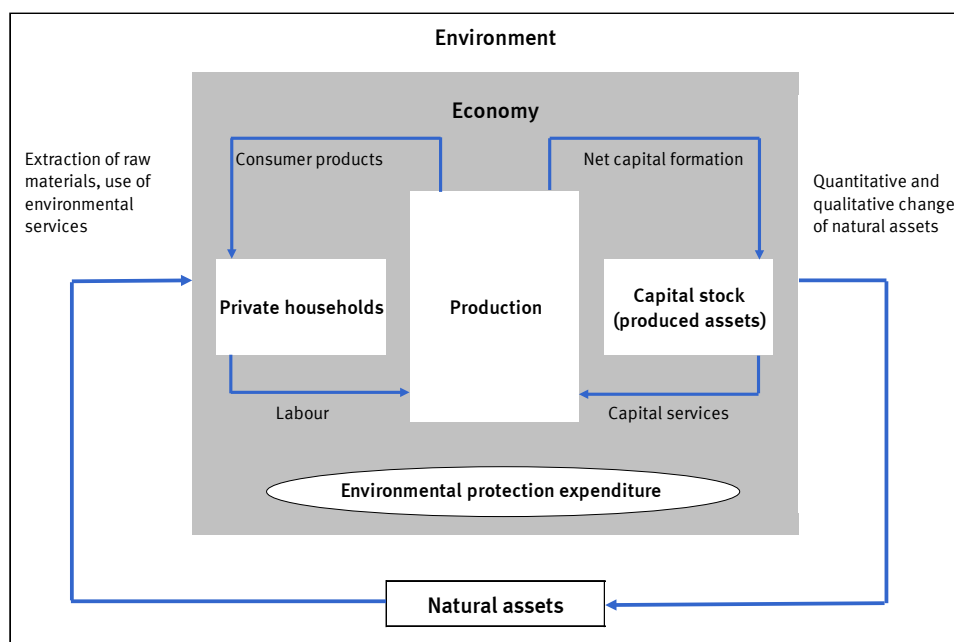
<i>Part 5</i>	<i>Chapter 10</i>	<i>Transport and the environment</i>
	<i>Chapter 11</i>	<i>Agriculture and the environment</i>
	<i>Chapter 12</i>	<i>Forest accounting</i>

1 Environmental-Economic Accounting of the Federal Statistical Office

Environmental-Economic Accounting (EEA) describes the **interrelationship between the economy and the environment**. For its economic activities, production and consumption an economy not only uses labour and produced assets but also natural assets. Natural assets include raw materials such as sources of energy, ores, other minerals and water as well as land that serves as a location for production, consumption and various leisure activities. These parts of natural assets are used directly. Other components of natural assets are ecosystems and other natural systems such as the atmosphere. They support economic activities by absorbing and eliminating residues and pollutants arising from production and consumption, such as atmospheric emissions, waste and effluent.

Figure 1 shows the interrelationship between economy¹ and environment. On the one hand natural assets are used as input for the economic process. On the other hand the economy discharges residues and pollutants.

Figure 1: Interrelationship economy environment



The use of natural assets – similar to the produced capital stock – generally involves depletion, which means that the burden or **impact on the environment** causes changes in its state and/or natural assets. On the one hand, these changes are of a quantitative nature (e.g. a decreasing amount of non-renewable raw materials); on the other, they have many qualitative aspects (deteriorating air quality due to emissions of pollutants, diminished biodiversity etc.). Attempts are being made to prevent these negative changes with targeted, appropriate environmental protection measures, such as by avoiding environmental burden (e.g. desulphurising flue gas) or remedying damage that has already been done (e.g. cleaning up polluted sites). The interdependencies between the economy and the environment therefore are not restricted to showing the burdens on the environment; in fact the pattern also includes changes to the state of

1 Both are shown the in simplified form in the diagram.

1 Environmental-Economic Accounting of the Federal Statistical Office

the environment brought about by pollution and the steps taken to avoid it or repair the damage.

The EEA aims to describe all three forms of interdependence between economy and environment – environmental burden, the environmental state and environmental measures. The description of these interdependencies takes as its starting point the fact, mentioned above, that a national economy not only uses labour and capital but also nature. Therefore, the basic idea is to take the commonly accepted definition of a national economy and expand it by a "factor nature". The System of National Accounts (SNA) provides a comprehensive and systematic definition of economic activity. Principally, they show monetary transactions (flows) and assets using standardised classifications. EEA were conceived as a satellite system for the national accounts, the objective of which is to extend the presentation of the economic process by a depiction of the interrelationship between the economic system and the environment. The environmental flows and inventories are almost always presented in physical units. For example, air emissions are expressed in tonnes, energy consumption in Terajoules, area used for transport and settlement purposes (land use) in square metres.

An important feature is the full compatibility of both systems – the national accounts and the EEA. The underlying concepts, definitions, distinctions, and classifications in both systems match as far as this is logically sensible and possible. This also applies and particularly so for the economic classifications used in the EEA and the SNA. Because of these common concepts, definitions, distinctions and classifications the results of the EEA can be linked internally and to the identically categorised SNA data and they can be analysed jointly. Compatibility with the national accounts permits for example to relate the environmental parameters, which are mostly shown in physical units (such as in tonnes), to the economic indices (in euros). Of particular importance here are the data on the efficiency of environmental use, expressed as an arithmetical ratio of the figure of interest (such as raw materials consumption) to the gross value added (GVA) or to the gross domestic product (GDP). With regard to the details of calculating productivities and intensities see the notes on the tables in Part 1.

The concept underlying the EEA is to express the status quo and the change in natural assets in units of money, so as to be able to determine what is known as corrected macro-economic aggregates, such as the ecological domestic product. Particularly insofar as such evaluations do not assess the quantitative decrease of resources, but refer to qualitative changes of other components, they are problematic in many respects with regard to the methods used (valuation/aggregation problems, restricted knowledge about correlation between cause and effect and considerable regional differences). That is why such calculations tend not to be carried out by the Federal Statistical Office but by scientific research institutes. Consequently, when presenting environmental pollution and the state of the environment EEA of the Federal Statistical Office is restricted to physical data.

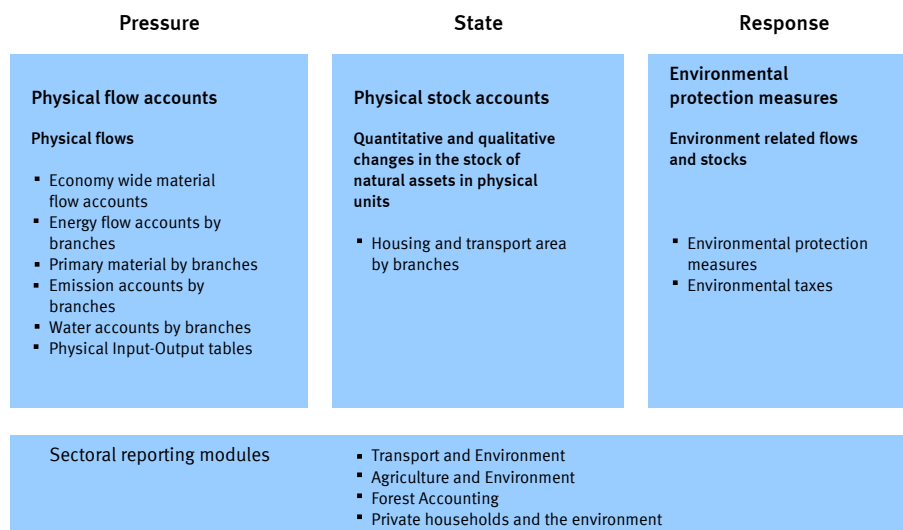
Environmental economic accounts and national accounts describe two dimensions of sustainable development– economy and environment – and their interrelationship. Therefore they provide an important and useful data base for political discussions concerning sustainability.

Figure 2 shows the different reporting **modules of the EEA** of the Federal Statistical Office. They reflect the internationally recognized pressure-state-response model, used to statistically show correlations between the environment and the economy. The **environmental pressures** reporting module shows the material flows listed behind it: the amount of raw materials extracted per year, the amount of pollutants emitted per year etc. This reporting module does not include produced goods or services, but raw materials extracted from nature and residual materials and hazardous substances emitted back into nature. The respective flows for each type of material are booked as

1 Environmental-Economic Accounting of the Federal Statistical Office

consolidated quantities, in what is known as the material account, which charts the flows of material between a national economy and both the natural environment and the world's other national economies.

Figure 2: Modules of German Environmental-Economic Accounting



At present, the **state of the environment** reporting module of the German EEA only expresses the component of the natural capital presented by land area. Especially land use by housing and transport are in the focus of this reporting module. Looking at how much land area is used by which economic stakeholder, however, can not be realised for the time being. Landscapes and ecosystems form yet another essential component of the natural capital, which should principally be included by accounting. In Germany these aspect are dealt with by Agency for Nature Protection, not by environmental economic accounts. Displaying the stocks of mineral resources – a third aspect of the natural assets, which may be of great importance for countries rich in raw materials – has a fairly low priority as far as German EEA is concerned and has so far not been considered. A reporting module has so far only been developed for forest.

In the module **environmental protective measures**, components already included in the monetary transactions of the national accounts are shown separately and, as a rule, broken down further. Here, for example, environmentally relevant taxes, such as vehicle tax or fuel tax, are shown. Another important part of environmental protective measures consist of investment and ongoing expenditure for environmental protection in the government and manufacturing industry sectors, as well as privatised public enterprises. Contrary to the physical electric power accounts of the material and energy flow accounts and the physical asset accounts describing the state of the environment, the EEA shows the environmental protective measures in the form of monetary accounts.

The **sectoral reporting modules**, presently used for the transport, agriculture, forestry, and private households sectors, enable extending the EEA standard programme by single items for politically significant topics. For such sectors, these reporting modules provide a much more detailed picture of the complete range of interdependencies between the environment and the economy, across the EEA components mentioned above.

1 Environmental-Economic Accounting of the Federal Statistical Office

Typical of EEA is considering the environmental impact (removing raw materials, land use, services of the environment) of economic activities from two angles: the first question is to what extent an environmental factor enters the economic cycle or is adversely affected in production or consumption of private households. Apart from this it is however also important to know what quantities of environmental factors are being employed and for what final purpose. This second assessment not only assigns directly consumed factor components to a specific category of use (such as the consumption activities of private households), but also those quantities needed to manufacture all the goods consumed by the households (at all stages of the production process) and therefore consumed, as it were, "indirectly" by the households. This contrasting of **direct and indirect parameters** is comparable with the presentation of origin and use in the national accounts, and applies to numerous subjects of EEA.

"Upstream" indirect consumption cannot be derived from the accounting system directly. Allocation takes place through a model approach based on input-output tables (IOT). IOTs are central elements of the national accounts; they include details of the upstream interdependencies between the individual production sectors, to name just one example.

The concept of Environmental Economic Accounts was established and further developed at **international level** by the United Nations, in particular, and adopted in February 2012 as an international statistical standard "System of Integrated Environmental and Economic Accounting (SEEA Central Framework 2012)"². In Germany substantial sections of the environmental economic accounts are drawn up based on these conceptual proposals in the SEEA.

² European Commission/Food and Agriculture Organisation/International Monetary Fund/Organisation for Economic Co-Operation and Development/ United Nations/World Bank (2012): System of Environmental-Economic Accounting – Central Framework, White cover publication, pre-edited text subject to official editing.

2 Overview on classification

2.1 Classification of homogeneous branches

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
1	Products of agriculture, forestry and fishing	Products of agriculture, forestry and fishing	A
2	Products of agriculture, hunting and related services	Products of agriculture, hunting and related services	01
3	Products of forestry, logging and related services	Products of forestry, logging and related services	02
4	Fish and other fishing products; aquaculture products	Fish and other fishing products; aquaculture products; support services to fishing	03
5	Mining and quarrying	Mining and quarrying	B
6	Coal and lignite	Coal and lignite	05
7	Crude petroleum and natural gas	Crude petroleum and natural gas	06
8	Metal ores, other mining and quarrying products	Metal ores, other mining and quarrying products; mining support services	07 – 09
9	Manufactured products	Manufactured products	C
10	Food products; beverages; tobacco products	Food products; beverages; tobacco products	10 – 12
11	Textiles; wearing apparel; leather and related products	Textiles; wearing apparel; leather and related products	13 – 15
12	Wood and products of wood and cork, except furniture	Wood and products of wood and cork, except furniture; articles of straw and plaiting materials	16
13	Paper and paper products	Paper and paper products	17
14	Printing and recording services	Printing and recording services	18
15	Coke and refined petroleum products	Coke and refined petroleum products	19
16	Coke oven products	Coke oven products	19.1
17	Refined petroleum products	Refined petroleum products	19.2
18	Chemicals and chemical products	Chemicals and chemical products	20
19	Basic pharmaceutical products and pharmaceutical preparations	Basic pharmaceutical products and pharmaceutical preparations	21

2 Overview on classification

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
20	Rubber and plastic products	Rubber and plastic products	22
21	Other non-metallic mineral products	Other non-metallic mineral products	23
22	Glass and glass products	Glass and glass products	23.1
23	Refractory products, cut, shaped and finished stone	Refractory products; clay building materials; other porcelain and ceramic products; cement, lime and plaster; articles of concrete, cement and plaster; cut, shaped and finished stone; other non-metallic mineral products	23.2 – 23.9
24	Basic metals	Basic metals	24
25	Basic iron and steel and ferro-alloys, other products of steel	Basic iron and steel and ferro-alloys; tubes, pipes, hollow profiles and related fittings of steel; other products of the first processing of steel	24.1 – 24.3
26	Basic precious and other non-ferrous metals	Basic precious and other non-ferrous metals	24.4
27	Casting services of metal	Casting services of metal	24.5
28	Fabricated metal products, except machinery and equipment	Fabricated metal products, except machinery and equipment	25
29	Computer, electronic and optical products	Computer, electronic and optical products	26
30	Electrical equipment	Electrical equipment	27
31	Machinery and equipment n. e. c.	Machinery and equipment n. e. c.	28
32	Motor vehicles, trailers and semi-trailers	Motor vehicles, trailers and semi-trailers	29
33	Other transport equipment	Other transport equipment	30
34	Furniture, other manufacture goods	Furniture, other manufacture goods	31 – 32
35	Repair and installation services of machinery and equipment	Repair and installation services of machinery and equipment	33
36	Electricity, gas, steam and air conditioning	Electricity, gas, steam and air conditioning	D
37	Electricity, transmission and distribution services, steam	Electricity, transmission and distribution services; steam and air conditioning supply services	35.1, 35.3

2 Overview on classification

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
38	Manufactured gas	Manufacture gas; distribution services of gaseous fuels through mains	35.2
39	Water supply; sewerage, waste management and remediation services	Water supply; sewerage, waste management and remediation services	E
40	Natural water; water treatment and supply services	Natural water; water treatment and supply services	36
41	Sewerage services; waste collection and material recovery services	Sewerage services; waste collection and material recovery services	37 – 39
42	Sewerage services, sewerage sludge	Sewerage services, sewerage sludge	37
43	Waste collection, treatment and disposal services	Waste collection, treatment and disposal services; materials recovery services; remediation services and other waste management services	38 – 39
44	Constructions and construction works	Constructions and construction works	F
45	Building and building construction works	Building and building construction works	41 – 42
46	Specialised construction works	Specialised construction works	43
47	Wholesale and retail trade services; repair services of motor vehicles	Wholesale and retail trade services; repair services of motor vehicles and motorcycles	G
48	Wholesale and retail trade and repair services of motor vehicles	Wholesale and retail trade and repair services of motor vehicles and motorcycles	45
49	Wholesale trade services, except of motor vehicles and motorcycles	Wholesale trade services, except of motor vehicles and motorcycles	46
50	Retail trade services, except of motor vehicles and motorcycles	Retail trade services, except of motor vehicles and motorcycles	47
51	Transportation and storage services	Transportation and storage services	H
52	Passenger rail transport services, freight rail transport services	Passenger rail transport services, interurban; freight rail transport services	49.1 – 49.2
53	Other passenger land transport services, transport services via pipeline	Other passenger land transport services; freight transport services by road and removal services; transport services via pipeline	49.3 – 49.5

2 Overview on classification

No.	Branches	Classification of products by activity (CPA) in the European Community	
		Designation	No.
54	Water transport services	Water transport services	50
55	Air transport services	Air transport services	51
56	Warehousing and support services for transportation	Warehousing and support services for transportation	52
57	Postal and courier services	Postal and courier services	53
58	Accommodation and food services	Accommodation and food services	I
59	Information and communication services	Information and communication services	J
60	Financial and insurance services	Financial and insurance services	K
61	Real estate services	Real estate services	L
62	Professional, scientific and technical services	Professional, scientific and technical services	M
63	Administrative and support services	Administrative and support services	N
64	Public administration and defence services	Public administration and defence services	O
65	Education services	Education services	P
66	Human health and social work services	Human health and social work services	Q
67	Other services	Arts, entertainment and recreation services; other services; services of households as employers; undifferentiated goods and services produced by households for own use	R – T
68	All homogeneous branches	All homogeneous branches	

2 Overview on classification

2.2 Classification of industries

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
1	Agriculture, forestry and fishing	Agriculture, forestry and fishing	A
2	Crop and animal production, hunting and related services	Crop and animal production, hunting and related services	01
3	Forestry and logging	Forestry and logging	02
4	Fishing and aquaculture	Fishing and aquaculture	03
5	Mining and quarrying	Mining and quarrying	B
6	Mining of coal and lignite	Mining of coal and lignite	05
7	Extraction of crude petroleum and natural gas	Extraction of crude petroleum and natural gas	06
8	Mining of metal ores, other mining and quarrying	Mining of metal ores; other mining and quarrying; mining support service activities	07 – 09
9	Manufacturing	Manufacturing	C
10	Manufacture of food products, beverages and tobacco products	Manufacture of food products; manufacture of beverages and manufacture tobacco products	10 – 12
11	Manufacture of textiles, wearing apparel, leather	Manufacture of textiles; manufacture of wearing apparel; manufacture of leather and related products	13 – 15
12	Manufacture of wood and products of wood and cork, except furniture	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	16
13	Manufacture of paper and paper products	Manufacture of paper and paper products	17
14	Printing and reproduction of recorded media	Printing and reproduction of recorded media	18
15	Manufacture of coke and refined petroleum products	Manufacture of coke and refined petroleum products	19
16	Manufacture of coke oven products	Manufacture of coke oven products	19.1
17	Manufacture of refined petroleum products	Manufacture of refined petroleum products	19.2
18	Manufacture of chemicals and chemical products	Manufacture of chemicals and chemical products	20

2 Overview on classification

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
19	Manufacture of basic pharmaceutical products	Manufacture of basic pharmaceutical products and pharmaceutical preparations	21
20	Manufacture of rubber and plastic products	Manufacture of rubber and plastic products	22
21	Manufacture of other non-mineral products	Manufacture of other non-mineral products	23
22	Manufacture of glass and glass products	Manufacture of glass and glass products	23.1
23	Manufacture of refractory products, cutting, finishing of stone	Manufacture of refractory products; manufacture of clay building materials; manufacture of other porcelain and ceramic products; manufacture of cement, lime and plaster; manufacture of articles of concrete, cement and plaster; cutting, shaping and finishing of stone; manufacture of abrasive products and non-metallic mineral products n. e. c.	23.2 – 23.9
24	Manufacture of basic metals	Manufacture of basic metals	24
25	Iron and steel	Manufacture of basic iron and steel and ferro-alloys; manufacture of tubes, pipes, hollow profiles and related fittings of steel; manufacture of other products of first processing of steel	24.1 – 24.3
26	Manufacture of basic precious and non-ferrous metals	Manufacture of basic precious and other non-ferrous metals	24.4
27	Casting of metals	Casting of metals	24.5
28	Manufacture of fabricated metal products, except machinery	Manufacture of fabricated metal products, except machinery and equipment	25
29	Manufacture of computer, electronic and optical products	Manufacture of computer, electronic and optical products	26
30	Manufacture of electrical equipment	Manufacture of electrical equipment	27
31	Manufacture of machinery and equipment n. e. c.	Manufacture of machinery and equipment n. e. c.	28
32	Manufacture of motor vehicles, trailers and semi-trailers	Manufacture of motor vehicles, trailers and semi-trailers	29

2 Overview on classification

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
33	Manufacture of other transport equipment	Manufacture of other transport equipment	30
34	Manufacture of furniture; other manufacturing	Manufacture of furniture; other manufacturing	31 – 32
35	Repair and installation of machinery and equipment	Repair and installation of machinery and equipment	33
36	Electricity, gas, steam and air conditioning supply	Electricity, gas, steam and air conditioning	D
37	Electric power generation, transmission and distribution, steam	Electric power generation, transmission and distribution; steam and air conditioning supply	35.1/ 35.3
38	Manufacture of gas; distribution of gaseous fuels through mains	Manufacture of gas; distribution of gaseous fuels through mains	35.2
39	Water supply, sewerage, waste management and remediation activities	Water supply, sewerage, waste management and remediation activities	E
40	Water collection, treatment and supply	Water collection, treatment and supply	36
41	Sewerage, waste collection, treatment and disposal activities	Sewerage, waste collection, treatment and disposal activities; material recovery; remediation activities and other waste management services	37 – 39
42	Sewerage	Sewerage	37
43	Waste collection, treatment and disposal activities	Waste collection, treatment and disposal activities; material recovery; remediation activities and other waste management services	38 – 39
44	Construction	Construction	F
45	Construction of buildings, civil engineering	Construction of buildings, civil engineering	41 – 42
46	Specialised construction activities	Specialised construction activities	43
47	Wholesale and retail trade; repair of motor vehicles and motorcycles	Wholesale and retail trade; repair of motor vehicles and motorcycles	G
48	Wholesale and retail trade and repair of motor vehicles	Wholesale and retail trade and repair of motor vehicles and motorcycles	45
49	Wholesale trade, except of motor vehicles and motorcycles	Wholesale trade, except of motor vehicles and motorcycles	46

2 Overview on classification

No.	Industries	Classification of economic activities, 2008 edition	
		Designation	No.
50	Retail trade, except of motor vehicles and motorcycles	Retail trade, except of motor vehicles and motorcycles	47
51	Transportation and storage	Transportation and storage	H
52	Passenger rail transport, interurban; freight rail transport	Passenger rail transport, interurban; freight rail transport	49.1 – 49.2
53	Other passenger land transport; transport via pipeline	Other passenger land transport; freight transport by road and removal services; transport via pipeline	49.3 – 49.5
54	Water transport	Water transport	50
55	Air transport	Air transport	51
56	Warehousing and support activities for transportation	Warehousing and support activities for transportation	52
57	Postal and courier activities	Postal and courier activities	53
58	Accommodation and food service activities	Accommodation and food service activities	I
59	Information and communication	Information and communication	J
60	Financial and insurance activities	Financial and insurance activities	K
61	Real estate activities	Real estate activities	L
62	Professional, scientific and technical activities	Professional, scientific and technical activities	M
63	Administration and support service activities	Administration and support service activities	N
64	Public administration and defence; compulsory social security	Public administration and defence; compulsory social security	O
65	Education	Education	P
66	Human health and social work activities	Human health and social work activities	Q
67	Other service activities	Arts, entertainment and recreation; other service activities; activities of households and employers; undifferentiated goods and service producing activities of households for own use	R – T
68	All industries	All industries	

3 Abbreviations and symbols

Abbreviations – general

NH ₃	=	ammonia
CH ₄	=	methane
CO ₂	=	carbon dioxide
NO ₂	=	nitrogen dioxide
NO _x	=	nitric oxides (= nitrogen dioxide + nitrogen monoxide)
N ₂ O	=	nitrous oxide (= laughing gas)
NMVOOC	=	volatile organic compounds (not including methane)
SO ₂	=	sulphur dioxide
SF ₆	=	sulphur hexafluoride
PFCs	=	perfluorocarbons
HFCs	=	hydrofluorocarbons
H ₂ O	=	water
NE	=	Non-ferrous metals
No.	=	number
Incl.	=	including
EB	=	Energy balance
EEA	=	Environmental-Economic Accounting
SNA	=	System of National Accounts

Abbreviations – units of measure

Equ.	=	equivalent		
EUR	=	Euro		
J	=	Joule	1 J	= 1 watt seconds (Ws)
kJ	=	kilojoules	1 kJ	= 10 ³ J
MJ	=	megajoules	1 MJ	= 10 ⁶ J
GJ	=	gigajoules	1 GJ	= 10 ⁹ J
TJ	=	terajoules	1 TJ	= 10 ¹² J

3 Abbreviations and symbols

PJ	=	petajoule	1 PJ	=	10 ¹⁵ J
Kg	=	kilogram			
t	=	tonnes			
mn	=	million			
bn	=	billion			
MWh	=	megawatt hour			
h	=	hour			
m ³	=	cubic metre			
%	=	per cent			
m ²	=	square metre			
km ²	=	square kilometre			
ha	=	hectare	1 ha	=	10 000 m ²
t-km	=	ton-kilometre			
p-km	=	passenger-kilometre			
o. b.	=	without bark			

Explanation of symbols

0	=	less than half of 1 in the last digit occupied, but more than zero
...	=	data will be available later
X	=	cell blocked for logical reasons
.	=	numerical value unknown or not to be disclosed
-	=	no figures or magnitude zero

Deviations in the totals may occur because of rounding off.

