

Economy and Use of Environmental Resources

Tables on Environmental-Economic Accounting
Part 6: Transport and the environment, Agriculture and the environment, Forest accounting



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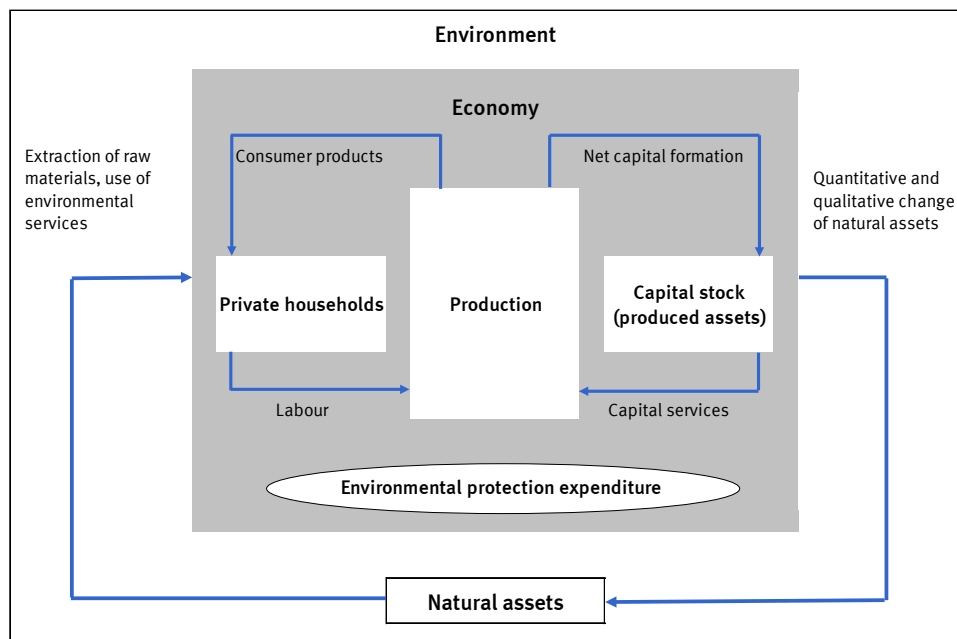
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1 Environmental-Economic Accounting of the Federal Statistical Office

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 in simplified form in the diagram.

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.

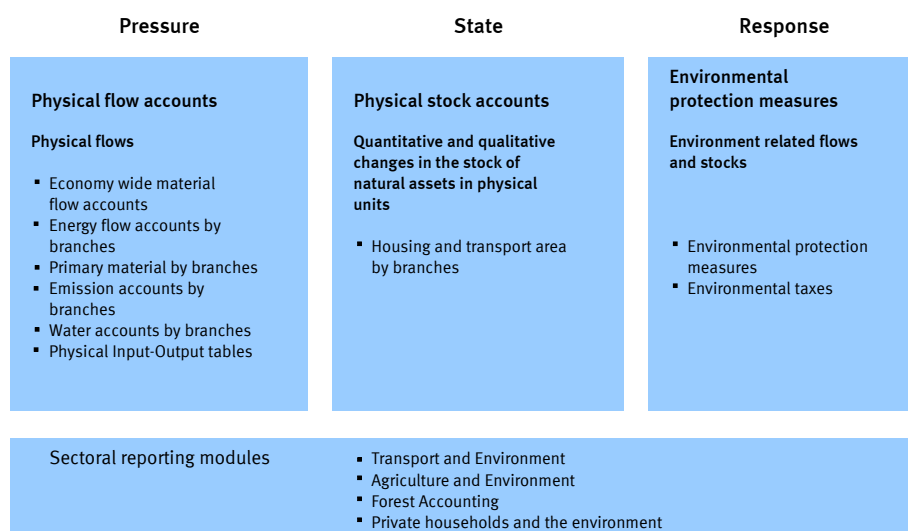
The concept underlying the EEA is to express the status quo and the change in natural assets in units of money, so as to be able to determine what is known as corrected macro-economic aggregates, such as the ecological domestic product. Particularly insofar as such evaluations do not assess the quantitative 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

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.

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

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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

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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

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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	

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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

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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

Introduction

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

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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)
NM VOC	=	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

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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 to 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.

General notes

Transport and the environment

Environmentally relevant data on transport (**table 11.1**) are taken from the publication "Transport in Figures 2014/2015" published by the German Institute of Economic Research (DIW) in Berlin, commissioned by the Federal Ministry of Transport and digital infrastructure (BMV). The calculated intensity indicators result from division of performance of transport (goods transportation and passenger transportation) by Gross Domestic Product at fixed prices. Intensities of transport are also utilised as Sustainable Development Indicators and published in the report of the German Government related to the German Sustainable Development Strategy.

The tables 11.2 to 11.6 contain data related to road transport.

These are based on details on the average and annual mileage covered by road transport and fuel consumption by road transport as a whole, with breakdown by vehicle types and propulsion categories of diesel and Otto engines, published by the German Institute for Economic Research - DIW Berlin. The DIW also works out the average consumption per 100 kilometres of all diesel and Otto engines. At the same time data on the stock of vehicles registered by the Kraftfahrt-Bundesamt (Federal Motor Transport Authority) in terms of vehicle owners and cubic capacity groups are taken into account. Also data provided by the *Kraftfahrt-Bundesamt* on road transportation of goods is considered (**table 11.4.6**). The data from the *Kraftfahrt-Bundesamt* is available in long time series up to 2013. The data from DIW reach up to 2013. These are published annually in the DIW publication "Weekly Report".

The whole data referred to was further processed within the Environmental-Economic Accounting, enabling information on mileages and fuel consumption of both privately used and commercially used vehicles to be determined. The calculations were done separately for Otto and diesel motors. In the case of private cars the results are broken down into six separate cubic capacity classes. Road transport data is shown in time series from 2002 to 2013. The years 1995 to 2001 were not calculated in line with the new classification of homogeneous branches (comparable with the Statistical Classification of Products by Activity [CPA] of the European Union [2008 Edition]). **Table 11.5.1** (Total energy consumption in road transport) is an exception to that rule. In this table, the results for the years 1995 to 2001 were recorded on basis of the 2010 publication in line with the new classification of sectors. Otherwise, results for the years prior 2001 are shown in the 2010 table volume. Classification into homogeneous branches in this chapter does not employ the usual classification into 68 sectors, but is summarised and broken down into 18 sectors and data for private households. Information on vehicle stocks and the vehicle holders published by the Federal Motor Transport Authority (KBA) for the years 2002 to 2008 is classified for 18 owner categories. From 2009 onwards, the KBA changed this to 23 owner categories. This classification is according the above-mentioned Statistical Classification of Products (**table 11.2.1** and **11.2.2**).

The results are presented according the residents concept (national accounts concept). That means i.e. that transport mileage includes the mileage of residents abroad and excludes the mileage of non-residents within the territory (**tables 11.4**). The same applies to the tables for fuel consumption (**tables 11.5**). These include fuel purchased by residents abroad and exclude domestic purchases by non-residents.

Table 11.5.1 contains a transition from the results according the residents concept to the territorial concept of the energy balance (rows 21 to 26).

The tables 11.4 and 11.5 additionally include figures for mileages and fuel consumption of vehicles using bio-diesel and bio-ethanol.

The German Institute for Economic Research (DIW) uses data from the freight transport statistics by the Federal Motor Transport Authority (KBA) as a source for mileages in lorry transport. According to the results of a research project "Evaluation und methodische Weiterentwicklung der Güterverkehrsstatistik" (Evaluation and methodical further development of the freight transport statistics), the mileages are clearly under recorded in the Federal Motor Transport Authority statistics (certain purposes of a trip, such as trips to workshops, etc. are not recorded). However, as these trips also require fuel, a special position "unassigned consumption" is provided by the German Institute for Economic Research for the consumption of diesel fuels in road transport, which contains these (estimated) amounts of consumption. The aim is to archive a calculation of consumption that is consistent with fuel sales.

In the present Environmental-Economic Accounting table volume, this "**unassigned consumption**" is allocated to lorries. The supplement occurs in the production sector "Transportation and storage services".

The figures for carbon dioxide emissions (table 11.6) are calculated on basis of the figures on fuel consumption by means of emissions factors provided by the Federal Environment Agency for petrol, diesel-oil and biodiesel fuels. Emissions of vehicles running with natural gas or liquified petroleum gas are also presented. Additional tables for CO₂ emissions by road transport are presented in part 3, chapter 4 "Air emissions" of the EEA-Table-Report. Here the most important data source is the TREMOD-data base on (Transport Emissions model), which has been established on behalf of UBA for Kyoto protocol reporting.

Agriculture and the environment

Methodological notes on the calculation of land use of food products of animal origin

Domestic livestock farming needs big areas on the domestic territory and abroad for the cultivation of fodder crops. Besides the domestic land use linked to the cultivation of fodder crops, land use abroad also originates from the import of fodder, of food products and raw materials for the food and fodder industry. The tables in this report show results of total land use of domestic livestock farming and land use linked to domestic consumption of food products of origin for the period 2000 to 2013¹.

Calculation method

The calculation of land use is done in several steps using a variety of data sources. In the first step the volume of fodder of domestic cattle is determined. The calculation is based on data on domestic production of fodder and import and export data. Data on the import and export of fodder are available from the foreign trade statistics of the Federal Statistical Office. Land use related to fodder of domestic origin is estimated by using figures on yields per hectare from the agricultural statistics (harvest statistics). For the calculation of land use of imported fodder data from the FAO database² on the cultivation and yield of agricultural commodities are used. In a second step total supply of fodder is allocated to the particular type of animals. Then domestic land use and land use abroad by type of animal is calculated by using special land use coefficients for the domestic territory and countries from abroad.

In order to allow statements on land use of total consumption of food products of animal origin and thereof of particular products an additional calculation is done. Whereas the former calculation concentrates on land use related to domestic animal farming this calculation focuses on land use linked with the production of food of animal origin in a certain period. Thereby fodder consumption and land use for the whole live span of the animals is estimated and related to the volume of food products (meat, sausages, milk, cheese and eggs) produced in a certain reporting year.

The estimated land use coefficients on the level of commodities are also used in the calculation of land use of domestic consumption. Within this calculation land use of imported products (of animal origin) is added to land use of domestic products whereas land use of exports is subtracted. For exports land use coefficients for domestic production are used. For imports from extra-European countries coefficients from other sources are taken, which take into account typical, country specific livestock farming.

1 More detailed results on land use of food products of plant and animal origin for the period 2000 to 2010 were published in a report in August 2013 available at "destatis.de":

www.destatis.de/EN/Publications/Specialized/EnvironmentalEconomicAccounting/Landusefoodproducts.html

2 FAO: Food and Agriculture Organization of the United Nations.

<http://faostat.fao.org/site/567/default.aspx#ancor>

Methodological notes on the calculation of methane and nitrous oxide emissions of food products

Overlook

Methane and nitrous oxide are important greenhouse gases. Methane (CH₄) impacts climate more than 21 times as carbon-dioxide (CO₂) does, nitrous oxide even 310 times. Methane and nitrous oxide originate to a large part in agriculture. More than half of domestic methane emissions are caused by livestock farming (farm manure and fermentation). Looking at the nitrous oxide emissions four fifth of them stem from the cultivation of agricultural soils. The rest of the emissions come from other industries like the energy suppliers.

Methane is caused almost entirely by fermentation processes in the stomachs of cattle and at the degradation of farm manure. Thus the emissions within agriculture can be exclusively allocated to products of animal origin. Nitrous oxide originates particularly at the spreading of farm and mineral manure on agricultural soils. Therefore these emissions are allocated both to food products of plant origin and - because of the cultivation of fodder plants - of animal origin. In addition, nitrous oxide emissions are allocated to other plants which are used for energy generation and in certain industries. These emissions are not looked at in this presentation.

The figures presented in the following tables are different from the common presentation used in the emission inventories. In the inventories there is a focus on the emissions caused on the territory. In this report emissions are looked at from a consumer's point of view. This implies an allocation of emissions caused within agriculture to the consumers of agricultural products - these are either private households or - with regard to exports - "the rest of the world". In addition to the inventory also emissions caused by the production of imported agricultural and food products abroad are taken into account. When deriving the emissions related to domestic consumption of food products, emissions of exports are subtracted from total supply of emissions.

Basic data

Figures for methane and nitrous oxide emissions can be taken from the national emission inventory of the Federal Environmental Agency (UBA). The figures in the inventory are classified according certain source categories. For methane these figures - by type of animal - are assigned to the categories "fermentation" and "farm manure". For nitrous oxide the emission data also are related to livestock farming (category "farm manure"), but also include emission figures linked with the management of agricultural soils.

Besides the figures for Germany also data from the reporting to the United Nations Framework Convention on Climate Change (UNFCCC) are analyzed for the most important countries of origin for imported agricultural and food products - for European (Denmark, France, Ireland, Netherlands, Austria) and other countries (New Zealand, Brasil).

For the allocation of emissions according agricultural categories to food products, data on the production of agricultural commodities and food products of animal origin - meat and milk products - are taken from the production and agricultural statistics. Import and export data for meat and milk products are taken from the foreign trade statistics.

Calculation method

For the allocation of **methane emissions** of livestock farming to animal products emission data on fermentation and on farm manure are taken into account. In a first step emission coefficients for domestic production are calculated. These coefficients are also used for emissions linked with exports. For imports country-specific coefficients for the most important countries of origin are estimated. Because an evaluation for all countries would be too complicated only coefficients for the most relevant countries of origin for imported meat, sausages and milk products are determined. For other countries an average coefficient was calculated on basis of the coefficients for the most important suppliers. The emissions for domestic consumption are compiled by adding emissions for imports to domestic emissions and by subtracting emissions for exports.

When spreading farm or mineral manure to agricultural soils incorporated nitrogen is released as **nitrous oxide emissions**. The domestic emissions are allocated to the agricultural products of plant and animal origin. For the emission Categories "farm manure", "mineral manure" and "input of animal excrements into soils/grazing" a similar procedure to the method used for methane emissions is applied. However for nitrous oxide emission data for certain animal categories are not available. Therefore in a separate calculation the percentage of emissions

related to the production of feed was estimated. This share can be attributed to animal products according figures on the consumption of feed by type of animal.

Nitrous oxide emissions of plant products (excl. feed) for the emission categories "mineral manure", "input of animal excrements in soils/grazing", "harvest residues" and "indirect emissions" were calculated on basis of an allocation key for fertilization with nitrogen and farm manure.

Emission coefficients for domestic production were calculated by dividing emission figures with figures for the production of agricultural commodities. These coefficients were also used for the estimation of emissions for imports and exports. An exception was made for the imported soya. This coefficient was taken from the Ecoinvent database (<http://www.ecoinvent.ch>). As for the methane emissions the emissions for domestic consumption of products of plant origin are compiled by adding emissions for imports to domestic emissions and by subtracting emissions for exports.

Forest accounting

The Forest Accounts in the Environmental-Economic Accounting specifically tackle the forestry and observe it from a variety of perspectives in line with the interest of Environmental-Economic Accounting. The structure of the Forest Accounts is based on the manual on Integrated Environmental and Economic Accounting for Forests - IEEAF (European Commission, 2002)⁴, which was drafted on the basis of the portrayal method at European level. The concept serves the goal of supplementing the economic data on forestry in the Forestry and National Accounts, using ecological and where possible also social data. At the same time, this was also to provide a framework for a satellite system of forest accounts.

Both federal forest inventories with the key years 1987, 2002 and 2012, and the Forest Fund Data Storage (*Waldfonds*) with the reference year 1993, are used as a physical database for information on the balance of forest area, on the wood supply, on the monetary value of the wood supply and on the carbon content of wood biomass and in the forest ecosystem. Economic data are derived from the testoperating network of the Federal Ministry of Food and Agriculture and from the Forest Accounts, as well as from the National Accounts. Furthermore, documents from official statistics (for instance on foreign trade in raw wood or on production statistics), and various surveys and reports by associations on individual aspects, are used as a reference, as are own estimates and calculations of the ThünenInstitute of International Forestry and Forest Economics. The database for results on forest damage is based on the national and transnational forest damage reports of the UNECE/EU. Most of the results are available for the period from 1993 onwards. The published tables start from reporting year 2003. Due to the National Forest Inventory, there are breaks in series compared to last year's publication. Data from 1993 onwards can be provided on request.

Various reports on the methods of forest accounting in Germany are available on the website of www.destatis.de in German language.

⁴ European Commission, 2002: The European Framework for Integrated Environmental and Economic Accounting for Forest - IEEAF. Luxembourg: Office for Official Publications of the European Communities.

Glossary

Transport and the environment

CO₂ emissionen	The anthropogenic emission of carbon dioxide (CO ₂) is seen as dominant reason for climate change. It results before all from the combustion of fossil fuels.
Intensity of goods transport	Intensity of goods transport = domestic goods transport performance (in tonne-kilometres) / gross domestic product (price-adjusted). The term transport covers any conveyance of items and all supplementary domestic services (including air transport and local transport by German lorries up to 50 km).
Intensity of passenger transport	Intensity of passenger transport = passenger transport performance (in passenger kilometres) / gross domestic product (price-adjusted). The term transport covers any conveyance of persons and all supplementary domestic services (including air transport).
Passenger transport services	Passenger transport services are measured in person-kilometres (Pkm). There the number of persons transported is multiplied with the transport distance in kilometres (km).
Share of rail transport and inland freight water transport	Share of rail transport as well as share of inland freight water transport in the total domestic goods transport performance excluding local haulage by German lorries up to 50 km.
Transport	Transport within the Environmental Economic Accounting comprises motorized traffic of persons and goods via land, rivers, sea and air. The usage of mobile vehicles at work like tractors, diggers and forklifts are not included in transport but rather are part of production activities. On the other hand all trips with passenger cars and motor bikes are assigned to transport.
Transport performance	Transport performance is measured in tonne-kilometres (tkm). Within the compilations the volume of transported products in tonnes (t) are multiplied with the transport distance in kilometres (km).

Agriculture and the environment

Nitrous oxide (Laughing gas)	Nitrous oxide escapes especially from agricultural soils. Nitrogen which is contained in mineral and farm manure is transformed in nitrous oxide emissions by chemical processes. Nitrous oxide emissions have a strong impact on climate. It affects climate 310 times (new: 298) more than carbon dioxide.
Methane	Methane occurs when organic substances is decomposed by micro-organisms under exclusion of oxygen, e.g. in rice fields, in the stomach of ruminants or at the storage of farm manure. In Germany methane is emitted mostly by ruminants (beef, sheep and goats) and by the storage of farm manure. For a period of 100 years methane is 21 times (new: 25) more climate-relevant than the same amount of carbon dioxide. Therefore 1 kg methane = 21 (25) kg of CO ₂ equivalents.

Forest accounting

Biomass of timber	Comprises living and dead trees and bushes, from those the overground biomass (wood, bark, branches, twigs) as well as roots. Excluded are foliage and needles. The biomass of wood is used as reference figure for the balance of carbon dioxide.
Change of forest area/Clearing	Area withdrawn from forest use, which change is subject to approval in Germany. Just like forestation area a consistent statistical reporting on altered forest area is missing.
Forestation area	Formerly otherwise used area now planted by forest plants to produce timber. Generally this takes place on agricultural land. Such new forestation has to be authorized in Germany, but is not registered for the whole country.

Gross increment	The gain wood mass by natural growth processes, corresponding to the biological production of the forest enterprises. Gross increment results from the increase of the inventoried trees with a diameter of at least 7 centimetre (including bark) at breast height and including those trees which pass this limit in the timespan of the reporting period.
Natural stock reduction	Loss of forest area by natural events. This kind of reduction rarely occurs in Germany because of a legal duty to afforestation.
Other changes (area balance)	Changes of the area, which do not occur because of human intervention. This position includes succession, natural reduce of stocks and other changes of forest area.
Other changes (timber store)	In this position all other reduction of timber storage are recorded, which are not booked in the category timber removal, especially the not used wooden biomass from landscape care. Over this not used timber because of natural mortality and loss of store because of catastrophes during the reporting period are booked here (e.g. by forest fire, floods or avalanches).
Removal of timber	Volume of all trees being cut and transported out of the forest during the reporting period (living or dead). This comprises trees being cut in the period before, but being taken out of the forest first in the running period as well as trees, which were taken out during the reporting period because they died or were damaged by natural events.
Revaluation	Change of the monetary value of timber stocks, which do not occur because of volume changes but because of the change of prices between the beginning and the end of the reporting period.
Succession	Increase of area because of natural forest growth by areas not used by forestry before. Due to insufficient data the succession area is deducted as a result of differences between given parameters.

Table 11.1: Indicators of the national strategy for sustainability relevant to transport and the environment

No.	Specification	Definition	Unit	1995	2000	2001	2002	2003
Transport relevant figures								
1	Passenger transport intensity.....		2005 = 100	105	99	99	99	100
2	Passenger transport intensity.....	(3b) : (27)	bn pass-km/EUR bn	0.4975	0.4679	0.4697	0.4703	0.4727
Total passenger transport performance of land transport								
3a	(territorial concept) 1).....		bn pass-km	978.5	1,002.3	1,024.8	1,026.8	1,022.8
3b	Total passenger transport performance of transport 1).....		bn pass-km	1,011.0	1,045.1	1,066.7	1,068.1	1,066.1
4	Intensity of goods transport.....		2005 =100	84	91	90	90	95
5	Intensity of goods transport.....	(6) : (27)	bn t-km/EUR bn	0.2122	0.2289	0.2269	0.2271	0.2401
Total goods transport performance of land transport								
6	(territorial concept) 2).....		bn t-km	431.3	511.3	515.3	515.8	541.4
7	Share of railway transports in providing goods transport 3).....	1992 bis 1998 (8) : (11) 1999 bis 2012 (8) : (9)	%	16	17	17	17	17
Total goods transport performance of railway transport								
8	(territorial concept) 3).....		bn t-km	70.5	82.7	81.0	81.1	85.1
Total domestic goods transport performance of land transport not								
9	including local transport (territorial concept) 4).....	(11) - (10)	bn t-km	.	481.5	486.8	489.8	515.6
10	Local transport (territorial concept) 5).....		bn t-km	.	29.8	28.4	26.0	25.8
Total goods transport performance of domestic land transport								
11	(territorial concept) 2).....		bn t-km	431.3	511.3	515.3	515.8	541.4
12	Anteil der Binnenschifffahrt an der Güterbeförderungsleistung 3).....	1992 bis 1998 (13) : (11) 1999 bis 2012 (13) : (9)	%	15	14	13	13	11
13	Total goods transport performance of inland shipping (territorial concept).....		bn t-km	64.0	66.5	64.8	64.2	58.2
27	Gross domestic product in 2005 prices.....		EUR bn	2,032.1	2,233.3	2,271.2	2,271.4	2,255.1
28	Gross domestic product, price-adjusted, chain index.....		2005 = 100	88.4	97.2	98.8	98.9	98.1
29	Gross domestic product in current prices.....		EUR bn	1,898	2,114	2,177	2,206	2,217

1) Source: Verkehr in Zahlen (transport in figures) 2014/2015; Editor: Federal Ministry of Transport, Building and Urban Development.

2) Land transport includes the following modes of transport: transport by railway, sea/inland waterway, road transport affairs and services and crude oil transport via pipeline; source: Verkehr in Zahlen (transport in figures) 2014/2015.

3) Starting 1999 transport by rail is balanced by double gross method (primary and secondary packing (container itself) are included in transport loading: there by the comparability of the freight transport by road indicator is only restricted possible.

4) Excluding of local traffic (less than 50 km) by german trucks; source: Verkehr in Zahlen (transport in figures) 2014/2015.

5) Local traffic (less than 50 km) by german trucks without cabotage (national transport to foreign carriers estimated 3.7 bn t-km for 2005).

Table 11.1: Indicators of the national strategy for sustainability relevant to transport and the environment

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	No.
101	100	97	95	94	101	97	94	94	95	1
0.4782	0.4733	0.4612	0.4481	0.4469	0.4764	0.4574	0.4470	0.4471	0.4488	2
1,042.8	1,035.0	1,043.4	1,043.8	1,050.7	1,059.6	1,064.4	1,075.8	1,079.4	1,084.8	3a
1,091.2	1,087.6	1,099.0	1,102.6	1,111.4	1,117.9	1,117.2	1,131.0	1,135.6	1,141.1	3b
99	100	104	105	104	99	102	101	99	100	4
0.2503	0.2524	0.2617	0.2643	0.2631	0.2489	0.2570	0.2541	0.2491	0.2537	5
571.1	580.0	623.7	650.5	654.3	584.2	627.9	643.1	632.6	645.0	6
17	17	18	18	18	17	18	18	18	18	7
91.9	95.4	107.0	114.6	115.7	95.8	107.3	113.3	110.1	112.6	8
545.2	554.4	596.5	622.6	625.2	557.4	601.3	613.7	603.8	616.2	9
26.0	25.6	27.2	28.0	29.2	26.8	26.5	29.3	28.8	28.8	10
571.1	580.0	623.7	650.5	654.3	584.2	627.9	643.1	632.6	645.0	11
12	12	11	10	10	10	10	9	10	10	12
63.7	64.1	64.0	64.7	64.1	55.5	62.3	55.0	58.5	60.1	13
2,281.7	2,297.8	2,383.1	2,461.0	2,486.9	2,346.7	2,442.7	2,530.4	2,539.9	2,542.6	14
99.3	100.0	103.7	107.1	108.2	102.1	106.3	110.1	110.5	110.7	15
2,268	2,298	2,390	2,510	2,558	2,457	2,576	2,699	2,750	2,809	16

Table 11.2.1: Stocks, vehicle mileages, fuel consumption and CO₂ emissions of cars

No.	Specification	2005	2010	2011	2012	2013	2013 as against 2005	2013 as against 2012	Annual change in	
									2013 as against 2005	2013 as against 2012
		1,000					percent			
1	Total stock 1).....	45,634	41,811	42,396	42,860	43,271	94.8	101.0	-0.5	1.0
2	diesel cars.....	9,593	11,267	11,891	12,579	13,215	137.8	105.1	3.8	5.1
3	gasoline cars 2).....	36,041	30,545	30,505	30,281	30,056	83.4	99.3	-1.7	-0.7
4	Stock of private households 3).....	41,265	37,799	38,261	38,581	39,182	95.0	101.6	-0.5	1.6
5	Stock of cars > 1,600 ccm	20,200	17,703	17,684	17,639	17,833	88.3	101.1	-1.2	1.1
6	Share on total stock	49	47	46	46	46	-	-	-	-
7	diesel cars.....	7,207	8,711	9,203	9,779	10,609	147.2	108.5	4.7	8.5
8	gasoline cars.....	34,058	29,088	29,059	28,802	28,572	83.9	99.2	-1.6	-0.8
		1,000 km								
9	Average vehicle mileage total 1).....	12.7	14.0	14.1	13.9	13.9	109.7	99.9	1.0	-0.1
10	diesel cars.....	19.5	21.1	20.7	20.6	20.5	105.4	99.4	0.5	-0.6
11	gasoline cars.....	10.9	11.4	11.5	11.1	11.0	101.2	98.8	0.1	-1.2
12	Average vehicle mileage of private households 1).....	11.7	12.9	12.9	12.7	12.7	108.7	99.9	0.9	-0.1
13	diesel cars.....	17.1	18.7	18.3	18.3	18.1	105.8	99.1	0.6	-0.9
14	gasoline cars.....	10.5	11.2	11.2	10.8	10.7	101.5	98.8	0.2	-1.2
		mn km								
15	Vehicle mileages total.....	577,778	587,116	595,881	596,203	601,070	104.0	100.8	0.4	0.8
16	diesel cars.....	186,721	237,700	246,580	259,698	271,143	145.2	104.4	4.5	4.4
17	gasoline cars.....	391,058	349,416	349,301	336,506	329,927	84.4	98.0	-1.6	-2.0
18	Vehicle mileages of private households.....	481,948	487,512	492,856	490,280	497,620	103.3	101.5	0.3	1.5
19	diesel cars.....	123,325	162,672	168,196	178,624	192,128	155.8	107.6	5.6	7.6
20	gasoline cars.....	358,624	324,840	324,660	311,656	305,491	85.2	98.0	-1.5	-2.0
		litre / 100 km								
21	Specific consumption.....	7.8	7.5	7.4	7.3	7.3	93.8	100.1	-0.6	0.1
22	diesel cars.....	6.8	6.8	6.7	6.7	6.8	99.7	100.9	0.0	0.9
23	gasoline cars.....	8.3	7.9	7.9	7.8	7.8	93.8	99.9	-0.6	-0.1
		mn litres								
24	Total consumption.....	45,260	43,873	44,318	43,781	44,177	97.6	100.9	-0.2	0.9
25	diesel cars.....	12,740	16,149	16,613	17,499	18,439	144.7	105.4	4.5	5.4
26	gasoline cars.....	32,520	27,724	27,705	26,283	25,738	79.1	97.9	-2.1	-2.1
27	Consumption of private households 3).....	38,239	36,824	37,081	36,372	36,891	96.5	101.4	-0.4	1.4
28	diesel cars.....	8,414	11,052	11,331	12,032	13,061	155.2	108.6	5.5	8.6
29	gasoline cars.....	29,825	25,773	25,750	24,340	23,831	79.9	97.9	-2.0	-2.1
		1,000 tonnes								
30	Total consumption.....	35,030	34,278	34,651	34,324	34,700	99.1	101.1	-0.1	1.1
31	diesel cars.....	10,634	13,480	13,867	14,607	15,391	144.7	105.4	4.5	5.4
32	gasoline cars.....	24,396	20,798	20,784	19,717	19,309	79.1	97.9	-2.1	-2.1
33	Consumption of private households 3).....	31,419	30,023	30,243	29,760	30,211	96.2	101.5	-0.4	1.5
34	diesel cars.....	7,023	9,225	9,459	10,043	10,902	155.2	108.6	5.5	8.6
35	gasoline cars.....	24,396	20,798	20,784	19,717	19,309	79.1	97.9	-2.1	-2.1
		1,000 tonnes CO ₂								
36	CO2 emissions of total cars.....	107,842	103,174	104,344	103,311	104,895	97.3	101.5	-0.3	1.5
37	diesel cars.....	31,849	40,174	41,516	43,863	46,665	146.5	106.4	4.7	6.4
38	gasoline cars.....	75,993	63,001	62,828	59,448	58,230	76.6	98.0	-2.3	-2.0
39	CO2 emissions of cars of private households 3).....	93,137	88,209	88,936	87,517	89,237	95.8	102.0	-0.4	2.0
40	diesel cars.....	22,551	29,257	30,155	32,063	34,930	154.9	108.9	5.5	8.9
41	gasoline cars.....	70,295	58,952	58,781	55,454	54,307	77.3	97.9	-2.3	-2.1

*) Residents concept.

1) Vehicle fleet from 2007 onwards without vehicles temporarily deregistered.

Therefore fleet data and figures for average mileage of vehicles are not fully comparable over time.

2) Including vehicles with "other engines" but without gas-driven vehicles.

3) In line with the consumption approach mileage and fuel consumption of rented cars are attributed to private households. For consistency reasons the corresponding number of rented vehicles is attributed to private households also. Mileage and fuel consumption of company cars privately used are not included.

Table 11.2.2: Stocks, vehicle mileages, fuel consumption and CO₂ emissions of lorries^{*)}

No.	Specification	Unit	2005	2010	2011	2012	2013	2013 as against 2005	2013 as against 2012	Annual change in	
										2013 as against 2005	2013 as against 2012
								percent			
1	Total stock.....	1,000	2 761	2 596	2 687	2 734	2 786	101	102	0.1	1.9
2	Average vehicle mileage total....	1,000 km per lorry	26.3	29.6	29.5	28.9	28.8	110	99	1.0	-0.6
3	Vehicle mileage total.....	mn km	72 494	76 924	79 224	79 099	80 127	111	101	1.1	1.3
4	Specific fuel consumption.....	litre / 100 km	24.7	24.4	23.9	23.5	23.4	95	100	-0.5	-0.4
5	Total fuel consumption.....	mn litres	17 926	18 743	18 944	18 618	18 788	105	101	0.5	0.9
6	Total fuel consumption.....	1,000 tonnes	14 937	15 627	15 795	15 523	15 666	105	101	0.5	0.9
7	CO2 emissions of total lorries....	1,000 tonnes CO ₂	46 272	50 732	47 821	49 156	49 705	107	101	0.7	1.1

^{*)} Lorries include: lorries, trucks and trailers and light duty vehicles.

