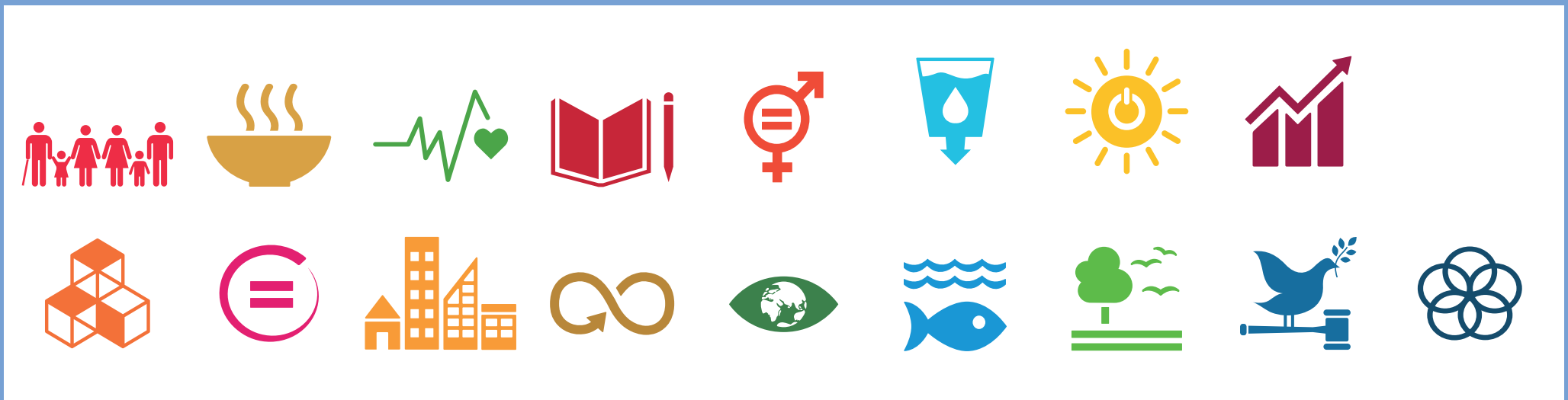


# SUSTAINABLE DEVELOPMENT IN GERMANY

Data to the Indicator Report 2018



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## Preliminary note

This publication "Data to the Indicator Report 2018" is a supplement to the Indicator Report 2018 on sustainable development in Germany. It provides annual data on the sustainability indicators, but also supplies annual data on other interesting aspects relating to sustainability. This supplements some of the background information provided in the text of the indicator sheets. This increases the informative value and transparency of the sustainability indicators.

In addition to (1) the definition of the respective indicator, these pages present (2) the data series of the indicator (in bold print) and the data series of other curves shown in the graph. Supplementary data (3) contains important additional information which may be useful for interpreting the indicator data and in most instances is mentioned in the text. In some cases additional sources for information are listed apart from the data sources.

## List of abbreviations

|                 |  |
|-----------------|--|
| BMEL            | = Bundesministerium für Ernährung und Landwirtschaft<br>(Federal Ministry of Food and Agriculture)     |
| ESVG            | = Europäisches System Volkswirtschaftlicher Gesamtrechnungen<br>(European system of national accounts) |
| EU              | = European Union   |
| Eurostat        | = Statistical Office of the European Communities   |
| e.V.            | = eingetragener Verein<br>(registered association)   |
| GHD             | = Gewerbe, Handel, Dienstleistungen<br>(Business, trade, services)                                     |
| GmbH            | = Gesellschaft mit beschränkter Haftung<br>(Private limited [liability] company)                       |
| ISCED           | = International Standard Classification of Education   |
| ODA             | = Official Development Assistance  |
| OECD            | = Organization for Economic Co-operation and Development   |
| UNFCCC          | = United Nations Framework Convention on Climate Change  |
| WHO             | = World Health Organization  |
| CO <sub>2</sub> | = Carbon dioxide   |
| N               | = Nitrogen   |
| P               | = Phosphorus   |

## Unit

|                 |                    |
|-----------------|--------------------|
| a               | = year             |
| ha              | = hectare          |
| kg              | = kilogram         |
| km <sup>2</sup> | = square kilometre |
| l               | = litre            |
| m <sup>2</sup>  | = square metre     |
| m <sup>3</sup>  | = cubic metre      |
| mg              | = milligram        |
| t               | = tonnes           |
| µg              | = microgram        |
| %               | = percent          |

## Explanation of symbols

|     |  |
|-----|--|
| 0   | = less than half of 1 in the last digit occupied, but more than zero |
| –   | = no figures or magnitude zero                                       |
| ... | = data will be available later                                       |
| /   | = no data because the numerical value is not sufficiently reliable   |
| .   | = numerical value unknown or not to be disclosed                     |

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## 1 No poverty

### Poverty – Limiting poverty

#### 1.1.a Material deprivation

#### 1.1.b Severe material deprivation

##### 1. Definition

Material deprivation describes the lack of specific consumer goods and the involuntary foregoing of discretionary consumption for financial reasons. The two indicators represent the proportion of people out of the total population who are deemed to suffer either material deprivation (1.1.a) or severe material deprivation (1.1.b). The designation of (severe) material deprivation applies to all people whose household meets at least three (severely materially deprived: at least four) of nine defined criteria reflecting the financial restrictions of the household.

##### 2. Data on the time series of the indicators

| Specification  | 2010              | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 <sup>1</sup> |
|--|-------------------|------|------|------|------|------|------|-------------------|
|  | Percentage shares |      |      |      |      |      |      |                   |
| Materially deprived persons in Germany.....          | 11.1              | 12.4 | 11.3 | 11.6 | 11.3 | 10.7 | 9.7  | 9.1               |
| Materially deprived persons in EU-28.....            | 17.8              | 18.5 | 19.8 | 19.5 | 18.5 | 17.0 | 15.7 | 14.7              |
| Severely materially deprived persons in Germany..... | 4.5               | 5.3  | 4.9  | 5.4  | 5.0  | 4.4  | 3.7  | 3.4               |
| Severely materially deprived persons in EU-28.....   | 8.4               | 8.8  | 9.9  | 9.6  | 8.9  | 8.1  | 7.5  | 6.7               |

<sup>1</sup> Estimated values for EU-28.

Sources: Federal Statistical Office, Eurostat

##### 3. Supplementary data

| Specification  | 2010                         | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|------------------------------|------|------|------|------|------|------|------|
|  | Percentage of the population |      |      |      |      |      |      |      |
| The household cannot afford  |                              |      |      |      |      |      |      |      |
| to pay rent or utility bills in time.....  | 4.9                          | 5.2  | 4.8  | 5.1  | 5.6  | 5.2  | 4.2  | 4.4  |
| to keep ist home adequately warm.....  | 5.0                          | 5.2  | 4.7  | 5.3  | 4.9  | 4.1  | 3.7  | 3.3  |
| to face a fixed amount of unexpected financial expenses.....                       | 33.7                         | 34.5 | 33.4 | 32.9 | 32.6 | 30.4 | 30.0 | 29.3 |
| a meal with meat, chicken or fish (or vegetarian equivalent) every second day..... | 8.6                          | 8.8  | 8.2  | 8.4  | 7.5  | 7.1  | 6.5  | 7.0  |
| one week's annual holiday away from home.....                                      | 23.7                         | 22.8 | 21.9 | 22.4 | 21.0 | 19.7 | 18.4 | 15.3 |
| a car.....   | 5.0                          | 7.7  | 7.8  | 7.4  | 6.8  | 7.0  | 6.8  | 6.3  |
| a washing machine.....   | 0.6                          | 0.5  | 0.6  | 0.5  | 0.5  | 0.4  | .    | 0.5  |
| a colour TV.....   | 0.6                          | 0.4  | 0.4  | 0.3  | 0.3  | 0.2  | .    | 0.2  |
| a telephone.....   | 0.2                          | 0.3  | 0.4  | 0.2  | 0.3  | 0.2  | .    | 0.2  |

##### 4. Further information

Eurostat

[ec.europa.eu/eurostat/web/income-and-living-conditions/overview](http://ec.europa.eu/eurostat/web/income-and-living-conditions/overview)

## 2 Zero hunger

Farming – *Environmentally sound production in our cultivated landscapes*

### 2.1.a Nitrogen surplus in agriculture

#### 1. Definition

The indicator represents the annual nitrogen surplus for the agricultural sector, calculated as nitrogen input minus removal of nitrogen, in kilograms per hectare of utilised agricultural area.

#### 2. Data on the time series of the indicator

| Specification                                     | 1990                  | 1992 | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|
|   | Kilograms per hectare |      |      |      |      |      |      |      |      |      |      |
| Nitrogen surpluses on utilised agricultural areas |                       |      |      |      |      |      |      |      |      |      |      |
| Moving five-year average 1.....                   | .                     | 121  | 110  | 105  | 98   | 97   | 97   | 99   | 97   | ...  | ...  |
| Year-on-year average .....                        | 147                   | 115  | 118  | 105  | 95   | 111  | 96   | 97   | 87   | 105  | 102  |

1 The moving five-year average is calculated based on the total balances of the relevant year as well as the two preceding and subsequent years.

#### 3. Supplementary data <sup>2</sup>

| Specification   | 1990  | 1992   | 2000   | 2005   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|   | Balance of nitrogen input and output for agricultural land <sup>3</sup> , kg/ha |        |        |        |        |        |        |        |        |        |        |
| Fertiliser.....   | 123.85  | 103.36 | 121.43 | 108.79 | 98.74  | 111.50 | 103.15 | 103.15 | 104.70 | 113.12 | 106.83 |
| Mineral fertiliser.....                                     | 121.49  | 100.82 | 118.09 | 104.43 | 94.08  | 106.97 | 98.55  | 98.86  | 100.29 | 109.08 | 102.80 |
| Farm manure (imports).....                                  | 0.14  | 0.27   | 0.44   | 0.62   | 0.84   | 0.82   | 0.89   | 0.87   | 0.87   | 0.92   | 0.90   |
| Farmyard manure.....  | 2.22  | 2.26   | 2.91   | 3.74   | 3.82   | 3.71   | 3.72   | 3.42   | 3.54   | 3.12   | 3.13   |
| N-deposition from non-agricultural emissions (NOx).....     | 7.70  | 7.40   | 6.50   | 5.60   | 4.90   | 4.30   | 4.30   | 4.50   | 4.10   | 4.10   | 3.80   |
| Biological N-fixation non-agricultural emissions (NOx)..... | 15.20   | 13.08  | 12.80  | 12.54  | 11.62  | 11.73  | 11.67  | 11.56  | 11.75  | 12.35  | 12.70  |
| Seeds and planting material.....                            | 1.68  | 1.49   | 1.53   | 1.47   | 1.34   | 1.30   | 1.44   | 1.25   | 1.33   | 1.37   | 1.36   |
| Domestic feedstuff (territorial concept).....               | 36.22   | 32.36  | 36.68  | 41.81  | 41.80  | 36.65  | 41.38  | 44.66  | 44.64  | 44.13  | 43.48  |
| Feeding stuff from plants.....                              | 9.27  | 10.30  | 10.52  | 12.65  | 15.51  | 12.42  | 13.27  | 15.06  | 14.30  | 14.43  | 13.85  |
| Feeding stuff from animals.....                             | 3.95  | 3.90   | 2.07   | 0.81   | 0.85   | 0.88   | 0.89   | 0.89   | 0.83   | 1.00   | 1.01   |
| Primary feeding stuff as market products.....               | 23.00   | 18.16  | 24.10  | 28.35  | 25.44  | 23.35  | 27.22  | 28.71  | 29.52  | 28.70  | 28.62  |
| Foreign feedstuff (imports).....                            | 27.63   | 27.60  | 23.04  | 22.73  | 24.75  | 28.99  | 22.53  | 24.22  | 20.72  | 23.81  | 23.35  |
| Coenzyme.....   | 0.01  | 0.02   | 0.24   | 0.80   | 1.75   | 1.82   | 1.84   | 1.97   | 2.01   | 2.15   | 2.20   |
| Input.....  | 212.28  | 185.31 | 202.22 | 193.75 | 184.91 | 196.29 | 186.32 | 191.30 | 189.25 | 201.03 | 193.72 |

| Specification                                  | 1990  | 1992   | 2000   | 2005   | 2010  | 2011   | 2012  | 2013  | 2014   | 2015   | 2016   |
|--|---|--------|--------|--------|-------|--------|-------|-------|--------|--------|--------|
|  | Balance of nitrogen input and output for agricultural land <sup>3</sup> , kg/ha |        |        |        |       |        |       |       |        |        |        |
| Through crop.....                              | 49.24   | 49.90  | 63.95  | 67.34  | 66.46 | 61.01  | 65.50 | 69.83 | 77.09  | 70.32  | 66.25  |
| Cereals 4.....                                 | 38.25   | 37.64  | 49.10  | 50.11  | 48.73 | 45.80  | 48.75 | 52.10 | 56.93  | 53.50  | 49.63  |
| Legumes.....                                   | 0.47  | 0.29   | 1.01   | 0.99   | 0.58  | 0.56   | 0.54  | 0.51  | 0.66   | 1.03   | 1.14   |
| Root crops.....                                | 5.06  | 4.98   | 5.26   | 4.89   | 4.43  | 5.53   | 5.16  | 4.42  | 5.64   | 4.49   | 4.94   |
| Industrial crops (e. g. oliaginous fruit)..... | 3.98  | 5.25   | 7.22   | 10.13  | 11.60 | 7.94   | 9.88  | 11.75 | 12.68  | 10.17  | 9.36   |
| Dry green fodder.....                          | 0.94  | 1.09   | 0.60   | 0.46   | 0.42  | 0.43   | 0.39  | 0.34  | 0.40   | 0.40   | 0.40   |
| Other field crops.....                         | 0.54  | 0.65   | 0.76   | 0.76   | 0.71  | 0.75   | 0.78  | 0.71  | 0.79   | 0.73   | 0.77   |
| Animal market products.....                    | 16.15   | 19.98  | 20.33  | 21.46  | 23.91 | 24.68  | 24.82 | 24.96 | 25.56  | 25.73  | 25.68  |
| Meat.....                                      | 8.34  | 10.17  | 10.48  | 11.67  | 13.69 | 14.12  | 14.05 | 13.98 | 14.26  | 14.32  | 14.21  |
| Other animal products.....                     | 7.82  | 9.81   | 9.86   | 9.79   | 10.22 | 10.56  | 10.77 | 10.98 | 11.31  | 11.41  | 11.47  |
| Output.....                                    | 65.39   | 69.88  | 84.28  | 88.80  | 90.37 | 85.69  | 90.32 | 94.79 | 102.66 | 96.05  | 91.93  |
| Balance.....                                   | 146.89  | 115.43 | 117.93 | 104.94 | 94.54 | 110.60 | 96.00 | 96.51 | 86.59  | 104.98 | 101.80 |

2 Data for 1990 partly uncertain, for 2016 partly provisional.

3 Due to methodological changes, the results can only be compared to a limited extent with data from previous publications. Due to the accuracy shown in the tables, there may be differences in some of the interim results.

4 Cereals excl. cereal grains and CCM (Corn-Cop-Mix) in biogas plants, until 2009 also excl. whole plant silage in biogas plants.

Sources: Federal Ministry of Food and Agriculture, Statistischer Monatsbericht 06/2018, MBT-0111260-0000 (only available in German)

[www.bmel-statistik.de/fileadmin/user\\_upload/monatsberichte/MBT-0060000-2017.pdf](http://www.bmel-statistik.de/fileadmin/user_upload/monatsberichte/MBT-0060000-2017.pdf)

Institute for Crop and Soil Science, Julius Kühn-Institute and Institute for Landscape Ecology and Resources Management, University of Giessen

#### 4. Further information

Federal Ministry of Food and Agriculture

[www.bmel.de/Homepage/homepage\\_node.html](http://www.bmel.de/Homepage/homepage_node.html)

## 2 Zero hunger

Farming – *Environmentally sound production in our cultivated landscapes*

### 2.1.b Organic farming

#### 1. Definition

The indicator shows the share of total utilised agricultural area in Germany that is cultivated by organically managed farms subject to the control system regulated by the EU legislation on organic farming (Regulation [EC] No. 834/2007 and the implementing rules). It includes land that has been fully converted to organic management as well as areas still undergoing conversion.

#### 2. Data on the time series of the indicator

| Specification   | 1999  | 2001 <sup>1</sup> | 2003 | 2005 <sup>1</sup> | 2007 | 2010 <sup>2,3</sup> | 2012 <sup>1</sup> | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|-------------------|------|-------------------|------|---------------------|-------------------|------|------|------|------|------|
|   | Percentage share of organically farmed land in total utilised agricultural land |                   |      |                   |      |                     |                   |      |      |      |      |      |
| Data from the Federal Statistical Office.....               | 2.9   | 3.6               | 4.3  | 4.6               | 5.1  | 5.6                 | 5.8               | 6.0  | 6.2  | 6.3  | 6.8  | 6.8  |
| Data from the Federal Ministry of Food and Agriculture..... | 2.6   | 3.7               | 4.3  | 4.7               | 5.1  | 5.9                 | 6.2               | 6.4  | 6.3  | 6.5  | 7.5  | 8.2  |

1 Representative results for total utilised agricultural land

2 Until 2007, farms with at least 2 ha, from 2010 with at least 5 ha of utilised agricultural land or with special crops or livestock, if defined thresholds are met or exceeded.

3 Until 2007, low yield permanent pasture and permanent pasture excluded from production classified as 'permanent pasture' and since 2010, classified as 'other land'.

#### 3. Supplementary data

| Specification             | 1999   | 2001    | 2003    | 2005    | 2007    | 2010    | 2012    | 2013      | 2014      | 2015      | 2016      | 2017      |
|---------------------------|--|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|
|                           | Organically farmed land, hectare <sup>4,5</sup>  |         |         |         |         |         |         |           |           |           |           |           |
| Total.....                | 489,093  | 606,531 | 731,177 | 782,475 | 861,161 | 941,480 | 960,200 | 1,009,000 | 1,033,800 | 1,060,291 | 1,135,531 | 1,138,272 |
|                           | Main types of land use of organically farmed land, hectare                                   |         |         |         |         |         |         |           |           |           |           |           |
| Arable land .....         | 252,834  | 293,466 | 348,795 | 377,596 | 411,551 | 427,600 | 412,800 | 419,600   | 447,700   | 445,244   | 478,487   | 483,928   |
| Other lands 6 .....       | 7,159  | 7,820   | 8,422   | 9,175   | 10,938  | 44,253  | 36,400  | 72,600    | 47,900    | 17,349    | 18,027    | 18,306    |
| Permanent pasture 6 ..... | 229,100  | 305,245 | 373,960 | 395,704 | 438,672 | 469,627 | 511,000 | 516,800   | 538,200   | 597,698   | 639,017   | 636,038   |
|                           | Main types of land use of organically farmed land as a percentage of organically farmed land |         |         |         |         |         |         |           |           |           |           |           |
| Arable land .....         | 51.7   | 48.4    | 47.7    | 48.3    | 47.8    | 45.4    | 43.0    | 41.6      | 43.3      | 42.0      | 42.1      | 42.5      |
| Other lands 6 .....       | 1.5  | 1.3     | 1.2     | 1.2     | 1.3     | 4.7     | 3.8     | 7.2       | 4.6       | 1.6       | 1.6       | 1.6       |
| Permanent pasture 6 ..... | 46.8   | 50.3    | 51.1    | 50.6    | 50.9    | 49.9    | 53.2    | 51.2      | 52.1      | 56.4      | 56.3      | 55.9      |

| Specification   | 1999   | 2001     | 2003     | 2005     | 2007     | 2010     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     |
|---|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|   | Total utilised agricultural land, thousand hectare   |          |          |          |          |          |          |          |          |          |          |          |
| Total .....   | 17,151.6   | 16,977.6 | 17,008.0 | 17,035.2 | 16,954.3 | 16,704.0 | 16,667.3 | 16,699.6 | 16,724.8 | 16,730.7 | 16,658.9 | 16,687.3 |
|   | Main types of land use of total utilised agricultural land, thousand hectare                                   |          |          |          |          |          |          |          |          |          |          |          |
| Arable land .....   | 11,821.5   | 11,779.6 | 11,826.9 | 11,903.3 | 11,877.0 | 11,846.6 | 11,834.0 | 11,875.9 | 11,869.2 | 11,846.4 | 11,763.0 | 11,771.9 |
| Other lands 6 .....                                       | 216.3  | 214.3    | 212.8    | 202.9    | 202.5    | 413.4    | 401.3    | 412.3    | 388.2    | 207.2    | 201.5    | 200.4    |
| Permanent pasture 6 .....                                 | 5,113.8  | 4,983.7  | 4,968.3  | 4,929.0  | 4,874.7  | 4,443.9  | 4,432.0  | 4,411.4  | 4,467.4  | 4,677.1  | 4,694.5  | 4,715.0  |
|   | Main types of land use of total utilised agricultural land as a percentage of total utilised agricultural land |          |          |          |          |          |          |          |          |          |          |          |
| Arable land .....   | 68.9   | 69.4     | 69.5     | 69.9     | 70.1     | 70.9     | 71.0     | 71.1     | 71.0     | 70.8     | 70.6     | 70.5     |
| Other lands 6 .....                                       | 1.3  | 1.3      | 1.3      | 1.2      | 1.2      | 2.5      | 2.4      | 2.5      | 2.3      | 1.2      | 1.2      | 1.2      |
| Permanent pasture 6 .....                                 | 29.8   | 29.4     | 29.2     | 28.9     | 28.8     | 26.6     | 26.6     | 26.4     | 26.7     | 28.0     | 28.2     | 28.3     |
|   | Average size of farms, hectare <sup>4</sup>  |          |          |          |          |          |          |          |          |          |          |          |
| Organic farms .....                                       | 51.1   | 52.2     | 52.7     | 57.7     | 59.5     | 56.9     | .        | 56.0     | .        | .        | 57.2     | .        |
| Former territory of the Federal Republic of Germany ..... | 31.9   | 33.5     | 34.1     | 37.4     | 39.5     | 41.9     | .        | 40.4     | .        | .        | 42.8     | .        |
| New Länder .....  | 190.9  | 185.9    | 185.8    | 182.3    | 179.2    | 166.8    | .        | 158.9    | .        | .        | 152.6    | .        |
| Farms in total .....                                      | 36.3   | 38.1     | 40.4     | 42.9     | 45.3     | 55.8     | .        | 58.6     | .        | 59.6     | 60.5     | 62.3     |
| Former territory of the Federal Republic of Germany ..... | 26.1   | 27.1     | 29.3     | 31.2     | 33.1     | 40.7     | .        | 42.9     | .        | 43.7     | 44.5     | 45.6     |
| New Länder 7 .....  | 184.4  | 182.4    | 184.6    | 188.2    | 185.0    | 226.4    | .        | 229.8    | .        | 228.3    | 224.4    | 225.4    |
|   | Organically farmed land (EU-27/EU-28), thousand hectare  |          |          |          |          |          |          |          |          |          |          |          |
| Total (certified and still undergoing conversion) 8.....  | .  | .        | .        | 6,475.8  | 7,268.8  | 9,179.9  | 10,047.9 | 10,070.6 | 10,315.2 | 11,105.9 | 11,931.6 | ...      |
|   | Organically farmed land (EU-27/EU-28), percentage share  |          |          |          |          |          |          |          |          |          |          |          |
| Total (certified and still undergoing conversion) 8.....  | .  | .        | .        | 3.6      | 4.0      | 5.2      | 5.6      | 5.7      | 5.8      | 6.2      | 6.7      | ...      |

4 Until 2007, farms with at least 2 hectare, since 2010 with at least 5 hectare or with special crops or livestock, if fixed thresholds are met or exceeded.

5 Until 2007, total utilised agricultural area of organically operating farms is shown, since 2010 only the organically farmed land.

6 Until 2007, low yield permanent grassland and permanent grassland excluded from production classified as 'permanent grassland' and since 2010, classified as 'other land'.

7 Until 1999 including Berlin-East; since 2001 without Berlin.

8 Eurostat data (estimated). Source: Eurostat, February 2018. - Since 2012 EU-28.

Sources: Federal Statistical Office: Farm structure survey  
Federal Ministry of Food and Agriculture

#### 4. Further information

Statistisches Bundesamt, Agrarstatistik, Fachserie 3 Reihe 2.2.1 (only available in German)

Eurostat

[ec.europa.eu/eurostat/web/agriculture/overview](http://ec.europa.eu/eurostat/web/agriculture/overview)

**2 Zero hunger**

Food security – *Realising globally the right to food*

**2.2 Support for good governance in attaining appropriate nutrition globally**

**1. Definition**

The indicator measures the percentage share of disbursed funds in total expenditure on food security that is used for the implementation of relevant international norms and recommendations for the realisation of the right to food (defined by the Global Strategic Framework of the United Nations Committee on World Food Security).

**2. Data on the time series of the indicator**

| Specification   | 2016             |
|---|------------------|
|   | Percentage share |
| Government section of total ODA expenditures in the area of food security ..... | 32.4             |

**3. Supplementary data**

| Specification  | 2016                    |
|--|-------------------------|
|  | Euros                   |
| Total Official Development Assistance of Germany .....                             | 22,368,222,543          |
| Total official development assistance regarding food security .....                | 1,471,659,019           |
| including:   |                         |
| Official development assistance to support good governance for food security ..... | 476,087,470             |
|  | Percentage share of ODA |
| Total Official Development Assistance of Germany .....                             | 100                     |
| Total official development assistance regarding food security .....                | 6.6                     |
| including:   |                         |
| Official development assistance to support good governance for food security ..... | 2.1                     |

Sources: Federal Ministry for Economic Cooperation and Development  
Federal Ministry of Food and Agriculture

### 3.1.a, b Premature mortality

#### 1. Definition

The indicators comprise deaths among women (3.1.a) and men (3.1.b) in the population below 70 years of age with reference to 100,000 inhabitants of the "old" standardised European population below 70 years (excluding those less than 1 year old).