Note

Since the release of the tables in 2011 homogeneous branches (WZ 2008) are presented in a break down comparable to the statistical classification of economic activities of the European Community. Until 2010, the tables were calculated according the WZ 1993 respectively on the basis of the WZ 2003.

The intensities are shown in the tables 2011 only for the years from 2000 onwards, as data on gross value added by homogeneous branches after the revision of the national accounts are available only as from the reference year 2000.

4 General notes

Chapter 5 Raw materials

Raw materials are materials occurring in the environment in an unprocessed manner. Here all raw materials being extracted from the domestic environment to be used within the economy and all imported raw materials are presented. Unit used is tonnes. This information is supplemented by data about the imports and exports of semi-finished and finished products. Sources are production and foreign trade statistics, the statistic on agriculture, forestry and fisheries, various association statistics as well as additional information from ministries, institutions and other authorities. If specific information is not originally available in tonnes, it is converted.

The table on raw material equivalents (RME) shows the volume of first input and the final use of raw materials within the economy. This is computed by tracing back all goods and services used for consumption, investment or export to those raw materials that were originally used to create them. The physical unit is tonnes of raw material equivalents (t RME). Domestic extraction of raw materials is by definition in raw material equivalents.

Chapter 6 Use of water

A variety of data sources are used to calculate the tables of water withdrawal from nature. The initial data for water withdrawal are taken largely from official statistics (statistics of water supply and waste water disposal in mining and manufacturing and with thermal power plants for public supply, as well as statistics of public water supply and waste water disposal), the last year under report of which was 2013. In order to close gaps in data (for instance in agriculture and services), further data from the official statistics are used as well as from other sources, such as publications of academic institutes, associations and organisations.

Chapter 7 Waste water

In the tables on waste water, the volumes of waste are determined by water withdrawal from nature. Both values differ largely by virtue of the items infiltration and rain water, evaporation and other losses.

Different data sources are used to calculate the tables of waste water. The initial data are largely taken from official statistics (statistics of water supply and waste water disposal in mining and manufacturing and with thermal power plants for public supply, as well as statistics of public water supply and waste water disposal), the latest year under report of which was 2013. In order to close data gaps (such as which agriculture and services), many other data are used from official, as well as from other sources, such as publications of academic institutes, associations and organisations.

Chapter 8 Waste

Waste includes all residues or other undesirable substances. It may be either solid or liquid (unless it is introduced into bodies of water and waste disposal installation) and pasty materials (all kind of mud) and collected gases. The survey also include waste to be recycled as well as waste for disposal. Information relating to waste volumes is always provided in tonnes. The evidence provided in the result tables is shown in 1,000 tonnes. The waste quantities are always wet-quantities of waste.

The basis for kinds of waste recorded from reporting year 2002 is the European Waste Catalogue (now List of Wastes) in accordance with the German Waste Catalogue Ordinance (Ordinance implementing the European Waste Catalogue of 10 December 2001 – Federal Law Gazette I, page 3379). The European List of Wastes is a waste catalogue harmonised throughout the European Union which regularly checked based on new findings and amended as necessary. It is subdivided into waste chapters, waste groups and waste categories. The different waste types are entirely defined through their codes (6-digits) and the chapters to whom they are belonging. For a precise detection, especially of the waste treatment outputs, a further specification by 8-digit codes can be undertaken. The waste classification used is primarily oriented towards waste sources (branches).

Waste balance sheet

Section 6 of the German Environmental Statistics Act (Umweltstatistikgesetz – *UstatG*) stipulates that the Federal Statistical Office (Destatis) shall produce annual surveys in the form of balance sheets representing the amount, recycling and disposal of waste in accordance with Sections 3 to 5 of the Act. Detailed statistics from waste survey are combined, using a computer model, to form the waste balance sheet.¹ The calculation has been carried out from reporting year 2006 in accordance with the so-called gross volume principle². Based on the input of all registered waste disposal plants it summarises the waste volumes of any kind of waste generated domestically that is treated and disposed of. This is calculated from the input of the plants minus imports and plus exports. Waste flows subject to multiple treatments increase waste volumes to a certain extent. That is why re-treated waste that is already a product of one treatment is shown separately.

Further information on waste statistics can be found in the internet under:
www.destatis.de/WasteManagement

Chapter 9 Environmental protection measures

Environmental protection expenditure

In April 2014, the European regulation on environmental economic accounts has been extended to include a module³ on environmental protection expenditures. From the end of 2017 onwards it will be mandatory for all EU Member States to deliver national data on environmental protection expenditure starting with the reporting year 2014.

In 2010, the calculations have been revised and converted to meet the concepts and requirements of the EU Regulation. Compared to the past, data is based much stronger on the National Accounts. The expenditure on protection of the environment is much higher than in the past. Besides methodological change, this is due to the inclusion of more environmental areas and economic sectors, e. g. private companies of the waste water and waste management. Furthermore, changes occur due to the general revision⁴ of the National Accounts in 2014, so that data is not comparable to the previous concept.

¹ Annually published in Fachserie 19 „Umwelt“, Reihe 1 „Abfallentsorgung“ of the Federal Statistical Office (available in German only).

² Calculation of the waste volume up to and including 2005 is based on the so-called net input principle, i. e. the domestic output of waste recycling and disposal is deducted from the total input of waste disposal plants. The objective was to avoid the waste counted twice in case of multiple treatments.

³ Regulation (EU) No 538/2014 of the European Parliament and of the council of 16 April 2014 amending Regulation (EU) No 691/2011 on the European environment economic accounts.

⁴ In the course of the revision of the national accounts in 2014, new concepts and data bases were taken into account and calculation methods were modified (for more information see www.destatis.de/Revisionen).

The data used are results of input-output as well as domestic product calculation. Furthermore, data from the surveys on investments for environmental protection in industry and current expenditure for environmental protection in industry are used.

As the calculation of environmental protection expenditures is based on the concepts, definitions and delimitations of national accounts, the valuation principles as well as the presentation units and their summary to economic sectors are in line with those of the national accounts.

At this time, not all legal requirements could be implemented. Currently, current and capital transfers paid and received (e. g. subsidies) are not included. Furthermore, data for non-profit institutions serving households are not considered. Hence, data have to be considered as preliminary and will be adjusted as soon as data availability has improved.

Environmental taxes

The concept of statistics on environmental taxes was drafted at international level by the OECD and the Statistical Office of the European Communities (Eurostat). In doing so, a pragmatic approach was selected which exclusively uses the tax basis as a base. The relevant point is that the tax refers to a physical unit (or a proxy for this), which has a proven negative impact on the environment. In concrete terms this includes emissions in the widest sense (atmospheric emissions, waste water, waste, noise), energy products, fertilisers, pesticides and transport. At the same time, it was determined that value added tax, which is levied on energy products, motor vehicles, fertilisers and pesticides and the like is not counted among the environmental taxes.

For environmentally related tax revenues, revenues from the energy tax, electricity tax, vehicle tax, air traffic tax and nuclear fuel tax are summarized. In addition, the proceeds from the sale of emissions permits are included. They are based on the taxes' concepts of national accounts.

For the interpretation of the results tax rates, tax exemptions, and tax reductions are to be included. Hence, for instance reduced tax rates were decided for agriculture, production industries as well as for rail and local public transport. Combined heat and power production, as well as electricity from renewable energy sources, were exempted from the tax.

A table on environmental tax revenue by economic activities is included for the first time (Table 9.5).

Information on land use can be found in the internet under: www.destatis.de/LandUse

Glossary

Raw materials

Abiotic raw materials	Abiotic raw materials are non-renewable raw materials. In contrast to the biotic raw materials, replicating in sustainable farming, once consumed abiotic materials is with a view to the livelihoods of future generations irretrievably lost. The collection of abiotic raw materials is carried out separately for used abiotic raw materials such as fuels, ores and other mineral resources including peat and by not used abiotic raw materials (lignite overburden, tailings of energy and mineral resources and soil extraction).
Biotic raw materials	Biotic raw materials are renewable, naturally occurring substances of animal and vegetable origin. The biotic raw materials are recorded separately for used biotic raw materials such as crop products from agriculture, biomass for animal feed, biomass from forestry (wood) and animals (fishing and hunting route) and by non-usable biotic resources (not recycled biomass from agriculture (e. g. as straw, cover crops) and fisheries (bycatch)). Bred animals are no raw materials in the context of these calculations and are therefore not included.
Exports (Special trade system)	Exports of goods and services - merchandise trade comprise goods leaving the statistical territory of a country. In the general trade system, the definition of the statistical territory of a country coincides with its economic territory. In the special trade system, the definition of the statistical territory comprises only a particular part of the economic territory, mainly that part which coincides with the free circulation area for goods. The free circulation area is a part of the economic territory of a country within which goods may be disposed of without Customs restrictions.
Imports	Imports of goods and services (merchandise trade) are goods which add to the stock of material resources of a country by entering it is economic territory. It is accounted for direct importation of goods into free circulation of the destination country, all imports into stock (customs warehouse) at the time of its incorporation, as well as inward and outward processing arrangements as a customs official authorized activity or by customs officials appropriated admission temporaire including mending. The special trade, representable for imports only to the Federal Republic of Germany, however, contains no imports in stock. Imports from warehouse for free circulation or inward processing are, however, included in the special trade.
Primary materials	In the material flow accounts the term primary materials comprises the material extracted from domestic environment and all imports regardless of their stage of manufacturing (raw materials, semi- and finished goods).
Raw materials	In Environmental-Economic Accounts (EEA) raw materials are those materials occurring unprocessed by humans in the natural environment.
Raw material equivalents	The raw material equivalents of imports and exports consist of all those material inputs that are needed in the production of traded goods (intermediate material consumption), plus the mass of the imports and exports themselves. RME are equivalent to all those raw materials that from the basis of an import or export, irrespective of the economy in which the resources are used in the production process.
Raw material productivity	Raw material productivity expresses how much gross domestic product (in euros, adjusted for price changes) is obtained per tonne of abiotic primary material. The (non-renewable) raw materials withdrawn from the domestic environment – not counting agricultural and forestry products – as well as all imported abiotic materials (raw materials, semi-finished and finished products) are considered to be abiotic primary material.
Used extraction of raw materials	The used extraction of raw materials is a position of the discharge side of the material flow accounts. It covers all abiotic and biotic raw materials which are taken from the domestic environment and enter into the production or consumption process of the economy or into export. These include fuels, ores and other mineral resources, plant biomass from agriculture, biomass from forestry (wood) and biomass of animals (sea and coastal fishing and hunting bag).

Unused domestic extraction	Unused Domestic Extraction includes all those materials that are extracted from the national environment but not used in the national economy , i.e.they remain in the environment. Examples are: unused material excavated during civil engineering work and construction, unused material extracted in mining, unused tree residues from felling or unused parts of harvested crops.
Use of water / Waste water	
Cooling water	Cooling water or cooling waste water is water which is used to absorb or remove heat from cooling processes. It is generally unpolluted.
Groundwater	Groundwater is water that can usually recovered from an underground formation.
Infiltration	Infiltration water is especially unwanted drainage into the sewage network.
Spring water	Spring water is natural groundwater discharge.
Surface water	Water which flows on the surface of a land mass, such as rivers, streams, lakes etc., as well as artificial watercourses such as water reservoirs.
Treated waste water	Waste water discharged from treatment plant. Treatment plants are urban waste water treatment plants or industrial waste water treatment plants.
Waste water	Waste water is used water, typically discarded into the sewage system. It contains matter and bacteria in solution or suspension.
Waste water directly discharged	Direct discharge of treated and untreated wastewater or unused water into surface water or into ground water.
Waste water indirectly discharged	Indirectly discharged wastewater is discharge of treated and untreated (including unused water) water into the public sewage system.
Water discharged into nature	Water discharged into nature includes direct and indirect water discharge of industries and private households as well as water losses, evaporation and rain and infiltration water.
Water use	The use of water by industry and private households in a region arises from the water abstraction from nature, plus the water received from the public water sectors or other industries and the deliveries of unused water to other units. In addition to the actual used water for production and consumption water use – according to the concept of Environmental-Economic Accounting – includes infiltration and rain water, water losses and evaporation as well as the unused water. At the macroeconomic level, the difference between water use and the abstraction of water from nature is the balance of imports and exports of water.
Withdrawal of water from nature	Withdrawal of water from nature is the direct abstraction of ground water, surface water or spring water and bank filtrate.
Waste	
Construction and demolition waste	More than 40 % of Construction and demolition wastes are dumped into former and meanwhile inactive mining tunnels and about 30 % is reused for construction purposes.
Municipal waste	Municipal wastes are wastes from households and similar wastes from commercial and industrial sources. Also separately collected fractions and packaging do belong to municipal waste. Municipal waste are further differentiated into "household waste" (food waste, bulky waste, etc.) and "other municipal wastes" (market waste, street sweepings, etc.).

Other wastes	All remaining wastes which don not belong to one of the categories "municipal waste", "construction and demolition waste", "rubble-waste" and waste from waste treatment and summarized under the position "Other waste".
Waste from mining and treatment of mineral resources	This waste category contains waste types, which are generated during detection, exploitation, extraction and physical and/or chemical treatment of resources. Before all enterprises and productions units belonging to the sectors minig and waste disposal have to report on this topic.
Waste from waste treatment installations	Wastes generated during waste treatment and dedicated for additional waste treatment are named secondary wastes. They are belonging to the waste chapter 19. These secondary wastes are registered as input into waste treatment facilities and do belong to the waste balance. Waste amounts from waste treatment facilities which are neither subject to further treatment nor to disposal are assumed to go for recycling. Sie erfolgt größtenteils in Form von direkten und indirekten Abwassereinleitungen. Im Bereich öffentliche Abwasserbeseitigung wird das entnommene Fremd- und Niederschlagswasser wieder an die Natur abgegeben. Ein geringer Teil des Wassers gelangt als Wasserdampf durch Verdunstung oder über Wasserverluste zurück in die Natur.

Environmental protection measures

Current expenditure for environmental protection	Current expenditure for environmental protection includes compensation of employees, intermediate consumption, consumption of fixed capital as well as other taxes less subsidies on production as far as they are arise in the environmental areas of the protection of ambient air and climate, waste water management, protection of remediation of soil, groundwater and surface water, noise and vibration abatement, protection of biodiversity and landscapes, protection against radiation, environmental research and development or other environmental protection activities. Included are expenditure of corporations, general government and households. Up to now, expenditure of non-profit institutions serving households is not included.
Environmental taxes	Environmental taxes are taxes whose tax base is a physical unit (or a proxy of it) that has a proven specific negative impact on the environment. Four subsets of environmental taxes are distiguished: energy taxes, transport taxes, pollution tayeres and resources taxes. In Germany the following taxes are included: energy tax, electricity tax, motor vehicle tax, nuclear fuel tax, air transport tax, revenues from CO ₂ emission permits.
Expenditure on environmental protection	Environmental expenditures are capital and current expenditures related to characteristic activities and facilities specified in classification of environmental protection activities. They include environmental expenditure for own purposes (ancillary activities) and for use by other economic units. Included are expenditure of corporations, general government and households. Up to now, expenditure of non-profit institutions serving households is not included.
Investment expenditure for environmental protection	Integrated or clean technologies are new or modified technical facilities designed so that environmental protection is an integral part of the production process. These technologies reduce or eliminate emissions and discharges or are less resource-intensive than the equivalent "normal" technology used by other producers. Examples are closed-loop circulation, fluidized-bed combustion, or heat exchangers.

Table 5.1: Domestic extraction of raw materials (used) *
1,000 tonnes

No.	Extraction	1994	1995	2000	2005	2006
1	Domestic extraction (used).....	1,334,456	1,283,126	1,218,516	1,081,964	1,102,231
2	Abiotic raw materials (used).....	1,122,475	1,061,928	972,313	834,287	867,863
3	Energy sources.....	277,980	265,525	220,661	220,882	215,657
4	Hard coal.....	52,405	53,564	33,591	24,907	20,882
5	Brown coal (lignite).....	207,086	192,753	167,694	177,907	176,324
6	Crude oil.....	2,937	2,958	3,119	3,573	3,514
7	Natural gas, pit gas and petroleum gas.....	15,033	15,722	15,742	14,203	14,617
8	Other energy sources.....	519	528	515	292	320
9	Mineral raw materials.....	844,495	796,403	751,652	613,405	652,206
10	Ores.....	146	69	462	362	426
11	Iron ores.....	146	69	462	362	426
12	Non-ferrous ores.....	0	0	0	0	0
13	Other mineral raw materials.....	844,349	796,334	751,191	613,043	651,780
14	Construction minerals.....	780,495	737,864	691,853	550,431	587,580
15	Dimension stones.....	352	286	612	1,890	2,053
16	Limestone, anhydrit, chalk, dolomite and slate.....	66,640	71,865	75,916	62,734	66,649
17	Sand, gravel, crushed stones, clay and kaolin.....	322,521	200,683	170,656	132,559	139,404
18	Common clays (for brick making etc.) 1.....	374,374	451,266	429,195	342,982	368,874
19	Other construction minerals.....	16,608	13,766	15,475	10,266	10,600
20	Industrial minerals.....	63,854	58,470	59,338	62,612	64,200
21	Special sands and clays.....	16,797	17,983	15,390	13,380	13,784
22	Kaolin and other special clays.....	12,982	13,458	14,194	11,400	11,739
23	Minerals for chemistry and fertilization.....	11,498	8,381	8,239	8,852	9,090
24	Salts.....	14,787	12,956	14,612	19,033	19,545
25	Other industrial minerals.....	4,741	2,571	3,415	6,590	6,746
26	Peat for agricultural use.....	3,048	3,122	3,487	3,357	3,295
27	Biotic raw materials (used).....	211,981	221,198	246,203	247,677	234,368
28	Biomass from agriculture.....	194,958	204,076	221,450	220,791	204,257
29	Cereals.....	36,329	39,864	45,271	45,980	43,475
30	Pulses.....	242	303	471	406	337
31	Root crops.....	36,442	38,355	42,214	37,507	31,272
32	Industrial crops.....	3,288	3,306	3,765	5,247	5,515
33	Vegetables.....	2,175	2,352	2,937	3,105	3,083
34	Fruits.....	4,873	3,835	6,087	4,520	4,940
35	Straw.....	16,785	18,695	20,440	20,525	19,750
36	Intercrops.....	4,215	4,182	2,990	1,855	2,190
37	Turnid leaves.....	5,403	5,730	5,804	4,525	3,706
38	Fodder plants 2.....	84,656	86,847	90,928	96,567	89,399
39	Other crops.....	551	608	543	554	590
40	Biomass from forestry 3.....	16,802	16,877	24,503	26,572	29,800
41	Coniferous wood.....	12,406	11,619	18,487	20,244	22,043
42	Non-coniferous wood.....	4,387	5,250	6,004	6,314	7,742
43	Bark.....	8	8	12	14	15
44	Biomass from animals.....	222	245	249	314	311
45	Biomass from fishing.....	182	207	206	263	271
46	Marine fish catch 4.....	182	207	196	253	261
47	Inland water (freshwater) fish catch 5.....	0	0	11	11	10
48	Biomass from hunting.....	40	37	43	51	39

* Results partly preliminary.

1 Partially revised in comparison to the previous editions of this publication.

2 These include meadows, mowed pastures, alpine pastures, rough pasture. Mowing and grazing alternate at regular intervals with mowed pasture.

Rough pasture are areas only occasionally used for grazing.

3 Methodological differences compared to the results for forest accounting.

4 Including landings abroad.

5 Excl. aquaculture.

Table 5.1: Domestic extraction of raw materials (used) *
1,000 tonnes

2007	2008	2009	2010	2011	2012	2013	2014	2015	No.
1,109,418	1,090,962	1,047,062	1,021,361	1,113,579	1,084,742	1,058,153	1,102,703	1,040,634	1
847,095	827,572	779,090	772,056	833,495	803,756	797,986	798,705	769,206	2
219,045	209,050	199,106	196,064	202,062	208,744	202,052	196,904	194,807	3
21,532	17,172	13,766	12,900	12,059	10,770	7,566	7,640	6,223	4
180,414	175,326	169,859	169,403	176,595	185,432	182,754	178,178	178,151	5
3,415	3,054	2,800	2,511	2,679	2,621	2,638	2,430	2,413	6
13,361	13,220	12,380	10,899	10,335	9,440	8,652	8,150	7,552	7
323	278	300	351	396	480	442	507	468	8
628,049	618,522	579,984	575,992	631,433	595,012	595,934	601,801	574,398	9
434	463	368	394	489	451	418	456	489	10
434	463	368	394	489	451	418	456	489	11
0	0	0	0	0	0	0	0	0	12
627,615	618,059	579,617	575,598	630,944	594,561	595,516	601,345	573,909	13
565,538	558,163	521,992	511,413	566,752	535,105	534,537	542,582	517,285	14
1,828	1,018	627	560	594	1,170	1,181	1,282	1,337	15
69,209	67,174	57,506	60,109	63,631	62,312	61,197	61,342	54,790	16
132,853	132,801	123,773	120,274	135,729	127,788	124,932	133,203	126,379	17
351,245	348,301	332,665	322,422	357,823	335,027	338,344	338,002	325,926	18
10,403	8,869	7,420	8,049	8,976	8,808	8,882	8,753	8,853	19
62,077	59,896	57,625	64,185	64,191	59,456	60,979	58,763	56,624	20
14,200	13,941	11,770	12,418	13,600	13,015	12,669	13,484	12,624	21
12,161	11,442	11,277	12,084	12,062	11,396	10,999	11,410	10,571	22
9,272	8,696	5,226	7,814	8,333	8,118	7,983	8,447	7,954	23
15,661	15,310	18,938	19,664	17,417	14,845	17,382	13,169	13,958	24
7,364	7,430	7,308	9,313	9,839	9,051	9,021	9,469	8,551	25
3,419	3,078	3,106	2,892	2,940	3,032	2,925	2,783	2,967	26
262,324	263,389	267,972	249,304	280,084	280,986	260,166	303,998	271,428	27
226,180	236,556	244,724	223,066	252,604	255,352	233,948	277,238	244,155	28
40,632	50,105	49,748	44,039	41,920	45,396	47,757	52,011	48,867	29
221	179	213	222	216	200	189	243	410	30
37,412	34,892	38,063	33,874	41,704	38,610	32,762	41,552	33,180	31
5,492	5,327	6,479	5,878	4,059	5,011	5,941	6,410	5,174	32
3,295	3,381	3,571	3,291	3,532	3,768	3,356	3,703	3,392	33
5,423	5,075	5,374	4,238	4,735	4,781	4,264	5,448	4,940	34
18,100	22,165	22,430	19,480	17,905	19,800	21,573	23,034	22,010	35
2,238	2,233	2,211	2,169	2,154	2,173	2,193	2,191	2,191	36
4,529	4,428	4,966	4,416	5,574	5,218	4,302	5,606	4,254	37
108,232	108,199	111,095	104,933	130,284	129,891	111,110	136,529	119,203	38
607	572	574	526	521	504	499	512	534	39
35,813	26,514	22,986	25,955	27,201	25,373	25,946	26,473	26,954	40
27,913	18,923	16,381	18,738	18,489	17,042	17,252	17,817	18,677	41
7,882	7,578	6,593	7,204	8,698	8,318	8,681	8,643	8,263	42
18	13	12	13	14	13	13	13	14	43
330	319	262	284	279	262	272	287	319	44
279	259	212	227	232	200	221	233	259	45
268	247	199	214	222	191	210	211	238	46
12	12	13	13	10	9	11	22	21	47
51	60	50	57	47	62	51	54	60	48

Table 5.2: Imports by degree of processing*
1,000 tonnes

No.	Degree of processing	1994	1995	2000	2005	2006
1	Total.....	463,150	463,592	520,990	561,811	599,500
2	Raw materials.....	277,263	274,978	305,517	326,420	337,102
3	Energy sources.....	172,460	169,575	194,532	227,715	232,577
4	Hard coal.....	15,483	15,074	23,324	34,825	39,521
5	Brown coal (lignite).....	2,623	2,132	1,812	10	10
6	Crude oil.....	107,579	100,549	105,137	114,561	109,504
7	Natural gas and petroleum gas.....	46,774	51,820	64,259	78,317	83,542
8	Other energy sources.....	1	0	0	2	2
9	Mineral raw materials.....	82,719	82,708	85,961	72,541	76,192
10	Ores.....	47,030	47,254	51,851	47,025	49,599
11	Iron ores.....	42,704	43,231	47,519	41,994	44,878
12	Non-ferrous ores.....	4,325	4,023	4,332	5,031	4,721
13	Bauxite.....	2,276	2,011	2,170	2,461	2,148
14	Copper ores.....	653	663	709	1,149	1,149
15	Other non-ferrous ores.....	1,396	1,348	1,453	1,421	1,424
16	Other mineral raw materials.....	35,689	35,455	34,110	25,516	26,593
17	Construction minerals.....	27,877	26,689	24,759	16,334	16,346
18	Raw and unbroken natural stones.....	537	521	599	247	260
19	Limestone and dolomit.....	2,622	2,688	3,821	4,017	4,110
20	Sand and gravel.....	2,356	2,566	3,049	1,085	899
21	Raw and broken natural stones, crude earth.....	22,086	20,675	17,127	10,829	10,843
22	Clay and other construction minerals.....	276	240	163	156	234
23	Industrial minerals.....	7,812	8,766	9,351	9,182	10,247
24	Special sands and clays.....	1,019	952	734	619	1,097
25	Kaolin and other special clays.....	1,084	1,104	1,251	1,261	1,378
26	Minerals of chemistry and fertilization.....	2,216	2,276	2,412	2,010	2,222
27	Salts.....	1,142	1,813	2,203	2,672	2,692
28	Other industrial minerals.....	2,064	2,263	2,075	2,209	1,970
29	Peat for agriculture use.....	286	358	676	412	888
30	Biomass.....	22,084	22,695	25,023	26,164	28,332
31	Biomass from agriculture.....	19,915	20,498	21,217	22,215	23,612
32	Biomass from forestry.....	1,305	1,321	2,931	2,763	3,404
33	Biomass from animals 1.....	864	876	875	1,186	1,316
34	Semi-manufactured products.....	105,624	105,625	112,250	113,669	121,984
35	out of energy sources.....	48,514	48,371	53,506	52,281	54,729
36	out of coals.....	3,251	3,427	6,521	5,630	6,218
37	out of crude oil.....	43,981	43,772	45,505	44,714	46,450
38	out of natural gas and other energy sources.....	1,282	1,171	1,481	1,938	2,061
39	out of mineral raw materials.....	37,457	38,046	36,006	34,064	36,924
40	out of ores.....	9,583	9,730	13,001	17,217	19,425
41	out of iron ores.....	5,383	5,330	7,477	10,977	12,185
42	out of non-ferrous ores.....	4,200	4,401	5,524	6,240	7,240
43	out of other mineral raw materials.....	27,875	28,316	23,005	16,847	17,499
44	out of construction minerals.....	1,983	2,012	2,783	1,564	1,687
45	out of industrial minerals.....	25,892	26,304	20,222	15,282	15,811
46	out of biomass.....	19,653	19,209	22,737	27,324	30,331
47	out of biomass from agriculture.....	7,750	7,989	9,210	10,693	11,556
48	out of biomass from forestry.....	9,819	9,422	10,771	12,683	14,304
49	out of biomass from animals 1.....	2,084	1,798	2,755	3,947	4,471
50	Finished products.....	80,263	82,988	103,224	121,722	140,414
51	predominantly from energy sources.....	15,532	15,873	20,263	25,198	28,391
52	mostly out of coals.....	0	0	0	0	0
53	mostly out of crude oil.....	15,475	15,830	20,200	25,151	28,341
54	mostly out of natural gas and other energy sources.....	57	43	63	47	50
55	mostly out of mineral raw materials.....	35,809	38,692	49,667	57,108	68,732
56	mostly out of ores.....	30,562	33,458	42,142	48,375	59,073
57	mostly out of iron ores.....	28,469	31,314	39,250	45,014	55,250
58	mostly out of non-ferrous ores.....	2,094	2,144	2,892	3,361	3,823
59	mostly out of other mineral raw materials.....	5,247	5,234	7,525	8,733	9,659
60	mostly out of construction minerals.....	435	464	492	642	717
61	mostly out of industrial minerals.....	4,812	4,770	7,033	8,091	8,942
62	mostly out of biomass.....	28,922	28,423	33,293	39,416	43,290
63	mostly out of biomass from agriculture.....	10,539	10,297	10,568	14,155	16,134
64	mostly out of biomass from forestry.....	14,316	14,075	18,534	20,444	22,191
65	mostly out of biomass from animals 1.....	4,067	4,051	4,191	4,816	4,966

* From 2001, imports and exports are collected acc. to SITC. A comparison of the figures with earlier results is hence only partially possible because of a change of concept.