Table 11.3.1: Stocks by vehicle categories and sectors, motor gasoline ^{*)}

1,000

No.	No. (KBA)	Owner categories	Total	Cars	Other traction engine ^{1) 2)}	Light duty vehicles	Motorcycles ^{2) 3)}	Other
01.01.2002								
1	1	Agriculture, hunting and forestry.....	63,766	48,486	8,926	2,419	3,245	690
2	2	Fishing.....	47	45	-	1	1	-
3	3	Mining and quarrying.....	10,963	9,725	-	741	152	345
4	4	Manufacturing.....	375,772	342,170	84	19,508	11,365	2,645
5	5	Electricity, gas and water supply.....	22,524	17,942	17	3,787	88	690
6	6	Construction work.....	162,979	136,921	50	20,881	2,827	2,300
7	7	Wholesale and retail trade; repair of motor vehicles.....	636,742	584,553	101	16,610	30,993	4,485
8	8	Hotel and restaurant industries.....	45,476	42,609	17	1,854	881	115
9	9	Transport, storage and communication.....	70,753	62,224	34	1,955	3,896	2,645
10	10	Financial intermediation.....	39,261	38,405	17	291	433	115
11	11	Real estate, renting and business activities.....	93,046	87,885	17	1,784	2,670	690
12	111	including: rental services of passenger cars.....	183,898	182,298	-	763	607	230
13	12	Public administration and defence.....	115,021	86,704	285	8,074	4,203	15,754
14	13	Education.....	509	378	-	8	123	-
15	14	Health and social work.....	65,101	61,626	17	747	1,906	805
16	15	Other community, social and personal services.....	1,201,694	1,096,755	386	56,447	30,627	17,479
17	16	Extra-territorial organizations and bodies.....	624	605	-	11	8	-
18	17	Employees and economically inactive population.....	38,231,163	34,564,502	6,829	134,345	3,459,709	65,778
19	18	Unknown.....	50,029	44,709	-	866	4,224	230
20		Total.....	41,369,367	37,408,542	16,779	271,092	3,557,958	114,996
01.01.2005								
21	1	Agriculture, hunting and forestry.....	49,715	33,003	11,321	1,687	3,045	659
22	2	Fishing.....	123	112	-	8	3	-
23	3	Mining and quarrying.....	6,061	5,283	-	471	119	188
24	4	Manufacturing.....	301,193	277,144	97	12,699	9,370	1,884
25	5	Electricity, gas and water supply.....	23,592	18,789	24	4,091	123	565
26	6	Construction work.....	111,575	93,909	48	13,154	2,768	1,695
27	7	Wholesale and retail trade; repair of motor vehicles.....	525,347	478,553	145	11,452	31,618	3,579
28	8	Hotel and restaurant industries.....	34,671	32,402	24	1,321	830	94
29	9	Transport, storage and communication.....	72,871	64,673	48	2,050	4,310	1,789
30	10	Financial intermediation.....	27,781	27,099	24	228	430	-
31	11	Real estate, renting and business activities.....	92,213	85,599	48	2,173	3,451	942
32	111	including: rental services of passenger cars.....	160,363	158,929	-	136	921	377
33	12	Public administration and defence.....	92,380	68,218	411	7,016	4,020	12,714
34	13	Education.....	2,366	1,354	-	30	982	-
35	14	Health and social work.....	72,200	68,378	24	874	1,888	1,036
36	15	Other community, social and personal services.....	902,568	816,934	556	42,129	30,328	12,620
37	16	Extra-territorial organizations and bodies.....	3,373	3,272	-	67	34	-
38	17	Employees and economically inactive population.....	37,952,942	34,040,351	11,418	114,773	3,730,457	55,944
39	18	Unknown.....	34,529	29,888	-	424	4,123	94
40		Total.....	40,465,864	36,303,890	24,190	214,783	3,828,820	94,181
01.01.2010 ⁴⁾								
41	1	Agriculture, forestry and fishing.....	27,610	17,497	6,094	939	2,564	516
42	2	Mining and quarrying.....	2,512	2,073	7	254	76	103
43	3	Manufacturing.....	182,267	169,421	68	7,265	4,551	962
44	4	Electricity, gas, steam and air conditioning supply.....	14,362	10,505	9	3,522	121	205
45	5	Water supply; sewerage, waste management.....	13,856	9,901	23	2,429	221	1,282
46	6	Construction.....	67,398	56,350	45	7,402	2,594	1,007
47	7	Wholesale and retail trade; repair of motor vehicles.....	310,480	284,852	72	7,931	15,731	1,895
48	8	Transportation and storage.....	40,000	33,677	41	2,107	3,423	752
49	9	Hotel and restaurant industries.....	23,370	21,607	12	992	730	29
50	10	Information and communication.....	5,529	4,970	1	414	93	52
51	11	Financial and insurance activities.....	15,238	14,630	5	193	391	19
52	12	Real estate activities.....	911	857	0	43	8	3
53	13	Professional, scientific and technical activities.....	1,896	1,827	0	29	38	2
54	14	Administrative and support service activities.....	65,722	60,615	26	2,516	2,198	367
55	15	Rental services of vehicles.....	85,458	84,845	1	95	424	93
56	16	Public administration and defence.....	64,289	45,075	251	6,102	3,957	8,904
57	17	Education.....	3,558	2,095	1	62	1,395	5
58	18	Human health and social work activities.....	80,204	76,881	16	1,193	1,821	293
59	19	Arts, entertainment and recreation services.....	9,717	7,256	14	310	2,074	63
60	20	Other service activities.....	647,175	582,535	301	31,459	27,043	5,837
61	21	Extra-territorial organizations and bodies.....	2,625	2,454	2	98	37	34
62	22	Employees and economically inactive population.....	33,191,661	29,406,018	7,270	85,251	3,688,892	4,230
63	23	Unknown.....	50,968	23,713	6	23,040	4,179	30
64		Total.....	34,906,808	30,919,654	14,264	183,646	3,762,561	26,683

Table 11.3.1: Stocks by vehicle categories and sectors, motor gasoline ^{*)}

1,000

No.	No. (KBA)	Owner categories	Total	Cars	Other traction engine ^{1) 2)}	Light duty vehicles	Motorcycles ^{2) 3)}	Other
01.01.2011								
65	1	Agriculture, forestry and fishing.....	26,820	16,291	6,552	928	2,535	514
66	2	Mining and quarrying.....	2,275	1,878	7	224	76	90
67	3	Manufacturing.....	198,580	185,617	78	7,094	4,890	901
68	4	Electricity, gas, steam and air conditioning supply.....	15,785	11,473	11	3,932	183	187
69	5	Water supply; sewerage, waste management.....	12,961	9,225	25	2,347	221	1,143
70	6	Construction.....	67,415	56,449	51	7,296	2,674	944
71	7	Wholesale and retail trade; repair of motor vehicles.....	343,269	318,016	83	7,971	15,422	1,777
72	8	Transportation and storage.....	39,230	33,026	47	2,165	3,308	684
73	9	Hotel and restaurant industries.....	23,954	22,125	13	1,023	765	28
74	10	Information and communication.....	8,368	7,718	1	421	184	44
75	11	Financial and insurance activities.....	16,373	15,703	5	205	443	17
76	12	Real estate activities.....	3,800	3,498	2	210	65	25
77	13	Professional, scientific and technical activities.....	7,612	7,305	0	84	217	5
78	14	Administrative and support service activities.....	73,158	66,875	35	2,896	2,870	482
79	15	Rental services of vehicles.....	92,822	92,219	2	94	416	91
80	16	Public administration and defence.....	60,751	42,007	275	6,193	3,964	8,312
81	17	Education.....	4,109	2,469	1	77	1,556	6
82	18	Human health and social work activities.....	87,608	84,089	18	1,311	1,863	327
83	19	Arts, entertainment and recreation services.....	9,533	7,295	15	333	1,835	55
84	20	Other service activities.....	601,442	539,707	327	29,922	26,275	5,210
85	21	Extra-territorial organizations and bodies.....	3,069	2,824	4	128	49	64
86	22	Employees and economically inactive population.....	33,335,632	29,484,818	8,465	84,189	3,754,245	3,915
87	23	Unknown.....	28,516	24,043	7	178	4,254	35
88		Total.....	35,063,082	31,034,670	16,026	159,221	3,828,310	24,855
01.01.2012								
89	1	Agriculture, forestry and fishing.....	26,924	15,246	7,792	863	2,497	526
90	2	Mining and quarrying.....	1,977	1,621	8	192	73	83
91	3	Manufacturing.....	209,029	196,498	99	6,725	4,862	845
92	4	Electricity, gas, steam and air conditioning supply.....	16,912	12,474	15	4,011	232	180
93	5	Water supply; sewerage, waste management.....	12,080	8,563	29	2,210	230	1,048
94	6	Construction.....	67,696	56,801	65	7,040	2,878	912
95	7	Wholesale and retail trade; repair of motor vehicles.....	349,477	324,443	111	7,591	15,659	1,672
96	8	Transportation and storage.....	37,758	32,177	59	1,767	3,111	644
97	9	Hotel and restaurant industries.....	24,356	22,503	16	1,029	781	27
98	10	Information and communication.....	10,148	9,443	2	415	249	40
99	11	Financial and insurance activities.....	16,998	16,278	6	216	482	16
100	12	Real estate activities.....	6,468	5,930	3	372	135	28
101	13	Professional, scientific and technical activities.....	13,390	12,815	1	137	429	8
102	14	Administrative and support service activities.....	76,726	69,866	50	3,139	3,174	497
103	15	Rental services of vehicles.....	84,815	84,165	3	71	485	92
104	16	Public administration and defence.....	58,428	40,265	334	6,029	4,033	7,768
105	17	Education.....	4,656	2,807	2	80	1,761	6
106	18	Human health and social work activities.....	93,351	89,774	23	1,348	1,884	322
107	19	Arts, entertainment and recreation services.....	9,278	7,207	19	314	1,687	51
108	20	Other service activities.....	570,748	511,809	407	27,924	25,875	4,734
109	21	Extra-territorial organizations and bodies.....	3,337	3,051	6	144	55	81
110	22	Employees and economically inactive population.....	33,423,978	29,493,139	10,894	81,816	3,834,470	3,659
111	23	Unknown.....	22,510	18,821	6	129	3,515	39
112		Total.....	35,141,039	31,035,696	19,949	153,562	3,908,557	23,275
01.01.2013								
113	1	Agriculture, forestry and fishing.....	26,349	14,152	8,364	823	2,475	535
114	2	Mining and quarrying.....	1,776	1,453	9	168	69	76
115	3	Manufacturing.....	203,771	190,802	111	6,561	5,498	799
116	4	Electricity, gas, steam and air conditioning supply.....	17,613	12,868	17	4,260	290	178
117	5	Water supply; sewerage, waste management.....	11,184	7,874	32	2,097	224	956
118	6	Construction.....	67,246	56,337	73	6,918	3,048	870
119	7	Wholesale and retail trade; repair of motor vehicles.....	351,677	325,606	124	7,541	16,845	1,561
120	8	Transportation and storage.....	36,811	31,324	65	1,738	3,073	610
121	9	Hotel and restaurant industries.....	24,541	22,625	18	1,046	828	25
122	10	Information and communication.....	11,601	10,832	2	405	328	34
123	11	Financial and insurance activities.....	17,446	16,696	7	218	511	14
124	12	Real estate activities.....	8,603	7,878	4	504	189	27
125	13	Professional, scientific and technical activities.....	18,661	17,818	1	188	643	11
126	14	Administrative and support service activities.....	78,327	70,901	61	3,397	3,456	512
127	15	Rental services of vehicles.....	79,403	78,676	3	92	542	90
128	16	Public administration and defence.....	56,767	38,849	366	6,174	4,092	7,286
129	17	Education.....	5,164	3,130	2	86	1,940	6
130	18	Human health and social work activities.....	99,719	96,029	26	1,399	1,950	315
131	19	Arts, entertainment and recreation services.....	9,082	7,139	22	325	1,548	48
132	20	Other service activities.....	546,487	489,182	448	26,631	25,896	4,330
133	21	Extra-territorial organizations and bodies.....	3,582	3,258	9	160	61	94
134	22	Employees and economically inactive population.....	33,329,947	29,327,252	12,576	80,287	3,906,436	3,396
135	23	Unknown.....	22,773	19,040	6	123	3,578	26
136		Total.....	35,028,528	30,849,721	22,347	151,141	3,983,520	21,799

*) Source: National vehicle registration office (Kraftfahrtbundesamt), figures from the beginning of the year (first of January).

1) Drawing vehicles without semitrailers and agriculture trucks.

2) Allocation on vehicle owners according the stocks of other trailers, motor bikes and other vehicles.

3) Without mopeds. Incl. other propulsion types. - 4) New classification of vehicle owners since January 2009.

Table 11.3.2: Stocks by vehicle categories and sectors, gas-diesel oil^{*)}

1,000

No.	No. (KBA)	Owner categories	Total	Cars	Trucks ¹⁾	Semi-trailer trucks	Other traction engine ^{2) 3)}	Light duty vehicles	Buses ¹⁾	Other
01.01.2002										
1	1	Agriculture, hunting and forestry.....	1,012,229	34,930	16,094	1,092	934,412	22,251	68	3,382
2	2	Fishing.....	93	38	24	1	-	30	-	-
3	3	Mining and quarrying.....	26,879	10,002	7,468	1,439	-	6,249	30	1,691
4	4	Manufacturing.....	507,550	298,154	60,567	7,124	8,782	119,416	544	12,963
5	5	Electricity, gas and water supply.....	33,779	10,569	3,779	113	1,756	13,135	1,045	3,382
6	6	Construction work.....	428,777	141,652	84,860	5,766	5,269	179,878	79	11,272
7	7	Wholesale and retail trade; repair of motor vehicles.....	612,195	338,375	98,029	19,295	10,538	121,267	2,709	21,981
8	8	Hotel and restaurant industries.....	22,444	13,935	1,088	68	1,756	4,983	50	564
9	9	Transport, storage and communication.....	438,924	97,406	120,542	80,209	3,513	74,138	50,153	12,963
10	10	Financial intermediation.....	19,705	15,750	789	56	1,756	728	62	564
11	11	Real estate, renting and business activities.....	64,931	44,491	3,570	508	1,756	10,972	252	3,382
12	111	including: rental services of passenger cars.....	174,609	133,639	13,772	1,799	-	24,162	110	1,127
13	12	Public administration and defence.....	210,433	42,979	22,327	198	29,859	35,358	2,497	77,215
14	13	Education.....	641	584	15	3	-	36	3	-
15	14	Health and social work.....	33,642	23,954	953	20	1,756	2,900	113	3,945
16	15	Other community, social and personal services.....	1,563,693	776,900	212,474	38,267	40,398	389,173	20,812	85,670
17	16	Extra-territorial organizations and bodies.....	371	286	26	1	-	55	3	-
18	17	Employees and economically inactive population.....	6,776,125	4,985,311	143,100	21,837	714,860	581,189	7,439	322,388
19	18	Unknown.....	10,141	5,826	991	88	-	1,617	492	1,127
20		Total.....	11,937,161	6,974,781	790,468	177,884	1,756,414	1,587,537	86,461	563,616
01.01.2005										
21	1	Agriculture, hunting and forestry.....	883,157	28,520	12,799	1,135	820,114	20,490	99	4,217
22	2	Fishing.....	466	188	122	5	-	149	2	-
23	3	Mining and quarrying.....	19,925	8,644	5,334	1,092	-	4,837	18	1,205
24	4	Manufacturing.....	564,833	383,986	52,080	6,923	7,010	114,276	558	12,049
25	5	Electricity, gas and water supply.....	41,723	16,508	4,097	126	1,752	18,193	1,047	3,615
26	6	Construction work.....	392,153	145,018	71,001	5,687	3,505	166,876	66	10,844
27	7	Wholesale and retail trade; repair of motor vehicles.....	673,983	440,443	80,624	18,033	10,514	121,402	2,967	22,894
28	8	Hotel and restaurant industries.....	24,568	16,600	992	73	1,752	5,106	45	602
29	9	Transport, storage and communication.....	467,174	141,758	103,642	86,032	3,505	81,303	50,934	11,447
30	10	Financial intermediation.....	31,374	28,228	507	61	1,752	763	63	-
31	11	Real estate, renting and business activities.....	130,402	93,838	7,167	1,783	3,505	23,282	827	6,025
32	111	including: rental services of passenger cars.....	257,951	208,632	14,320	4,768	-	30,063	168	2,410
33	12	Public administration and defence.....	155,058	64,732	21,398	160	29,790	37,057	1,921	81,333
34	13	Education.....	3,351	3,033	90	12	-	193	23	-
35	14	Health and social work.....	48,948	40,994	1,353	28	1,752	4,618	203	6,627
36	15	Other community, social and personal services.....	1,564,197	909,970	179,225	36,712	40,305	379,046	18,939	80,730
37	16	Extra-territorial organizations and bodies.....	3,608	3,189	125	11	-	266	17	-
38	17	Employees and economically inactive population.....	8,181,884	6,531,720	130,336	22,673	827,123	662,647	7,385	357,863
39	18	Unknown.....	7,491	5,635	599	50	-	981	226	602
40		Total.....	13,452,247	9,071,636	685,811	185,364	1,752,380	1,671,548	85,508	602,463
01.01.2010 ⁴⁾										
41	1	Agriculture, forestry and fishing.....	295,984	22,403	3,851	1,361	240,896	22,884	55	4,534
42	2	Mining and quarrying.....	14,384	6,298	1,675	537	263	4,681	28	902
43	3	Manufacturing.....	559,879	393,697	20,213	6,426	2,697	127,968	428	8,450
44	4	Electricity, gas, steam and air conditioning supply.....	40,350	18,023	801	84	357	18,838	442	1,805
45	5	Water supply; sewerage, waste management.....	58,000	15,681	9,175	1,378	895	18,971	634	11,266
46	6	Construction.....	367,915	143,861	24,930	4,851	1,771	183,578	71	8,853
47	7	Wholesale and retail trade; repair of motor vehicles.....	555,391	346,601	34,313	15,172	2,835	137,792	2,030	16,648
48	8	Transportation and storage.....	401,761	112,643	58,002	83,333	1,637	91,944	47,596	6,607
49	9	Hotel and restaurant industries.....	26,114	18,750	295	54	463	6,249	46	257
50	10	Information and communication.....	46,603	35,310	406	193	33	10,117	91	453
51	11	Financial and insurance activities.....	40,422	38,839	168	27	195	1,018	12	163
52	12	Real estate activities.....	1,347	986	8	7	9	314	-	23
53	13	Professional, scientific and technical activities.....	3,410	3,012	6	8	7	362	2	13
54	14	Administrative and support service activities.....	141,632	96,360	4,050	2,056	1,018	34,029	891	3,228
55	15	Rental services of vehicles.....	138,840	98,024	3,459	4,971	56	31,321	192	817
56	16	Public administration and defence.....	227,111	82,055	8,463	161	9,918	47,081	1,189	78,244
57	17	Education.....	5,501	4,771	89	21	31	502	41	45
58	18	Human health and social work activities.....	83,699	71,076	449	35	615	8,680	268	2,575
59	19	Arts, entertainment and recreation services.....	15,491	11,362	263	253	559	2,377	122	555
60	20	Other service activities.....	1,702,935	1,047,734	67,109	31,667	11,884	476,854	16,394	51,292
61	21	Extra-territorial organizations and bodies.....	2,819	1,740	84	13	79	579	22	302
62	22	Employees and economically inactive population.....	9,347,271	8,239,129	36,270	18,263	287,381	723,225	5,830	37,173
63	23	Unknown.....	10,954	9,518	122	40	225	734	49	266
64		Total.....	14,087,812	10,817,873	274,201	170,911	563,825	1,950,098	76,433	234,471

Table 11.3.2: Stocks by vehicle categories and sectors, gas-diesel oil^{*)}

1,000

No.	No. (KBA)	Owner categories	Total	Cars	Trucks ¹⁾	Semi-trailer trucks	Other traction engine ^{2) 3)}	Light duty vehicles	Buses ¹⁾	Other
01.01.2011										
65	1	Agriculture, forestry and fishing.....	283,453	22,803	3,725	1,483	227,805	23,010	41	4,586
66	2	Mining and quarrying.....	13,666	5,929	1,567	549	243	4,434	32	912
67	3	Manufacturing.....	580,756	405,653	20,817	7,070	2,716	135,403	551	8,546
68	4	Electricity, gas, steam and air conditioning supply.....	47,249	20,898	835	104	365	22,746	475	1,825
69	5	Water supply; sewerage, waste management.....	58,584	15,757	9,553	1,332	859	19,149	539	11,395
70	6	Construction.....	385,032	151,174	24,243	4,927	1,785	193,875	74	8,954
71	7	Wholesale and retail trade; repair of motor vehicles.....	573,904	355,738	34,917	16,991	2,891	144,625	1,904	16,838
72	8	Transportation and storage.....	413,538	113,271	59,357	88,097	1,625	95,903	48,603	6,682
73	9	Hotel and restaurant industries.....	27,918	20,006	287	54	449	6,819	43	260
74	10	Information and communication.....	55,799	44,348	381	188	44	10,302	78	458
75	11	Financial and insurance activities.....	43,786	41,971	160	33	175	1,278	4	165
76	12	Real estate activities.....	5,632	4,022	39	17	69	1,462	-	23
77	13	Professional, scientific and technical activities.....	13,325	11,945	33	15	14	1,303	2	14
78	14	Administrative and support service activities.....	172,142	116,332	5,057	2,743	1,212	42,387	1,146	3,264
79	15	Rental services of vehicles.....	145,535	101,242	3,452	5,511	71	34,238	195	826
80	16	Public administration and defence.....	233,316	86,432	8,559	175	9,564	48,311	1,138	79,137
81	17	Education.....	6,684	5,814	96	22	39	613	54	46
82	18	Human health and social work activities.....	92,350	78,728	465	44	631	9,613	264	2,605
83	19	Arts, entertainment and recreation services.....	16,128	11,849	230	273	534	2,550	131	561
84	20	Other service activities.....	1,628,372	989,654	63,456	30,304	11,383	466,320	15,377	51,878
85	21	Extra-territorial organizations and bodies.....	3,933	2,454	113	22	140	874	25	305
86	22	Employees and economically inactive population.....	9,784,718	8,650,503	34,990	18,050	294,314	743,527	5,737	37,597
87	23	Unknown.....	11,903	10,257	151	46	231	899	50	269
88		Total.....	14,597,722	11,266,780	272,483	178,050	557,157	2,009,641	76,463	237,148
01.01.2012										
89	1	Agriculture, forestry and fishing.....	271,875	23,317	8,028	1,640	214,476	19,369	46	4,998
90	2	Mining and quarrying.....	13,610	5,845	2,608	592	228	3,428	32	877
91	3	Manufacturing.....	621,448	437,210	43,525	7,810	2,719	120,828	588	8,768
92	4	Electricity, gas, steam and air conditioning supply.....	54,208	23,697	2,827	119	405	24,791	554	1,815
93	5	Water supply; sewerage, waste management.....	59,614	16,316	14,001	1,379	809	15,481	504	11,124
94	6	Construction.....	414,625	161,615	51,359	5,312	1,785	185,301	67	9,186
95	7	Wholesale and retail trade; repair of motor vehicles.....	621,583	389,816	63,457	18,175	3,057	127,929	1,861	17,288
96	8	Transportation and storage.....	430,692	117,990	80,583	92,114	1,632	82,974	48,744	6,655
97	9	Hotel and restaurant industries.....	30,350	21,814	869	52	450	6,848	48	269
98	10	Information and communication.....	63,258	52,066	772	163	48	9,710	70	428
99	11	Financial and insurance activities.....	48,979	46,353	271	37	172	1,979	4	164
100	12	Real estate activities.....	9,723	6,858	278	22	87	2,238	1	239
101	13	Professional, scientific and technical activities.....	24,774	22,366	195	28	18	2,113	2	52
102	14	Administrative and support service activities.....	206,969	135,534	11,483	8,275	1,364	44,277	1,350	4,686
103	15	Rental services of vehicles.....	169,801	122,246	11,775	5,186	75	29,436	198	885
104	16	Public administration and defence.....	238,554	88,692	20,001	185	9,185	38,511	1,122	80,858
105	17	Education.....	7,693	6,722	209	22	42	585	56	57
106	18	Human health and social work activities.....	100,627	85,435	2,062	58	635	8,996	264	3,177
107	19	Arts, entertainment and recreation services.....	16,711	12,357	685	264	533	2,197	139	536
108	20	Other service activities.....	1,606,301	970,445	126,576	30,224	11,193	402,490	14,684	50,688
109	21	Extra-territorial organizations and bodies.....	5,188	3,074	377	28	177	886	27	619
110	22	Employees and economically inactive population.....	10,293,216	9,130,459	97,182	17,786	299,872	704,291	5,541	38,086
111	23	Unknown.....	13,076	11,472	334	36	154	665	77	338
112		Total.....	15,322,877	11,891,699	539,457	189,507	549,117	1,835,323	75,979	241,795
01.01.2013										
113	1	Agriculture, forestry and fishing.....	264,463	23,782	7,754	1,697	205,656	19,962	51	5,561
114	2	Mining and quarrying.....	13,650	5,950	2,514	600	229	3,440	39	878
115	3	Manufacturing.....	659,227	467,763	43,976	8,196	2,727	126,992	640	8,933
116	4	Electricity, gas, steam and air conditioning supply.....	59,284	25,746	2,917	133	428	27,631	521	1,908
117	5	Water supply; sewerage, waste management.....	60,232	16,527	14,240	1,391	796	15,687	511	11,080
118	6	Construction.....	438,366	170,829	52,244	5,409	1,802	198,369	68	9,645
119	7	Wholesale and retail trade; repair of motor vehicles.....	653,345	416,326	63,466	17,149	3,042	134,097	1,579	17,686
120	8	Transportation and storage.....	439,852	122,280	80,379	93,155	1,607	85,824	49,800	6,807
121	9	Hotel and restaurant industries.....	32,712	23,629	841	49	434	7,430	45	284
122	10	Information and communication.....	66,705	55,188	782	188	49	10,018	60	420
123	11	Financial and insurance activities.....	52,817	49,769	283	37	169	2,387	3	169
124	12	Real estate activities.....	13,476	9,542	403	29	107	3,094	2	299
125	13	Professional, scientific and technical activities.....	35,432	32,094	252	38	28	2,930	5	85
126	14	Administrative and support service activities.....	230,240	151,464	12,176	7,874	1,500	50,270	1,701	5,255
127	15	Rental services of vehicles.....	170,199	124,905	10,739	4,627	85	28,688	186	969
128	16	Public administration and defence.....	244,010	91,578	20,304	169	9,008	39,688	1,122	82,141
129	17	Education.....	8,587	7,510	222	21	49	662	60	63
130	18	Human health and social work activities.....	107,787	91,631	2,122	52	635	9,687	259	3,401
131	19	Arts, entertainment and recreation services.....	17,034	12,578	686	281	531	2,275	147	536
132	20	Other service activities.....	1,603,079	971,941	121,507	29,157	11,019	405,381	14,017	50,057
133	21	Extra-territorial organizations and bodies.....	6,235	3,598	440	27	214	1,076	28	852
134	22	Employees and economically inactive population.....	10,877,287	9,694,570	94,740	17,159	309,218	717,568	5,344	38,688
135	23	Unknown.....	13,357	12,026	143	18	137	600	21	412
136		Total.....	16,067,375	12,581,226	533,130	187,456	549,470	1,893,756	76,209	246,128

*) Source: National vehicle registration office (Kraftfahrtbundesamt), figures from the beginning of the year (first of January).

1) Including other propulsion types. - 2) Drawing vehicles without semitrailers and agriculture trucks.

3) Allocation on vehicle owners according the stocks of other trailers, motor bikes and other vehicles.

4) New classification of vehicle owners since January 2009.

Table 11.4.1: Vehicle mileages in road transport total^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	5,195	5,184	5,271	5,288
2	B	Mining and quarrying.....	701	604	591	534
3	C	Manufactured products.....	18,056	17,565	18,254	18,350
4	D	Electricity, gas, steam and air conditioning.....	838	884	1,001	979
5	E	Water supply; sewerage, waste management and remediation services.....	8,786	8,205	8,357	8,445
6	F	Constructions and construction works.....	11,562	10,686	10,275	9,616
7	G	Wholesale and retail trade services; repair services of motor vehicles and motorcycles.....	28,155	27,323	28,449	27,890
8	H	Transportation and storage services.....	28,440	29,078	30,574	31,124
9	I	Accommodation and food services.....	1,245	1,158	1,155	1,092
10	J	Information and Communication services.....	7,546	7,353	7,431	7,374
11	K	Financial and insurance services.....	1,081	1,089	1,144	1,165
12	L	Real estate services.....	2,112	2,472	2,796	3,017
13	M	Professional, scientific and technical services.....	24,003	22,088	22,099	22,805
14	N	Administrative and support services.....	1,373	1,764	1,963	1,902
15	O	Public administration and defence services; compulsory social security services.....	4,438	4,530	4,550	4,822
16	P	Education services.....	362	366	397	413
17	Q	Human health and social work services.....	652	3,659	1,935	3,167
18	R-T	Other services.....	13,157	12,203	12,421	12,081
19		All homogeneous branches.....	157,702	156,211	158,665	160,065
20		Private households.....	529,490	526,003	537,733	523,832
21		All homogeneous branches and private households (residents concept) 4).....	687,192	682,215	696,398	683,897

*) Including kilometrage under utilization of petrol, bio-ethanol, gasoline and bio-gasoline; excluding kilometrage with "other engines" but without gas-driven vehicles.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

Table 11.4.1: Vehicle mileages in road transport total^{*)}

mn km

2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
5,415	5,482	5,512	5,775	5,868	6,153	6,342	6,561	1
529	470	444	593	396	628	647	607	2
19,481	18,746	17,996	18,418	19,228	20,311	21,137	20,892	3
1,043	1,082	1,170	1,552	1,756	1,956	2,100	2,101	4
9,642	9,765	10,098	9,910	9,424	9,289	8,940	8,858	5
9,752	9,382	9,481	8,867	9,320	10,197	10,685	10,745	6
28,793	28,607	26,878	25,871	26,855	28,043	28,742	28,536	7
32,892	33,899	33,990	30,098	31,049	32,144	31,900	31,680	8
1,123	1,029	1,070	1,026	1,084	1,152	1,217	1,203	9
7,442	7,221	7,506	5,298	5,033	4,924	4,817	4,757	10
1,291	1,212	1,263	1,342	1,454	1,597	1,704	1,671	11
3,304	3,155	3,178	3,152	3,170	3,233	3,342	3,306	12
25,142	25,014	26,583	26,540	25,692	25,393	25,575	25,285	13
1,273	1,704	1,798	986	1,162	1,302	1,421	1,405	14
5,103	5,046	5,285	5,325	5,450	5,362	5,426	5,410	15
448	459	490	470	494	520	541	532	16
1,078	2,568	2,828	3,122	3,403	3,656	3,852	3,813	17
13,054	12,999	13,907	13,580	13,074	12,778	12,669	12,537	18
166,806	167,840	169,477	161,925	163,910	168,638	171,058	169,900	19
519,490	520,244	513,001	525,038	528,149	535,129	533,370	540,690	20
686,295	688,084	682,478	686,963	692,059	703,767	704,428	710,591	21

Table 11.4.2: Vehicle mileages by vehicle categories by homogeneous branches - motor gasoline vehicles^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2005								
1	A	Products of agriculture, forestry and fishing.....	326	258	30	19	13	5
2	B	Mining and quarrying.....	88	81	0	5	1	1
3	C	Manufactured products.....	4,680	4,480	0	142	42	15
4	D	Electricity, gas, steam and air conditioning.....	223	185	0	35	0	3
5	E	Water supply; sewerage, waste management and remediation services.....	1,246	1,179	0	46	12	9
6	F	Constructions and construction works.....	1,347	1,172	0	148	13	14
7	G	Wholesale and retail trade services; repair services of motor vehicles	6,484	5,911	0	404	140	29
8	H	Transportation and storage services.....	1,589	998	0	563	15	12
9	I	Accommodation and food services.....	517	497	0	15	4	1
10	J	Information and Communication services.....	1,572	1,493	0	48	18	13
11	K	Financial and insurance services.....	445	440	0	3	2	0
12	L	Real estate services.....	932	900	0	17	10	5
13	M	Professional, scientific and technical services.....	8,019	7,596	0	280	83	61
14	N	Administrative and support services.....	472	446	0	17	5	4
15	O	Public administration and defence services; compulsory social security services.....	1,097	895	1	79	18	103
16	P	Education services.....	99	90	0	3	5	1
17	Q	Human health and social work services.....	1,152	1,126	0	10	9	8
18	R-T	Other services.....	1,704	1,612	0	61	17	13
19		All homogeneous branches.....	31,993	29,362	33	1,895	407	297
20		Private households.....	379,598	361,696	0	545	16,896	461
21		All homogeneous branches and private households (residents concept) 2).....	411,591	391,058	33	2,440	17,303	758
2010								
22	A	Products of agriculture, forestry and fishing.....	232	149	56	11	11	5
23	B	Mining and quarrying.....	34	30	0	3	0	1
24	C	Manufactured products.....	3,438	3,323	1	84	21	10
25	D	Electricity, gas, steam and air conditioning.....	284	232	0	49	1	2
26	E	Water supply; sewerage, waste management and remediation services.....	1,036	953	0	57	10	17
27	F	Constructions and construction works.....	871	762	0	87	11	10
28	G	Wholesale and retail trade services; repair services of motor vehicles	5,635	5,140	0	392	77	25
29	H	Transportation and storage services.....	1,208	998	0	186	15	9
30	I	Accommodation and food services.....	399	383	0	12	3	0
31	J	Information and Communication services.....	846	804	0	29	9	5
32	K	Financial and insurance services.....	298	293	0	2	2	0
33	L	Real estate services.....	680	645	0	24	7	4
34	M	Professional, scientific and technical services.....	5,750	5,456	1	199	63	31
35	N	Administrative and support services.....	250	239	0	7	2	1
36	O	Public administration and defence services; compulsory social security services.....	788	608	1	74	17	88
37	P	Education services.....	91	81	0	3	7	0
38	Q	Human health and social work services.....	1,112	1,086	0	15	8	3
39	R-T	Other services.....	1,410	1,331	0	49	22	8
40		All homogeneous branches.....	24,362	22,514	61	1,282	285	219
41		Private households.....	343,571	326,902	0	622	16,001	46
42		All homogeneous branches and private households (residents concept) 2).....	367,932	349,416	61	1,904	16,286	265
2011								
43	A	Products of agriculture, forestry and fishing.....	231	144	61	10	11	6
44	B	Mining and quarrying.....	37	34	0	2	0	1
45	C	Manufactured products.....	3,570	3,459	0	80	21	9
46	D	Electricity, gas, steam and air conditioning.....	294	240	0	50	1	2
47	E	Water supply; sewerage, waste management and remediation services.....	987	908	0	53	10	15
48	F	Constructions and construction works.....	904	798	0	85	12	10
49	G	Wholesale and retail trade services; repair services of motor vehicles	5,653	5,170	0	381	78	24
50	H	Transportation and storage services.....	1,217	1,016	0	179	14	8
51	I	Accommodation and food services.....	407	391	0	12	3	0
52	J	Information and Communication services.....	810	770	0	27	9	4
53	K	Financial and insurance services.....	309	304	0	3	2	0
54	L	Real estate services.....	699	664	0	25	7	3
55	M	Professional, scientific and technical services.....	5,598	5,318	1	188	63	29
56	N	Administrative and support services.....	260	248	0	8	3	1
57	O	Public administration and defence services; compulsory social security services.....	756	583	1	72	17	83
58	P	Education services.....	94	83	0	3	8	0
59	Q	Human health and social work services.....	1,190	1,162	0	16	8	3
60	R-T	Other services.....	1,351	1,276	0	46	21	7
61		All homogeneous branches.....	24,367	22,568	65	1,240	288	205
62		Private households.....	343,768	326,733	0	611	16,381	43
63		All homogeneous branches and private households (residents concept) 2).....	368,134	349,301	65	1,850	16,669	248

Table 11.4.2: Vehicle mileages by vehicle categories by homogeneous branches - motor gasoline vehicles^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2012								
64	A	Products of agriculture, forestry and fishing.....	226	137	64	10	10	6
65	B	Mining and quarrying.....	35	32	0	2	0	1
66	C	Manufactured products.....	3,547	3,437	0	78	24	9
67	D	Electricity, gas, steam and air conditioning.....	302	246	0	52	2	2
68	E	Water supply; sewerage, waste management and remediation services.....	958	884	0	50	10	14
69	F	Constructions and construction works.....	948	843	0	82	13	9
70	G	Wholesale and retail trade services; repair services of motor vehicles	5,664	5,188	0	371	82	22
71	H	Transportation and storage services.....	1,243	1,047	0	174	14	8
72	I	Accommodation and food services.....	415	399	0	12	3	0
73	J	Information and Communication services.....	796	758	0	26	9	4
74	K	Financial and insurance services.....	324	319	0	3	2	0
75	L	Real estate services.....	729	693	0	25	7	3
76	M	Professional, scientific and technical services.....	5,602	5,333	1	178	63	26
77	N	Administrative and support services.....	268	256	0	8	3	1
78	O	Public administration and defence services; compulsory social security services.....	730	561	1	73	17	78
79	P	Education services.....	98	86	0	3	9	0
80	Q	Human health and social work services.....	1,234	1,206	0	16	8	3
81	R-T	Other services.....	1,328	1,257	0	44	20	6
82		All homogeneous branches.....	24,446	22,680	68	1,208	297	193
83		Private households.....	331,026	313,825	0	595	16,565	41
84		All homogeneous branches and private households (residents concept) 2).....	355,472	336,506	68	1,803	16,862	234
2013								
85	A	Products of agriculture, forestry and fishing.....	225	134	66	9	10	5
86	B	Mining and quarrying.....	34	31	0	2	0	1
87	C	Manufactured products.....	3,484	3,377	1	76	24	8
88	D	Electricity, gas, steam and air conditioning.....	296	242	0	51	2	2
89	E	Water supply; sewerage, waste management and remediation services.....	940	868	0	49	10	13
90	F	Constructions and construction works.....	930	828	0	80	13	9
91	G	Wholesale and retail trade services; repair services of motor vehicles	5,576	5,111	0	362	83	21
92	H	Transportation and storage services.....	1,219	1,027	0	169	14	7
93	I	Accommodation and food services.....	407	391	0	12	4	0
94	J	Information and Communication services.....	781	743	0	25	9	4
95	K	Financial and insurance services.....	317	312	0	3	2	0
96	L	Real estate services.....	715	680	0	25	7	3
97	M	Professional, scientific and technical services.....	5,495	5,232	1	174	64	25
98	N	Administrative and support services.....	264	252	0	8	3	1
99	O	Public administration and defence services; compulsory social security services.....	716	553	1	71	17	73
100	P	Education services.....	96	84	0	3	9	0
101	Q	Human health and social work services.....	1,228	1,200	0	16	8	3
102	R-T	Other services.....	1,303	1,234	0	43	20	6
103		All homogeneous branches.....	24,025	22,298	70	1,176	299	182
104		Private households.....	324,921	307,629	0	580	16,675	38
105		All homogeneous branches and private households (residents concept) 2).....	348,947	329,927	70	1,756	16,974	220