#### 2. Data on the time series of the indicator

| Specification | 1991   | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------|--|------|------|------|------|------|------|------|------|------|
|               | Deaths per 100,000 population below the age of 70 <sup>1</sup> |      |      |      |      |      |      |      |      |      |
| Women.....    | 235  | 184  | 165  | 155  | 157  | 153  | 156  | 149  | 153  | ...  |
| Men.....      | 492  | 382  | 329  | 301  | 299  | 292  | 292  | 281  | 288  | ...  |

#### 3. Supplementary data

| Specification                                     | 1991   | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | Deaths per 100,000 population below the age of 70 <sup>1</sup> |         |         |         |         |         |         |         |         |         |
| Total.....  | 355  | 281     | 246     | 227     | 227     | 222     | 223     | 214     | 220     | ...     |
|   | Selected causes of death, percentage share                     |         |         |         |         |         |         |         |         |         |
| Cardiovascular diseases.....                      | 31.1   | 27.1    | 25.0    | 22.4    | 21.5    | 21.7    | 21.4    | 21.2    | 21.4    | ...     |
| Malignant neoplasms.....                          | 33.2   | 36.7    | 38.1    | 39.0    | 39.6    | 39.5    | 38.9    | 38.9    | 37.8    | ...     |
| Diseases of the respiratory tracts.....           | 4.0  | 3.9     | 4.2     | 4.8     | 5.0     | 4.7     | 5.3     | 4.9     | 5.5     | ...     |
| Diseases of the digestive tracts.....             | 7.6  | 7.8     | 7.8     | 7.2     | 7.1     | 7.0     | 7.0     | 6.9     | 6.9     | ...     |
| Deaths due to external causes.....                | 11.0   | 10.2    | 9.7     | 9.3     | 9.2     | 9.0     | 8.8     | 9.0     | 8.8     | ...     |
|   | Millions of euros  |         |         |         |         |         |         |         |         |         |
| Total expenditure on health care.....             | –  | 214,098 | 241,326 | 290,424 | 295,857 | 303,309 | 314,639 | 327,577 | 343,513 | 356,537 |
| Investments.....                                  | –  | 6,101   | 6,056   | 6,515   | 6,215   | 6,319   | 6,152   | 6,255   | 6,305   | 6,316   |
| Running expenditure on health care.....           | –  | 207,998 | 235,270 | 283,909 | 289,642 | 296,990 | 308,487 | 321,322 | 337,208 | 350,221 |
| Health prevention and public health services..... | –  | 7,123   | 8,505   | 10,463  | 10,145  | 10,256  | 10,486  | 10,932  | 11,272  | 11,671  |
| Medical services.....                             | –  | 56,956  | 64,106  | 78,347  | 80,421  | 82,260  | 85,263  | 88,029  | 91,775  | 95,430  |
| Nursing and therapeutic services.....             | –  | 53,197  | 58,904  | 70,662  | 73,515  | 76,463  | 80,458  | 84,514  | 90,235  | 94,885  |
| Food and lodging.....                             | –  | 18,263  | 20,439  | 23,666  | 24,324  | 24,869  | 25,706  | 26,412  | 26,742  | 27,567  |
| Health care goods.....                            | –  | 57,461  | 66,008  | 80,476  | 80,572  | 82,199  | 85,061  | 89,767  | 94,180  | 96,797  |
| Patient transport and emergency rescue.....       | –  | 3,461   | 4,006   | 5,041   | 5,345   | 5,599   | 6,005   | 6,238   | 6,784   | 7,101   |
| Administrative services.....                      | –  | 11,535  | 13,303  | 15,255  | 15,320  | 15,344  | 15,507  | 15,430  | 16,218  | 16,771  |

<sup>1</sup> Standardised based on the "old" European population, excluding those under 1 year age.

| Specification  | 1991                              | 2000  | 2005  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |
|--|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | Expenditure on health care, euros |       |       |       |       |       |       |       |       |       |
| Per capita .....                                     | –                                 | 2,628 | 2,967 | 3,617 | 3,686 | 3,771 | 3,902 | 4,045 | 4,205 | 4,330 |
|  | Percentage share                  |       |       |       |       |       |       |       |       |       |
| Expenditure on health care in gross domestic product | –                                 | 10.1  | 10.5  | 11.3  | 10.9  | 11.0  | 11.1  | 11.2  | 11.3  | 11.3  |

| Specification | 1990-1992  | 1999-2001 | 2004-2006 | 2009-2011 | 2010-2012 | 2011-2013 | 2012-2014 | 2013-2015 | 2014-2016 | 2015-2017 |
|---------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|               | Average life expectancy for new-boms, years <sup>2</sup> |           |           |           |           |           |           |           |           |           |
| Girls .....   | 79.3   | 81.1      | 82.1      | 82.7      | 82.8      | 82.9      | 83.1      | 83.1      | 83.2      | 83.2      |
| Boys .....    | 72.9   | 75.1      | 76.6      | 77.7      | 77.7      | 77.9      | 78.1      | 78.2      | 78.3      | 78.4      |
|               | Average life expectancy of today's 70-year-olds, years   |           |           |           |           |           |           |           |           |           |
| Women .....   | –  | 15.4      | 16.0      | 16.5      | 16.6      | 16.7      | 16.8      | 16.8      | 16.9      | 16.9      |
| Men .....     | –  | 12.5      | 13.3      | 13.9      | 13.9      | 14.0      | 14.1      | 14.1      | 14.2      | 14.2      |

<sup>2</sup> Life table 1990-92 former territory of the Federal Republic; life table since 1991-93 Germany. - October 2018

Sources: Federal Statistical Office: Causes of death statistics  
Federal Statistical Office: Health expenditure accounts  
Federal Statistical Office: Natural population change  
Federal Statistical Office: Population and employment  
Federal Statistical Office: Life table Germany

#### 4. Further information

The Federal Health Monitoring System  
[www.gbe-bund.de](http://www.gbe-bund.de)



### 3.1.c, d Smoking rate among adolescents and adults

#### 1. Definition

3.1.c: The smoking rate among adolescents reflects the share of 12 to 17-year-olds who indicate that they smoke regularly or occasionally.

3.1.d: The smoking rate among adults indicates the share of those surveyed aged 15 and above who answered the questions in the microcensus regarding smoking behaviour and who smoke regularly or occasionally.

#### 2. Data on the time series of the indicator

| Specification                       | 1995                           | 1997 | 1999 | 2003 | 2004 | 2005 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------------------------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                     | Smoking rate, percentage share |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Adolescents (12 to 17 years) 1..... | .                              | 28   | .    | 23   | 24   | 20   | .    | 13   | 12   | 12   | .    | 10   | 8    | 7    | ...  |
| Adults (15 years and older) 2.....  | 28                             | .    | 28   | 27   | .    | 27   | 26   | .    | .    | .    | 25   | .    | .    | .    | 22   |

#### 3. Supplementary data

| Specification                       | 1995                           | 1997 | 1999 | 2003 | 2004 | 2005 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------------------------|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                     | Smoking rate, percentage share |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Adolescents (12 to 17 years) 1..... | .                              | 28.1 | .    | 22.5 | 23.5 | 20.0 | .    | 12.9 | 11.7 | 12.0 | .    | 9.7  | 7.8  | 7.4  | ...  |
| of which: female.....               | .                              | 28.9 | .    | 23.2 | 22.7 | 19.3 | .    | 11.5 | 12.4 | 12.6 | .    | 8.9  | 7.8  | ...  | ...  |
| male.....                           | .                              | 27.4 | .    | 21.9 | 24.2 | 20.7 | .    | 14.2 | 11.1 | 11.5 | .    | 10.5 | 7.7  | ...  | ...  |
| Adults (15 years and older) 2.....  | 28.3                           | .    | 28.3 | 27.4 | .    | 27.2 | 25.7 | .    | .    | .    | 24.5 | .    | .    | .    | 22.4 |
| of which: regular.....              | 24.3                           | .    | 24.7 | 24.3 | .    | 23.2 | 21.9 | .    | .    | .    | 20.9 | .    | .    | .    | 18.8 |
| occasionally.....                   | 4.0                            | .    | 3.6  | 3.2  | .    | 4.0  | 3.8  | .    | .    | .    | 3.6  | .    | .    | .    | 3.7  |
| Women (15 years and older) 2.....   | 21.5                           | .    | 22.2 | 22.1 | .    | 22.4 | 21.2 | .    | .    | .    | 20.3 | .    | .    | .    | 18.6 |
| of which: regular.....              | 17.8                           | .    | 18.9 | 19.1 | .    | 18.8 | 17.6 | .    | .    | .    | 17.1 | .    | .    | .    | 15.3 |
| occasionally.....                   | 3.7                            | .    | 3.3  | 3.0  | .    | 3.7  | 3.5  | .    | .    | .    | 3.2  | .    | .    | .    | 3.3  |
| Men (15 years and older) 2.....     | 35.6                           | .    | 34.7 | 33.2 | .    | 32.2 | 30.5 | .    | .    | .    | 29.0 | .    | .    | .    | 26.4 |
| of which: regular.....              | 31.3                           | .    | 30.9 | 29.8 | .    | 27.9 | 26.4 | .    | .    | .    | 25.1 | .    | .    | .    | 22.3 |
| occasionally.....                   | 4.3                            | .    | 3.8  | 3.4  | .    | 4.3  | 4.1  | .    | .    | .    | 3.9  | .    | .    | .    | 4.0  |

1 Polls from 1993, 1997, 2001, 2003 to 2005, 2007, 2008, 2010 to 2012 and 2014 to 2016. Source: Federal Centre for Health Education

2 In relation to the population with information on smoking habits. Polls from 1992, 1995, 1999, 2003, 2005, 2009, 2013 and 2017. Source: Federal Statistical Office

| Specification   | 1995  | 1997   | 1999   | 2003   | 2004   | 2005   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016 | 2017 |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|
|   | Number of deaths due to cancer, attributed to smoking <sup>3</sup>              |        |        |        |        |        |        |        |        |        |        |        |        |      |      |
| Total .....   | 38,935  | 38,908 | 39,177 | 40,865 | 41,342 | 42,217 | 43,638 | 44,457 | 45,489 | 45,908 | 46,332 | 46,609 | 46,755 | ...  | ...  |
| Women.....  | 8,481   | 8,978  | 9,625  | 10,833 | 11,195 | 11,870 | 13,265 | 13,815 | 14,503 | 14,930 | 15,370 | 15,748 | 16,086 | ...  | ...  |
| Men.....  | 30,454  | 29,930 | 29,552 | 30,032 | 30,147 | 30,347 | 30,373 | 30,642 | 30,986 | 30,978 | 30,962 | 30,861 | 30,669 | ...  | ...  |
|   | Deaths due to cancer, attributed to smoking as a percentage share of all deaths |        |        |        |        |        |        |        |        |        |        |        |        |      |      |
| Total .....   | 4.4   | 4.5    | 4.6    | 4.8    | 5.1    | 5.1    | 5.1    | 5.2    | 5.3    | 5.3    | 5.2    | 5.4    | 5.1    | ...  | ...  |
| Women.....  | 1.8   | 1.9    | 2.1    | 2.4    | 2.6    | 2.7    | 3.0    | 3.1    | 3.3    | 3.3    | 3.3    | 3.5    | 3.4    | ...  | ...  |
| Men.....  | 7.4   | 7.5    | 7.6    | 7.6    | 7.9    | 7.8    | 7.5    | 7.5    | 7.6    | 7.4    | 7.2    | 7.3    | 6.8    | ...  | ...  |
|   | Average age, years  |        |        |        |        |        |        |        |        |        |        |        |        |      |      |
| Of all deceased.....                                    | 74.6  | 74.9   | 75.3   | 76.1   | 76.1   | 76.4   | 77.2   | 77.4   | 77.5   | 77.9   | 78.1   | 78.1   | 78.4   | ...  | ...  |
| Of deceased due to cancer, attributed to smoking 3..... | 68.2  | 68.2   | 68.6   | 69.0   | 69.1   | 69.4   | 70.1   | 70.0   | 70.1   | 70.2   | 70.4   | 70.6   | 70.7   | ...  | ...  |

<sup>3</sup> Lung, bronchial, laryngeal and tracheal cancer.

Sources: Federal Statistical Office: Microcensus, Question on health problems

Federal Statistical Office: Causes of death statistics

Bundeszentrale für gesundheitliche Aufklärung (Federal Centre for Health Education): "Rauchverhalten Jugendlicher und junger Erwachsener in Deutschland", Köln - September 2017 (only available in German)

Bundeszentrale für gesundheitliche Aufklärung (Federal Centre for Health Education): "Die Drogenaffinität Jugendlicher in der Bundesrepublik Deutschland 2015", Köln - April 2016 (only available in German)

#### 4. Further information

The Federal Health Monitoring System

[www.gbe-bund.de](http://www.gbe-bund.de)

Bundeszentrale für gesundheitliche Aufklärung (Federal Centre for Health Education)

[www.bzga.de/home/bzga](http://www.bzga.de/home/bzga)

**3 Good health and well-being**  
Health and nutrition – *Living healthy longer*

**3.1.e Obesity rate among adolescents**

**1. Definition**

The indicator shows the proportion of 11 to 17-year-old adolescents suffering from obesity.

**2. Data on the time series of the indicator**

| Specification                                    | 2003 to 2006                 | 2014 to 2017 |
|--|------------------------------|--------------|
|  | Percentage of those surveyed |              |
| Adolescents suffering from obesity (total) ..... | 8.3                          | 8.0          |
| Girls.....                                       | 8.2                          | 7.2          |
| Boys.....  | 8.4                          | 8.7          |

**3. Supplementary data**

| Specification <sup>1</sup>           | 2003 to 2006                 |       |      | 2014 to 2017 <sup>1</sup> |       |      |
|--------------------------------------|------------------------------|-------|------|---------------------------|-------|------|
|                                      | Total                        | Girls | Boys | Total                     | Girls | Boys |
|                                      | Percentage of those surveyed |       |      |                           |       |      |
| Underweight (< P10) .....            | 7.4                          | 7.1   | 7.7  | 8.4                       | 7.5   | 9.2  |
| Normal weight .....                  | 74.5                         | 75.0  | 74.0 | 72.9                      | 74.8  | 71.2 |
| Overweight and obesity (> P90) ..... | 18.1                         | 17.8  | 18.3 | 18.7                      | 17.8  | 19.6 |
| Overweight (> P90 - 97) .....        | 9.8                          | 9.7   | 10.0 | 10.7                      | 10.6  | 10.9 |
| Obesity (> P97) .....                | 8.3                          | 8.2   | 8.4  | 8.0                       | 7.2   | 8.7  |

Note:

For children and adolescents, the definition of underweight, normal weight, overweight and obesity is not based on fixed thresholds but on percentiles.

<sup>1</sup> Special evaluation.

Note: The comparison between the KiGGS baseline study (2003 to 2006) and the KiGGS Wave 2 (2014 to 2017) is based only on measured data and has been age-standardised to the population in 2015.

Sources: Schienkiewitz A, Brettschneider AK, Damerow S, Schaffrath Rosario A (2018): Overweight and obesity among children and adolescents in Germany. Results of the cross-sectional KiGGS Wave 2 study and trends. *Journal of Health Monitoring* 3(1): 15-22. DOI 10.17886/RKI-GBE-2018-022.2  
Schienkiewitz A, Damerow S, Schaffrath Rosario A (2018): Prevalence of underweight, overweight and obesity among children and adolescents in Germany. KiGGS Wave 2 results according to international reference systems. *Journal of Health Monitoring* 3(3): 56-69. DOI 10.7886/RKI-GBE-2018-087

**4. Further information**

Robert Koch-Institut

*Journal of Health Monitoring* 3/2018: Health situation of children and adolescents in Germany

[www.rki.de/Health\\_Monitoring](http://www.rki.de/Health_Monitoring)

**3 Good health and well-being**  
 Health and nutrition – *Living healthy longer*

**3.1.f Obesity rate among adults**

**1. Definition**

The indicator shows the proportion of adults (aged 18 years and older) suffering from obesity in the total adult population.

**2. Data on the time series of the indicator**

| Specification                                  | 1999  | 2003 | 2005 | 2009 | 2013 | 2017 |
|--|---|------|------|------|------|------|
|  | Percentage share of the age-standardised new European population (1990) |      |      |      |      |      |
| Share of adults suffering from obesity 1 ..... | 10.7  | 11.7 | 12.5 | 13.3 | 14.1 | 14.6 |
| Women.....                                     | 10.2  | 11.2 | 11.8 | 12.4 | 12.8 | 12.9 |
| Men.....                                       | 11.1  | 12.3 | 13.0 | 14.2 | 15.4 | 16.3 |

1 In relation to the population with information on height and body weight.

### 3. Supplementary data

| Specification                 | 2017   |           |         |               |   |           |         |               |   |           |         |               |
|-------------------------------|--|-----------|---------|---------------|---|-----------|---------|---------------|---|-----------|---------|---------------|
|                               | Total  |           |         |               | Women   |           |         |               | Men   |           |         |               |
|                               | of which have a body mass index of ... to under ...  |           |         |               | of which have a body mass index of ... to under ... |           |         |               | of which have a body mass index of ... to under ... |           |         |               |
|                               | lower than 18,5  | 18,5 - 25 | 25 - 30 | 30 and higher | lower than 18,5                                     | 18,5 - 25 | 25 - 30 | 30 and higher | lower than 18,5                                     | 18,5 - 25 | 25 - 30 | 30 and higher |
|                               | People according to body mass index <sup>2</sup> and age groups as a percentage share of the age-standardised new European population (1990) |           |         |               |   |           |         |               |   |           |         |               |
| Total.....                    | 2.5  | 49.0      | 33.9    | 14.6          | 4.0   | 57.3      | 25.8    | 12.9          | 1.0   | 41.3      | 41.5    | 16.3          |
| at the age of... to under ... |  |           |         |               |   |           |         |               |   |           |         |               |
| 18 - 20 .....                 | 8.6  | 72.3      | 14.8    | 4.2           | 12.1  | 73.2      | 11.3    | 3.4           | 5.7   | 71.6      | 17.8    | 5.0           |
| 20 - 25 .....                 | 5.3  | 68.4      | 20.3    | 6.0           | 8.5   | 73.0      | 13.7    | 4.9           | 2.6   | 64.4      | 26.0    | 7.0           |
| 25 - 30 .....                 | 3.3  | 59.9      | 27.3    | 9.4           | 6.0   | 67.7      | 18.3    | 8.0           | 1.0   | 53.5      | 34.9    | 10.6          |
| 30 - 35 .....                 | 2.5  | 54.6      | 31.1    | 11.9          | 4.4   | 64.6      | 20.9    | 10.1          | 0.8   | 45.8      | 40.1    | 13.4          |
| 35 - 40 .....                 | 2.0  | 50.9      | 33.8    | 13.3          | 3.6   | 62.8      | 22.8    | 10.8          | 0.5   | 40.4      | 43.6    | 15.5          |
| 40 - 45 .....                 | 1.6  | 46.6      | 36.1    | 15.7          | 3.0   | 59.9      | 24.8    | 12.3          | 0.3   | 34.8      | 46.2    | 18.7          |
| 45 - 50 .....                 | 1.4  | 44.5      | 37.8    | 16.2          | 2.7   | 57.8      | 26.8    | 12.7          | 0.3   | 32.7      | 47.6    | 19.4          |
| 50 - 55 .....                 | 1.4  | 42.2      | 38.5    | 18.0          | 2.4   | 54.4      | 28.4    | 14.8          | 0.4   | 31.0      | 47.6    | 20.9          |
| 55 - 60 .....                 | 1.2  | 39.3      | 39.8    | 19.7          | 2.2   | 50.5      | 30.8    | 16.6          | 0.4   | 28.8      | 48.2    | 22.6          |
| 60 - 65 .....                 | 1.2  | 36.0      | 40.7    | 22.0          | 2.1   | 45.2      | 33.3    | 19.5          | 0.4   | 27.0      | 48.1    | 24.5          |
| 65 - 70 .....                 | 1.0  | 33.3      | 42.2    | 23.5          | 1.5   | 40.9      | 35.9    | 21.7          | 0.4   | 25.6      | 48.7    | 25.3          |
| 70 - 75 .....                 | 1.1  | 35.0      | 42.8    | 21.2          | 1.8   | 41.7      | 36.7    | 19.9          | 0.4   | 27.7      | 49.4    | 22.6          |
| 75 and over .....             | 2.1  | 41.8      | 40.5    | 15.6          | 2.9   | 44.6      | 36.2    | 16.2          | 0.8   | 37.6      | 46.9    | 14.7          |

<sup>2</sup> The categorisation is based on the Body Mass Index (BMI), which is calculated by dividing the body weight (kilograms) by the square of the individual's height (metres). People with a BMI of 25 and above are classified as "overweight" according to the WHO and those with a BMI of 30 as "obese".

Source: Federal Statistical Office: Microcensus, Questions on health problems

### 4. Further information

The Federal Health Monitoring System  
[www.gbe-bund.de](http://www.gbe-bund.de)

### 3 Good health and well-being

#### Air pollution – Keeping the environment healthy

#### 3.2.a Emissions of air pollutants

##### 1. Definition

The indicator presents the mean value of the indices of national emissions for the five air pollutants sulphur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>), volatile organic compounds (NMVOC) and particulate matter (PM<sub>2.5</sub>).

##### 2. Data on the time series of the indicator

| Specification                   | 2005       | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |
|---------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                 | 2005 = 100 |       |       |       |       |       |       |       |       |       |       |       |
| Air pollutants overall 1.....   | 100        | 99.6  | 96.3  | 93.6  | 88.0  | 91.1  | 89.4  | 86.4  | 86.3  | 83.3  | 83.5  | 82.5  |
| Sulphur dioxide.....            | 100        | 100.3 | 96.8  | 96.1  | 84.1  | 86.8  | 84.7  | 80.8  | 79.1  | 75.9  | 77.0  | 75.2  |
| Nitrogen oxides.....            | 100        | 99.4  | 95.0  | 90.5  | 84.3  | 86.0  | 85.0  | 82.6  | 82.5  | 80.1  | 78.6  | 77.1  |
| Ammonia.....                    | 100        | 100.1 | 100.5 | 101.3 | 103.3 | 100.1 | 104.9 | 102.9 | 105.6 | 105.8 | 107.2 | 106.0 |
| Volatile organic compounds..... | 100        | 100.9 | 96.0  | 91.6  | 84.3  | 93.0  | 86.6  | 84.6  | 83.5  | 77.8  | 78.5  | 79.5  |
| Particulate matter 2.5 µg.....  | 100        | 97.2  | 93.3  | 88.6  | 84.1  | 89.7  | 85.9  | 81.2  | 80.9  | 77.0  | 76.4  | 74.7  |

##### 3. Supplementary data

| Specification                   | 2005         | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    |
|---------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                 | 1,000 tonnes |         |         |         |         |         |         |         |         |         |         |         |
| Air pollutants overall 1.....   | 826.7        | 826.9   | 796.1   | 769.5   | 720.6   | 748.9   | 731.8   | 711.6   | 710.1   | 683.2   | 683.1   | 677.5   |
| Sulphur dioxide.....            | 473.0        | 474.2   | 457.7   | 454.5   | 397.8   | 410.7   | 400.6   | 382.3   | 374.1   | 358.8   | 364.1   | 355.7   |
| Nitrogen oxides.....            | 1,577.6      | 1,568.3 | 1,499.1 | 1,427.7 | 1,330.5 | 1,357.3 | 1,341.5 | 1,303.7 | 1,302.3 | 1,263.3 | 1,239.4 | 1,216.9 |
| Ammonia.....                    | 625.1        | 625.8   | 628.0   | 633.2   | 645.9   | 625.7   | 655.7   | 643.5   | 659.9   | 661.5   | 670.2   | 662.5   |
| Volatile organic compounds..... | 1,323.0      | 1,335.2 | 1,269.8 | 1,212.3 | 1,115.3 | 1,229.9 | 1,145.0 | 1,119.1 | 1,104.7 | 1,028.6 | 1,038.8 | 1,051.7 |
| Particulate matter 2.5 µg.....  | 135.0        | 131.2   | 125.9   | 119.7   | 113.6   | 121.1   | 116.0   | 109.6   | 109.3   | 103.9   | 103.2   | 100.8   |

1 Unweighted arithmetic mean.

| Specification                            | 2005  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|---|------|------|------|------|------|------|------|------|------|------|------|
|  | Percentage share of individual air pollutants |      |      |      |      |      |      |      |      |      |      |      |
| Emission by emits                        |   |      |      |      |      |      |      |      |      |      |      |      |
| SO <sub>2</sub> Energy sector .....      | 53.0  | 53.2 | 55.7 | 52.2 | 57.4 | 56.4 | 58.2 | 61.0 | 62.0 | 61.6 | 59.7 | 59.5 |
| Transport sector .....                   | 2.8   | 1.8  | 2.0  | 1.9  | 1.8  | 1.3  | 1.2  | 1.3  | 1.3  | 1.3  | 0.5  | 0.5  |
| NO <sub>x</sub> Energy sector .....      | 18.3  | 19.0 | 20.9 | 21.4 | 22.3 | 23.1 | 23.6 | 23.6 | 23.9 | 23.7 | 23.8 | 24.2 |
| Transport sector .....                   | 51.1  | 50.1 | 48.4 | 45.4 | 44.9 | 42.9 | 42.2 | 42.3 | 42.1 | 42.1 | 40.8 | 39.9 |
| NH <sub>3</sub> Agriculture .....        | 92.9  | 92.8 | 93.4 | 93.6 | 94.0 | 94.1 | 94.4 | 94.4 | 94.7 | 94.8 | 95.0 | 95.0 |
| NM VOC Industry .....                    | 57.3  | 58.4 | 57.9 | 57.1 | 54.5 | 58.9 | 57.2 | 58.1 | 57.6 | 55.2 | 55.7 | 56.3 |
| PM <sub>2.5</sub> Transport sector ..... | 34.2  | 32.9 | 32.4 | 31.1 | 29.5 | 26.1 | 26.3 | 26.5 | 25.5 | 26.2 | 24.8 | 24.8 |
| Households and small consumers .....     | 22.4  | 23.3 | 22.7 | 25.1 | 26.9 | 30.9 | 27.8 | 26.3 | 26.9 | 23.9 | 25.2 | 26.4 |

Source: German Environment Agency

#### 4. Further information

Federal Statistical Office: Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 3 (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft

German Environment Agency

[www.umweltbundesamt.de/en/topics/air](http://www.umweltbundesamt.de/en/topics/air)

[www.umweltbundesamt.de/en/data](http://www.umweltbundesamt.de/en/data)

### 3 Good health and well-being

Air pollution – Keeping the environment healthy

#### 3.2.b Share of the population with excessive exposure to PM<sub>10</sub> in Germany

##### 1. Definition

The indicator shows the number of persons who are exposed at their place of residence to an annual average of more than 20 micrograms (µg) of PM<sub>10</sub> particulate matter (dust particles with a diameter less than 10 µg) per cubic metre (m<sup>3</sup>) of air (only background pollution, without local sources).