Without imported waste for final disposal.

1 Including products from fish catch and from hunting and living working animals.

Table 5.2: Imports by degree of processing*
1,000 tonnes

2007	2008	2009	2010	2011	2012	2013	2014	2015	No.
605,521	604,444	536,647	589,872	613,004	584,799	604,206	620,648	641,560	1
336,140	337,487	304,052	322,811	334,210	319,018	332,601	340,152	354,770	2
224,642	228,084	213,183	214,058	222,254	213,961	224,634	227,353	244,059	3
43,082	41,675	35,125	39,367	42,786	43,761	51,091	57,280	56,261	4
48	61	38	39	42	29	87	88	54	5
105,518	105,779	97,387	91,292	87,949	92,762	93,077	87,564	90,484	6
75,993	80,570	80,633	83,358	91,476	77,409	80,378	82,420	97,259	7
1	0	0	1	1	1	1	1	1	8
80,006	78,026	57,332	73,438	76,083	68,808	68,466	72,175	69,524	9
52,253	51,165	33,580	47,850	47,127	44,394	45,181	48,394	47,381	10
46,268	45,407	29,054	43,221	42,003	38,943	40,362	43,077	42,056	11
5,985	5,758	4,526	4,628	5,124	5,450	4,818	5,317	5,325	12
3,184	3,009	2,122	2,021	2,437	2,776	2,411	2,623	2,768	13
1,316	1,095	1,254	1,121	1,136	1,244	1,013	1,186	1,166	14
1,485	1,654	1,151	1,486	1,551	1,430	1,394	1,508	1,391	15
27,753	26,861	23,752	25,588	28,956	24,414	23,286	23,781	22,143	16
17,187	17,311	16,172	15,830	17,854	15,114	13,664	14,188	12,956	17
365	343	253	303	392	319	289	348	267	18
4,125	3,103	2,612	3,192	3,156	2,931	3,057	2,976	3,151	19
1,119	1,177	1,193	1,450	1,449	1,546	1,227	1,491	1,402	20
11,297	12,488	11,970	10,694	12,570	10,089	8,841	9,126	7,924	21
281	200	143	191	288	228	250	247	212	22
10,566	9,550	7,580	9,758	11,101	9,300	9,622	9,592	9,187	23
1,070	880	657	576	641	551	530	570	530	24
1,360	1,247	1,098	1,235	1,262	1,180	1,224	1,222	1,236	25
2,379	2,010	1,359	2,017	2,619	2,467	2,471	2,238	1,907	26
2,514	2,352	1,992	2,985	3,534	2,282	2,380	2,417	2,498	27
2,252	2,054	1,713	2,085	2,203	1,986	2,051	2,140	1,956	28
991	1,008	761	859	843	834	965	1,005	1,061	29
31,491	31,378	33,537	35,316	35,873	36,249	39,501	40,625	41,187	30
25,970	26,944	28,115	27,507	28,531	29,391	30,941	32,013	32,494	31
4,073	2,969	3,763	6,081	5,736	5,231	6,909	6,919	7,029	32
1,448	1,465	1,658	1,728	1,605	1,627	1,651	1,693	1,665	33
119,401	122,096	111,220	127,073	131,092	123,610	129,349	132,311	134,664	34
48,090	52,760	51,250	57,240	56,759	52,141	58,104	57,481	59,877	35
5,882	5,456	3,440	4,860	4,858	3,580	3,217	2,947	2,764	36
40,178	44,930	45,702	49,850	49,363	45,990	51,995	51,880	54,469	37
2,030	2,374	2,108	2,529	2,538	2,571	2,892	2,654	2,644	38
38,596	37,391	29,763	36,622	39,344	36,472	35,323	37,842	36,646	39
21,138	20,204	13,266	17,958	20,164	18,073	18,273	18,838	17,640	40
13,689	13,195	7,885	11,047	12,952	11,137	10,957	11,448	10,442	41
7,450	7,008	5,381	6,911	7,212	6,936	7,316	7,390	7,199	42
17,458	17,187	16,497	18,665	19,180	18,398	17,051	19,004	19,005	43
1,836	1,579	1,373	1,220	1,346	1,421	1,414	1,595	1,493	44
15,621	15,608	15,124	17,444	17,834	16,978	15,637	17,409	17,512	45
32,716	31,945	30,207	33,211	34,989	34,998	35,921	36,988	38,141	46
12,023	12,513	12,182	13,028	14,198	14,490	14,769	14,965	15,430	47
15,935	14,541	13,250	15,334	15,632	15,410	16,083	16,521	16,843	48
4,758	4,891	4,775	4,849	5,159	5,098	5,069	5,502	5,868	49
149,979	144,861	121,375	139,987	147,702	142,171	142,256	148,185	152,127	50
30,297	29,116	25,622	29,299	30,469	29,802	30,962	32,472	33,625	51
0	0	0	0	0	0	0	0	0	52
30,278	29,112	25,620	29,260	30,425	29,759	30,922	32,436	33,592	53
19	4	2	39	44	42	40	37	33	54
74,847	73,039	55,378	68,130	73,807	69,544	68,952	71,885	73,716	55
64,446	62,179	45,908	57,214	62,541	58,993	58,171	60,492	62,117	56
60,324	58,263	42,753	53,232	58,147	54,776	53,946	56,039	57,334	57
4,122	3,917	3,155	3,983	4,393	4,217	4,225	4,453	4,783	58
10,401	10,860	9,470	10,915	11,266	10,551	10,781	11,393	11,599	59
775	742	700	782	973	801	772	895	736	60
9,626	10,118	8,769	10,133	10,293	9,750	10,009	10,498	10,864	61
44,835	42,705	40,376	42,559	43,426	42,825	42,341	43,827	44,786	62
16,324	15,715	15,609	15,699	15,861	15,510	15,096	14,868	15,340	63
23,303	21,690	19,457	21,510	22,090	21,764	21,563	23,015	23,427	64
5,208	5,300	5,310	5,350	5,476	5,551	5,683	5,944	6,019	65

Table 5.3: Exports by degree of processing*
1,000 tonnes

No.	Degree of processing	1994	1995	2000	2005	2006
1	Total.....	223,181	224,702	289,245	357,022	379,632
2	Raw materials.....	55,297	55,933	74,396	78,087	82,008
3	Energy sources.....	4,967	7,222	13,424	15,120	11,412
4	Hard coal.....	2,025	1,736	279	252	305
5	Brown coal (lignite).....	333	404	220	0	28
6	Crude oil.....	1,076	488	313	935	350
7	Natural gas and petroleum gas.....	1,534	4,593	12,611	13,933	10,730
8	Other energy sources.....	0	0	0	0	0
9	Mineral raw materials.....	34,879	32,249	38,096	41,488	48,047
10	Ores.....	171	174	215	147	158
11	Iron ores.....	98	65	22	12	22
12	Non-ferrous ores.....	73	109	193	135	137
13	Bauxite.....	29	30	41	33	33
14	Copper ores.....	0	22	26	46	54
15	Other non-ferrous ores.....	44	56	127	56	50
16	Other mineral raw materials.....	34,708	32,076	37,881	41,340	47,889
17	Construction minerals.....	24,735	23,153	27,533	28,977	34,350
18	Raw and unbroken natural stones.....	275	230	197	417	379
19	Limestone and dolomit.....	597	801	423	1,322	1,535
20	Sand and gravel.....	7,652	6,871	9,448	8,205	10,437
21	Raw and broken natural stones, crude earth.....	13,421	12,440	14,547	16,447	19,231
22	Clay and other construction minerals.....	2,789	2,811	2,918	2,585	2,767
23	Industrial minerals.....	9,973	8,923	10,348	12,364	13,539
24	Special sands and clays.....	735	730	1,113	1,955	2,077
25	Kaolin and other special clays.....	677	510	584	583	697
26	Minerals of chemistry and fertilization.....	1,945	1,918	2,366	2,149	2,030
27	Salts.....	2,840	2,698	2,894	3,733	3,948
28	Other industrial minerals.....	1,646	1,141	896	1,553	2,161
29	Peat for agriculture use.....	2,131	1,926	2,495	2,392	2,627
30	Biomass.....	15,450	16,461	22,876	21,480	22,548
31	Biomass from agriculture.....	11,341	12,277	17,526	14,724	15,329
32	Biomass from forestry.....	3,645	3,690	4,698	5,933	6,430
33	Biomass from animals 1.....	465	495	652	823	790
34	Semi-manufactured products.....	86,064	83,525	98,623	130,108	134,665
35	out of energy sources.....	23,814	21,536	26,945	37,626	39,949
36	out of coals.....	1,673	829	426	201	267
37	out of crude oil.....	21,217	19,852	25,414	36,323	38,667
38	out of natural gas and other energy sources.....	924	856	1,105	1,103	1,015
39	out of mineral raw materials.....	43,588	41,830	46,107	61,796	61,920
40	out of ores.....	14,982	13,776	14,737	15,227	16,731
41	out of iron ores.....	12,420	11,312	11,981	12,618	13,915
42	out of non-ferrous ores.....	2,561	2,463	2,756	2,609	2,816
43	out of other mineral raw materials.....	28,607	28,055	31,370	46,569	45,188
44	out of construction minerals.....	1,289	1,235	1,556	3,285	3,312
45	out of industrial minerals.....	27,317	26,820	29,814	43,283	41,876
46	out of biomass.....	18,662	20,158	25,570	30,685	32,797
47	out of biomass from agriculture.....	8,554	8,672	10,416	13,147	13,552
48	out of biomass from forestry.....	5,739	6,841	9,130	11,238	12,974
49	out of biomass from animals 1.....	4,369	4,645	6,024	6,301	6,271
50	Finished products.....	81,819	85,244	116,226	148,827	162,959
51	predominantly from energy sources.....	20,648	20,906	26,753	34,736	36,951
52	mostly out of coals.....	0	0	0	0	0
53	mostly out of crude oil.....	20,582	20,874	26,741	34,731	36,946
54	mostly out of natural gas and other energy sources.....	66	32	12	4	5
55	mostly out of mineral raw materials.....	42,288	44,588	61,724	75,766	85,710
56	mostly out of ores.....	36,763	38,926	52,537	64,092	72,733
57	mostly out of iron ores.....	34,513	36,404	48,841	59,728	67,789
58	mostly out of non-ferrous ores.....	2,250	2,522	3,695	4,364	4,944
59	mostly out of other mineral raw materials.....	5,525	5,662	9,188	11,673	12,978
60	mostly out of construction minerals.....	35	31	47	68	82
61	mostly out of industrial minerals.....	5,490	5,631	9,140	11,605	12,896
62	mostly out of biomass.....	18,883	19,750	27,749	38,326	40,297
63	mostly out of biomass from agriculture.....	5,437	5,933	7,018	8,456	8,498
64	mostly out of biomass from forestry.....	10,801	11,233	17,333	25,182	26,784
65	mostly out of biomass from animals 1.....	2,645	2,584	3,398	4,687	5,015

* From 2001, imports and exports are collected acc. to SITC. A comparison of the figures with earlier results is hence only partially possible because of a change of concept.

1 Including products from fish catch and from hunting and living working animals.

Table 5.3: Exports by degree of processing*
1,000 tonnes

2007	2008	2009	2010	2011	2012	2013	2014	2015	No.
396,152	388,026	338,476	365,296	378,449	367,778	370,084	380,740	398,125	1
83,603	85,371	78,050	80,496	86,792	75,275	75,797	78,491	90,135	2
11,096	11,459	9,907	14,996	21,705	16,354	16,486	18,090	29,638	3
427	567	400	277	217	276	251	208	178	4
141	533	523	696	789	1,134	918	1,038	997	5
280	40	266	343	284	175	109	31	59	6
10,249	10,318	8,717	13,680	20,415	14,769	15,208	16,812	28,404	7
0	0	0	0	0	0	0	0	0	8
51,024	53,150	46,562	44,498	46,319	40,130	37,398	38,534	36,691	9
185	166	137	192	259	319	318	363	292	10
41	43	10	29	71	47	58	119	71	11
144	124	127	163	188	271	260	244	220	12
37	36	16	28	26	35	25	29	26	13
62	48	71	52	55	57	47	51	43	14
45	40	40	83	106	179	188	163	151	15
50,839	52,983	46,425	44,306	46,060	39,812	37,080	38,171	36,400	16
37,299	39,531	34,084	32,207	34,323	29,713	26,782	27,123	25,162	17
477	482	456	467	527	387	383	450	336	18
1,630	1,598	1,418	1,694	1,664	1,483	1,209	1,307	1,552	19
11,318	11,252	9,740	8,841	9,721	8,286	8,008	7,453	7,223	20
21,252	23,550	20,222	18,913	19,907	17,074	14,680	15,379	13,393	21
2,623	2,649	2,248	2,292	2,505	2,482	2,501	2,534	2,658	22
13,540	13,453	12,341	12,099	11,736	10,099	10,299	11,048	11,237	23
3,473	3,103	3,257	2,246	1,982	1,778	1,594	1,993	1,843	24
745	695	552	569	615	531	533	551	542	25
2,031	1,837	1,601	1,609	1,868	1,699	1,531	1,429	1,361	26
2,787	2,800	2,756	3,114	2,737	2,207	2,685	2,777	3,123	27
1,953	2,527	2,081	2,298	2,293	1,799	1,874	2,344	2,288	28
2,551	2,490	2,093	2,263	2,242	2,084	2,082	1,954	2,080	29
21,483	20,762	21,582	21,002	18,769	18,791	21,913	21,867	23,806	30
14,292	14,883	17,299	16,837	14,469	14,690	17,937	17,722	19,337	31
6,408	5,078	3,379	3,226	3,259	3,031	2,951	3,072	3,356	32
783	801	904	940	1,042	1,069	1,025	1,073	1,112	33
141,651	131,714	116,652	120,392	121,826	123,424	125,294	129,510	130,857	34
41,463	38,634	31,769	27,723	27,737	33,463	35,520	38,590	40,554	35
988	820	731	851	797	879	856	2,380	1,960	36
39,385	36,689	30,171	26,154	26,294	31,986	34,005	35,571	37,879	37
1,090	1,124	867	717	646	598	658	638	716	38
65,820	57,382	49,673	55,776	56,447	53,120	53,285	53,182	52,013	39
18,148	17,776	14,984	18,939	20,024	18,816	18,135	19,130	17,572	40
15,279	14,787	11,890	15,593	16,503	15,327	14,895	15,827	14,352	41
2,868	2,990	3,095	3,346	3,521	3,489	3,241	3,304	3,220	42
47,673	39,606	34,689	36,837	36,424	34,304	35,149	34,051	34,441	43
3,721	4,220	3,644	2,993	3,565	3,670	3,584	3,288	3,330	44
43,951	35,386	31,045	33,844	32,859	30,634	31,565	30,763	31,111	45
34,368	35,698	35,210	36,893	37,642	36,841	36,490	37,738	38,291	46
13,203	14,361	15,438	16,993	16,861	17,272	17,360	17,949	18,608	47
14,794	14,443	12,742	12,622	13,435	12,324	11,825	12,051	11,834	48
6,372	6,895	7,030	7,278	7,346	7,245	7,305	7,737	7,848	49
170,898	170,941	143,774	164,408	169,831	169,078	168,993	172,740	177,133	50
38,805	33,646	34,688	37,974	37,952	38,214	38,451	39,760	40,663	51
0	0	0	0	0	0	0	0	0	52
38,801	33,646	34,687	37,973	37,951	38,213	38,451	39,759	40,662	53
4	0	1	1	1	1	1	1	1	54
90,072	92,585	68,851	82,464	89,221	87,703	87,159	89,180	90,823	55
76,447	79,044	57,397	68,608	74,967	74,178	72,890	74,589	76,316	56
71,354	73,973	53,400	64,109	69,915	69,318	67,857	69,401	70,837	57
5,094	5,072	3,997	4,499	5,052	4,859	5,033	5,188	5,478	58
13,625	13,541	11,454	13,856	14,254	13,526	14,269	14,591	14,507	59
94	99	89	92	109	105	87	77	70	60
13,531	13,442	11,365	13,764	14,145	13,421	14,182	14,514	14,437	61
42,021	44,710	40,235	43,970	42,657	43,160	43,382	43,800	45,647	62
8,328	9,489	8,364	9,102	8,501	9,491	9,929	9,644	10,707	63
28,249	28,808	25,389	27,863	26,790	26,198	25,784	26,326	26,940	64
5,444	6,413	6,482	7,005	7,366	7,472	7,670	7,830	7,999	65

Table 5.4: Supply and use of raw material equivalents (RME) by raw material categories 2010

mn tonnes

No.	Raw materials	First appearance (RMI) ¹ respectively final use							Exports _{RME} ³⁾
		Total	Supply		Final use				
			Domestic extraction	Imports _{RME} ³⁾	Total	Domestic (RMC) ²⁾			
						Consumption ⁴⁾	Gross fixed capital formation in machinery, equipment	Gross fixed capital formation in construction	
1	Total	2,716	1,004	1,712	1,236	777	99	575	1,479
2	Total abiotic	2,285	755	1,530	983	527	94	558	1,301
3	Ores 5	826	0	826	44	92	60	34	782
4	Iron ores and manganese ore.....	231	0	230	11	34	24	16	220
5	Non-ferrous metal ores.....	595	-	595	33	58	36	18	562
	including:								
6	Copper ores.....	214	-	214	25	22	14	9	189
7	Aluminium ores (bauxite).....	38	-	38	8	5	3	2	30
8	Fossil fuels 6	755	199	556	410	345	25	27	345
9	Lignite 7.....	203	172	30	110	97	6	8	92
10	Hard coal.....	165	13	152	96	82	8	6	69
11	Crude oil, natural gas liquids, LNG.....	215	3	211	110	87	5	8	105
12	Natural gas.....	172	11	162	94	78	6	5	78
13	Other mineral raw materials 8	704	556	148	529	91	9	496	175
14	Mineral fertilisers 9.....	21	7	14	7	6	0	1	14
15	Chemical Minerals 10.....	24	10	14	11	5	1	4	13
16	Sodium chloride.....	50	20	30	16	13	1	1	34
17	Silica sands 11.....	22	12	9	9	6	1	4	12
18	limestone 12, gypsum 13.....	125	79	47	78	23	4	53	47
19	Sand 14, gravel, crushed natural stones.....	440	413	27	397	34	2	427	43
20	ashlars.....	1	1	1	1	0	0	1	1
21	Clays 15.....	21	14	7	11	4	0	6	10
22	Biomass	431	249	181	253	250	5	18	178
23	from agriculture.....	353	223	130	223	222	2	3	130
24	from forestry.....	76	26	50	29	27	3	15	47
25	from fishery 16 and hunting.....	1	0	1	1	1	0	0	0

1 Raw Material Input.

2 Raw Material Consumption.

3 Raw Material Equivalents.

4 Consumption of private households, NPISHs and government.

5 Ores incl. Gangue but without as accompanying sands.

6 Incl. For non-energy use.

7 Incl. peat.

8 Excl. Excavated soil..

9 Phosphates, potash and kieserite.

10 Incl. Sulfur and other mineral raw materials n.o.s.

11 Excl. Mineral sands used for metal production (see ores).

12 Incl. Dolostone.

13 Incl. anhydride and chalk.

14 Excl. Silica sand and other special sands.

15 Incl. bentonite and kaolin.

16 Wild fish catch and other aquatic (incl. Mussels from aquaculture).

Table 6.1: Water flow between nature and economy - homogeneous branches and private households
mn m³

No.	Specification	Water distribution	Waste water disposal	Other homogeneous branches	Private households	Total
1995						
1	Water withdrawal from nature.....	6,455	5,008	37,321	47	48,831
2	Infiltration and rainwater.....		5,008			5,008
3	Ground water, surface water etc.....	6,455		37,321	47	43,823
4	+ Water received.....	-5,620	10	2,336	3,266	-8
5	= Water use.....	835	5,018	39,657	3,313	48,823
6	+/- Water incorporated into, minus water removed from other materials.....			329	-148	181
7	= Water discharge into nature.....	835	5,018	39,329	3,461	48,642
8	Infiltration and rainwater.....		4,993			4,993
9	Losses.....	711				711
10	Evaporation.....		1	1,897	285	2,183
11	Waste water.....	124	24	37,432	3,176	40,756
12	Waste water indirectly discharged.....	124	24	1,590	2,930	4,667
13	Waste water directly discharged.....			35,842	246	36,088
14	Treated waste water.....			1,246	246	1,493
15	Untreated waste water.....			34,596		34,596
16	Cooling waste water.....			32,282		32,282
17	Other waste water.....			2,314		2,314
1998						
18	Water withdrawal from nature.....	6,253	4,750	34,758	46	45,807
19	Infiltration and rainwater.....		4,750			4,750
20	Ground water, surface water etc.....	6,253		34,758	46	41,057
21	+ Water received.....	-5,521	9	2,301	3,204	-7
22	= Water use.....	732	4,759	37,059	3,250	45,800
23	+/- Water incorporated into, minus water removed from other materials.....			319	-154	165
24	= Water discharge into nature.....	732	4,759	36,740	3,404	45,635
25	Infiltration and rainwater.....		4,734			4,734
26	Losses.....	600				600
27	Evaporation.....		1	1,462	153	1,616
28	Waste water.....	132	24	35,278	3,251	38,684
29	Waste water indirectly discharged.....	132	24	1,527	3,047	4,729
30	Waste water directly discharged.....			33,751	204	33,955
31	Treated waste water.....			945	204	1,149
32	Untreated waste water.....			32,806		32,806
33	Cooling waste water.....			30,711		30,711
34	Other waste water.....			2,095		2,095
2001						
35	Water withdrawal from nature.....	6,137	5,235	32,502	26	43,899
36	Infiltration and rainwater.....		5,235			5,235
37	Ground water, surface water etc.....	6,137		32,502	26	38,665
38	+ Water received.....	-5,474	9	2,259	3,198	-7
39	= Water use.....	663	5,244	34,761	3,224	43,892
40	+/- Water incorporated into, minus water removed from other materials.....			314	-150	165
41	= Water discharge into nature.....	663	5,244	34,447	3,374	43,727
42	Infiltration and rainwater.....		5,219			5,219
43	Losses.....	530				530
44	Evaporation.....		1	1,582	99	1,682
45	Waste water.....	133	23	32,865	3,275	36,296
46	Waste water indirectly discharged.....	133	23	1,541	3,095	4,792
47	Waste water directly discharged.....			31,324	180	31,504
48	Treated waste water.....			895	180	1,075
49	Untreated waste water.....			30,429		30,429
50	Cooling waste water.....			28,568		28,568
51	Other waste water.....			1,861		1,861
2004						
52	Water withdrawal from nature.....	6,235	4,221	30,053	28	40,537
53	Infiltration and rainwater.....		4,221			4,221
54	Ground water, surface water etc.....	6,235		30,053	28	36,316
55	+ Water received.....	-5,594	7	2,397	3,182	-9
56	= Water use.....	641	4,228	32,450	3,209	40,528
57	+/- Water incorporated into, minus water removed from other materials.....			296	-156	140
58	= Water discharge into nature.....	641	4,228	32,154	3,365	40,388
59	Infiltration and rainwater.....		4,206			4,206
60	Losses.....	495				495
61	Evaporation.....		1	1,595	98	1,694
62	Waste water.....	145	21	30,559	3,267	33,992
63	Waste water indirectly discharged.....	145	21	1,522	3,081	4,770
64	Waste water directly discharged.....			29,036	186	29,222
65	Treated waste water.....			913	186	1,099
66	Untreated waste water.....			28,124		28,124
67	Cooling waste water.....			25,965		25,965
68	Other waste water.....			2,159		2,159