*) Including kilometrage under utilization of bio-ethanol.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

Table 11.4.3: Vehicle mileages by vehicle categories by homogeneous branches - gas-diesel oil vehicles^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks	Semi-trailer trucks, traction engine	Light duty vehicles	Other
2005								
1	A	Products of agriculture, forestry and fishing.....	4,962	427	197	3,786	494	58
2	B	Mining and quarrying.....	446	192	127	2	109	15
3	C	Manufactured products.....	13,670	9,150	1,467	49	2,811	192
4	D	Electricity, gas, steam and air conditioning.....	755	322	25	3	338	67
5	E	Water supply; sewerage, waste management and remediation services.....	7,198	2,186	3,958	13	873	168
6	F	Constructions and construction works.....	8,269	2,934	1,111	29	4,027	169
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	21,407	9,634	4,681	23	6,642	428
8	H	Transportation and storage services.....	29,535	3,477	14,827	27	8,580	2,625
9	I	Accommodation and food services.....	575	413	9	-	142	11
10	J	Information and Communication services.....	5,802	3,062	1,118	9	1,329	285
11	K	Financial and insurance services.....	720	678	17	2	20	4
12	L	Real estate services.....	2,085	1,507	95	5	394	84
13	M	Professional, scientific and technical services.....	14,786	9,764	229	42	4,116	636
14	N	Administrative and support services.....	1,430	792	195	19	347	77
15	O	Public administration and defence services; compulsory social security services.....	3,726	1,550	25	72	911	1,168
16	P	Education services.....	313	206	35	1	60	12
17	Q	Human health and social work services.....	2,015	1,798	6	1	114	95
18	R-T	Other services.....	10,377	6,412	731	30	2,779	425
19		All homogeneous branches.....	128,072	54,503	28,853	4,111	34,085	6,519
20		Private households.....	144,234	132,217	-	-	7,116	4,901
21		All homogeneous branches and private households (residents concept) 2).....	272,306	186,721	28,853	4,111	41,201	11,420
2010								
22	A	Products of agriculture, forestry and fishing.....	5,635	379	226	4,447	519	65
23	B	Mining and quarrying.....	362	125	121	2	100	14
24	C	Manufactured products.....	15,789	10,952	1,578	56	3,050	154
25	D	Electricity, gas, steam and air conditioning.....	1,472	790	53	3	579	48
26	E	Water supply; sewerage, waste management and remediation services.....	8,388	2,876	3,901	15	1,305	292
27	F	Constructions and construction works.....	8,449	2,817	1,076	37	4,391	128
28	G	Wholesale and retail trade services; repair services of motor vehicles.....	21,220	8,602	4,280	26	7,944	368
29	H	Transportation and storage services.....	29,842	5,906	16,168	32	5,074	2,662
30	I	Accommodation and food services.....	685	516	-	10	154	5
31	J	Information and Communication services.....	4,187	2,204	999	9	874	101
32	K	Financial and insurance services.....	1,156	1,123	-	2	29	2
33	L	Real estate services.....	2,489	1,710	-	7	689	84
34	M	Professional, scientific and technical services.....	19,942	13,701	210	50	5,494	487
35	N	Administrative and support services.....	912	628	53	20	192	19
36	O	Public administration and defence services; compulsory social security services.....	4,662	2,290	37	83	1,093	1,160
37	P	Education services.....	403	298	26	1	69	10
38	Q	Human health and social work services.....	2,291	2,011	12	5	216	47
39	R-T	Other services.....	11,664	7,661	605	32	3,062	305
40		All homogeneous branches.....	139,549	64,587	29,343	4,835	34,831	5,952
41		Private households.....	184,578	173,113	-	-	10,846	619
42		All homogeneous branches and private households (residents concept) 2).....	324,127	237,700	29,343	4,835	45,677	6,572
2011								
43	A	Products of agriculture, forestry and fishing.....	5,922	388	240	4,731	492	71
44	B	Mining and quarrying.....	591	368	116	7	87	14
45	C	Manufactured products.....	16,741	11,786	1,687	37	3,073	160
46	D	Electricity, gas, steam and air conditioning.....	1,663	861	53	4	693	52
47	E	Water supply; sewerage, waste management and remediation services.....	8,302	2,842	3,918	16	1,243	284
48	F	Constructions and construction works.....	9,293	3,222	1,191	16	4,732	131
49	G	Wholesale and retail trade services; repair services of motor vehicles.....	22,390	9,377	4,356	34	8,250	373
50	H	Transportation and storage services.....	30,927	6,194	16,841	15	5,224	2,653
51	I	Accommodation and food services.....	745	560	-	4	175	6
52	J	Information and Communication services.....	4,114	2,158	999	8	850	98
53	K	Financial and insurance services.....	1,288	1,233	-	2	51	2
54	L	Real estate services.....	2,534	1,747	-	7	695	85
55	M	Professional, scientific and technical services.....	19,794	13,682	210	53	5,372	477
56	N	Administrative and support services.....	1,042	733	56	3	226	24
57	O	Public administration and defence services; compulsory social security services.....	4,606	2,317	38	84	982	1,185
58	P	Education services.....	426	320	26	1	68	10
59	Q	Human health and social work services.....	2,466	2,165	13	6	227	55
60	R-T	Other services.....	11,427	7,512	604	34	2,980	298
61		All homogeneous branches.....	144,272	67,467	30,348	5,060	35,420	5,977
62		Private households.....	191,361	179,113	-	-	11,606	642
63		All homogeneous branches and private households (residents concept) 2).....	335,633	246,580	30,348	5,060	47,026	6,619

Table 11.4.3: Vehicle mileages by vehicle categories by homogeneous branches - gas-diesel oil vehicles^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks	Semi-trailer trucks, traction engine	Light duty vehicles	Other
2012								
64	A	Products of agriculture, forestry and fishing.....	6,116	393	217	4,923	503	79
65	B	Mining and quarrying.....	613	380	125	7	87	14
66	C	Manufactured products.....	17,590	12,496	1,684	38	3,207	164
67	D	Electricity, gas, steam and air conditioning.....	1,799	925	55	4	763	52
68	E	Water supply; sewerage, waste management and remediation services.....	7,982	2,828	3,611	16	1,245	281
69	F	Constructions and construction works.....	9,737	3,428	1,123	17	5,031	137
70	G	Wholesale and retail trade services; repair services of motor vehicles.....	23,077	9,933	4,279	35	8,463	369
71	H	Transportation and storage services.....	30,656	6,397	16,214	15	5,334	2,696
72	I	Accommodation and food services.....	802	604	-	4	188	6
73	J	Information and Communication services.....	4,021	2,147	918	9	850	96
74	K	Financial and insurance services.....	1,380	1,315	-	2	61	2
75	L	Real estate services.....	2,614	1,806	-	7	716	84
76	M	Professional, scientific and technical services.....	19,974	13,865	193	54	5,392	470
77	N	Administrative and support services.....	1,153	814	54	3	255	28
78	O	Public administration and defence services; compulsory social security services.....	4,696	2,361	39	86	1,005	1,205
79	P	Education services.....	443	338	24	1	70	10
80	Q	Human health and social work services.....	2,619	2,298	14	6	243	58
81	R-T	Other services.....	11,341	7,477	556	35	2,981	293
82		All homogeneous branches.....	146,612	69,805	29,106	5,261	36,395	6,044
83		Private households.....	202,344	189,892	-	-	11,795	656
84		All homogeneous branches and private households (residents concept) 2).....	348,956	259,698	29,106	5,261	48,190	6,701
2013								
85	A	Products of agriculture, forestry and fishing.....	6,336	385	237	5,118	516	80
86	B	Mining and quarrying.....	573	339	129	2	89	14
87	C	Manufactured products.....	17,408	12,199	1,721	40	3,285	163
88	D	Electricity, gas, steam and air conditioning.....	1,805	904	63	5	781	52
89	E	Water supply; sewerage, waste management and remediation services.....	7,918	2,762	3,586	16	1,275	279
90	F	Constructions and construction works.....	9,815	3,343	1,160	18	5,153	140
91	G	Wholesale and retail trade services; repair services of motor vehicles.....	22,960	9,691	4,194	36	8,668	372
92	H	Transportation and storage services.....	30,462	6,197	16,155	16	5,464	2,631
93	I	Accommodation and food services.....	796	593	-	4	193	6
94	J	Information and Communication services.....	3,976	2,100	901	9	871	95
95	K	Financial and insurance services.....	1,354	1,287	-	2	62	3
96	L	Real estate services.....	2,591	1,767	-	8	734	82
97	M	Professional, scientific and technical services.....	19,790	13,553	190	55	5,523	470
98	N	Administrative and support services.....	1,142	794	53	3	261	30
99	O	Public administration and defence services; compulsory social security services.....	4,694	2,314	38	87	1,030	1,226
100	P	Education services.....	436	330	24	1	72	10
101	Q	Human health and social work services.....	2,586	2,257	14	6	249	59
102	R-T	Other services.....	11,233	7,309	545	35	3,053	291
103		All homogeneous branches.....	145,875	68,123	29,011	5,461	37,279	6,001
104		Private households.....	215,769	203,020	-	-	12,082	667
105		All homogeneous branches and private households (residents concept) 2).....	361,644	271,143	29,011	5,461	49,361	6,668

*) Including kilometrage under utilization of bio-diesel.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

Table 11.4.4: Vehicle mileages of gas-diesel oil cars by homogeneous branches^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	477	385	349	258
2	B	Mining and quarrying.....	141	104	89	81
3	C	Manufactured products.....	5,343	4,564	4,346	4,480
4	D	Electricity, gas, steam and air conditioning.....	206	201	217	185
5	E	Water supply; sewerage, waste management and remediation services.....	1,562	1,314	1,235	1,179
6	F	Constructions and construction works.....	2,001	1,589	1,358	1,172
7	G	Wholesale and retail trade services; repair services of motor vehicles	8,033	6,853	6,595	5,911
8	H	Transportation and storage services.....	995	965	971	998
9	I	Accommodation and food services.....	673	580	539	497
10	J	Information and Communication services.....	1,972	1,651	1,516	1,493
11	K	Financial and insurance services.....	611	540	486	440
12	L	Real estate services.....	920	876	850	900
13	M	Professional, scientific and technical services.....	9,916	8,287	7,629	7,596
14	N	Administrative and support services.....	378	477	476	446
15	O	Public administration and defence services; compulsory social security services.....	1,098	1,036	949	895
16	P	Education services.....	107	95	93	90
17	Q	Human health and social work services.....	277	1,482	694	1,126
18	R-T	Other services.....	2,387	1,953	1,761	1,612
19		All homogeneous branches.....	37,096	32,951	30,151	29,362
20		Private households.....	394,149	385,374	382,669	361,696
21		All homogeneous branches and private households (residents concept) 4).....	431,246	418,325	412,820	391,058

*) Including mileages under utilization of bio-ethanol.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

Table 11.4.4: Vehicle mileages of gas-diesel oil cars by homogeneous branches^{*)}

mn km

2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
241	209	196	162	149	144	137	134	1
73	53	49	33	30	34	32	31	2
4,409	3,709	3,456	3,239	3,323	3,459	3,437	3,377	3
183	167	172	221	232	240	246	242	4
1,305	1,133	1,186	1,052	953	908	884	868	5
1,177	905	871	726	762	798	843	828	6
5,789	5,248	4,692	5,049	5,140	5,170	5,188	5,111	7
1,008	860	823	982	998	1,016	1,047	1,027	8
484	403	411	385	383	391	399	391	9
1,451	1,208	1,237	882	804	770	758	743	10
410	307	291	287	293	304	319	312	11
917	766	774	658	645	664	693	680	12
7,818	6,911	7,223	5,901	5,456	5,318	5,333	5,232	13
260	323	336	226	239	248	256	252	14
867	782	764	672	608	583	561	553	15
90	82	88	82	81	83	86	84	16
322	934	997	1,055	1,086	1,162	1,206	1,200	17
1,613	1,376	1,442	1,458	1,331	1,276	1,257	1,234	18
28,416	25,377	25,009	23,068	22,514	22,568	22,680	22,298	19
349,287	341,392	335,312	334,323	326,902	326,733	313,825	307,629	20
377,703	366,770	360,321	357,392	349,416	349,301	336,506	329,927	21

Table 11.4.5: Vehicle mileages of motor gasoline cars by homogeneous branches^{*)}

mn km

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	551	482	467	427
2	B	Mining and quarrying.....	232	202	206	192
3	C	Manufactured products.....	7,560	7,955	9,005	9,150
4	D	Electricity, gas, steam and air conditioning.....	230	255	314	322
5	E	Water supply; sewerage, waste management and remediation services.....	1,961	1,929	2,147	2,186
6	F	Constructions and construction works.....	3,370	3,089	3,121	2,934
7	G	Wholesale and retail trade services; repair services of motor vehicles	7,899	8,078	9,359	9,634
8	H	Transportation and storage services.....	2,521	2,807	3,271	3,477
9	I	Accommodation and food services.....	374	379	416	413
10	J	Information and Communication services.....	2,592	2,700	2,966	3,062
11	K	Financial and insurance services.....	406	491	608	678
12	L	Real estate services.....	822	1,105	1,382	1,507
13	M	Professional, scientific and technical services.....	8,441	8,336	9,125	9,764
14	N	Administrative and support services.....	459	638	795	792
15	O	Public administration and defence services; compulsory social security services.....	875	1,048	1,179	1,550
16	P	Education services.....	136	156	188	206
17	Q	Human health and social work services.....	212	1,974	1,016	1,798
18	R-T	Other services.....	6,154	5,900	6,411	6,412
19		All homogeneous branches.....	44,794	47,525	51,975	54,503
20		Private households.....	107,521	111,998	125,614	132,217
21		All homogeneous branches and private households (residents concept) 4).....	152,315	159,523	177,589	186,721

*) Including kilometrage under utilization of bio-gasoline.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

Table 11.4.5: Vehicle mileages of motor gasoline cars by homogeneous branches^{*)}

mn km

2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
444	403	387	364	379	388	393	385	1
197	172	164	319	125	368	380	339	2
10,407	10,369	9,850	10,493	10,952	11,786	12,496	12,199	3
367	384	428	698	790	861	925	904	4
2,805	2,847	3,093	2,960	2,876	2,842	2,828	2,762	5
3,151	2,917	3,067	2,628	2,817	3,222	3,428	3,343	6
10,649	10,435	9,515	8,234	8,602	9,377	9,933	9,691	7
4,074	4,164	4,157	5,480	5,906	6,194	6,397	6,197	8
458	440	469	471	516	560	604	593	9
3,412	3,311	3,486	2,286	2,204	2,158	2,147	2,100	10
828	859	922	1,024	1,123	1,233	1,315	1,287	11
1,757	1,723	1,692	1,692	1,710	1,747	1,806	1,767	12
11,761	12,208	13,164	13,978	13,701	13,682	13,865	13,553	13
539	774	838	513	628	733	814	794	14
1,923	1,921	2,068	2,136	2,290	2,317	2,361	2,314	15
240	252	273	272	298	320	338	330	16
561	1,421	1,594	1,784	2,011	2,165	2,298	2,257	17
7,422	7,495	8,153	7,926	7,661	7,512	7,477	7,309	18
60,994	62,097	63,320	63,259	64,587	67,467	69,805	68,123	19
144,206	154,749	153,310	162,988	173,113	179,113	189,892	203,020	20
205,200	216,846	216,630	226,247	237,700	246,580	259,698	271,143	21

Table 11.4.6a: Transport performance of trucks^{*)}
mn t-km

A) Transport on own account - trips with cargo load - actual transport performance

No.	18 keeper categories	2002	2003	2004	2005	2006	2007	2008
1	Agriculture, hunting and forestry.....	1,395	1,326	1,273	1,326	1,311	1,456	1,218
2	Fishing.....	-	-	-	-	-	-	-
3	Mining and quarrying.....	1,476	1,392	1,344	1,229	1,276	1,136	1,204
4	Manufacturing.....	10,077	9,481	9,577	9,216	9,294	8,916	9,236
5	Electricity, gas and water supply.....	132	120	136	130	134	165	106
6	Construction work.....	6,761	6,304	6,586	5,894	6,309	6,273	6,322
7	Wholesale and retail trade; repair of motor vehicles, motorcycles.....	15,738	15,725	15,515	14,600	14,853	13,856	13,475
8	Hotel and restaurant industries.....	-	-	-	-	43	-	32
9	Transport, storage and communication.....	3,404	3,558	2,999	3,027	2,594	3,875	7,887
10	Financial intermediation.....	166	95	114	68	68	68	68
11	Real estate, renting and business activities.....	975	1,462	1,546	1,690	2,316	1,981	1,846
12	including: rental services of passenger cars.....	411	539	551	699	835	723	539
13	Public administration and defence; compulsory social security.....	225	158	127	127	127	124	141
14	Education.....	-	-	-	-	-	-	-
15	Health and social work.....	-	-	-	-	-	-	-
16	Other community, social and personal services.....	23,297	20,489	20,789	19,805	21,493	19,599	19,791
17	Extra-territorial organizations and bodies.....	-	-	-	-	-	-	-
18	Employees and economically inactive population.....	5,695	4,772	4,747	4,207	5,168	4,182	3,989
19	Total.....	69,341	64,882	64,753	61,319	64,986	61,630	65,314

B) Commercial transport - trips with cargo load - actual transport performance

No.	18 keeper categories	2002	2003	2004	2005	2006	2007	2008
1	Agriculture, hunting and forestry.....	313	451	590	662	638	713	871
2	Fishing.....	-	-	-	-	-	-	-
3	Mining and quarrying.....	317	226	292	315	256	408	250
4	Manufacturing.....	1,862	2,069	2,149	2,087	2,286	2,803	2,927
5	Electricity, gas and water supply.....	-	-	-	-	-	-	-
6	Construction work.....	1,884	2,456	2,722	2,770	3,120	3,714	3,922
7	Wholesale and retail trade; repair of motor vehicles, motorcycles.....	10,154	12,019	12,141	12,648	13,769	15,711	15,778
8	Hotel and restaurant industries.....	-	-	-	-	-	-	-
9	Transport, storage and communication.....	138,480	145,081	153,294	156,807	165,776	169,499	167,569
10	Financial intermediation.....	-	-	-	-	-	-	-
11	Real estate, renting and business activities.....	3,026	5,389	7,260	7,469	9,684	11,994	10,750
12	including: rental services of passenger cars.....	2,301	3,958	5,229	5,162	6,944	9,115	7,533
13	Public administration and defence; compulsory social security.....	-	-	-	-	-	-	-
14	Education.....	-	-	-	-	-	-	-
15	Health and social work.....	-	-	-	-	-	-	-
16	Other community, social and personal services.....	35,161	34,009	34,885	38,294	41,165	47,849	46,018
17	Extra-territorial organizations and bodies.....	-	-	-	-	-	-	-
18	Employees and economically inactive population.....	23,390	23,995	26,288	27,351	28,001	28,968	27,955
19	Total.....	214,586	225,694	239,620	248,402	264,696	281,660	276,039

C) Good transport of German trucks total - trips with cargo load - actual transport performance

No.	18 keeper categories	2002	2003	2004	2005	2006	2007	2008
1	Agriculture, hunting and forestry.....	1,708	1,777	1,863	1,989	1,949	2,168	2,089
2	Fishing.....	-	-	-	-	-	-	-
3	Mining and quarrying.....	1,793	1,619	1,636	1,544	1,532	1,544	1,454
4	Manufacturing.....	11,939	11,550	11,726	11,303	11,580	11,720	12,163
5	Electricity, gas and water supply.....	132	120	136	130	134	165	106
6	Construction work.....	8,645	8,759	9,308	8,664	9,429	9,987	10,243
7	Wholesale and retail trade; repair of motor vehicles, motorcycles.....	25,893	27,744	27,656	27,247	28,622	29,568	29,253
8	Hotel and restaurant industries.....	-	-	-	-	43	-	32
9	Transport, storage and communication.....	141,884	148,638	156,293	159,834	168,370	173,374	183,528
10	Financial intermediation.....	166	95	114	68	68	68	68
11	Real estate, renting and business activities.....	4,000	6,851	8,806	9,159	12,000	13,975	4,524
12	including: rental services of passenger cars.....	2,711	4,497	5,781	5,861	7,779	9,838	8,072
13	Public administration and defence; compulsory social security.....	225	158	127	127	127	124	141
14	Education.....	-	-	-	-	-	-	-
15	Health and social work.....	-	-	-	-	-	-	-
16	Other community, social and personal services.....	58,458	54,498	55,674	58,099	62,659	67,448	65,809
17	Extra-territorial organizations and bodies.....	-	-	-	-	-	-	-
18	Employees and economically inactive population.....	29,085	28,767	31,036	31,558	33,169	33,150	31,944
19	Total.....	283,927	290,576	304,373	309,721	329,683	343,290	341,353

^{*)} Source: Kraftfahrtbundesamt (Federal Motor Transport Authority).

Table 11.4.6b: Transport performance of trucks^{*)}

mn t-km

A) Transport on own account - trips with cargo load - actual transport performance

No.	22 keeper categories	2009	2010	2011	2012	2013
1	Agriculture, forestry and fishing.....	1,512	1,254	1,315	1,041	1,049
2	Mining and quarrying.....	972	937	876	860	888
3	Manufacturing.....	8,777	8,312	8,475	7,966	7,961
4	Electricity, gas, steam and air conditioning supply.....	94	93	92	98	89
5	Water supply; sewerage, waste management.....	2,515	1,296	1,224	963	1,031
6	Construction.....	5,620	4,355	4,916	4,567	4,689
7	Wholesale and retail trade; repair of motor vehicles.....	12,958	10,890	10,808	10,698	10,035
8	Transportation and storage.....	6,841	5,023	5,287	4,914	4,890
9	Hotel and restaurant industries.....	-	-	-	-	-
10	Information and communication.....	87	-	-	-	-
11	Financial and insurance activities.....	-	-	-	-	-
12	Real estate activities.....	-	-	-	-	-
13	Professional, scientific and technical activities.....	-	-	-	-	-
14	Administrative and support service activities.....	1,622	1,399	1,538	1,491	1,548
15	Rental services of vehicles.....	-	-	-	-	-
16	Public administration and defence.....	123	111	101	105	99
17	Education.....	-	-	-	-	-
18	Human health and social work activities.....	45	-	-	-	-
19	Arts, entertainment and recreation services.....	-	-	-	-	-
20	Other service activities.....	15,158	11,102	10,823	9,782	9,433
21	Extra-territorial organizations and bodies.....	-	-	-	-	-
22	Employees and economically inactive population.....	2,842	2,281	2,298	2,051	2,025
23	All branches.....	59,167	47,051	47,751	44,535	43,738

B) Commercial transport - trips with cargo load - actual transport performance

No.	22 keeper categories	2009	2010	2011	2012	2013
1	Agriculture, forestry and fishing.....	1,002	1,153	1,182	1,188	1,397
2	Mining and quarrying.....	256	416	391	595	612
3	Manufacturing.....	2,520	3,996	4,612	5,113	5,277
4	Electricity, gas, steam and air conditioning supply.....	-	-	-	-	-
5	Water supply; sewerage, waste management.....	1,189	2,310	2,527	2,414	2,626
6	Construction.....	4,247	5,455	6,222	5,734	5,779
7	Wholesale and retail trade; repair of motor vehicles.....	13,330	16,951	18,464	17,569	17,494
8	Transportation and storage.....	153,688	160,124	167,178	161,719	162,383
9	Hotel and restaurant industries.....	-	-	-	-	-
10	Information and communication.....	292	217	237	205	230
11	Financial and insurance activities.....	-	-	-	-	-
12	Real estate activities.....	-	-	-	-	-
13	Professional, scientific and technical activities.....	-	-	-	-	-
14	Administrative and support service activities.....	8,305	10,079	10,474	9,640	9,476
15	Rental services of vehicles.....	-	-	-	-	-
16	Public administration and defence.....	-	156	148	182	134
17	Education.....	-	-	-	-	-
18	Human health and social work activities.....	-	-	-	-	-
19	Arts, entertainment and recreation services.....	-	-	-	-	-
20	Other service activities.....	39,160	39,530	39,099	35,340	34,512
21	Extra-territorial organizations and bodies.....	-	-	-	-	-
22	Employees and economically inactive population.....	24,072	25,212	25,060	22,339	21,518
23	All branches.....	248,060	265,598	275,592	262,036	261,438

C) Good transport german trucks total - trips with cargo load - actual transport performance

No.	22 keeper categories	2009	2010	2011	2012	2013
1	Agriculture, forestry and fishing.....	2,514	2,407	2,496	2,229	2,446
2	Mining and quarrying.....	1,228	1,352	1,267	1,454	1,500
3	Manufacturing.....	11,297	12,308	13,087	13,079	13,239
4	Electricity, gas, steam and air conditioning supply.....	94	93	92	98	89
5	Water supply; sewerage, waste management.....	3,704	3,606	3,750	3,377	3,657
6	Construction.....	9,867	9,809	11,138	10,301	10,468
7	Wholesale and retail trade; repair of motor vehicles.....	26,289	27,840	29,272	28,266	27,529
8	Transportation and storage.....	160,529	165,147	172,465	166,633	167,274
9	Hotel and restaurant industries.....	-	-	-	-	-
10	Information and communication.....	378	217	237	205	230
11	Financial and insurance activities.....	-	-	-	-	-
12	Real estate activities.....	-	-	-	-	-
13	Professional, scientific and technical activities.....	-	-	-	-	-
14	Administrative and support service activities.....	9,927	11,479	12,012	11,131	11,025
15	Rental services of vehicles.....	-	-	-	-	-
16	Public administration and defence.....	123	267	249	287	232
17	Education.....	-	-	-	-	-
18	Human health and social work activities.....	45	-	-	-	-
19	Arts, entertainment and recreation services.....	-	-	-	-	-
20	Other service activities.....	54,318	50,632	49,922	45,122	43,945
21	Extra-territorial organizations and bodies.....	-	-	-	-	-
22	Employees and economically inactive population.....	26,914	27,494	27,357	24,390	23,543
23	All branches.....	307,227	312,649	323,343	306,571	305,176

*) Source: Kraftfahrtbundesamt (Federal Motor Transport Authority).

Table 11.5.1: Energy consumption in road transport by homogeneous branches^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	1995	2000	2001 ²⁾	2002 ²⁾
1	A	Products of agriculture, forestry and fishing.....	49,057	45,076	44,690	44,084
2	B	Mining and quarrying.....	6,126	5,249	4,974	4,129
3	C	Manufactured products.....	72,344	73,033	74,268	70,040
4	D	Electricity, gas, steam and air conditioning.....	2,978	3,003	3,035	3,555
5	E	Water supply; sewerage, waste management and remediation services.....	71,893	73,851	76,075	65,906
6	F	Constructions and construction works.....	59,828	56,753	55,923	53,739
7	G	Wholesale and retail trade services; repair services of motor vehicles and motorcycles.....	131,690	141,247	142,873	137,981
8	H	Transportation and storage services.....	262,787	322,221	331,501	334,006
9	I	Accommodation and food services.....	4,053	4,096	4,277	4,001
10	J	Information and Communication services.....	37,729	43,015	43,965	39,452
11	K	Financial and insurance services.....	3,467	3,341	3,491	3,411
12	L	Real estate services.....	6,243	7,062	7,603	7,362
13	M	Professional, scientific and technical services.....	69,343	82,347	86,948	82,325
14	N	Administrative and support services.....	6,738	6,774	6,904	6,800
15	O	Public administration and defence services; compulsory social security services.....	22,773	23,477	24,051	22,685
16	P	Education services.....	1,110	1,308	1,393	1,565
17	Q	Human health and social work services.....	4,151	4,925	5,164	5,077
18	R-T	Other services.....	76,991	80,911	82,442	53,530
19		All homogeneous branches.....	889,302	977,687	999,578	939,648
20		Private households.....	1,392,266	1,383,990	1,402,440	1,449,923
21		All homogeneous branches and private households (residents concept) 4).....	2,281,567	2,361,678	2,402,018	2,389,570
22		Balance bunkering of fuels 5).....	-16,068	-4,242	-88,620	-96,887
23		All homogeneous branches and private households (domestic concept with biodiesel).....	2,268,507	2,381,988	2,346,954	2,292,683
24		Biodiesel.....	1,504	12,276	16,740	20,460
25		Bioethanol.....	-	-	-	-
26		All homogeneous branches and private households (domestic concept without biodiesel) 6).....	2,267,003	2,369,712	2,330,214	2,272,223

*) Including biodiesel consumption, including "unassigned consumption" (see general notes).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

5) Mileages of non-residents on the territory minus mileages of residents abroad.

6) Figures according the entries in the energy balance sheets for total road transport.

Table 11.5.1: Energy consumption in road transport total by homogeneous branches^{*)}

terajoule

2003	2004	2005	2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
45,240	46,831	48,170	49,603	50,882	51,583	54,832	55,779	58,816	60,726	63,289	1
3,423	3,374	3,130	3,087	2,857	2,713	3,790	3,931	4,034	4,293	4,230	2
67,879	68,322	66,306	68,590	66,849	64,739	64,950	68,435	71,120	73,448	73,649	3
3,709	4,091	3,957	4,239	4,423	4,644	5,755	6,533	7,296	7,819	7,924	4
59,574	60,274	61,352	68,557	71,076	71,246	67,830	63,655	61,569	57,606	57,184	5
50,348	48,519	44,810	46,564	45,817	46,131	43,175	44,739	48,412	49,664	50,614	6
134,907	137,076	132,972	137,816	138,792	133,087	125,120	131,195	133,175	133,493	133,524	7
340,720	353,251	352,936	373,983	375,440	370,281	338,094	353,323	357,962	350,628	350,927	8
3,786	3,661	3,366	3,395	3,161	3,283	3,073	3,293	3,454	3,636	3,634	9
38,954	38,544	36,589	34,677	35,392	36,023	26,250	24,781	23,929	22,823	22,613	10
3,384	3,414	3,302	3,506	3,333	3,399	3,480	3,792	4,187	4,467	4,430	11
8,835	9,811	10,280	11,026	10,700	10,812	10,176	10,291	10,422	10,718	10,744	12
76,739	75,249	75,564	81,202	81,277	84,891	85,707	83,562	81,990	82,053	82,227	13
8,080	8,646	8,237	6,029	7,599	7,782	3,609	4,238	4,543	4,883	4,910	14
22,457	22,287	22,648	23,051	22,920	23,526	23,998	24,433	24,009	24,324	24,603	15
1,519	1,582	1,594	1,682	1,745	1,810	1,655	1,703	1,746	1,778	1,764	16
5,619	6,109	6,378	6,556	6,992	7,647	8,514	9,302	9,955	10,458	10,458	17
49,362	49,093	46,821	49,495	49,380	51,551	49,743	47,967	46,536	45,703	45,766	18
924,536	940,137	928,409	973,059	978,634	975,148	919,752	940,953	953,156	948,519	952,490	19
1,431,838	1,451,599	1,409,276	1,367,287	1,358,775	1,325,784	1,347,807	1,351,686	1,365,953	1,347,354	1,370,085	20
2,356,375	2,391,736	2,337,685	2,340,346	2,337,409	2,300,932	2,267,559	2,292,639	2,319,109	2,295,873	2,322,575	21
-139,086	-167,095	-193,304	-184,660	-209,741	-213,540	-211,062	-213,789	-218,719	-212,175	-187,755	22
2,217,289	2,224,641	2,144,381	2,155,686	2,127,668	2,087,392	2,056,497	2,078,850	2,100,390	2,083,698	2,134,820	23
29,948	39,846	68,014	130,273	144,263	110,000	89,326	88,794	82,972	85,133	78,025	24
-	1,144	6,817	13,418	12,061	16,328	23,691	30,577	32,363	32,847	32,008	25
2,187,341	2,183,651	2,069,550	2,011,995	1,971,344	1,961,064	1,943,480	1,959,479	1,985,055	1,965,718	2,024,787	26

Table 11.5.2: Energy consumption of vehicles by fuel type^{*)}
terajoule

No.	Year	Total	Diesel engine		Gasoline engine ¹⁾			
			Diesel ²⁾	Biodiesel	Petrol	Bioethanol	Liquid gas (cars gas)	Natural gas
		All homogeneous branches and private households						
1	1995	2,281,705	937,406	1,504	1,342,658	-	138	-
2	1996	2,285,142	944,471	2,046	1,338,510	-	115	-
3	1997	2,293,993	952,193	3,652	1,338,042	-	106	-
4	1998	2,320,859	976,342	4,081	1,340,329	-	106	-
5	1999	2,409,509	1,057,990	5,370	1,346,049	-	100	-
6	2000	2,361,772	1,061,296	12,276	1,288,105	-	94	-
7	2001	2,402,192	1,120,891	16,740	1,264,463	-	98	-
1	2002	2,390,177	1,132,670	20,460	1,236,441	-	607	-
2	2003	2,357,069	1,133,150	29,948	1,193,277	-	694	-
3	2004	2,393,623	1,183,894	39,846	1,166,852	1,144	1,887	-
4	2005	2,340,042	1,170,206	68,014	1,092,648	6,817	2,357	-
5	2006	2,349,396	1,157,672	130,273	1,038,983	13,418	4,605	4,446
6	2007	2,352,197	1,185,979	144,263	995,106	12,061	8,942	5,845
7	2008	2,323,728	1,213,225	110,000	961,379	16,328	15,652	7,144
8	2009	2,299,844	1,218,208	89,326	936,334	23,691	23,842	8,443
9	2010	2,323,230	1,268,561	88,794	904,707	30,577	21,823	8,768
10	2011	2,351,493	1,301,253	82,972	902,521	32,363	23,613	8,771
11	2012	2,328,274	1,322,250	85,133	855,643	32,847	23,532	8,869
12	2013	2,351,526	1,373,793	78,025	838,749	32,008	23,077	5,874
		including: private households						
13	1995	1,399,790	257,605	294	1,141,774	-	117	-
14	1996	1,421,740	263,065	402	1,158,174	-	100	-
15	1997	1,422,376	253,712	691	1,167,881	-	93	-
16	1998	1,402,598	250,782	743	1,150,982	-	91	-
17	1999	1,430,081	270,469	972	1,158,555	-	86	-
18	2000	1,394,300	268,797	2,085	1,123,335	-	82	-
19	2001	1,413,049	295,174	2,770	1,115,018	-	86	-
20	2002	1,450,469	331,451	4,875	1,113,597	-	547	-
21	2003	1,432,470	339,320	7,357	1,085,161	-	631	-
22	2004	1,453,326	371,668	11,007	1,067,879	1,045	1,727	-
23	2005	1,411,440	379,877	19,742	1,003,405	6,252	2,164	-
24	2006	1,375,615	362,166	36,807	955,982	12,332	4,237	4,090
25	2007	1,372,475	382,713	42,921	921,957	11,184	8,285	5,416
26	2008	1,346,943	385,227	33,059	892,345	15,152	14,528	6,631
27	2009	1,377,882	425,345	28,153	872,248	22,060	22,210	7,865
28	2010	1,380,147	454,057	27,463	841,740	28,425	20,304	8,158
29	2011	1,396,084	469,848	26,250	839,777	30,078	21,971	8,161
30	2012	1,377,411	496,702	26,431	793,801	30,419	21,830	8,227
31	2013	1,396,940	537,608	24,784	778,058	29,635	21,406	5,449

*) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

1) Without bio-methane.

2) Including "unassigned consumption" (see general notes).