##### 2. Data on the time series of the indicator

| Specification                                   | 2007     | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 <sup>1</sup> |
|---|----------|------|------|------|------|------|------|------|-------------------|
|   | Millions |      |      |      |      |      |      |      |                   |
| Population with excessive exposure to PM10..... | 50.1     | 25.1 | 28.5 | 28.9 | 36.6 | 12.2 | 14.3 | 12.4 | 4.3               |

<sup>1</sup> The data is based on so called background pollution data, which do not include measuring stations that are exposed to direct particulate matter emission e.g. from transport ("hot spots").

Therefore, the data should be regarded as conservative estimates.

Part of the sharp decline between 2014 and 2015 is presumably due to the fact that there were exceptionally few periods of air stagnation in 2015.

##### 3. Supplementary data

| Specification                      | 2007  | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|------------------------------------|---|------|------|------|------|------|------|------|------|
|                                    | Population accordig to particular matter pollution class, millions <sup>1</sup> |      |      |      |      |      |      |      |      |
| Pollution class, µg/m <sup>3</sup> |   |      |      |      |      |      |      |      |      |
| < 10 .....                         | .   | 0.0  | .    | .    | 0.1  | 0.1  | 0.2  | 0.5  | 0.3  |
| ≥ 10 - < 15.....                   | 1.2   | 8.2  | 12.2 | 8.5  | 5.7  | 16.5 | 15.8 | 14.9 | 19.3 |
| ≥ 15 - < 20.....                   | 30.7  | 48.7 | 41.2 | 44.6 | 39.5 | 53.1 | 51.5 | 54.1 | 57.9 |
| ≥ 20 - < 25.....                   | 46.6  | 22.8 | 24.5 | 25.6 | 33.1 | 12.1 | 14.2 | 11.8 | 4.3  |
| ≥ 25 - < 30.....                   | 3.4   | 2.1  | 3.9  | 3.1  | 3.3  | 0.1  | 0.1  | 0.6  | 0.0  |
| ≥ 30 - < 35.....                   | 0.2   | 0.1  | 0.1  | 0.1  | 0.1  | .    | .    | .    | .    |
| ≥ 35 - < 40.....                   | .   | 0.0  | .    | .    | .    | .    | .    | .    | .    |
| ≥ 40.....                          | .   | .    | .    | .    | .    | .    | .    | .    | .    |
|                                    | Population-weighted particulate matter concentration, µg/m <sup>3</sup>         |      |      |      |      |      |      |      |      |
| Annual average.....                | 20.7  | 18.6 | 18.7 | 18.9 | 19.5 | 17.2 | 17.3 | 17.3 | 16.5 |

<sup>1</sup> The calculation is based on the respective distribution of population density. 2005 as the basis for the years 2007 to 2010 and 2011 as the basis for the years 2011 to 2015.

Source: German Environment Agency, World Health Organization

##### 4. Further information

German Environment Agency

[www.umweltbundesamt.de/en/topics/air/particulate-matter-pm10](http://www.umweltbundesamt.de/en/topics/air/particulate-matter-pm10)



#### 4 Quality education

Education – *Continuously improving education and vocational training*

##### 4.1.a Early school leavers (18 to 24-year-olds leaving school without graduation)

###### 1. Definition

The indicator shows the 18 to 24-year-olds as a proportion of all people of the same age group who currently do not attend any school or institution of higher education, who are not attending any continuing education/training programmes and who have not completed upper secondary education (ISCED level 3-university entrance qualification or completed course of vocational training).

###### 2. Data on the time series of the indicator

| Specification | 1999   | 2000 | 2005 | 2006 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------|--|------|------|------|------|------|------|------|------|------|------|------|
|               | 18 to 24-year-olds leaving school without graduation as a proportion of all 18 to 24-year-olds |      |      |      |      |      |      |      |      |      |      |      |
| Total.....    | 14.9   | 14.9 | 13.8 | 14.1 | 11.9 | 11.6 | 10.4 | 9.8  | 9.5  | 9.8  | 10.3 | 10.1 |
| Female.....   | 15.6   | 15.2 | 14.2 | 13.8 | 11.0 | 10.6 | 9.7  | 9.3  | 9.0  | 9.5  | 9.6  | 9.0  |
| Male.....     | 14.2   | 14.6 | 13.5 | 14.4 | 12.7 | 12.5 | 11.0 | 10.3 | 10.0 | 10.1 | 11.0 | 11.1 |

###### 3. Supplementary data

| Specification  | 1999  | 2000    | 2005    | 2006    | 2010 <sup>1</sup> | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|--|---|---------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|
|  | 18 to 24-year-olds leaving school without graduation, thousands   |         |         |         |                   |         |         |         |         |         |         |         |
| Total.....   | 749   | 756     | 930     | 944     | 784               | 765     | 668     | 625     | 574     | 581     | 623     | 614     |
| Female.....  | 394   | 385     | 474     | 456     | 361               | 345     | 305     | 286     | 263     | 272     | 276     | 260     |
| Male.....  | 356   | 372     | 456     | 489     | 423               | 421     | 364     | 339     | 311     | 309     | 347     | 354     |
|  | Number of school leavers without a secondary general school certificate and graduates from schools of general education |         |         |         |                   |         |         |         |         |         |         |         |
| Without a secondary general school certificate<br>("Hauptschule") .....                                  | 83,761  | 86,601  | 78,152  | 75,897  | 53,058            | 49,560  | 47,648  | 46,295  | 46,950  | 47,435  | 49,193  | 52,685  |
| Female.....  | 29,928  | 30,560  | 28,396  | 28,040  | 20,707            | 19,686  | 18,917  | 18,466  | 18,602  | 18,348  | 18,749  | 19,827  |
| Male.....  | 53,833  | 56,041  | 49,756  | 47,857  | 32,351            | 29,874  | 28,731  | 27,829  | 28,348  | 29,087  | 30,444  | 32,858  |
| With a secondary general school certificate.....   | 239,401   | 234,340 | 237,712 | 237,247 | 179,753           | 168,660 | 157,498 | 151,314 | 146,649 | 139,948 | 139,243 | 134,389 |
| With a secondary general school certificate<br>("Realschule" certificate).....                           | 374,295   | 372,810 | 398,749 | 398,176 | 350,856           | 339,758 | 344,527 | 377,364 | 375,791 | 370,094 | 369,230 | 356,812 |
| With higher education entrance qualification for<br>applied sciences universities ("Fachhochschulreife") | 9,193   | 10,160  | 12,407  | 14,260  | 13,455            | 13,769  | 13,945  | 1,068   | 841     | 973     | 778     | 628     |
| With higher education entrance qualification for<br>general universities .....                           | 225,845   | 229,705 | 231,465 | 244,018 | 268,194           | 311,166 | 305,172 | 319,293 | 280,490 | 287,862 | 297,167 | 287,298 |

| Specification   | 1999  | 2000    | 2005    | 2006    | 2010 <sup>1</sup> | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|---|---------|---------|---------|-------------------|---------|---------|---------|---------|---------|---------|---------|
|   | School leavers without graduation and graduates as a proportion of the resident population of the same age <sup>1,2</sup> |         |         |         |                   |         |         |         |         |         |         |         |
| Without a secondary general school certificate ("Hauptschule") .....  | 9.1   | 9.6     | 8.1     | 7.9     | 6.6               | 6.3     | 6.0     | 5.7     | 5.8     | 6.0     | 6.1     | 6.6     |
| Female.....   | 6.7   | 6.9     | 6.0     | 6.0     | 5.3               | 5.1     | 4.9     | 4.7     | 4.7     | 4.7     | 4.5     | 4.8     |
| Male.....   | 11.4  | 12.1    | 10.0    | 9.7     | 7.8               | 7.4     | 7.0     | 6.7     | 6.8     | 7.1     | 7.8     | 8.6     |
| With a secondary general school certificate.....  | 26.1  | 25.9    | 24.5    | 24.7    | 22.3              | 21.4    | 19.8    | 18.6    | 18.0    | 17.6    | 17.3    | 16.9    |
| With a secondary general school certificate ("Realschule" certificate).....                                 | 40.8  | 41.2    | 41.1    | 41.4    | 43.5              | 43.2    | 43.3    | 46.4    | 46.2    | 46.5    | 45.8    | 44.8    |
| With higher education entrance qualification for applied sciences universities ("Fachhochschulreife") ..... | 1.0   | 1.1     | 1.3     | 1.5     | 1.4               | 1.5     | 1.6     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     |
| With higher education entrance qualification for general universities .....                                 | 24.8  | 24.6    | 24.6    | 25.5    | 28.4              | 34.2    | 35.2    | 38.8    | 34.6    | 34.8    | 34.2    | 32.5    |
|   | Number  |         |         |         |                   |         |         |         |         |         |         |         |
| New closed contracts for vocational training 2.....   | 635,559   | 622,967 | 559,061 | 581,181 | 559,032           | 565,824 | 549,003 | 525,897 | 518,394 | 516,639 | 509,997 | 514,900 |

1 Lines 14 - 18: Average of the resident population aged 15 to under 17 by 31.12. of the respective preceding year, lines 19 - 20: Average of the resident population aged 18 to under 21 by 31.12. of the respective preceding year. Method of quota summation. Since 2012 census 2011 is taken into account.

2 Until reference year 2008 data as of 31.12.2008 (Federal Statistical Office, Statistic on vocational training). Due to the redesign of the statistics in 2007, the comparability of the results before and after the adjustment is limited. 2017 preliminary.

Sources: Statistisches Bundesamt, Fachserie 11, Reihe 1 "Allgemeinbildende Schulen"  
Statistisches Bundesamt, Fachserie 11, Reihe 3 "Berufsbildungsstatistik"  
Federal Statistical Office: Microcensus

#### 4. Further information

Statistische Ämter des Bundes und der Länder: Internationale Bildungsindikatoren im Ländervergleich (only available in German)

[www.destatis.de/Laender-Regionen/Internationales](http://www.destatis.de/Laender-Regionen/Internationales)

→ Publikationen: Internationale Bildungsindikatoren im Ländervergleich - Ausgabe 2017

#### 4 Quality education

Education – *Continuously improving education and vocational training*

##### 4.1.b 30 to 34-year-olds with a tertiary or post-secondary non-tertiary level of education

###### 1. Definition

The indicator specifies the proportion of 30 to 34-year-olds who hold a certificate from the tertiary education sector (level 5 to 8 of the International Standard Classification of Education, ISCED, 2011) or a post-secondary non-tertiary certificate (level 4 of the ISCED).

###### 2. Data on the time series of the indicator

| Specification  | 1999  | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|---|------|------|------|------|------|------|------|------|------|------|
|  | 30 to 34-year-olds who have completed a programme of tertiary or post-secondary non-tertiary education <sup>1,2</sup> as a proportion of all 30 to 34-year-olds |      |      |      |      |      |      |      |      |      |      |
| Total.....   | 33.4  | 33.0 | 36.0 | 41.3 | 42.2 | 43.4 | 44.5 | 45.7 | 46.8 | 47.9 | 48.8 |
| Female.....  | 31.4  | 30.9 | 35.0 | 42.7 | 44.4 | 46.0 | 46.8 | 48.4 | 50.5 | 51.3 | 52.6 |
| Male.....  | 35.2  | 35.0 | 37.0 | 40.0 | 40.1 | 40.9 | 42.2 | 42.9 | 43.1 | 44.6 | 45.2 |
| memorandum item:   |   |      |      |      |      |      |      |      |      |      |      |
| 30- to 34-year-olds with a tertiary level of education 3 ..... | 24.8  | 25.3 | 26.1 | 29.8 | 30.7 | 31.9 | 33.1 | 31.4 | 32.3 | 33.1 | 34.0 |

###### 3. Supplementary data

| Specification                            | 1999  | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|--|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|  | 30 to 34-year-olds with a tertiary level of education <sup>3</sup> in % |         |         |         |         |         |         |         |         |         |         |
| Total (ISCED 5A, 5B, 6).....             | 24.8  | 25.3    | 26.1    | 29.8    | 30.7    | 31.9    | 33.1    | 31.4    | 32.3    | 33.1    | 34.0    |
| Female.....                              | 21.4  | 21.8    | 24.1    | 29.7    | 31.5    | 32.9    | 34.0    | 30.8    | 32.3    | 32.9    | 34.2    |
| Male.....                                | 28.1  | 28.8    | 28.0    | 29.9    | 29.8    | 30.9    | 32.2    | 31.9    | 32.2    | 33.3    | 33.8    |
| Total EU 4.....                          | .   | 22.4    | 28.1    | 33.8    | 34.8    | 36.0    | 37.1    | 37.9    | 38.7    | 39.1    | 39.9    |
|  | 25 to 34-year-olds with tertiary level of education <sup>3</sup> in %   |         |         |         |         |         |         |         |         |         |         |
| Total.....                               | 21.6  | 22.3    | 22.5    | 26.1    | 27.6    | 28.9    | 30.0    | 28.4    | 29.6    | 30.5    | 31.3    |
| Female.....                              | 19.7  | 20.4    | 22.1    | 27.4    | 29.7    | 31.2    | 32.1    | 28.9    | 30.6    | 31.5    | 32.5    |
| Male.....                                | 23.3  | 24.0    | 22.9    | 24.8    | 25.7    | 26.7    | 27.9    | 27.9    | 28.6    | 29.6    | 30.2    |
|  | Number of university graduates in Germany by field of study             |         |         |         |         |         |         |         |         |         |         |
| Total.....                               | 221,696   | 214,473 | 252,482 | 361,697 | 392,171 | 413,338 | 436,420 | 460,503 | 481,588 | 491,678 | 501,734 |
| including:                               |   |         |         |         |         |         |         |         |         |         |         |
| Engineering.....                         | 42,335  | 39,270  | 39,407  | 59,249  | 69,737  | 77,775  | 85,094  | 91,897  | 100,401 | 126,938 | 129,646 |
| Mathematics, natural sciences.....       | 32,537  | 30,379  | 39,693  | 63,497  | 67,656  | 70,343  | 74,258  | 78,179  | 80,473  | 55,160  | 55,133  |
| Legal, economic and social sciences..... | 72,038  | 69,750  | 87,338  | 119,392 | 127,853 | 133,380 | 139,756 | 146,835 | 153,991 | 192,308 | 198,220 |
| Humanities.....                          | 36,752  | 36,770  | 42,738  | 66,071  | 70,092  | 73,570  | 78,717  | 83,044  | 84,071  | 53,417  | 52,741  |
| Human medicine.....                      | 18,830  | 19,104  | 20,440  | 23,752  | 24,829  | 24,982  | 25,657  | 27,041  | 28,133  | 30,068  | 30,640  |
| Arts.....                                | 9,218   | 9,462   | 11,724  | 14,805  | 16,030  | 16,945  | 17,107  | 17,131  | 17,182  | 17,124  | 17,343  |

| Specification                                 | 1999   | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|--|------|------|------|------|------|------|------|------|------|------|
|   | University graduates in Germany by field of study, percentage share                    |      |      |      |      |      |      |      |      |      |      |
| Engineering.....                              | 19   | 18   | 16   | 16   | 18   | 19   | 19   | 20   | 21   | 26   | 26   |
| Mathematics, natural sciences.....            | 15   | 14   | 16   | 18   | 17   | 17   | 17   | 17   | 17   | 11   | 11   |
| Legal, economic and social sciences.....      | 32   | 33   | 35   | 33   | 33   | 32   | 32   | 32   | 32   | 39   | 40   |
| Humanities.....                               | 17   | 17   | 17   | 18   | 18   | 18   | 18   | 18   | 17   | 11   | 11   |
| Human medicine.....                           | 8  | 9    | 8    | 7    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Arts.....                                     | 4  | 4    | 5    | 4    | 4    | 4    | 4    | 4    | 4    | 3    | 3    |
|   | Percentage of all university graduates   |      |      |      |      |      |      |      |      |      |      |
| Foreign graduates.....                        | 3.4  | 3.7  | 7.0  | 7.8  | 7.7  | 7.5  | 7.4  | 7.4  | 7.6  | 7.8  | 8.3  |
|   | Percentage of first year students by university degree                                 |      |      |      |      |      |      |      |      |      |      |
| Bachelor's degree.....                        | 0.7  | 1.8  | 24.0 | 70.7 | 72.8 | 72.8 | 72.7 | 72.4 | 71.7 | 71.4 | 70.4 |
| Master's degree.....                          | 0.3  | 0.7  | 1.9  | 3.6  | 3.7  | 4.6  | 5.0  | 5.4  | 6.0  | 6.2  | 6.5  |
| Diploma and Master's programmes 5.....        | 43.1   | 43.3 | 29.5 | 7.7  | 7.3  | 6.8  | 6.7  | 6.7  | 6.7  | 6.5  | 6.5  |
| State examination and other 6.....            | 55.9   | 54.3 | 44.7 | 18.0 | 16.2 | 15.9 | 15.6 | 15.5 | 15.6 | 15.9 | 16.7 |
|   | Average age of graduates completing a degree for the first time <sup>7,8</sup> , years |      |      |      |      |      |      |      |      |      |      |
| Total.....                                    | 28.3   | 28.2 | 27.8 | 26.9 | 26.6 | 26.6 | 26.5 | 24.4 | 24.1 | 24.1 | 23.9 |
| Bachelor's degree.....                        | -  | 30.5 | 25.8 | 25.4 | 25.5 | 25.6 | 25.7 | 23.8 | 23.7 | 23.7 | 23.5 |
| Master's degree.....                          | -  | 27.0 | 28.1 | 28.0 | 29.1 | 28.5 | 28.3 | 25.9 | 26.1 | 26.2 | 26.1 |
| Diploma from general university.....          | 28.3   | 28.3 | 28.1 | 27.8 | 27.9 | 28.0 | 28.3 | 26.6 | 26.4 | 26.0 | 25.8 |
| Diploma from applied sciences university..... | 28.6   | 28.4 | 27.8 | 28.1 | 28.4 | 29.0 | 29.0 | 26.2 | 25.7 | 25.3 | 25.3 |

1 Results of Microcensus.

2 Until 2013 ISCED 97, the indicator refers to ISCED-level 4, 5A, 5B and 6. As of 2014 revised ISCED. The indicator refers to ISCED-level 4, 5, 6, 7 and 8.

3 Until 2013 ISCED 97, the indicator refers to ISCED-level 5A, 5B and 6. As of 2024 revised ISCED. The indicator refers to ISCED-level 5, 6, 7 and 8.

4 Until 2004 EU 27, since 2005 EU 28.

5 Percentage share of 25- to 34-year-old university graduates, according to (ISCED 5A/6); excluding colleges of public administration.

6 Examination group diploma (U) and corresponding final examinations; since academic year 2007 university degree (without teacher's examination), the included Bachelor's and Master's degrees have been deducted.

7 Examination groups: teachers' examinations, doctorates, other degree, degree of arts, degree of university of applied sciences; since the academic year 2007, the examination groups degree of arts and Bachelor's and Master's degrees are deducted.

8 Since 2011 graduates with a master degree are not taken into account as receiving a degree for the first time.

Note on footnotes 6 and 7:

As of the winter semester 2007/2008, the classification of examinations for the University Statistics has been completely revised. The examination groups "Bachelor's degree" and "Master's degree" were deleted and the final examinations were allocated to other examination groups, e. g.: the final examination Bachelor's degree (U) was allocated from the examination group Bachelor's degree to the examination group "University degree (without teacher's examination)".

Sources: Federal Statistical Office: Microcensus  
Federal Statistical Office: University Statistics

#### 4. Further information

Statistisches Bundesamt: Hochschulen auf einen Blick (only available in German)

[www.destatis.de/Bildung-Forschung-Kultur/Hochschulen](http://www.destatis.de/Bildung-Forschung-Kultur/Hochschulen)

→ Publikationen: Hochschulen auf einen Blick - Ausgabe 2018

Statistische Ämter des Bundes und der Länder: Internationale Bildungsindikatoren im Ländervergleich (only available in German)

[www.destatis.de/Laender-Regionen/Internationales](http://www.destatis.de/Laender-Regionen/Internationales)

→ Publikationen: Internationale Bildungsindikatoren im Ländervergleich - Ausgabe 2017

#### 4 Quality education

Prospects for families – Improving the compatibility of work and family life

##### 4.2.a, b All-day care provision for children

###### 1. Definition

The indicator shows children in all-day care on the reference date of 1 March as a proportion of all children of the same age group on 31 December of the previous year. All-day childcare is provided for a contractually agreed, continuous care period of more than seven hours per day; day care in private homes and care of pupils are not included. Indicator 4.2.a refers to the group of 0 to 2-year-old children, indicator 4.2.b to the group of 3 to 5-year-old children.

###### 2. Data on the time series of the indicator

| Specification                                   | 2006   | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|
|   | Percentage of all children of the same age group |      |      |      |      |      |      |      |      |      |      |      |      |
| Children aged 0 to 2-years in all-day care..... | 5.9  | 6.5  | 7.3  | 8.7  | 10.2 | 11.3 | 12.7 | 13.7 | 15.3 | 15.9 | 16.2 | 16.2 | 16.5 |
| Children aged 3 to 5-years in all-day care..... | 22.0   | 24.2 | 26.9 | 29.7 | 32.1 | 34.7 | 36.9 | 39.1 | 41.4 | 43.7 | 44.5 | 45.3 | 45.9 |

###### 3. Supplementary data

| Specification  | 2006                     | 2007      | 2008      | 2009      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018    |
|--|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
|  | Number                   |           |           |           |           |           |           |           |           |           |           |           |         |
| Children in institutional all-day care                         |                          |           |           |           |           |           |           |           |           |           |           |           |         |
| 0 to 2-year olds.....  | 2,069,988                | 2,050,818 | 2,048,350 | 2,042,457 | 2,038,965 | 2,007,147 | 2,024,569 | 2,039,731 | 2,106,703 | 2,200,407 | 2,304,035 | 2,351,851 | ...     |
| 3 to 5-year-olds.....  | 2,175,175                | 2,141,500 | 2,105,783 | 2,074,882 | 2,060,656 | 2,056,777 | 2,060,996 | 2,068,768 | 2,067,559 | 2,130,002 | 2,162,060 | 2,227,015 | ...     |
| All-day school pupils <sup>1</sup>                             |                          |           |           |           |           |           |           |           |           |           |           |           |         |
| in general education schools.....                              | 1,484,462                | 1,718,740 | 1,923,805 | 2,102,081 | 2,141,846 | 2,321,000 | 2,439,156 | 2,601,861 | 2,717,397 | 2,820,157 | 3,069,778 | ...       | ...     |
| including: primary schools.....                                | 399,666                  | 499,591   | 566,103   | 620,783   | 645,816   | 732,427   | 784,932   | 846,450   | 891,663   | 933,283   | 1,106,432 | ...       | ...     |
| Children aged 6 to 13-years in institutional all-day care..... | 99,389                   | 105,964   | 113,330   | 123,650   | 131,654   | 140,726   | 153,790   | 167,517   | 182,987   | 189,282   | 197,957   | 209,592   | 211,944 |
| Children aged 6 to 13-years in part-time care 2 .....          | 660,466                  | 668,111   | 656,821   | 650,952   | 643,993   | 640,535   | 618,331   | 613,261   | 606,454   | 610,649   | 621,810   | 639,896   | 645,749 |
| Children in publicly supported childminding services.....      | .                        | 19,600    | .         | 28,263    | 33,003    | 36,798    | 43,054    | 46,599    | 49,631    | 51,134    | 53,607    | 57,794    | 60,986  |
|  | Percentage of all pupils |           |           |           |           |           |           |           |           |           |           |           |         |
| All-day school pupils <sup>1</sup>                             |                          |           |           |           |           |           |           |           |           |           |           |           |         |
| in general education schools.....                              | 17.6                     | 20.9      | 24.1      | 27.1      | 28.3      | 31.0      | 33.1      | 35.8      | 37.7      | 39.3      | 42.5      | ...       | ...     |
| including: primary schools.....                                | 12.7                     | 16.2      | 18.9      | 21.4      | 22.8      | 26.4      | 28.7      | 31.4      | 33.1      | 34.5      | 40.1      | ...       | ...     |

<sup>1</sup> Information by the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany. - Compared to the last issue of this publication, the Federal State of Schleswig-Holstein has revised its data for the years 2009 to 2011.

<sup>2</sup> Revised data for 2026.