Table 6.1: Water flow between nature and economy - homogeneous branches and private households
mn m³

No.	Specification	Water distribution	Waste water disposal	Other homogeneous branches	Private households	Total
2007						
69	Water withdrawal from nature.....	5,972	4,872	26,875	28	37,747
70	Infiltration and rainwater.....		4,872			4,872
71	Ground water, surface water etc.....	5,972		26,875	28	32,875
72	+ Water received.....	-5,360	10	2,275	3,075	-1
73	= Water use.....	612	4,882	29,149	3,103	37,746
74	+/- Water incorporated into, minus water removed from other materials.....			292	-173	120
75	= Water discharge into nature.....	612	4,882	28,856	3,276	37,626
76	Infiltration and rainwater.....		4,857			4,857
77	Losses.....	462				462
78	Evaporation.....		1	1,738	94	1,834
79	Waste water.....	150	24	27,118	3,182	30,473
80	Waste water indirectly discharged.....	150	24	1,548	2,979	4,701
81	Waste water directly discharged.....			25,570	203	25,772
82	Treated waste water.....			924	203	1,127
83	Untreated waste water.....			24,645		24,645
84	Cooling waste water.....			22,491		22,491
85	Other waste water.....			2,154		2,154
2010						
86	Water withdrawal from nature.....	5,640	4,972	27,469	23	38,104
87	Infiltration and rainwater.....		4,972			4,972
88	Ground water, surface water etc.....	5,640		27,469	23	33,132
89	+ Water received.....	-5,020	5	2,032	2,981	-1
90	= Water use.....	620	4,977	29,501	3,004	38,103
91	+/- Water incorporated into, minus water removed from other materials.....			332	-173	159
92	= Water discharge into nature.....	620	4,977	29,210	3,177	37,984
93	Infiltration and rainwater.....		4,957			4,957
94	Losses.....	475				475
95	Evaporation.....	0	2	1,718	91	1,811
96	Waste water.....	145	18	27,492	3,086	30,741
97	Waste water indirectly discharged.....	145	18	1,263	2,884	4,310
98	Waste water directly discharged.....		0	26,230	202	26,431
99	Treated waste water.....			864	202	1,066
100	Untreated waste water.....			25,366	0	25,366
101	Cooling waste water.....			23,261	0	23,261
102	Other waste water.....			2,105		2,105
2013¹						
103	Water withdrawal from nature.....	5,605	4,819	19,238	24	29,686
104	Infiltration and rainwater.....		4,819			4,819
105	Ground water, surface water etc.....	5,605		19,238	24	24,867
106	+ Water received.....	-4,998	3	2,049	2,943	-3
107	= Water use.....	607	4,822	21,287	2,967	29,683
108	+/- Water incorporated into, minus water removed from other materials.....			292	-190	101
109	= Water discharge into nature.....	607	4,822	20,995	3,158	29,582
110	Infiltration and rainwater.....		4,804			4,804
111	Losses.....	470				470
112	Evaporation.....	0	0	1,074	90	1,164
113	Waste water.....	136	18	19,921	3,068	23,143
114	Waste water indirectly discharged.....	97	18	1,229	2,848	4,192
115	Waste water directly discharged.....		0	18,732	219	18,951
116	Treated waste water.....			868	219	1,087
117	Untreated waste water.....			17,864	0	17,864
118	Cooling waste water.....			15,783	0	15,783
119	Other waste water.....			2,081		2,081

Table 6.1: Water flow between nature and economy - homogeneous branches and private households
mn m³

No.	Specification	Water distribution	Waste water disposal	Other homogeneous branches	Private households	Total
2013 as against 2001 in percent						
120	Water withdrawal from nature.....	- 8.7	- 7.9	- 40.8	- 6.9	- 32.4
121	Infiltration and rainwater.....		- 7.9			- 7.9
122	Ground water, surface water etc.....	- 8.7		- 40.8	- 6.9	- 35.7
123	+ Water received.....	- 8.7	- 67.2	- 9.3	- 8.0	- 64.6
124	= Water use.....	- 8.5	- 8.0	- 38.8	- 8.0	- 32.4
125	+/- Water incorporated into, minus water removed from other materials.....			- 7.1	27.3	- 38.4
126	= Water discharge into nature.....	- 8.5	- 8.0	- 39.1	- 6.4	- 32.3
127	Infiltration and rainwater.....		- 7.9			- 7.9
128	Losses.....	- 11.2				- 11.2
129	Evaporation.....	0.0	- 102.2	- 32.1	- 9.4	- 30.8
130	Waste water.....	2.2	- 23.2	- 39.4	- 6.3	- 36.2
131	Waste water indirectly discharged.....	- 27.0	- 23.2	- 20.3	- 8.0	- 12.5
132	Waste water directly discharged.....		0.0	- 40.2	22.2	- 39.8
133	Treated waste water.....			- 3.1	22.2	1.1
134	Untreated waste water.....			- 41.3	0.0	- 41.3
135	Cooling waste water.....			- 44.8	0.0	- 44.8
136	Other waste water.....			11.8		11.8
2013as against 2001 total						
137	Water withdrawal from nature.....	-532	-415	-13,264	-2	-14,213
138	Infiltration and rainwater.....		-415			-415
139	Ground water, surface water etc.....	-532		-13,264	-2	-13,798
140	+ Water received.....	476	-6	-210	-255	5
141	= Water use.....	-56	-421	-13,474	-257	-14,209
142	+/- Water incorporated into, minus water removed from other materials.....			-22	-41	-63
143	= Water discharge into nature.....	-56	-421	-13,452	-216	-14,146
144	Infiltration and rainwater.....		-415			-415
145	Losses.....	-59				-59
146	Evaporation.....	0	-1	-508	-9	-518
147	Waste water.....	3	-5	-12,944	-207	-13,153
148	Waste water indirectly discharged.....	-36	-5	-312	-247	-600
149	Waste water directly discharged.....		0	-12,593	40	-12,553
150	Treated waste water.....			-28	40	12
151	Untreated waste water.....			-12,565	0	-12,565
152	Cooling waste water.....			-12,785	0	-12,785
153	Other waste water.....			220		220

1 Preliminary results.

Table 6.2: Domestic water use

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	467	467	425	397	461	543
2	01	Products of agriculture, hunting and related services.....	467	467	425	395	461	542
3	02	Products of forestry, logging and related services.....	-	-	-	1	0	1
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	0	0	1
5	B	Mining and quarrying.....	1,528	1,509	1,736	1,728	1,590	1,496
6	05	Coal and lignite.....	1,122	1,024	1,332	1,306	1,231	1,100
7	06	Crude petroleum and natural gas.....	3	3	4	3	3	3
8	07-09	Metal ores, other mining and quarrying products.....	403	482	400	419	356	393
9	C	Manufactured products.....	6,179	5,606	5,826	5,436	5,046	4,401
10	10-12	Food products, beverages, tobacco products.....	573	532	480	531	457	416
11	13-15	Textiles, wearing apparel, leather and related products.....	73	56	42	38	38	30
12	16	Wood and products of wood and cork, except furniture.....	25	19	16	15	12	8
13	17	Paper and paper products.....	353	374	395	433	429	454
14	18	Printing and recording services.....	11	12	12	12	8	7
15	19	Coke and refined petroleum products.....	218	201	193	192	204	118
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	3,811	3,365	3,605	3,172	2,758	2,458
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	65	51
20	22	Rubber and plastic products.....	110	101	91	72	65	62
21	23	Other non-metallic mineral products.....	178	173	175	162	181	162
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	548	488	495	524	509	415
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	53	49	52	45	37	33
29	26	Computer, electronic and optical products.....	71	77	77	71	47	41
30	27	Electrical equipment.....	22	21	16	25	15	15
31	28	Machinery and equipment n.e.c.....	44	49	94	55	47	37
32	29	Motor vehicles, trailers and semi-trailers.....	67	69	63	62	104	61
33	30	Other transport equipment.....	14	15	15	22	17	12
34	31-32	Furniture, other manufactured goods.....	6	5	6	4	7	8
35	33	Repair and installation services of machinery and equipment.....	-	-	0	1	46	12
36	D (35)	Electricity, gas, steam and air conditioning.....	27,111	26,554	23,851	21,006	21,750	14,195
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	5,768	5,907	4,869	5,494	5,601	5,430
40	36	Natural water; water treatment and supply services.....	686	663	641	612	620	607
41	37-39	Sewerage services; waste collection and materials recovery services.....	5,082	5,244	4,228	4,882	4,981	4,823
42	37	Sewerage services, sewerage sludge.....	5,082	5,244	4,228	4,882	4,977	4,822
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	4	1
44	F	Constructions and construction works.....	49	48	39	37	39	43
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair services of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade services; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage services.....	39	36	37	37	39	41
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline.....	.	.	.	.	25	26
54	50	Water transport services.....	2	2	2	2	2	2
55	51	Air transport services.....	5	5	5	6	6	6
56	52	Warehousing and support services for transportation.....	3	3	4	4	4	4
57	53	Postal and courier services.....	3	3	3	3	2	3
58	I	Accommodation and food services.....	71	72	71	91	116	115
59	J	Information and communication services.....	6	7	8	5	34	36
60	K	Financial and insurance services.....	9	9	9	11	8	8
61	L	Real estate services.....	2	2	3	3	3	3
62	M	Professional, scientific and technical services.....	19	20	15	16	19	19
63	N	Administrative and support services.....	15	16	14	15	16	17
64	O	Public administration and defence services.....	48	41	41	32	34	33
65	P	Education services.....	85	84	85	85	86	89
66	Q	Human health and social work services.....	104	104	103	67	68	72
67	R-T	Other services.....	134	131	132	128	138	118
68		All homogeneous branches.....	41,689	40,668	37,319	34,643	35,099	26,716
69		Private households.....	3,233	3,224	3,209	3,103	3,004	2,967
70		All homogeneous branches and private households.....	44,922	43,892	40,528	37,746	38,103	29,683

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.3: Domestic water use

2000 = 100

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	100	100	91	85	99	116
2	01	Products of agriculture, hunting and related services.....	100	100	91	85	99	116
3	02	Products of forestry, logging and related services.....	-	-	-	-	-	-
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	-	-	-
5	B	Mining and quarrying.....	100	99	114	113	104	98
6	05	Coal and lignite.....	100	91	119	116	110	98
7	06	Crude petroleum and natural gas.....	100	92	126	89	100	104
8	07-09	Metal ores, other mining and quarrying products.....	100	120	99	104	88	97
9	C	Manufactured products.....	100	91	94	88	82	71
10	10-12	Food products, beverages, tobacco products.....	100	93	84	93	80	73
11	13-15	Textiles, wearing apparel, leather and related products.....	100	77	57	52	52	42
12	16	Wood and products of wood and cork, except furniture.....	100	77	64	59	47	33
13	17	Paper and paper products.....	100	106	112	123	121	129
14	18	Printing and recording services.....	100	112	110	104	74	62
15	19	Coke and refined petroleum products.....	100	92	88	88	94	54
16	19.1	Coke oven products.....	-	-	-	-	-	-
17	19.2	Refined petroleum products.....	-	-	-	-	-	-
18	20	Chemicals and chemical products 3.....	100	88	95	83	72	65
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	-	-	-	-	-	-
20	22	Rubber and plastic products.....	100	92	82	66	59	56
21	23	Other non-metallic mineral products.....	100	97	98	91	102	91
22	23.1	Glass and glass products.....	-	-	-	-	-	-
23	23.2-9	Refractory products, cut, shaped and finished stone.....	-	-	-	-	-	-
24	24	Basic metals.....	100	89	90	96	93	76
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	-	-	-	-	-	-
26	24.4	Basic precious and other non-ferrous metals.....	-	-	-	-	-	-
27	24.5	Casting services of metals.....	-	-	-	-	-	-
28	25	Fabricated metal products, except machinery and equipment.....	100	92	98	85	70	63
29	26	Computer, electronic and optical products.....	100	107	108	100	65	58
30	27	Electrical equipment.....	100	94	71	111	66	69
31	28	Machinery and equipment n.e.c.....	100	111	212	124	105	84
32	29	Motor vehicles, trailers and semi-trailers.....	100	102	94	92	154	90
33	30	Other transport equipment.....	100	111	107	162	127	86
34	31-32	Furniture, other manufactured goods.....	100	78	94	71	118	129
35	33	Repair and installation services of machinery and equipment.....	-	-	-	-	-	-
36	D (35)	Electricity, gas, steam and air conditioning.....	100	98	88	77	80	52
37	35.1/.3	Electricity, transmission and distribution services, steam.....	-	-	-	-	-	-
38	35.2	Manufactured gas.....	-	-	-	-	-	-
39	E	Water supply; sewerage, waste management and remediation services.....	100	102	84	95	97	94
40	36	Natural water; water treatment and supply services.....	100	97	93	89	90	88
41	37-39	Sewerage services; waste collection and materials recovery services.....	100	103	83	96	98	95
42	37	Sewerage services, sewerage sludge.....	100	103	83	96	98	95
43	38-39	Waste collection, treatment and disposal services.....	-	-	-	-	-	-
44	F	Constructions and construction works.....	100	98	79	76	79	88
45	41-42	Building and building construction works.....	-	-	-	-	-	-
46	43	Specialised construction works.....	-	-	-	-	-	-
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	100	101	101	101	93	105
48	45	Wholesale and retail trade and repair services of motor vehicles.....	100	102	106	112	95	116
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	100	99	93	88	93	107
50	47	Retail trade services; except of motor vehicles and motorcycles.....	100	100	99	95	91	93
51	H	Transportation and storage services.....	100	94	95	96	101	108
52	49.1-2	Passenger rail transport services, freight rail transport services.....	-	-	-	-	-	-
53	49.3-5	Other passenger land transport services, transport services via pipeline...	-	-	-	-	-	-
54	50	Water transport services.....	100	90	90	91	92	92
55	51	Air transport services.....	100	97	110	120	123	136
56	52	Warehousing and support services for transportation.....	100	103	114	116	109	120
57	53	Postal and courier services.....	100	98	100	97	75	85
58	I	Accommodation and food services.....	100	102	100	129	164	163
59	J	Information and communication services.....	100	105	131	86	544	567
60	K	Financial and insurance services.....	100	99	98	123	91	91
61	L	Real estate services.....	100	102	113	115	106	118
62	M	Professional, scientific and technical services.....	100	103	76	81	98	97
63	N	Administrative and support services.....	100	104	95	101	105	109
64	O	Public administration and defence services.....	100	85	84	67	70	69
65	P	Education services.....	100	99	100	100	101	104
66	Q	Human health and social work services.....	100	100	100	65	66	70
67	R-T	Other services.....	100	98	99	95	103	88
68		All homogeneous branches.....	100	98	90	83	84	64
69		Private households.....	100	100	99	96	93	92
70		All homogeneous branches and private households.....	100	98	90	84	85	66

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.4: Domestic water use
percentage of total

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	1.04	1.06	1.05	1.05	1.21	1.83
2	01	Products of agriculture, hunting and related services.....	1.04	1.06	1.05	1.05	1.21	1.83
3	02	Products of forestry, logging and related services.....	0.00	0.00	0.00	0.00	0.00	0.00
4	03	Fish and other fishing products; aquaculture products.....	0.00	0.00	0.00	0.00	0.00	0.00
5	B	Mining and quarrying.....	3.40	3.44	4.28	4.58	4.17	5.04
6	05	Coal and lignite.....	2.50	2.33	3.29	3.46	3.23	3.70
7	06	Crude petroleum and natural gas.....	0.01	0.01	0.01	0.01	0.01	0.01
8	07-09	Metal ores, other mining and quarrying products.....	0.90	1.10	0.99	1.11	0.93	1.32
9	C	Manufactured products.....	13.75	12.77	14.38	14.40	13.24	14.83
10	10-12	Food products, beverages, tobacco products.....	1.28	1.21	1.19	1.41	1.20	1.40
11	13-15	Textiles, wearing apparel, leather and related products.....	0.16	0.13	0.10	0.10	0.10	0.10
12	16	Wood and products of wood and cork, except furniture.....	0.06	0.04	0.04	0.04	0.03	0.03
13	17	Paper and paper products.....	0.79	0.85	0.97	1.15	1.13	1.53
14	18	Printing and recording services.....	0.02	0.03	0.03	0.03	0.02	0.02
15	19	Coke and refined petroleum products.....	0.49	0.46	0.48	0.51	0.54	0.40
16	19.1	Coke oven products.....	-	-	-	-	-	-
17	19.2	Refined petroleum products.....	-	-	-	-	-	-
18	20	Chemicals and chemical products 3.....	8.48	7.67	8.90	8.40	7.24	8.28
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	-	-	-	-	0.17	0.17
20	22	Rubber and plastic products.....	0.24	0.23	0.22	0.19	0.17	0.21
21	23	Other non-metallic mineral products.....	0.40	0.39	0.43	0.43	0.47	0.54
22	23.1	Glass and glass products.....	-	-	-	-	-	-
23	23.2-9	Refractory products, cut, shaped and finished stone.....	-	-	-	-	-	-
24	24	Basic metals.....	1.22	1.11	1.22	1.39	1.34	1.40
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	-	-	-	-	-	-
26	24.4	Basic precious and other non-ferrous metals.....	-	-	-	-	-	-
27	24.5	Casting services of metals.....	-	-	-	-	-	-
28	25	Fabricated metal products, except machinery and equipment.....	0.12	0.11	0.13	0.12	0.10	0.11
29	26	Computer, electronic and optical products.....	0.16	0.17	0.19	0.19	0.12	0.14
30	27	Electrical equipment.....	0.05	0.05	0.04	0.07	0.04	0.05
31	28	Machinery and equipment n.e.c.....	0.10	0.11	0.23	0.15	0.12	0.13
32	29	Motor vehicles, trailers and semi-trailers.....	0.15	0.16	0.16	0.16	0.27	0.20
33	30	Other transport equipment.....	0.03	0.03	0.04	0.06	0.05	0.04
34	31-32	Furniture, other manufactured goods.....	0.01	0.01	0.01	0.01	0.02	0.03
35	33	Repair and installation services of machinery and equipment.....	0.00	0.00	-0.00	0.00	0.12	0.04
36	D (35)	Electricity, gas, steam and air conditioning.....	60.35	60.50	58.85	55.65	57.08	47.82
37	35.1/3	Electricity, transmission and distribution services, steam.....	-	-	-	-	-	-
38	35.2	Manufactured gas.....	-	-	-	-	-	-
39	E	Water supply; sewerage, waste management and remediation services.....	12.84	13.46	12.01	14.55	14.70	18.29
40	36	Natural water; water treatment and supply services.....	1.53	1.51	1.58	1.62	1.63	2.04
41	37-39	Sewerage services; waste collection and materials recovery services.....	11.31	11.95	10.43	12.93	13.07	16.25
42	37	Sewerage services, sewerage sludge.....	11.31	11.95	10.43	12.93	13.06	16.25
43	38-39	Waste collection, treatment and disposal services.....	-	-	-	-	0.01	0.00
44	F	Constructions and construction works.....	0.11	0.11	0.10	0.10	0.10	0.14
45	41-42	Building and building construction works.....	-	-	-	-	-	-
46	43	Specialised construction works.....	-	-	-	-	-	-
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	0.12	0.12	0.13	0.14	0.13	0.19
48	45	Wholesale and retail trade and repair services of motor vehicles.....	0.05	0.05	0.06	0.07	0.06	0.09
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	0.02	0.02	0.02	0.02	0.03	0.04
50	47	Retail trade services; except of motor vehicles and motorcycles.....	0.05	0.05	0.05	0.05	0.05	0.07
51	H	Transportation and storage services.....	0.09	0.08	0.09	0.10	0.10	0.14
52	49.1-2	Passenger rail transport services, freight rail transport services.....	-	-	-	-	0.00	0.00
53	49.3-5	Other passenger land transport services, transport services via pipeline...	-	-	-	-	0.07	0.09
54	50	Water transport services.....	0.01	0.00	0.01	0.01	0.01	0.01
55	51	Air transport services.....	0.01	0.01	0.01	0.02	0.02	0.02
56	52	Warehousing and support services for transportation.....	0.01	0.01	0.01	0.01	0.01	0.01
57	53	Postal and courier services.....	0.01	0.01	0.01	0.01	0.01	0.01
58	I	Accommodation and food services.....	0.16	0.16	0.18	0.24	0.30	0.39
59	J	Information and communication services.....	0.01	0.02	0.02	0.01	0.09	0.12
60	K	Financial and insurance services.....	0.02	0.02	0.02	0.03	0.02	0.03
61	L	Real estate services.....	0.01	0.01	0.01	0.01	0.01	0.01
62	M	Professional, scientific and technical services.....	0.04	0.05	0.04	0.04	0.05	0.06
63	N	Administrative and support services.....	0.03	0.04	0.04	0.04	0.04	0.06
64	O	Public administration and defence services.....	0.11	0.09	0.10	0.09	0.09	0.11
65	P	Education services.....	0.19	0.19	0.21	0.23	0.23	0.30
66	Q	Human health and social work services.....	0.23	0.24	0.25	0.18	0.18	0.24
67	R-T	Other services.....	0.30	0.30	0.33	0.34	0.36	0.40
68		All homogeneous branches.....	92.80	92.65	92.08	91.78	92.12	90.00
69		Private households.....	7.20	7.35	7.92	8.22	7.88	10.00
70		All homogeneous branches and private households.....	100.00	100.00	100.00	100.00	100.00	100.00

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.5: Withdrawal of water from nature
mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	309	309	273	262	324	385
2	01	Products of agriculture, hunting and related services.....	309	309	273	261	323	383
3	02	Products of forestry, logging and related services.....	-	-	-	1	0	1
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	0	0	1
5	B	Mining and quarrying.....	1,470	1,469	1,694	1,692	1,563	1,474
6	05	Coal and lignite.....	1,074	987	1,293	1,274	1,208	1,080
7	06	Crude petroleum and natural gas.....	2	2	3	2	1	3
8	07-09	Metal ores, other mining and quarrying products.....	393	480	398	416	353	391
9	C	Manufactured products.....	5,012	4,527	4,637	4,297	4,150	3,495
10	10-12	Food products, beverages, tobacco products.....	320	300	289	289	288	245
11	13-15	Textiles, wearing apparel, leather and related products.....	59	42	30	26	20	15
12	16	Wood and products of wood and cork, except furniture.....	13	10	7	8	6	3
13	17	Paper and paper products.....	331	355	366	405	399	423
14	18	Printing and recording services.....	6	7	8	8	5	4
15	19	Coke and refined petroleum products.....	181	159	150	142	151	82
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	3,230	2,860	2,962	2,600	2,387	2,029
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	34	32
20	22	Rubber and plastic products.....	84	74	66	48	46	44
21	23	Other non-metallic mineral products.....	134	130	133	126	143	128
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	476	409	413	450	435	350
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	28	26	28	26	20	15
29	26	Computer, electronic and optical products.....	51	55	55	51	31	24
30	27	Electrical equipment.....	12	13	9	13	9	10
31	28	Machinery and equipment n.e.c.....	29	33	73	43	34	26
32	29	Motor vehicles, trailers and semi-trailers.....	44	43	36	41	87	43
33	30	Other transport equipment.....	8	10	9	18	15	9
34	31-32	Furniture, other manufactured goods.....	3	3	3	3	2	3
35	33	Repair and installation services of machinery and equipment.....	-	-	0	1	38	8
36	D (35)	Electricity, gas, steam and air conditioning.....	26,718	26,144	23,402	20,579	21,381	13,830
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	11,329	11,372	10,456	10,844	10,612	10,424
40	36	Natural water; water treatment and supply services.....	6,256	6,137	6,235	5,972	5,640	5,605
41	37-39	Sewerage services; waste collection and materials recovery services.....	5,073	5,235	4,221	4,872	4,972	4,819
42	37	Sewerage services, sewerage sludge.....	5,073	5,235	4,221	4,872	4,972	4,819
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	0	0
44	F	Constructions and construction works.....	32	31	25	24	25	27
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	0	0	0	0	0	0
48	45	Wholesale and retail trade and repair services of motor vehicles.....	0	0	0	0	0	0
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	0	0	0	0	0	0
50	47	Retail trade services; except of motor vehicles and motorcycles.....	0	0	0	0	0	0
51	H	Transportation and storage services.....	2	2	2	2	2	2
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	2	2
54	50	Water transport services.....	0	0	0	0	0	0
55	51	Air transport services.....	0	0	0	0	0	0
56	52	Warehousing and support services for transportation.....	0	0	0	0	0	0
57	53	Postal and courier services.....	0	0	0	0	0	0
58	I	Accommodation and food services.....	0	0	0	0	0	0
59	J	Information and communication services.....	0	0	0	0	0	0
60	K	Financial and insurance services.....	0	0	0	0	0	0
61	L	Real estate services.....	0	0	0	0	0	0
62	M	Professional, scientific and technical services.....	0	0	0	0	0	0
63	N	Administrative and support services.....	0	0	0	0	0	0
64	O	Public administration and defence services.....	4	3	3	3	3	3
65	P	Education services.....	0	0	0	0	0	0
66	Q	Human health and social work services.....	2	2	2	2	2	2
67	R-T	Other services.....	18	15	15	13	20	20
68		All homogeneous branches.....	44,897	43,874	40,509	37,719	38,081	29,662
69		Private households.....	32	26	28	28	23	24
70		All homogeneous branches and private households.....	44,929	43,899	40,537	37,747	38,104	29,686