Table 11.5.3: Energy consumption by vehicle categories, gasoline engine^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2005								
1	A	Products of agriculture, forestry and fishing.....	992	693	176	76	18	30
2	B	Mining and quarrying.....	254	226	0	20	1	8
3	C	Manufactured products.....	13,142	12,421	2	575	56	88
4	D	Electricity, gas, steam and air conditioning.....	653	492	0	140	1	20
5	E	Water supply; sewerage, waste management and remediation services.....	3,488	3,232	1	186	16	53
6	F	Constructions and construction works.....	3,926	3,229	1	599	17	80
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	17,985	15,999	1	1,636	184	165
8	H	Transportation and storage services.....	5,105	2,733	1	2,281	20	70
9	I	Accommodation and food services.....	1,437	1,365	0	62	5	5
10	J	Information and communication services.....	4,391	4,099	0	196	23	73
11	K	Financial and insurance services.....	1,237	1,224	0	10	3	0
12	L	Real estate services.....	2,592	2,480	0	69	13	28
13	M	Professional, scientific and technical services.....	22,430	20,838	2	1,132	109	349
14	N	Administrative and support services.....	1,320	1,223	1	68	7	21
15	O	Public administration and defence services.....	3,337	2,393	3	322	24	595
16	P	Education services.....	269	246	0	13	7	3
17	Q	Human health and social work services.....	2,481	2,382	0	40	11	48
18	R-T	Other services.....	4,769	4,422	1	248	23	76
19		All homogeneous branches.....	89,809	79,698	191	7,674	535	1,710
20		Private households.....	1,009,657	982,573	-	2,207	22,228	2,650
21		All homogeneous branches and private households (residents concept) 2).....	1,099,466	1,062,271	191	9,881	22,763	4,359
22		Balance bunkering of fuels 3).....	-100,271	-100,271	-	-	-	-
23		All homogeneous branches and private households (domestic concept)	999,194	961,999	191	9,881	22,763	4,359
2010								
24	A	Products of agriculture, forestry and fishing.....	782	385	311	41	14	30
25	B	Mining and quarrying.....	117	101	0	10	0	5
26	C	Manufactured products.....	9,050	8,651	4	315	27	54
27	D	Electricity, gas, steam and air conditioning.....	793	596	0	182	2	12
28	E	Water supply; sewerage, waste management and remediation services.....	2,802	2,484	1	212	13	92
29	F	Constructions and construction works.....	2,394	1,995	3	327	14	55
30	G	Wholesale and retail trade services; repair services of motor vehicles.....	14,896	13,184	2	1,473	98	140
31	H	Transportation and storage services.....	3,383	2,614	2	699	18	49
32	I	Accommodation and food services.....	1,055	1,003	1	46	4	2
33	J	Information and communication services.....	2,248	2,103	1	108	11	25
34	K	Financial and insurance services.....	784	771	0	9	2	1
35	L	Real estate services.....	1,809	1,688	0	91	9	20
36	M	Professional, scientific and technical services.....	15,281	14,277	4	748	80	173
37	N	Administrative and support services.....	661	625	1	26	3	6
38	O	Public administration and defence services.....	2,340	1,544	6	278	21	491
39	P	Education services.....	229	208	0	10	9	2
40	Q	Human health and social work services.....	2,757	2,671	0	57	10	19
41	R-T	Other services.....	3,738	3,482	2	184	28	43
42		All homogeneous branches.....	65,118	58,383	339	4,816	364	1,218
43		Private households.....	870,166	847,202	-	2,337	20,373	253
44		All homogeneous branches and private households (residents concept) 2).....	935,284	905,584	339	7,153	20,737	1,471
45		Balance bunkering of fuels 3).....	-113,291	-113,291	-	-	-	-
46		All homogeneous branches and private households (domestic concept)	821,993	792,294	339	7,153	20,737	1,471
2011								
47	A	Products of agriculture, forestry and fishing.....	794	372	339	39	13	31
48	B	Mining and quarrying.....	104	89	0	9	0	5
49	C	Manufactured products.....	9,407	9,026	3	302	27	50
50	D	Electricity, gas, steam and air conditioning.....	820	620	0	187	2	12
51	E	Water supply; sewerage, waste management and remediation services.....	2,668	2,369	1	201	12	84
52	F	Constructions and construction works.....	2,477	2,089	1	318	16	54
53	G	Wholesale and retail trade services; repair services of motor vehicles.....	14,899	13,235	2	1,432	99	131
54	H	Transportation and storage services.....	3,395	2,660	1	671	18	45
55	I	Accommodation and food services.....	1,076	1,023	0	46	4	2
56	J	Information and communication services.....	2,152	2,016	1	102	11	23
57	K	Financial and insurance services.....	815	801	0	10	3	1
58	L	Real estate services.....	1,858	1,737	1	93	9	19
59	M	Professional, scientific and technical services.....	14,874	13,926	4	706	80	158
60	N	Administrative and support services.....	686	648	0	28	3	6
61	O	Public administration and defence services.....	2,240	1,480	6	272	22	461
62	P	Education services.....	236	214	0	10	10	2
63	Q	Human health and social work services.....	2,945	2,856	0	60	10	19
64	R-T	Other services.....	3,583	3,341	2	173	27	39
65		All homogeneous branches.....	65,028	58,503	363	4,657	367	1,139
66		Private households.....	869,855	846,476	-	2,294	20,846	239
67		All homogeneous branches and private households (residents concept) 2).....	934,883	904,979	363	6,951	21,212	1,378
68		Balance bunkering of fuels 3).....	-114,718	-114,718	-	-	-	-
69		All homogeneous branches and private households (domestic concept)	820,166	790,261	363	6,951	21,212	1,378

Table 11.5.3: Energy consumption by vehicle categories, gasoline engine^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2012								
70	A	Products of agriculture, forestry and fishing.....	784	350	353	37	13	31
71	B	Mining and quarrying.....	96	83	1	7	0	4
72	C	Manufactured products.....	9,198	8,826	3	292	30	48
73	D	Electricity, gas, steam and air conditioning.....	833	624	0	196	2	11
74	E	Water supply; sewerage, waste management and remediation services.....	2,552	2,272	1	189	12	77
75	F	Constructions and construction works.....	2,554	2,176	1	309	16	51
76	G	Wholesale and retail trade services; repair services of motor vehicles.....	14,715	13,090	2	1,395	105	122
77	H	Transportation and storage services.....	3,416	2,699	1	654	18	44
78	I	Accommodation and food services.....	1,080	1,027	0	47	4	1
79	J	Information and communication services.....	2,083	1,954	1	96	11	21
80	K	Financial and insurance services.....	840	826	0	10	3	1
81	L	Real estate services.....	1,908	1,786	1	95	9	18
82	M	Professional, scientific and technical services.....	14,656	13,755	4	670	81	146
83	N	Administrative and support services.....	699	659	0	30	4	6
84	O	Public administration and defence services.....	2,140	1,403	6	275	22	433
85	P	Education services.....	240	217	0	10	11	2
86	Q	Human health and social work services.....	3,007	2,916	0	62	10	18
87	R-T	Other services.....	3,471	3,242	2	165	26	36
88		All homogeneous branches.....	64,269	57,903	377	4,537	379	1,072
89		Private households.....	824,221	800,614	-	2,236	21,145	225
90		All homogeneous branches and private households (residents concept) 2).....	888,489	858,517	377	6,773	21,525	1,297
91		Balance bunkering of fuels 3).....	-113,643	-113,643	-	-	-	-
92		All homogeneous branches and private households (domestic concept)	774,847	744,875	377	6,773	21,525	1,297
2013								
93	A	Products of agriculture, forestry and fishing.....	787	342	367	36	13	29
94	B	Mining and quarrying.....	93	81	0	7	0	4
95	C	Manufactured products.....	9,023	8,661	3	284	30	45
96	D	Electricity, gas, steam and air conditioning.....	816	612	0	190	2	11
97	E	Water supply; sewerage, waste management and remediation services.....	2,498	2,228	1	184	13	73
98	F	Constructions and construction works.....	2,503	2,136	1	301	17	48
99	G	Wholesale and retail trade services; repair services of motor vehicles.....	14,462	12,880	3	1,358	106	115
100	H	Transportation and storage services.....	3,343	2,645	1	637	18	42
101	I	Accommodation and food services.....	1,057	1,006	0	45	5	1
102	J	Information and communication services.....	2,040	1,915	1	94	11	20
103	K	Financial and insurance services.....	822	809	0	10	3	1
104	L	Real estate services.....	1,869	1,750	1	92	10	17
105	M	Professional, scientific and technical services.....	14,355	13,479	4	652	82	138
106	N	Administrative and support services.....	685	646	0	30	4	6
107	O	Public administration and defence services.....	2,086	1,382	6	268	22	408
108	P	Education services.....	236	213	0	10	11	2
109	Q	Human health and social work services.....	2,989	2,901	0	60	11	17
110	R-T	Other services.....	3,400	3,177	3	160	26	34
111		All homogeneous branches.....	63,064	56,860	391	4,418	384	1,010
112		Private households.....	807,693	783,900	-	2,177	21,404	212
113		All homogeneous branches and private households (residents concept) 2).....	870,756	840,760	391	6,596	21,788	1,222
114		Balance bunkering of fuels 3).....	-97,599	-97,599	-	-	-	-
115		All homogeneous branches and private households (domestic concept)	773,158	743,161	391	6,596	21,788	1,222

*) Including energy consumption of bioethanol.

1) Classification of products by activity (CPA) in the European Community (2008 version).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.5.4: Energy consumption by vehicle categories, diesel engine^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks, Semi-trailer trucks ²⁾	Traction engine	Light duty vehicles	Other, buses
2005								
1	A	Products of agriculture, forestry and fishing.....	44,840	1,071	40,869	2,381	18	500
2	B	Mining and quarrying.....	1,163	480	23	528	1	132
3	C	Manufactured products.....	38,496	22,646	526	13,560	56	1,708
4	D	Electricity, gas, steam and air conditioning.....	3,099	791	31	1,630	1	646
5	E	Water supply; sewerage, waste management and remediation services.....	11,399	5,439	141	4,213	16	1,591
6	F	Constructions and construction works.....	28,610	7,374	310	19,422	17	1,488
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	60,147	23,758	244	32,034	184	3,928
8	H	Transportation and storage services.....	78,416	8,673	290	41,383	20	28,052
9	I	Accommodation and food services.....	1,829	1,043	-	684	5	97
10	J	Information and communication services.....	16,924	7,621	96	6,409	23	2,775
11	K	Financial and insurance services.....	1,847	1,692	17	95	3	41
12	L	Real estate services.....	6,493	3,734	53	1,900	13	793
13	M	Professional, scientific and technical services.....	50,509	24,293	454	19,850	109	5,803
14	N	Administrative and support services.....	4,599	1,971	204	1,674	7	743
15	O	Public administration and defence services.....	19,181	3,885	774	4,392	24	10,106
16	P	Education services.....	923	507	7	291	7	112
17	Q	Human health and social work services.....	3,837	2,436	13	548	11	829
18	R-T	Other services.....	33,583	15,959	320	13,404	23	3,877
19		All homogeneous branches.....	405,895	133,370	44,370	164,398	535	63,221
20		Private households.....	421,847	323,471	-	34,319	22,228	41,829
21		All homogeneous branches and private households (residents concept) 3).....	827,742	456,841	44,370	198,717	22,763	105,050
22		Balance bunkering of fuels 4).....	-93,033	-30,481	-40,377	-	-22,175	-
23		All homogeneous branches and private households (domestic concept)	734,710	426,360	3,993	198,717	588	105,050
2010								
24	A	Products of agriculture, forestry and fishing.....	54,997	928	2,916	47,996	2,603	554
25	B	Mining and quarrying.....	3,814	768	2,401	20	503	121
26	C	Manufactured products.....	59,385	26,482	15,627	601	15,311	1,363
27	D	Electricity, gas, steam and air conditioning.....	5,741	1,902	452	32	2,905	449
28	E	Water supply; sewerage, waste management and remediation services.....	60,853	6,977	44,558	159	6,549	2,610
29	F	Constructions and construction works.....	42,345	6,867	11,952	396	22,046	1,085
30	G	Wholesale and retail trade services; repair services of motor vehicles.....	116,299	20,816	51,977	284	39,880	3,343
31	H	Transportation and storage services.....	349,941	14,354	282,280	343	25,473	27,491
32	I	Accommodation and food services.....	2,238	1,271	39	103	775	49
33	J	Information and communication services.....	22,533	5,363	11,750	98	4,387	934
34	K	Financial and insurance services.....	3,008	2,742	83	16	146	21
35	L	Real estate services.....	8,483	4,163	-	76	3,457	786
36	M	Professional, scientific and technical services.....	68,281	33,345	2,475	541	27,581	4,340
37	N	Administrative and support services.....	3,577	1,520	698	218	963	178
38	O	Public administration and defence services.....	22,093	5,579	266	894	5,485	9,870
39	P	Education services.....	1,474	717	309	9	344	95
40	Q	Human health and social work services.....	6,544	4,919	66	58	1,083	419
41	R-T	Other services.....	44,229	18,648	7,112	343	15,371	2,754
42		All homogeneous branches.....	875,835	157,363	434,961	52,187	174,862	56,462
43		Private households.....	481,520	421,739	-	-	54,449	5,332
44		All homogeneous branches and private households (residents concept) 3).....	1,357,355	579,102	434,961	52,187	229,311	61,794
45		Balance bunkering of fuels 4).....	-100,498	-32,273	-49,138	-	-19,087	-
46		All homogeneous branches and private households (domestic concept)	1,256,857	546,828	385,822	52,187	210,224	61,794
2011								
47	A	Products of agriculture, forestry and fishing.....	58,022	946	2,952	51,067	2,452	605
48	B	Mining and quarrying.....	3,930	880	2,424	74	436	117
49	C	Manufactured products.....	61,713	28,346	16,237	397	15,317	1,416
50	D	Electricity, gas, steam and air conditioning.....	6,476	2,063	437	41	3,453	482
51	E	Water supply; sewerage, waste management and remediation services.....	58,902	6,862	43,141	170	6,196	2,533
52	F	Constructions and construction works.....	45,936	7,799	13,260	177	23,590	1,110
53	G	Wholesale and retail trade services; repair services of motor vehicles.....	118,276	22,568	50,831	362	41,122	3,392
54	H	Transportation and storage services.....	354,567	14,975	285,988	163	26,041	27,399
55	I	Accommodation and food services.....	2,378	1,371	38	44	872	53
56	J	Information and communication services.....	21,777	5,223	11,316	90	4,239	908
57	K	Financial and insurance services.....	3,372	2,998	83	17	252	21
58	L	Real estate services.....	8,564	4,233	-	76	3,465	789
59	M	Professional, scientific and technical services.....	67,116	33,141	2,383	567	26,779	4,246
60	N	Administrative and support services.....	3,857	1,761	714	27	1,126	229
61	O	Public administration and defence services.....	21,769	5,623	260	906	4,895	10,086
62	P	Education services.....	1,509	767	298	10	340	95
63	Q	Human health and social work services.....	7,010	5,263	65	62	1,134	485
64	R-T	Other services.....	42,954	18,199	6,849	363	14,853	2,689
65		All homogeneous branches.....	888,128	163,018	437,277	54,614	176,561	56,657
66		Private households.....	496,098	432,720	-	-	57,854	5,524
67		All homogeneous branches and private households (residents concept) 3).....	1,384,225	595,738	437,277	54,614	234,415	62,181
68		Balance bunkering of fuels 4).....	-104,001	-25,102	-57,058	-	-21,841	-
69		All homogeneous branches and private households (domestic concept)	1,280,224	570,636	380,218	54,614	212,575	62,181

Table 11.5.4: Energy consumption by vehicle categories, diesel engine^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks, Semi-trailer trucks ²⁾	Traction engine	Light duty vehicles	Other, buses
2012								
70	A	Products of agriculture, forestry and fishing.....	59,943	958	2,660	53,142	2,509	673
71	B	Mining and quarrying.....	4,197	911	2,655	76	434	120
72	C	Manufactured products.....	64,251	30,087	16,311	407	15,984	1,461
73	D	Electricity, gas, steam and air conditioning.....	6,986	2,217	442	44	3,802	481
74	E	Water supply; sewerage, waste management and remediation services.....	55,054	6,829	39,340	174	6,206	2,505
75	F	Constructions and construction works.....	47,110	8,307	12,376	186	25,077	1,164
76	G	Wholesale and retail trade services; repair services of motor vehicles.....	118,778	23,921	48,973	373	42,180	3,332
77	H	Transportation and storage services.....	347,212	15,493	277,121	167	26,587	27,843
78	I	Accommodation and food services.....	2,557	1,481	38	45	939	53
79	J	Information and communication services.....	20,740	5,200	10,323	93	4,238	886
80	K	Financial and insurance services.....	3,628	3,202	84	17	302	21
81	L	Real estate services.....	8,810	4,382	-	81	3,571	776
82	M	Professional, scientific and technical services.....	67,397	33,591	2,174	583	26,873	4,176
83	N	Administrative and support services.....	4,184	1,959	668	31	1,269	258
84	O	Public administration and defence services.....	22,184	5,742	262	923	5,010	10,247
85	P	Education services.....	1,538	811	272	11	349	96
86	Q	Human health and social work services.....	7,451	5,597	67	65	1,213	509
87	R-T	Other services.....	42,232	18,113	6,248	373	14,856	2,642
88		All homogeneous branches.....	884,250	168,801	420,015	56,791	181,399	57,245
89		Private households.....	523,133	458,700	-	-	58,790	5,643
90		All homogeneous branches and private households (residents concept) 3).....	1,407,383	627,500	420,015	56,791	240,189	62,888
91		Balance bunkering of fuels 4).....	-98,532	-21,516	-55,682	-	-21,334	-
92		All homogeneous branches and private households (domestic concept)	1,308,851	605,984	364,332	56,791	218,855	62,888
2013								
93	A	Products of agriculture, forestry and fishing.....	62,502	950	2,928	55,348	2,594	682
94	B	Mining and quarrying.....	4,137	820	2,722	24	449	123
95	C	Manufactured products.....	64,626	29,693	16,536	431	16,523	1,443
96	D	Electricity, gas, steam and air conditioning.....	7,108	2,190	448	54	3,930	486
97	E	Water supply; sewerage, waste management and remediation services.....	54,686	6,742	38,871	175	6,415	2,482
98	F	Constructions and construction works.....	48,110	8,192	12,616	195	25,922	1,186
99	G	Wholesale and retail trade services; repair services of motor vehicles.....	119,062	23,594	48,123	388	43,601	3,357
100	H	Transportation and storage services.....	347,584	15,181	277,537	171	27,483	27,212
101	I	Accommodation and food services.....	2,576	1,473	37	45	971	51
102	J	Information and communication services.....	20,573	5,143	10,084	95	4,381	870
103	K	Financial and insurance services.....	3,608	3,170	87	17	313	22
104	L	Real estate services.....	8,874	4,336	-	85	3,691	763
105	M	Professional, scientific and technical services.....	67,872	33,208	2,124	596	27,778	4,166
106	N	Administrative and support services.....	4,225	1,933	663	34	1,312	283
107	O	Public administration and defence services.....	22,517	5,691	263	939	5,178	10,447
108	P	Education services.....	1,528	799	265	12	360	92
109	Q	Human health and social work services.....	7,469	5,561	68	68	1,253	518
110	R-T	Other services.....	42,366	17,905	6,104	383	15,357	2,617
111		All homogeneous branches.....	889,426	166,581	419,476	59,059	187,511	56,799
112		Private households.....	562,392	495,880	-	-	60,771	5,742
113		All homogeneous branches and private households (residents concept) 3).....	1,451,819	662,461	419,476	59,059	248,282	62,541
114		Balance bunkering of fuels 4).....	-90,156	-10,778	-57,442	-	-21,935	-
115		All homogeneous branches and private households (domestic concept)	1,361,662	651,682	362,034	59,059	226,347	62,541

*) Including energy consumption of biodiesel.

1) Classification of products by activity (CPA) in the European Community (2008 version).

2) Including "unassigned consumption" (see general notes).

3) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

4) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.5.5: Energy consumption of motor gasoline cars by homogeneous branches^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	1,339	1,105	978	693
2	B	Mining and quarrying.....	419	317	265	226
3	C	Manufactured products.....	15,824	13,848	12,856	12,421
4	D	Electricity, gas, steam and air conditioning.....	573	572	604	492
5	E	Water supply; sewerage, waste management and remediation services.....	4,558	3,913	3,595	3,232
6	F	Constructions and construction works.....	5,983	4,930	4,096	3,229
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	23,063	20,058	18,813	15,999
8	H	Transportation and storage services.....	2,889	2,870	2,824	2,733
9	I	Accommodation and food services.....	1,963	1,726	1,568	1,365
10	J	Information and communication services.....	5,769	4,931	4,429	4,099
11	K	Financial and insurance services.....	1,799	1,629	1,433	1,224
12	L	Real estate services.....	2,740	2,651	2,515	2,480
13	M	Professional, scientific and technical services.....	28,979	24,716	22,252	20,838
14	N	Administrative and support services.....	1,101	1,420	1,386	1,223
15	O	Public administration and defence services.....	3,065	2,871	2,604	2,393
16	P	Education services.....	311	281	268	246
17	Q	Human health and social work services.....	2,490	2,445	2,442	2,382
18	R-T	Other services.....	6,971	5,820	5,132	4,422
19		All homogeneous branches.....	109,838	96,104	88,061	79,698
20		Private households.....	1,086,790	1,058,029	1,041,597	982,573
21		All homogeneous branches and private households (residents concept) 4).....	1,196,627	1,154,133	1,129,658	1,062,271
22		Balance bunkering of fuels 5).....	-70,060	-84,288	-94,132	-100,271
23		All homogeneous branches and private households (domestic concept)	1,126,568	1,069,845	1,035,526	961,999

*) Including energy consumption of bioethanol.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

5) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.5.5: Energy consumption of motor gasoline cars by homogeneous branches^{*)}

terajoule

2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
622	539	494	413	385	372	350	342	1
189	136	124	109	101	89	83	81	2
11,436	9,564	8,684	8,280	8,651	9,026	8,826	8,661	3
469	426	430	559	596	620	624	612	4
3,370	2,905	2,969	2,684	2,484	2,369	2,272	2,228	5
2,885	2,269	2,112	1,839	1,995	2,089	2,176	2,136	6
14,875	13,404	11,698	12,818	13,184	13,235	13,090	12,880	7
2,600	2,204	2,060	2,518	2,614	2,660	2,699	2,645	8
1,253	1,039	1,036	989	1,003	1,023	1,027	1,006	9
3,746	3,098	3,098	2,257	2,103	2,016	1,954	1,915	10
1,066	794	732	738	771	801	826	809	11
2,365	1,962	1,936	1,683	1,688	1,737	1,786	1,750	12
20,189	17,713	18,084	15,100	14,277	13,926	13,755	13,479	13
672	827	842	577	625	648	659	646	14
2,219	1,984	1,901	1,687	1,544	1,480	1,403	1,382	15
232	210	219	208	208	214	217	213	16
2,334	2,315	2,423	2,575	2,671	2,856	2,916	2,901	17
4,166	3,527	3,610	3,730	3,482	3,341	3,242	3,177	18
74,687	64,917	62,454	58,764	58,383	58,503	57,903	56,860	19
943,133	911,650	885,861	871,455	847,202	846,476	800,614	783,900	20
1,017,820	976,566	948,315	930,219	905,584	904,979	858,517	840,760	21
-108,149	-102,124	-107,377	-107,107	-113,291	-114,718	-113,643	-97,599	22
909,671	874,442	840,937	823,113	792,294	790,261	744,875	743,161	23

Table 11.5.6: Energy consumption of gas-diesel oil cars by homogeneous branches^{*)}

terajoule

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	1,383	1,245	1,183	1,071
2	B	Mining and quarrying.....	582	521	520	480
3	C	Manufactured products.....	18,765	20,409	22,556	22,646
4	D	Electricity, gas, steam and air conditioning.....	563	650	780	791
5	E	Water supply; sewerage, waste management and remediation services.....	4,893	4,964	5,403	5,439
6	F	Constructions and construction works.....	8,506	8,081	7,956	7,374
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	19,596	20,708	23,410	23,758
8	H	Transportation and storage services.....	6,360	7,258	8,269	8,673
9	I	Accommodation and food services.....	949	986	1,062	1,043
10	J	Information and communication services.....	6,485	6,958	7,471	7,621
11	K	Financial and insurance services.....	1,010	1,263	1,530	1,692
12	L	Real estate services.....	2,051	2,839	3,469	3,734
13	M	Professional, scientific and technical services.....	21,075	21,456	22,961	24,293
14	N	Administrative and support services.....	1,145	1,643	2,000	1,971
15	O	Public administration and defence services.....	2,218	2,643	2,967	3,885
16	P	Education services.....	339	401	470	507
17	Q	Human health and social work services.....	1,536	1,876	2,222	2,436
18	R-T	Other services.....	15,364	15,187	16,136	15,959
19		All homogeneous branches.....	112,822	119,088	130,366	133,370
20		Private households.....	264,764	273,877	307,475	323,471
21		All homogeneous branches and private households (residents concept) 4).....	377,587	392,965	437,840	456,841
22		Balance bunkering of fuels 5).....	-17,930	-26,895	-26,894	-30,481
23		All homogeneous branches and private households (domestic concept)	359,657	366,070	410,946	426,360

*) Including energy consumption of biodiesel.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) New classification of keeper categories from 01.01.2009 onwards.

3) Preliminary results.

4) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

5) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.5.6: Energy consumption of gas-diesel oil cars by homogeneous branches^{*)}

terajoule

2006	2007	2008 ²⁾	2009 ²⁾	2010	2011 ³⁾	2012 ³⁾	2013 ³⁾	No.
1,090	1,001	951	889	928	946	958	950	1
480	426	400	762	768	880	911	820	2
25,092	25,449	23,867	25,291	26,482	28,346	30,087	29,693	3
875	933	1,028	1,675	1,902	2,063	2,217	2,190	4
6,815	7,002	7,525	7,161	6,977	6,862	6,829	6,742	5
7,675	7,238	7,500	6,403	6,867	7,799	8,307	8,192	6
25,577	25,543	23,008	19,855	20,816	22,568	23,921	23,594	7
9,900	10,210	10,064	13,243	14,354	14,975	15,493	15,181	8
1,132	1,095	1,155	1,158	1,271	1,371	1,481	1,473	9
8,285	8,134	8,467	5,544	5,363	5,223	5,200	5,143	10
2,018	2,119	2,243	2,487	2,742	2,998	3,202	3,170	11
4,244	4,217	4,094	4,104	4,163	4,233	4,382	4,336	12
28,576	30,016	32,022	33,900	33,345	33,141	33,591	33,208	13
1,311	1,904	2,038	1,235	1,520	1,761	1,959	1,933	14
4,720	4,747	5,044	5,182	5,579	5,623	5,742	5,691	15
576	615	659	655	717	767	811	799	16
3,142	3,489	3,879	4,342	4,919	5,263	5,597	5,561	17
18,043	18,436	19,841	19,227	18,648	18,199	18,113	17,905	18
149,553	152,572	153,786	153,114	157,363	163,018	168,801	166,581	19
354,556	380,080	373,944	395,681	421,739	432,720	458,700	495,880	20
504,109	532,651	527,729	548,795	579,102	595,738	627,500	662,461	21
-39,445	-46,617	-43,031	-32,274	-32,273	-25,102	-21,516	-10,778	22
464,664	486,034	484,698	516,522	546,828	570,636	605,984	651,682	23

Table 11.6.1: CO₂ emissions in road transport by fuel type^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004
1	A	Products of agriculture, forestry and fishing.....	3,251	3,333	3,448
2	B	Mining and quarrying.....	299	245	240
3	C	Manufactured products.....	5,079	4,890	4,892
4	D	Electricity, gas, steam and air conditioning.....	259	269	295
5	E	Water supply; sewerage, waste management and remediation services.....	4,747	4,240	4,255
6	F	Constructions and construction works.....	3,908	3,636	3,483
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	9,989	9,687	9,780
8	H	Transportation and storage services.....	24,172	24,419	25,135
9	I	Accommodation and food services.....	290	273	263
10	J	Information and communication services.....	2,854	2,793	2,745
11	K	Financial and insurance services.....	247	244	244
12	L	Real estate services.....	534	637	704
13	M	Professional, scientific and technical services.....	5,981	5,554	5,422
14	N	Administrative and support services.....	492	581	619
15	O	Public administration and defence services.....	1,662	1,642	1,626
16	P	Education services.....	113	109	113
17	Q	Human health and social work services.....	368	406	440
18	R-T	Other services.....	3,892	3,566	3,525
19		All homogeneous branches.....	68,135	66,528	67,231
20		Private households.....	104,706	103,241	104,391
21		All homogeneous branches and private households (residents concept) 2).....	172,841	169,769	171,621
22		Balance bunkering of fuels 3).....	-7,030	-10,124	-12,177
23		All homogeneous branches and private households (domestic concept) 4).....	165,812	159,645	159,445
24		Biodiesel.....	1,449	2,120	2,821
25		Bioethanol.....	-	-	82
26		All homogeneous branches and private households (domestic concept including biodiesel).....	167,260	161,766	162,348

*) Without emissions of biodiesel, including "unassigned consumption" (see general notes).

Further tables for CO₂ emissions cf. "tables on EEA" part 3 (Air emissions).

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

4) Figures according data from the national greenhouse gas inventory of the Federal Environmental Agency for CO₂ emissions in road transport (diesel oil and gasoline together).

Table 11.6.1: CO₂ emissions in road transport by fuel type^{*)}

1,000 tonnes

2005	2006	2007	2008	2009	2010	2011	2012	2013	No.
3,537	3,623	3,713	3,779	4,020	4,091	4,319	4,461	4,651	1
217	202	185	181	257	266	275	291	288	2
4,652	4,622	4,466	4,420	4,491	4,737	4,943	5,100	5,146	3
281	293	304	325	404	460	516	554	564	4
4,194	4,371	4,488	4,690	4,562	4,279	4,173	3,882	3,887	5
3,154	3,146	3,071	3,165	3,008	3,124	3,394	3,481	3,567	6
9,264	9,140	9,134	9,000	8,623	9,035	9,231	9,231	9,295	7
24,438	24,381	24,263	24,745	22,805	23,868	24,372	23,712	23,918	8
239	234	218	228	215	231	243	256	257	9
2,542	2,296	2,315	2,428	1,789	1,690	1,642	1,562	1,559	10
232	238	224	232	241	263	292	312	311	11
725	749	721	743	714	724	735	757	762	12
5,363	5,602	5,571	5,903	6,012	5,873	5,779	5,788	5,829	13
577	400	504	530	251	295	317	341	345	14
1,637	1,636	1,622	1,679	1,723	1,756	1,729	1,753	1,778	15
112	113	116	123	114	118	122	124	124	16
453	451	478	529	594	649	697	733	736	17
3,295	3,348	3,316	3,542	3,462	3,348	3,263	3,206	3,230	18
64,910	64,843	64,708	66,242	63,286	64,807	66,042	65,543	66,247	19
100,356	95,631	94,702	92,756	94,277	94,206	95,233	93,910	95,803	20
165,266	160,474	159,410	158,998	157,563	159,012	161,274	159,453	162,051	21
-14,104	-13,449	-15,317	-15,587	-15,404	-15,594	-15,956	-15,474	-13,699	24
151,162	147,026	144,093	143,411	142,159	143,419	145,318	143,979	148,352	25
4,815	9,223	10,214	7,788	6,324	6,287	5,874	6,027	5,524	27
491	966	868	1,176	1,706	2,202	2,330	2,365	2,305	28
156,468	157,215	155,176	152,374	150,189	151,907	153,523	152,372	156,181	29

Table 11.6.2: CO₂ emissions in road transport by fuel type^{*)}

1,000 tonnes

No.	Year	Total	Diesel engine		Gasoline engine ¹⁾			
			Diesel ²⁾	Biodiesel	Petrol	Bioethanol	Liquid gas (cars gas)	Natural gas
		All homogeneous branches and private households						
1	1995	166,155	69,368	106	96,671	-	9	-
2	1996	166,416	69,891	145	96,373	-	7	-
3	1997	167,067	70,462	259	96,339	-	7	-
4	1998	169,049	72,249	289	96,504	-	7	-
5	1999	172,508	78,291	380	93,830	-	7	-
6	2000	172,155	78,536	869	92,744	-	6	-
7	2001	175,179	82,946	1,185	91,041	-	6	-
8	2002	174,329	83,818	1,449	89,024	-	39	-
9	2003	171,934	83,853	2,120	85,916	-	45	-
10	2004	174,648	87,608	2,821	84,013	82	123	-
11	2005	170,900	86,595	4,815	78,671	491	153	175
12	2006	171,212	85,668	9,223	74,807	966	299	249
13	2007	171,401	87,762	10,214	71,648	868	581	327
14	2008	169,379	89,779	7,788	69,219	1,176	1,017	400
15	2009	167,616	90,147	6,324	67,416	1,706	1,550	473
16	2010	169,410	93,874	6,287	65,139	2,202	1,418	491
17	2011	171,505	96,293	5,874	64,981	2,330	1,535	492
18	2012	169,872	97,847	6,027	61,606	2,365	1,530	497
19	2013	171,709	101,661	5,524	60,390	2,305	1,500	329
		including: private households						
20	1995	101,300	19,063	21	82,208	-	8	-
21	1996	102,891	19,467	28	83,389	-	6	-
22	1997	102,918	18,775	49	84,087	-	6	-
23	1998	101,488	18,558	53	82,871	-	6	-
24	1999	101,522	20,015	69	81,432	-	6	-
25	2000	100,925	19,891	148	80,880	-	5	-
26	2001	102,326	21,843	196	80,281	-	6	-
27	2002	105,087	24,527	345	80,179	-	36	-
28	2003	103,803	25,110	521	78,132	-	41	-
29	2004	105,358	27,503	779	76,887	75	112	-
30	2005	102,505	28,111	1,398	72,245	450	141	161
31	2006	99,629	26,800	2,606	68,831	888	275	229
32	2007	99,388	28,321	3,039	66,381	805	539	303
33	2008	97,503	28,507	2,341	64,249	1,091	944	371
34	2009	99,743	31,476	1,993	62,802	1,588	1,444	440
35	2010	99,973	33,600	1,944	60,605	2,047	1,320	457
36	2011	101,142	34,769	1,858	60,464	2,166	1,428	457
37	2012	99,851	36,756	1,871	57,154	2,190	1,419	461
38	2013	101,388	39,783	1,755	56,020	2,134	1,391	305

*) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

1) Without bio-methane.

2) Including "unassigned consumption" (see general notes).