Note: Until 2008: 15 March. Since 2009 date of survey: 1 March.

| Specification   | 2006    |            | 2010    |            | 2015    |            | 2016    |            | 2017    |            | 2018      |            |
|---|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|-----------|------------|
|   | Number  | Percentage | Number  | Percentage | Number  | Percentage | Number  | Percentage | Number  | Percentage | Number    | Percentage |
| <b>Children aged 0 to 2-years in institutional all-day care</b> |         |            |         |            |         |            |         |            |         |            |           |            |
| Baden-Württemberg.....  | 4,968   | 1.7        | 12,373  | 4.5        | 26,472  | 9.3        | 28,653  | 9.6        | 29,981  | 9.6        | 31,280    | 9.7        |
| Bavaria.....  | 6,340   | 1.9        | 14,300  | 4.5        | 31,720  | 9.4        | 33,481  | 9.6        | 35,099  | 9.6        | 36,909    | 9.8        |
| Berlin.....   | 16,611  | 19.4       | 22,767  | 24.0       | 29,269  | 27.5       | 30,618  | 27.8       | 31,992  | 27.5       | 33,594    | 28.5       |
| Brandenburg.....  | 12,297  | 22.1       | 16,865  | 29.4       | 19,522  | 33.2       | 20,540  | 34.0       | 21,201  | 33.5       | 22,066    | 34.5       |
| Bremen.....   | 436     | 2.7        | 1,020   | 6.2        | 2,491   | 14.3       | 2,677   | 14.4       | 2,795   | 14.0       | 2,894     | 14.2       |
| Hamburg.....  | 4,129   | 8.9        | 7,194   | 14.6       | 11,415  | 21.5       | 12,158  | 21.7       | 14,261  | 24.0       | 14,276    | 23.4       |
| Hesse.....  | 4,654   | 2.9        | 13,285  | 8.5        | 25,840  | 16.1       | 27,809  | 16.5       | 29,401  | 16.6       | 30,723    | 16.9       |
| Mecklenburg-Western Pomerania.....                              | 6,937   | 18.1       | 9,325   | 24.0       | 12,696  | 32.7       | 13,290  | 33.3       | 13,957  | 34.3       | 14,529    | 35.6       |
| Lower Saxony.....   | 2,668   | 1.3        | 7,310   | 3.8        | 18,167  | 9.3        | 20,459  | 10.0       | 22,466  | 10.4       | 24,096    | 10.9       |
| North-Rhine/Westphalia.....                                     | 11,171  | 2.4        | 24,659  | 5.5        | 44,269  | 9.7        | 46,961  | 9.8        | 48,967  | 9.7        | 51,034    | 9.9        |
| Rhineland-Palatinate.....                                       | 2,664   | 2.6        | 6,614   | 6.9        | 14,729  | 14.9       | 16,011  | 15.3       | 17,210  | 15.7       | 17,866    | 15.8       |
| Saarland.....   | 859     | 3.8        | 2,021   | 9.5        | 4,566   | 21.5       | 4,907   | 21.9       | 5,193   | 21.7       | 5,379     | 21.9       |
| Saxony.....   | 19,646  | 20.1       | 29,731  | 29.0       | 38,217  | 35.8       | 40,040  | 36.4       | 41,304  | 36.7       | 42,089    | 37.4       |
| Saxony-Anhalt.....  | 13,513  | 26.4       | 17,562  | 33.7       | 23,464  | 45.5       | 24,026  | 45.1       | 24,710  | 45.4       | 24,956    | 45.7       |
| Schleswig-Holstein.....   | 1,207   | 1.7        | 2,898   | 4.2        | 7,979   | 11.6       | 8,477   | 12.0       | 9,020   | 12.0       | 9,802     | 12.9       |
| Thuringia.....  | 15,436  | 30.4       | 19,738  | 38.4       | 24,525  | 45.9       | 25,440  | 46.3       | 26,421  | 47.7       | 27,213    | 49.2       |
| Germany.....  | 123,536 | 5.9        | 207,662 | 10.2       | 335,341 | 15.9       | 355,547 | 16.2       | 373,978 | 16.2       | 388,706   | 16.5       |
| Former territory of the Federal Republic without Berlin....     | 39,096  | 2.3        | 91,674  | 5.6        | 187,648 | 11.1       | 201,593 | 11.4       | 214,393 | 11.5       | 224,259   | 11.8       |
| New Länder without Berlin (since 2015 including Berlin)         | 67,829  | 23.1       | 93,221  | 30.8       | 147,693 | 35.5       | 123,336 | 38.7       | 159,585 | 36.0       | 164,447   | 36.9       |
| <b>Children aged 3 to 5-years in institutional all-day care</b> |         |            |         |            |         |            |         |            |         |            |           |            |
| Baden-Württemberg.....  | 21,403  | 6.8        | 36,948  | 12.9       | 60,178  | 21.4       | 65,130  | 22.7       | 69,343  | 23.8       | 73,572    | 24.5       |
| Bavaria.....  | 59,873  | 16.8       | 74,820  | 22.8       | 109,915 | 33.9       | 115,505 | 34.6       | 119,618 | 35.1       | 125,254   | 35.5       |
| Berlin.....   | 41,485  | 50.3       | 46,690  | 54.5       | 59,378  | 61.1       | 60,577  | 60.0       | 61,647  | 59.4       | 64,669    | 60.1       |
| Brandenburg.....  | 25,151  | 43.8       | 31,019  | 54.3       | 38,577  | 63.0       | 39,242  | 62.2       | 39,489  | 62.1       | 40,959    | 62.5       |
| Bremen.....   | 3,071   | 18.4       | 3,492   | 22.2       | 5,783   | 35.7       | 6,231   | 36.9       | 6,551   | 38.0       | 7,035     | 38.5       |
| Hamburg.....  | 11,000  | 24.7       | 15,489  | 33.6       | 21,761  | 45.7       | 22,254  | 45.3       | 24,575  | 48.3       | 25,340    | 47.3       |
| Hesse.....  | 37,765  | 22.1       | 57,546  | 36.3       | 76,475  | 48.0       | 81,024  | 49.6       | 83,695  | 50.5       | 87,050    | 51.3       |
| Mecklenburg-Western Pomerania.....                              | 17,640  | 46.1       | 20,983  | 55.9       | 26,607  | 66.5       | 27,066  | 66.6       | 27,201  | 67.2       | 28,254    | 68.7       |
| Lower Saxony.....   | 18,555  | 7.9        | 29,332  | 14.3       | 52,008  | 26.6       | 57,936  | 28.8       | 61,325  | 30.1       | 66,596    | 31.6       |
| North-Rhine/Westphalia.....                                     | 97,043  | 19.0       | 153,870 | 33.3       | 196,883 | 44.1       | 207,469 | 44.9       | 212,215 | 45.4       | 221,880   | 46.0       |
| Rhineland-Palatinate.....                                       | 20,279  | 18.1       | 33,361  | 33.6       | 49,019  | 49.6       | 51,634  | 50.8       | 54,012  | 52.2       | 55,859    | 52.5       |
| Saarland.....   | 3,701   | 14.8       | 5,746   | 25.7       | 9,930   | 46.2       | 10,798  | 48.6       | 11,143  | 49.3       | 12,019    | 52.1       |
| Saxony.....   | 57,131  | 59.5       | 73,115  | 74.8       | 85,109  | 81.0       | 87,637  | 80.9       | 89,096  | 81.8       | 91,250    | 82.1       |
| Saxony-Anhalt.....  | 26,921  | 50.6       | 29,274  | 58.0       | 42,817  | 82.9       | 43,246  | 81.4       | 43,396  | 80.7       | 44,097    | 80.4       |
| Schleswig-Holstein.....   | 8,108   | 10.0       | 11,638  | 16.0       | 20,687  | 29.6       | 22,512  | 31.5       | 24,845  | 34.2       | 26,115    | 35.0       |
| Thuringia.....  | 43,195  | 84.0       | 43,497  | 87.1       | 48,033  | 91.4       | 49,626  | 90.8       | 50,240  | 91.8       | 51,211    | 91.8       |
| Germany.....  | 492,321 | 22.0       | 666,820 | 32.1       | 903,160 | 43.7       | 947,887 | 44.5       | 978,391 | 45.3       | 1,021,160 | 45.9       |
| Former territory of the Federal Republic without Berlin....     | 280,798 | 15.1       | 422,242 | 24.9       | 602,639 | 36.3       | 640,493 | 37.5       | 667,322 | 38.4       | 700,720   | 39.1       |
| New Länder without Berlin (since 2015 including Berlin)         | 170,038 | 57.4       | 197,888 | 67.6       | 300,521 | 73.7       | 246,817 | 77.2       | 311,069 | 73.1       | 320,440   | 73.5       |

Sources: Federal Statistical Office: Statistics of child care, Population Statistics  
Secretariat of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany

#### 4. Further information

Statistische Ämter des Bundes und der Länder: Demografischer Wandel; Heft 3: Auswirkungen auf Schülerzahlen und Kindertagesbetreuung im Bund und in den Ländern, Ausgabe 2009 (only available in German)

## 5 Gender equality

Equality – Promoting equal opportunities in society

### 5.1.a Gender pay gap

#### 1. Definition

The indicator shows the difference between the average gross hourly earnings of women and men expressed as a percentage of the average gross hourly earnings of men.

#### 2. Data on the time series of the indicator

| Specification         | 1995                         | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|-----------------------|------------------------------|------|------|------|------|------|------|------|------|------|------|------|
|                       | Percentage of men's earnings |      |      |      |      |      |      |      |      |      |      |      |
| Gender pay gap 1..... | 21                           | 21   | 21   | 22   | 19   | 21   | 21   | 22   | 23   | 23   | 22   | 23   |

| Specification         | 2007                         | 2008 | 2009 | 2010 | 2011 <sup>2</sup> | 2012 <sup>2</sup> | 2013 <sup>2</sup> | 2014 <sup>2</sup> | 2015 <sup>3</sup> | 2016 <sup>3</sup> | 2017 <sup>3</sup> |
|-----------------------|------------------------------|------|------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                       | Percentage of men's earnings |      |      |      |                   |                   |                   |                   |                   |                   |                   |
| Gender pay gap 1..... | 23                           | 23   | 23   | 22   | 22                | 23                | 22                | 22                | 22                | 21                | 21                |

#### 3. Supplementary data

| Specification                            | 2006  | 2007 | 2008 | 2009 | 2010 | 2011 <sup>2</sup> | 2012 <sup>2</sup> | 2013 <sup>2</sup> | 2014 <sup>2</sup> | 2015 <sup>3</sup> | 2016 <sup>3</sup> | 2017 <sup>3</sup> | 2014                             |
|--|---|------|------|------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------------------|
|  | Percentage of men's earnings <sup>4,5</sup> |      |      |      |      |                   |                   |                   |                   |                   |                   |                   | Adjusted Gender pay gap, percent |
| Unadjusted gender pay gap (Germany)..... | 23  | 23   | 23   | 23   | 22   | 22                | 23                | 22                | 22                | 22                | 21                | 21                | 6                                |
| Baden-Württemberg.....                   | 28  | 28   | 28   | 27   | 27   | 27                | 27                | 27                | 27                | 27                | 27                | 27                | 7                                |
| Bavaria.....                             | 23  | 24   | 25   | 25   | 26   | 25                | 25                | 25                | 25                | 24                | 24                | 24                | 6                                |
| Berlin.....                              | 14  | 14   | 16   | 15   | 14   | 15                | 15                | 14                | 14                | 15                | 14                | 13                | 7                                |
| Brandenburg.....                         | 6   | 7    | 7    | 7    | 7    | 6                 | 7                 | 5                 | 7                 | 4                 | 4                 | 3                 | 10                               |
| Bremen.....                              | 25  | 27   | 27   | 24   | 24   | 24                | 27                | 25                | 25                | 24                | 23                | 23                | 8                                |
| Hamburg.....                             | 20  | 22   | 22   | 23   | 23   | 22                | 24                | 23                | 22                | 21                | 20                | 20                | 6                                |
| Hesse.....                               | 23  | 24   | 24   | 24   | 25   | 25                | 24                | 23                | 24                | 24                | 23                | 24                | 7                                |
| Mecklenburg-Western Pomerania.....       | 2   | 2    | 3    | 3    | 4    | 6                 | 7                 | 6                 | 8                 | 7                 | 6                 | 5                 | 8                                |
| Lower Saxony.....                        | 25  | 24   | 23   | 22   | 22   | 22                | 21                | 20                | 22                | 21                | 20                | 20                | 5                                |
| North-Rhine/Westphalia.....              | 24  | 24   | 24   | 23   | 23   | 23                | 24                | 23                | 23                | 23                | 22                | 22                | 5                                |
| Rhineland-Palatinate.....                | 21  | 22   | 22   | 22   | 22   | 22                | 22                | 22                | 21                | 21                | 20                | 20                | 5                                |
| Saarland.....                            | 24  | 26   | 26   | 25   | 25   | 25                | 25                | 24                | 23                | 24                | 24                | 23                | 5                                |
| Saxony.....                              | 9   | 9    | 9    | 9    | 9    | 10                | 11                | 11                | 11                | 11                | 11                | 11                | 6                                |
| Saxony-anhalt.....                       | 3   | 3    | 3    | 3    | 4    | 5                 | 5                 | 4                 | 5                 | 2                 | 2                 | 2                 | 6                                |
| Schleswig-Holstein.....                  | 18  | 18   | 19   | 18   | 18   | 17                | 18                | 18                | 17                | 17                | 17                | 15                | 5                                |
| Thuringia.....                           | 6   | 5    | 5    | 6    | 6    | 7                 | 8                 | 9                 | 8                 | 10                | 9                 | 8                 | 4                                |

| Specification  | 2009                                      | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 <sup>5</sup> | 2016 <sup>5</sup> |
|--|---|------|------|------|------|------|-------------------|-------------------|
|  | Percentage of men's earnings <sup>6</sup> |      |      |      |      |      |                   |                   |
| Unadjusted gender pay gap (European Union (28))..... | .   | 16   | 17   | 17   | 17   | 17   | 16                | 16                |
| Estonia.....   | 27  | 28   | 27   | 30   | 30   | 28   | 27                | 25                |
| Czech Republic.....                                  | 26  | 22   | 23   | 23   | 22   | 23   | 23                | 22                |
| Austria.....   | 24  | 24   | 24   | 23   | 22   | 22   | 22                | 20                |
| Netherlands.....                                     | 19  | 18   | 19   | 18   | 17   | 16   | 16                | 16                |
| France.....  | 15  | 16   | 16   | 16   | 16   | 16   | 15                | 15                |
| Sweden.....  | 16  | 15   | 16   | 16   | 15   | 14   | 14                | 13                |
| Italy.....   | 6   | 5    | 6    | 7    | 7    | 6    | 6                 | 5                 |
| Luxembourg.....                                      | 9   | 9    | 8    | 7    | 6    | 5    | 6                 | 6                 |
| Belgium.....   | 10  | 10   | 9    | 8    | 8    | 7    | 7                 | 6                 |
| Romania.....   | 7   | 9    | 10   | 7    | 5    | 5    | 6                 | 5                 |
| United Kingdom.....                                  | 21  | 20   | 20   | 21   | 21   | 21   | 21                | 21                |
| Switzerland.....                                     | 18  | 18   | 18   | 17   | 18   | 17   | 17                | 17                |
| Norway.....  | 17  | 16   | 16   | 15   | 16   | 15   | 16                | 15                |

1 Since 2006, the gender pay gap is calculated according to a EU-wide uniform methodology. As a result of this change, the figure is likely to have increased by one percentage point.

2 Revised data.

3 Provisional data.

4 Structure of Earnings survey, updated with the results of the Quarterly Earning survey.

5 Excluding the economic sectors "agriculture, forestry and fishing", "public administration and defence; compulsory social security" and without micro-enterprises.

6 Partly provisional.

Sources: Federal Statistical Office: Earnings survey  
Eurostat (Updated 16.03.2018)

#### 4. Further information

Claudia Finke, Florian Dumpert, Martin Beck: Verdienstunterschiede zwischen Männern und Frauen, in: Statistisches Bundesamt, Wirtschaft und Statistik, 2/2017, S. 43 ff. (only available in German)

[www.destatis.de/WISTA-Wirtschaft-und-Statistik/2017/02/verdienstunterschiede](http://www.destatis.de/WISTA-Wirtschaft-und-Statistik/2017/02/verdienstunterschiede)

Martin Beck: Verdienstunterschiede zwischen Männern und Frauen nach Bundesländern, in: Statistisches Bundesamt, Wirtschaft und Statistik, 4/2018, S. 26 ff. (only available in German)

[www.destatis.de/WISTA-Wirtschaft-und-Statistik/2018/04/verdienstunterschiede-bundeslaender](http://www.destatis.de/WISTA-Wirtschaft-und-Statistik/2018/04/verdienstunterschiede-bundeslaender)



## 5 Gender equality

Equality – Promoting equal opportunities in society

### 5.1.b Women in management positions in business

#### 1. Definition

The indicator shows the share of woman on supervisory boards of listed and fully co-determined companies.

#### 2. Data on the time series of the indicator

| Specification                             | January 2015  | January 2016 | January 2017 | January 2018 |
|---|---|--------------|--------------|--------------|
|   | Percentage for listed and fully co-determined companies |              |              |              |
| Women in management positions in business |   |              |              |              |
| Supervisory board.....                    | 21.3  | 23.8         | 28.1         | 30.9         |
| Board of directors.....                   | 4.9   | 5.9          | 7.1          | 8.2          |

Source: FidAR (Frauen in die Aufsichtsräte e.V.)

#### 3. Supplementary data

| Specification  | Total     | Women  | Men    |
|--|-----------|--------|--------|
|  | Thousands |        |        |
| Executives.....  | 816       | 170    | 646    |
| Academic occupations.....                                | 3,547     | 1,479  | 2,068  |
| Engineers.....   | 6,677     | 3,765  | 2,912  |
| Office workers.....                                      | 5,268     | 3,287  | 1,981  |
| Service provider and shop assistants.....                | 4,959     | 3,354  | 1,605  |
| Skilled labour in agriculture, forestry and fishing..... | 228       | 52     | 176    |
| Craftsmans.....  | 4,310     | 381    | 3,929  |
| Mechanics.....   | 2,597     | 433    | 2,164  |
| Temporary workers.....                                   | 4,578     | 2,815  | 1,763  |
| Armed forces.....  | /         | /      | /      |
| Total.....   | 32,981    | 15,736 | 17,245 |

Note:

Agriculture, forestry, fishing, industries and services excluding public administration and defence; compulsory social security and partially education.

Number of employments, i.e. jobs and individual persons can coincidentally be included several times in the survey with different employers.

Source: Statistisches Bundesamt, Verdienststrukturerhebung 2014

| Specification                         | 2013                              | 2017 |
|---------------------------------------|-----------------------------------|------|
|                                       | Proportion of seats held by women |      |
| In parliament (German Bundestag)..... | 36.3                              | 30.7 |

Source: Federal Returning Officer

| Specification                    | 2015                      | 2016 | 2017 |
|----------------------------------|---------------------------|------|------|
|                                  | Percentage share of women |      |      |
| Supreme federal authorities..... | 32.6                      | 34.0 | 35.3 |

Source: Statistisches Bundesamt, Gleichstellungsindex

#### 4. Further information

Frauen in die Aufsichtsräte e. V. (only available in German)

[www.fidar.de](http://www.fidar.de)

**5 Gender equality**

Equality – *Strengthening the economic participation of women globally*

**5.1.c Vocational qualification of women and girls through German development assistance**

**1. Definition**

The indicator specifies the number of girls and women in developing and emerging countries who were reached by the vocational qualification programmes of German development assistance.

**2. Data on the time series of the indicator**

| Specification  | 2015    |
|--|---------|
|  | Number  |
| Girls und women reached by the vocational qualification programmes of German development assistance..... | 354,841 |
| memorandum item:<br>Vocational qualification programmes.....   | 151     |

**3. Supplementary data**

| Specification              | 2015                                  |                                   |
|----------------------------|---------------------------------------|-----------------------------------|
|                            | Percentage of girls and women reached | Percentage of reported programmes |
| Financial cooperation..... | 50.7                                  | 28.0                              |
| Policy area level.....     | 29.9                                  | 8.7                               |
| Institutional level.....   | 14.1                                  | 12.0                              |
| Individual level.....      | 3.6                                   | 44.6                              |
| Other.....                 | 1.7                                   | 6.7                               |

Sources: Federal Ministry for Economic Cooperation and Development  
Centrum für Evaluation GmbH  
Deutsche Gesellschaft für internationale Zusammenarbeit GmbH

6 Clean water and sanitation

Water quality – Reducing the pollution of water with substances

6.1.a Phosphorus in flowing waters

1. Definition

The indicator specifies the share of monitoring points at which the water-body typical benchmark values of good ecological status regarding phosphorus in flowing waters are not exceeded.

2. Data on the time series of the indicator

| Specification                     | 1990  | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Phosphorus in flowing waters..... | Percentage share of monitoring points at which the benchmark value <sup>1</sup> for a good ecological status for total phosphorus in flowing waters is not exceeded |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                   | 18.0  | 28.5 | 30.5 | 34.0 | 31.2 | 32.9 | 33.3 | 31.9 | 37.9 | 35.4 | 35.9 | 35.1 | 30.2 | 36.9 |

3. Supplementary data

| Specification  | 1990                                  | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  | Percentage share of monitoring points |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Monitoring points below the benchmark value.....                               | 18.0                                  | 28.5 | 30.5 | 34.0 | 31.2 | 32.9 | 33.3 | 31.9 | 37.9 | 35.4 | 35.9 | 35.1 | 30.2 | 36.9 |
| Monitoring points with average concentrations 2.....                           | 17.2                                  | 46.2 | 51.0 | 49.8 | 55.1 | 56.1 | 50.2 | 59.4 | 49.8 | 54.3 | 58.5 | 55.6 | 61.6 | 56.6 |
| Monitoring points in the range of up to four times<br>the benchmark value..... | 35.9                                  | 24.0 | 16.5 | 13.7 | 11.3 | 9.3  | 14.1 | 6.8  | 9.9  | 8.2  | 3.6  | 6.9  | 6.1  | 4.0  |
| Monitoring points with higher concentrations.....                              | 28.9                                  | 1.4  | 2.0  | 2.5  | 2.4  | 1.7  | 2.4  | 2.0  | 2.4  | 2.1  | 2.0  | 2.4  | 2.0  | 2.4  |

Note: In comparison to the previous issue of this publication the time series have been recalculated.

1 The benchmark value should match the good ecological status of the type of water body which is published in Annex 7 of the Ordinance on the Protection of Surface Waters.

The vast majority of flowing water have a benchmark value of 0.1 mg/l of phosphorus. In organic substrate-dominated rivers, the benchmark value is 0.15 mg/l, for marshland streams 0.3 mg/l and for transitional waters influenced by tidal movement 0.045 mg/l.

2 Up to twice the benchmark value.

Source: German Environment Agency based on information from the German Working Group on water issues of the Länder and the Federal Government represented by the Federal Environment Ministry

4. Further information

Umweltbundesamt (only available in German)

[www.umweltbundesamt.de/fluesse/nutzung-belastungen](http://www.umweltbundesamt.de/fluesse/nutzung-belastungen)

German Environment Agency

[www.umweltbundesamt.de/water/rivers](http://www.umweltbundesamt.de/water/rivers)

## 6 Clean water and sanitation

Water quality – Reducing the pollution of water with substances

### 6.1.b Nitrate in groundwater

#### 1. Definition

The indicator shows the share of monitoring points at which the threshold value of 50 mg/l nitrate in the groundwater is not exceeded on an annual average.

#### 2. Data on the time series of the indicator

| Specification                    | 2008  | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------------|---|------|------|------|------|------|------|------|
|                                  | Percentage share of monitoring points as which the threshold <sup>1</sup> is not exceeded |      |      |      |      |      |      |      |
| Class of nitrate ≤ 50 mg/l ..... | 81.8  | 82.5 | 81.7 | 82.0 | 81.0 | 81.4 | 81.8 | 81.0 |

#### 3. Supplementary data

| Specification                               | 2008   | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|--|------|------|------|------|------|------|------|
|   | Proportion of monitoring points by class of nitrate, percent |      |      |      |      |      |      |      |
| Class of nitrate > 25 mg/l.....             | 36.7   | 36.2 | 36.1 | 35.5 | 35.3 | 35.9 | 36.1 | 38.0 |
| Class of nitrate > 50 mg/l (threshold)..... | 18.2   | 17.5 | 18.3 | 18.0 | 19.0 | 18.6 | 18.2 | 19.0 |

<sup>1</sup> A threshold value of 50 mg/l applies to nitrate in groundwater according to the Groundwater Ordinance. This threshold value also applies to drinking water.

Source: German Environment Agency and Länder Initiative for a Set of Core Indicators based on data from the German Working Group on Water Issues of the Länder and the Federal Government represented by the Federal Environment Ministry

#### 4. Further information

Umweltbundesamt (only available in German)

[www.umweltbundesamt.de/grundwasserbeschaffenheit](http://www.umweltbundesamt.de/grundwasserbeschaffenheit)

[www.umweltbundesamt.de/qualitaet-des-trinkwassers-aus-zentralen](http://www.umweltbundesamt.de/qualitaet-des-trinkwassers-aus-zentralen)

German Environment Agency

[www.umweltbundesamt.de/water/drinking-water](http://www.umweltbundesamt.de/water/drinking-water)

## 6 Clean water and sanitation

Drinking water and sanitation – *Better access to drinking water and sanitation worldwide, higher (safer) quality*

### 6.2 Development cooperation for drinking water and sanitation

#### 1. Definition

The indicator shows the number of people in the respective reference year who received new or improved access to drinking water and sanitation as a result of German support.

#### 2. Data on the time series of the indicator

| Specification  | 2012                      | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|---------------------------|------|------|------|------|------|
|  | Persons reached, millions |      |      |      |      |      |
| Access to drinking water and sanitation subsidised by Germany..... | 10.6                      | 11.6 | 31.0 | 10.8 | 14.3 | 28.6 |

#### 3. Supplementary data

| Specification   | 2012             | 2013  | 2014  | 2015  | 2016  | 2017    |
|---|------------------|-------|-------|-------|-------|---------|
|   | Millions of Euro |       |       |       |       |         |
| Financial volume.....   | 819.9            | 604.6 | 409.3 | 526.5 | 441.9 | 1,159.0 |
|   | Percentage share |       |       |       |       |         |
| KfW's share of total German development cooperation in the drinking water ..... | 96.0             | 94.5  | 87.0  | 82.5  | 78.0  | ...     |

Source: Kreditanstalt für Wiederaufbau (KfW)

#### 4. Further information

Kreditanstalt für Wiederaufbau (only available in German)

[www.kfw.de](http://www.kfw.de)

## 7 Affordable and clean energy

Resource conservation – Using resources economically and efficiently

### 7.1.a Final energy productivity 7.1.b Primary energy consumption

#### 1. Definition

The indicator "Final energy productivity" shows the trend of value added per unit of final energy used. The concept "final energy" refers to the part of the energy that is used energetically in terms of thermal or electric energy in the production sectors for the manufacturing of goods or by households.

The indicator "primary energy consumption" specifies how much energy was consumed by a country in the energy sectors for conversion purposes on the one hand, and by production activities, transport and households on the other.