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.6: Water received

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	158	158	152	134	137	159
2	01	Products of agriculture, hunting and related services.....	158	158	152	134	137	159
3	02	Products of forestry, logging and related services.....	-	-	-	0	0	0
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	0	0	0
5	B	Mining and quarrying.....	58	40	41	36	27	22
6	05	Coal and lignite.....	48	37	39	33	23	20
7	06	Crude petroleum and natural gas.....	1	1	1	1	2	0
8	07-09	Metal ores, other mining and quarrying products.....	10	2	2	3	2	2
9	C	Manufactured products.....	1,167	1,079	1,190	1,139	896	906
10	10-12	Food products, beverages, tobacco products.....	252	233	191	242	169	171
11	13-15	Textiles, wearing apparel, leather and related products.....	15	14	12	13	18	15
12	16	Wood and products of wood and cork, except furniture.....	12	10	9	7	6	5
13	17	Paper and paper products.....	22	18	29	28	30	31
14	18	Printing and recording services.....	5	5	5	4	3	3
15	19	Coke and refined petroleum products.....	37	43	43	49	53	36
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	581	505	643	572	370	429
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	32	19
20	22	Rubber and plastic products.....	26	27	25	24	19	17
21	23	Other non-metallic mineral products.....	44	43	42	36	38	33
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	72	80	83	73	74	65
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	25	22	24	19	18	18
29	26	Computer, electronic and optical products.....	21	22	22	21	16	17
30	27	Electrical equipment.....	10	8	6	11	5	5
31	28	Machinery and equipment n.e.c.....	15	16	21	12	13	12
32	29	Motor vehicles, trailers and semi-trailers.....	24	26	27	21	17	17
33	30	Other transport equipment.....	6	6	6	5	3	3
34	31-32	Furniture, other manufactured goods.....	3	2	2	2	5	5
35	33	Repair and installation services of machinery and equipment.....	-	-	-	0	9	3
36	D (35)	Electricity, gas, steam and air conditioning.....	393	410	449	427	370	365
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	-5,561	-5,465	-5,587	-5,351	-5,011	-4,994
40	36	Natural water; water treatment and supply services.....	-5,570	-5,474	-5,594	-5,360	-5,020	-4,998
41	37-39	Sewerage services; waste collection and materials recovery services.....	9	9	7	10	9	4
42	37	Sewerage services, sewerage sludge.....	9	9	7	10	5	3
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	4	1
44	F	Constructions and construction works.....	17	17	14	13	14	16
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair services of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade services; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage services.....	36	34	35	35	37	39
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	23	24
54	50	Water transport services.....	2	2	2	2	2	2
55	51	Air transport services.....	5	5	5	6	6	6
56	52	Warehousing and support services for transportation.....	3	3	4	4	4	4
57	53	Postal and courier services.....	3	3	3	3	2	3
58	I	Accommodation and food services.....	71	72	71	91	116	115
59	J	Information and communication services.....	6	7	8	5	34	36
60	K	Financial and insurance services.....	9	9	9	11	8	8
61	L	Real estate services.....	2	2	3	3	3	3
62	M	Professional, scientific and technical services.....	19	20	15	16	19	19
63	N	Administrative and support services.....	15	16	14	15	16	17
64	O	Public administration and defence services.....	44	38	37	29	31	30
65	P	Education services.....	85	84	85	85	86	89
66	Q	Human health and social work services.....	101	101	101	65	66	70
67	R-T	Other services.....	116	117	117	115	118	99
68		All homogeneous branches.....	-3,207	-3,206	-3,191	-3,076	-2,982	-2,946
69		Private households.....	3,200	3,198	3,182	3,075	2,981	2,943
70		All homogeneous branches and private households.....	-7	-7	-9	-1	-1	-3

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.7: Water intensity - use of water per gross value added, price-adjusted
Index 2000=100

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	100	89.6	92.4	96.9	.	.
2	B	Mining and quarrying.....	100	102.5	130.3	101.8	78.1	105.9
3	C	Manufactured products.....	100	90.2	91.4	73.8	73.6	61.5
4	D (35)	Electricity, gas, steam and air conditioning.....	100	98.8	70.9	52.3	43.9	34.7
5	E	Water supply; sewerage, waste management and remediation services.....	100	104.4	79.3	82.6	82.2	74.6
6	F	Constructions and construction works.....	100	104.7	96.3	88.9	82.7	86.0
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	100	95.5	95.0	89.2	86.8	95.9
8	H	Transportation and storage services.....	100	90.1	89.1	78.0	83.1	81.3
9	I	Accommodation and food services.....	100	100.5	105.0	125.4	.	.
10	J	Information and communication services.....	100	96.3	122.6	72.8	.	.
11	K	Financial and insurance services.....	100	96.5	77.1	106.7	79.8	85.5
12	L	Real estate services.....	100	99.1	108.6	98.2	90.6	99.3
13	M	Professional, scientific and technical services.....	100	99.5	77.3	73.8	95.4	87.9
14	N	Administrative and support services.....	100	102.6	89.4	80.4	85.7	76.8
15	O	Public administration and defence services.....	100	84.6	84.1	66.0	65.4	62.4
16	P	Education services.....	100	97.5	96.2	94.3	89.8	86.5
17	Q	Human health and social work services.....	100	98.4	90.8	57.3	52.3	50.7
18	R-T	Other services.....	100	97.3	94.7	87.6	94.7	79.4
19		All homogeneous branches.....	100	95.5	86.1	73.5	75.3	54.7

¹ Statistical classification of products by activity (CPA) of the European Union (2008 edition).

² Preliminary results.

Table 6.8: Withdrawal of water from nature

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	309	309	273	262	325	390
2	01	Crop and animal production, hunting and related services.....	309	309	273	261	325	388
3	02	Forestry and logging.....	0	0	0	1	0	1
4	03	Fishing and aquaculture.....	0	0	0	0	0	1
5	B	Mining and quarrying.....	2,496	2,520	2,426	2,434	2,189	1,979
6	05	Mining of coal and lignite.....	2,097	2,035	2,025	2,015	1,835	1,582
7	06	Extraction of crude petroleum and natural gas.....	2	2	3	3	1	3
8	07-09	Mining of metal ores, other mining and quarrying.....	397	483	398	416	354	394
9	C	Manufacturing.....	5,985	5,374	5,412	4,958	4,660	4,227
10	10-12	Manufacture of food products, beverages and tobacco products.....	330	310	299	298	291	283
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	60	43	31	26	20	16
12	16	Manufacture of wood and products of wood and cork, except furniture.....	14	12	8	8	6	5
13	17	Manufacture of paper and paper products.....	571	522	522	504	486	446
14	18	Printing and reproduction of recorded media.....	6	7	8	8	5	5
15	19	Manufacture of coke and refined petroleum products.....	196	180	168	155	165	148
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	3,660	3,200	3,251	2,888	2,545	2,344
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	35	36
20	22	Manufacture of rubber and plastic products.....	88	80	69	50	47	50
21	23	Manufacture of other non-metallic mineral products.....	136	132	135	127	144	130
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	740	695	692	681	675	558
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	29	28	30	27	21	18
29	26	Manufacture of computer, electronic and optical products.....	52	58	57	52	32	30
30	27	Manufacture of electrical equipment.....	13	13	10	14	10	11
31	28	Manufacture of machinery and equipment n.e.c.....	32	36	76	53	35	30
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	45	45	44	44	89	87
33	30	Manufacture of other transport equipment.....	9	10	9	19	15	11
34	31-32	Manufacture of furniture, other manufacturing.....	3	3	3	3	3	3
35	33	Repair and installation of machinery and equipment.....	0	0	0	1	38	15
36	D (35)	Electricity, gas, steam and air conditioning supply.....	25,349	24,837	22,470	19,748	20,656	13,577
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	20,587	13,549
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	69	28
39	E	Water supply; sewerage, waste management and remediation activities.....	10,699	10,780	9,881	10,271	10,198	9,436
40	36	Water collection, treatment and supply.....	5,626	5,546	5,660	5,399	5,226	4,617
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	5,073	5,235	4,221	4,872	4,972	4,819
42	37	Sewerage.....	5,073	5,235	4,221	4,872	4,972	4,819
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	0	0
44	F	Construction.....	32	31	25	24	25	27
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	0	0	0	0	0	0
48	45	Wholesale and retail trade and repair of motor vehicles.....	0	0	0	0	0	0
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	0	0	0	0	0	0
50	47	Retail trade; except of motor vehicles and motorcycles.....	0	0	0	0	0	0
51	H	Transportation and storage.....	2	2	2	2	2	2
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	2	2
54	50	Water transport.....	0	0	0	0	0	0
55	51	Air transport.....	0	0	0	0	0	0
56	52	Warehousing and support activities for transportation.....	0	0	0	0	0	0
57	53	Postal and courier activities.....	0	0	0	0	0	0
58	I	Accommodation and food service activities.....	0	0	0	0	0	0
59	J	Information and communication.....	0	0	0	0	0	0
60	K	Financial and insurance activities.....	0	0	0	0	0	0
61	L	Real estate activities.....	0	0	0	0	0	0
62	M	Professional, scientific and technical activities.....	0	0	0	0	0	0
63	N	Administrative and support service activities.....	0	0	0	0	0	0
64	O	Public administration and defence; compulsory social security.....	4	3	3	3	3	3
65	P	Education.....	0	0	0	0	0	0
66	Q	Human health and social work activities.....	2	2	2	2	2	2
67	R-t	Other service activities.....	18	15	15	13	20	20
68		All industries.....	44,897	43,874	40,509	37,719	38,081	29,662
69		Private households (domestic consumption).....	32	26	28	28	23	24
70		All industries and private households (residents concept).....	44,929	43,899	40,537	37,747	38,104	29,686

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.9: Water received

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	158	158	152	134	136	153
2	01	Crop and animal production, hunting and related services.....	158	158	152	134	136	153
3	02	Forestry and logging.....	-	-	-	0	0	0
4	03	Fishing and aquaculture.....	-	-	-	0	0	0
5	B	Mining and quarrying.....	-240	-273	-247	-247	-246	-240
6	05	Mining of coal and lignite.....	-247	-273	-250	-250	-250	-242
7	06	Extraction of crude petroleum and natural gas.....	1	1	1	1	2	0
8	07-09	Mining of metal ores, other mining and quarrying.....	6	-1	2	3	2	1
9	C	Manufacturing.....	835	801	903	848	757	741
10	10-12	Manufacture of food products, beverages and tobacco products.....	248	228	184	235	168	164
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	14	14	11	12	18	15
12	16	Manufacture of wood and products of wood and cork, except furniture.....	12	9	8	7	6	5
13	17	Manufacture of paper and paper products.....	22	18	18	24	26	26
14	18	Printing and reproduction of recorded media.....	5	5	5	4	3	3
15	19	Manufacture of coke and refined petroleum products.....	36	41	42	47	50	36
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	303	288	426	342	273	314
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	31	18
20	22	Manufacture of rubber and plastic products.....	24	25	23	24	19	16
21	23	Manufacture of other non-metallic mineral products.....	42	41	41	35	37	33
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	35	39	49	45	46	41
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	25	22	24	18	17	18
29	26	Manufacture of computer, electronic and optical products.....	19	19	20	19	14	15
30	27	Manufacture of electrical equipment.....	9	7	6	11	5	5
31	28	Manufacture of machinery and equipment n.e.c.....	13	13	18	2	12	11
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	23	24	20	18	15	15
33	30	Manufacture of other transport equipment.....	5	6	6	3	3	2
34	31-32	Manufacture of furniture, other manufacturing.....	3	2	2	2	5	5
35	33	Repair and installation of machinery and equipment.....	-	-	-	0	9	-1
36	D (35)	Electricity, gas, steam and air conditioning supply.....	393	410	449	427	370	-191
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	370	-171
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	0	-20
39	E	Water supply; sewerage, waste management and remediation activities.....	-4,931	-4,873	-5,012	-4,777	-4,597	-4,006
40	36	Water collection, treatment and supply.....	-4,940	-4,882	-5,019	-4,787	-4,606	-4,010
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	9	9	7	10	9	4
42	37	Sewerage.....	9	9	7	10	5	3
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	4	1
44	F	Construction.....	17	17	14	13	14	16
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage.....	36	34	35	35	37	39
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	23	24
54	50	Water transport.....	2	2	2	2	2	2
55	51	Air transport.....	5	5	5	6	6	6
56	52	Warehousing and support activities for transportation.....	3	3	4	4	4	4
57	53	Postal and courier activities.....	3	3	3	3	2	3
58	I	Accommodation and food service activities.....	71	72	71	91	116	115
59	J	Information and communication.....	6	7	8	5	34	36
60	K	Financial and insurance activities.....	9	9	9	11	8	8
61	L	Real estate activities.....	2	2	3	3	3	3
62	M	Professional, scientific and technical activities.....	19	20	15	16	19	19
63	N	Administrative and support service activities.....	15	16	14	15	16	17
64	O	Public administration and defence; compulsory social security.....	44	38	37	29	31	30
65	P	Education.....	85	84	85	85	86	89
66	Q	Human health and social work activities.....	101	101	101	65	66	70
67	R-t	Other service activities.....	116	117	117	115	118	99
68		All industries.....	-3,207	-3,206	-3,191	-3,076	-2,982	-2,946
69		Private households (domestic consumption).....	3,200	3,198	3,182	3,075	2,981	2,943
70		All industries and private households (residents concept).....	-7	-7	-9	-1	-1	-3

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 6.10: Use of water

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	467	467	425	397	461	543
2	01	Crop and animal production, hunting and related services.....	467	467	425	395	461	542
3	02	Forestry and logging.....	0	0	0	1	0	1
4	03	Fishing and aquaculture.....	0	0	0	0	0	1
5	B	Mining and quarrying.....	2,257	2,247	2,179	2,188	1,944	1,739
6	05	Mining of coal and lignite.....	1,850	1,762	1,775	1,765	1,585	1,340
7	06	Extraction of crude petroleum and natural gas.....	3	3	4	4	3	3
8	07-09	Mining of metal ores, other mining and quarrying.....	403	482	400	419	356	396
9	C	Manufacturing.....	6,820	6,174	6,315	5,806	5,417	4,967
10	10-12	Manufacture of food products, beverages and tobacco products.....	578	537	484	533	458	447
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	74	57	42	38	38	31
12	16	Manufacture of wood and products of wood and cork, except furniture.....	26	21	16	15	12	10
13	17	Manufacture of paper and paper products.....	593	540	541	528	512	472
14	18	Printing and reproduction of recorded media.....	11	12	12	12	8	8
15	19	Manufacture of coke and refined petroleum products.....	232	221	210	202	215	184
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	3,963	3,488	3,676	3,230	2,818	2,658
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	66	54
20	22	Manufacture of rubber and plastic products.....	112	105	92	73	66	65
21	23	Manufacture of other non-metallic mineral products.....	178	173	176	162	181	163
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	774	734	742	726	721	598
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	54	50	54	46	38	36
29	26	Manufacture of computer, electronic and optical products.....	71	77	77	72	47	45
30	27	Manufacture of electrical equipment.....	22	21	16	25	15	17
31	28	Manufacture of machinery and equipment n.e.c.....	44	49	94	55	47	42
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	68	69	63	62	104	103
33	30	Manufacture of other transport equipment.....	14	15	15	22	17	14
34	31-32	Manufacture of furniture, other manufacturing.....	6	5	6	4	7	8
35	33	Repair and installation of machinery and equipment.....	0	0	0	1	47	14
36	D (35)	Electricity, gas, steam and air conditioning supply.....	25,742	25,247	22,919	20,176	21,026	13,385
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	20,957	13,378
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	69	7
39	E	Water supply; sewerage, waste management and remediation activities.....	5,768	5,907	4,869	5,494	5,601	5,430
40	36	Water collection, treatment and supply.....	686	663	641	612	620	607
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	5,082	5,244	4,228	4,882	4,981	4,823
42	37	Sewerage.....	5,082	5,244	4,228	4,882	4,977	4,822
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	4	1
44	F	Construction.....	49	48	39	37	39	43
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage.....	39	36	37	37	39	41
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	25	26
54	50	Water transport.....	2	2	2	2	2	2
55	51	Air transport.....	5	5	5	6	6	6
56	52	Warehousing and support activities for transportation.....	3	3	4	4	4	4
57	53	Postal and courier activities.....	3	3	3	3	2	3
58	I	Accommodation and food service activities.....	71	72	71	91	116	115
59	J	Information and communication.....	6	7	8	5	34	36
60	K	Financial and insurance activities.....	9	9	9	11	8	8
61	L	Real estate activities.....	2	2	3	3	3	3
62	M	Professional, scientific and technical activities.....	19	20	15	16	19	19
63	N	Administrative and support service activities.....	15	16	14	15	16	17
64	O	Public administration and defence; compulsory social security.....	48	41	41	32	34	33
65	P	Education.....	85	84	85	85	86	89
66	Q	Human health and social work activities.....	104	104	103	67	68	72
67	R-t	Other service activities.....	134	131	132	128	138	118
68		All industries.....	41,689	40,668	37,319	34,643	35,099	26,716
69		Private households (domestic consumption).....	3,233	3,224	3,209	3,103	3,004	2,967
70		All industries and private households (residents concept).....	44,922	43,892	40,528	37,746	38,103	29,683

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.1: Waste water

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	30	30	22	21	21	20
2	01	Products of agriculture, hunting and related services.....	30	30	22	21	21	20
3	02	Products of forestry, logging and related services.....	-	-	-	0	0	-
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	-	-	-
5	B	Mining and quarrying.....	1,472	1,474	1,696	1,678	1,535	1,446
6	05	Coal and lignite.....	1,105	1,021	1,320	1,291	1,206	1,080
7	06	Crude petroleum and natural gas.....	3	2	3	2	2	2
8	07-09	Metal ores, other mining and quarrying products.....	365	451	374	385	327	364
9	C	Manufactured products.....	5,698	5,103	5,381	5,039	4,624	3,979
10	10-12	Food products, beverages, tobacco products.....	449	418	391	410	372	348
11	13-15	Textiles, wearing apparel, leather and related products.....	49	48	35	28	22	18
12	16	Wood and products of wood and cork, except furniture.....	13	10	7	7	4	3
13	17	Paper and paper products.....	314	339	362	392	381	396
14	18	Printing and recording services.....	9	9	9	8	5	4
15	19	Coke and refined petroleum products.....	141	112	157	146	147	79
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	3,743	3,290	3,528	3,165	2,750	2,372
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	39	36
20	22	Rubber and plastic products.....	96	86	77	54	51	47
21	23	Other non-metallic mineral products.....	135	131	141	127	136	128
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	518	422	408	444	429	344
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	32	28	40	37	29	27
29	26	Computer, electronic and optical products.....	67	74	74	67	43	39
30	27	Electrical equipment.....	19	18	13	18	13	14
31	28	Machinery and equipment n.e.c.....	39	43	66	54	41	33
32	29	Motor vehicles, trailers and semi-trailers.....	56	56	55	57	100	61
33	30	Other transport equipment.....	14	15	14	21	16	11
34	31-32	Furniture, other manufactured goods.....	5	4	4	3	5	6
35	33	Repair and installation services of machinery and equipment.....	.	.	0	1	40	11
36	D (35)	Electricity, gas, steam and air conditioning.....	26,171	25,720	22,933	19,876	20,754	13,914
37	35.1/.3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	156	157	166	174	165	154
40	36	Natural water; water treatment and supply services.....	133	133	145	150	145	136
41	37-39	Sewerage services; waste collection and materials recovery services.....	23	23	21	24	20	18
42	37	Sewerage services, sewerage sludge.....	23	23	21	24	18	18
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	2	0
44	F	Constructions and construction works.....	48	47	38	37	38	42
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	50	51	51	51	47	53
48	45	Wholesale and retail trade and repair services of motor vehicles.....	20	21	21	23	19	23
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	10	10	9	9	9	11
50	47	Retail trade services; except of motor vehicles and motorcycles.....	20	20	20	19	18	19
51	H	Transportation and storage services.....	33	29	33	33	35	37
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	23	24
54	50	Water transport services.....	1	1	1	1	1	1
55	51	Air transport services.....	3	1	5	5	6	6
56	52	Warehousing and support services for transportation.....	3	3	3	4	3	4
57	53	Postal and courier services.....	3	3	3	3	2	3
58	I	Accommodation and food services.....	65	67	66	84	107	106
59	J	Information and communication services.....	6	6	7	5	31	32
60	K	Financial and insurance services.....	8	8	8	10	8	8
61	L	Real estate services.....	2	2	3	3	2	3
62	M	Professional, scientific and technical services.....	18	18	14	15	18	18
63	N	Administrative and support services.....	14	15	14	14	15	16
64	O	Public administration and defence services.....	30	28	27	20	21	21
65	P	Education services.....	79	78	79	79	80	82
66	Q	Human health and social work services.....	96	96	96	62	63	67
67	R-T	Other services.....	94	93	92	92	92	80
68		All homogeneous branches.....	34,072	33,022	30,725	27,292	27,655	20,075
69		Private households.....	3,284	3,275	3,267	3,182	3,086	3,068
70		All homogeneous branches and private households.....	37,356	36,296	33,992	30,473	30,741	23,143