Table 11.6.3: CO₂ emissions by vehicles categories, gasoline engine^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2005								
1	A	Products of agriculture, forestry and fishing.....	71	50	13	5	1	2
2	B	Mining and quarrying.....	18	16	0	1	0	1
3	C	Manufactured products.....	940	888	0	41	4	6
4	D	Electricity, gas, steam and air conditioning.....	47	35	0	10	0	1
5	E	Water supply; sewerage, waste management and remediation services.....	249	231	0	13	1	4
6	F	Constructions and construction works.....	281	231	0	43	1	6
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,287	1,144	0	118	13	12
8	H	Transportation and storage services.....	366	195	0	164	1	5
9	I	Accommodation and food services.....	103	98	0	4	0	0
10	J	Information and communication services.....	314	293	0	14	2	5
11	K	Financial and insurance services.....	88	88	0	1	0	0
12	L	Real estate services.....	185	177	0	5	1	2
13	M	Professional, scientific and technical services.....	1,604	1,490	0	82	8	25
14	N	Administrative and support services.....	94	87	0	5	0	2
15	O	Public administration and defence services.....	239	171	0	23	2	43
16	P	Education services.....	19	18	0	1	0	0
17	Q	Human health and social work services.....	177	170	0	3	1	3
18	R-T	Other services.....	341	316	0	18	2	5
19		All homogeneous branches.....	6,426	5,698	14	553	39	123
20		Private households.....	72,245	70,295	-	159	1,600	191
21		All homogeneous branches and private households (residents concept) 2).....	78,671	75,993	14	711	1,639	314
22		Balance bunkering of fuels 3).....	-7,220	-7,220	-	-	-	-
23		All homogeneous branches and private households (domestic concept)	71,451	68,773	14	711	1,639	314
2010								
24	A	Products of agriculture, forestry and fishing.....	55	27	22	3	1	2
25	B	Mining and quarrying.....	8	7	0	1	0	0
26	C	Manufactured products.....	628	600	0	23	2	4
27	D	Electricity, gas, steam and air conditioning.....	55	41	0	13	0	1
28	E	Water supply; sewerage, waste management and remediation services.....	195	172	0	15	1	7
29	F	Constructions and construction works.....	167	138	0	24	1	4
30	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,038	915	0	106	7	10
31	H	Transportation and storage services.....	237	181	0	50	1	4
32	I	Accommodation and food services.....	73	70	0	3	0	0
33	J	Information and communication services.....	156	146	0	8	1	2
34	K	Financial and insurance services.....	54	53	0	1	0	0
35	L	Real estate services.....	126	117	0	7	1	1
36	M	Professional, scientific and technical services.....	1,062	990	0	54	6	12
37	N	Administrative and support services.....	46	43	0	2	0	0
38	O	Public administration and defence services.....	164	107	0	20	2	35
39	P	Education services.....	16	14	0	1	1	0
40	Q	Human health and social work services.....	191	185	0	4	1	1
41	R-T	Other services.....	260	241	0	13	2	3
42		All homogeneous branches.....	4,534	4,049	24	347	26	88
43		Private households.....	60,605	58,952	-	168	1,467	18
44		All homogeneous branches and private households (residents concept) 2).....	65,139	63,001	24	515	1,493	106
45		Balance bunkering of fuels 3).....	-8,157	-8,157	-	-	-	-
46		All homogeneous branches and private households (domestic concept)	56,982	54,844	24	515	1,493	106
2011								
47	A	Products of agriculture, forestry and fishing.....	56	26	24	3	1	2
48	B	Mining and quarrying.....	7	6	0	1	0	0
49	C	Manufactured products.....	652	624	0	22	2	4
50	D	Electricity, gas, steam and air conditioning.....	57	43	0	13	0	1
51	E	Water supply; sewerage, waste management and remediation services.....	185	164	0	14	1	6
52	F	Constructions and construction works.....	172	144	0	23	1	4
53	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,036	916	0	103	7	9
54	H	Transportation and storage services.....	237	184	0	48	1	3
55	I	Accommodation and food services.....	75	71	0	3	0	0
56	J	Information and communication services.....	149	140	0	7	1	2
57	K	Financial and insurance services.....	56	55	0	1	0	0
58	L	Real estate services.....	129	120	0	7	1	1
59	M	Professional, scientific and technical services.....	1,032	963	0	51	6	11
60	N	Administrative and support services.....	48	45	0	2	0	0
61	O	Public administration and defence services.....	157	102	0	20	2	33
62	P	Education services.....	16	15	0	1	1	0
63	Q	Human health and social work services.....	204	198	0	4	1	1
64	R-T	Other services.....	249	231	0	12	2	3
65		All homogeneous branches.....	4,518	4,048	26	335	26	82
66		Private households.....	60,464	58,781	-	165	1,501	17
67		All homogeneous branches and private households (residents concept) 2).....	64,981	62,828	26	500	1,527	99
68		Balance bunkering of fuels 3).....	-8,260	-8,260	-	-	-	-
69		All homogeneous branches and private households (domestic concept)	56,722	54,569	26	500	1,527	99

Table 11.6.3: CO₂ emissions by vehicles categories, gasoline engine^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trailers and buses	Light duty vehicles	Motor-cycles	Other
2012								
70	A	Products of agriculture, forestry and fishing.....	55	24	25	3	1	2
71	B	Mining and quarrying.....	7	6	0	1	0	0
72	C	Manufactured products.....	635	609	0	21	2	3
73	D	Electricity, gas, steam and air conditioning.....	58	43	0	14	0	1
74	E	Water supply; sewerage, waste management and remediation services.....	177	157	0	14	1	6
75	F	Constructions and construction works.....	177	150	0	22	1	4
76	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,020	903	0	100	8	9
77	H	Transportation and storage services.....	238	186	0	47	1	3
78	I	Accommodation and food services.....	75	71	0	3	0	0
79	J	Information and communication services.....	144	135	0	7	1	2
80	K	Financial and insurance services.....	58	57	0	1	0	0
81	L	Real estate services.....	132	123	0	7	1	1
82	M	Professional, scientific and technical services.....	1,014	949	0	48	6	11
83	N	Administrative and support services.....	48	45	0	2	0	0
84	O	Public administration and defence services.....	150	97	0	20	2	31
85	P	Education services.....	17	15	0	1	1	0
86	Q	Human health and social work services.....	208	201	0	4	1	1
87	R-T	Other services.....	240	224	0	12	2	3
88		All homogeneous branches.....	4,453	3,994	27	327	27	77
89		Private households.....	57,154	55,454	-	161	1,522	16
90		All homogeneous branches and private households (residents concept) 2).....	61,606	59,448	27	488	1,550	93
91		Balance bunkering of fuels 3).....	-8,182	-8,182	-	-	-	-
92		All homogeneous branches and private households (domestic concept)	53,424	51,266	27	488	1,550	93
2013								
93	A	Products of agriculture, forestry and fishing.....	56	24	26	3	1	2
94	B	Mining and quarrying.....	6	6	0	1	0	0
95	C	Manufactured products.....	623	597	0	20	2	3
96	D	Electricity, gas, steam and air conditioning.....	57	42	0	14	0	1
97	E	Water supply; sewerage, waste management and remediation services.....	173	154	0	13	1	5
98	F	Constructions and construction works.....	174	147	0	22	1	3
99	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,003	889	0	98	8	8
100	H	Transportation and storage services.....	233	182	0	46	1	3
101	I	Accommodation and food services.....	73	69	0	3	0	0
102	J	Information and communication services.....	141	132	0	7	1	1
103	K	Financial and insurance services.....	57	56	0	1	0	0
104	L	Real estate services.....	129	121	0	7	1	1
105	M	Professional, scientific and technical services.....	993	930	0	47	6	10
106	N	Administrative and support services.....	47	45	0	2	0	0
107	O	Public administration and defence services.....	146	95	0	19	2	29
108	P	Education services.....	16	15	0	1	1	0
109	Q	Human health and social work services.....	207	200	0	4	1	1
110	R-T	Other services.....	235	219	0	12	2	2
111		All homogeneous branches.....	4,370	3,923	28	318	28	73
112		Private households.....	56,020	54,307	-	157	1,541	15
113		All homogeneous branches and private households (residents concept) 2).....	60,390	58,230	28	475	1,569	88
114		Balance bunkering of fuels 3).....	-7,027	-7,027	-	-	-	-
115		All homogeneous branches and private households (domestic concept)	53,363	51,203	28	475	1,569	88

*) Including energy consumption of bioethanol.

1) Classification of products by activity (CPA) in the European Community (2008 version).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.6.4: CO₂ emissions by vehicles categories, diesel engine^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks, Semi-trailer trucks	Traction engine	Light duty vehicles	Other, buses
2005								
1	A	Products of agriculture, forestry and fishing.....	3,466	75	159	3,024	171	37
2	B	Mining and quarrying.....	199	33	116	2	38	10
3	C	Manufactured products.....	3,712	1,579	994	39	976	124
4	D	Electricity, gas, steam and air conditioning.....	234	55	14	2	117	46
5	E	Water supply; sewerage, waste management and remediation services.....	3,944	379	3,138	10	303	113
6	F	Constructions and construction works.....	2,873	514	830	23	1,397	109
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	7,977	1,656	3,715	18	2,305	283
8	H	Transportation and storage services.....	24,072	605	18,548	21	2,978	1,920
9	I	Accommodation and food services.....	136	73	7	0	49	7
10	J	Information and communication services.....	2,228	531	1,033	7	461	196
11	K	Financial and insurance services.....	144	118	15	1	7	3
12	L	Real estate services.....	539	260	82	4	137	57
13	M	Professional, scientific and technical services.....	3,759	1,694	185	34	1,428	419
14	N	Administrative and support services.....	482	137	157	15	120	53
15	O	Public administration and defence services.....	1,398	271	10	57	316	743
16	P	Education services.....	92	35	28	1	21	8
17	Q	Human health and social work services.....	276	170	5	1	39	61
18	R-T	Other services.....	2,954	1,113	573	24	964	280
19		All homogeneous branches.....	58,484	9,298	29,608	3,283	11,829	4,467
20		Private households.....	28,111	22,551	-	-	2,469	3,091
21		All homogeneous branches and private households (residents concept) 2).....	86,595	31,849	29,608	3,283	14,298	7,557
22		Balance bunkering of fuels 3).....	-6,884	-2,256	-2,988	-	-1,641	-
23		All homogeneous branches and private households (domestic concept)	79,711	29,594	26,620	3,283	12,657	7,557
2010								
24	A	Products of agriculture, forestry and fishing.....	4,036	64	192	3,552	187	41
25	B	Mining and quarrying.....	258	53	158	1	36	9
26	C	Manufactured products.....	4,108	1,837	1,027	44	1,101	98
27	D	Electricity, gas, steam and air conditioning.....	405	132	30	2	209	32
28	E	Water supply; sewerage, waste management and remediation services.....	4,084	484	2,930	12	471	187
29	F	Constructions and construction works.....	2,957	476	786	29	1,585	80
30	G	Wholesale and retail trade services; repair services of motor vehicles.....	7,997	1,444	3,417	21	2,877	238
31	H	Transportation and storage services.....	23,632	996	18,991	25	1,784	1,835
32	I	Accommodation and food services.....	158	88	3	8	56	4
33	J	Information and communication services.....	1,533	372	773	7	315	66
34	K	Financial and insurance services.....	209	190	5	1	10	2
35	L	Real estate services.....	598	289	0	6	249	55
36	M	Professional, scientific and technical services.....	4,811	2,313	163	40	1,983	312
37	N	Administrative and support services.....	249	105	46	16	69	12
38	O	Public administration and defence services.....	1,592	387	17	66	394	727
39	P	Education services.....	102	50	20	1	25	7
40	Q	Human health and social work services.....	458	341	4	4	78	30
41	R-T	Other services.....	3,088	1,294	468	25	1,105	196
42		All homogeneous branches.....	60,273	10,917	29,030	3,862	12,535	3,930
43		Private households.....	33,600	29,257	-	-	3,953	390
44		All homogeneous branches and private households (residents concept) 2).....	93,874	40,174	29,030	3,862	16,488	4,320
45		Balance bunkering of fuels 3).....	-7,437	-2,388	-3,636	-	-1,412	-
46		All homogeneous branches and private households (domestic concept)	86,437	37,785	25,394	3,862	15,076	4,320
2011								
47	A	Products of agriculture, forestry and fishing.....	4,263	66	196	3,779	177	45
48	B	Mining and quarrying.....	268	61	161	6	31	9
49	C	Manufactured products.....	4,291	1,975	1,079	29	1,105	102
50	D	Electricity, gas, steam and air conditioning.....	459	144	29	3	249	34
51	E	Water supply; sewerage, waste management and remediation services.....	3,988	478	2,868	13	447	183
52	F	Constructions and construction works.....	3,221	544	881	13	1,701	82
53	G	Wholesale and retail trade services; repair services of motor vehicles.....	8,196	1,573	3,379	27	2,975	243
54	H	Transportation and storage services.....	24,135	1,044	19,392	12	1,832	1,855
55	I	Accommodation and food services.....	168	96	3	3	63	4
56	J	Information and communication services.....	1,493	364	752	7	306	64
57	K	Financial and insurance services.....	235	209	6	1	18	2
58	L	Real estate services.....	606	295	0	6	250	56
59	M	Professional, scientific and technical services.....	4,748	2,310	158	42	1,931	307
60	N	Administrative and support services.....	270	123	47	2	81	16
61	O	Public administration and defence services.....	1,572	392	17	67	353	743
62	P	Education services.....	105	53	20	1	24	7
63	Q	Human health and social work services.....	493	367	4	5	82	35
64	R-T	Other services.....	3,014	1,268	455	27	1,071	193
65		All homogeneous branches.....	61,524	11,360	29,448	4,041	12,696	3,978
66		Private households.....	34,769	30,155	-	-	4,208	405
67		All homogeneous branches and private households (residents concept) 2).....	96,293	41,516	29,448	4,041	16,905	4,383
68		Balance bunkering of fuels 3).....	-7,696	-1,858	-4,222	-	-1,616	-
69		All homogeneous branches and private households (domestic concept)	88,597	39,658	25,225	4,041	15,288	4,383

Table 11.6.4: CO₂ emissions by vehicles categories, diesel engine^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	Total	Cars	Trucks, Semi-trailer trucks	Traction engine	Light duty vehicles	Other, buses
2012								
70	A	Products of agriculture, forestry and fishing.....	4,405	67	175	3,933	181	50
71	B	Mining and quarrying.....	284	64	175	6	31	9
72	C	Manufactured products.....	4,465	2,103	1,072	30	1,154	105
73	D	Electricity, gas, steam and air conditioning.....	496	155	29	3	274	34
74	E	Water supply; sewerage, waste management and remediation services.....	3,705	477	2,586	13	448	180
75	F	Constructions and construction works.....	3,304	581	814	14	1,810	86
76	G	Wholesale and retail trade services; repair services of motor vehicles.....	8,211	1,672	3,220	28	3,053	238
77	H	Transportation and storage services.....	23,475	1,083	18,634	12	1,874	1,871
78	I	Accommodation and food services.....	181	104	3	3	68	4
79	J	Information and communication services.....	1,418	363	679	7	306	63
80	K	Financial and insurance services.....	254	224	6	1	22	2
81	L	Real estate services.....	625	306	0	6	258	55
82	M	Professional, scientific and technical services.....	4,775	2,348	143	43	1,940	301
83	N	Administrative and support services.....	293	137	44	2	92	18
84	O	Public administration and defence services.....	1,603	401	17	68	362	755
85	P	Education services.....	107	57	18	1	25	7
86	Q	Human health and social work services.....	525	391	4	5	88	37
87	R-T	Other services.....	2,966	1,266	411	28	1,072	189
88		All homogeneous branches.....	61,091	11,799	28,028	4,203	13,057	4,003
89		Private households.....	36,756	32,063	-	-	4,279	413
90		All homogeneous branches and private households (residents concept) 2).....	97,847	43,863	28,028	4,203	17,336	4,417
91		Balance bunkering of fuels 3).....	-7,291	-1,592	-4,120	-	-1,579	-
92		All homogeneous branches and private households (domestic concept)	90,555	42,271	23,908	4,203	15,758	4,417
2013								
93	A	Products of agriculture, forestry and fishing.....	4,595	67	194	4,096	188	50
94	B	Mining and quarrying.....	282	58	181	2	32	9
95	C	Manufactured products.....	4,522	2,092	1,098	32	1,196	104
96	D	Electricity, gas, steam and air conditioning.....	507	154	30	4	284	34
97	E	Water supply; sewerage, waste management and remediation services.....	3,714	475	2,582	13	464	179
98	F	Constructions and construction works.....	3,393	577	838	14	1,876	88
99	G	Wholesale and retail trade services; repair services of motor vehicles.....	8,292	1,662	3,197	29	3,164	241
100	H	Transportation and storage services.....	23,685	1,069	18,815	13	1,948	1,840
101	I	Accommodation and food services.....	183	104	2	3	70	4
102	J	Information and communication services.....	1,418	362	670	7	317	62
103	K	Financial and insurance services.....	255	223	6	1	23	2
104	L	Real estate services.....	633	305	0	6	267	54
105	M	Professional, scientific and technical services.....	4,836	2,339	141	44	2,011	301
106	N	Administrative and support services.....	298	136	44	2	95	20
107	O	Public administration and defence services.....	1,632	401	17	69	375	770
108	P	Education services.....	107	56	18	1	26	6
109	Q	Human health and social work services.....	530	392	5	5	91	38
110	R-T	Other services.....	2,995	1,261	405	28	1,112	188
111		All homogeneous branches.....	61,878	11,734	28,243	4,370	13,540	3,990
112		Private households.....	39,783	34,930	-	-	4,432	421
113		All homogeneous branches and private households (residents concept) 2).....	101,661	46,665	28,243	4,370	17,972	4,411
114		Balance bunkering of fuels 3).....	-6,672	-798	-4,251	-	-1,623	-
115		All homogeneous branches and private households (domestic concept)	94,989	45,867	23,993	4,370	16,348	4,411

*) Without emissions of biodiesel, including "unassigned consumption" (see general notes).

1) Classification of products by activity (CPA) in the European Community (2008 version).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.6.5: CO₂ emissions of motor gasoline cars^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	96	80	70	50
2	B	Mining and quarrying.....	30	23	19	16
3	C	Manufactured products.....	1,139	997	925	888
4	D	Electricity, gas, steam and air conditioning.....	41	41	43	35
5	E	Water supply; sewerage, waste management and remediation services.....	328	282	259	231
6	F	Constructions and construction works.....	431	355	295	231
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,661	1,444	1,353	1,144
8	H	Transportation and storage services.....	208	207	203	195
9	I	Accommodation and food services.....	141	124	113	98
10	J	Information and communication services.....	415	355	319	293
11	K	Financial and insurance services.....	130	117	103	88
12	L	Real estate services.....	197	191	181	177
13	M	Professional, scientific and technical services.....	2,087	1,780	1,600	1,490
14	N	Administrative and support services.....	79	102	100	87
15	O	Public administration and defence services.....	221	207	187	171
16	P	Education services.....	22	20	19	18
17	Q	Human health and social work services.....	179	176	176	170
18	R-T	Other services.....	502	419	369	316
19		All homogeneous branches.....	7,908	6,919	6,333	5,698
20		Private households.....	78,249	76,178	74,920	70,295
21		All homogeneous branches and private households (residents concept) 2).....	86,157	83,098	81,253	75,993
22		Balance bunkering of fuels 3).....	-5,044	-6,069	-6,777	-7,220
23		All homogeneous branches and private households (domestic concept)	81,113	77,029	74,476	68,773
24		Bioethanol.....	-	-	82	491

*) Without emissions of bioethanol.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.6.5: CO₂ emissions of motor gasoline cars^{*)}

1,000 tonnes

2006	2007	2008	2009	2010	2011	2012	2013	No.
44	38	35	29	27	26	24	24	1
13	10	9	8	7	6	6	6	2
811	679	613	579	600	624	609	597	3
33	30	30	39	41	43	43	42	4
239	206	210	188	172	164	157	154	5
205	161	149	129	138	144	150	147	6
1,055	952	827	898	915	916	903	889	7
184	157	146	176	181	184	186	182	8
89	74	73	69	70	71	71	69	9
266	220	219	158	146	140	135	132	10
76	56	52	52	53	55	57	56	11
168	139	137	118	117	120	123	121	12
1,432	1,258	1,277	1,057	990	963	949	930	13
48	59	60	40	43	45	45	45	14
157	141	134	118	107	102	97	95	15
16	15	15	15	14	15	15	15	16
166	164	171	180	185	198	201	200	17
296	250	255	261	241	231	224	219	18
5,299	4,611	4,412	4,114	4,049	4,048	3,994	3,923	19
67,018	64,834	62,691	61,156	58,952	58,781	55,454	54,307	20
72,317	69,444	67,103	65,270	63,001	62,828	59,448	58,230	21
-7,787	-7,353	-7,731	-7,712	-8,157	-8,260	-8,182	-7,027	22
64,530	62,091	59,372	57,558	54,844	54,569	51,266	51,203	23
966	868	1,176	1,706	2,202	2,330	2,365	2,305	24

Table 11.6.6: CO₂ emissions of gas-diesel oil cars^{*)}

1,000 tonnes

No.	CPA ¹⁾	Homogeneous branches	2002	2003	2004	2005
1	A	Products of agriculture, forestry and fishing.....	101	90	85	75
2	B	Mining and quarrying.....	42	38	37	33
3	C	Manufactured products.....	1,364	1,472	1,612	1,579
4	D	Electricity, gas, steam and air conditioning.....	41	47	56	55
5	E	Water supply; sewerage, waste management and remediation services.....	356	358	386	379
6	F	Constructions and construction works.....	619	583	569	514
7	G	Wholesale and retail trade services; repair services of motor vehicles.....	1,425	1,494	1,674	1,656
8	H	Transportation and storage services.....	463	523	591	605
9	I	Accommodation and food services.....	69	71	76	73
10	J	Information and communication services.....	472	502	534	531
11	K	Financial and insurance services.....	73	91	109	118
12	L	Real estate services.....	149	205	248	260
13	M	Professional, scientific and technical services.....	1,532	1,548	1,641	1,694
14	N	Administrative and support services.....	83	119	143	137
15	O	Public administration and defence services.....	161	191	212	271
16	P	Education services.....	25	29	34	35
17	Q	Human health and social work services.....	112	135	159	170
18	R-T	Other services.....	1,117	1,095	1,154	1,113
19		All homogeneous branches.....	8,204	8,589	9,320	9,298
20		Private households.....	19,252	19,754	21,981	22,551
21		All homogeneous branches and private households (residents concept) 2).....	27,456	28,343	31,300	31,849
22		Balance bunkering of fuels 3).....	-1,327	-1,990	-1,990	-2,256
23		All homogeneous branches and private households (domestic concept)	26,129	26,353	29,310	29,594
24		Biodiesel.....	485	736	1,100	1,957

*) Without emissions of biodiesel.

1) Statistical Classification of Products by Activity (CPA) of the European Union (2008 Edition).

2) Residents concept: including mileages of residents abroad, excluding mileages of non-residents on the territory.

3) Mileages of non-residents on the territory minus mileages of residents abroad.

Table 11.6.6: CO₂ emissions of gas-diesel oil cars^{*)}

1,000 tonnes

2006	2007	2008	2009	2010	2011	2012	2013	No.
73	66	64	61	64	66	67	67	1
32	28	27	53	53	61	64	58	2
1,674	1,681	1,617	1,744	1,837	1,975	2,103	2,092	3
58	62	70	116	132	144	155	154	4
455	463	510	494	484	478	477	475	5
512	478	508	441	476	544	581	577	6
1,706	1,687	1,559	1,369	1,444	1,573	1,672	1,662	7
660	674	682	913	996	1,044	1,083	1,069	8
76	72	78	80	88	96	104	104	9
553	537	574	382	372	364	363	362	10
135	140	152	172	190	209	224	223	11
283	279	277	283	289	295	306	305	12
1,907	1,983	2,170	2,337	2,313	2,310	2,348	2,339	13
87	126	138	85	105	123	137	136	14
315	314	342	357	387	392	401	401	15
38	41	45	45	50	53	57	56	16
210	230	263	299	341	367	391	392	17
1,204	1,218	1,345	1,326	1,294	1,268	1,266	1,261	18
9,978	10,079	10,422	10,557	10,917	11,360	11,799	11,734	19
23,655	25,108	25,342	27,282	29,257	30,155	32,063	34,930	20
33,632	35,187	35,763	37,839	40,174	41,516	43,863	46,665	21
-2,919	-3,450	-3,184	-2,388	-2,388	-1,858	-1,592	-798	22
30,713	31,737	32,579	35,451	37,785	39,658	42,271	45,867	23
3,672	4,229	3,288	2,771	2,680	2,569	2,572	2,358	24

Table 12.1.1: Land use in Germany

No.	Specification	2000	2005	2010	2011	2012	2013	2014 ¹⁾
1,000 hectares								
1	Land use for agriculture.....	17,067.3	17,035.2	16,704.0	16,721.3	16,667.3	16,699.6	16,724.8
2	Arable land.....	11,803.5	11,903.3	11,846.7	11,874.1	11,834.0	11,875.9	11,869.2
3	Area of kitchen gardens.....	8.8	5.1	3.9	3.3	2.7	2.9	2.7
4	Fruits.....	69.3	66.2	65.3	65.6	64.3	63.4	63.8
5	Tree nursery.....	24.8	21.7	20.9	20.7	21.2	20.7	20.8
6	Permanent grassland.....	5,047.6	4,929.0	4,654.7	4,644.0	4,630.8	4,621.0	4,650.7
7	Meadows.....	1,999.6	1,862.5	1,899.2	1,812.7	1,832.9	1,826.8	1,829.6
8	Mowing pastures.....	2,082.0	2,260.3	2,544.7	2,630.5	2,599.1	2,584.6	2,620.3
9	Meadows with mountain pastures, excl. rough pastures 2).....	830.6	649.8	.	.	.	.	.
10	Rough pastures, litter meadows.....	135.5	156.3	188.0	183.9	180.1	191.0	183.2
11	From agricultural production excluded permanent grassland.....	-	-	22.8	16.9	18.7	18.6	17.5
12	Vineland.....	99.7	97.0	97.8	97.4	97.5	98.9	99.4
13	Christmas tree, basket willows, poplar.....	13.5	12.9	14.6	15.0	15.6	15.8	17.9
2000 = 100								
14	Land use for agriculture.....	100	99.8	97.9	98.0	97.7	97.8	98.0
15	Arable land.....	100	100.8	100.4	100.6	100.3	100.6	100.6
16	Area of kitchen gardens.....	100	58.0	44.6	37.5	30.7	33.0	30.7
17	Fruits.....	100	95.5	94.2	94.7	92.8	91.5	92.1
18	Tree nursery.....	100	87.5	84.1	83.5	85.5	83.5	83.9
19	Permanent grassland.....	100	97.7	92.2	92.0	91.7	91.5	92.1
20	Meadows.....	100	93.1	95.0	90.7	91.7	91.4	91.5
21	Mowing pastures.....	100	108.6	122.2	126.3	124.8	124.1	125.9
22	Meadows with mountain pastures, excl. rough pastures 2).....	100	78.2	.	.	.	.	.
23	Rough pastures, litter meadows.....	100	115.4	138.7	135.7	132.9	141.0	135.2
24	From agricultural production excluded permanent grassland.....							
25	Vineland.....	100	97.3	98.1	97.7	97.8	99.2	99.7
26	Christmas tree, basket willows, poplar.....	100	95.6	108.3	111.1	115.6	117.0	132.6
Percentage of total								
27	Land use for agriculture.....	100	100	100	100	100	100	100
28	Arable land.....	69.2	69.9	70.9	71.0	71.0	71.1	71.0
29	Area of kitchen gardens.....	0.1	0.0	0.0	0.0	0.0	0.0	0.0
30	Fruits.....	0.4	0.4	0.4	0.4	0.4	0.4	0.4
31	Tree nursery.....	0.1	0.1	0.1	0.1	0.1	0.1	0.1
32	Permanent grassland.....	29.6	28.9	27.9	27.8	27.8	27.7	27.8
33	Meadows.....	11.7	10.9	11.4	10.8	11.0	10.9	10.9
34	Mowing pastures.....	12.2	13.3	15.2	15.7	15.6	15.5	15.7
35	Meadows with mountain pastures, excl. rough pastures 2).....	4.9	3.8	.	.	.	.	.
36	Rough pastures, litter meadows.....	0.8	0.9	1.1	1.1	1.1	1.1	1.1
37	From agricultural production excluded permanent grassland.....	-	-	0.1	0.1	0.1	0.1	0.1
38	Vineland.....	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39	Christmas tree, basket willows, poplar.....	0.1	0.1	0.1	0.1	0.1	0.1	0.1

1) Partly estimated.

2) 2010 pastures incl. mowing pastures and mountain pastures.

Source: Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing) Fachserie 3, Reihe 3.1.2

Table 12.1.2: Harvest volume of field crops
1,000 tonnes

No.	Cultures	2000	2005	2010 ¹⁾	2011	2012	2013	2014
1	Cereals.....	45,271	45,980	44,039	41,920	45,397	47,757	52,010
2	Bread cereals.....	25,830	26,535	26,683	25,304	26,287	29,708	31,639
3	Wheat.....	21,622	23,693	23,783	22,783	22,409	25,019	27,785
4	Winter wheat.....	21,325	23,349	23,452	22,396	21,397	24,634	27,415
5	Summer wheat.....	253	293	219	314	955	332	296
6	Durum wheat.....	43	51	112	73	57	53	74
7	Rye 2).....	4,154	2,794	2,900	2,521	3,878	4,689	3,854
8	Mixed winter cereals.....	54	48	.	.	.	.	.
9	Fodder and industry cereals.....	16,118	15,363	13,144	11,433	13,595	13,662	15,229
10	Barley.....	12,106	11,614	10,327	8,734	10,391	10,344	11,563
11	Winter barley.....	9,232	8,819	8,622	6,676	7,079	8,398	9,496
12	Summer barley.....	2,874	2,795	1,705	2,058	3,312	1,946	2,067
13	Oats.....	1,087	964	598	627	757	628	627
14	Mixed summer cereals.....	125	109	62	68	152	81	67
15	Triticale.....	2,800	2,676	2,157	2,004	2,295	2,609	2,972
16	Grain maize 3).....	3,324	4,083	4,212	5,184	5,515	4,387	5,142
17	Fodder pea.....	409	346	172	155	139	129	155
18	Beans.....	62	60	50	61	61	60	88
19	Sweet lupins 4).....	-	.	.	28	32	31	41
20	Potatoes.....	13,193	11,624	10,143	11,837	10,666	9,670	11,607
21	New potatoes.....	559	477	.	.	.	.	.
22	Late potatoes 5).....	12,634	11,147	.	.	.	.	.
23	Sugar beets.....	27,870	25,285	22,441	29,578	27,687	22,829	...
24	Mangel-wurzels 6).....	959	.	.	.	.	.	.
25	Rape and turnip rape.....	3,586	5,052	5,698	3,870	4,821	5,784	6,247
26	Winter rape.....	3,527	5,005	5,688	3,830	4,807	5,771	6,242
27	Summer rape, winter- and summer turnip rape.....	59	47	9	39	15	13	6
28	Sunflowers.....	64	67	47	53	63	46	46
29	Roughage, total 7).....	38,921	39,088	32,782	33,491	35,101	32,861	37,325
30	Clover, clover/grass.....	1,690	1,738	.	1,923	2,075	1,892	2,134
31	Lucerne 7).....	252	269	.	.	.	.	.
32	Grass (for mowing and grazing) 7).....	1,910	2,406	2,533	2,692	2,784	2,477	2,798
33	Meadows 7).....	16,578	15,444	12,440	11,532	12,066	11,435	12,885
34	Mowing pastures 7).....	18,492	19,231	16,024	17,343	18,176	17,058	19,508
35	Silage maize 8).....	52,006	57,479	72,151	96,793	94,789	78,249	99,204
36	Cereals for whole plant harvest 8).....	-	-	-	-	1,357	1,616	2,606

1) Data are based on a modified classification of types of field crops.

2) From 2010 onwards rye and maslin are recorded together.

3) Including corn cob mix.

4) From 2004 to 2009 facultative collection of yield and harvest volumes.

5) Incl. early industrial, fodder and seed potatoes.

6) After 2004 facultative survey.

7) Yield and harvest volumes in dry weight calculated (incl. roughage, green fodder and pasture use).

8) Yield and harvest volumes in green mass (35% dry weight).

Source: Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing), Fachserie 3, Reihe 3

Table 12.1.3: Yield per hectare of field crops
Quintals

No.	Cultures	2000	2005	2010 ¹⁾	2011	2012	2013	2014
1	Cereals.....	64.6	67.3	66.9	64.6	69.7	73.2	80.5
2	Bread cereals.....	67.6	71.1	.	.	.	.	.
3	Wheat.....	72.8	74.7	72.1	70.1	73.3	80.0	86.3
4	Winter wheat.....	73.2	75.1	72.5	70.6	74.0	80.3	86.8
5	Summer wheat.....	54.3	54.9	51.2	52.3	62.7	62.2	60.0
6	Durum wheat.....	50.4	49.3	53.1	47.3	49.2	61.3	65.3
7	Rye 2).....	49.3	50.9	46.3	41.1	54.7	59.8	61.2
8	Mixed winter cereals.....	53.8	51.8	.	.	.	.	.
9	Fodder and industry cereals.....	56.9	57.7	.	.	.	.	.
10	Barley.....	58.6	59.7	62.9	54.7	61.9	65.9	73.5
11	Winter barley.....	63.8	65.6	66.6	56.7	64.9	69.3	77.3
12	Summer barley.....	46.3	46.4	49.2	49.0	56.4	54.2	59.8
13	Oats.....	45.9	45.9	42.3	43.7	52.0	47.7	50.6
14	Mixed summer cereals.....	42.9	41.8	39.2	41.8	47.5	46.7	47.6
15	Triticale.....	56.1	55.7	54.3	52.3	61.8	65.7	71.1
16	Grain maize 3).....	92.8	92.7	90.9	107.2	105.5	89.1	107.6
17	Fodder pea.....	28.9	31.4	30.0	27.7	31.0	34.1	37.2
18	Beans.....	34.9	38.0	30.6	35.6	38.9	36.3	42.7
19	Sweet lupins 4).....	0.0	0.0	0.0	12.8	17.6	17.9	19.0
20	Potatoes.....	433.4	419.8	398.8	457.6	447.5	398.3	474.2
21	New potatoes.....	314.8	311.5	.	.	.	.	.
22	Late potatoes 5).....	440.8	426.1	.	.	.	.	.
23	Sugar beets.....	616.6	601.8	616.3	743.0	688.5	638.8	...
24	Mangel-wurzels 6).....	1,027.8	.	.	.	.	.	.
25	Rape and turnip rape.....	33.3	37.6	39.0	29.1	36.9	39.5	44.8
26	Winter rape.....	33.7	37.8	39.0	29.3	37.0	39.5	44.8
27	Summer rape, Winter- and Summer turnip rape.....	18.5	22.4	24.5	18.5	21.7	24.0	24.5
28	Sunflowers.....	24.8	24.7	18.9	19.8	23.8	21.0	23
29	Roughage, total 7).....	86.3	84.5	0.0	65.6	68.9	65.1	73.6
30	Clover, clover/grass.....	93.1	89.8	.	73.0	75.8	69.1	77.9
31	Lucerne 7).....	88.0	83.0	.	.	.	.	.
32	Grass (for mowing and grazing) 7).....	88.4	86.1	65.5	67.7	72.0	68.7	80.6
33	Meadows 7).....	82.9	82.9	65.5	63.6	65.8	62.6	70.4
34	Mowing pastures 7).....	88.8	85.1	63.0	65.9	69.9	66.0	74.4
35	Silage maize 8).....	450.5	454.3	393.8	476.1	464.3	389.7	473.3
36	Cereals for whole plant harvest 8).....	-	-	-	-	.	239.7	295.1

1) Data are based on a modified classification of types of field crops.

2) From 2010 onwards rye and maslin are recorded together.

3) Including corn cob mix.

4) From 2004 to 2009 facultative collection of yield and harvest volumes.

5) Incl. early industrial, fodder and seed potatoes.

6) After 2004 facultative survey.

7) Yield and harvest volumes in dry weight calculated (incl. roughage, green fodder and pasture use).

8) Yield and harvest volumes in green mass (35% dry weight).