#### 2. Data on the time series of the indicator

| Specification                   | 2008       | 2009 | 2010 | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 <sup>1</sup> |
|---------------------------------|------------|------|------|-------|-------|-------|-------|-------|-------|-------------------|
|                                 | 2008 = 100 |      |      |       |       |       |       |       |       |                   |
| Final energy productivity.....  | 100        | 99.8 | 96.6 | 105.0 | 105.1 | 102.6 | 110.6 | 110.0 | 110.5 | 109.6             |
| Primary energy consumption..... | 100        | 94.1 | 98.9 | 94.6  | 93.5  | 96.1  | 91.7  | 92.2  | 93.8  | 94.5              |

#### 3. Supplementary data

| Specification                                       | 2008       | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017 <sup>1</sup> |
|---|------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
|   | Petajoules |        |        |        |        |        |        |        |        |                   |
| Final energy consumption 2.....                     | 9,159      | 8,665  | 9,310  | 8,881  | 8,919  | 9,179  | 8,699  | 8,898  | 9,060  | 9,329             |
| Households.....                                     | 2,558      | 2,478  | 2,676  | 2,333  | 2,427  | 2,556  | 2,188  | 2,302  | 2,376  | 2,430             |
| Business, trade, services.....                      | 1,443      | 1,355  | 1,483  | 1,346  | 1,345  | 1,460  | 1,350  | 1,428  | 1,396  | 1,443             |
| Industries.....                                     | 2,587      | 2,291  | 2,592  | 2,634  | 2,587  | 2,551  | 2,545  | 2,548  | 2,598  | 2,700             |
| Transport.....                                      | 2,571      | 2,541  | 2,559  | 2,568  | 2,559  | 2,612  | 2,616  | 2,621  | 2,690  | 2,755             |
| Domestic primary energy consumption.....            | 14,380     | 13,531 | 14,217 | 13,599 | 13,447 | 13,822 | 13,180 | 13,262 | 13,491 | 13,594            |
| Primary energy consumption (residents concept)..... | 14,772     | 13,872 | 14,732 | 14,052 | 13,861 | 14,134 | 13,562 | 13,707 | 13,814 | ...               |
| Branch of production.....                           | 10,912     | 10,056 | 10,716 | 10,352 | 10,085 | 10,219 | 10,027 | 10,064 | 10,077 | ...               |
| Households (residents concept).....                 | 3,860      | 3,816  | 4,016  | 3,700  | 3,775  | 3,915  | 3,535  | 3,643  | 3,737  | ...               |

<sup>1</sup> Provisional data.

<sup>2</sup> Evaluation table (version: August 2018) on energy from Energy Balance Association (AGEB).

| Specification  | 1990 | 1991  | 1992  | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002  | 2003  |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| memorandum item:<br>Primary energy productivity..... | 100  | 104.5 | 108.6 | 107.7 | 111.3 | 112.5 | 109.8 | 112.8 | 115.8 | 119.7 | 122.6 | 122.3 | 124.5 | 122.1 |

| Specification  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 <sup>1</sup> |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
| memorandum item:<br>Primary energy productivity..... | 123.6 | 124.8 | 127.0 | 137.0 | 136.7 | 137.2 | 135.9 | 147.2 | 149.6 | 146.3 | 156.8 | 158.5 | 159.3 | 161.5             |

1 Provisional data.

Source: Federal Statistical Office: Environmental-Economic Accounting

#### 4. Further information

Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 2 "Energie" (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft



## 7 Affordable and clean energy

### Renewable energies – Strengthening a sustainable energy supply

#### 7.2.a Share of renewable energies in gross final energy consumption

#### 7.2.b Share of electricity from renewable energy sources in electricity consumption

##### 1. Definition

7.2.a The indicator expresses the generation of renewable energies relative to gross final energy consumption. Gross final energy consumption covers energy consumption by the end consumer and transmission losses as well as the self-consumption of the energy generation sector.

7.2.b The indicator reflects the share of electricity from renewable energy sources in gross electricity consumption.

##### 2. Data on the time series of the indicator

| Specification   | 1990             | 1995 | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 <sup>1</sup> |
|---|------------------|------|------|------|------|------|------|------|------|------|------|-------------------|
|   | Percentage share |      |      |      |      |      |      |      |      |      |      |                   |
| Generation of renewable energies relative to gross final energy consumption.....          | 2.0              | 2.2  | 3.7  | 7.2  | 11.4 | 12.5 | 13.8 | 13.9 | 14.3 | 15.0 | 14.8 | 15.6              |
| Electricity generated from renewable energy sources in gross electricity consumption..... | 3.4              | 4.7  | 6.3  | 10.2 | 17.0 | 20.3 | 23.5 | 25.1 | 27.4 | 31.5 | 31.6 | 36.0              |

##### 3. Supplementary data

| Specification  | 1990           | 1995   | 2000   | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017 <sup>1</sup> |
|--|----------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|  | Gigawatt-hours |        |        |         |         |         |         |         |         |         |         |                   |
| Energy supply from renewable energies.....                 | 51,915         | 59,612 | 98,407 | 189,740 | 302,310 | 316,084 | 352,636 | 363,873 | 359,529 | 385,833 | 387,799 | 419,669           |
| Electricity generation from renewable energies.....        | 18,934         | 25,327 | 36,226 | 63,400  | 105,182 | 124,037 | 143,057 | 152,353 | 162,539 | 188,801 | 189,669 | 216,375           |
| Hydropower 2.....  | 17,426         | 21,780 | 21,732 | 19,638  | 20,953  | 17,671  | 21,755  | 22,998  | 19,587  | 18,977  | 20,546  | 20,150            |
| Windpower.....   | 72             | 1,530  | 9,703  | 27,774  | 38,371  | 49,280  | 50,948  | 51,819  | 57,026  | 72,340  | 67,650  | 88,018            |
| Windpower at sea.....                                      | –              | –      | –      | –       | 176     | 577     | 732     | 918     | 1,471   | 8,284   | 12,274  | 17,675            |
| Biomass 3.....   | 1,435          | 2,010  | 4,731  | 14,706  | 33,925  | 36,891  | 43,217  | 45,528  | 48,301  | 50,341  | 50,926  | 50,943            |
| Photovoltaic.....  | 1              | 7      | 60     | 1,282   | 11,729  | 19,599  | 26,380  | 31,010  | 36,056  | 38,726  | 38,098  | 39,426            |
| Geothermal energy.....                                     | –              | –      | –      | 0       | 28      | 19      | 25      | 80      | 98      | 133     | 175     | 163               |
| Heat consumption from renewable energies.....              | 32,516         | 33,110 | 58,429 | 103,124 | 161,171 | 156,583 | 172,407 | 177,130 | 161,482 | 163,625 | 164,471 | 168,803           |
| Solid biomass 4.....                                       | 30,573         | 30,695 | 53,604 | 93,405  | 135,253 | 127,728 | 140,584 | 142,044 | 123,455 | 122,859 | 122,438 | 125,248           |
| Liquid biomass 5.....                                      | –              | –      | 8      | 713     | 3,178   | 2,437   | 2,019   | 2,081   | 2,217   | 2,111   | 2,106   | 2,140             |
| Gaseous biomass 6.....                                     | –              | –      | 1,355  | 3,163   | 10,521  | 12,489  | 14,594  | 16,708  | 17,909  | 19,470  | 19,669  | 19,949            |
| Solarthermal.....  | 131            | 438    | 1,292  | 3,028   | 5,592   | 6,389   | 6,640   | 6,701   | 7,206   | 7,706   | 7,693   | 7,853             |
| Geothermal, environmental heat 7.....                      | 1,812          | 1,977  | 2,170  | 2,815   | 6,627   | 7,540   | 8,570   | 9,596   | 10,695  | 11,479  | 12,565  | 13,613            |
| Consumption of renewable energies in transport sector..... | 465            | 1,175  | 3,752  | 23,216  | 35,957  | 35,464  | 37,172  | 34,390  | 35,508  | 33,407  | 33,659  | 34,491            |
| Biodiesel 8.....   | –              | 362    | 2,583  | 18,046  | 24,474  | 23,606  | 24,530  | 21,998  | 22,760  | 20,840  | 20,866  | 21,258            |
| Vegetable oil.....   | –              | 52     | 167    | 2,047   | 637     | 209     | 261     | 10      | 63      | 21      | 42      | 10                |
| Bioethanol.....  | –              | –      | –      | 1,780   | 8,711   | 9,090   | 9,208   | 8,891   | 9,061   | 8,648   | 8,663   | 8,530             |
| Biomethane.....  | –              | –      | –      | –       | 75      | 92      | 333     | 483     | 449     | 345     | 379     | 445               |
| Renewable energies electricity consumption.....            | 465            | 761    | 1,002  | 1,343   | 2,060   | 2,467   | 2,840   | 3,008   | 3,175   | 3,553   | 3,709   | 4,248             |

| Specification  | 1990  | 1995 | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 <sup>1</sup> |
|--|---|------|------|------|------|------|------|------|------|------|------|-------------------|
|  | Percentage share of total energy consumption from renewable energies                              |      |      |      |      |      |      |      |      |      |      |                   |
| Electricity generation from renewable energies.....  | 36.5  | 42.5 | 36.8 | 33.4 | 34.8 | 39.2 | 40.6 | 41.9 | 45.2 | 48.9 | 48.9 | 51.6              |
| Heat consumption from renewable energies.....  | 62.6  | 55.5 | 59.4 | 54.4 | 53.3 | 49.5 | 48.9 | 48.7 | 44.9 | 42.4 | 42.4 | 40.2              |
| Consumption of renewable energies in transport sector.....   | 0.9   | 2.0  | 3.8  | 12.2 | 11.9 | 11.2 | 10.5 | 9.5  | 9.9  | 8.7  | 8.7  | 8.2               |
|  | Percentage share of individual energy sources in total energy consumption from renewable energies |      |      |      |      |      |      |      |      |      |      |                   |
| Biomass.....   | 61.7  | 55.6 | 63.5 | 70.5 | 71.7 | 67.2 | 66.6 | 65.3 | 62.4 | 58.2 | 58.0 | 54.5              |
| Windpower.....   | 0.1   | 2.6  | 9.9  | 14.6 | 12.8 | 15.8 | 14.7 | 14.5 | 16.3 | 20.9 | 20.6 | 25.2              |
| Hydropower.....  | 33.6  | 36.5 | 22.1 | 10.3 | 6.9  | 5.6  | 6.2  | 6.3  | 5.4  | 4.9  | 5.3  | 4.8               |
| Geothermal.....  | 3.5   | 3.3  | 2.2  | 1.5  | 2.2  | 2.4  | 2.4  | 2.7  | 3.0  | 3.0  | 3.3  | 3.3               |
| Photovoltaic/Solarthermal.....   | 0.3   | 0.7  | 1.4  | 2.3  | 5.7  | 8.2  | 9.4  | 10.4 | 12.0 | 12.0 | 11.8 | 11.3              |
| Renewable energies electricity consumption.....  | 0.9   | 1.3  | 1.0  | 0.7  | 0.7  | 0.8  | 0.8  | 0.8  | 0.9  | 0.9  | 1.0  | 1.0               |
|  | Percent   |      |      |      |      |      |      |      |      |      |      |                   |
| memorandum item:<br>Proportion of renewable energy generation in primary energy consumption 9..... | 1.3   | 1.9  | 2.9  | 5.3  | 9.9  | 10.8 | 10.3 | 10.8 | 11.5 | 12.4 | 12.4 | 13.1              |

1 Provisional data, from August 2018.

2 In the case of pumped-storage power plants, only electricity generated from natural inflow.

3 Solid and liquid biomass, biogas, landfill and sewage gas, biogenic wastes (estimated share in waste incineration plants 50%).

4 Including biogenic share of waste; reduction in 2008 compared to previous year due to methodological changes; since 2010 including sewage sludge; data on sectors business, trade and services available since 2013.

5 Including consumption of biodiesel in agriculture.

6 Biogas including biomethane, sewage and landfill gas.

7 Including heat from deep geothermics and renewable heat utilised by heat pumps.

8 Consumption of biodiesel in the transport sector.

9 Primary energy consumption based on efficiency method.

Sources: Bundesministerium für Wirtschaft und Energie (Hrsg.) [Federal Ministry for Economic Affairs and Energy (editor)]: Erneuerbare Energien in Zahlen - Nationale und internationale Entwicklung im Jahr 2017, Stand: August 2018  
Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (Centre for Solar Energy and Hydrogen Research Baden-Württemberg),  
Arbeitsgruppe Erneuerbare Energien-Statistik (Working group on Renewable Energies-Statistics)

#### 4. Further information

Federal Ministry for Economic Affairs and Energy

[www.bmwi.de/renewable-energy](http://www.bmwi.de/renewable-energy)

Themenseite des Bundesministeriums für Wirtschaft und Energie (only available in German)

[www.bmwi.de/DE/Themen/energie.html](http://www.bmwi.de/DE/Themen/energie.html)

## 8 Decent work and economic growth

Resource conservation – *Using resources economically and efficiently*

### 8.1 Raw material input productivity

#### 1. Definition

The indicator of raw material input productivity compares the value of all goods provided for final use (in euros, price-adjusted) relative to the mass of the raw materials used domestically and abroad for their production (in tonnes).

Final use covers domestic consumption and domestic investment as well as exports.

The denominator of the indicator takes into account abiotic and biotic raw materials from the environment as well as plant materials produced by farming and forestry.

#### 2. Data on the time series of the indicator

| Specification  | 2000       | 2001 <sup>1</sup> | 2002 <sup>1</sup> | 2003 <sup>1</sup> | 2004 <sup>1</sup> | 2005 <sup>1</sup> | 2006 <sup>1</sup> | 2007 <sup>1</sup> | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 <sup>2</sup> |
|--|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|------|------|------|------|------|-------------------|
|  | 2000 = 100 |                   |                   |                   |                   |                   |                   |                   |      |      |      |      |      |      |                   |
| Raw material input productivity 3.....   | 100        | 104               | 110               | 108               | 108               | 109               | 108               | 111               | 115  | 122  | 117  | 115  | 121  | 122  | 126               |
| Raw material input for final consumption, gross capital formation and exports..... | 100        | 97                | 92                | 95                | 97                | 99                | 105               | 106               | 104  | 93   | 103  | 109  | 104  | 104  | 104               |
| Final consumption, gross capital formation and exports .....                       | 100        | 101               | 101               | 102               | 105               | 107               | 114               | 118               | 120  | 113  | 120  | 126  | 126  | 127  | 131               |

1 Raw material input interpolated from 2001 to 2007.

2 Provisional data.

3 The Raw Material Input Productivity is defined as the (price adjusted) value of goods and services for final consumption, gross fixed capital formation and exports in relation to the mass of raw material used for final consumption, gross fixed capital formation and exports.

#### 3. Supplementary data

| Specification                                  | 2000       | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|--|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  | 2000 = 100 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Final consumption (price-adjusted) .....       | 100        | 101  | 101  | 101  | 102  | 102  | 103  | 104  | 105  | 106  | 107  | 108  | 109  | 110  | 112  |
| Gross capital formation (price-adjusted) ..... | 100        | 97   | 88   | 89   | 86   | 85   | 93   | 99   | 100  | 83   | 93   | 102  | 94   | 95   | 97   |
| Exports (price-adjusted) .....                 | 100        | 106  | 110  | 112  | 125  | 133  | 150  | 164  | 167  | 143  | 164  | 178  | 183  | 186  | 194  |

Source: Fachserie 18, Reihe 1.4 Inlandsproduktberechnung - Detaillierte Jahresergebnisse, Tabelle 2.3.2, Rechenstand: August 2017

| Specification  | 2010           | 2011  | 2012  | 2013  | 2014 <sup>1</sup> |
|--|----------------|-------|-------|-------|-------------------|
|  | million tonnes |       |       |       |                   |
| Raw material input of final consumption, gross capital formation and exports ..... | 2,622          | 2,792 | 2,653 | 2,665 | 2,643             |
| Abiotic total .....  | 2,235          | 2,368 | 2,217 | 2,248 | 2,157             |
| Ores total 2 .....   | 804            | 846   | 764   | 792   | 723               |
| of which:  |                |       |       |       |                   |
| Iron ore and manganese .....   | 208            | 238   | 221   | 218   | 227               |
| Non-iron ores .....  | 596            | 608   | 542   | 574   | 496               |
| including:   |                |       |       |       |                   |
| Copper ores .....  | 218            | 258   | 273   | 260   | 269               |
| Aluminium (bauxite) ores .....   | 36             | 37    | 34    | 34    | 36                |
| Fossil fuels total 3 .....   | 719            | 735   | 719   | 722   | 699               |
| of which:  |                |       |       |       |                   |
| Brown coal (lignite) 4 .....   | 193            | 206   | 210   | 205   | 198               |
| Hard coal .....  | 128            | 138   | 130   | 120   | 113               |
| Crude (mineral) oil, natural gas condensate, liquefied natural gas ..              | 230            | 229   | 221   | 225   | 225               |
| Natural gases .....  | 168            | 163   | 159   | 173   | 163               |
| Other mineral raw materials a .....  | 712            | 787   | 734   | 733   | 735               |
| of which:  |                |       |       |       |                   |
| Fertiliser minerals 6 .....  | 17             | 18    | 18    | 18    | 19                |
| Chemical minerals 7 .....  | 22             | 25    | 23    | 23    | 23                |
| Salt (sodium chloride) .....   | 42             | 42    | 36    | 41    | 28                |
| Quartz 8 .....   | 21             | 23    | 22    | 21    | 23                |
| Limestone 9, gypsum 10 .....   | 116            | 126   | 120   | 119   | 121               |
| Sand 11, gravel, crushed natural stone .....                                       | 463            | 520   | 482   | 479   | 489               |
| Natural cut stone .....  | 1              | 1     | 2     | 2     | 2                 |
| Clay 12 .....  | 30             | 32    | 30    | 30    | 30                |
| Biomass .....  | 387            | 423   | 437   | 417   | 486               |
| of which:  |                |       |       |       |                   |
| Biomass from agriculture .....   | 349            | 391   | 403   | 384   | 437               |
| Biomass from forestry .....  | 36             | 32    | 32    | 32    | 48                |
| Biomass from fishing 13 and hunting .....  | 1              | 1     | 1     | 1     | 1                 |

#### Footnotes of the table:

- 1 Provisional data.
- 2 Ores including gangue, but not backup sands.
- 3 Also for non-energetic use.
- 4 Including peat.
- 5 Without excavation.
- 6 Phosphate, potassium salts and kieserit.
- 7 Including sulphur and other mineral raw materials, not elsewhere mentioned.
- 8 Without heavy sands for metal production (see ores).
- 9 Including dolomite.
- 10 Including anhydrit and chalk.
- 11 Without quartz and other special sands.
- 12 Including bentonite and kaoline.
- 13 Wild caught fish and other marine organisms (including mussels from aquaculture).

Source: Federal Statistical Office: Environmental-Economic Accounting

#### 4. Further information

Maier, L.: Rohstoffe weltweit im Einsatz für Deutschland, in: Statistisches Bundesamt, Wirtschaft und Statistik, 2/2018, S. 23 ff. (only available in German)

[www.destatis.de/WISTA-Wirtschaft-und-Statistik/2018/02/rohstoffe-weltweit](http://www.destatis.de/WISTA-Wirtschaft-und-Statistik/2018/02/rohstoffe-weltweit)

Daten zu Aufkommen und Verwendung in Rohstoffäquivalenten (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

Kaumanns, S. und Lauber, U.: Rohstoffe für Deutschland. Bedarfsanalyse für Konsum. Investitionen und Export auf Makro- und Mesoebene, Umweltbundesamt Texte 62/2016 (only available in German)

[www.umweltbundesamt.de/rohstoffe\\_fur\\_deutschland.pdf](http://www.umweltbundesamt.de/rohstoffe_fur_deutschland.pdf)

## 8 Decent work and economic growth

Government debt – Consolidating public finances – Creating intergenerational equity

### 8.2.a Government deficit

### 8.2.b Structural deficit

#### 1. Definition

The indicators show the financial balance of general government (deficit or surplus) and the structural financial balance in relation to gross domestic product at current prices.

The financial balance of general government is calculated from government revenue minus government expenditure in line with the national accounts.

The annual structural balance refers to the part of the financial balance that cannot be attributed to cyclical fluctuations and temporary effects.

#### 2. Data on the time series of the indicator

| Specification                                | 1991   | 1995 | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|--|--|------|------|------|------|------|------|------|-------------------|-------------------|-------------------|-------------------|
|  | Percentage share of gross domestic product (at current prices) |      |      |      |      |      |      |      |                   |                   |                   |                   |
| Government deficit 2.....                    | 3.2  | 2.9  | -1.5 | 3.4  | 4.2  | 1.0  | 0.0  | 0.1  | -0.6              | -0.8              | -0.9              | -1.0              |
| Structural deficit.....                      | .  | .    | .    | 2.0  | 1.9  | 1.1  | -0.2 | -0.6 | -1.3              | -1.2              | -1.3              | -1.5              |
|  | Year-on-year percentage changes                                |      |      |      |      |      |      |      |                   |                   |                   |                   |
| Gross domestic product (price-adjusted)..... | .  | 1.7  | 3.0  | 0.7  | 4.1  | 3.7  | 0.5  | 0.5  | 2.2               | 1.7               | 2.2               | 2.2               |

#### 3. Supplementary data<sup>3</sup>

| Specification                          | 1991             | 1995    | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|--|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|  | Billion of euros |         |         |         |         |         |         |         |         |         |         |         |
| Financial balance, adjusted 4.....     | -50.0            | -55.8   | 32.6    | -78.6   | -108.9  | -25.9   | -0.9    | -4.0    | 16.7    | 23.9    | 28.7    | 34.0    |
| Central government (federation).....   | -48.7            | -141.6  | 28.1    | -48.0   | -84.1   | -29.4   | -16.1   | -7.4    | 13.7    | 14.7    | 11.5    | 6.1     |
| State government (Länder).....         | -10.1            | -24.2   | -8.8    | -23.0   | -20.6   | -11.4   | -5.5    | -2.5    | 0.1     | 2.2     | 4.2     | 8.3     |
| Local government (municipalities)..... | -2.1             | -5.4    | 0.2     | -2.5    | -8.1    | -0.3    | 2.2     | 0.5     | -0.2    | 4.3     | 4.8     | 9.5     |
| Social security funds.....             | 10.9             | -7.8    | -1.3    | -5.1    | 3.8     | 15.3    | 18.4    | 5.4     | 3.1     | 2.7     | 8.2     | 10.1    |
| Gross domestic product 5.....          | 1,579.8          | 1,898.9 | 2,116.5 | 2,300.9 | 2,580.1 | 2,703.1 | 2,758.3 | 2,826.2 | 2,938.6 | 3,048.9 | 3,159.8 | 3,277.3 |
| Revenue.....                           | 682.3            | 858.9   | 965.3   | 984.4   | 1,110.3 | 1,182.7 | 1,220.9 | 1,259.0 | 1,308.5 | 1,356.5 | 1,415.5 | 1,473.8 |
| including:                             |                  |         |         |         |         |         |         |         |         |         |         |         |
| Contributions.....                     | 605.6            | 761.8   | 872.4   | 878.7   | 978.0   | 1,036.8 | 1,074.9 | 1,111.4 | 1,150.1 | 1,198.7 | 1,255.6 | 1,315.0 |
| Taxes.....                             | 347.4            | 418.3   | 490.1   | 479.0   | 551.8   | 594.5   | 620.5   | 646.3   | 668.1   | 697.9   | 731.7   | 766.4   |
| Social contributions.....              | 258.3            | 343.5   | 382.3   | 399.7   | 426.2   | 442.3   | 454.3   | 465.0   | 482.0   | 500.8   | 523.9   | 548.6   |

1 Provisional data.

2 The government deficit is expressed mathematically in the form of a positive value, since there cannot be a "negative deficit". A positive value (with a "-" sign) therefore indicates a surplus.

3 In terms of the unadjusted fiscal balance. According to the ESA 1995 definition.

4 1995: excluding the assumption of the debt of the "Treuhand" etc., 2000: excluding revenues from UMTS-auctions; unadjusted deficit: 1995: - 179.0 Euro bn; 2000: 18.2 Euro bn.