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.2: Waste water

2000 = 100

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	100	100	73	69	71	68
2	01	Products of agriculture, hunting and related services.....	100	100	73	69	71	68
3	02	Products of forestry, logging and related services.....	-	-	-	-	-	-
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	-	-	-
5	B	Mining and quarrying.....	100	100	115	114	104	98
6	05	Coal and lignite.....	100	92	119	117	109	98
7	06	Crude petroleum and natural gas.....	100	91	101	62	94	81
8	07-09	Metal ores, other mining and quarrying products.....	100	123	102	105	89	100
9	C	Manufactured products.....	100	90	94	88	81	70
10	10-12	Food products, beverages, tobacco products.....	100	93	87	91	83	78
11	13-15	Textiles, wearing apparel, leather and related products.....	100	98	73	58	46	36
12	16	Wood and products of wood and cork, except furniture.....	100	75	50	51	29	21
13	17	Paper and paper products.....	100	108	116	125	122	126
14	18	Printing and recording services.....	100	93	92	89	56	46
15	19	Coke and refined petroleum products.....	100	80	111	104	105	56
16	19.1	Coke oven products.....	-	-	-	-	-	-
17	19.2	Refined petroleum products.....	-	-	-	-	-	-
18	20	Chemicals and chemical products 3.....	100	88	94	85	73	63
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	-	-	-	-	-	-
20	22	Rubber and plastic products.....	100	90	80	57	54	49
21	23	Other non-metallic mineral products.....	100	97	105	94	101	95
22	23.1	Glass and glass products.....	-	-	-	-	-	-
23	23.2-9	Refractory products, cut, shaped and finished stone.....	-	-	-	-	-	-
24	24	Basic metals.....	100	81	79	86	83	66
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	-	-	-	-	-	-
26	24.4	Basic precious and other non-ferrous metals.....	-	-	-	-	-	-
27	24.5	Casting services of metals.....	-	-	-	-	-	-
28	25	Fabricated metal products, except machinery and equipment.....	100	88	125	115	91	84
29	26	Computer, electronic and optical products.....	100	110	110	100	63	59
30	27	Electrical equipment.....	100	93	71	96	70	72
31	28	Machinery and equipment n.e.c.....	100	112	169	139	105	85
32	29	Motor vehicles, trailers and semi-trailers.....	100	101	99	103	179	110
33	30	Other transport equipment.....	100	108	100	153	116	81
34	31-32	Furniture, other manufactured goods.....	100	80	88	70	115	131
35	33	Repair and installation services of machinery and equipment.....	-	-	-	-	-	-
36	D (35)	Electricity, gas, steam and air conditioning.....	100	98	88	76	79	53
37	35.1/.3	Electricity, transmission and distribution services, steam.....	-	-	-	-	-	-
38	35.2	Manufactured gas.....	-	-	-	-	-	-
39	E	Water supply; sewerage, waste management and remediation services.....	100	100	106	111	105	99
40	36	Natural water; water treatment and supply services.....	100	100	109	113	109	103
41	37-39	Sewerage services; waste collection and materials recovery services.....	100	99	89	103	87	77
42	37	Sewerage services, sewerage sludge.....	100	99	89	103	77	76
43	38-39	Waste collection, treatment and disposal services.....	-	-	-	-	-	-
44	F	Constructions and construction works.....	100	98	79	76	79	87
45	41-42	Building and building construction works.....	-	-	-	-	-	-
46	43	Specialised construction works.....	-	-	-	-	-	-
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	100	101	100	101	93	105
48	45	Wholesale and retail trade and repair services of motor vehicles.....	100	102	106	112	95	116
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	100	99	93	88	93	107
50	47	Retail trade services; except of motor vehicles and motorcycles.....	100	100	99	95	91	92
51	H	Transportation and storage services.....	100	89	102	101	108	114
52	49.1-2	Passenger rail transport services, freight rail transport services.....	-	-	-	-	-	-
53	49.3-5	Other passenger land transport services, transport services via pipeline...	-	-	-	-	-	-
54	50	Water transport services.....	100	91	90	91	93	93
55	51	Air transport services.....	100	45	194	186	216	217
56	52	Warehousing and support services for transportation.....	100	103	114	116	109	120
57	53	Postal and courier services.....	100	98	100	97	75	85
58	I	Accommodation and food services.....	100	102	100	129	163	162
59	J	Information and communication services.....	100	105	123	87	545	562
60	K	Financial and insurance services.....	100	99	98	127	91	91
61	L	Real estate services.....	100	102	113	115	106	118
62	M	Professional, scientific and technical services.....	100	103	78	82	100	98
63	N	Administrative and support services.....	100	104	96	102	108	113
64	O	Public administration and defence services.....	100	90	89	66	70	68
65	P	Education services.....	100	99	100	100	101	104
66	Q	Human health and social work services.....	100	100	100	64	65	69
67	R-T	Other services.....	100	98	98	98	98	85
68		All homogeneous branches.....	100	97	90	80	81	59
69		Private households.....	100	100	99	97	94	93
70		All homogeneous branches and private households.....	100	97	91	82	82	62

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.3: Waste water
percentage of total

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	0.08	0.08	0.06	0.07	0.07	0.09
2	01	Products of agriculture, hunting and related services.....	0.08	0.08	0.06	0.07	0.07	0.09
3	02	Products of forestry, logging and related services.....	0.00	0.00	0.00	0.00	0.00	0.00
4	03	Fish and other fishing products; aquaculture products.....	0.00	0.00	0.00	0.00	0.00	0.00
5	B	Mining and quarrying.....	3.94	4.06	4.99	5.51	4.99	6.25
6	05	Coal and lignite.....	2.96	2.81	3.88	4.24	3.92	4.66
7	06	Crude petroleum and natural gas.....	0.01	0.01	0.01	0.01	0.01	0.01
8	07-09	Metal ores, other mining and quarrying products.....	0.98	1.24	1.10	1.26	1.06	1.57
9	C	Manufactured products.....	15.25	14.06	15.83	16.54	15.04	17.19
10	10-12	Food products, beverages, tobacco products.....	1.20	1.15	1.15	1.34	1.21	1.50
11	13-15	Textiles, wearing apparel, leather and related products.....	0.13	0.13	0.10	0.09	0.07	0.08
12	16	Wood and products of wood and cork, except furniture.....	0.04	0.03	0.02	0.02	0.01	0.01
13	17	Paper and paper products.....	0.84	0.93	1.07	1.29	1.24	1.71
14	18	Printing and recording services.....	0.03	0.02	0.03	0.03	0.02	0.02
15	19	Coke and refined petroleum products.....	0.38	0.31	0.46	0.48	0.48	0.34
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products ³	10.02	9.06	10.38	10.38	8.95	10.25
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	0.13	0.16
20	22	Rubber and plastic products.....	0.26	0.24	0.23	0.18	0.17	0.20
21	23	Other non-metallic mineral products.....	0.36	0.36	0.42	0.42	0.44	0.56
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	1.39	1.16	1.20	1.46	1.39	1.49
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	0.09	0.08	0.12	0.12	0.10	0.12
29	26	Computer, electronic and optical products.....	0.18	0.20	0.22	0.22	0.14	0.17
30	27	Electrical equipment.....	0.05	0.05	0.04	0.06	0.04	0.06
31	28	Machinery and equipment n.e.c.....	0.10	0.12	0.19	0.18	0.13	0.14
32	29	Motor vehicles, trailers and semi-trailers.....	0.15	0.15	0.16	0.19	0.32	0.26
33	30	Other transport equipment.....	0.04	0.04	0.04	0.07	0.05	0.05
34	31-32	Furniture, other manufactured goods.....	0.01	0.01	0.01	0.01	0.02	0.03
35	33	Repair and installation services of machinery and equipment.....	0.00	0.00	-0.00	0.00	0.13	0.05
36	D (35)	Electricity, gas, steam and air conditioning.....	70.06	70.86	67.46	65.22	67.51	60.12
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	0.42	0.43	0.49	0.57	0.54	0.67
40	36	Natural water; water treatment and supply services.....	0.36	0.37	0.43	0.49	0.47	0.59
41	37-39	Sewerage services; waste collection and materials recovery services.....	0.06	0.06	0.06	0.08	0.07	0.08
42	37	Sewerage services, sewerage sludge.....	0.06	0.06	0.06	0.08	0.06	0.08
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	0.01	0.00
44	F	Constructions and construction works.....	0.13	0.13	0.11	0.12	0.12	0.18
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	0.13	0.14	0.15	0.17	0.15	0.23
48	45	Wholesale and retail trade and repair services of motor vehicles.....	0.05	0.06	0.06	0.07	0.06	0.10
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	0.03	0.03	0.03	0.03	0.03	0.05
50	47	Retail trade services; except of motor vehicles and motorcycles.....	0.05	0.06	0.06	0.06	0.06	0.08
51	H	Transportation and storage services.....	0.09	0.08	0.10	0.11	0.12	0.16
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0.00	0.00
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	0.07	0.10
54	50	Water transport services.....	0.00	0.00	0.00	0.00	0.00	0.01
55	51	Air transport services.....	0.01	0.00	0.02	0.02	0.02	0.03
56	52	Warehousing and support services for transportation.....	0.01	0.01	0.01	0.01	0.01	0.02
57	53	Postal and courier services.....	0.01	0.01	0.01	0.01	0.01	0.01
58	I	Accommodation and food services.....	0.18	0.18	0.19	0.28	0.35	0.46
59	J	Information and communication services.....	0.02	0.02	0.02	0.02	0.10	0.14
60	K	Financial and insurance services.....	0.02	0.02	0.02	0.03	0.02	0.03
61	L	Real estate services.....	0.01	0.01	0.01	0.01	0.01	0.01
62	M	Professional, scientific and technical services.....	0.05	0.05	0.04	0.05	0.06	0.08
63	N	Administrative and support services.....	0.04	0.04	0.04	0.05	0.05	0.07
64	O	Public administration and defence services.....	0.08	0.08	0.08	0.07	0.07	0.09
65	P	Education services.....	0.21	0.21	0.23	0.26	0.26	0.35
66	Q	Human health and social work services.....	0.26	0.27	0.28	0.20	0.20	0.29
67	R-T	Other services.....	0.25	0.26	0.27	0.30	0.30	0.34
68		All homogeneous branches.....	91.21	90.98	90.39	89.56	89.96	86.74
69		Private households.....	8.79	9.02	9.61	10.44	10.04	13.26
70		All homogeneous branches and private households.....	100	100	100	100	100	100

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.4: Waste water intensity - waste water per gross value added, price-adjusted
Index 2000=100

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	100	89.6	74.0	79.2	94.3	80.1
2	B	Mining and quarrying.....	100	103.9	132.2	102.6	78.2	106.2
3	C	Manufactured products.....	100	89.0	91.5	74.2	73.1	60.3
4	D (35)	Electricity, gas, steam and air conditioning.....	100	99.1	70.6	51.2	43.4	35.3
5	E	Water supply; sewerage, waste management and remediation services.....	100	102.2	99.8	96.4	89.3	78.2
6	F	Constructions and construction works.....	100	104.7	96.3	88.9	82.7	85.9
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	100	95.4	94.8	88.9	86.6	95.4
8	H	Transportation and storage services.....	100	86.0	95.1	81.6	89.0	85.9
9	I	Accommodation and food services.....	100	100.5	105.0	125.3	.	.
10	J	Information and communication services.....	100	95.9	115.2	73.5	.	.
11	K	Financial and insurance services.....	100	96.6	77.3	110.2	80.0	85.9
12	L	Real estate services.....	100	99.1	108.5	98.2	90.6	99.2
13	M	Professional, scientific and technical services.....	100	99.6	78.5	75.0	97.2	89.5
14	N	Administrative and support services.....	100	102.8	90.2	81.3	88.1	78.9
15	O	Public administration and defence services.....	100	90.0	89.3	64.7	65.5	62.3
16	P	Education services.....	100	97.5	96.3	94.3	89.9	86.5
17	Q	Human health and social work services.....	100	98.4	91.1	56.9	51.9	50.4
18	R-T	Other services.....	100	97.8	94.2	90.0	90.1	76.3
19		All homogeneous branches.....	100	94.9	86.7	70.9	72.6	50.3

¹ Statistical classification of products by activity (CPA) of the European Union (2008 edition).

² Preliminary results.

Table 7.5: Waste water discharged into nature
mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	196	193	169	145	210	292
2	01	Products of agriculture, hunting and related services.....	196	193	169	143	210	291
3	02	Products of forestry, logging and related services.....	-	-	-	1	0	1
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	0	0	1
5	B	Mining and quarrying.....	1,528	1,509	1,736	1,727	1,590	1,496
6	05	Coal and lignite.....	1,122	1,024	1,332	1,306	1,231	1,100
7	06	Crude petroleum and natural gas.....	3	3	4	2	3	3
8	07-09	Metal ores, other mining and quarrying products.....	403	482	400	419	356	393
9	C	Manufactured products.....	6,139	5,566	5,786	5,396	5,006	4,360
10	10-12	Food products, beverages, tobacco products.....	533	492	440	491	417	376
11	13-15	Textiles, wearing apparel, leather and related products.....	73	56	42	38	38	30
12	16	Wood and products of wood and cork, except furniture.....	25	19	16	15	12	8
13	17	Paper and paper products.....	353	374	395	433	429	454
14	18	Printing and recording services.....	11	12	12	12	8	7
15	19	Coke and refined petroleum products.....	218	201	193	192	204	118
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	3,811	3,365	3,605	3,172	2,758	2,458
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	65	51
20	22	Rubber and plastic products.....	110	101	91	72	65	62
21	23	Other non-metallic mineral products.....	178	173	175	162	181	162
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	548	488	495	524	509	415
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	53	49	52	45	37	33
29	26	Computer, electronic and optical products.....	71	77	77	71	47	41
30	27	Electrical equipment.....	22	21	16	25	15	15
31	28	Machinery and equipment n.e.c.....	44	49	94	55	47	37
32	29	Motor vehicles, trailers and semi-trailers.....	67	69	63	62	104	61
33	30	Other transport equipment.....	14	15	15	22	17	12
34	31-32	Furniture, other manufactured goods.....	6	5	6	4	7	8
35	33	Repair and installation services of machinery and equipment.....	-	-	0	1	46	12
36	D (35)	Electricity, gas, steam and air conditioning.....	27,111	26,554	23,851	21,006	21,750	14,195
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	5,768	5,907	4,869	5,494	5,601	5,430
40	36	Natural water; water treatment and supply services.....	686	663	641	612	620	607
41	37-39	Sewerage services; waste collection and materials recovery services.....	5,082	5,244	4,228	4,882	4,981	4,823
42	37	Sewerage services, sewerage sludge.....	5,082	5,244	4,228	4,882	4,977	4,822
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	4	1
44	F	Constructions and construction works.....	49	48	39	37	39	43
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair services of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade services; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage services.....	39	36	37	37	39	41
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	25	26
54	50	Water transport services.....	2	2	2	2	2	2
55	51	Air transport services.....	5	5	5	6	6	6
56	52	Warehousing and support services for transportation.....	3	3	4	4	4	4
57	53	Postal and courier services.....	3	3	3	3	2	3
58	I	Accommodation and food services.....	71	72	71	91	116	115
59	J	Information and communication services.....	6	7	8	5	34	36
60	K	Financial and insurance services.....	9	9	9	11	8	8
61	L	Real estate services.....	2	2	3	3	3	3
62	M	Professional, scientific and technical services.....	19	20	15	16	19	19
63	N	Administrative and support services.....	15	16	14	15	16	17
64	O	Public administration and defence services.....	48	41	41	32	34	33
65	P	Education services.....	85	84	85	85	86	89
66	Q	Human health and social work services.....	104	104	103	67	68	72
67	R-T	Other services.....	134	131	132	128	138	118
68		All homogeneous branches.....	41,378	40,354	37,022	34,350	34,807	26,424
69		Private households.....	3,387	3,374	3,365	3,276	3,177	3,158
70		All homogeneous branches and private households.....	44,766	43,727	40,388	37,626	37,984	29,582

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.6: Waste water directly discharged

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	.	.	.	.	.	.
2	01	Products of agriculture, hunting and related services.....	.	.	.	.	.	.
3	02	Products of forestry, logging and related services.....	.	.	.	.	.	.
4	03	Fish and other fishing products; aquaculture products.....	.	.	.	.	.	.
5	B	Mining and quarrying.....	1,462	1,466	1,670	1,658	1,527	1,441
6	05	Coal and lignite.....	1,096	1,015	1,295	1,276	1,202	1,078
7	06	Crude petroleum and natural gas.....	2	2	2	2	2	2
8	07-09	Metal ores, other mining and quarrying products.....	363	449	373	380	323	361
9	C	Manufactured products.....	4,779	4,230	4,517	4,200	3,965	3,354
10	10-12	Food products, beverages, tobacco products.....	235	220	222	213	216	187
11	13-15	Textiles, wearing apparel, leather and related products.....	11	7	5	5	4	3
12	16	Wood and products of wood and cork, except furniture.....	9	6	4	4	2	1
13	17	Paper and paper products.....	250	279	306	328	334	351
14	18	Printing and recording services.....	5	5	6	6	3	2
15	19	Coke and refined petroleum products.....	128	99	133	128	133	73
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	3,343	2,916	3,137	2,773	2,461	2,115
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	33	29
20	22	Rubber and plastic products.....	74	65	58	42	42	38
21	23	Other non-metallic mineral products.....	106	103	114	105	113	107
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	468	377	362	413	404	316
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	22	19	23	23	18	12
29	26	Computer, electronic and optical products.....	47	52	49	50	29	24
30	27	Electrical equipment.....	13	12	9	13	9	8
31	28	Machinery and equipment n.e.c.....	23	26	48	40	30	21
32	29	Motor vehicles, trailers and semi-trailers.....	35	33	32	37	83	45
33	30	Other transport equipment.....	9	10	9	17	14	9
34	31-32	Furniture, other manufactured goods.....	3	2	2	2	2	2
35	33	Repair and installation services of machinery and equipment.....	0	0	0	0	34	9
36	D (35)	Electricity, gas, steam and air conditioning.....	26,083	25,628	22,849	19,711	20,737	13,898
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	.	.	.	.	.	39
40	36	Natural water; water treatment and supply services.....	.	.	.	.	.	39
41	37-39	Sewerage services; waste collection and materials recovery services.....	.	.	.	.	.	.
42	37	Sewerage services, sewerage sludge.....	.	.	.	.	.	.
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	.	.
44	F	Constructions and construction works.....	.	.	.	.	.	.
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	.	.	.	.	.	.
48	45	Wholesale and retail trade and repair services of motor vehicles.....	.	.	.	.	.	.
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
50	47	Retail trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
51	H	Transportation and storage services.....	.	.	.	.	.	.
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	.	.
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	.	.
54	50	Water transport services.....	.	.	.	.	.	.
55	51	Air transport services.....	.	.	.	.	.	.
56	52	Warehousing and support services for transportation.....	.	.	.	.	.	.
57	53	Postal and courier services.....	.	.	.	.	.	.
58	I	Accommodation and food services.....	.	.	.	.	.	.
59	J	Information and communication services.....	.	.	.	.	.	.
60	K	Financial and insurance services.....	.	.	.	.	.	.
61	L	Real estate services.....	.	.	.	.	.	.
62	M	Professional, scientific and technical services.....	.	.	.	.	.	.
63	N	Administrative and support services.....	.	.	.	.	.	.
64	O	Public administration and defence services.....	.	.	.	.	.	.
65	P	Education services.....	.	.	.	.	.	.
66	Q	Human health and social work services.....	.	.	.	.	.	.
67	R-T	Other services.....	.	.	.	.	.	.
68		All homogeneous branches.....	32,323	31,324	29,036	25,570	26,230	18,732
69		Private households.....	205	180	186	203	202	219
70		All homogeneous branches and private households.....	32,528	31,504	29,222	25,772	26,431	18,951

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.7: Waste water indirectly discharged

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	30	30	22	21	21	20
2	01	Products of agriculture, hunting and related services.....	30	30	22	21	21	20
3	02	Products of forestry, logging and related services.....	0	0	0	0	0	0
4	03	Fish and other fishing products; aquaculture products.....	0	0	0	0	0	0
5	B	Mining and quarrying.....	11	8	26	20	7	4
6	05	Coal and lignite.....	8	6	25	15	3	1
7	06	Crude petroleum and natural gas.....	0	0	0	0	0	0
8	07-09	Metal ores, other mining and quarrying products.....	2	1	1	5	4	3
9	C	Manufactured products.....	919	873	864	839	659	625
10	10-12	Food products, beverages, tobacco products.....	214	199	170	196	156	161
11	13-15	Textiles, wearing apparel, leather and related products.....	37	41	31	23	18	15
12	16	Wood and products of wood and cork, except furniture.....	5	4	3	3	2	2
13	17	Paper and paper products.....	63	59	56	64	47	45
14	18	Printing and recording services.....	4	4	3	2	2	2
15	19	Coke and refined petroleum products.....	13	13	24	17	14	6
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	400	374	390	391	289	257
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	5	7
20	22	Rubber and plastic products.....	22	21	19	12	9	9
21	23	Other non-metallic mineral products.....	29	28	27	22	23	21
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	51	45	46	30	25	27
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Castings services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	11	9	18	14	12	15
29	26	Computer, electronic and optical products.....	21	22	25	17	13	15
30	27	Electrical equipment.....	6	6	5	6	4	6
31	28	Machinery and equipment n.e.c.....	16	18	18	14	11	12
32	29	Motor vehicles, trailers and semi-trailers.....	21	23	23	20	17	17
33	30	Other transport equipment.....	5	5	5	4	2	2
34	31-32	Furniture, other manufactured goods.....	2	2	2	1	3	4
35	33	Repair and installation services of machinery and equipment.....	0	0	0	1	6	2
36	D (35)	Electricity, gas, steam and air conditioning.....	88	92	84	164	16	16
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	156	157	166	174	165	115
40	36	Natural water; water treatment and supply services.....	133	133	145	150	145	97
41	37-39	Sewerage services; waste collection and materials recovery services.....	23	23	21	24	20	18
42	37	Sewerage services, sewerage sludge.....	23	23	21	24	18	18
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	2	0
44	F	Constructions and construction works.....	48	47	38	37	38	42
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	50	51	51	51	47	53
48	45	Wholesale and retail trade and repair services of motor vehicles.....	20	21	21	23	19	23
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	10	10	9	9	9	11
50	47	Retail trade services; except of motor vehicles and motorcycles.....	20	20	20	19	18	19
51	H	Transportation and storage services.....	33	29	33	33	35	37
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	23	24
54	50	Water transport services.....	1	1	1	1	1	1
55	51	Air transport services.....	3	1	5	5	6	6
56	52	Warehousing and support services for transportation.....	3	3	3	4	3	4
57	53	Postal and courier services.....	3	3	3	3	2	3
58	I	Accommodation and food services.....	65	67	66	84	107	106
59	J	Information and communication services.....	6	6	7	5	31	32
60	K	Financial and insurance services.....	8	8	8	10	8	8
61	L	Real estate services.....	2	2	3	3	2	3
62	M	Professional, scientific and technical services.....	18	18	14	15	18	18
63	N	Administrative and support services.....	14	15	14	14	15	16
64	O	Public administration and defence services.....	30	28	27	20	21	21
65	P	Education services.....	79	78	79	79	80	82
66	Q	Human health and social work services.....	96	96	96	62	63	67
67	R-T	Other services.....	94	93	92	92	92	80
68		All homogeneous branches.....	1,748	1,697	1,689	1,722	1,426	1,344
69		Private households.....	3,079	3,095	3,081	2,979	2,884	2,848
70		All homogeneous branches and private households.....	4,827	4,792	4,770	4,701	4,310	4,192

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.8: Waste water directly discharged with treatment
mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	-	-	-	-	-	-
2	01	Products of agriculture, hunting and related services.....	-	-	-	-	-	-
3	02	Products of forestry, logging and related services.....	-	-	-	-	-	-
4	03	Fish and other fishing products; aquaculture products.....	-	-	-	-	-	-
5	B	Mining and quarrying.....	42	43	55	38	24	33
6	05	Coal and lignite.....	30	28	31	9	4	2
7	06	Crude petroleum and natural gas.....	0	0	-	0	-	2
8	07-09	Metal ores, other mining and quarrying products.....	12	15	23	29	20	29
9	C	Manufactured products.....	945	852	818	740	699	658
10	10-12	Food products, beverages, tobacco products.....	60	58	58	65	62	64
11	13-15	Textiles, wearing apparel, leather and related products.....	4	4	3	3	3	3
12	16	Wood and products of wood and cork, except furniture.....	0	0	0	2	0	0
13	17	Paper and paper products.....	236	223	243	234	224	204
14	18	Printing and recording services.....	-	-	-	0	-	-
15	19	Coke and refined petroleum products.....	37	37	28	31	32	30
16	19.1	Coke oven products.....	-	-	-	-	-	-
17	19.2	Refined petroleum products.....	-	-	-	-	-	-
18	20	Chemicals and chemical products 3.....	510	431	393	310	282	264
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	-	-	-	-	8	8
20	22	Rubber and plastic products.....	3	3	1	0	1	1
21	23	Other non-metallic mineral products.....	7	8	5	5	6	3
22	23.1	Glass and glass products.....	-	-	-	-	-	-
23	23.2-9	Refractory products, cut, shaped and finished stone.....	-	-	-	-	-	-
24	24	Basic metals.....	75	75	74	74	68	70
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	-	-	-	-	-	-
26	24.4	Basic precious and other non-ferrous metals.....	-	-	-	-	-	-
27	24.5	Castings services of metals.....	-	-	-	-	-	-
28	25	Fabricated metal products, except machinery and equipment.....	2	1	2	4	3	1
29	26	Computer, electronic and optical products.....	1	1	1	1	1	0
30	27	Electrical equipment.....	1	1	0	1	1	2
31	28	Machinery and equipment n.e.c.....	1	1	1	1	1	0
32	29	Motor vehicles, trailers and semi-trailers.....	8	9	8	9	7	8
33	30	Other transport equipment.....	0	0	0	0	0	0
34	31-32	Furniture, other manufactured goods.....	0	0	0	0	0	0
35	33	Repair and installation services of machinery and equipment.....	-	-	-	0	1	0
36	D (35)	Electricity, gas, steam and air conditioning.....	-	-	41	146	141	172
37	35.1/3	Electricity, transmission and distribution services, steam.....	-	-	-	-	-	-
38	35.2	Manufactured gas.....	-	-	-	-	-	-
39	E	Water supply; sewerage, waste management and remediation services.....	-	-	-	-	-	5
40	36	Natural water; water treatment and supply services.....	-	-	-	-	-	5
41	37-39	Sewerage services; waste collection and materials recovery services.....	-	-	-	-	-	-
42	37	Sewerage services, sewerage sludge.....	-	-	-	-	-	-
43	38-39	Waste collection, treatment and disposal services.....	-	-	-	-	-	-
44	F	Constructions and construction works.....	-	-	-	-	-	-
45	41-42	Building and building construction works.....	-	-	-	-	-	-
46	43	Specialised construction works.....	-	-	-	-	-	-
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	-	-	-	-	-	-
48	45	Wholesale and retail trade and repair services of motor vehicles.....	-	-	-	-	-	-
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	-	-	-	-	-	-
50	47	Retail trade services; except of motor vehicles and motorcycles.....	-	-	-	-	-	-
51	H	Transportation and storage services.....	-	-	-	-	-	-
52	49.1-2	Passenger rail transport services, freight rail transport services.....	-	-	-	-	-	-
53	49.3-5	Other passenger land transport services, transport services via pipeline...	-	-	-	-	-	-
54	50	Water transport services.....	-	-	-	-	-	-
55	51	Air transport services.....	-	-	-	-	-	-
56	52	Warehousing and support services for transportation.....	-	-	-	-	-	-
57	53	Postal and courier services.....	-	-	-	-	-	-
58	I	Accommodation and food services.....	-	-	-	-	-	-
59	J	Information and communication services.....	-	-	-	-	-	-
60	K	Financial and insurance services.....	-	-	-	-	-	-
61	L	Real estate services.....	-	-	-	-	-	-
62	M	Professional, scientific and technical services.....	-	-	-	-	-	-
63	N	Administrative and support services.....	-	-	-	-	-	-
64	O	Public administration and defence services.....	-	-	-	-	-	-
65	P	Education services.....	-	-	-	-	-	-
66	Q	Human health and social work services.....	-	-	-	-	-	-
67	R-T	Other services.....	-	-	-	-	-	-
68		All homogeneous branches.....	987	895	913	924	864	868
69		Private households.....	205	180	186	203	202	219
70		All homogeneous branches and private households.....	1,192	1,075	1,099	1,127	1,066	1,087