Source: Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing), Fachserie 3, Reihe 3

Table 12.1.4: Cultivation area of field crops
1,000 hectares

No.	Cultures	2000	2005	2010 ¹⁾	2011	2012	2013	2014
1	Cereals.....	7,016	6,839	6,596	6,491	6,518	6,526	6,461
2	Bread cereals.....	3,822	3,732	3,925	3,862	3,766	3,913	3,850
3	Wheat.....	2,969	3,174	3,298	3,248	3,057	3,128	3,220
4	Winter wheat.....	2,914	3,110	3,234	3,173	2,893	3,066	3,159
5	Summer wheat.....	47	53	43	60	152	53	49
6	Durum wheat.....	9	10	21	15	12	9	11
7	Rye 2).....	843	549	627	614	709	785	630
8	Mixed winter cereals.....	10	9	.	.	.	.	.
9	Fodder and industry cereals.....	2,833	2,664	2,195	2,140	2,226	2,115	2,130
10	Barley.....	2,068	1,947	1,642	1,598	1,678	1,570	1,574
11	Winter barley.....	1,446	1,345	1,295	1,178	1,090	1,211	1,228
12	Summer barley.....	621	602	347	420	588	399	346
13	Oats.....	237	210	141	143	145	131	124
14	Mixed summer cereals.....	29	26	15	16	32	17	14
15	Triticale.....	499	481	397	383	371	397	418
16	Grain maize 3).....	361	443	467	488	526	497	481
17	Fodder pea.....	141	110	57	56	45	38	42
18	Beans.....	18	16	16	17	16	16	21
19	Sweet lupins 4).....	.	.	.	22	18	17	21
20	Potatoes.....	304	277	254	259	238	243	245
21	New potatoes.....	18	15	.	.	.	.	.
22	Late potatoes 5).....	287	262	.	.	.	.	.
23	Sugar beets.....	452	420	364	398	402	357	373
24	Mangel-wurzels 6).....	9	5	3	2	.	.	.
25	Rape and turnip rape.....	1,078	1,344	1,461	1,329	1,306	1,466	1,394
26	Winter rape.....	1,046	1,323	1,457	1,307	1,299	1,460	1,392
27	Summer rape, Winter- and Summer turnip rape.....	32	21	4	21	7	6	2
28	Sunflowers.....	26	27	25	27	26	22	20
29	Roughage, total 7).....	4,508	4,628	5,077	5,104	5,092	5,046	5,071
30	Clover, clover/grass.....	182	194	246	264	274	274	274
31	Lucerne 7).....	29	32	.	.	.	.	.
32	Grass (for mowing and grazing) 7).....	216	279	387	397	386	360	347
33	Meadows 7).....	2,000	1,862	1,899	1,813	1,833	1,827	1,830
34	Mowing pastures 7).....	2,082	2,260	2,545	2,630	2,599	2,585	2,620
35	Silage maize 8).....	1,154	1,263	1,829	2,029	2,038	2,003	2,093
36	Cereals for whole plant harvest 8).....	-	-	-	-	.	67	88

1) Data are based on a modified classification of types of field crops.

2) From 2010 onwards rye and maslin are recorded together.

3) Including corn cob mix.

4) From 2004 to 2009 facultative collection of yield and harvest volumes.

5) Incl. early industrial, fodder and seed potatoes.

6) After 2004 facultative survey.

7) Yield and harvest volumes in dry weight calculated (incl. roughage, green fodder and pasture use).

8) Yield and harvest volumes in green mass (35% dry weight).

Source: Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing), Fachserie 3, Reihe 3

Table 12.1.5: Stock of animals

No.	Animals	Unit	2000	2005	2010	2011	2012	2013	2014	2015
1	Cattles 1).....	1,000	14,538	13,035	12,809	12,563	12,477	12,686	12,742	12,653
	including:									
2	Beef cows.....	1,000	5,184	4,564	21,206	4,201	4,091	4,167	4,151	4,140
3	Dairy cows.....	1,000	4,570	4,236	4,183	4,185	4,191	4,268	4,296	4,287
4	Pigs 1).....	1,000	25,633	26,858	26,509	26,758	28,132	28,133	28,339	28,099
5	including: fattened pigs.....	1,000	10,016	10,664	11,173	11,216	12,073	12,383	12,408	12,160
6	Poultry.....	1,000	–	120,560	128,900	–	–	160,774	–	–
	including:									
7	Broilers.....	1,000	–	55,687	64,761	–	–	97,146	–	–
8	Laying hens.....	1,000	–	37,561	36,341	–	–	43,751	–	–
9	Other fattened poultry.....	1,000	–	13,293	14,786	–	–	16,560	–	–
10	Sheeps 2).....	1,000	2,743	2,642	2,089	1,658	1,641	1,570	1,601	...
11	Cattles 1).....	2005 = 100	111.5	100.0	98.3	96.4	95.7	97.3	97.8	97.1
	including:									
12	Beef cows.....	2005 = 100	113.6	100.0	464.7	92.1	89.6	91.3	91.0	90.7
13	Dairy cows.....	2005 = 100	107.9	100.0	98.8	98.8	98.9	100.7	101.4	101.2
14	Pigs 1).....	2005 = 100	95.4	100.0	98.7	99.6	104.7	104.7	105.5	104.6
15	including: fattened pigs.....	2005 = 100	93.9	100.0	104.8	105.2	113.2	116.1	116.4	114.0
16	Poultry.....	2005 = 100	–	100.0	106.9	–	–	133.4	–	–
	including:									
17	Broilers.....	2005 = 100	–	100.0	116.3	–	–	174.4	–	–
18	Laying hens.....	2005 = 100	–	100.0	96.8	–	–	116.5	–	–
19	Other fattened poultry.....	2005 = 100	–	100.0	111.2	–	–	124.6	–	–
20	Sheeps 2).....	2005 = 100	103.8	100.0	79.0	62.7	62.1	59.4	60.6	...

Sources:

Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing), Fachserie 3, Reihe 4
www.destatis.de > Facts & Figures > Economic Sectors > Agriculture and forestry, fishing > Animals and animal production > Tables

1) 2000-2012: data of May survey, from 2013 onwards data from November survey.

2) Sheeps: from 2011 limited comparability with previous years.

Table 12.2.1: Land use of products of animal origin

No.	Specification	Unit	2000	2005	2010	2011	2012	2013
Production of fodder								
1	Domestic production.....	1,000 tonnes	136,720	132,807	117,722	118,664	122,544	119,446
2	Fodder imports.....	1,000 tonnes	11,611	11,504	15,113	15,123	16,171	16,102
3	Fodder supply.....	1,000 tonnes	148,331	144,311	132,835	133,787	138,715	135,548
4	Domestic production.....	2000 = 100	100	97.1	86.1	86.8	89.6	87.4
5	Fodder imports.....	2000 = 100	100	99.1	130.2	130.2	139.3	138.7
6	Feed according.....	2000 = 100	100	97.3	89.6	90.2	93.5	91.4
7	Domestic production.....	%	92.2	92.0	88.6	88.7	88.3	88.1
8	Fodder imports.....	%	7.8	8.0	11.4	11.3	11.7	11.9
9	Fodder supply.....	%	100	100	100	100	100	100
Land use of fodder								
10	Domestic production.....	1,000 hectares	10,096	9,862	9,970	9,796	9,719	9,855
11	Fodder imports.....	1,000 hectares	3,222	3,002	3,579	3,527	3,808	3,856
12	Fodder supply.....	1,000 hectares	13,318	12,863	13,549	13,323	13,527	13,711
13	Domestic production.....	2000 = 100	100	97.7	98.7	97.0	96.3	97.6
14	Fodder imports.....	2000 = 100	100	93.2	111.1	109.5	118.2	119.7
15	Fodder supply.....	2000 = 100	100	96.6	101.7	100.0	101.6	103.0
Domestic consumption of products of animals¹⁾								
16	Meat.....	1,000 tonnes	2,804	2,934	2,630	2,548	2,485	2,567
17	Sausage.....	1,000 tonnes	2,691	2,525	2,691	2,705	2,673	2,601
18	Eggs.....	1,000 tonnes	1,079	960	1,107	988	993	1,007
19	Dairy products.....	1 000 t MFU ²⁾	1,007	1,044	1,115	1,144	1,147	1,130
Land use of products of animals - domestic consumption								
20	Meat.....	1,000 hectares	4,372	4,096	4,019	4,110	4,016	4,013
21	Sausage.....	1,000 hectares	3,822	3,362	3,669	3,727	3,672	3,503
22	Eggs.....	1,000 hectares	451	442	562	512	597	598
23	Dairy products.....	1,000 hectares	4,545	4,293	4,664	4,557	4,352	4,041
24	Total.....	1,000 hectares	13,190	12,193	12,914	12,906	12,637	12,155
Land use of products of animal origin of domestic consumption (per capita)								
25	Meat and sausage.....	m ² per capita	997	904	940	958	938	915
26	Meat.....	m ² per capita	532	497	492	503	490	489
27	Sausage.....	m ² per capita	465	408	449	456	448	427
28	Eggs.....	m ² per capita	55	54	69	63	73	73
29	Dairy products.....	m ² per capita	553	521	570	557	531	492

1) Source: Statistisches Bundesamt (Federal Statistical Office), Vierteljährliche Produktionserhebung im Verarbeitenden Gewerbe (Quarterly production surveys of manufacturing) [GENESIS] and own calculations.

2) MFU = milk fat unit.

Table 12.2.2: Land use of fodder crops in Germany^{*)}

No.	Specification	Unit	2000	2005	2010	2011	2012	2013
Primary fodder as market products								
1	Cereals.....	1,000 ha	3,149	3,102	3,244	3,367	3,243	3,262
2	Wheat.....	1,000 ha	1,207	986	963	1,147	1,103	1,128
3	Rye.....	1,000 ha	210	97	380	379	399	458
4	Barley.....	1,000 ha	845	1,013	1,003	1,071	1,046	902
5	Oats.....	1,000 ha	259	203	146	131	92	83
6	Grain maize.....	1,000 ha	249	325	351	293	348	417
7	Other cereals.....	1,000 ha	379	478	401	347	255	273
8	Pulses.....	1,000 ha	238	172	47	24	18	40
9	Fodder pea.....	1,000 ha	194	138	26	10	4	20
10	Beans.....	1,000 ha	25	16	11	9	13	14
11	Other pulses.....	1,000 ha	19	19	10	5	1	6
12	Oilseeds.....	1,000 ha	19	21	38	35	21	26
Fodder from plants of processing								
13	Brans.....	1,000 ha	207	209	241	251	228	234
14	Oil cake.....	1,000 ha	175	151	81	81	61	78
15	Pulp.....	1,000 ha	32	31	33	29	34	34
16	By-products of corn processing.....	1,000 ha	46	11	10	7	6	3
17	Molasses.....	1,000 ha	8	7	3	4	5	2
18	Oils and fats from plants.....	1,000 ha	5	3	2	1	1	7
Fodder crops and by-products								
19	Clover and lucerne.....	1,000 ha	188	159	246	263	274	274
20	Meadows and pastures.....	1,000 ha	4,298	4,401	4,418	4,432	4,430	4,368
21	Silage maize.....	1,000 ha	1,153	1,140	1,252	1,050	1,088	1,245
22	Other feed crops.....	1,000 ha	138	128	-	-	-	-
23	Fodder root crops.....	1,000 ha	324	202	169	125	142	132
24	Potatoes.....	1,000 ha	117	124	188	125	169	150
25	Total.....	1,000 ha	10,096	9,862	9,970	9,796	9,719	9,855
26	Land use for agriculture 1).....	1,000 ha	17,067	17,035	16,704	16,721	16,667	16,700
27	Percentage of fodder of land use for agriculture	%	59.2	57.9	59.7	58.6	58.3	59.0
28	Arable land 1).....	1,000 ha	11,804	11,903	11,847	11,874	11,834	11,876
29	Fodder on arable land.....	1,000 ha	5,798	5,173	5,306	5,100	5,015	5,213
30	percentag fodder on arable land.....	%	49.1	43.5	44.8	43.0	42.4	43.9
31	Permanent grassland 1).....	1,000 ha	5,048	4,929	4,655	4,644	4,631	4,621
32	Percentage fodder on permanent grassland.....	%	85.1	89.3	94.9	95.4	95.7	94.5

^{*)} According the classification of the production of fodder in Statistischen Jahrbuch über Ernährung, Landwirtschaft und Forsten, different volumes, own calculations.

1) Source: Statistisches Bundesamt (Federal Statistical Office), Land- und Forstwirtschaft, Fischerei (Agriculture, Forestry, Fishing) Fachserie 3, Reihe 3.1.2

Table 12.2.3: Fodder of livestock by type of animal and origin

1,000 tonnes

No.	Animals	2000	2005	2010	2011	2012	2013
Domestic production of fodder							
1	Cattles.....	106,225	104,157	95,134	96,380	97,897	94,174
2	Beef cattle.....	37,997	37,227	32,887	33,259	33,497	32,121
3	Cows and femals cattles.....	55,005	54,184	47,869	48,500	49,435	47,545
4	Calves.....	13,223	12,745	14,379	14,621	14,965	14,508
5	Pigs.....	19,538	17,873	12,755	12,473	12,751	13,007
6	Poultry.....	6,957	6,921	7,082	7,052	9,133	9,589
7	Laying hens.....	1,717	1,707	1,552	1,545	2,053	2,155
8	Broilers.....	5,240	5,214	5,530	5,507	7,080	7,433
9	Horses.....	2,053	1,979	1,567	1,572	1,614	1,569
10	Sheeps and goats.....	1,947	1,878	1,184	1,187	1,149	1,108
11	Total.....	136,720	132,807	117,722	118,664	122,544	119,446
Imports of fodder							
12	Cattles.....	5,368	5,349	6,898	6,995	6,902	6,829
13	Beef cattle.....	1,936	1,901	2,417	2,508	2,415	2,387
14	Cows and femals cattles.....	2,699	2,723	3,569	3,552	3,507	3,488
15	Calves.....	732	726	911	935	980	954
16	Pigs.....	3,570	3,506	4,653	4,626	4,758	4,758
17	Poultry.....	2,477	2,454	3,303	3,245	4,261	4,267
18	Laying hens.....	434	420	601	590	745	751
19	Broilers.....	2,043	2,034	2,702	2,654	3,516	3,516
20	Horses.....	137	136	179	178	180	179
21	Sheeps and goats.....	59	59	79	79	70	70
22	Total.....	11,611	11,504	15,113	15,123	16,171	16,102
Supply							
23	Cattles.....	111,593	109,505	102,032	103,375	104,799	101,002
24	Beef cattle.....	39,933	39,128	35,304	35,767	35,912	34,508
25	Cows and femals cattles.....	57,704	56,907	51,438	52,052	52,942	51,033
26	Calves.....	13,956	13,471	15,290	15,557	15,945	15,462
27	Pigs.....	23,109	21,378	17,408	17,099	17,509	17,765
28	Poultry.....	9,434	9,375	10,386	10,296	13,394	13,856
29	Laying hens.....	2,151	2,127	2,154	2,135	2,798	2,907
30	Broilers.....	7,283	7,248	8,232	8,161	10,596	10,949
31	Horses.....	2,189	2,115	1,746	1,750	1,794	1,748
32	Sheeps and goats.....	2,006	1,937	1,263	1,267	1,219	1,178
33	Total.....	148,331	144,311	132,835	133,787	138,715	135,548

Table 12.2.4: Fodder of livestock by type of animal and origin

2000 = 100

No.	Animals	2000	2005	2010	2011	2012	2013
Domestic production of fodder							
1	Cattles.....	100	98.1	89.6	90.7	92.2	88.7
2	Beef cattle.....	100	98.0	86.6	87.5	88.2	84.5
3	Cows and femals cattles.....	100	98.5	87.0	88.2	89.9	86.4
4	Calves.....	100	96.4	108.7	110.6	113.2	109.7
5	Pigs.....	100	91.5	65.3	63.8	65.3	66.6
6	Poultry.....	100	99.5	101.8	101.4	131.3	137.8
7	Laying hens.....	100	99.4	90.4	90.0	119.6	125.6
8	Broilers.....	100	99.5	105.5	105.1	135.1	141.8
9	Horses.....	100	96.4	76.4	76.6	78.6	76.4
10	Sheeps and goats.....	100	96.4	60.8	61.0	59.0	56.9
11	Total.....	100	97.1	86.1	86.8	89.6	87.4
Imports of fodder							
12	Cattles.....	100	99.7	128.5	130.3	128.6	127.2
13	Beef cattle.....	100	98.2	124.8	129.5	124.7	123.3
14	Cows and femals cattles.....	100	100.9	132.3	131.6	129.9	129.2
15	Calves.....	100	99.1	124.4	127.7	133.9	130.2
16	Pigs.....	100	98.2	130.3	129.6	133.3	133.3
17	Poultry.....	100	99.1	133.4	131.0	172.1	172.3
18	Laying hens.....	100	96.9	138.5	136.0	171.7	173.1
19	Broilers.....	100	99.6	132.3	129.9	172.1	172.1
20	Horses.....	100	99.5	130.5	129.9	131.3	130.7
21	Sheeps and goats.....	100	99.6	133.7	133.6	118.1	117.3
22	Total.....	100	99.1	130.2	130.2	139.3	138.7
Supply							
23	Cattles.....	100	98.1	91.4	92.6	93.9	90.5
24	Beef cattle.....	100	98.0	88.4	89.6	89.9	86.4
25	Cows and femals cattles.....	100	98.6	89.1	90.2	91.7	88.4
26	Calves.....	100	96.5	109.6	111.5	114.3	110.8
27	Pigs.....	100	92.5	75.3	74.0	75.8	76.9
28	Poultry.....	100	99.4	110.1	109.1	142.0	146.9
29	Laying hens.....	100	98.9	100.1	99.3	130.1	135.2
30	Broilers.....	100	99.5	113.0	112.1	145.5	150.3
31	Horses.....	100	96.6	79.7	79.9	81.9	79.8
32	Sheeps and goats.....	100	96.5	62.9	63.1	60.7	58.7
33	Total.....	100	97.3	89.6	90.2	93.5	91.4

Table 12.2.5: Fodder of livestock by type of animal and origin

Percentage of total

No.	Animals	2000	2005	2010	2011	2012	2013
Domestic production of fodder							
1	Cattles.....	77.7	78.4	80.8	81.2	79.9	78.8
2	Beef cattle.....	27.8	28.0	27.9	28.0	27.3	26.9
3	Cows and femals cattles.....	40.2	40.8	40.7	40.9	40.3	39.8
4	Calves.....	9.7	9.6	12.2	12.3	12.2	12.1
5	Pigs.....	14.3	13.5	10.8	10.5	10.4	10.9
6	Poultry.....	5.1	5.2	6.0	5.9	7.5	8.0
7	Laying hens.....	1.3	1.3	1.3	1.3	1.7	1.8
8	Broilers.....	3.8	3.9	4.7	4.6	5.8	6.2
9	Horses.....	1.5	1.5	1.3	1.3	1.3	1.3
10	Sheeps and goats.....	1.4	1.4	1.0	1.0	0.9	0.9
11	Total.....	100	100	100	100	100	100
Imports of fodder							
12	Cattles.....	46.2	46.5	45.6	46.3	42.7	42.4
13	Beef cattle.....	16.7	16.5	16.0	16.6	14.9	14.8
14	Cows and femals cattles.....	23.2	23.7	23.6	23.5	21.7	21.7
15	Calves.....	6.3	6.3	6.0	6.2	6.1	5.9
16	Pigs.....	30.8	30.5	30.8	30.6	29.4	29.5
17	Poultry.....	21.3	21.3	21.9	21.5	26.3	26.5
18	Laying hens.....	3.7	3.7	4.0	3.9	4.6	4.7
19	Broilers.....	17.6	17.7	17.9	17.6	21.7	21.8
20	Horses.....	1.2	1.2	1.2	1.2	1.1	1.1
21	Sheeps and goats.....	0.5	0.5	0.5	0.5	0.4	0.4
22	Total.....	100	100	100	100	100	100
Supply							
23	Cattles.....	75.2	75.9	76.8	77.3	75.6	74.5
24	Beef cattle.....	26.9	27.1	26.6	26.7	25.9	25.5
25	Cows and femals cattles.....	38.9	39.4	38.7	38.9	38.2	37.6
26	Calves.....	9.4	9.3	11.5	11.6	11.5	11.4
27	Pigs.....	15.6	14.8	13.1	12.8	12.6	13.1
28	Poultry.....	6.4	6.5	7.8	7.7	9.7	10.2
29	Laying hens.....	1.4	1.5	1.6	1.6	2.0	2.1
30	Broilers.....	4.9	5.0	6.2	6.1	7.6	8.1
31	Horses.....	1.5	1.5	1.3	1.3	1.3	1.3
32	Sheeps and goats.....	1.4	1.3	1.0	0.9	0.9	0.9
33	Total.....	100	100	100	100	100	100
Imports of fodder in percent of supply							
34	Cattles.....	4.8	4.9	6.8	6.8	6.6	6.8
35	Beef cattle.....	4.8	4.9	6.8	7.0	6.7	6.9
36	Cows and femals cattles.....	4.7	4.8	6.9	6.8	6.6	6.8
37	Calves.....	5.2	5.4	6.0	6.0	6.1	6.2
38	Pigs.....	15.5	16.4	26.7	27.1	27.2	26.8
39	Poultry.....	26.3	26.2	31.8	31.5	31.8	30.8
40	Laying hens.....	20.2	19.8	27.9	27.7	26.6	25.9
41	Broilers.....	28.0	28.1	32.8	32.5	33.2	32.1
42	Horses.....	6.3	6.4	10.2	10.2	10.0	10.2
43	Sheeps and goats.....	3.0	3.1	6.3	6.3	5.8	5.9
44	Total.....	7.8	8.0	11.4	11.3	11.7	11.9

Table 12.2.6: Land use for the production of fodder of livestock by type of animal and origin

1,000 hectares

No.	Animals	2000	2005	2010	2011	2012	2013
Land use of fodder from domestic production							
1	Cattles.....	6,888	6,856	6,934	6,789	6,632	6,756
2	Beef cattle.....	2,443	2,419	2,355	2,294	2,237	2,284
3	Cows and femals cattles.....	3,727	3,718	3,663	3,596	3,511	3,573
4	Calves.....	719	719	916	899	884	899
5	Pigs.....	1,938	1,767	1,770	1,710	1,618	1,615
6	Poultry.....	971	944	1,028	1,064	1,242	1,257
7	Laying hens.....	248	240	228	235	282	286
8	Broilers.....	723	704	800	828	959	971
9	Horses.....	158	155	141	140	137	138
10	Sheeps and goats.....	142	140	96	94	90	90
11	Total.....	10,096	9,862	9,970	9,796	9,719	9,855
Land use of imported fodder							
12	Cattles.....	1,538	1,434	1,667	1,655	1,643	1,657
13	Beef cattle.....	547	512	589	595	574	581
14	Cows and femals cattles.....	821	761	893	877	878	882
15	Calves.....	170	161	185	183	191	194
16	Pigs.....	947	881	1,070	1,051	1,094	1,114
17	Poultry.....	682	635	781	760	1,012	1,025
18	Laying hens.....	108	101	136	133	169	173
19	Broilers.....	573	534	645	627	843	852
20	Horses.....	38	36	43	42	42	43
21	Sheeps and goats.....	17	16	19	19	17	17
22	Total.....	3,222	3,002	3,579	3,527	3,808	3,856
Land use of fodder supply							
23	Cattles.....	8,426	8,290	8,601	8,444	8,275	8,413
24	Beef cattle.....	2,990	2,931	2,944	2,888	2,811	2,864
25	Cows and femals cattles.....	4,548	4,479	4,556	4,473	4,388	4,456
26	Calves.....	888	879	1,101	1,082	1,075	1,093
27	Pigs.....	2,885	2,647	2,840	2,761	2,713	2,729
28	Poultry.....	1,652	1,579	1,809	1,824	2,254	2,282
29	Laying hens.....	357	342	364	368	451	459
30	Broilers.....	1,296	1,238	1,445	1,456	1,803	1,823
31	Horses.....	196	191	184	181	180	181
32	Sheeps and goats.....	159	156	115	113	106	106
33	Total.....	13,318	12,863	13,549	13,323	13,527	13,711

Table 12.2.7: Land use of products of animal origin - domestic production

No.	Products of animal origin	Unit	2000	2005	2010	2011	2012	2013
Domestic production of products of animal origin								
1	Meat.....	1,000 t	2,429	3,046	3,707	3,772	3,632	3,717
2	Cattles.....	1,000 t	666	548	540	496	460	443
3	Pigs.....	1,000 t	1,378	1,929	2,457	2,555	2,448	2,527
4	Broilers.....	1,000 t	353	531	684	706	710	734
5	Sheep/Goat.....	1,000 t	32	38	27	15	14	12
6	Sausage.....	1,000 t	2,678	2,624	2,878	2,914	2,879	2,808
7	Beef.....	1,000 t	438	435	472	485	463	446
8	Porc.....	1,000 t	1,839	1,738	1,954	1,963	1,950	1,895
9	Chicken.....	1,000 t	395	446	448	462	461	462
10	Lamb.....	1,000 t	6	5	5	5	5	5
11	Dairy products 1).....	1,000 t MFU ²⁾	1,111	1,163	1,240	1,262	1,278	1,282
12	Milk.....	1,000 t MFU ²⁾	132	125	125	125	126	123
13	Cream.....	1,000 t MFU ²⁾	152	149	153	150	149	151
14	Product of yoghurt and kefir.....	1,000 t MFU ²⁾	35	41	48	49	49	56
15	Milkshake.....	1,000 t MFU ²⁾	5	6	7	7	7	7
16	Milk products.....	1,000 t MFU ²⁾	65	64	65	67	65	63
17	Buttermilk products.....	1,000 t MFU ²⁾	2	1	1	1	1	1
18	Evaporated milk products.....	1,000 t MFU ²⁾	40	30	27	26	28	25
19	Dried milk products.....	1,000 t MFU ²⁾	39	35	33	36	34	41
20	Butter.....	1,000 t MFU ²⁾	352	373	373	395	407	401
21	Cheese.....	1,000 t MFU ²⁾	222	256	299	288	292	289
22	Other dairy products.....	1,000 t MFU ²⁾	67	84	109	118	121	125
23	Eggs 3).....	1,000 t	853	741	717	710	751	773
Land use footprint of products of animal origin from domestic production								
24	Meat.....							
25	Cattles.....	m ² /kg	28.1	30.7	32.3	32.6	33.9	34.2
26	Pigs.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
27	Broilers.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
28	Sheep/Goat.....	m ² /kg	11.5	10.3	12.4	25.7	24.7	26.9
29	Sausage.....							
30	Beef.....	m ² /kg	28.4	30.9	32.5	33.0	34.6	34.9
31	Porc.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
32	Chicken.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
33	Lamb.....	m ² /kg	11.5	10.3	12.4	25.7	24.7	26.9
34	Dairy products.....							
35	Milk.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
36	Cream.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
37	Product of yoghurt and kefir.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
38	Milkshake.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
39	Milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
40	Buttermilk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
41	Evaporated milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
42	Dried milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
43	Butter.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
44	Cheese.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
45	Other dairy products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
46	Eggs.....	m ² /kg	4.2	4.6	5.1	5.2	6.0	5.9
Land use of products of animal origin from domestic production								
47	Meat.....	1,000 ha	3,894	4,095	4,797	4,746	4,534	4,488
48	Cattles.....	1,000 ha	1,869	1,681	1,742	1,615	1,557	1,517
49	Pigs.....	1,000 ha	1,329	1,602	1,999	2,028	1,837	1,896
50	Broilers.....	1,000 ha	659	773	1,023	1,064	1,106	1,043
51	Sheep/Goat.....	1,000 ha	37	40	33	39	35	32
52	Sausage.....	1,000 ha	3,761	3,442	3,800	3,865	3,794	3,647
53	Beef.....	1,000 ha	1,243	1,344	1,534	1,599	1,602	1,557
54	Porc.....	1,000 ha	1,774	1,444	1,590	1,558	1,463	1,422
55	Chicken.....	1,000 ha	738	649	670	696	718	656
56	Lamb.....	1,000 ha	6	5	6	12	11	12
57	Dairy products.....	1,000 ha	4,979	4,783	5,187	5,029	4,851	4,584
58	Milk.....	1,000 ha	592	513	525	499	477	439
59	Cream.....	1,000 ha	682	613	640	598	564	540
60	Product of yoghurt and kefir.....	1,000 ha	156	168	201	196	187	201
61	Milkshake.....	1,000 ha	24	24	29	30	26	25
62	Milk products.....	1,000 ha	293	263	272	267	246	224
63	Buttermilk products.....	1,000 ha	7	6	4	3	3	3
64	Evaporated milk products.....	1,000 ha	179	122	112	103	105	89
65	Dried milk products.....	1,000 ha	175	145	139	142	130	148
66	Butter.....	1,000 ha	1,576	1,533	1,560	1,572	1,545	1,432
67	Cheese.....	1,000 ha	994	1,051	1,252	1,146	1,108	1,035
68	Other dairy products.....	1,000 ha	302	346	454	472	460	449
69	Eggs.....	1,000 ha	357	342	364	368	451	459
70	Total.....	1,000 ha	12,991	12,662	14,148	14,007	13,630	13,178
71	Percentage grassland.....	%	42.0	42.8	40.4	39.5	40.9	40.4

1) Source: Statistisches Bundesamt (Federal Statistical Office), Vierteljährliche Produktionserhebung im Verarbeitenden Gewerbe (Quarterly production surveys of manufacturing) [GENESIS] and own calculations.

2) MFU = milk fat unity.

3) With smallholder farms.

2004: land use calculated by mean of the years 2003 and 2005.

Table 12.2.8: Land use of products of animal origin - imports

No.	Products of animal origin	Unit	2000	2005	2010	2011	2012	2013
Imports of products of animal origin								
1	Meat.....	1,000 t	1,214	1,514	1,510	1,675	1,813	1,849
2	Cattles.....	1,000 t	125	165	215	279	260	249
3	Pigs.....	1,000 t	850	1,015	972	1,053	1,060	1,044
4	Broilers.....	1,000 t	200	301	296	302	461	521
5	Sheep/Goat.....	1,000 t	39	33	27	41	32	35
6	Sausage.....	1,000 t	129	205	304	324	318	290
7	Beef.....	1,000 t	17	14	24	25	24	21
8	Porc.....	1,000 t	66	82	90	103	101	100
9	Chicken.....	1,000 t	46	109	190	196	193	169
10	Dairy products 1).....	1,000 t MFU ²⁾	258	282	353	368	369	369
11	Milk.....	1,000 t MFU ²⁾	36	60	77	85	81	77
12	Cream.....	1,000 t MFU ²⁾	4	7	8	9	9	9
13	Product of yoghurt and kefir.....	1,000 t MFU ²⁾	1	4	5	5	4	4
14	Milkshake.....	1,000 t MFU ²⁾	12	13	24	31	32	32
15	Dried milk products.....	1,000 t MFU ²⁾	9	10	13	12	11	10
16	Butter.....	1,000 t MFU ²⁾	121	108	120	113	113	119
17	Cheese.....	1,000 t MFU ²⁾	75	80	106	114	118	119
18	Other dairy products.....	1,000 t MFU ²⁾	0	0	0	0	0	0
19	Eggs 3).....	1,000 t	290	340	504	420	367	354
Land use footprint of products of animal origin from imports								
20	Meat.....							
21	Cattles.....	m ² /kg	49.0	49.0	49.0	49.0	49.0	49.0
22	Pigs.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
23	Broilers.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
24	Sheep/Goat.....	m ² /kg	11.5	10.3	12.4	25.7	24.7	26.9
25	Sausage.....							
26	Beef.....	m ² /kg	28.4	30.9	32.5	33.0	34.6	34.9
27	Porc.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
28	Chicken.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
29	Dairy products 3).....							
30	Milk.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
31	Cream.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
32	Product of yoghurt and kefir.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
33	Milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
34	Dried milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
35	Butter.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
36	Cheese.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
37	Other dairy products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
38	Eggs.....	m ² /kg	4.2	4.6	5.1	5.2	6.0	5.9
Land use of products of animal origin from imports								
39	Meat.....	1,000 ha	1,850	2,124	2,321	2,763	2,866	2,835
40	Cattles.....	1,000 ha	613	809	1,054	1,367	1,275	1,219
41	Pigs.....	1,000 ha	820	843	791	836	795	783
42	Broilers.....	1,000 ha	373	438	443	456	717	740
43	Sheep/Goat.....	1,000 ha	45	34	34	105	78	93
44	Sausage.....	1,000 ha	198	270	435	458	460	389
45	Beef.....	1,000 ha	48	43	78	82	84	74
46	Porc.....	1,000 ha	64	68	73	82	75	75
47	Chicken.....	1,000 ha	86	159	284	295	300	240
48	Dairy products.....	1,000 ha	1,156	1,159	1,474	1,468	1,399	1,320
49	Milk.....	1,000 ha	160	245	322	337	309	275
50	Cream.....	1,000 ha	17	28	34	34	32	31
51	Product of yoghurt and kefir.....	1,000 ha	7	18	22	20	17	14
52	Milk products.....	1,000 ha	52	53	101	123	121	114
53	Dried milk products.....	1,000 ha	39	42	53	48	43	36
54	Butter.....	1,000 ha	544	443	500	450	428	424
55	Cheese.....	1,000 ha	337	331	441	456	449	426
56	Eggs.....	1,000 ha	121	157	256	218	221	210
57	Total.....	1,000 ha	3,325	3,709	4,487	4,907	4,946	4,755
58	Percentage grassland.....	%	18.4	21.8	23.5	27.9	25.8	25.6

1) Source: Statistisches Bundesamt (Federal Statistical Office), Vierteljährliche Produktionserhebung im Verarbeitenden Gewerbe (Quarterly production surveys of manufacturing) [GENESIS] and own calculations.

2) MFU = milk fat unity.

3) With smallholder farms.

2004: land use calculated by mean of the years 2003 and 2005.

Table 12.2.9: Land use of products of animal origin - exports

No.	Products of animal origin	Unit	2000	2005	2010	2011	2012	2013
Exports of products of animal origin								
1	Meat.....	1,000 t	839	1,626	2,587	2,899	2,960	2,999
2	Cattles.....	1,000 t	253	288	330	339	293	269
3	Pigs.....	1,000 t	476	1,131	1,967	2,201	2,191	2,234
4	Broilers.....	1,000 t	108	203	285	353	469	489
5	Sheep/Goat.....	1,000 t	3	5	4	7	7	7
6	Sausage.....	1,000 t	116	304	492	532	524	497
7	Beef.....	1,000 t	5	25	36	36	31	29
8	Porc.....	1,000 t	92	215	339	378	363	345
9	Chicken.....	1,000 t	19	64	117	118	130	123
10	Dairy products 1).....	1,000 t MFU ²⁾	362	401	478	487	500	521
11	Milk.....	1,000 t MFU ²⁾	110	118	114	118	108	105
12	Cream.....	1,000 t MFU ²⁾	6	8	9	8	8	8
13	Product of yoghurt and kefir.....	1,000 t MFU ²⁾	11	14	14	14	14	15
14	Milk products.....	1,000 t MFU ²⁾	48	28	32	33	34	34
15	Dried milk products.....	1,000 t MFU ²⁾	55	41	41	44	43	45
16	Butter.....	1,000 t MFU ²⁾	47	70	93	90	99	118
17	Cheese.....	1,000 t MFU ²⁾	85	121	175	181	194	196
18	Eggs.....	1,000 t	64	121	114	142	125	120
Land use footprint of products of animal origin from exports								
19	Meat.....							
20	Cattles.....	m ² /kg	28.1	30.7	32.3	32.6	33.9	34.2
21	Pigs.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
22	Broilers.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
23	Sheep/Goat.....	m ² /kg	11.5	10.3	12.4	25.7	24.7	26.9
24	Sausage.....							
25	Beef.....	m ² /kg	28.4	30.9	32.5	33.0	34.6	34.9
26	Porc.....	m ² /kg	9.6	8.3	8.1	7.9	7.5	7.5
27	Chicken.....	m ² /kg	18.7	14.6	15.0	15.1	15.6	14.2
28	Dairy products.....							
29	Milk.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
30	Cream.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
31	Product of yoghurt and kefir.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
32	Milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
33	Dried milk products.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
34	Butter.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
35	Cheese.....	m ² /kg	44.8	41.1	41.8	39.8	38.0	35.8
36	Eggs.....	m ² /kg	4.2	4.6	5.1	5.2	6.0	5.9
Land use of products of animal origin from exports								
37	Meat.....	1,000 ha	1,373	2,123	3,099	3,400	3,384	3,310
38	Cattles.....	1,000 ha	709	885	1,066	1,103	993	921
39	Pigs.....	1,000 ha	459	939	1,601	1,747	1,644	1,676
40	Broilers.....	1,000 ha	201	295	426	532	731	694
41	Sheep/Goat.....	1,000 ha	3	5	5	19	16	20
42	Sausage.....	1,000 ha	138	350	567	596	583	534
43	Beef.....	1,000 ha	13	78	116	118	108	100
44	Porc.....	1,000 ha	88	179	276	300	272	259
45	Chicken.....	1,000 ha	36	93	176	178	202	175
46	Dairy products.....	1,000 ha	1,622	1,649	1,998	1,939	1,898	1,863
47	Milk.....	1,000 ha	493	487	477	469	410	376
48	Cream.....	1,000 ha	27	31	36	33	31	30
49	Product of yoghurt and kefir.....	1,000 ha	51	59	58	54	53	53
50	Milk products.....	1,000 ha	217	116	132	131	128	121
51	Dried milk products.....	1,000 ha	246	168	173	175	163	160
52	Butter.....	1,000 ha	208	289	390	357	377	422
53	Cheese.....	1,000 ha	380	499	732	721	735	701
54	Eggs.....	1,000 ha	27	56	58	74	75	71
55	Total.....	1,000 ha	3,159	4,178	5,721	6,008	5,940	5,778

1) Assignment based on the 4- and 6-digit codes of the foreign trade statistics.