5 At current prices.

| Specification   | 1991                                       | 1995    | 2000  | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|--|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | Billion of euros                           |         |       |         |         |         |         |         |         |         |         |         |
| Expenditure including:                                  | 732.3                                      | 1,037.9 | 947.1 | 1,063.0 | 1,219.2 | 1,208.6 | 1,221.8 | 1,263.0 | 1,291.8 | 1,332.6 | 1,386.8 | 1,439.8 |
| Intermediate consumption.....                           | 63.6                                       | 70.8    | 76.5  | 88.7    | 118.0   | 124.1   | 126.5   | 133.0   | 137.7   | 143.8   | 150.1   | 156.3   |
| Compensation of employees.....                          | 135.9                                      | 164.6   | 174.0 | 182.2   | 203.5   | 208.6   | 212.3   | 217.8   | 224.4   | 229.8   | 237.8   | 246.7   |
| Social benefits other than social transfer in kind..... | 235.5                                      | 326.2   | 368.9 | 412.3   | 430.1   | 424.1   | 430.3   | 438.7   | 451.4   | 469.4   | 486.8   | 506.1   |
| Social benefits in kind.....                            | 100.6                                      | 137.9   | 154.8 | 169.5   | 204.4   | 209.8   | 215.3   | 227.7   | 239.7   | 252.4   | 268.4   | 278.4   |
| Gross capital formation.....                            | 49.6                                       | 49.4    | 48.5  | 44.0    | 59.4    | 61.4    | 61.5    | 60.1    | 60.1    | 64.1    | 68.2    | 72.4    |
| Financial balance.....                                  | -50.0                                      | -179.0  | 18.2  | -78.6   | -108.9  | -25.9   | -0.9    | -4.0    | 16.7    | 23.9    | 28.7    | 34.0    |
|   | 1991 = 100                                 |         |       |         |         |         |         |         |         |         |         |         |
| Gross domestic product.....                             | 100  | 120.2   | 134.0 | 145.6   | 163.3   | 171.1   | 174.6   | 178.9   | 186.0   | 193.0   | 200.0   | 207.5   |
| Social benefits in kind.....                            | 100  | 137.0   | 153.9 | 168.4   | 203.1   | 208.5   | 213.9   | 226.3   | 238.3   | 250.8   | 266.8   | 276.7   |
| Social benefits other than social transfer in kind..... | 100  | 138.5   | 156.7 | 175.1   | 182.7   | 180.1   | 182.7   | 186.3   | 191.7   | 199.3   | 206.7   | 214.9   |
|   | Percentage share of gross domestic product |         |       |         |         |         |         |         |         |         |         |         |
| Revenue..... including:                                 | 43.2                                       | 45.2    | 45.6  | 42.8    | 43.0    | 43.8    | 44.3    | 44.5    | 44.5    | 44.5    | 44.8    | 45.0    |
| Contributions.....                                      | 38.3                                       | 40.1    | 41.2  | 38.2    | 37.9    | 38.4    | 39.0    | 39.3    | 39.1    | 39.3    | 39.7    | 40.1    |
| Taxes.....  | 22.0                                       | 22.0    | 23.2  | 20.8    | 21.4    | 22.0    | 22.5    | 22.9    | 22.7    | 22.9    | 23.2    | 23.4    |
| Social contributions.....                               | 16.3                                       | 18.1    | 18.1  | 17.4    | 16.5    | 16.4    | 16.5    | 16.5    | 16.4    | 16.4    | 16.6    | 16.7    |
| Expenditure including:                                  | 46.4                                       | 54.7    | 44.7  | 46.2    | 47.3    | 44.7    | 44.3    | 44.7    | 44.0    | 43.7    | 43.9    | 43.9    |
| Intermediate consumption.....                           | 4.0  | 3.7     | 3.6   | 3.9     | 4.6     | 4.6     | 4.6     | 4.7     | 4.7     | 4.7     | 4.8     | 4.8     |
| Compensation of employees.....                          | 8.6  | 8.7     | 8.2   | 7.9     | 7.9     | 7.7     | 7.7     | 7.7     | 7.6     | 7.5     | 7.5     | 7.5     |
| Social benefits other than social transfer in kind..... | 14.9                                       | 17.2    | 17.4  | 17.9    | 16.7    | 15.7    | 15.6    | 15.5    | 15.4    | 15.4    | 15.4    | 15.4    |
| Social benefits in kind.....                            | 6.4  | 7.3     | 7.3   | 7.4     | 7.9     | 7.8     | 7.8     | 8.1     | 8.2     | 8.3     | 8.5     | 8.5     |
| Gross capital formation.....                            | 3.1  | 2.6     | 2.3   | 1.9     | 2.3     | 2.3     | 2.2     | 2.1     | 2.0     | 2.1     | 2.2     | 2.2     |

Sources: Federal Statistical Office: National Accounts, August 2018  
Federal Ministry of Finance, version: July 2018

#### 4. Further information

Statistisches Bundesamt, Volkswirtschaftliche Gesamtrechnungen, Inlandsproduktberechnung, Detaillierte Jahresergebnisse, Fachserie 18 Reihe 1.4 (only available in German)

[www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt](http://www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt)

→ Publikationen: Inlandsprodukt - Jahresergebnisse und Grundlagen

## 8 Decent work and economic growth

Government debt – Consolidating public finances – Creating intergenerational equity

### 8.2.c Government debt

#### 1. Definition

The indicator shows the government debt as defined by the Maastricht Treaty as a share of gross domestic product at current prices. The indicator therefore serves as a measure of government debt.

#### 2. Data on the time series of the indicator

| Specification                                      | 1991   | 2000      | 2005      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
|--|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | Percentage share in gross domestic product at current prices |           |           |           |           |           |           |           |           |           |           |
| Government debt.....                               | 39.1   | 58.9      | 67.0      | 81.0      | 78.6      | 79.9      | 77.4      | 74.5      | 70.8      | 67.9      | 63.9      |
|  | Millions of euros  |           |           |           |           |           |           |           |           |           |           |
| Government debt (Maastricht) 1 .....               | 1,209,128  | 1,245,785 | 1,541,400 | 2,088,716 | 2,125,337 | 2,202,864 | 2,188,128 | 2,189,569 | 2,159,746 | 2,143,904 | 2,092,781 |
| Gross domestic product (at current prices) 2 ..... | 1,579,800  | 2,116,480 | 2,300,860 | 2,580,060 | 2,703,120 | 2,758,260 | 2,826,240 | 2,938,590 | 3,048,860 | 3,159,750 | 3,277,340 |

#### 3. Supplementary data

| Specification                          | 1991               | 2000      | 2005      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      |
|--|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | Millions of euros  |           |           |           |           |           |           |           |           |           |           |
| General government (consolidated)..... | 1,209,128          | 1,245,785 | 1,541,400 | 2,088,716 | 2,125,337 | 2,202,864 | 2,188,128 | 2,189,569 | 2,159,746 | 2,143,904 | 2,092,781 |
| Sum (not consolidated).....            | .                  | 1,265,206 | 1,559,166 | 2,107,962 | 2,142,995 | 2,220,650 | 2,205,488 | 2,207,554 | 2,180,688 | 2,159,368 | 2,111,641 |
| Central government (federation).....   | .                  | 800,494   | 940,759   | 1,334,021 | 1,344,082 | 1,387,857 | 1,390,440 | 1,396,496 | 1,372,604 | 1,366,840 | 1,351,290 |
| State government (Länder).....         | .                  | 354,293   | 488,684   | 629,474   | 654,143   | 684,123   | 663,225   | 657,633   | 654,287   | 637,471   | 611,072   |
| Local government (municipalities)..... | .                  | 108,543   | 127,032   | 143,121   | 143,439   | 147,499   | 150,536   | 151,995   | 152,386   | 153,914   | 148,487   |
| Social security funds.....             | .                  | 1,876     | 2,691     | 1,346     | 1,331     | 1,171     | 1,287     | 1,430     | 1,411     | 1,143     | 792       |
| Net stock of fixed assets.....         | 881,701            | 1,035,213 | 1,052,624 | 1,205,095 | 1,240,136 | 1,276,023 | 1,300,876 | 1,320,617 | 1,338,216 | 1,358,729 | 1,405,858 |
| Buildings and structures.....          | 767,946            | 926,791   | 940,632   | 1,070,021 | 1,097,200 | 1,124,042 | 1,142,352 | 1,157,494 | 1,167,739 | 1,180,649 | 1,217,808 |
| Financial assets.....                  | .                  | 604,500   | 548,500   | 951,400   | 954,800   | 1,067,700 | 1,069,000 | 1,119,400 | 1,127,700 | 1,148,600 | ...       |
| Securities.....                        | .                  | 201,200   | 213,800   | 484,500   | 465,700   | 505,100   | 523,800   | 542,000   | 563,300   | 575,900   | ...       |
|  | Thousands          |           |           |           |           |           |           |           |           |           |           |
| Population 3.....                      | 79,973             | 81,457    | 81,337    | 80,284    | 80,275    | 80,426    | 80,646    | 80,983    | 81,687    | 82,349    | 82,659    |
|  | Thousands of euros |           |           |           |           |           |           |           |           |           |           |
| Debt per capita.....                   | 15,119             | 15,294    | 18,951    | 26,017    | 26,476    | 27,390    | 27,133    | 27,037    | 26,439    | 26,034    | 25,318    |

1 Deutsche Bundesbank (Öffentliche Finanzen; Schuldenstand (Maastricht-Abgrenzung), Stand 28.09.2018) - 2017 provisional data.

2 Statistisches Bundesamt, Fachserie 18 Inlandsproduktsberechnung, Reihe 1.4, Detaillierte Jahresergebnisse, August 2018.

3 Average population based on the census 2011 (result of reporting data on 9th of May 2011: 80,219,695 inhabitants).

#### 4. Further information

Deutsche Bundesbank

[www.bundesbank.de/time-series-databases](http://www.bundesbank.de/time-series-databases)



## 8 Decent work and economic growth

Provision for future economic stability – *Creating favourable investment conditions – Securing long-term prosperity*

### 8.3 Gross fixed capital formation in relation to GDP

#### 1. Definition

The indicator shows the share of gross fixed capital formation relative to nominal gross domestic product (which means at current prices). This share is also referred to as the investment ratio.

#### 2. Data on the time series of the indicator

| Specification                                | 1991   | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|--|--|---------|---------|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|
|  | Percentage share in gross domestic product at current prices |         |         |         |         |         |         |                   |                   |                   |                   |
| Gross fixed capital formation.....           | 24.9   | 23.0    | 19.1    | 19.4    | 20.3    | 20.1    | 19.7    | 20.0              | 19.9              | 20.1              | 20.3              |
|  | Billions of euros  |         |         |         |         |         |         |                   |                   |                   |                   |
| Gross fixed capital formation (nominal)..... | 392.7  | 486.5   | 438.8   | 501.4   | 547.8   | 554.7   | 556.8   | 587.5             | 605.5             | 634.0             | 665.7             |
| Gross domestic product (nominal).....        | 1,579.8  | 2,116.5 | 2,300.9 | 2,580.1 | 2,703.1 | 2,758.3 | 2,826.2 | 2,938.6           | 3,048.9           | 3,159.8           | 3,277.3           |

#### 3. Supplementary data

| Specification   | 1991   | 2000  | 2005  | 2010  | 2011  | 2012  | 2013  | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|---|--|-------|-------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|
|   | Gross fixed capital formation by product at current prices, billions of euros  |       |       |       |       |       |       |                   |                   |                   |                   |
| Gross fixed capital formation .....                         | 392.7  | 486.5 | 438.8 | 501.4 | 547.8 | 554.7 | 556.8 | 587.5             | 605.5             | 634.0             | 665.7             |
| Machinery and equipment .....                               | 155.2  | 178.6 | 165.2 | 175.9 | 188.3 | 183.8 | 180.0 | 191.7             | 201.2             | 206.5             | 215.2             |
| Machinery .....   | 119.4  | 135.1 | 116.4 | 119.0 | 131.7 | 132.5 | 129.3 | 135.8             | 144.6             | 149.4             | 152.1             |
| Transport equipment .....                                   | 35.7   | 43.5  | 48.8  | 56.9  | 56.6  | 51.3  | 50.8  | 55.9              | 56.6              | 57.1              | 63.2              |
| Construction .....  | 192.1  | 240.9 | 199.7 | 237.1 | 264.2 | 273.0 | 277.2 | 289.7             | 290.7             | 307.1             | 326.6             |
| Dwellings .....   | 95.7   | 140.5 | 114.7 | 133.3 | 150.7 | 160.2 | 163.6 | 172.4             | 174.2             | 186.9             | 198.3             |
| Other buildings and structures .....                        | 96.3   | 100.4 | 85.0  | 103.9 | 113.5 | 112.8 | 113.5 | 117.3             | 116.5             | 120.2             | 128.3             |
| Building construction .....                                 | 61.7   | 64.3  | 53.1  | 68.4  | 75.5  | 75.3  | 75.8  | 77.6              | 77.4              | 79.2              | 83.2              |
| Underground construction .....                              | 34.6   | 36.1  | 32.0  | 35.4  | 38.0  | 37.5  | 37.7  | 39.7              | 39.1              | 41.0              | 45.1              |
| Other products 2 .....                                      | 45.5   | 67.1  | 73.9  | 88.4  | 95.3  | 97.9  | 99.5  | 106.2             | 113.6             | 120.4             | 123.9             |
| Research and development .....                              | 33.2   | 45.0  | 50.4  | 61.9  | 65.7  | 70.3  | 69.9  | 75.2              | 80.0              | 86.5              | 89.1              |
| Computer software and databases .....                       | 9.7  | 17.2  | 18.6  | 21.2  | 24.4  | 22.3  | 24.0  | 24.8              | 27.5              | 27.7              | 28.3              |
|   | Gross fixed capital formation by sector of economic activity (new fixed assets at current prices), billions of euros |       |       |       |       |       |       |                   |                   |                   |                   |
| Agriculture and forestry, fishing .....                     | 6.6  | 6.5   | 7.3   | 8.1   | 8.9   | 9.3   | 9.7   | 10.1              | 9.8               | 9.5               | 9.9               |
| Industry .....  | 123.4  | 120.0 | 109.2 | 121.5 | 133.4 | 138.9 | 136.7 | 145.4             | 150.3             | 157.5             | 162.6             |
| Services .....  | 269.6  | 370.2 | 335.2 | 387.3 | 422.2 | 423.1 | 427.3 | 450.6             | 465.5             | 487.4             | 515.0             |
| Real estate activities .....                                | 103.0  | 150.9 | 122.8 | 145.9 | 168.9 | 177.5 | 180.2 | 187.0             | 188.1             | 199.7             | 214.2             |
| Business services .....                                     | 37.2   | 66.4  | 66.9  | 65.4  | 69.1  | 64.7  | 66.1  | 74.0              | 78.3              | 79.6              | 84.7              |
| Public administration, defence, social security funds ..... | 24.0   | 27.2  | 25.4  | 31.5  | 33.0  | 33.8  | 32.0  | 32.4              | 33.7              | 35.9              | 39.7              |
| Total .....   | 399.6  | 496.7 | 451.7 | 516.9 | 564.5 | 571.3 | 573.7 | 606.1             | 625.6             | 654.4             | 687.5             |

| Specification   | 1991   | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|---|--|---------|---------|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|
|   | Percentage share of total gross fixed capital formation                    |         |         |         |         |         |         |                   |                   |                   |                   |
| Agriculture and forestry, fishing .....                             | 1.7  | 1.3     | 1.6     | 1.6     | 1.6     | 1.6     | 1.7     | 1.7               | 1.6               | 1.5               | 1.4               |
| Industry .....  | 30.9   | 24.2    | 24.2    | 23.5    | 23.6    | 24.3    | 23.8    | 24.0              | 24.0              | 24.1              | 23.7              |
| Services .....  | 67.5   | 74.5    | 74.2    | 74.9    | 74.8    | 74.1    | 74.5    | 74.3              | 74.4              | 74.5              | 74.9              |
| Real estate activities .....  | 25.8   | 30.4    | 27.2    | 28.2    | 29.9    | 31.1    | 31.4    | 30.8              | 30.1              | 30.5              | 31.2              |
| Business services .....   | 9.3  | 13.4    | 14.8    | 12.7    | 12.2    | 11.3    | 11.5    | 12.2              | 12.5              | 12.2              | 12.3              |
| Public administration and defence; Compulsory social security ..... | 6.0  | 5.5     | 5.6     | 6.1     | 5.8     | 5.9     | 5.6     | 5.3               | 5.4               | 5.5               | 5.8               |
| Total .....   | 100  | 100     | 100     | 100     | 100     | 100     | 100     | 100               | 100               | 100               | 100               |
|   | Net stock of fixed assets at current replacement prices, billions of euros |         |         |         |         |         |         |                   |                   |                   |                   |
| Total fixed assets .....  | 4,957.5  | 6,782.9 | 7,219.8 | 8,429.2 | 8,724.8 | 9,010.6 | 9,267.7 | 9,524.5           | 9,756.8           | 9,998.1           | 10,374.7          |
|   | Percentage share of gross domestic product at current prices               |         |         |         |         |         |         |                   |                   |                   |                   |
| Investment ratio for the entire OECD region.....                    | 23.6   | 23.3    | 22.7    | 20.1    | 20.4    | 20.6    | 20.6    | 20.9              | 21.0              | 20.9              | ...               |

1 Provisional data, August 2018.

2 Intellectual property as well as animal resources and tree, crop and plant resources.

Source: Federal Statistical Office: National Accounts, August 2018

#### 4. Further information

Statistisches Bundesamt, Volkswirtschaftliche Gesamtrechnungen, Inlandsproduktsberechnung, Detaillierte Jahresergebnisse, Fachserie 18 Reihe 1.4 (only available in German)

[www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt](http://www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt)

→ Publikationen: Inlandsprodukt - Jahresergebnisse und Grundlagen

## 8 Decent work and economic growth

Economic output – Combining greater economic output with environmental and social responsibility

### 8.4 Gross domestic product per capita

#### 1. Definition

The indicator shows the price-adjusted gross domestic product (GDP) per capita (inhabitant) in Germany, based on the year 2010.

GDP measures the value of all goods and services produced domestically; inhabitants are all those people whose permanent residence is in Germany.

#### 2. Data on the time series of the indicator

| Specification  | 1991              | 1995   | 2000   | 2005   | 2010   | 2011   | 2012   | 2013   | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|--|-------------------|--------|--------|--------|--------|--------|--------|--------|-------------------|-------------------|-------------------|-------------------|
|  | Euros             |        |        |        |        |        |        |        |                   |                   |                   |                   |
| Gross domestic product (price-adjusted) per capita ..... | 25,489            | 26,381 | 28,956 | 29,833 | 32,136 | 33,316 | 33,417 | 33,489 | 34,076            | 34,370            | 34,858            | 35,477            |
|  | Billions of euros |        |        |        |        |        |        |        |                   |                   |                   |                   |
| GDP (price-adjusted, reference year = 2010).....         | 2,039             | 2,145  | 2,359  | 2,427  | 2,580  | 2,674  | 2,688  | 2,701  | 2,760             | 2,808             | 2,871             | 2,932             |
|  | Thousand          |        |        |        |        |        |        |        |                   |                   |                   |                   |
| Inhabitants .....  | 79,973            | 81,308 | 81,457 | 81,337 | 80,284 | 80,275 | 80,426 | 80,646 | 80,983            | 81,687            | 82,349            | 82,659            |

#### 3. Supplementary data

| Specification   | 1991  | 1995    | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|---|---|---------|---------|---------|---------|---------|---------|---------|-------------------|-------------------|-------------------|-------------------|
|   | 1991 = 100  |         |         |         |         |         |         |         |                   |                   |                   |                   |
| Gross domestic product (price-adjusted).....            | 100   | 105.2   | 115.7   | 119.0   | 126.6   | 131.2   | 131.8   | 132.5   | 135.4             | 137.7             | 140.8             | 143.9             |
| Inhabitants.....  | 100   | 101.7   | 101.9   | 101.7   | 100.4   | 100.4   | 100.6   | 100.8   | 101.3             | 102.1             | 103.0             | 103.4             |
| Gross domestic product (price-adjusted) per capita..... | 100   | 103.5   | 113.6   | 117.0   | 126.1   | 130.7   | 131.1   | 131.4   | 133.7             | 134.8             | 136.8             | 139.2             |
|   | Gross value added by sector of economic activity (price-adjusted, chained 2010 = 100)           |         |         |         |         |         |         |         |                   |                   |                   |                   |
| Agriculture and forestry, fishing .....                 | 150.0   | 97.1    | 103.1   | 96.5    | 100     | 89.7    | 88.9    | 93.5    | 106.6             | 91.3              | 89.3              | 92.0              |
| Industry .....  | 92.5  | 88.5    | 92.7    | 93.6    | 100     | 105.2   | 104.8   | 104.1   | 108.9             | 111.2             | 116.1             | 118.9             |
| Manufacturing .....                                     | 87.3  | 80.5    | 89.3    | 94.3    | 100     | 108.5   | 106.1   | 106.1   | 111.9             | 114.6             | 120.0             | 123.1             |
| Services .....  | 70.1  | 78.2    | 89.1    | 93.9    | 100     | 103.0   | 104.1   | 105.1   | 106.2             | 107.7             | 109.1             | 111.4             |
| Public and private service provider .....               | 75.2  | 82.9    | 90.0    | 92.6    | 100     | 101.6   | 102.3   | 102.3   | 103.1             | 105.5             | 108.2             | 109.7             |
|   | Gross value added by economic sector (price-adjusted, reference year = 2010), billions of euros |         |         |         |         |         |         |         |                   |                   |                   |                   |
| Agriculture and forestry, fishing .....                 | 25.0  | 16.2    | 17.2    | 16.1    | 16.7    | 15.0    | 14.8    | 15.6    | 17.8              | 15.2              | 14.9              | 15.4              |
| Industry .....  | 648.0   | 619.7   | 648.8   | 655.4   | 700.3   | 736.6   | 733.8   | 728.6   | 762.5             | 778.9             | 812.8             | 832.4             |
| Manufacturing .....                                     | 449.9   | 414.9   | 460.1   | 485.9   | 515.2   | 559.1   | 546.6   | 546.7   | 576.3             | 590.5             | 618.0             | 634.3             |
| Services .....  | 1,125.4   | 1,254.9 | 1,429.0 | 1,506.5 | 1,604.7 | 1,652.9 | 1,669.9 | 1,686.9 | 1,703.4           | 1,728.1           | 1,751.1           | 1,787.7           |
| Public and private service provider .....               | 311.6   | 343.6   | 372.9   | 383.8   | 414.4   | 421.0   | 423.9   | 423.8   | 427.1             | 437.0             | 448.3             | 454.7             |

| Specification   | 1991   | 1995   | 2000   | 2005   | 2010   | 2011   | 2012   | 2013   | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> | 2017 <sup>1</sup> |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|-------------------|-------------------|-------------------|
| Gross domestic product (price-adjusted, chained, 2010 = 100) per capita |        |        |        |        |        |        |        |        |                   |                   |                   |                   |
| Former territory of the Federal Republic including Berlin...            | 84.5   | 83.8   | 91.4   | 93.3   | 100    | 103.8  | 103.9  | 104.1  | 105.5             | 106.3             | 107.4             | ...               |
| New Länder without Berlin.....  | 48.9   | 74.0   | 83.5   | 90.4   | 100    | 102.6  | 103.8  | 104.4  | 107.1             | 108.6             | 109.8             | ...               |
| Germany.....  | 79.3   | 82.1   | 90.1   | 92.8   | 100    | 103.7  | 104.0  | 104.2  | 105.8             | 106.7             | 107.9             | ...               |
| Gross domestic product at current prices per capita in euro             |        |        |        |        |        |        |        |        |                   |                   |                   |                   |
| Former territory of the Federal Republic including Berlin...            | 22,532 | 25,194 | 27,857 | 30,061 | 33,938 | 35,563 | 36,173 | 36,903 | 38,084            | 39,175            | 40,123            | ...               |
| New Länder without Berlin.....  | 7,342  | 14,626 | 16,785 | 19,155 | 22,532 | 23,527 | 24,145 | 24,929 | 25,951            | 26,715            | 27,414            | ...               |
| Germany.....  | 19,754 | 23,354 | 25,983 | 28,288 | 32,137 | 33,673 | 34,296 | 35,045 | 36,211            | 37,260            | 38,180            | ...               |

1 Provisional data.

Sources: Federal Statistical Office: National Accounts, August 2018  
 Volkswirtschaftliche Gesamtrechnungen der Länder - Ergebnisse (R1B1) von August 2017/ February 2018

#### 4. Further information

Statistisches Bundesamt, Volkswirtschaftliche Gesamtrechnungen, Inlandsproduktsberechnung, Detaillierte Jahresergebnisse, Fachserie 18 Reihe 1.4 (only available in German)

[www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt](http://www.destatis.de/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt)

→ Publikationen: Inlandsprodukt - Jahresergebnisse und Grundlagen

Statistische Ämter der Länder, Arbeitskreis Volkswirtschaftliche Gesamtrechnungen der Länder (AK VGRdL) (only available in German)

[www.statistik-bw.de/VGRdL](http://www.statistik-bw.de/VGRdL)

**8 Decent work and economic growth**

Employment – *Boosting employment levels*

**8.5.a, b Employment rate**

**1. Definition**

The indicators specify the proportion of persons in employment aged between 20 and 64 years (8.5.a) and aged between 60 and 64 years (8.5.b), measured in each case as a share of the total population of the same age group.