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.9: Waste water directly discharged without treatment
mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	.	.	.	.	.	.
2	01	Products of agriculture, hunting and related services.....	.	.	.	.	.	.
3	02	Products of forestry, logging and related services.....	.	.	.	.	.	.
4	03	Fish and other fishing products; aquaculture products.....	.	.	.	.	.	.
5	B	Mining and quarrying.....	1,420	1,424	1,615	1,620	1,503	1,408
6	05	Coal and lignite.....	1,066	988	1,263	1,267	1,198	1,076
7	06	Crude petroleum and natural gas.....	2	2	2	1	2	0
8	07-09	Metal ores, other mining and quarrying products.....	352	434	350	351	302	332
9	C	Manufactured products.....	3,833	3,377	3,700	3,460	3,266	2,696
10	10-12	Food products, beverages, tobacco products.....	174	161	163	148	153	122
11	13-15	Textiles, wearing apparel, leather and related products.....	7	2	2	2	1	0
12	16	Wood and products of wood and cork, except furniture.....	9	6	4	2	2	1
13	17	Paper and paper products.....	15	57	63	94	111	148
14	18	Printing and recording services.....	5	5	6	6	3	2
15	19	Coke and refined petroleum products.....	91	62	105	97	101	43
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	2,832	2,484	2,744	2,464	2,179	1,851
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	25	21
20	22	Rubber and plastic products.....	70	62	56	42	41	37
21	23	Other non-metallic mineral products.....	99	95	109	100	107	105
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	392	302	288	339	336	247
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	20	18	20	18	15	11
29	26	Computer, electronic and optical products.....	46	51	48	49	29	24
30	27	Electrical equipment.....	12	11	8	12	8	6
31	28	Machinery and equipment n.e.c.....	22	25	48	39	29	21
32	29	Motor vehicles, trailers and semi-trailers.....	27	25	24	28	76	37
33	30	Other transport equipment.....	8	9	8	17	14	9
34	31-32	Furniture, other manufactured goods.....	2	2	2	2	2	2
35	33	Repair and installation services of machinery and equipment.....	0	0	0	0	33	9
36	D (35)	Electricity, gas, steam and air conditioning.....	26,083	25,628	22,808	19,565	20,597	13,726
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	.	.	.	.	.	34
40	36	Natural water; water treatment and supply services.....	.	.	.	.	.	34
41	37-39	Sewerage services; waste collection and materials recovery services.....	.	.	.	.	.	.
42	37	Sewerage services, sewerage sludge.....	.	.	.	.	.	.
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	.	.
44	F	Constructions and construction works.....	.	.	.	.	.	.
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	.	.	.	.	.	.
48	45	Wholesale and retail trade and repair services of motor vehicles.....	.	.	.	.	.	.
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
50	47	Retail trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
51	H	Transportation and storage services.....	.	.	.	.	.	.
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	.	.
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	.	.
54	50	Water transport services.....	.	.	.	.	.	.
55	51	Air transport services.....	.	.	.	.	.	.
56	52	Warehousing and support services for transportation.....	.	.	.	.	.	.
57	53	Postal and courier services.....	.	.	.	.	.	.
58	I	Accommodation and food services.....	.	.	.	.	.	.
59	J	Information and communication services.....	.	.	.	.	.	.
60	K	Financial and insurance services.....	.	.	.	.	.	.
61	L	Real estate services.....	.	.	.	.	.	.
62	M	Professional, scientific and technical services.....	.	.	.	.	.	.
63	N	Administrative and support services.....	.	.	.	.	.	.
64	O	Public administration and defence services.....	.	.	.	.	.	.
65	P	Education services.....	.	.	.	.	.	.
66	Q	Human health and social work services.....	.	.	.	.	.	.
67	R-T	Other services.....	.	.	.	.	.	.
68		All homogeneous branches.....	31,336	30,429	28,124	24,645	25,366	17,864
69		Private households.....	.	.	.	.	.	.
70		All homogeneous branches and private households.....	31,336	30,429	28,124	24,645	25,366	17,864

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.10: Evaporation and other losses

mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	166	163	147	124	189	272
2	01	Products of agriculture, hunting and related services.....	166	163	147	123	188	270
3	02	Products of forestry, logging and related services.....	.	.	.	1	0	1
4	03	Fish and other fishing products; aquaculture products.....	.	.	.	0	0	1
5	B	Mining and quarrying.....	56	35	39	49	55	50
6	05	Coal and lignite.....	17	3	12	15	25	20
7	06	Crude petroleum and natural gas.....	1	1	1	0	1	1
8	07-09	Metal ores, other mining and quarrying products.....	38	31	26	34	29	29
9	C	Manufactured products.....	441	463	405	356	382	382
10	10-12	Food products, beverages, tobacco products.....	84	74	49	81	45	28
11	13-15	Textiles, wearing apparel, leather and related products.....	25	9	6	10	16	13
12	16	Wood and products of wood and cork, except furniture.....	11	9	9	8	8	5
13	17	Paper and paper products.....	40	35	32	40	48	58
14	18	Printing and recording services.....	2	4	3	3	3	3
15	19	Coke and refined petroleum products.....	78	89	36	46	57	39
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	68	75	78	7	7	86
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	27	15
20	22	Rubber and plastic products.....	14	15	14	18	14	14
21	23	Other non-metallic mineral products.....	43	42	33	35	45	33
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	30	66	88	80	81	72
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	.	.
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Castings services of metals.....	.	.	.	.	.	.
28	25	Fabricated metal products, except machinery and equipment.....	21	20	12	8	8	6
29	26	Computer, electronic and optical products.....	4	3	3	4	4	2
30	27	Electrical equipment.....	3	3	2	6	1	2
31	28	Machinery and equipment n.e.c.....	5	6	28	1	6	4
32	29	Motor vehicles, trailers and semi-trailers.....	12	12	8	5	4	0
33	30	Other transport equipment.....	0	0	1	1	1	1
34	31-32	Furniture, other manufactured goods.....	1	1	2	1	2	2
35	33	Repair and installation services of machinery and equipment.....	0	0	0	0	7	0
36	D (35)	Electricity, gas, steam and air conditioning.....	940	833	918	1,131	997	281
37	35.1/3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	1	1	1	1	4	1
40	36	Natural water; water treatment and supply services.....	.	.	.	.	.	.
41	37-39	Sewerage services; waste collection and materials recovery services.....	1	1	1	1	4	1
42	37	Sewerage services, sewerage sludge.....	1	1	1	1	2	-0
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	1	1
44	F	Constructions and construction works.....	1	1	1	1	1	1
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	4	4	4	4	4	4
48	45	Wholesale and retail trade and repair services of motor vehicles.....	2	2	2	3	2	3
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	0	0	0	0	0	1
50	47	Retail trade services; except of motor vehicles and motorcycles.....	1	1	1	1	1	1
51	H	Transportation and storage services.....	6	7	3	4	4	4
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	.	.
53	49.3-5	Other passenger land transport services, transport services via pipeline...	.	.	.	.	2	2
54	50	Water transport services.....	1	1	1	1	1	1
55	51	Air transport services.....	2	3	0	1	0	1
56	52	Warehousing and support services for transportation.....	0	0	0	0	0	0
57	53	Postal and courier services.....	0	0	0	0	0	0
58	I	Accommodation and food services.....	5	5	5	7	9	9
59	J	Information and communication services.....	1	1	1	1	4	4
60	K	Financial and insurance services.....	1	1	1	1	1	1
61	L	Real estate services.....	0	0	0	0	0	0
62	M	Professional, scientific and technical services.....	1	2	1	1	1	1
63	N	Administrative and support services.....	1	1	1	1	1	1
64	O	Public administration and defence services.....	18	13	13	12	12	12
65	P	Education services.....	6	6	6	6	6	7
66	Q	Human health and social work services.....	8	8	7	5	5	6
67	R-T	Other services.....	40	39	40	36	46	39
68		All homogeneous branches.....	1,696	1,583	1,596	1,739	1,720	1,074
69		Private households.....	104	99	98	94	91	90
70		All homogeneous branches and private households.....	1,800	1,682	1,694	1,834	1,811	1,164

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.11: Cooling waste water
mn m³

No.	CPA ¹	Homogeneous branches	2000	2001	2004	2007	2010	2013 ²
1	A	Products of agriculture, forestry and fishing.....	.	.	.	.	.	.
2	01	Products of agriculture, hunting and related services.....	.	.	.	.	.	.
3	02	Products of forestry, logging and related services.....	.	.	.	.	.	.
4	03	Fish and other fishing products; aquaculture products.....	.	.	.	.	.	.
5	B	Mining and quarrying.....	75	89	360	352	258	115
6	05	Coal and lignite.....	59	70	354	346	255	115
7	06	Crude petroleum and natural gas.....	0	0	0	0	0	0
8	07-09	Metal ores, other mining and quarrying products.....	16	19	5	6	3	1
9	C	Manufactured products.....	3,307	2,851	2,861	2,990	2,876	2,406
10	10-12	Food products, beverages, tobacco products.....	160	150	150	139	145	113
11	13-15	Textiles, wearing apparel, leather and related products.....	6	2	2	1	1	0
12	16	Wood and products of wood and cork, except furniture.....	7	4	3	2	2	0
13	17	Paper and paper products.....	13	56	60	89	104	140
14	18	Printing and recording services.....	5	5	6	6	3	2
15	19	Coke and refined petroleum products.....	83	54	100	93	94	31
16	19.1	Coke oven products.....	.	.	.	.	.	.
17	19.2	Refined petroleum products.....	.	.	.	.	.	.
18	20	Chemicals and chemical products 3.....	2,484	2,132	2,118	2,195	2,043	1,732
19	21	Basic pharmaceutical products and pharmaceutical preparations.....	.	.	.	.	25	21
20	22	Rubber and plastic products.....	69	61	55	38	38	35
21	23	Other non-metallic mineral products.....	17	15	19	16	17	14
22	23.1	Glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Refractory products, cut, shaped and finished stone.....	.	.	.	.	.	.
24	24	Basic metals.....	344	251	235	293	293	216
25	24.1-3	Basic iron and steel and ferro-alloys, other products of steel.....	.	.	.	.	0	0
26	24.4	Basic precious and other non-ferrous metals.....	.	.	.	.	0	0
27	24.5	Casting services of metals.....	.	.	.	.	0	0
28	25	Fabricated metal products, except machinery and equipment.....	18	17	16	14	13	10
29	26	Computer, electronic and optical products.....	44	49	46	48	28	22
30	27	Electrical equipment.....	11	10	8	11	8	6
31	28	Machinery and equipment n.e.c.....	15	17	15	15	22	15
32	29	Motor vehicles, trailers and semi-trailers.....	23	21	19	23	19	31
33	30	Other transport equipment.....	6	6	6	5	7	7
34	31-32	Furniture, other manufactured goods.....	2	2	2	2	1	2
35	33	Repair and installation services of machinery and equipment.....	0	0	0	0	13	8
36	D (35)	Electricity, gas, steam and air conditioning.....	26,083	25,628	22,744	19,149	20,127	13,262
37	35.1/.3	Electricity, transmission and distribution services, steam.....	.	.	.	.	.	.
38	35.2	Manufactured gas.....	.	.	.	.	.	.
39	E	Water supply; sewerage, waste management and remediation services.....	.	.	.	.	.	0
40	36	Natural water; water treatment and supply services.....	.	.	.	.	.	0
41	37-39	Sewerage services; waste collection and materials recovery services.....	.	.	.	.	.	.
42	37	Sewerage services, sewerage sludge.....	.	.	.	.	.	.
43	38-39	Waste collection, treatment and disposal services.....	.	.	.	.	.	.
44	F	Constructions and construction works.....	.	.	.	.	.	.
45	41-42	Building and building construction works.....	.	.	.	.	.	.
46	43	Specialised construction works.....	.	.	.	.	.	.
47	G	Wholesale and retail trade services; repair services of motor vehicles.....	.	.	.	.	.	.
48	45	Wholesale and retail trade and repair services of motor vehicles.....	.	.	.	.	.	.
49	46	Wholesale trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
50	47	Retail trade services; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
51	H	Transportation and storage services.....	.	.	.	.	.	.
52	49.1-2	Passenger rail transport services, freight rail transport services.....	.	.	.	.	.	.
53	49.3-5	Other passenger land transport services, transport services via pipeline....	.	.	.	.	.	.
54	50	Water transport services.....	.	.	.	.	.	.
55	51	Air transport services.....	.	.	.	.	.	.
56	52	Warehousing and support services for transportation.....	.	.	.	.	.	.
57	53	Postal and courier services.....	.	.	.	.	.	.
58	I	Accommodation and food services.....	.	.	.	.	.	.
59	J	Information and communication services.....	.	.	.	.	.	.
60	K	Financial and insurance services.....	.	.	.	.	.	.
61	L	Real estate services.....	.	.	.	.	.	.
62	M	Professional, scientific and technical services.....	.	.	.	.	.	.
63	N	Administrative and support services.....	.	.	.	.	.	.
64	O	Public administration and defence services.....	.	.	.	.	.	.
65	P	Education services.....	.	.	.	.	.	.
66	Q	Human health and social work services.....	.	.	.	.	.	.
67	R-T	Other services.....	.	.	.	.	.	.
68		All homogeneous branches.....	29,465	28,568	25,965	22,491	23,261	15,783
69		Private households.....	.	.	.	.	.	.
70		All homogeneous branches and private households.....	29,465	28,568	25,965	22,491	23,261	15,783

1 Statistical classification of products by activity (CPA) of the European Union (2008 edition).

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.12: Waste water discharged into nature

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	196	193	169	145	210	292
2	01	Crop and animal production, hunting and related services.....	196	193	169	143	210	291
3	02	Forestry and logging.....	0	0	0	1	0	1
4	03	Fishing and aquaculture.....	0	0	0	0	0	1
5	B	Mining and quarrying.....	2,257	2,247	2,179	2,187	1,944	1,739
6	05	Mining of coal and lignite.....	1,850	1,762	1,775	1,765	1,585	1,340
7	06	Extraction of crude petroleum and natural gas.....	3	3	4	2	3	3
8	07-09	Mining of metal ores, other mining and quarrying.....	403	482	400	419	356	396
9	C	Manufacturing.....	6,780	6,134	6,274	5,766	5,377	4,927
10	10-12	Manufacture of food products, beverages and tobacco products.....	538	497	443	492	418	406
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	74	57	42	38	38	31
12	16	Manufacture of wood and products of wood and cork, except furniture.....	26	21	16	15	12	10
13	17	Manufacture of paper and paper products.....	593	540	541	528	512	472
14	18	Printing and reproduction of recorded media.....	11	12	12	12	8	8
15	19	Manufacture of coke and refined petroleum products.....	232	221	210	202	215	184
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	3,963	3,488	3,676	3,230	2,818	2,658
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	66	54
20	22	Manufacture of rubber and plastic products.....	112	105	92	73	66	65
21	23	Manufacture of other non-metallic mineral products.....	178	173	176	162	181	163
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	774	734	742	726	721	598
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	54	50	54	46	38	36
29	26	Manufacture of computer, electronic and optical products.....	71	77	77	72	47	45
30	27	Manufacture of electrical equipment.....	22	21	16	25	15	17
31	28	Manufacture of machinery and equipment n.e.c.....	44	49	94	55	47	42
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	68	69	63	62	104	103
33	30	Manufacture of other transport equipment.....	14	15	15	22	17	14
34	31-32	Manufacture of furniture, other manufacturing.....	6	5	6	4	7	8
35	33	Repair and installation of machinery and equipment.....	0	0	0	1	47	14
36	D (35)	Electricity, gas, steam and air conditioning supply.....	25,742	25,247	22,919	20,176	21,026	13,385
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	20,957	13,378
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	69	7
39	E	Water supply; sewerage, waste management and remediation activities.....	5,768	5,907	4,869	5,494	5,601	5,430
40	36	Water collection, treatment and supply.....	686	663	641	612	620	607
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	5,082	5,244	4,228	4,882	4,981	4,823
42	37	Sewerage.....	5,082	5,244	4,228	4,882	4,977	4,822
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	4	1
44	F	Construction.....	49	48	39	37	39	43
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	54	55	54	55	50	57
48	45	Wholesale and retail trade and repair of motor vehicles.....	22	23	24	25	21	26
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	11	10	10	9	10	11
50	47	Retail trade; except of motor vehicles and motorcycles.....	21	21	21	20	19	19
51	H	Transportation and storage.....	39	36	37	37	39	41
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	25	26
54	50	Water transport.....	2	2	2	2	2	2
55	51	Air transport.....	5	5	5	6	6	6
56	52	Warehousing and support activities for transportation.....	3	3	4	4	4	4
57	53	Postal and courier activities.....	3	3	3	3	2	3
58	I	Accommodation and food service activities.....	71	72	71	91	116	115
59	J	Information and communication.....	6	7	8	5	34	36
60	K	Financial and insurance activities.....	9	9	9	11	8	8
61	L	Real estate activities.....	2	2	3	3	3	3
62	M	Professional, scientific and technical activities.....	19	20	15	16	19	19
63	N	Administrative and support service activities.....	15	16	14	15	16	17
64	O	Public administration and defence; compulsory social security.....	48	41	41	32	34	33
65	P	Education.....	85	84	85	85	86	89
66	Q	Human health and social work activities.....	104	104	103	67	68	72
67	R-T	Other service activities.....	134	131	132	128	138	118
68		All industries.....	41,378	40,354	37,022	34,350	34,807	26,424
69		Private households (domestic consumption).....	3,387	3,374	3,365	3,276	3,177	3,158
70		All industries and private households (residents concept).....	44,766	43,727	40,388	37,625	37,984	29,582

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.13: Waste water

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	30	30	22	21	21	20
2	01	Crop and animal production, hunting and related services.....	30	30	22	21	21	20
3	02	Forestry and logging.....	.	.	.	.	.	.
4	03	Fishing and aquaculture.....	.	.	.	.	.	.
5	B	Mining and quarrying.....	2,164	2,176	2,118	2,115	1,871	1,676
6	05	Mining of coal and lignite.....	1,797	1,723	1,741	1,728	1,542	1,307
7	06	Extraction of crude petroleum and natural gas.....	3	2	3	2	2	2
8	07-09	Mining of metal ores, other mining and quarrying.....	365	451	374	385	327	367
9	C	Manufacturing.....	6,307	5,642	5,845	5,391	4,976	4,517
10	10-12	Manufacture of food products, beverages and tobacco products.....	454	423	395	411	373	377
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	49	48	35	28	22	18
12	16	Manufacture of wood and products of wood and cork, except furniture.....	14	12	7	7	4	4
13	17	Manufacture of paper and paper products.....	542	497	501	483	460	413
14	18	Printing and reproduction of recorded media.....	9	9	9	8	5	5
15	19	Manufacture of coke and refined petroleum products.....	154	131	173	156	158	142
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	3,887	3,406	3,595	3,220	2,808	2,562
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	40	39
20	22	Manufacture of rubber and plastic products.....	97	89	78	55	52	51
21	23	Manufacture of other non-metallic mineral products.....	135	131	142	127	136	130
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	733	656	642	636	629	518
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	33	30	42	38	30	30
29	26	Manufacture of computer, electronic and optical products.....	67	74	74	67	43	43
30	27	Manufacture of electrical equipment.....	19	18	13	18	13	15
31	28	Manufacture of machinery and equipment n.e.c.....	39	43	66	54	41	37
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	56	57	55	57	100	101
33	30	Manufacture of other transport equipment.....	14	15	14	21	16	13
34	31-32	Manufacture of furniture, other manufacturing.....	5	4	4	3	5	7
35	33	Repair and installation of machinery and equipment.....	0	0	0	1	40	13
36	D (35)	Electricity, gas, steam and air conditioning supply.....	24,870	24,479	22,048	19,087	20,065	13,145
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	20,021	13,140
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	45	5
39	E	Water supply; sewerage, waste management and remediation activities.....	156	157	166	174	165	154
40	36	Water collection, treatment and supply.....	133	133	145	150	145	136
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	23	23	21	24	20	18
42	37	Sewerage.....	23	23	21	24	18	18
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	2	0
44	F	Construction.....	48	47	38	37	38	42
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	50	51	51	51	47	53
48	45	Wholesale and retail trade and repair of motor vehicles.....	20	21	21	23	19	23
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	10	10	9	9	9	11
50	47	Retail trade; except of motor vehicles and motorcycles.....	20	20	20	19	18	19
51	H	Transportation and storage.....	33	29	33	33	35	37
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	0	0
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	23	24
54	50	Water transport.....	1	1	1	1	1	1
55	51	Air transport.....	3	1	5	5	6	6
56	52	Warehousing and support activities for transportation.....	3	3	3	4	3	4
57	53	Postal and courier activities.....	3	3	3	3	2	3
58	I	Accommodation and food service activities.....	65	67	66	84	107	106
59	J	Information and communication.....	6	6	7	5	31	32
60	K	Financial and insurance activities.....	8	8	8	10	8	8
61	L	Real estate activities.....	2	2	3	3	2	3
62	M	Professional, scientific and technical activities.....	18	18	14	15	18	18
63	N	Administrative and support service activities.....	14	15	14	14	15	16
64	O	Public administration and defence; compulsory social security.....	30	28	27	20	21	21
65	P	Education.....	79	78	79	79	80	82
66	Q	Human health and social work activities.....	96	96	96	62	63	67
67	R-T	Other service activities.....	94	93	92	92	92	80
68		All industries.....	34,072	33,022	30,725	27,292	27,655	20,075
69		Private households (domestic consumption).....	3,284	3,275	3,267	3,182	3,086	3,068
70		All industries and private households (residents concept).....	37,356	36,296	33,992	30,473	30,741	23,143