2) MFU = milk fat unity.

Table 12.2.10: Land use of products of animal origin - domestic consumption

No.	Products of animal origin	Unit	2000	2005	2010	2011	2012	2013
Domestic production of products of animal origin								
1	Meat.....	1,000 t	2,804	2,934	2,630	2,548	2,485	2,567
2	Cattles.....	1,000 t	538	424	424	436	427	423
3	Pigs.....	1,000 t	1,752	1,813	1,461	1,407	1,317	1,338
4	Broilers.....	1,000 t	445	630	695	656	702	767
5	Sheep/Goat.....	1,000 t	68	67	49	49	39	39
6	Sausage.....	1,000 t	2,691	2,525	2,691	2,705	2,673	2,601
7	Beef.....	1,000 t	450	424	460	474	456	439
8	Porc.....	1,000 t	1,814	1,605	1,705	1,688	1,688	1,650
9	Chicken.....	1,000 t	422	491	521	539	525	508
10	Lamb.....	1,000 t	6	5	5	5	5	5
11	Dairy products.....	1,000 t MFU ¹⁾	1,007	1,044	1,115	1,144	1,147	1,130
12	Milk.....	1,000 t MFU ¹⁾	58	66	89	92	99	94
13	Cream.....	1,000 t MFU ¹⁾	150	148	153	150	149	151
14	Product of yoghurt and kefir.....	1,000 t MFU ¹⁾	25	31	40	41	40	45
15	Milkshake.....	1,000 t MFU ¹⁾	5	6	7	7	7	7
16	Milk products.....	1,000 t MFU ¹⁾	29	49	58	65	63	61
17	Buttermilk products.....	1,000 t MFU ¹⁾	2	1	1	1	1	1
18	Evaporated milk products.....	1,000 t MFU ¹⁾	40	30	27	26	28	25
19	Dried milk products.....	1,000 t MFU ¹⁾	X	5	5	4	3	7
20	Butter.....	1,000 t MFU ¹⁾	427	410	399	418	421	401
21	Cheese.....	1,000 t MFU ¹⁾	212	215	230	221	216	212
22	Other dairy products.....	1,000 t MFU ¹⁾	67	84	109	118	121	125
23	Eggs.....	1,000 t	1,079	960	1,107	988	993	1,007
Land use of products of animal origin of domestic consumption								
24	Meat.....	1,000 ha	4,372	4,096	4,019	4,110	4,016	4,013
25	Cattles.....	1,000 ha	1,773	1,605	1,729	1,879	1,839	1,816
26	Pigs.....	1,000 ha	1,689	1,506	1,189	1,117	988	1,003
27	Broilers.....	1,000 ha	831	916	1,039	988	1,092	1,088
28	Sheep/Goat.....	1,000 ha	78	69	62	125	96	106
29	Sausage.....	1,000 ha	3,822	3,362	3,669	3,727	3,672	3,503
30	Beef.....	1,000 ha	1,278	1,309	1,497	1,563	1,578	1,532
31	Porc.....	1,000 ha	1,749	1,333	1,388	1,340	1,266	1,238
32	Chicken.....	1,000 ha	788	714	779	813	816	721
33	Lamb.....	1,000 ha	6	5	6	12	11	12
34	Dairy products.....	1,000 ha	4,545	4,293	4,664	4,557	4,352	4,041
35	Milk.....	1,000 ha	259	271	370	368	375	338
36	Cream.....	1,000 ha	672	609	638	599	566	541
37	Product of yoghurt and kefir.....	1,000 ha	111	126	166	162	151	161
38	Milkshake.....	1,000 ha	24	24	29	30	26	25
39	Milk products.....	1,000 ha	128	200	241	259	239	217
40	Buttermilk products.....	1,000 ha	7	6	4	3	3	3
41	Evaporated milk products.....	1,000 ha	179	122	112	103	105	89
42	Dried milk products.....	1,000 ha	X	19	19	15	10	25
43	Butter.....	1,000 ha	1,912	1,687	1,670	1,665	1,596	1,434
44	Cheese.....	1,000 ha	951	883	961	881	822	760
45	Other dairy products.....	1,000 ha	302	346	454	472	460	449
46	Eggs.....	1,000 ha	451	442	562	512	597	598
47	Total.....	1,000 ha	13,190	12,193	12,914	12,906	12,637	12,155
48	Percentag Grassland.....	%	36.0	36.9	31.7	33.3	33.5	34.9
49	Land use per capita.....	m ² per capita	1,605	1,479	1,580	1,578	1,543	1,480
50	Population.....	mn	82.2	82.5	81.8	81.8	81.9	82.1

1) MFU = milk fat unity.

2004: land use calculated by mean of the years 2003 and 2005.

Table 12.3.1: CH₄ emissions / N₂O emissionsCO₂ equivalents (million tonnes)

No.	Emissions	2000	2005	2010	2011	2012
CH₄ emissions ¹⁾						
1	Fermentation of farm animals 2).....	21.9	20.5	20.9	20.7	20.7
2	Manure of farm animals 2).....	5.6	5.5	5.0	4.9	4.9
3	Total.....	27.5	26.0	25.9	25.6	25.5
CH₄ emissions of products of animal origin ³⁾						
4	Meat.....	9.2	8.1	7.4	7.1	7.0
5	Cattles.....	7.8	6.4	5.9	5.7	5.6
6	Pigs.....	1.0	1.3	1.2	1.2	1.2
7	Sheeps.....	0.3	0.3	0.3	0.2	0.1
8	Sausage.....	6.6	6.4	6.3	6.2	6.1
9	Dairy products.....	11.7	11.5	12.2	12.4	12.5
10	Milk and cream, not concentrated.....	3.0	2.7	2.7	2.7	2.7
11	Milk and cream, concentrated with sugar.....	0.8	0.6	0.6	0.6	0.6
12	Buttermilk, yoghurt, whey and others.....	1.1	1.1	1.2	1.2	1.2
13	Butter.....	3.7	3.7	3.7	3.9	4.0
14	Cheese and quark.....	3.0	3.4	4.0	4.0	4.0
15	Total.....	27.5	26.0	25.9	25.6	25.5
N₂O emissions						
16	Industrial fertilizers 2).....	3.0	2.9	2.9	2.8	2.8
17	Direct land emissions.....	27.4	26.1	24.8	26.3	25.8
18	Pasture fertilizer.....	1.6	1.4	1.3	1.3	1.3
19	Indirect emissions.....	14.9	14.1	13.3	14.1	13.8
20	Total 1).....	46.7	44.3	42.1	44.6	43.7
N₂O emissions of products of animal origin ^{3) 4)}						
21	Meat.....	0.35	0.33	0.31	0.28	0.29
22	Sausage.....	0.24	0.24	0.24	0.23	0.23
23	Dairy products.....	0.80	0.84	0.88	0.89	0.90
24	Total.....	1.39	1.41	1.43	1.40	1.42
N₂O emissions of products of vegetable origin ⁵⁾						
25	Cereals.....	21.0	19.8	18.6	20.2	19.7
26	Vegetables.....	0.7	0.7	0.6	0.6	0.6
27	Fruits/wine.....	1.7	1.5	1.4	1.4	1.4
28	Potatoes.....	1.0	0.9	0.9	0.9	0.9
29	Sugar beets.....	1.3	1.2	1.1	1.1	1.1
30	Rape and turnip rape.....	2.8	2.6	2.5	2.5	2.5
31	Meadows and pastures.....	9.8	9.2	8.8	9.5	9.1
32	Total.....	38.3	35.9	33.9	36.3	35.4
including:						
33	Fodder.....	17.9	15.3	15.8	16.4	14.4
34	Energy plants.....	0.2	0.9	1.4	1.8	1.7
35	Plants and animals total.....	39.7	37.4	35.3	37.7	36.8
36	CH₄ / N₂O emissions from agriculture (IPCC) 6).....	74.2	70.3	68.0	70.2	69.3
37	CH₄ / N₂O emissions from products.....	67.1	63.3	61.2	63.3	62.4

1) Source: Reporting for the Framework Convention on Climate Change (UNFCCC), own calculations on imports, exports, domestic consumption.

2) With CH₄ emissions from horses, donkey/mule and buffalo.3) Without CH₄ emissions from horses, donkey/mule and buffalo..

4) Emissions from industrial fertiliser.

5) Source: Own calculations based on the agricultural and production statistics of the Federal Statistical Office.

6) IPCC = Intergovernmental Panel of Climate Change.

Table 12.3.2: CH₄ emissions from agriculture

No.	CH ₄ emissions by ...	2000	2005	2010	2011	2012
CO₂ equivalents (million tonnes) ¹⁾						
1	Fermentation of farm animals	21.9	20.5	20.9	20.7	20.7
2	Manure of farm animals.....	5.6	5.5	5.0	4.9	4.9
3	Sum.....	27.5	26.0	25.9	25.6	25.5
Digestion ²⁾						
4	Domestic production.....	21.9	20.5	20.9	20.7	20.7
5	Imports.....	4.8	5.6	6.8	8.1	7.7
6	Exports.....	6.8	7.9	9.0	9.1	8.7
7	Exports - Imports.....	2.0	2.3	2.2	1.1	1.1
8	Domestic consumption.....	19.9	18.2	18.7	19.7	19.6
Industrial fertilizer ²⁾						
9	Domestic production.....	5.6	5.5	5.0	4.9	4.9
10	Imports.....	1.0	1.2	1.4	1.5	1.5
11	Exports.....	1.5	2.1	2.3	2.4	2.3
12	Exports - Imports.....	0.5	1.0	1.0	0.9	0.9
13	Domestic consumption.....	5.1	4.5	4.0	4.0	4.0
Total ²⁾						
14	Domestic production.....	27.5	26.0	25.9	25.6	25.5
15	Imports.....	5.8	6.7	8.2	9.6	9.2
16	Exports.....	8.3	10.0	11.4	11.5	11.1
17	Exports - Imports.....	2.5	3.2	3.2	1.9	1.9
18	Domestic consumption.....	25.0	22.7	22.7	23.7	23.6
2000 = 100						
19	Fermentation of farm animals	100	93.9	95.6	94.8	94.6
20	Manure of farm animals.....	100	96.9	88.8	86.8	86.6
21	Sum.....	100	94.5	94.2	93.2	92.9
Digestion ²⁾						
22	Domestic production.....	100	93.9	95.6	94.8	94.6
23	Imports.....	100	116.3	142.3	167.8	159.7
24	Exports.....	100	116.4	133.2	134.7	128.9
25	Exports - Imports.....	100	116.5	111.0	54.2	54.0
26	Domestic consumption.....	100	91.6	94.0	98.8	98.6
Industrial fertilizer ²⁾						
27	Domestic production.....	100	96.9	88.8	86.8	86.6
28	Imports.....	100	112.6	132.0	145.3	143.9
29	Exports.....	100	137.1	152.2	154.0	151.3
30	Exports - Imports.....	100	186.2	192.7	171.5	166.1
31	Domestic consumption.....	100	88.0	78.4	78.3	78.7
Total ²⁾						
32	Domestic production.....	100	94.5	94.2	93.2	92.9
33	Imports.....	100	115.7	140.5	163.8	156.9
34	Exports.....	100	120.2	136.7	138.3	133.1
35	Exports - Imports.....	100	130.9	127.9	78.4	77.1
36	Domestic consumption.....	100	90.9	90.8	94.6	94.5

1) Source: Reporting for the Framework Convention on Climate Change (UNFCCC), own calculations on imports, exports, domestic consumption.

2) Without CH₄ emissions from horses, donkey/mule and buffalo.

Table 12.3.3: CH₄ emissions by "manure" of products

No.	Products	Maßeinheit	2000	2005	2010	2011	2012
Domestic production							
1	Meat 1).....	1,000 t	2,494	3,120	3,823	3,933	3,785
2	Cattles.....	1,000 t	666	548	535	517	500
3	Cows.....	1,000 t	228	201	182	176	170
4	Other cattles.....	1,000 t	438	347	353	341	330
5	Pigs.....	1,000 t	1,378	1,929	2,457	2,555	2,448
6	Sheeps.....	1,000 t	32	38	27	15	14
7	Broiler.....	1,000 t	418	605	804	846	823
8	Sausage 2).....	1,000 t	2,587	2,522	2,802	2,807	2,781
9	Beef.....	1,000 t	438	435	472	465	445
10	Cow meat.....	1,000 t	150	160	161	159	151
11	Other beef.....	1,000 t	288	275	311	307	294
12	Pork.....	1,000 t	1,839	1,738	1,954	1,963	1,950
13	Lamb.....	1,000 t	5	5	5	5	5
14	Chicken.....	1,000 t	305	344	372	374	381
15	Dairy products 3).....	1,000 t MFU ⁴⁾	1,111	1,163	1,240	1,262	1,278
16	Milk and cream, not concentrated.....	1,000 t MFU ⁴⁾	284	274	278	275	274
17	Milk and cream, concentrated with sugar.....	1,000 t MFU ⁴⁾	79	65	60	62	62
18	Buttermilk, yoghurt, whey and other.....	1,000 t MFU ⁴⁾	107	112	121	125	122
19	Butter.....	1,000 t MFU ⁴⁾	352	373	373	395	407
20	Cheese and quark.....	1,000 t MFU ⁴⁾	289	340	408	406	413
Imports ⁵⁾							
21	Meat.....	1,000 t	1,214	1,514	1,510	1,669	1,801
22	Cattles.....	1,000 t	125	165	215	279	260
23	Other cattles.....	1,000 t	125	165	215	279	260
24	Pigs.....	1,000 t	850	1,015	972	1,046	1,048
25	Sheeps.....	1,000 t	39	33	27	41	32
26	Broiler.....	1,000 t	200	301	296	302	461
27	Sausage.....	1,000 t	129	205	304	337	357
28	Beef.....	1,000 t	17	14	24	26	26
29	Other beef.....	1,000 t	17	14	24	26	26
30	Pork.....	1,000 t	66	82	90	103	103
31	Chicken.....	1,000 t	46	109	190	208	227
32	Dairy products.....	1,000 t MFU ⁴⁾	258	282	353	368	369
33	Milk and cream, not concentrated.....	1,000 t MFU ⁴⁾	40	66	85	93	90
34	Milk and cream, concentrated with sugar.....	1,000 t MFU ⁴⁾	9	10	13	12	11
35	Buttermilk, yoghurt, whey and other.....	1,000 t MFU ⁴⁾	13	17	29	36	36
36	Butter.....	1,000 t MFU ⁴⁾	121	108	120	113	113
37	Cheese and quark.....	1,000 t MFU ⁴⁾	75	80	106	114	118
Exports ⁵⁾							
38	Meat.....	1,000 t	839	1,626	2,597	2,866	2,927
39	Cattles.....	1,000 t	253	288	340	339	293
40	Other cattles.....	1,000 t	253	288	340	339	293
41	Pigs.....	1,000 t	476	1,131	1,967	2,167	2,157
42	Sheeps.....	1,000 t	3	5	4	7	7
43	Broiler.....	1,000 t	108	203	285	353	469
44	Sausage.....	1,000 t	116	304	492	528	511
45	Beef.....	1,000 t	5	25	36	37	36
46	Other beef.....	1,000 t	5	25	36	37	36
47	Pork.....	1,000 t	92	215	339	370	350
48	Chicken.....	1,000 t	19	64	117	122	126
49	Dairy products.....	1,000 t MFU ⁴⁾	362	401	478	487	500
50	Milk and cream, not concentrated.....	1,000 t MFU ⁴⁾	116	126	123	126	116
51	Milk and cream, concentrated with sugar.....	1,000 t MFU ⁴⁾	55	41	41	44	43
52	Buttermilk, yoghurt, whey and other.....	1,000 t MFU ⁴⁾	60	43	45	46	48
53	Butter.....	1,000 t MFU ⁴⁾	47	70	93	90	99
54	Cheese and quark.....	1,000 t MFU ⁴⁾	85	121	175	181	194

Table 12.3.3: CH₄ emissions by "manure" of products

No.	Products	Maßeinheit	2000	2005	2010	2011	2012
55	Domestic consumption						
56	Meat.....	1,000 t	2,869	3,008	2,736	2,736	2,659
57	Cattles.....	1,000 t	538	424	410	457	467
58	Other cattles 6).....	1,000 t	310	223	228	281	297
59	Pigs.....	1,000 t	1,752	1,813	1,461	1,434	1,339
60	Sheeps.....	1,000 t	68	67	49	49	39
61	Broiler.....	1,000 t	510	704	815	796	814
62	Sausage.....	1,000 t	2,596	2,417	2,610	2,611	2,622
63	Beef.....	1,000 t	450	424	460	455	436
64	Other beef 6).....	1,000 t	300	264	300	296	285
65	Pork.....	1,000 t	1,814	1,605	1,705	1,696	1,704
66	Chicken.....	1,000 t	332	389	444	460	482
67	Dairy products.....	1,000 t MFU ⁴⁾	1,007	1,044	1,115	1,144	1,147
68	Milk and cream, not concentrated.....	1,000 t MFU ⁴⁾	208	214	241	243	248
69	Milk and cream, concentrated with sugar.....	1,000 t MFU ⁴⁾	33	34	31	30	30
70	Buttermilk, yoghurt, whey and other.....	1,000 t MFU ⁴⁾	60	86	105	114	110
71	Butter.....	1,000 t MFU ⁴⁾	427	410	399	418	421
72	Cheese and quark.....	1,000 t MFU ⁴⁾	280	299	338	340	338

1) Emissions by farmyard manure.

2) Source: Own calculations based on the agricultural and production statistics of the Federal Statistical Office.

3) Sources: Own calculations based on data from the Statistischen Jahrbuch für Ernährung, Landwirtschaft und Forsten and of data from Bundesanstalt für Landwirtschaft und Ernährung.

4) MFU =milk fat unity.

5) Source: Own calculations on the basis of foreign trade statistics without preparations of meat.

6) Exports and imports of meat were assigned to the position "other cattle".

Table 12.3.4: N₂O emissions from agriculture^{*)}CO₂ equivalents (million tonnes)

No.	Specification	2000	2005	2010	2011	2012
1	Agriculture total	46.91	44.44	42.22	44.56	43.70
2	Industrial fertilizer.....	3.02	2.94	2.86	2.80	2.79
3	Direct land emissions 1).....	27.40	26.06	24.76	26.30	25.79
4	Pasture fertilizer.....	1.58	1.40	1.33	1.32	1.32
5	Indirect emissions.....	14.91	14.05	13.27	14.14	13.81
	Manure²⁾					
6	Domestic production.....	1.39	1.41	1.43	1.40	1.42
7	Imports.....	1.26	4.02	5.61	6.84	5.75
8	Exports.....	0.40	0.49	0.56	0.57	0.56
9	Domestic consumption.....	2.26	4.95	6.48	7.67	6.61
	Mineral fertilizer					
10	Domestic production.....	11.79	10.38	9.13	10.36	9.54
11	Imports.....	2.52	2.36	2.74	2.99	2.93
12	Exports.....	2.44	1.37	1.49	1.45	1.31
13	Domestic consumption.....	11.86	11.37	10.38	11.90	11.15
	Animal excrement/pasture fertilizer					
14	Domestic production.....	6.38	6.09	6.02	5.95	6.01
15	Imports.....	0.12	0.19	0.22	0.27	0.23
16	Exports.....	0.10	0.05	0.06	0.06	0.05
17	Domestic consumption.....	6.40	6.23	6.18	6.16	6.19
	Crop residues					
18	Domestic production.....	5.18	5.42	5.50	5.82	6.03
19	Exports.....	1.50	1.03	1.15	1.11	0.99
20	Domestic consumption 3).....	3.68	4.39	4.36	4.70	5.05
	Indirect emissions					
21	Domestic production.....	5.18	5.42	5.50	5.82	6.03
22	Exports.....	1.50	1.03	1.15	1.11	0.99
23	Domestic consumption 3).....	3.68	4.39	4.36	4.70	5.05
	Sum					
24	Domestic production.....	39.65	37.35	35.35	37.67	36.81
25	Imports.....	3.90	6.57	8.57	10.09	8.91
26	Exports.....	7.54	4.80	5.42	5.28	4.82
27	Domestic consumption 1).....	36.02	39.12	38.50	42.48	40.90
28	Other emissions - Domestic production.....	7.08	6.93	6.77	6.89	6.89

*) Source: Reporting for the Framework Convention on Climate Change (UNFCCC), own calculations on imports, exports, domestic consumption.

1) With peat drainage, sewage sludge application, N-fixing crops.

2) Without buffalo, horses, donkey and mule.

3) Excl. imports.

Table 12.3.5: N₂O emissions from agriculture^{*)}

2000 = 100

No.	Specification	2000	2005	2010	2011	2012
1	Agriculture total	100	94.7	90.0	95.0	93.2
2	Manure.....	100	97.4	94.8	92.7	92.4
3	Direct land emissions 1).....	100	95.1	90.4	96.0	94.1
4	Pasture fertilizer.....	100	88.3	84.3	83.5	83.1
5	Indirect emissions.....	100	94.2	89.0	94.8	92.6
	Manure²⁾					
6	Domestic production.....	100	101.5	102.7	100.9	102.2
7	Imports.....	100	318.3	444.5	541.2	455.5
8	Exports.....	100	122.1	140.9	142.8	140.7
9	Domestic consumption.....	100	219.2	287.3	340.0	293.2
	Mineral fertilizer					
10	Domestic production.....	100	88.0	77.4	87.9	80.9
11	Imports.....	100	93.7	108.6	118.4	116.1
12	Exports.....	100	56.2	61.0	59.1	53.8
13	Domestic consumption.....	100	95.8	87.5	100.3	94.0
	Animal excrement/pasture fertilizer					
14	Domestic production.....	100	95.5	94.2	93.2	94.1
15	Imports.....	100	155.6	186.3	221.2	189.4
16	Exports.....	100	53.4	56.4	57.6	45.2
17	Domestic consumption.....	100	97.3	96.6	96.2	96.7
	Crop residues					
18	Domestic production.....	100	104.6	106.3	112.3	116.5
19	Exports.....	100	68.3	76.4	74.0	65.6
20	Domestic consumption 3).....	100	119.4	118.5	127.9	137.2
	Indirect emissions					
21	Domestic production.....	100	104.6	106.3	112.3	116.5
22	Exports.....	100	68.3	76.4	74.0	65.6
23	Domestic consumption 3).....	100	119.4	118.5	127.9	137.2
	Sum					
24	Domestic production.....	100	94.2	89.1	95.0	92.8
25	Imports.....	100	168.3	219.6	258.4	228.1
26	Exports.....	100	63.7	71.9	70.1	63.9
27	Domestic consumption 1).....	100	108.6	106.9	117.9	113.6
28	Other emissions - Domestic production.....	100	97.8	95.6	97.2	97.3

*) Source: Reporting for the Framework Convention on Climate Change (UNFCCC), own calculations on imports, exports, domestic consumption.

1) With peat drainage, sewage sludge application, N-fixing crops.

2) Without buffalo, horses, donkey and mule.

3) Excl. imports.

Table 13.1: Forest balance: area
1,000 hectares

No.	Specification	2003	2004	2005	2006
	total				
1	Opening stock.....	11,370	11,375	11,382	11,389
2	Change due to economic activities.....				
3	Afforestation.....	9	10	12	9
4	Deforestation.....	-5	-5	-7	-5
5	Other changes.....				
6	Succession.....	1	2	2	2
7	Natural colonisation.....	0	0	0	0
8	Natural regression.....				
9	Change in use/status.....	0	0	0	0
10	Closing stock.....	11,375	11,382	11,389	11,394
	available for wood supply				
11	Opening stock.....	11,074	11,057	11,033	11,002
12	Change due to economic activities.....				
13	Afforestation.....	9	10	12	9
14	Deforestation.....	-5	-5	-7	-5
15	Other changes.....				
16	Succession.....	1	2	2	2
17	Natural colonisation.....	0	0	0	0
18	Natural regression.....				
19	Change in use/status.....	-23	-30	-39	-29
20	Closing stock.....	11,057	11,033	11,002	10,978
	not available for wood supply				
21	Opening stock.....	296	319	349	387
22	Change due to economic activities.....				
23	Afforestation.....				
24	Deforestation.....				
25	Other changes.....				
26	Succession.....				
27	Natural colonisation.....				
28	Natural regression.....				
29	Change in use/status.....	23	30	39	29
30	Closing stock.....	319	349	387	416

* Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

1) Preliminary results

Table 13.1: Forest balance: area
1,000 hectares

2007	2008	2009	2010	2011	2012	2013	2014 ¹⁾	No.
total								
11,394	11,401	11,405	11,409	11,413	11,417	11,419	11,422	1
								2
10	9	8	8	8	8	7	7	3
-5	-6	-6	-6	-6	-6	-5	-6	4
								5
2	2	2	2	2	1	1	2	6
0	0	0	0	0	0	0	0	7
								8
0	0	0	0	0	0	0	0	9
11,401	11,405	11,409	11,413	11,417	11,419	11,422	11,424	10
available for wood supply								
10,978	10,962	10,943	10,924	10,805	10,786	10,765	10,768	11
								12
10	9	8	8	8	8	7	7	13
-5	-6	-6	-6	-6	-6	-5	-6	14
								15
2	2	2	2	2	1	1	2	16
0	0	0	0	0	0	0	0	17
								18
-23	-23	-23	-123	-23	-23	0	0	19
10,962	10,943	10,924	10,805	10,786	10,765	10,768	10,770	20
not available for wood supply								
416	439	462	485	608	631	654	654	21
								22
								23
								24
								25
								26
								27
								28
23	23	23	123	23	23	0	0	29
439	462	485	608	631	654	654	654	30

Table 13.2: Forest balance: wood supply (physical)mn m³ over bark

No.	Specification	2003	2004	2005	2006	2007	2008
		total					
1	Opening stock.....	3,488	3,523	3,548	3,569	3,582	3,581
2	Gross increment.....	123	123	123	123	123	123
3	Total removals.....	-78	-87	-91	-99	-113	-91
4	Other changes.....	-10	-11	-11	-11	-12	-11
5	Change in use/status.....	0	0	0	0	0	0
6	Closing stock.....	3,523	3,548	3,569	3,582	3,581	3,603
		available for wood supply					
7	Opening stock.....	3,442	3,467	3,479	3,484	3,484	3,471
8	Gross increment.....	120	119	119	119	119	118
9	Total removals.....	-78	-87	-91	-99	-113	-91
10	Other changes.....	-10	-10	-11	-11	-11	-11
11	Change in use/status.....	-7	-9	-12	-9	-7	-7
12	Closing stock.....	3,467	3,479	3,484	3,484	3,471	3,481
		not available for wood supply					
13	Opening stock.....	46	56	69	85	98	110
14	Gross increment.....	3	4	4	4	5	5
15	Total removals.....	0	0	0	0	0	0
16	Other changes.....	0	0	0	0	0	0
17	Change in use/status.....	7	9	12	9	7	7
18	Closing stock.....	56	69	85	98	110	122

* Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

1) Preliminary results.

Table 13.2: Forest balance: wood supply (physical)mn m³ over bark

2009	2010	2011	2012	2013	2014 ¹⁾	No.
total						
3,603	3,638	3,660	3,690	3,719	3,749	1
123	123	123	123	124	118	2
-78	-91	-83	-84	-83	-80	3
-10	-11	-10	-11	-4	-10	4
0	0	0	0	0	0	5
3,638	3,660	3,690	3,719	3,749	3,776	6
available for wood supply						
3,481	3,504	3,480	3,496	3,511	3,535	7
118	117	117	117	117	111	8
-78	-91	-83	-84	-83	-80	9
-10	-11	-10	-10	-4	-10	10
-7	-40	-7	-8	0	0	11
3,504	3,480	3,496	3,511	3,535	3,556	12
not available for wood supply						
122	134	180	193	207	214	13
5	6	7	7	7	7	14
0	0	0	0	0	0	15
0	0	0	0	0	0	16
7	40	7	8	0	0	17
134	180	193	207	215	220	18

Table 13.3: Forest balance: wood supply (monetary)

EUR mn

No.	Specification	2003	2004	2005	2006	2007	2008
total							
1	Opening stock.....	45,470	46,189	48,880	51,469	61,177	82,100
2	Gross increment.....	1,589	1,665	1,754	2,085	2,821	2,898
3	Total removals.....	-1,014	-1,175	-1,321	-1,730	-2,739	-2,187
4	Other changes.....	-136	-152	-158	-192	-265	-266
5	Change in use/status.....	0	0	0	0	0	0
6	Change in classification.....						
7	Revaluation.....	350	2,453	2,448	9,661	21,228	3,284
8	Closing stock.....	46,189	48,880	51,469	61,177	82,100	85,696
available for wood supply							
9	Opening stock.....	45,470	46,189	48,880	51,469	61,177	82,100
10	Gross increment.....	1,589	1,665	1,754	2,085	2,821	2,898
11	Total removals.....	-1,014	-1,175	-1,321	-1,730	-2,739	-2,187
12	Other changes.....	-136	-152	-158	-192	-265	-266
13	Change in use/status.....	-71	-100	-133	-115	-122	-134
14	Change in classification.....						
15	Revaluation.....	350	2,453	2,448	9,661	21,228	3,284
16	Closing stock.....	46,189	48,880	51,469	61,177	82,100	85,696
not available for wood supply							
17	Opening stock.....	x	x	x	x	x	x
18	Gross increment.....	x	x	x	x	x	x
19	Total removals.....	—	—	—	—	—	—
20	Other changes.....	x	x	x	x	x	x
21	Change in use/status.....	71	100	133	115	122	134
22	Change in classification.....	x	x	x	x	x	x
23	Revaluation.....	x	x	x	x	x	x
24	Closing stock.....	x	x	x	x	x	x

* Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

1) Preliminary results.

Table 13.3: Forest balance: wood supply (monetary)

EUR mn

2009	2010	2011	2012	2013	2014 ¹⁾	No.
total						
85,696	62,758	81,349	100,709	107,609	116,575	1
2,108	2,766	3,416	3,626	3,915	3,733	2
-1,370	-2,191	-2,553	-2,678	-2,891	-2,791	3
-180	-242	-279	-305	-326	-322	4
0	0	0	0	0	0	5
						6
-23,400	18,903	18,925	6,429	8,269	-37	7
62,758	81,349	100,709	107,609	116,575	117,159	8
available for wood supply						
85,696	62,758	81,349	100,709	107,609	116,575	9
2,108	2,766	3,416	3,626	3,915	3,733	10
-1,370	-2,191	-2,553	-2,678	-2,891	-2,791	11
-180	-242	-279	-305	-326	-322	12
-97	-645	-149	-172	0	0	13
						14
-23,400	18,903	18,925	6,429	8,269	-37	15
62,758	81,349	100,709	107,609	116,575	117,159	16
not available for wood supply						
x	x	x	x	x	x	17
x	x	x	x	x	x	18
—	—	—	—	—	—	19
x	x	x	x	x	x	20
97	645	149	172	0	0	21
x	x	x	x	x	x	22
x	x	x	x	x	x	23
x	x	x	x	x	x	24

Table 13.4: Economic accounts for forestry and logging^{*)}

EUR mn

No.	Specification	2003	2004	2005	2006
1	Forestry goods input.....	3,515	3,740	4,182	4,917
2	Net annual increment of standing timber in cultivated forests.....	1,589	1,665	1,754	2,085
3	Saw logs.....	1,492	1,632	1,782	2,064
4	Fuel wood.....	91	92	282	302
5	Pulp wood.....	303	304	310	407
6	Small-diameter timber and stumps.....				
7	Own account afforestation and reafforestation.....	0	0	0	0
8	Other forestry products.....	41	48	54	59
9	Cork.....				
10	Forestry and nursery plants.....	0	0	0	0
11	Other forestry products.....	41	48	54	59
12	Forestry services products.....	434	512	594	636
13	Afforestation and reafforestation.....				
14	Other services related to forestry and logging.....	434	512	594	636
15	Forestry output at basic prices.....	3,949	4,252	4,775	5,553
16	Non-forestry secondary activities (inseparable).....	25	27	27	26
17	Output of the forestry 'industry' at basic prices.....	3,975	4,279	4,803	5,579
18	Total intermediate consumption.....	2,100	2,413	2,753	3,423
19	Timber removed by logging.....	1,014	1,175	1,321	1,730
20	Plants.....	36	42	47	49
21	Energy, lubricants.....	113	127	169	213
22	Fertilisers and soil improvers.....	10	12	13	13
23	Plant protection products and pesticides.....	5	6	7	7
24	Maintenance of materials.....	69	80	103	140
25	Maintenance of buildings.....	93	106	121	129
26	Forestry service outputs.....	434	512	594	636
27	Financial intermediation services indirectly measured (FISIM).....				
28	Other goods and services.....	327	353	378	507
29	Gross value added at basic prices.....	1,875	1,867	2,050	2,156
30	Fixed capital consumption.....	257	276	256	232
31	Afforestation and reafforestation.....				
32	Equipment and buildings.....	257	276	256	232
33	Other.....				
34	Net value added at basic prices.....	1,617	1,590	1,794	1,924
35	Other taxes on production.....	34	35	64	45
36	Other subsidies on production.....	39	43	52	46
37	Factor income.....	1,622	1,598	1,782	1,925
38	Compensation of employees.....	1,065	1,107	1,070	1,177
39	Operating surplus / mixed income.....	557	491	712	748
40	Rents and other real estate rental charges payable.....	-3	-5	-4	-8
41	Interest payable.....	-19	-21	-25	-33
42	Interest receivable.....	25	27	27	26
43	Entrepreneurial income.....	561	492	710	733
44	Gross fixed capital formation (excluding deductible VAT).....	174	198	168	229
45	Afforestation and reafforestation.....	0	0	0	0
46	Equipment and buildings.....	170	194	165	226
47	Other.....	4	4	3	3
48	Net fixed capital formation (excluding deductible VAT).....	-83	-78	-88	-3
49	Change in inventories.....	369	238	142	47
50	of which: work in progress.....	369	238	142	47
51	Capital transfer.....				
52	Labour input (in 1,000 AWU) 1).....	n.V	n.V	n.V	38

* Calculation is based on old procedure, because the new method was not yet available.

1) AWU (Annual Work Units) are full-time equivalents of employment. One AWU corresponds to a full-time job of 1,800 hours per year and person.