**2. Data on the time series of the indicator**

| Age from ... to ... | Specification        | 2000   | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------------|----------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                     |                      | Employment rate - percentage shares of persons in employment in the population of the same age |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20 - 64 years       | Total.....           | 68.7   | 69.4 | 71.1 | 72.9 | 74.0 | 74.2 | 75.0 | 76.5 | 76.9 | 77.3 | 77.7 | 78.0 | 78.6 | 79.2 |
|                     | of which: Women..... | 60.7   | 63.1 | 65.0 | 66.7 | 67.8 | 68.7 | 69.7 | 71.3 | 71.6 | 72.5 | 73.1 | 73.6 | 74.5 | 75.2 |
|                     | Men.....             | 76.5   | 75.6 | 77.2 | 79.1 | 80.1 | 79.6 | 80.4 | 81.7 | 82.1 | 82.1 | 82.2 | 82.3 | 82.7 | 83.1 |
| 60 - 64 years       | Total.....           | 19.6   | 28.2 | 29.7 | 32.9 | 35.1 | 38.6 | 41.1 | 44.3 | 46.6 | 50.0 | 52.6 | 53.3 | 56.0 | 58.4 |
|                     | of which: Women..... | 12.1   | 20.7 | 21.9 | 24.9 | 27.2 | 30.4 | 33.1 | 36.5 | 38.8 | 42.8 | 46.2 | 47.9 | 50.8 | 53.3 |
|                     | Men.....             | 27.2   | 35.9 | 37.7 | 41.2 | 43.2 | 47.0 | 49.4 | 52.4 | 54.9 | 57.7 | 59.4 | 59.1 | 61.5 | 63.7 |

**3. Supplementary data**

| Age from ... to ... | Specification        | 2000   | 2005 | 2006 | 2007 | 2008 | 2009 | 2011 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------------|----------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                     |                      | Employment rate - percentage shares of persons in employment in the population of the same age |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20 - 24 years       | Total.....           | 64.8   | 58.8 | 60.9 | 62.8 | 64.0 | 62.8 | 63.3 | 65.2 | 64.2 | 64.4 | 63.9 | 63.6 | 63.6 | 64.6 |
|                     | of which: Women..... | 63.0   | 57.5 | 59.2 | 60.8 | 62.1 | 61.8 | 61.8 | 63.4 | 62.3 | 62.9 | 62.7 | 62.5 | 62.9 | 64.4 |
|                     | Men.....             | 66.7   | 60.1 | 62.5 | 64.8 | 65.9 | 63.8 | 64.7 | 67.0 | 66.0 | 65.8 | 65.1 | 64.7 | 64.2 | 64.7 |
| 25 - 59 years       | Total.....           | 76.2   | 75.7 | 77.0 | 78.5 | 79.3 | 79.4 | 80.2 | 81.7 | 82.2 | 82.4 | 82.6 | 82.8 | 83.2 | 83.6 |
|                     | of which: Women..... | 67.7   | 69.1 | 70.6 | 72.0 | 72.9 | 73.7 | 74.8 | 76.5 | 77.0 | 77.6 | 77.9 | 78.3 | 78.9 | 79.3 |
|                     | Men.....             | 84.5   | 82.3 | 83.2 | 84.9 | 85.7 | 84.9 | 85.6 | 86.9 | 87.4 | 87.2 | 87.2 | 87.2 | 87.5 | 87.7 |
| memorandum item:    |                      |  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15 - 64 years       | Total.....           | 65.3   | 65.5 | 67.2 | 69.0 | 70.1 | 70.3 | 71.3 | 72.7 | 73.0 | 73.5 | 73.8 | 74.0 | 74.7 | 75.2 |
|                     | of which: Women..... | 57.8   | 59.6 | 61.5 | 63.2 | 64.3 | 65.2 | 66.2 | 67.8 | 68.1 | 69.0 | 69.5 | 69.9 | 70.8 | 71.5 |
|                     | Men.....             | 72.7   | 71.3 | 72.8 | 74.7 | 75.8 | 75.4 | 76.3 | 77.6 | 77.9 | 78.0 | 78.1 | 78.0 | 78.4 | 78.9 |
| 55 - 64 years       | Total.....           | 37.4   | 45.5 | 48.1 | 51.3 | 53.7 | 56.1 | 57.8 | 60.0 | 61.6 | 63.6 | 65.6 | 66.2 | 68.6 | 70.1 |
|                     | of which: Women..... | 28.7   | 37.6 | 40.3 | 43.4 | 46.0 | 48.6 | 50.7 | 53.2 | 54.9 | 57.6 | 60.0 | 61.2 | 63.5 | 65.4 |
|                     | Men.....             | 46.2   | 53.6 | 56.1 | 59.4 | 61.7 | 63.8 | 65.2 | 67.1 | 68.6 | 69.9 | 71.4 | 71.3 | 73.7 | 75.0 |

| Specification                   | 2000                        | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   |
|---------------------------------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                 | Working population in 1,000 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Total.....                      | 34,626                      | 34,614 | 35,371 | 36,068 | 36,583 | 36,585 | 36,232 | 36,955 | 37,290 | 37,584 | 37,873 | 38,148 | 39,068 | 39,386 |
| of which: Women.....            | 15,208                      | 15,673 | 16,074 | 16,426 | 16,694 | 16,872 | 16,832 | 17,219 | 17,353 | 17,581 | 17,754 | 17,911 | 18,311 | 18,441 |
| Men.....                        | 19,417                      | 18,940 | 19,297 | 19,642 | 19,889 | 19,713 | 19,399 | 19,736 | 19,937 | 20,003 | 20,119 | 20,237 | 20,758 | 20,946 |
| Total full-time employment..... | 27,934                      | 26,407 | 26,364 | 26,850 | 27,362 | 27,270 | 26,908 | 27,368 | 27,647 | 27,555 | 27,798 | 27,907 | 28,615 | 28,796 |
| of which: Women.....            | 9,351                       | 8,742  | 8,656  | 8,815  | 9,049  | 9,191  | 9,110  | 9,317  | 9,424  | 9,306  | 9,460  | 9,488  | 9,732  | 9,803  |
| Men.....                        | 18,583                      | 17,665 | 17,708 | 18,035 | 18,313 | 18,079 | 17,798 | 18,050 | 18,222 | 18,249 | 18,338 | 18,419 | 18,884 | 18,993 |
| Total part-time employment..... | 6,692                       | 8,206  | 9,007  | 9,217  | 9,221  | 9,315  | 9,324  | 9,587  | 9,644  | 10,028 | 10,075 | 10,241 | 10,452 | 10,591 |
| of which: Women.....            | 5,857                       | 6,931  | 7,418  | 7,611  | 7,646  | 7,682  | 7,722  | 7,902  | 7,929  | 8,274  | 8,293  | 8,423  | 8,579  | 8,638  |
| Men.....                        | 835                         | 1,275  | 1,589  | 1,607  | 1,576  | 1,634  | 1,601  | 1,685  | 1,715  | 1,754  | 1,782  | 1,817  | 1,874  | 1,953  |

Note:

Since 2005: yearly average and modified survey and estimation methods.

Since 2011: change in recording of employment status; projection using the intercensal population updates based on the 2011 Census. The results are comparable with previous years only to a limited extent.

Sources: Federal Statistical Office: Labour force survey  
Eurostat: Labour force survey

#### 4. Further information

Eurostat

[ec.europa.eu/database](http://ec.europa.eu/database)

Statistisches Bundesamt (only available in German)

[www.destatis.de/Arbeitsmarkt/Erwerbstaetigkeit](http://www.destatis.de/Arbeitsmarkt/Erwerbstaetigkeit)

## 8 Decent work and economic growth

Global supply chains – *Enabling decent work worldwide*

### 8.6 Number of members of the Textiles Partnership

#### 1. Definition

The indicator shows the number of members of the Partnership for Sustainable Textiles (Textile Partnership).

#### 2. Data on the time series of the indicator

| Specification  | 04/2014 | 04/2015 | 04/2016 | 04/2017 | 03/2018 |
|--|---------|---------|---------|---------|---------|
|  | Number  |         |         |         |         |
| Members of the Partnership for Sustainable Textiles..... | 59      | 172     | 188     | 147     | 130     |
| Enterprises (businesses stakeholder group).....          | 28      | 115     | 127     | .       | 82      |

#### 3. Supplementary data

| Specification   | 2016              |
|---|-------------------|
|   | Billions of euros |
| Total turnover of retailers.....  | 537.5             |
| Turnover of retailers, member of the Textiles Partnership (March 2018).....                   | 31.5              |
| Total turnover of wholesalers.....  | 1,164.6           |
| Turnover of wholesalers, member of the Textiles Partnership (March 2018).....                 | 7.4               |
|   | Percentage share  |
| Turnover of retailers with clothing, textiles (excluding carpets), curtains and drapes.....   | 10.7              |
| Turnover of wholesalers with clothing, textiles (excluding carpets), curtains and drapes..... | 2.7               |

Sources: Bündnis für nachhaltige Textilien c/o Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH  
Trade statistics of the Federal Statistical Office and a special evaluation from the Federal Statistical Office's statistical business register

#### 4. Further information

Partnership for Sustainable Textiles (Bündnis für nachhaltige Textilien)

[www.textilbuendnis.com/en/](http://www.textilbuendnis.com/en/)

Statistisches Bundesamt, Groß- und Einzelhandel (only available in German)

[www.destatis.de/Groesshandel-Einzelhandel](http://www.destatis.de/Groesshandel-Einzelhandel)

## 9.1 Private and public expenditure on research and development

## 1. Definition

The indicator shows the expenditure on research and development by businesses, general government and institutions of higher education in relation to gross domestic product.

## 2. Data on the time series of the indicator

| Specification   | 1991  | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 <sup>1</sup> |
|---|---|------|------|------|------|------|------|------|------|-------------------|
|   | Expenditure as a percentage of gross domestic product |      |      |      |      |      |      |      |      |                   |
| Private and public expenditure on research and development..... | 2.40  | 2.40 | 2.43 | 2.71 | 2.80 | 2.87 | 2.82 | 2.87 | 2.92 | 2.93              |

## 3. Supplementary data

| Specification  | 1991  | 2000   | 2005   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016 <sup>1</sup> |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
|  | Expenditure as a percentage of gross domestic product |        |        |        |        |        |        |        |        |                   |
| Private and public spending on research and development..... |   |        |        |        |        |        |        |        |        |                   |
| Japan.....   | 2.68  | 2.91   | 3.18   | 3.14   | 3.24   | 3.21   | 3.31   | 3.40   | 3.28   | 3.14              |
| USA 2.....   | 2.61  | 2.62   | 2.51   | 2.74   | 2.77   | 2.69   | 2.72   | 2.73   | 2.74   | 2.74              |
| EU 28 3.....   | .   | 1.67   | 1.74   | 1.93   | 1.97   | 2.01   | 2.02   | 2.03   | 2.04   | 2.03              |
| Sweden.....  |   |        | 3.39   | 3.22   | 3.25   | 3.28   | 3.31   | 3.15   | 3.27   | 3.25              |
| OECD.....  | 2.09  | 2.12   | 2.14   | 2.29   | 2.32   | 2.31   | 2.34   | 2.36   | 2.36   | 2.35              |
|  | Millions of euros                                     |        |        |        |        |        |        |        |        |                   |
| Spending on research and development by sectors.....         | 37,848  | 50,825 | 55,879 | 70,014 | 75,569 | 79,110 | 79,729 | 84,247 | 88,782 | 92,174            |
| Government and private non-profit institutions.....          | 5,457   | 6,873  | 7,867  | 10,354 | 10,974 | 11,341 | 11,862 | 12,320 | 12,486 | 12,721            |
| Higher education institutions.....                           | 6,145   | 8,352  | 9,361  | 12,731 | 13,518 | 13,980 | 14,302 | 14,931 | 15,344 | 16,627            |
| Businesses.....  | 26,246  | 35,600 | 38,651 | 46,929 | 51,077 | 53,790 | 53,566 | 56,996 | 60,952 | 62,826            |
|  | Percentage share                                      |        |        |        |        |        |        |        |        |                   |
| Spending on research and development by sectors.....         | 100   | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100    | 100               |
| Government and private non-profit institutions.....          | 14.4  | 13.5   | 14.1   | 14.8   | 14.5   | 14.3   | 14.9   | 14.6   | 14.1   | 13.8              |
| Higher education institutions.....                           | 16.2  | 16.4   | 16.8   | 18.2   | 17.9   | 17.7   | 17.9   | 17.7   | 17.3   | 18.0              |
| Businesses.....  | 69.3  | 70.0   | 69.2   | 67.0   | 67.6   | 68.0   | 67.2   | 67.7   | 68.7   | 68.2              |

1 In part estimated.

2 Differing definition.

3 Since 2005 results by Eurostat, 2016 provisional.



| Specification                                       | 1991                               | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016 <sup>1</sup> |
|---|------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|   | Full-time equivalents <sup>4</sup> |         |         |         |         |         |         |         |         |                   |
| Staff in research and development by sectors.....   | .                                  | 484,734 | 475,279 | 548,723 | 575,099 | 591,261 | 588,615 | 605,252 | 640,516 | 657,894           |
| Government and private non-profit institutions..... | .                                  | 71,454  | 76,254  | 90,531  | 93,663  | 95,882  | 98,161  | 101,005 | 101,717 | 103,206           |
| Higher education institutions.....                  | .                                  | 100,790 | 94,522  | 120,981 | 124,308 | 127,900 | 130,079 | 132,542 | 134,032 | 141,661           |
| Businesses.....                                     | .                                  | 312,490 | 304,503 | 337,211 | 357,129 | 367,478 | 360,375 | 371,706 | 404,767 | 413,027           |
|   | Percentage share                   |         |         |         |         |         |         |         |         |                   |
| Staff in research and development by sectors.....   | .                                  | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100               |
| Government and private non-profit institutions..... | .                                  | 14.7    | 16.0    | 16.5    | 16.3    | 16.2    | 16.7    | 16.7    | 15.9    | 15.7              |
| Higher education institutions.....                  | .                                  | 20.8    | 19.9    | 22.0    | 21.6    | 21.6    | 22.1    | 21.9    | 20.9    | 21.5              |
| Businesses.....                                     | .                                  | 64.5    | 64.1    | 61.5    | 62.1    | 62.2    | 61.2    | 61.4    | 63.2    | 62.8              |

<sup>4</sup> Including only those parts of working hours that are devoted to research and development activities, summarised to full-time equivalents.

Sources: OECD: Main Science and Technology Indicators (stats.oecd.org)

Statistisches Bundesamt, Fachserie 14, Reihe 3.6 (only available in German)

Wissenschaftsstatistik GmbH im Stifterverband für die Deutsche Wissenschaft: FuE- Facts 1/2014 (only available in German)

#### 4. Further information

Wissenschaftsstatistik GmbH im Stifterverband für die Deutsche Wissenschaft: Zahlenwerk 2015. (only available in German)

Bundesministerium für Bildung und Forschung: Bundesbericht Forschung und Innovation 2014 (only available in German)

## 10 Reduced inequalities

Equal educational opportunities – *Improving educational success of foreigners in German schools*

### 10.1 Foreign school graduates

#### 1. Definition

The indicator shows the proportion of foreign school graduates as a percentage of all foreign school leavers within a school year. In this case, the term "graduates" refers to people who leave general education schools with at least a secondary general school certificate.

#### 2. Data on the time series of the indicator

| Specification  | 1996  | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 <sup>1</sup> | 2016 | 2017 |
|--|---|------|------|------|------|------|------|------|-------------------|------|------|
|  | Percentage share of all foreign leavers in a year |      |      |      |      |      |      |      |                   |      |      |
| Foreign school graduates.....                              | 80.3  | 80.1 | 82.6 | 87.2 | 88.2 | 88.6 | 89.3 | 88.1 | 88.2              | 85.8 | 81.9 |
| Foreign female graduates.....                              | .   | .    | 86.4 | 89.5 | 90.3 | 90.6 | 91.1 | 89.4 | 90.3              | 89.1 | 86.4 |
| Foreign male graduates.....                                | .   | .    | 79.1 | 85.0 | 86.2 | 86.7 | 87.6 | 86.8 | 86.2              | 82.9 | 78.1 |
| German school graduates (share of all German leavers)..... | 92.3  | 91.7 | 92.8 | 94.6 | 95.0 | 95.1 | 95.4 | 95.1 | 95.0              | 95.1 | 94.8 |

#### 3. Supplementary data

| Specification  | 1996  | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 <sup>1</sup> | 2016 | 2017 |
|--|---|------|------|------|------|------|------|------|-------------------|------|------|
|  | Percentage share of all foreign leavers in a year |      |      |      |      |      |      |      |                   |      |      |
| Foreign school graduates.....  | 80.3  | 80.1 | 82.6 | 87.2 | 88.2 | 88.6 | 89.3 | 88.1 | 88.2              | 85.8 | 81.9 |
| of which:  |   |      |      |      |      |      |      |      |                   |      |      |
| Foreign school graduates   |   |      |      |      |      |      |      |      |                   |      |      |
| with a secondary general school certificate.....   | 43.6  | 40.2 | 41.4 | 37.6 | 35.6 | 33.1 | 31.0 | 30.3 | 28.8              | 28.5 | 28.4 |
| with a mid-level certificate 2.....  | 27.5  | 28.9 | 31.2 | 35.6 | 35.9 | 37.7 | 41.9 | 42.4 | 43.9              | 40.8 | 36.1 |
| with a higher education entrance qualification for general or applied sciences universities..... | 9.2   | 11.0 | 10.1 | 14.0 | 16.7 | 17.8 | 16.4 | 15.4 | 15.4              | 16.5 | 17.4 |
| German school graduates.....   | 92.3  | 91.7 | 92.8 | 94.6 | 95.0 | 95.1 | 95.4 | 95.1 | 95.0              | 95.1 | 94.8 |
| of which:  |   |      |      |      |      |      |      |      |                   |      |      |
| German school graduates  |   |      |      |      |      |      |      |      |                   |      |      |
| with a secondary general school certificate.....   | 24.9  | 23.7 | 23.2 | 19.0 | 17.4 | 16.6 | 15.5 | 15.9 | 15.3              | 15.1 | 15.0 |
| with a mid-level certificate 2.....  | 40.6  | 40.9 | 42.6 | 41.1 | 38.7 | 39.8 | 42.2 | 44.4 | 43.7              | 43.4 | 43.6 |
| with a higher education entrance qualification for general or applied sciences universities..... | 26.7  | 27.0 | 27.0 | 34.5 | 38.8 | 38.6 | 37.7 | 34.9 | 36.0              | 36.6 | 36.3 |

<sup>1</sup> Revised results.

<sup>2</sup> Lower secondary education, ISCED level 2.

| Specification  | Graduates / leavers |         |         | of which |         |         |          |        |        |
|--|---------------------|---------|---------|----------|---------|---------|----------|--------|--------|
|  |                     |         |         | German   |         |         | Foreign  |        |        |
|  | total               | female  | male    | together | female  | male    | together | female | male   |
|  | Number <sup>3</sup> |         |         |          |         |         |          |        |        |
| School graduates / leavers.....                                      | 831,812             | 403,242 | 428,570 | 758,035  | 369,489 | 388,546 | 73,777   | 33,753 | 40,024 |
| without secondary general school certificate.....                    | 52,685              | 19,827  | 32,858  | 39,347   | 15,247  | 24,100  | 13,338   | 4,580  | 8,758  |
| with secondary general school certificate.....                       | 134,389             | 54,191  | 80,198  | 113,442  | 45,400  | 68,042  | 20,947   | 8,791  | 12,156 |
| with a mid-level certificate 4.....                                  | 356,812             | 172,772 | 184,040 | 330,174  | 159,633 | 170,541 | 26,638   | 13,139 | 13,499 |
| with entrance qualification for university of applied sciences 5.... | 628                 | 292     | 336     | 576      | 263     | 313     | 52       | 29     | 23     |
| with general university entrance qualification.....                  | 287,298             | 156,160 | 131,138 | 274,496  | 148,946 | 125,550 | 12,802   | 7,214  | 5,588  |

<sup>3</sup> Results for the year 2017.

<sup>4</sup> Lower secondary education, ISCED level 2.

<sup>5</sup> The schooling part of the entrance qualification of applied sciences universities is depicted in the mid-level certificate.

#### 4. Further information

Statistisches Bundesamt, Bildung, Fachserie 11, Reihe 1: Allgemeinbildende Schulen (only available in German)

[www.destatis.de/Bildung-Forschung-Kultur/Schulen](http://www.destatis.de/Bildung-Forschung-Kultur/Schulen)

→ Publikationen: Allgemeinbildende Schulen

## 10 Reduced inequalities

Distributive justice – Preventing excessive inequality within Germany

### 10.2 Gini coefficient of income distribution

#### 1. Definition

The indicator shows the distribution of equivalised disposable income per person using Gini coefficients.

#### 2. Data on the time series of the indicator

| Specification         | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | Gini coefficient of equivalised disposable income |       |       |       |       |       |       |       |       |       |
| Germany.....          | 0.304   | 0.302 | 0.291 | 0.293 | 0.290 | 0.283 | 0.297 | 0.307 | 0.301 | 0.295 |
| European Union 1..... | 0.306   | 0.310 | 0.306 | 0.305 | 0.308 | 0.305 | 0.305 | 0.310 | 0.310 | 0.308 |

#### 3. Supplementary data

| Specification         | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | Gini coefficient of equivalised income before social transfers <sup>2</sup> |       |       |       |       |       |       |       |       |       |
| Germany.....          | 0.373   | 0.367 | 0.355 | 0.359 | 0.358 | 0.345 | 0.362 | 0.371 | 0.363 | 0.359 |
| European Union 1..... | 0.361   | 0.361 | 0.360 | 0.363 | 0.367 | 0.361 | 0.363 | 0.366 | 0.365 | 0.362 |
|                       | Gini coefficient of wealth  |       |       |       |       |       |       |       |       |       |
| Germany.....          | .   | .     | .     | 0.760 | .     | .     | .     | 0.760 | .     | .     |
| Eurozone.....         | .   | .     | .     | 0.678 | .     | .     | .     | 0.685 | .     | .     |
|                       | Gini coefficient of market income   |       |       |       |       |       |       |       |       |       |
| Germany.....          | .   | 0.494 | 0.493 | 0.492 | 0.505 | 0.501 | 0.508 | 0.500 | 0.504 | ...   |

1 Until 2009 EU 27, from 2010 EU 28.

2 Social transfers do not include pensions.

Sources: Federal Statistical Office, Eurostat, German Bundesbank, European Central Bank, German Institute for Economic Research

#### 4. Further information

Statistisches Bundesamt, EU-SILC (only available in German)

[www.destatis.de/Lebensbedingungen-Armutsgefaehrdung/EU-SILC](http://www.destatis.de/Lebensbedingungen-Armutsgefaehrdung/EU-SILC)

## 11 Sustainable cities and communities

### Land use – Using land sustainably

#### 11.1.a Expansion of settlement and transport area

##### 1. Definition

The indicator shows the average daily expansion of the settlement and transport area.

##### 2. Data on the time series of the indicator

| Specification  | 1992             | 1996 <sup>1</sup> | 2000 | 2004 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|
|  | Hectares per day |                   |      |      |      |      |      |      |      |      |      |      |      |
| Expansion of settlement and transport area <sup>2</sup><br>(moving four-year average)..... | .                | 120               | 129  | 115  | 104  | 94   | 87   | 81   | 74   | 73   | 69   | 66   | 62   |
| Expansion of settlement and transport area.....  | .                | 120               | 131  | 131  | 95   | 78   | 77   | 74   | 69   | 71   | 63   | 61   | /    |
| Transport area.....  | .                | 24                | 24   | 25   | 21   | 18   | 21   | 17   | 11   | 19   | 23   | 10   | /    |
| Buildings and adjacent open area, commercial/industrial area 2.....                        | .                | 87                | 87   | 60   | 35   | 28   | 33   | 30   | 40   | 29   | 22   | 40   | /    |
| Recreation area, cemetery.....   | .                | 9                 | 21   | 46   | 39   | 32   | 23   | 27   | 18   | 23   | 18   | 12   | /    |

1 Average 1993 - 1996.

2 Excluding exploitation area.

##### Note:

Regarding the area survey by type of actual use, a methodological change in the survey basis took place in 2016, so that the comparability of the data with previous years is limited from 2016 onwards .

##### 3. Supplementary data

| Specification                      | 1992                                     | 1996 <sup>1</sup> | 2000    | 2004    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    |
|------------------------------------|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                    | km <sup>2</sup>                          |                   |         |         |         |         |         |         |         |         |         |         |
| Settlement and transport area..... | 40,305                                   | 42,052            | 43,939  | 45,621  | 47,137  | 47,422  | 47,702  | 48,133  | 48,368  | 48,597  | 48,910  | 49,066  |
| Settlement area.....               | 23,865                                   | 25,266            | 26,822  | 28,175  | 29,347  | 29,566  | 29,772  | 30,249  | 30,444  | 30,612  | 30,837  | 30,959  |
| Transport area.....                | 16,441                                   | 16,786            | 17,118  | 17,446  | 17,790  | 17,856  | 17,931  | 17,884  | 17,923  | 17,985  | 18,072  | 18,108  |
| including:                         |  |                   |         |         |         |         |         |         |         |         |         |         |
| Recreation area, cemetery.....     | 2,582                                    | 2,709             | 3,009   | 3,483   | 4,144   | 4,261   | 4,346   | 4,561   | 4,629   | 4,709   | 4,789   | 4,832   |
| Agricultural area.....             | 195,112                                  | 193,075           | 191,028 | 189,324 | 187,646 | 187,291 | 186,934 | 185,253 | 184,982 | 184,779 | 184,596 | 184,332 |
| Forest / wood.....                 | 104,536                                  | 104,908           | 105,314 | 106,488 | 107,349 | 107,534 | 107,664 | 108,751 | 108,909 | 109,098 | 109,309 | 109,515 |
| Germany, total.....                | 356,970                                  | 357,030           | 357,031 | 357,050 | 357,111 | 357,125 | 357,127 | 357,138 | 357,169 | 357,341 | 357,376 | 357,409 |
|                                    | Share of housing and transport area in % |                   |         |         |         |         |         |         |         |         |         |         |
| Recreation area, cemetery.....     | 6.4                                      | 6.4               | 6.8     | 7.6     | 8.8     | 9.0     | 9.1     | 9.5     | 9.6     | 9.7     | 9.8     | 9.8     |

| Specification                   | 1992                | 1996 <sup>1</sup> | 2000 | 2004 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---------------------------------|---------------------|-------------------|------|------|------|------|------|------|------|------|------|------|
|                                 | Share of total in % |                   |      |      |      |      |      |      |      |      |      |      |
| Housing and transport area..... | 11.3                | 11.8              | 12.3 | 12.8 | 13.2 | 13.3 | 13.4 | 13.5 | 13.5 | 13.6 | 13.7 | 13.7 |
| Agricultural area.....          | 54.7                | 54.1              | 53.5 | 53.0 | 52.5 | 52.4 | 52.3 | 51.9 | 51.8 | 51.7 | 51.7 | 51.6 |
| Wooded area.....                | 29.3                | 29.4              | 29.5 | 29.8 | 30.1 | 30.1 | 30.1 | 30.5 | 30.5 | 30.5 | 30.6 | 30.6 |

1 Average 1993 - 1996.

Source: Federal Statistical Office, Area Survey

#### 4. Further information

Statistisches Bundesamt, Flächenerhebung, Fachserie 3, Reihe 5.1: Bodenfläche nach art der tatsächlichen Nutzung (only available in German)

[www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung](http://www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung)

## 11 Sustainable cities and communities

Land use – Using land sustainably

### 11.1.b Loss of open space area

#### 1. Definition

The indicator represents the annual change in the per capita open space area in square metres as a four-year moving average.