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 7.14: Cooling waste water

mn m³

No.	NACE rev.2 Code ¹	Industries	2000	2001	2004	2007	2010	2013 ²
1	A	Agriculture, forestry and fishing.....	.	.	.	.	.	.
2	01	Crop and animal production, hunting and related services.....	.	.	.	.	.	.
3	02	Forestry and logging.....	.	.	.	.	.	.
4	03	Fishing and aquaculture.....	.	.	.	.	.	.
5	B	Mining and quarrying.....	766	790	781	789	594	346
6	05	Mining of coal and lignite.....	751	771	776	782	591	342
7	06	Extraction of crude petroleum and natural gas.....	0	0	0	1	0	0
8	07-09	Mining of metal ores, other mining and quarrying.....	16	19	5	6	4	4
9	C	Manufacturing.....	3,916	3,391	3,325	3,342	3,228	2,944
10	10-12	Manufacture of food products, beverages and tobacco products.....	165	154	153	140	146	142
11	13-15	Manufacture of textiles, wearing apparel, leather and related products.....	7	2	2	2	1	1
12	16	Manufacture of wood and products of wood and cork, except furniture.....	7	6	3	2	2	2
13	17	Manufacture of paper and paper products.....	241	213	199	179	182	157
14	18	Printing and reproduction of recorded media.....	5	5	6	6	3	3
15	19	Manufacture of coke and refined petroleum products.....	96	73	116	103	105	94
16	19.1	Manufacture of coke oven products.....	.	.	.	.	.	.
17	19.2	Manufacture of refined petroleum products.....	.	.	.	.	.	.
18	20	Manufacture of chemicals and chemical products 3).....	2,629	2,249	2,186	2,250	2,101	1,922
19	21	Manufacture of basic pharmaceutical products.....	.	.	.	.	26	24
20	22	Manufacture of rubber and plastic products.....	70	64	57	39	39	39
21	23	Manufacture of other non-metallic mineral products.....	17	16	20	16	17	15
22	23.1	Manufacture of glass and glass products.....	.	.	.	.	.	.
23	23.2-9	Manufacture of refractory products, cutting, finishing of stone.....	.	.	.	.	.	.
24	24	Manufacture of basic metals.....	558	485	469	486	494	390
25	24.1-3	Iron and steel.....	.	.	.	.	.	.
26	24.4	Manufacture of basic precious and non-ferrous metals.....	.	.	.	.	.	.
27	24.5	Casting of metals.....	.	.	.	.	.	.
28	25	Manufacture of fabricated metal products, except machinery.....	19	18	18	15	14	12
29	26	Manufacture of computer, electronic and optical products.....	44	49	46	48	28	26
30	27	Manufacture of electrical equipment.....	11	10	8	11	8	7
31	28	Manufacture of machinery and equipment n.e.c.....	15	17	15	15	22	19
32	29	Manufacture of motor vehicles, trailers and semi-trailers.....	23	21	19	23	19	71
33	30	Manufacture of other transport equipment.....	6	6	6	5	7	8
34	31-32	Manufacture of furniture, other manufacturing.....	2	2	2	2	1	2
35	33	Repair and installation of machinery and equipment.....	.	.	.	0	14	10
36	D (35)	Electricity, gas, steam and air conditioning supply.....	24,782	24,387	21,859	18,360	19,439	12,494
37	35.1/.3	Electric power generation, transmission and distribution, steam.....	.	.	.	.	19,438	12,492
38	35.2	Manufacture of gas; distribution of gaseous fuels through mains.....	.	.	.	.	1	2
39	E	Water supply; sewerage, waste management and remediation activities.....	.	.	.	.	.	0
40	36	Water collection, treatment and supply.....	.	.	.	.	.	0
41	37-39	Sewerage, waste collection, treatment and disposal activities.....	.	.	.	.	.	.
42	37	Sewerage.....	.	.	.	.	.	.
43	38-39	Waste collection, treatment and disposal activities.....	.	.	.	.	.	.
44	F	Construction.....	.	.	.	.	.	.
45	41-42	Construction of buildings, civil engineering.....	.	.	.	.	.	.
46	43	Specialised construction activities.....	.	.	.	.	.	.
47	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	.	.	.	.	.	.
48	45	Wholesale and retail trade and repair of motor vehicles.....	.	.	.	.	.	.
49	46	Wholesale trade; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
50	47	Retail trade; except of motor vehicles and motorcycles.....	.	.	.	.	.	.
51	H	Transportation and storage.....	.	.	.	.	.	.
52	49.1-2	Passenger rail transport, interurban, freight rail transport.....	.	.	.	.	.	.
53	49.3-5	Other passenger land transport, transport via pipeline.....	.	.	.	.	.	.
54	50	Water transport.....	.	.	.	.	.	.
55	51	Air transport.....	.	.	.	.	.	.
56	52	Warehousing and support activities for transportation.....	.	.	.	.	.	.
57	53	Postal and courier activities.....	.	.	.	.	.	.
58	I	Accommodation and food service activities.....	.	.	.	.	.	.
59	J	Information and communication.....	.	.	.	.	.	.
60	K	Financial and insurance activities.....	.	.	.	.	.	.
61	L	Real estate activities.....	.	.	.	.	.	.
62	M	Professional, scientific and technical activities.....	.	.	.	.	.	.
63	N	Administrative and support service activities.....	.	.	.	.	.	.
64	O	Public administration and defence; compulsory social security.....	.	.	.	.	.	.
65	P	Education.....	.	.	.	.	.	.
66	Q	Human health and social work activities.....	.	.	.	.	.	.
67	R-T	Other service activities.....	.	.	.	.	.	.
68		All industries.....	29,465	28,568	25,965	22,491	23,261	15,783
69		Private households (domestic consumption).....	.	.	.	.	.	.
70		All industries and private households (residents concept).....	29,465	28,568	25,965	22,491	23,261	15,783

1 Classification of economic activities, 2008 edition.

2 Preliminary results.

3 Until 2007 including basic pharmaceutical products and pharmaceutical preparations.

Table 8.1: Amount of waste*

1,000 tonnes

No.	Specification	2000	2001	2002 ¹	2003	2004
1	Municipal waste, total.....	50,132	49,397	52,772	49,622	48,434
2	hazardous waste.....	47	26	240	274	290
3	non-hazardous waste.....	50,085	49,371	52,532	49,348	48,144
4	Typical household municipal waste 2.....	37,667	36,285	46,660	43,931	43,149
5	hazardous waste.....	47	26	240	263	271
6	non-hazardous waste.....	37,620	36,259	46,420	43,668	42,878
7	Domestic and similar waste, collected by public waste collection.....	18,030	16,466	17,090	15,824	15,558
8	Bulky waste.....	2,568	2,676	2,933	2,608	2,589
9	Waste from the bio-bin.....	3,531	3,753	3,465	3,447	3,661
10	Garden and park waste, biodegradable.....	.	.	4,163	3,845	4,172
11	Other separately collected fractions of waste.....	13,491	13,364	18,769	17,944	17,170
12	Glass.....	3,443	3,152	3,106	3,289	3,100
13	Paper, paperboard, cardboard.....	7,263	7,550	8,590	8,419	7,740
14	Mixed packaging / recyclables.....	1,894	1,870	5,654	4,929	4,734
15	Discarded electrical and electronic equipment.....	476	458	105	104	263
16	Other (composite materials, metals, textiles, etc.).....	414	334	1,313	1,204	1,333
17	Other municipal waste 2.....	12,465	13,112	6,112	5,691	5,284
18	hazardous waste.....	0	0	0	12	19
19	non-hazardous waste.....	12,465	13,112	6,112	5,679	5,265
20	Commercial waste similar to domestic waste, collected by non-public waste collection.....	5,255	6,638	4,308	4,122	3,443
21	Street cleaning residues, garden and park waste (soil and stones) 3.....	5,060	4,933	943	879	1,026
22	Biodegradable kitchen and canteen waste.....	.	.	485	354	578
23	Market waste.....	71	71	76	83	96
24	Fluorescent tubes and other mercury-containing waste.....	.	.	0	12	13
25	Other separately collected fractions.....	2,079	1,471	299	240	128
26	Waste resulting from mining and treatment of mineral resources	48,187	49,187	45,461	46,689	50,452
27	hazardous waste.....	.	.	.	.	.
28	non-hazardous waste.....	.	.	.	.	.
29	Construction and demolition waste.....	260,687	251,322	240,812	223,389	187,478
30	hazardous waste.....	6,987	7,662	9,949	9,643	8,919
31	non-hazardous waste.....	253,700	243,660	230,863	213,746	178,559
32	Soil (incl. Excavated soil from contaminated sites), stones and dredging spoil.....	.	.	148,252	135,804	108,118
33	hazardous waste.....	.	.	6,274	5,537	5,920
34	non-hazardous waste.....	161,349	149,602	141,978	130,267	102,198
35	Concrete, bricks, tiles and ceramics.....	.	.	.	.	.
36	Bituminous mixtures, coal tar and tarred products.....	.	.	.	.	.
37	Other construction and demolition wastes.....	.	.	.	.	.
38	Other wastes (in particular of manufacturing and other economic activities).....	47,657	45,314	42,218	46,712	53,005
39	hazardous waste.....	7,903	8,141	9,448	9,598	9,192
40	non-hazardous waste.....	39,754	37,173	32,770	37,114	43,813
41	Net amount, together.....	406,663	395,222	381,262	366,412	339,368
42	hazardous waste.....	14,937	15,830	19,636	19,515	18,401
43	non-hazardous waste.....	391,726	379,392	361,626	346,897	320,967
44	Waste of waste treatment plants 4 (secondary waste).....	.	.	.	.	.
45	hazardous waste.....	.	.	.	.	.
46	non-hazardous waste.....	.	.	.	.	.
47	Gross amount, total.....	.	.	.	.	.
48	hazardous waste.....	.	.	.	.	.
49	non-hazardous waste.....	.	.	.	.	.

* Until 2005 calculation based on net principle. Since 2006 calculation according to the gross principle; please see explanation concerning the waste balance.

1 Changeover to more recent catalogue of waste types (LAGA until 1998, EWC from 1999, European List of Wastes from 2002).

2 Until 2003 the following allocations of fractions only for non-hazardous waste.

3 Until 2001 including biodegradable garden and park waste. From 2002, non-biodegradable garden and park waste have been allocated to order municipal waste while biodegradable garden and park waste have been classified under domestic waste.

4 Without waste of waste water treatment plants (ELW 1908) and secondary waste used as raw materials / products that leave the process of waste management. Since 2009 additionally without wastes from the preparation of water intended for human consumption or water for industrial use (ELW 1909), wastes from soil and groundwater remediation (ELW 1913).

Table 8.1: Amount of waste*
1,000 tonnes

2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	No.
46,555	46,426	47,887	48,367	48,466	49,237	50,237	49,759	49,570	51,102	51,625	1
337	393	391	464	546	572	512	571	557	575	565	2
46,218	46,033	47,496	47,903	47,921	48,665	49,725	49,188	49,013	50,527	51,060	3
41,412	40,827	41,750	43,215	43,230	43,556	44,045	44,188	43,942	45,553	45,930	4
320	356	372	442	516	481	441	495	490	509	496	5
41,092	40,472	41,378	42,772	42,715	43,074	43,604	43,694	43,452	45,045	45,433	6
13,912	14,260	13,753	14,236	14,558	14,358	14,027	13,989	14,028	14,179	14,147	7
2,167	2,247	2,335	2,458	2,441	2,442	2,428	2,398	2,486	2,475	2,495	8
3,776	3,757	3,743	3,897	3,882	3,764	4,016	3,944	4,050	4,134	4,232	9
3,924	4,044	4,509	4,421	4,607	4,964	5,045	5,305	5,049	5,785	5,771	10
17,633	16,520	17,410	18,204	17,742	18,027	18,528	18,553	18,329	18,980	19,289	11
3,572	1,929	2,233	2,480	2,442	2,523	2,595	2,392	2,516	2,432	2,553	12
7,895	8,080	8,121	8,528	8,088	8,000	8,131	8,098	7,609	7,972	8,103	13
4,601	4,532	4,975	4,885	5,000	5,141	5,367	5,462	5,541	5,707	5,952	14
291	409	396	469	605	586	591	623	597	598	591	15
1,274	1,570	1,685	1,842	1,607	1,777	1,843	1,978	2,067	2,271	2,087	16
5,143	5,598	6,138	5,152	5,236	5,681	6,193	5,571	5,627	5,549	5,695	17
17	37	20	21	30	90	71	77	67	67	68	18
5,126	5,561	6,118	5,131	5,206	5,590	6,122	5,494	5,560	5,482	5,627	19
3,730	3,821	4,313	3,621	3,494	3,797	4,244	3,836	3,840	3,585	3,506	20
728	967	973	796	846	894	979	789	899	918	986	21
476	603	668	535	694	726	728	688	634	767	928	22
88	76	72	84	64	63	53	70	72	73	60	23
13	14	13	14	14	18	14	14	7	8	11	24
109	118	100	103	124	183	175	173	176	198	205	25
52,308	41,954	42,891	39,295	27,541	36,883	34,667	30,318	29,250	30,172	31,426	26
.	.	.	.	134	63	25	106	102	42	37	27
.	.	.	.	27,407	36,820	34,643	30,212	29,148	30,130	31,389	28
184,919	197,735	201,842	200,517	195,021	193,318	199,479	199,303	202,735	209,538	208,997	29
8,744	9,013	8,731	8,489	7,691	6,758	7,412	7,327	7,529	7,507	7,237	30
176,175	188,722	193,111	192,028	187,330	186,560	192,067	191,976	195,206	202,031	201,759	31
106,830	110,447	112,700	111,216	107,917	108,360	112,387	112,559	115,509	121,105	120,978	32
5,339	4,440	4,100	3,901	3,352	2,643	2,829	2,754	3,000	2,579	2,198	33
101,491	106,007	108,600	107,315	104,565	105,716	109,558	109,805	112,509	118,527	118,780	34
.	58,247	57,982	59,163	57,490	53,743	54,359	52,250	52,203	55,306	55,286	35
.	16,724	16,890	16,073	15,977	16,450	16,848	18,088	18,277	16,456	16,399	36
.	12,318	14,270	14,066	13,637	14,765	15,885	16,406	16,746	16,670	16,333	37
48,094	54,785	58,491	56,423	51,265	53,255	58,390	54,218	57,123	59,508	59,218	38
9,376	9,123	9,653	9,641	8,945	9,047	9,044	8,938	9,029	8,985	9,363	39
38,718	45,662	48,838	46,782	42,320	44,209	49,346	45,280	48,094	50,523	49,855	40
331,876	340,899	351,111	344,602	322,293	332,693	342,774	333,598	338,678	350,319	351,266	41
18,457	18,529	18,775	18,594	17,316	16,440	16,993	16,942	17,217	17,109	17,202	42
313,419	322,370	332,336	326,008	304,978	316,254	325,782	316,656	321,460	333,210	334,063	43
.	32,006	35,835	38,216	37,094	40,318	43,916	46,978	47,052	50,633	50,964	44
.	4,678	4,981	5,190	4,966	5,388	6,170	6,743	6,315	6,384	6,484	45
.	27,329	30,853	33,026	32,127	34,929	37,746	40,235	40,737	44,249	44,480	46
.	372,906	386,946	382,818	359,387	373,011	386,690	380,576	385,729	400,953	402,229	47
.	23,207	23,756	23,784	22,282	21,828	23,163	23,686	23,532	23,493	23,686	48
.	349,699	363,189	359,034	337,105	351,183	363,528	356,891	362,197	377,459	378,543	49

Table 9.1: Environmental protection expenditure*

EUR mn

No.	Specification	2010	2011	2012	2013	2014
1	Environmental protection expenditure.....	49,939	53,080	54,139	56,211	58,248
2	General government.....	8,576	9,224	8,491	8,614	8,816
3	Corporations.....	28,548	30,887	32,649	34,477	36,236
4	Households.....	12,815	12,969	12,999	13,120	13,196
5	Gross fixed capital formation.....	10,279	11,415	10,599	10,338	10,574
6	General government.....	2,726	3,434	2,578	2,698	2,716
7	Corporations.....	7,553	7,981	8,021	7,640	7,858
8	Current environmental protection expenditure 1.....	39,660	41,665	43,540	45,873	47,674
9	General government.....	5,850	5,790	5,913	5,916	6,100
10	Corporations.....	20,995	22,906	24,628	26,837	28,378
11	Households.....	12,815	12,969	12,999	13,120	13,196

* Preliminary and partly estimated. Without environmental protection transfers (received/paid), non-profit institutions serving households.

1 Contribution margin for investments might be included.

Table 9.2: Environmental protection expenditure per domain *

No.	Environmental domain ¹	2010	2011	2012	2013	2014
		EUR mn				
1	Wastewater management.....	24,729	25,754	26,647	27,017	28,678
2	Waste management.....	15,691	16,505	17,203	18,613	18,863
3	Elimination of environmental pollution 2.....	5,944	7,054	6,246	6,451	6,460
4	Protection of biodiversity and landscapes.....	1,043	1,146	1,212	1,229	1,285
5	Research and development.....	1,345	1,392	1,575	1,599	1,620
6	Other environmental protection activities 3.....	1,187	1,229	1,256	1,302	1,342
7	Total.....	49,939	53,080	54,139	56,211	58,248
8	<i>Share of gross domestic product (%).....</i>	<i>1.9</i>	<i>2.0</i>	<i>2.0</i>	<i>2.0</i>	<i>2.0</i>
		Share of environmental domains in total (%)				
9	Wastewater management.....	49.5	48.5	49.2	48.1	49.2
10	Waste management.....	31.4	31.1	31.8	33.1	32.4
11	Elimination of environmental pollution 2.....	11.9	13.3	11.5	11.5	11.1
12	Protection of biodiversity and landscapes.....	2.1	2.2	2.2	2.2	2.2
13	Research and development.....	2.7	2.6	2.9	2.8	2.8
14	Other environmental protection activities 3.....	2.4	2.3	2.3	2.3	2.3
15	Total.....	100	100	100	100	100

* Preliminary and partly estimated. Without environmental protection transfers (received/paid), non-profit institutions serving households.

1 Allocation according to CEPA.

2 Including protection of ambient air and climate, protection of soil, groundwater and surface water, noise and vibration abatement, protection against radiation.

3 Includes for example environmental administration of the federal states.

Table 9.3: Revenue from environment-related taxes and total tax revenue

EUR mn

No.	Year	Cash tax revenue of public budgets								
		total ¹	including: environmental-related taxes							
			together	mineral oil/ energy tax	motor vehicle tax	electricity tax	air transportation tax	emission permits	Contribution to German National Petroleum Stockpiling Agency	nuclear fuel tax ²
1	1995	416,337	40,236	33,177	7,059	-	-	-	-	-
2	1996	408,968	41,923	34,896	7,027	-	-	-	-	-
3	1997	407,503	41,121	33,749	7,372	-	-	-	-	-
4	1998	425,838	41,848	34,091	7,757	-	-	-	-	-
5	1999	452,998	45,299	36,444	7,039	1,816	-	-	-	-
6	2000	467,177	48,673	37,826	7,015	3,356	-	-	476	-
7	2001	446,170	53,924	40,690	8,376	4,322	-	-	536	-
8	2002	441,628	55,390	42,193	7,592	5,097	-	-	508	-
9	2003	442,167	57,519	43,188	7,336	6,531	-	-	464	-
10	2004	442,761	56,550	41,782	7,739	6,597	-	-	432	-
11	2005	452,079	55,672	40,101	8,673	6,462	-	-	436	-
12	2006	488,444	55,554	39,916	8,937	6,273	-	-	428	-
13	2007	538,243	54,559	38,955	8,898	6,355	-	-	352	-
14	2008	561,182	54,730	39,248	8,842	6,261	-	-	380	-
15	2009	524,000	55,746	39,822	8,201	6,278	-	1,081	364	-
16	2010	530,587	55,227	39,838	8,488	6,171	-	390	340	-
17	2011	573,351	58,502	40,036	8,422	7,247	905	653	316	922
18	2012	600,046	58,058	39,305	8,443	6,973	948	528	284	1,577
19	2013	619,708	57,736	39,364	8,490	7,009	978	321	288	1,285
20	2014	643,617	57,652	39,758	8,501	6,638	990	773	284	708
21	2015	673,261	58,528	39,594	8,805	6,593	1,023	863	280	1,371
22	2016	705,791	58,268	40,091	8,952	6,569	1,074	868	292	422

¹ Prior to deduction of child benefit (children's allowance paid by the government and tax deductible children's allowance).

² This tax was subsequently declared unconstitutional and will be repaid including interest.

Table 9.4: Taxed mineral oil by selected types

No.	Year	Petrol, leaded and unleaded	Diesel fuel ¹	Heating oil	Natural gas ²
		1,000 m ³			mn MWh
1	1995	40,036	30,425	39,208	807
2	1996	40,302	30,733	43,749	889
3	1997	40,616	31,423	41,702	845
4	1998	40,766	32,487	39,351	803
5	1999	40,870	34,018	33,412	762
6	2000	39,045	33,780	30,772	781
7	2001	37,861	34,257	35,550	839
8	2002	36,601	33,843	31,081	817
9	2003	34,872	33,105	30,393	860
10	2004	33,102	33,296	27,401	860
11	2005	30,669	31,788	27,450	895
12	2006	29,597	33,395	30,659	957
13	2007	28,742	34,601	18,480	963
14	2008	27,792	36,026	26,343	815
15	2009	27,238	35,986	23,477	734
16	2010	27,078	38,292	24,565	831
17	2011	26,734	39,485	20,949	795
18	2012	25,517	39,938	22,026	920
19	2013	24,831	40,793	22,830	923
20	2014	24,852	42,132	19,258	801
21	2015	24,556	43,280	19,607	829
22	2016 ³	24,251	44,292	18,980	...

1 And mineral oils which have the same boiling characteristics.

2 From 2007 without gaseous hydrocarbon.

3 Preliminary results.

Table 9.5: Environmental taxes by economic activities

EUR mn

No.	WZ 2008 code ¹	Industries and private households	2014 ²			2015 ³		
			Energy taxes ⁴	Transport taxes ⁵	Total	Energy taxes ⁴	Transport taxes ⁵	Total
1	A	Agriculture, forestry and fishing.....	1,366.53	18.48	1,385.01	1,355.62	.	.
2	01	Crop and animal production, hunting and related services.....	1,305.62	16.64	1,322.26	1,295.20	.	.
3	02	Forestry and logging.....	53.05	1.71	54.76	52.63	.	.
4	03	Fishing and aquaculture.....	7.86	0.13	7.99	7.80	.	.
5	B	Mining and quarrying.....	188.09	6.49	194.58	186.92	.	.
6	C	Manufacturing.....	5,007.45	409.29	5,416.74	4,999.96	.	.
7	10-12	Manufacture of food products, beverages and tobacco products.....	550.63	38.56	589.19	547.02	.	.
8	13-15	Manufacture of textiles, wearing apparel, leather.....	99.27	6.10	105.37	98.47	.	.
9	16	Manufacture of wood and products of wood and cork.....	63.55	5.90	69.45	63.06	.	.
10	17	Manufacture of paper and paper products.....	220.52	9.37	229.90	220.49	.	.
11	18	Printing and reproduction of recorded media.....	51.30	4.42	55.72	50.92	.	.
12	19	Manufacture of coke and refined petroleum products.....	356.80	14.69	371.48	357.94	.	.
13	20	Manufacture of chemicals and chemical products 3).....	872.05	36.72	908.76	871.35	.	.
14	21	Manufacture of basic pharmaceutical products.....	64.28	10.76	75.05	63.83	.	.
15	22	Manufacture of rubber and plastic products.....	278.44	17.85	296.29	276.31	.	.
16	23	Manufacture of other non-metallic mineral products.....	150.72	10.82	161.54	156.42	.	.
17	24	Manufacture of basic metals.....	279.42	21.63	301.05	289.29	.	.
18	25	Manufacture of fabricated metal products.....	106.76	27.45	134.21	106.02	.	.
19	26	Manufacture of computer, electronic and optical products.....	112.98	19.72	132.70	112.08	.	.
20	27	Manufacture of electrical equipment.....	305.56	23.60	329.16	303.13	.	.
21	28	Manufacture of machinery and equipment n.e.c.....	515.89	54.54	570.43	511.78	.	.
22	29	Manufacture of motor vehicles, trailers and semi-trailers.....	694.01	77.27	771.29	688.77	.	.
23	30	Manufacture of other transport equipment.....	58.14	9.42	67.56	57.71	.	.
24	31-32	Manufacture of furniture, other manufacturing.....	140.62	11.35	151.96	139.52	.	.
25	33	Repair and installation of machinery and equipment.....	86.52	9.12	95.64	85.84	.	.
26	D (35)	Electricity, gas, steam and air conditioning supply.....	2,401.18	18.17	2,419.35	2,408.34	.	.
27	E	Water supply; sewerage, waste management and remediation activities.....	352.81	26.71	379.52	350.02	.	.
28	36	Water collection, treatment and supply.....	82.52	3.81	86.33	81.86	.	.
29	37-39	Sewerage, waste collection, treatment and disposal activities.....	270.29	22.90	293.19	268.15	.	.
30	F	Construction.....	1,539.44	144.89	1,684.33	1,527.15	.	.
31	G	Wholesale and retail trade; repair of motor vehicles and motorcycles.....	2,666.27	393.07	3,059.34	2,644.98	.	.
32	45	Wholesale and retail trade and repair of motor vehicles.....	136.56	53.68	190.24	135.46	.	.
33	46	Wholesale trade; except of motor vehicles and motorcycles.....	1,602.32	195.49	1,797.81	1,589.52	.	.
34	47	Retail trade; except of motor vehicles and motorcycles.....	927.40	143.90	1,071.29	919.99	.	.
35	H	Transportation and storage.....	5,038.92	259.18	5,298.10	4,998.71	.	.
36	49	Land transport and transport via pipelines.....	2,304.74	86.34	2,391.08	2,286.34	.	.
37	50	Water transport.....	15.72	18.69	34.41	15.59	.	.
38	51	Air transport.....	4.93	22.24	27.17	4.89	.	.
39	52	Warehousing and support activities for transportation.....	2,371.66	106.59	2,478.25	2,352.74	.	.
40	53	Postal and courier activities.....	341.88	25.31	367.19	339.15	.	.
41	I	Accommodation and food service activities.....	232.83	13.08	245.92	230.97	.	.
42	J	Information and communication.....	367.42	37.56	404.98	364.49	.	.
43	K	Financial and insurance activities.....	211.22	40.52	251.74	209.53	.	.
44	L	Real estate activities.....	104.14	7.60	111.74	103.30	.	.
45	M	Professional, scientific and technical activities.....	435.21	45.87	481.08	431.73	.	.
46	N	Administrative and support service activities.....	445.05	246.94	691.99	441.50	.	.
47	O	Public administration and defence; compulsory social security.....	1,333.16	96.12	1,429.28	1,322.53	.	.
48	P	Education.....	197.52	4.73	202.25	195.95	.	.
49	Q	Human health and social work activities.....	420.66	49.14	469.79	417.33	.	.
50	R-T	Other service activities.....	551.13	589.46	1,140.60	546.73	.	.
51		All industries.....	22,859.03	2,407.30	25,266.33	22,735.77	.	.
52		Private households.....	25,010.22	7,081.70	32,091.92	24,810.55	.	.
53		Non-residents.....	819.12		819.12	779.37	.	.
54		All industries and private households (residents concept).....	48,688.37	9,489.00	58,177.37	48,325.69	9,833.00	58,158.69

1 Classification of economic activities, 2008 edition.

2 Partly revised.

3 Preliminary results.

4 Energy tax, electricity tax, tax on nuclear fuels, tax on emission permits and contribution to German National Petroleum Stockpiling Agency.

5 Motor vehicle tax and air passenger duty.