Table 13.4: Economic accounts for forestry and logging^{*)}

EUR mn

2007	2008	2009	2010	2011	2012	2013	No.
6,420	5,969	4,678	5,797	6,958	7,596	7,915	1
2,821	2,898	2,108	2,766	3,416	3,626	3,915	2
2,655	2,129	1,663	2,017	2,408	2,734	2,810	3
374	370	381	473	472	500	489	4
508	504	445	474	590	669	631	5
							6
0	0	0	0	0	0	0	7
62	68	80	67	72	68	70	8
							9
0	0	0	0	0	0	0	10
62	68	80	67	72	68	70	11
835	713	715	703	833	792	823	12
							13
835	713	715	703	833	792	823	14
7,255	6,682	5,393	6,500	7,790	8,389	8,738	15
38	58	47	42	58	43	42	16
7,294	6,740	5,440	6,541	7,848	8,432	8,780	17
4,692	4,049	3,266	4,046	4,748	4,848	5,199	18
2,739	2,187	1,370	2,191	2,553	2,678	2,891	19
56	61	61	59	70	61	63	20
244	242	229	225	264	268	270	21
14	17	17	17	20	17	17	22
7	9	9	8	10	8	8	23
166	162	173	174	189	203	260	24
172	151	148	149	173	162	167	25
835	713	715	703	833	792	823	26
							27
457	505	544	522	636	659	699	28
2,602	2,692	2,174	2,495	3,100	3,583	3,581	29
248	231	234	219	300	284	335	30
							31
248	231	234	219	300	284	335	32
							33
2,354	2,461	1,940	2,276	2,800	3,299	3,246	34
72	73	84	74	83	65	90	35
25	63	117	53	44	39	47	36
2,307	2,451	1,973	2,255	2,762	3,273	3,203	37
983	1,156	1,038	936	945	956	1,087	38
1,324	1,295	935	1,318	1,817	2,317	2,115	39
-8	-8	-9	-7	-8	-8	-7	40
-36	-60	-52	-49	-53	-60	-84	41
38	58	47	42	58	43	42	42
1,319	1,285	921	1,303	1,814	2,292	2,067	43
222	228	201	172	220	226	272	44
0	0	0	0	0	0	0	45
218	224	197	169	216	222	268	46
4	4	4	3	4	4	4	47
-26	-2	-33	-47	-80	-58	-63	48
-305	311	462	-312	435	470	698	49
-305	311	462	-312	435	470	698	50
							51
46	43	39	39	40	39	40	52

Table 13.5: Supply-use physical tableUnits in accordance with tables of IEAAF⁹⁾

No.	Product	Unit	Use							
			Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together
2003										
1	Standing timber.....	mn m ³ over bark	81.3							81.3
2	Saw logs.....	mn m ³		31.6						31.6
3	Fuel wood.....	mn m ³							3.1	3.1
4	Pulp wood.....	mn m ³		8.7	4.4					13.1
5	Sawn wood and wood-based panels ...	mn m ³		18.5					11.9	30.4
6	Other wood products.....	mn m ³								0.0
7	Pulp	mn tonnes								6.5
8	Paper.....	mn tonnes								18.8
9	Wood waste as a product.....	mn tonnes		5.0						5.0
10	Paper waste as a product.....	mn tonnes			11.3					11.3
2004										
11	Standing timber.....	mn m ³ over bark	91.6							91.6
12	Saw logs.....	mn m ³		34.8						34.8
13	Fuel wood.....	mn m ³							3.6	3.6
14	Pulp wood.....	mn m ³		8.4	5.2					13.6
15	Sawn wood and wood-based panels ...	mn m ³		19.5					12.5	32.0
16	Other wood products.....	mn m ³								0.0
17	Pulp	mn tonnes				6.7				6.7
18	Paper.....	mn tonnes								19.3
19	Wood waste as a product.....	mn tonnes		7.1						7.1
20	Paper waste as a product.....	mn tonnes			12.1					12.1
2005										
21	Standing timber.....	mn m ³ over bark	95.6							95.6
22	Saw logs.....	mn m ³		34.7						34.7
23	Fuel wood.....	mn m ³							4.1	4.1
24	Pulp wood.....	mn m ³		9.1	6.6					15.7
25	Sawn wood and wood-based panels ...	mn m ³		20.1					12.9	33.0
26	Other wood products.....	mn m ³								0.0
27	Pulp	mn tonnes				6.9				6.9
28	Paper.....	mn tonnes				0.0				19.7
29	Wood waste as a product.....	mn tonnes		7.5		0.0				7.5
30	Paper waste as a product.....	mn tonnes			13.7					13.7
2006										
31	Standing timber.....	mn m ³ over bark	103.8							103.8
32	Saw logs.....	mn m ³		37.8						37.8
33	Fuel wood.....	mn m ³							3.9	3.9
34	Pulp wood.....	mn m ³		9.8	6.9					16.7
35	Sawn wood and wood-based panels ...	mn m ³		21.7					13.9	35.6
36	Other wood products.....	mn m ³								0.0
37	Pulp	mn tonnes				7.2				7.2
38	Paper.....	mn tonnes								21.4
39	Wood waste as a product.....	mn tonnes		6.6						6.6
40	Paper waste as a product.....	mn tonnes			15.0					15.0
2007										
41	Standing timber.....	mn m ³ over bark	118.0							118.0
42	Saw logs.....	mn m ³		51.0						51.0
43	Fuel wood.....	mn m ³							4.4	4.4
44	Pulp wood.....	mn m ³		9.7	6.5					16.2
45	Sawn wood and wood-based panels ...	mn m ³		22.4					14.3	36.7
46	Other wood products.....	mn m ³								0.0
47	Pulp	mn tonnes				7.3				7.3
48	Paper.....	mn tonnes								20.9
49	Wood waste as a product.....	mn tonnes		6.9						6.9
50	Paper waste as a product.....	mn tonnes			15.9					15.9
2008										
51	Standing timber.....	mn m ³ over bark	95.4							95.4
52	Saw logs.....	mn m ³		33.1						33.1
53	Fuel wood.....	mn m ³							3.9	3.9
54	Pulp wood.....	mn m ³		8.7	6.3					14.9
55	Sawn wood and wood-based panels ...	mn m ³		14.9					9.5	24.4
56	Other wood products.....	mn m ³								0.0
57	Pulp	mn tonnes				7.4				7.4
58	Paper.....	mn tonnes								20.6
59	Wood waste as a product.....	mn tonnes		6.8						6.8
60	Paper waste as a product.....	mn tonnes			15.4					15.4

Table 13.5: Supply-use physical tableUnits in accordance with tables of IEEAF³⁾

Use			Total	Supply									No.
Final consumption	Capital formation	Exports		Forestry and logging	Manufact ure of wood products	Manufactur e of pulp	Manufactur e of paper	Printing	Recycling	Other	Together	Imports	
2003													
	39.4		113.5	113.5							113.5		1
		3.1	34.7	32.6							32.6	2.0	2
13.4		0.0	13.4	13.3							13.3	0.1	3
		1.5	13.1	12.6							12.6	0.5	4
0.0	0.0	10.7	41.1		32.2						32.2	8.9	5
			0.0								0.0	0.0	6
		0.5	7.0			2.5					2.5	4.5	7
0.0		10.6	29.4				19.3				19.3	10.1	8
		0.7	5.7		5.0					0.0	5.0	0.7	9
		3.3	14.6				12.4			0.0	12.4	2.2	10
2004													
	31.1		113.2	113.2							113.2		11
		4.2	39.0	37.2							37.2	1.8	12
14.6		0.0	14.7	14.6							14.6	0.1	13
		1.4	13.6	13.2							13.2	0.4	14
0.0	0.0	13.2	45.2		35.9						35.9	9.3	15
			0.0								0.0	0.0	16
		0.5	7.2			2.5					2.5	4.7	17
0.0		11.6	30.9				20.4				20.4	10.5	18
		0.8	7.9		6.6					0.0	6.6	1.2	19
		3.6	15.7				13.2			0.0	13.2	2.5	20
2005													
	29.6		112.9	112.9							112.9		21
		5.8	40.6	38.0							38.0	2.6	22
14.2		0.0	14.9	14.5							14.5	0.4	23
		1.0	15.7	15.3							15.3	0.4	24
0.0	0.0	15.0	48.0		39.0						39.0	9.0	25
			0.0								0.0	0.0	26
		0.8	7.7			2.9					2.9	4.8	27
0.0		12.6	32.3				21.7				21.7	10.6	28
0.0		0.6	8.1		6.6					0.0	6.6	1.5	29
		3.4	17.2				14.4			0.0	14.4	2.7	30
2006													
	18.0		112.7	112.7							112.7		31
		5.5	43.3	40.7							40.7	2.6	32
17.5		0.1	17.3	16.8							16.8	0.5	33
		2.0	16.7	15.6							15.6	1.1	34
0.0	0.0	15.7	51.3		41.8						41.8	9.5	35
			0.0								0.0	0.0	36
		1.0	8.2			2.9					2.9	5.3	37
0.0		10.8	32.2				22.7				22.7	9.5	38
		1.1	7.7		5.9					0.0	5.9	1.8	39
		3.3	18.4				15.2			0.0	15.2	3.1	40
2007													
	1.8		112.5	112.5							112.5		41
		5.6	56.6	53.1							53.1	3.5	42
16.8		0.1	17.1	16.6							16.6	0.5	43
		2.0	16.2	15.1							15.1	1.1	44
0.0	0.0	19.5	56.1		42.8						42.8	13.4	45
			0.0								0.0	0.0	46
		1.0	8.3			3.0					3.0	5.3	47
0.0		14.3	35.1				23.3				23.3	11.8	48
		1.5	8.4		5.9					0.0	5.9	2.6	49
		3.5	19.5				15.8			0.0	15.8	3.6	50
2008													
	24.2		112.3	112.3							112.3		51
		4.3	37.4	34.8							34.8	2.6	52
20.1		0.1	19.8	19.3							19.3	0.5	53
		1.6	14.9	14.2							14.2	0.8	54
0.0	0.0	21.1	45.5		33.9						33.9	11.6	55
			0.0								0.0	0.0	56
		1.0	8.5			2.9					2.9	5.6	57
0.0		13.7	34.3				22.8				22.8	11.5	58
		1.2	8.0		5.9					0.0	5.9	2.1	59
		3.7	19.0				15.5			0.0	15.5	3.6	60

Table 13.5: Supply-use physical tableUnits in accordance with tables of IEEAF^{*)}

No.	Product	Unit	Use							
			Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together
2009										
61	Standing timber.....	mn m ³ over bark	81.7							81.7
62	Saw logs.....	mn m ³		28.6						28.6
63	Fuel wood.....	mn m ³							4.6	4.6
64	Pulp wood.....	mn m ³		9.4	6.2					15.6
65	Sawn wood and wood-based panels ...	mn m ³		18.0					11.5	29.5
66	Other wood products.....	mn m ³								0.0
67	Pulp	mn tonnes				5.3				5.3
68	Paper.....	mn tonnes								18.5
69	Wood waste as a product.....	mn tonnes		7.7						7.7
70	Paper waste as a product.....	mn tonnes			14.8					14.8
2010										
71	Standing timber.....	mn m ³ over bark	95.1							95.1
72	Saw logs.....	mn m ³		38.4						38.4
73	Fuel wood.....	mn m ³							5.4	5.4
74	Pulp wood.....	mn m ³		9.2	6.8					16.0
75	Sawn wood and wood-based panels ...	mn m ³		18.4					11.8	30.2
76	Other wood products.....	mn m ³								0.0
77	Pulp	mn tonnes				6.9				6.9
78	Paper.....	mn tonnes								20.0
79	Wood waste as a product.....	mn tonnes		8.1						8.1
80	Paper waste as a product.....	mn tonnes			16.3					16.3
2011										
81	Standing timber.....	mn m ³ over bark	87.3							87.3
82	Saw logs.....	mn m ³		40.1						40.1
83	Fuel wood.....	mn m ³							6.0	6.0
84	Pulp wood.....	mn m ³		8.6	6.6					15.2
85	Sawn wood and wood-based panels ...	mn m ³		19.1					12.2	31.3
86	Other wood products.....	mn m ³								0.0
87	Pulp	mn tonnes				6.6				6.6
88	Paper.....	mn tonnes								20.3
89	Wood waste as a product.....	mn tonnes		7.9						7.9
90	Paper waste as a product.....	mn tonnes			16.1					16.1
2012										
91	Standing timber.....	mn m ³ over bark	87.7							87.7
92	Saw logs.....	mn m ³		35.9						35.9
93	Fuel wood.....	mn m ³							5.5	5.5
94	Pulp wood.....	mn m ³		9.4	6.5					15.9
95	Sawn wood and wood-based panels ...	mn m ³		18.7					11.9	30.6
96	Other wood products.....	mn m ³								0.0
97	Pulp	mn tonnes				6.4				6.4
98	Paper.....	mn tonnes				0.0				20.1
99	Wood waste as a product.....	mn tonnes		7.6		0.0				7.6
100	Paper waste as a product.....	mn tonnes			16.2					16.2
2013										
101	Standing timber.....	mn m ³ over bark	87.2							87.2
102	Saw logs.....	mn m ³		38.5						38.5
103	Fuel wood.....	mn m ³							5.6	5.6
104	Pulp wood.....	mn m ³		9.4	6.3					15.7
105	Sawn wood and wood-based panels ...	mn m ³		18.6					11.9	30.5
106	Other wood products.....	mn m ³								0.0
107	Pulp	mn tonnes				6.1				6.1
108	Paper.....	mn tonnes								19.9
109	Wood waste as a product.....	mn tonnes		7.6						7.6
110	Paper waste as a product.....	mn tonnes			16.5					16.5

*) Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

IEEAF = Integrated Environmental and Economic Accounting for Forests.

Table 13.5: Supply-use physical tableUnits in accordance with tables of IEAAF³⁾

Use			Total	Supply									No.
Final consumption	Capital formation	Exports		Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together	Imports	
2009													
	37.8		112.1	112.1							112.1		61
		2.7	31.3	28.2							28.2	3.1	62
17.6		0.2	18.6	18.2							18.2	0.4	63
		1.2	15.6	14.1							14.1	1.4	64
0.0	0.0	12.8	42.3		34.7						34.7	7.6	65
			0.0								0.0	0.0	66
		1.0	6.3			2.5					2.5	3.8	67
0.0		12.3	30.8				20.9				20.9	9.9	68
		0.4	8.1		5.9					0.0	5.9	2.2	69
		3.8	18.6				15.4			0.0	15.4	3.2	70
2010													
	55.3		110.9	110.9							110.9		71
		2.6	40.9	36.4							36.4	4.5	72
21.9		0.1	23.2	22.8							22.8	0.4	73
		1.2	16.0	12.9							12.9	3.2	74
0.0	0.0	13.5	43.6		34.7						34.7	8.9	75
			0.0								0.0	0.0	76
		1.0	7.9			2.8					2.8	5.1	77
0.0		13.9	33.9				23.1				23.1	10.8	78
		0.5	8.5		6.3					0.0	6.3	2.2	79
		3.2	19.5				15.5			0.0	15.5	3.9	80
2011													
	30.9		110.7	110.7							110.7		81
		2.5	42.5	38.1							38.1	4.5	82
13.0		0.1	16.2	15.7							15.7	0.5	83
		1.2	15.2	12.7							12.7	2.6	84
0.0	0.0	13.1	44.4		34.7						34.7	9.7	85
			0.0								0.0	0.0	86
		1.1	7.7			2.7					2.7	5.0	87
0.0		13.5	33.7				22.7				22.7	11.0	88
		0.5	8.5		6.3					0.0	6.3	2.2	89
		3.5	19.6				15.4			0.0	15.4	4.1	90
2012													
	30.3		110.5	110.5							110.5		91
		2.3	38.2	34.1							34.1	4.1	92
17.4		0.1	19.4	19.0							19.0	0.4	93
		1.2	15.9	13.5							13.5	2.5	94
0.0	0.0	12.3	42.9		33.2						33.2	9.7	95
			0.0								0.0	0.0	96
		1.1	7.5			2.6					2.6	4.8	97
0.0		13.4	33.5				22.6				22.6	10.9	98
		0.6	8.2		6.3					0.0	6.3	1.9	99
		3.1	19.3				15.2			0.0	15.2	4.0	100
2013													
	23.3		110.5	110.5							110.5		101
		2.1	40.6	35.9							35.9	4.7	102
17.6		0.1	19.8	19.0							19.0	0.8	103
		1.2	15.7	12.0							12.0	3.7	104
0.0	0.0	12.5	43.0		33.6						33.6	9.3	105
			0.0								0.0	0.0	106
		1.3	7.4			2.6					2.6	4.7	107
0.0		13.1	33.0				22.4				22.4	10.6	108
		0.6	8.2		6.3					0.0	6.3	1.9	109
		2.8	19.3				15.4			0.0	15.4	3.8	110

Table 13.6: Supply use monetary table^{*)}

EUR bn

No.	Product	Use								
		Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together	Final consumption
2003										
1	Standing timber.....	1,078							1,078	
2	Saw logs.....		995						995	
3	Fuel wood.....							11	11	48
4	Pulp wood.....			21					21	
5	Sawn wood and wood-based panels		4,882						8,003	
6	Other wood products.....								0	
7	Pulp				3,016				3,016	
8	Paper.....								13,949	
9	Wood waste as a product.....		n.v.						n.v.	
10	Paper waste as a product.....			1,073			0		1,073	
2004										
11	Standing timber.....	1,226							1,226	
12	Saw logs.....		1,111						1,111	
13	Fuel wood.....							13	13	54
14	Pulp wood.....			20					20	
15	Sawn wood and wood-based panels		5,135						8,417	
16	Other wood products.....								0	
17	Pulp				3,058				3,058	
18	Paper.....								13,675	
19	Wood waste as a product.....		n.v.						n.v.	
20	Paper waste as a product.....			1,073			0		1,073	
2005										
21	Standing timber.....	1,346							1,346	
22	Saw logs.....		1,011						1,011	
23	Fuel wood.....							45	45	155
24	Pulp wood.....			118					118	
25	Sawn wood and wood-based panels		5,240						8,590	
26	Other wood products.....								0	
27	Pulp				3,025				3,025	
28	Paper.....								13,905	
29	Wood waste as a product.....		n.v.						n.v.	
30	Paper waste as a product.....			1,159			0		1,159	
2006										
31	Standing timber.....	1,807							1,807	
32	Saw logs.....		1,312						1,312	
33	Fuel wood.....							53	53	242
34	Pulp wood.....			140					140	
35	Sawn wood and wood-based panels		6,085						9,975	
36	Other wood products.....								0	
37	Pulp				3,408				3,408	
38	Paper.....								16,289	
39	Wood waste as a product.....		n.v.						n.v.	
40	Paper waste as a product.....			1,280			0		1,280	
2007										
41	Standing timber.....	2,882							2,882	
42	Saw logs.....		2,145						2,145	
43	Fuel wood.....							91	91	349
44	Pulp wood.....			235					235	
45	Sawn wood and wood-based panels		5,792						9,495	
46	Other wood products.....								0	
47	Pulp				3,870				3,870	
48	Paper.....								14,799	
49	Wood waste as a product.....		n.v.						n.v.	
50	Paper waste as a product.....			1,752			0		1,752	
2008										
51	Standing timber.....	2,320							2,320	
52	Saw logs.....		1,630						1,630	
53	Fuel wood.....							69	69	353
54	Pulp wood.....			239					239	
55	Sawn wood and wood-based panels		3,576						5,862	
56	Other wood products.....								0	
57	Pulp				3,713				3,713	
58	Paper.....								15,385	
59	Wood waste as a product.....		n.v.						n.v.	
60	Paper waste as a product.....			1,739			0		1,739	

Table 13.6: Supply use monetary table^{*)}

EUR bn

Use		Total	Supply									No.
Capital formation	Exports		Forestry and logging	Manufact ure of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together	Imports	
2003												
369		1,447	1,589							1,589		1
	256	1,251	1,031						0	1,031	220	2
	0	59	55						0	55	5	3
	45	66	64						0	64	2	4
	3,081	11,085		8,777						8,777	2,307	5
		0								0		6
	231	3,248			1,243					1,243	2,004	7
	7,964	21,913				14,542				14,542	7,371	8
	n.v.	n.v.		n.v.						n.v.	n.v.	9
	286	1,360				1,077				1,077	282	10
2004												
238		1,464	1,665							1,665		11
	289	1,400	1,195						0	1,195	204	12
	1	68	63						0	63	5	13
	50	70	68						0	68	2	14
	3,631	12,049		9,496						9,496	2,553	15
		0								0		16
	267	3,325			1,266					1,266	2,059	17
	8,285	21,961				14,620				14,620	7,341	18
	n.v.	n.v.		n.v.						n.v.	n.v.	19
	291	1,365				1,074				1,074	291	20
2005												
142		1,488	1,754							1,754		21
	346	1,357	1,110						0	1,110	247	22
	2	202	193						0	193	9	23
	60	178	176						0	176	2	24
	3,987	12,577		9,986						9,986	2,591	25
		0								0		26
	361	3,386			1,260					1,260	2,126	27
	9,205	23,110				15,864				15,864	7,246	28
	n.v.	n.v.		n.v.						n.v.	n.v.	29
	272	1,430				1,147				1,147	283	30
2006												
47		1,855	2,085							2,085		31
	415	1,728	1,431						0	1,431	296	32
	2	297	282						0	282	15	33
	72	212	209						0	209	3	34
	4,301	14,276		11,280						11,280	2,996	35
		0								0		36
	489	3,897			1,408					1,408	2,489	37
	8,738	25,027				18,290				18,290	6,737	38
	n.v.	n.v.		n.v.						n.v.	n.v.	39
	268	1,548				1,223				1,223	325	40
2007												
-305		2,577	2,821							2,821		41
	494	2,639	2,255						0	2,255	384	42
	4	443	431						0	431	12	43
	86	321	318						0	318	3	44
	5,221	14,715		11,204						11,204	3,511	45
		0								0		46
	535	4,405			1,636					1,636	2,769	47
	10,339	25,138				16,888				16,888	8,250	48
	n.v.	n.v.		n.v.						n.v.	n.v.	49
	369	2,121				1,649				1,649	473	50
2008												
311		2,631	2,898							2,898		51
	381	2,012	1,739						0	1,739	273	52
	5	426	412						0	412	14	53
	66	305	303						0	303	2	54
	4,269	10,131		7,059						7,059	3,072	55
		0								0		56
	527	4,240			1,479					1,479	2,761	57
	10,556	25,941				17,616				17,616	8,325	58
	n.v.	n.v.		n.v.						n.v.	n.v.	59
	396	2,135				1,676				1,676	458	60

Table 13.6: Supply use monetary table^{*)}

EUR bn

No.	Product	Use								
		Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together	Final consumption
2009										
61	Standing timber.....	1,452						0	1,452	
62	Saw logs.....		1,058						1,058	
63	Fuel wood.....							61	61	233
64	Pulp wood.....			200					200	
65	Sawn wood and wood-based panels		4,865						7,975	
66	Other wood products.....								0	
67	Pulp				2,191				2,191	
68	Paper.....								12,736	
69	Wood waste as a product.....		n.v.						n.v.	
70	Paper waste as a product.....			1,184			0		1,184	
2010										
71	Standing timber.....	1,788							1,788	
72	Saw logs.....		1,874						1,874	
73	Fuel wood.....							81	81	328
74	Pulp wood.....			350					350	
75	Sawn wood and wood-based panels		5,120						8,393	
76	Other wood products.....								0	
77	Pulp				4,099				4,099	
78	Paper.....								14,119	
79	Wood waste as a product.....		n.v.						n.v.	
80	Paper waste as a product.....			2,158			0		2,158	
2011										
81	Standing timber.....	2,684							2,684	
82	Saw logs.....		2,199						2,199	
83	Fuel wood.....							162	162	348
84	Pulp wood.....			344					344	
85	Sawn wood and wood-based panels		5,600						9,180	
86	Other wood products.....								0	
87	Pulp				3,893				3,893	
88	Paper.....								15,449	
89	Wood waste as a product.....		n.v.						n.v.	
90	Paper waste as a product.....			2,526			0		2,526	
2012										
91	Standing timber.....	2,811							2,811	
92	Saw logs.....		2,315						2,315	
93	Fuel wood.....							128	128	404
94	Pulp wood.....			345					345	
95	Sawn wood and wood-based panels		5,398						8,849	
96	Other wood products.....								0	
97	Pulp				3,516				3,516	
98	Paper.....								15,018	
99	Wood waste as a product.....		n.v.						n.v.	
100	Paper waste as a product.....			2,157			0		2,157	
2013										
101	Standing timber.....	3,217							3,217	
102	Saw logs.....		2,616						2,616	
103	Fuel wood.....							132	132	414
104	Pulp wood.....			369					369	
105	Sawn wood and wood-based panels		5,381						8,822	
106	Other wood products.....								0	
107	Pulp				3,367				3,367	
108	Paper.....								14,937	
109	Wood waste as a product.....		n.v.						n.v.	
110	Paper waste as a product.....			2,068			0		2,068	

^{*)} Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.
A comparison with previous results is limited.

Table 13.6: Supply use monetary table^{*)}

EUR bn

Use		Total	Supply									No.
Capital formation	Exports		Forestry and logging	Manufacture of wood products	Manufacture of pulp	Manufacture of paper	Printing	Recycling	Other	Together	Imports	
2009												
462		1,914	2,108							2,108		61
	228	1,286	1,035						0	1,035	251	62
	5	300	277						0	277	22	63
	40	239	237						0	237	2	64
	3,555	11,531		9,113						9,113	2,417	65
		0								0		66
	431	2,622			1,046					1,046	1,577	67
	8,436	21,172				14,342				14,342	6,831	68
	n.v.	n.v.		n.v.						n.v.	n.v.	69
	281	1,464				1,142				1,142	323	70
2010												
-312		1,476	2,766							2,766		71
	246	2,120	1,656						0	1,656	464	72
	5	414	389						0	389	25	73
	43	393	388						0	388	4	74
	3,906	12,299		9,415						9,415	2,884	75
		0								0		76
	563	4,662			1,624					1,624	3,038	77
	10,078	24,197				16,709				16,709	7,488	78
	n.v.	n.v.		n.v.						n.v.	n.v.	79
	399	2,557				1,926				1,926	631	80
2011												
435		3,119	3,416							3,416		81
	264	2,464	1,966						0	1,966	498	82
	5	516	482						0	482	34	83
	46	390	385						0	385	4	84
	3,944	13,124		9,800						9,800	3,325	85
		0								0		86
	604	4,497			1,528					1,528	2,969	87
	10,765	26,214				18,129				18,129	8,086	88
	n.v.	n.v.		n.v.						n.v.	n.v.	89
	514	3,040				2,264				2,264	775	90
2012												
470		3,281	3,626							3,626		91
	238	2,553	2,089						0	2,089	463	92
	5	537	511						0	511	26	93
	41	386	382						0	382	4	94
	3,754	12,603		9,514						9,514	3,089	95
		0								0		96
	592	4,108			1,386					1,386	2,722	97
	10,411	25,429				17,555				17,555	7,874	98
	n.v.	n.v.		n.v.						n.v.	n.v.	99
	390	2,546				1,922				1,922	624	100
2013												
698		3,915	3,915							3,915		101
	225	2,841	2,301						0	2,301	540	102
	4	551	513						0	513	38	103
	39	408	403						0	403	5	104
	3,778	12,600		9,575						9,575	3,025	105
		0								0		106
	669	4,037			1,392					1,392	2,645	107
	10,047	24,984				17,214				17,214	7,770	108
	n.v.	n.v.		n.v.						n.v.	n.v.	109
	332	2,400				1,847				1,847	553	110

Table 13.7: Carbon balance for woody biomass
mn tonnes carbon

No.	Specification	2003	2004	2005	2006	2007
total woody biomass						
1	Opening stock.....	1,256.7	1,270.1	1,280.0	1,288.9	1,294.9
2	Gross increment.....	43.9	44.0	44.0	44.0	44.0
3	Total removals.....	-21.5	-24.1	-25.0	-27.1	-30.6
4	Other changes.....	-9.1	-9.9	-10.1	-10.8	-11.9
5	Change in use/status.....	0.0	0.0	0.0	0.0	0.0
6	Closing stock.....	1,270.1	1,280.0	1,288.9	1,294.9	1,296.5
standing timber - total						
7	Opening stock.....	1,017.9	1,028.7	1,036.8	1,044.0	1,048.9
8	Gross increment.....	35.6	35.6	35.6	35.6	35.7
9	Total removals.....	-17.4	-19.5	-20.2	-22.0	-24.8
10	Other changes.....	-7.3	-8.0	-8.2	-8.8	-9.6
11	Change in use/status.....	0.0	0.0	0.0	0.0	0.0
12	Closing stock.....	1,028.7	1,036.8	1,044.0	1,048.9	1,050.2
standing timber - available for wood supply						
13	Opening stock.....	1,004.3	1,012.1	1,016.4	1,018.8	1,019.9
14	Gross increment.....	34.6	34.5	34.4	34.4	34.3
15	Total removals.....	-17.4	-19.5	-20.2	-22.0	-24.8
16	Other changes.....	-7.3	-7.9	-8.2	-8.7	-9.6
17	Change in use/status.....	-2.1	-2.8	-3.6	-2.7	-2.1
18	Closing stock.....	1,012.1	1,016.4	1,018.8	1,019.9	1,017.7
standing timber - not available for wood supply						
19	Opening stock.....	13.6	16.7	20.5	25.2	29.0
20	Gross increment.....	1.0	1.1	1.2	1.3	1.3
21	Total removals.....					
22	Other changes.....	- 0.1	- 0.1	- 0.1	- 0.1	- 0.1
23	Change in use/status.....	2.1	2.8	3.6	2.7	2.1
24	Closing stock.....	16.7	20.5	25.2	29.0	32.5
other woody biomass						
25	Opening stock.....	238.8	241.3	243.2	244.9	246.0
26	Gross increment.....	8.3	8.4	8.4	8.4	8.4
27	Total removals.....	- 4.1	- 4.6	- 4.7	- 5.2	- 5.8
28	Other changes.....	- 1.7	- 1.9	- 1.9	- 2.1	- 2.3
29	Change in use/status.....					
30	Closing stock.....	241.3	243.2	244.9	246.0	246.3

* Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

1) Preliminary results.

Table 13.7: Carbon balance for woody biomass
mn tonnes carbon

2008	2009	2010	2011	2012	2013	2014 ¹⁾	No.
total woody biomass							
1,296.5	1,305.0	1,318.5	1,327.1	1,339.0	1,350.3	1,361.9	1
44.0	44.1	44.1	44.1	44.1	44.2	42.0	2
-25.2	-21.5	-25.2	-22.8	-23.2	-23.0	-22.2	3
-10.3	-9.1	-10.2	-9.5	-9.6	-9.5	-9.3	4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
1,305.0	1,318.5	1,327.1	1,339.0	1,350.3	1,361.9	1,372.4	6
standing timber - total							
1,050.2	1,057.1	1,068.0	1,075.0	1,084.6	1,093.7	1,103.1	7
35.7	35.7	35.7	35.7	35.7	35.8	34.0	8
-20.4	-17.4	-20.4	-18.4	-18.8	-18.6	-18.0	9
-8.3	-7.3	-8.3	-7.7	-7.8	-7.7	-7.5	10
0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
1,057.1	1,068.0	1,075.0	1,084.6	1,093.7	1,103.1	1,111.6	12
standing timber - available for wood supply							
1,017.7	1,021.1	1,028.5	1,022.1	1,027.6	1,032.7	1,040.2	11
34.3	34.2	33.8	33.8	33.7	33.7	32.1	12
-20.4	-17.4	-20.4	-18.4	-18.8	-18.6	-18.0	13
-8.2	-7.3	-8.2	-7.6	-7.7	-7.6	-7.4	14
-2.2	-2.2	-11.6	-2.2	-2.2	0.0	0.0	15
1,021.1	1,028.5	1,022.1	1,027.6	1,032.7	1,040.2	1,046.9	16
standing timber - not available for wood supply							
32.5	35.9	39.5	52.9	56.9	61.0	63.0	17
1.4	1.5	1.9	1.9	2.0	2.0	1.9	18
							19
-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	20
2.2	2.2	11.6	2.2	2.2	0.0	0.0	21
35.9	39.5	52.9	56.9	61.0	63.0	64.7	22
other woody biomass							
246.3	248.0	250.5	252.2	254.4	256.6	258.8	23
8.4	8.4	8.4	8.4	8.4	8.4	8.0	24
-4.8	-4.1	-4.8	-4.3	-4.4	-4.4	-4.2	25
-1.9	-1.7	-1.9	-1.8	-1.8	-1.8	-1.8	26
							27
248.0	250.5	252.2	254.4	256.6	258.8	260.8	28

Table 13.8: Carbon balance for the forest ecosystem
mn tonnes carbon

No.	Specification	2003	2004	2005	2006	2007
forest ecosystem						
1	Opening stock.....	2,237	2,253	2,265	2,275	2,282
2	Change in carbon stored.....	16	12	10	7	2
3	Closing stock.....	2,253	2,265	2,275	2,282	2,284
standing timber						
4	Opening stock.....	1,018	1,029	1,037	1,044	1,049
5	Change in carbon stored.....	11	8	7	5	1
6	Closing stock.....	1,029	1,037	1,044	1,049	1,050
other woody biomass						
7	Opening stock.....	239	241	243	245	246
8	Change in carbon stored.....	3	2	2	1	0
9	Closing stock.....	241	243	245	246	246
other biomass in forest						
10	Opening stock.....	231	234	235	237	238
11	Change in carbon stored.....	2	2	2	1	0
12	Closing stock.....	234	235	237	238	238
forest soils						
13	Opening stock.....	749	749	749	749	749
14	Change in carbon stored.....	—	—	—	—	—
15	Closing stock.....	749	749	749	749	749

* Table has been revised for the years 2003 to 2012 based on the results of the National Forest Inventory 2012.

A comparison with previous results is limited.

1) Preliminary results.

Table 13.8: Carbon balance for the forest ecosystem
mn tonnes carbon

2008	2009	2010	2011	2012	2013	2014 ¹⁾	No.
forest ecosystem							
2,284	2,294	2,310	2,320	2,334	2,348	2,361	1
10	16	10	14	13	14	12	2
2,294	2,310	2,320	2,334	2,348	2,361	2,374	3
standing timber							
1,050	1,057	1,068	1,075	1,085	1,094	1,103	4
7	11	7	10	9	9	9	5
1,057	1,068	1,075	1,085	1,094	1,103	1,112	6
other woody biomass							
246	248	251	252	254	257	259	7
2	3	2	2	2	2	2	8
248	251	252	254	257	259	261	9
other biomass in forest							
238	240	242	244	246	248	250	10
2	2	2	2	2	2	2	11
240	242	244	246	248	250	252	12
forest soils							
749	749	749	749	749	749	749	13
–	–	–	–	–	–	–	14
749	749	749	749	749	749	749	15

Table 13.9: Defoliation ^{*)}

Share of area of foliage damage class, level 2 - 4

No.	Specification	Unit	2002	2003	2004	2005	2006
			total				
1	Transnational survey data.....	%	21	23	31	29	28
2	National survey data.....	%	21	23	31	29	28
3	Corresponding area.....	1,000 ha	10,264	10,320	10,320	10,320	10,320
			coniferous				
4	Transnational survey data.....	%	20	20	26	25	23
5	National survey data.....	%	20	21	26	24	23
6	Corresponding area.....	1,000 ha	6,488	6,523	6,002	6,002	6,002
			broadleaved				
7	Transnational survey data.....	%	25	27	42	36	36
8	National survey data.....	%	23	27	38	37	35
9	Corresponding area.....	1,000 ha	3,776	3,797	4,318	4,318	4,318

^{*)} Transnational and national data refer to area damage class 2 to 4 (forest area, where foliage of treetops is obviously damaged). - With regard to partly different shares by national and international statistics the reference area is given as the total of forest area resp. The total of coniferous or broadleaved area.

Table 13.9: Defoliation ^{*)}

Share of area of foliage damage class, level 2 - 4

2007	2008	2009	2010	2011	2012	2013	2014	No.
total								
25	26	27	23	28	25	23	26	1
25	26	27	23	28	25	23	26	2
10,320	10,347	10,347	10,347	10,347	10,347	10,347	10,628	3
coniferous								
20	24	20	19	20	19	18	20	4
20	24	21	19	21	20	18	20	5
6,002	6,018	5,913	5,913	5,913	5,913	5,737	5,985	6
broadleaved								
33	28	36	29	38	33	30	36	7
32	28	35	28	37	32	29	33	8
4,318	4,329	4,434	4,434	4,434	4,434	4,610	4,643	9