#### 2. Data on the time series of the indicator

| Specification        | 2004  | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------|---|------|------|------|------|------|------|------|------|------|------|------|
|                      | Change in per capita open space area, square metres per year (four-year moving average) |      |      |      |      |      |      |      |      |      |      |      |
| Germany, total.....  | -5.1  | -5.0 | -4.8 | -4.7 | -4.6 | -4.3 | -4.0 | -4.2 | -3.8 | -3.6 | -3.7 | -2.9 |
| Non-rural areas..... | -1.8  | -1.8 | -1.7 | -1.7 | -1.7 | -1.5 | -1.5 | -1.4 | -1.2 | -1.2 | -1.1 | -1.0 |
| Rural areas.....     | -7.4  | -7.3 | -7.1 | -6.9 | -6.7 | -6.4 | -5.9 | -6.3 | -5.7 | -5.5 | -5.7 | -4.3 |

#### 3. Supplementary data

| Specification        | 2004   | 2005     | 2006     | 2007     | 2008     | 2009     | 2010     | 2011     | 2012     | 2013     | 2014     | 2015     |
|----------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      | Population, thousand   |          |          |          |          |          |          |          |          |          |          |          |
| Germany, total.....  | 82,500.8   | 82,438.0 | 82,314.9 | 82,217.8 | 82,002.4 | 81,802.3 | 81,751.6 | 80,327.9 | 80,523.7 | 80,767.5 | 81,197.5 | 82,175.7 |
| Non-rural areas..... | 34,419.2   | 34,478.9 | 34,545.2 | 34,616.6 | 34,637.0 | 34,649.0 | 34,758.1 | 34,105.6 | 34,346.4 | 34,579.2 | 34,865.7 | 35,374.2 |
| Rural areas.....     | 48,081.7   | 47,959.1 | 47,769.7 | 47,601.2 | 47,365.4 | 47,153.3 | 46,993.5 | 46,222.3 | 46,177.4 | 46,188.3 | 46,331.8 | 46,801.5 |
|                      | Settlement and transport area <sup>1</sup> , square kilometres |          |          |          |          |          |          |          |          |          |          |          |
| Germany, total.....  | 45,621   | 46,000   | 46,379   | 46,758   | 47,137   | 47,422   | 47,702   | 48,133   | 48,368   | 48,597   | 48,894   | 49,066   |
| Non-rural areas..... | 10,207   | 10,264   | 10,322   | 10,380   | 10,437   | 10,478   | 10,526   | 10,572   | 10,607   | 10,641   | 10,671   | 10,704   |
| Rural areas.....     | 35,414   | 35,736   | 36,057   | 36,378   | 36,700   | 36,943   | 37,176   | 37,561   | 37,761   | 37,956   | 38,223   | 38,361   |

<sup>1</sup> Years between 2004 and 2008 were interpolated.

Note:

Because of the corrections due to the 2011 census and the 2016 ALKIS changeover, there are discontinuities in the time series. Time comparisons are only appropriate in the time intervals 2004 to 2010, 2011 to 2015 and from 2016 onwards.

Sources: Federal Statistical Office: Population Statistics, Area Survey  
Federal Institute for Research on Building, Urban Affairs and Spatial Development

#### 4. Further information

Statistisches Bundesamt, Flächenerhebung, Fachserie 3, Reihe 5.1: Bodenfläche nach Art der tatsächlichen Nutzung (only available in German)

[www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung](http://www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung)

Statistisches Bundesamt, Bevölkerungsstatistik, Fachserie 1, Reihe 1.3: Bevölkerung und Erwerbstätigkeit (only available in German)

[www.destatis.de/Bevoelkerung](http://www.destatis.de/Bevoelkerung)

## 11 Sustainable cities and communities

### Land use – Using land sustainably

#### 11.1.c Density of settlements

##### 1. Definition

The indicator shows the number of inhabitants per square kilometre of settlement and transport area.

##### 2. Data on the time series of the indicator

| Specification                       | 2000       | 2004 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-------------------------------------|------------|------|------|------|------|------|------|------|------|------|------|
|                                     | 2000 = 100 |      |      |      |      |      |      |      |      |      |      |
| Density of settlements <sup>1</sup> |            |      |      |      |      |      |      |      |      |      |      |
| Germany, total.....                 | 100        | 97   | 93   | 92   | 92   | 91   | 91   | 90   | 90   | 91   | 91   |
| Non-rural areas.....                | 100        | 98   | 97   | 96   | 96   | 96   | 97   | 97   | 98   | 99   | 99   |
| Rural areas.....                    | 100        | 96   | 91   | 90   | 89   | 88   | 88   | 87   | 87   | 87   | 87   |

##### 3. Supplementary data

| Specification        | 2000  | 2004     | 2008     | 2009     | 2010     | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     |
|----------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      | Population, thousand  |          |          |          |          |          |          |          |          |          |          |
| Germany, total.....  | 80,753.6  | 80,990.4 | 80,501.1 | 80,304.6 | 80,254.9 | 80,327.9 | 80,523.7 | 80,767.5 | 81,197.5 | 82,175.7 | 82,521.7 |
| Non-rural areas..... | 33,362.8  | 33,601.4 | 33,814.1 | 33,825.8 | 33,932.4 | 34,105.6 | 34,346.4 | 34,579.2 | 34,865.7 | 35,374.2 | 35,620.1 |
| Rural areas.....     | 47,399.1  | 47,396.0 | 46,689.9 | 46,480.9 | 46,323.3 | 46,222.3 | 46,177.4 | 46,188.3 | 46,331.8 | 46,801.5 | 46,901.6 |
|                      | Settlement and transport area, square kilometres              |          |          |          |          |          |          |          |          |          |          |
| Germany, total.....  | 43,953  | 45,636   | 47,152   | 47,437   | 47,717   | 48,148   | 48,384   | 48,613   | 48,909   | 49,081   | 49,254   |
| Non-rural areas..... | 9,921   | 10,168   | 10,397   | 10,438   | 10,486   | 10,531   | 10,566   | 10,600   | 10,630   | 10,663   | 10,697   |
| Rural areas.....     | 34,031  | 35,467   | 36,754   | 36,998   | 37,231   | 37,616   | 37,817   | 38,012   | 38,279   | 38,418   | 38,557   |
|                      | Inhabitants per km <sup>2</sup> of housing and transport area |          |          |          |          |          |          |          |          |          |          |
| Germany, total.....  | 1,837   | 1,775    | 1,707    | 1,693    | 1,682    | 1,668    | 1,664    | 1,661    | 1,660    | 1,674    | 1,675    |
| Non-rural areas..... | 3,363   | 3,305    | 3,252    | 3,241    | 3,236    | 3,238    | 3,251    | 3,262    | 3,280    | 3,317    | 3,330    |
| Rural areas.....     | 1,393   | 1,336    | 1,270    | 1,256    | 1,244    | 1,229    | 1,221    | 1,215    | 1,210    | 1,218    | 1,216    |

1 Recalculated, chain-linked time series due to the changeover from the Automated Real Estate Book (ALB) to the Official Real Estate Register Information System (ALKIS) as of 2016.

2 Recalculated and updated population based on the 2011 census.

Sources: Federal Statistical Office: Population Statistics, Area Survey  
Federal Institute for Research on Building, Urban Affairs and Spatial Development



#### 4. Further information

Statistisches Bundesamt, Flächenerhebung, Fachserie 3, Reihe 5.1: Bodenfläche nach art der tatsächlichen Nutzung (only available in German)

[www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung](http://www.destatis.de/Landwirtschaft-Forstwirtschaft-Fischerei/Flaechennutzung)

Statistisches Bundesamt, Bevölkerungsstatistik, Fachserie 1, Reihe 1.3: Bevölkerung und Erwerbstätigkeit (only available in German)

Rückgerechnete und fortgeschriebene Bevölkerung auf Grundlage des Zensus 2011 (only available in German)

[www.destatis.de/Bevoelkerung](http://www.destatis.de/Bevoelkerung)

11 Sustainable cities and communities

Mobility – *Guaranteeing mobility – Protecting the environment*

11.2.a Final energy consumption in goods transport

1. Definition

Final energy consumption in goods transport represents the energy consumption for the carriage of goods within Germany via inland shipping, by rail and by road.

2. Data on the time series of the indicator

| Specification   | 2005       | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 <sup>1</sup> |
|---|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|   | 2005 = 100 |       |       |       |       |       |       |       |       |       |       |                   |
| Final energy consumption for the carriage of goods..... | 100        | 105.0 | 108.2 | 106.9 | 97.8  | 103.3 | 105.5 | 102.8 | 103.9 | 106.2 | 108.1 | 110.0             |
| Goods transport performance 2.....                      | 100        | 108.5 | 112.7 | 113.4 | 100.8 | 108.5 | 108.7 | 106.8 | 109.6 | 111.1 | 112.4 | 112.9             |
| Final energy consumption per tonne-kilometre.....       | 100        | 96.7  | 96.0  | 94.3  | 97.0  | 95.2  | 97.1  | 96.2  | 94.8  | 95.6  | 96.1  | 97.5              |
| memorandum item:  |            |       |       |       |       |       |       |       |       |       |       |                   |
| Intensity of goods transport.....                       | 100        | 104.1 | 105.2 | 104.7 | 98.7  | 102.1 | 98.6  | 96.4  | 98.5  | 98.3  | 97.8  | 96.3              |

3. Supplementary data

| Specification   | 2005                    | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 <sup>1</sup> |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|   | Billion megajoules      |       |       |       |       |       |       |       |       |       |       |                   |
| Final energy consumption for the carriage of goods..... | 507.0                   | 532.2 | 548.5 | 541.9 | 495.9 | 523.6 | 534.9 | 521.2 | 526.9 | 538.7 | 547.8 | 557.7             |
| by road.....  | 463.3                   | 488.2 | 504.4 | 498.6 | 459.3 | 482.7 | 494.5 | 482.0 | 486.9 | 499.6 | 508.6 | 520.0             |
| by rail.....  | 19.3                    | 19.9  | 20.0  | 19.6  | 16.2  | 18.5  | 18.9  | 18.3  | 18.9  | 17.8  | 18.2  | 17.6              |
| by inland shipping.....                                 | 24.4                    | 24.1  | 24.2  | 23.7  | 20.3  | 22.3  | 21.4  | 20.8  | 21.2  | 21.3  | 21.1  | 20.1              |
|   | 2005 = 100              |       |       |       |       |       |       |       |       |       |       |                   |
| Final energy consumption for the carriage of goods..... | 100                     | 105.0 | 108.2 | 106.9 | 97.8  | 103.3 | 105.5 | 102.8 | 103.9 | 106.2 | 108.1 | 110.0             |
| by road.....  | 100                     | 105.4 | 108.9 | 107.6 | 99.1  | 104.2 | 106.7 | 104.0 | 105.1 | 107.8 | 109.8 | 112.2             |
| by rail.....  | 100                     | 103.2 | 103.8 | 102.0 | 84.3  | 96.0  | 98.3  | 95.2  | 98.3  | 92.2  | 94.4  | 91.5              |
| by inland shipping.....                                 | 100                     | 98.8  | 98.8  | 96.8  | 82.9  | 91.4  | 87.7  | 85.2  | 86.6  | 87.3  | 86.3  | 82.2              |
|   | Billion tonne-kilometre |       |       |       |       |       |       |       |       |       |       |                   |
| Good transport performance 2.....                       | 562.2                   | 610.0 | 633.4 | 637.3 | 566.9 | 610.2 | 611.0 | 600.6 | 616.4 | 624.7 | 632.1 | 634.5             |
| by road.....  | 402.7                   | 439.1 | 454.1 | 457.6 | 415.6 | 440.6 | 442.6 | 432.0 | 443.7 | 452.9 | 460.2 | 464.0             |
| by rail.....  | 95.4                    | 107.0 | 114.6 | 115.7 | 95.8  | 107.3 | 113.3 | 110.1 | 112.6 | 112.6 | 116.6 | 116.2             |
| by inland shipping.....                                 | 64.1                    | 64.0  | 64.7  | 64.1  | 55.5  | 62.3  | 55.0  | 58.5  | 60.1  | 59.1  | 55.3  | 54.3              |

<sup>1</sup> Partially provisional data.

<sup>2</sup> Goods transport performance in the territory of the Federal Republic of Germany (excluding carriage by air, via pipeline and on lorries (< 3.5 t payload)).

| Specification                                     | 2005                       | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 <sup>1</sup> |
|---|----------------------------|------|------|------|------|------|------|------|------|------|------|-------------------|
|   | Megajoules/tonne-kilometre |      |      |      |      |      |      |      |      |      |      |                   |
| Final energy consumption per tonne-kilometre..... | 0.90                       | 0.87 | 0.87 | 0.85 | 0.87 | 0.86 | 0.88 | 0.87 | 0.85 | 0.86 | 0.87 | 0.88              |
| Carriage by road.....                             | 1.15                       | 1.11 | 1.11 | 1.09 | 1.11 | 1.10 | 1.12 | 1.12 | 1.10 | 1.10 | 1.11 | 1.12              |
| Carriage by rail.....                             | 0.20                       | 0.19 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15              |
| Carriage by inland shipping.....                  | 0.38                       | 0.38 | 0.37 | 0.37 | 0.37 | 0.36 | 0.39 | 0.36 | 0.35 | 0.36 | 0.38 | 0.37              |

Sources: Federal Ministry of Transport and Digital Infrastructure (editor): Transport in figures 2017/2018  
 Institute for Energy and Environmental Research  
 Federal Statistical Office

#### 4. Further information

Bundesministerium für Verkehr und digitale Infrastruktur (Hrsg.): Verkehr in Zahlen, Ausgabe 2017/2018 (only available in German)

Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 5 (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft

11 Sustainable cities and communities

Mobility – *Guaranteeing mobility – Protecting the environment*

11.2.b Final energy consumption in passenger transport

1. Definition

Final energy consumption in passenger transport represents the energy consumption for the carriage of people within Germany by rail, by air and by road (public and private transport).

2. Data on the time series of the indicator

| Specification   | 2005       | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 <sup>1</sup> |
|---|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|   | 2005 = 100 |       |       |       |       |       |       |       |       |       |       |                   |
| Final energy consumption in passenger transport.....  | 100        | 99.2  | 98.4  | 97.2  | 98.1  | 97.9  | 98.5  | 97.8  | 97.5  | 98.2  | 98.9  | 98.9              |
| Passenger transport performance 2.....                | 100        | 100.8 | 100.9 | 101.6 | 102.5 | 102.9 | 104.0 | 104.3 | 105.1 | 106.7 | 108.1 | 110.5             |
| Final energy consumption per passenger-kilometre..... | 100        | 98.3  | 97.5  | 95.6  | 95.7  | 95.2  | 94.7  | 93.7  | 92.7  | 92.0  | 91.5  | 89.5              |
| memorandum item:                                      |            |       |       |       |       |       |       |       |       |       |       |                   |
| Intensity of passenger transport.....                 | 100        | 97.2  | 94.3  | 93.9  | 100.3 | 96.8  | 94.4  | 94.2  | 94.4  | 94.1  | 93.7  | 93.9              |

3. Supplementary data

| Specification  | 2005                        | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016 <sup>1</sup> |
|--|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|  | Billion megajoules          |         |         |         |         |         |         |         |         |         |         |                   |
| Final energy consumption in passenger transport..... | 1,672.8                     | 1,658.8 | 1,646.4 | 1,625.6 | 1,640.8 | 1,638.4 | 1,648.4 | 1,635.5 | 1,631.0 | 1,642.7 | 1,654.7 | 1,653.7           |
| by road.....   | 1,594.3                     | 1,580.5 | 1,568.3 | 1,547.1 | 1,564.0 | 1,562.2 | 1,572.6 | 1,561.9 | 1,561.2 | 1,573.9 | 1,585.1 | 1,582.1           |
| by rail.....   | 45.5                        | 44.3    | 43.2    | 43.4    | 43.0    | 42.4    | 41.7    | 41.7    | 40.9    | 39.5    | 39.0    | 40.4              |
| by air 3.....  | 33.0                        | 34.1    | 34.9    | 35.2    | 33.8    | 33.7    | 34.0    | 31.9    | 28.9    | 29.3    | 30.6    | 31.3              |
|  | Billion passenger-kilometre |         |         |         |         |         |         |         |         |         |         |                   |
| Passenger transport performance 2.....               | 1,044.5                     | 1,053.3 | 1,054.4 | 1,061.6 | 1,070.1 | 1,075.1 | 1,086.4 | 1,089.7 | 1,098.1 | 1,114.7 | 1,129.3 | 1,154.3           |
| Carriage by rail.....                                | 76.8                        | 79.0    | 79.1    | 82.5    | 82.3    | 83.9    | 85.4    | 88.8    | 89.6    | 91.0    | 91.7    | 95.8              |
| Carriage by air 3.....                               | 9.5                         | 9.9     | 10.6    | 11.0    | 10.6    | 10.7    | 10.6    | 10.3    | 9.9     | 10.0    | 10.1    | 10.4              |
| Public transport by road 4.....                      | 82.5                        | 81.8    | 81.3    | 79.6    | 78.6    | 78.1    | 78.0    | 76.0    | 77.1    | 78.8    | 81.8    | 82.5              |
| Private motorised transport.....                     | 875.7                       | 882.6   | 883.4   | 888.5   | 898.7   | 902.4   | 912.4   | 914.6   | 921.4   | 935.0   | 945.7   | 965.5             |
| by purposes:   |                             |         |         |         |         |         |         |         |         |         |         |                   |
| Commuting.....                                       | 167.5                       | 168.7   | 172.0   | 172.3   | 174.8   | 175.9   | 179.0   | 180.8   | 182.5   | 186.6   | 189.5   | ...               |
| Education.....                                       | 17.5                        | 17.4    | 17.2    | 17.0    | 17.5    | 17.5    | 18.0    | 18.0    | 18.4    | 18.9    | 19.0    | ...               |
| Business.....  | 114.8                       | 116.8   | 119.8   | 123.5   | 125.2   | 127.3   | 129.4   | 130.4   | 131.0   | 133.7   | 136.8   | ...               |
| Shopping.....  | 164.2                       | 163.7   | 160.6   | 159.6   | 161.2   | 160.8   | 161.9   | 161.4   | 162.6   | 164.3   | 165.3   | ...               |
| Recreation.....                                      | 311.3                       | 314.7   | 311.0   | 313.6   | 317.6   | 319.2   | 323.8   | 323.7   | 327.6   | 332.0   | 334.5   | ...               |
| Conveyance of others.....                            | 54.7                        | 54.8    | 53.3    | 55.7    | 56.0    | 55.4    | 55.3    | 54.8    | 55.0    | 55.4    | 55.7    | ...               |
| Holiday.....   | 45.6                        | 46.6    | 49.6    | 46.8    | 46.4    | 46.3    | 45.0    | 45.6    | 44.3    | 44.1    | 44.8    | ...               |

| Specification   | 2005                           | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 <sup>1</sup> |
|---|--------------------------------|------|------|------|------|------|------|------|------|------|------|-------------------|
|   | Megajoules/passenger-kilometre |      |      |      |      |      |      |      |      |      |      |                   |
| Final energy consumption per passenger-kilometre..... | 1.60                           | 1.57 | 1.56 | 1.53 | 1.53 | 1.52 | 1.52 | 1.50 | 1.49 | 1.47 | 1.47 | 1.43              |
| by road.....  | 1.66                           | 1.64 | 1.63 | 1.60 | 1.60 | 1.59 | 1.59 | 1.58 | 1.56 | 1.55 | 1.54 | 1.51              |
| by rail.....  | 0.59                           | 0.56 | 0.55 | 0.53 | 0.52 | 0.50 | 0.49 | 0.47 | 0.46 | 0.43 | 0.43 | 0.42              |
| by air 3.....   | 3.48                           | 3.45 | 3.29 | 3.21 | 3.20 | 3.16 | 3.20 | 3.10 | 2.92 | 2.94 | 3.02 | 3.00              |

1 Partially provisional data.

2 Passenger transport performance within the territory of the Federal Republic of Germany (including carriage by air).

3 Domestic flights.

4 Until 2003 only enterprises with at least six omnibuses.

Sources: Federal Ministry of Transport and Digital Infrastructure (editor): Transport in figures 2017/2018  
 Institute for Energy and Environmental Research  
 Federal Statistical Office

#### 4. Further information

Bundesministerium für Verkehr und digitale Infrastruktur (Hrsg.): Verkehr in Zahlen, Ausgabe 2017/2018 (only available in German)

Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 5 (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft

**11 Sustainable cities and communities**

Mobility – *Guaranteeing mobility – Protecting the environment*

**11.2.c Accessibility of medium-sized and large cities by public transport**

**1. Definition**

The indicator shows the population-weighted average travel time by public transport to the nearest medium-sized or large city.

**2. Data on the time series of the indicator**

| Specification                        | 2012    | 2016 |
|--------------------------------------|---------|------|
|                                      | Minutes |      |
| Travel time by public transport..... | 23.5    | 22.4 |

**3. Supplementary data**

| Specification  | 2012             | 2016  |
|--|------------------|-------|
|  | Percentage share |       |
| Stops from where the next medium-sized/large city can be reached within the standard travel time |                  |       |
| Standard travel time: max. 45 minutes.....   | 84.0             | 92.0  |
| Standard travel time: max. 60 minutes.....   | 83.5             | 92.7  |
|  | Number           |       |
| Medium-sized or large city.....  | 1,010            | 1,069 |

Source: Federal Institute for Research on Building, Urban Affairs and Spatial Development

| Specification                                   | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|------|------|------|------|------|------|------|------|
|   | %    |      |      |      |      |      |      |      |
| Population with access to public transport..... | 94,3 | 94,0 | 94,4 | 92,8 | 94,3 | 93,6 | 93,6 | 94,2 |

Source: Federal Ministry of Transport and Digital Infrastructure

**4. Further information**

Federal Institute for Research on Building, Urban Affairs and Spatial Development

[www.bbsr.bund.de](http://www.bbsr.bund.de)

## 11 Sustainable cities and communities

Housing – Affordable housing for all

### 11.3 Housing cost overload

#### 1. Definition

The indicator shows the share of people who live in households that spend more than 40% of their disposable household income on housing.

Housing expenditure includes net rent, heating expenses, incidental rental expenses, energy costs and expenditure on water supply as well as value-maintaining investments and interest payments on loans in the case of residential ownership.

#### 2. Data on the time series of the indicator

| Specification   | 2010    | 2011 | 2012 | 2013 | 2014 | 2015 <sup>1</sup> | 2016 | 2017 <sup>1</sup> |
|---|---------|------|------|------|------|-------------------|------|-------------------|
|   | Percent |      |      |      |      |                   |      |                   |
| Proportion of people in households that spend more than 40 % of their disposable income on housing..... | 14.5    | 16.1 | 16.6 | 16.4 | 15.9 | 15.6              | 15.8 | 14.5              |

#### 3. Supplementary data

| Specification  | 2010             | 2011 | 2012 | 2013 | 2014 | 2015 <sup>1</sup> | 2016 | 2017 <sup>1</sup> |
|--|------------------|------|------|------|------|-------------------|------|-------------------|
|  | Percentage share |      |      |      |      |                   |      |                   |
| Proportion of the population overburdened by housing costs among those at risk of poverty.....     | 42.2             | 46.3 | 51.7 | 49.2 | 54.4 | 51.9              | 50.3 | 48.5              |
| Proportion of the population overburdened by housing costs among those not at risk of poverty..... | 9.4              | 10.5 | 9.9  | 10.1 | 8.3  | 8.4               | 9.1  | 7.9               |
| Proportion of people in households that spend more than 40 % of their disposable income on housing |                  |      |      |      |      |                   |      |                   |
| Germany.....   | 14.5             | 16.1 | 16.6 | 16.4 | 15.9 | 15.6              | 15.8 | 14.5              |
| European Union.....  | 10.8             | 11.4 | 11   | 11.1 | 11.6 | 11.4              | 11.1 | ...               |
| including:   |                  |      |      |      |      |                   |      |                   |
| Belgium.....   | 8.9              | 10.6 | 11   | 9.6  | 10.4 | 9.4               | 9.5  | 9.1               |
| France.....  | 5.1              | 5.2  | 5.2  | 5.2  | 5.1  | 5.7               | 5.2  | ...               |
| Italy.....   | 7.7              | 8.7  | 8.1  | 8.9  | 8.5  | 8.6               | 9.6  | ...               |
| Netherlands.....   | 14               | 14.5 | 14.4 | 15.7 | 15.4 | 14.9              | 10.7 | 9.6               |
| Austria.....   | 7.5              | 7.8  | 7    | 7.2  | 6.6  | 6.4               | 7.2  | 7.1               |
| Sweden.....  | 7.8              | 9.3  | 8.7  | 9    | 8.6  | 8.7               | 8.5  | 8.4               |
| Euro zone.....   | 9.6              | 10.7 | 11.1 | 11.3 | 11.4 | 11.3              | 11   | ...               |

<sup>1</sup> Data for 2015 partially revised, 2017 partially provisional.

Sources: Federal Statistical Office, Eurostat

#### 4. Further information

Eurostat

[ec.europa.eu/eurostat/web/income-and-living-conditions/overview](http://ec.europa.eu/eurostat/web/income-and-living-conditions/overview)

## 12 Responsible consumption and production

Responsible consumption – *Making consumption environmentally and socially compatible*

### 12.1.a Market share of products certified by publicly managed eco-labelling schemes

#### 1. Definition

The indicator measures the market share of products with voluntary or mandatory eco-labels, whose awarding procedures are stipulated by governmental bodies.

#### 2. Data on the time series of the indicator

| Specification  | 2012 <sup>1</sup>     | 2013 <sup>1</sup> | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> |
|--|-----------------------|-------------------|-------------------|-------------------|-------------------|
|  | Market share, percent |                   |                   |                   |                   |
| Products certified by publicly managed eco-labelling schemes ..... | 3.6                   | 4.4               | 5.9               | 7.5               | 8.6               |

#### 3. Supplementary data

| Specification                            | 2012 <sup>1</sup>        | 2013 <sup>1</sup> | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> |
|--|--------------------------|-------------------|-------------------|-------------------|-------------------|
|  | Sales, millions of euros |                   |                   |                   |                   |
| All product categories .....             | 9,480                    | 11,523            | 16,150            | 21,825            | 25,683            |
| including:                               |                          |                   |                   |                   |                   |
| Refrigerators .....                      | 175                      | 287               | 335               | 362               | 392               |
| Freezers .....                           | 48                       | 89                | 107               | 100               | 109               |
| Washing machines .....                   | 663                      | 846               | 1,079             | 1,199             | 1,280             |
| Dishwashers .....                        | 108                      | 148               | 200               | 255               | 273               |
| Drier .....                              | 0                        | 10                | 32                | 84                | 160               |
| Electric cookers / ovens .....           | 0                        | 0                 | 0                 | 0                 | 0                 |
| Televisions .....                        | 29                       | 168               | 352               | 233               | 55                |
| Illuminants .....                        | 10                       | 33                | 86                | 135               | 169               |
| Organic foods .....                      | 7,040                    | 7,420             | 7,760             | 8,620             | 9,480             |
| Cars .....                               | 1,153                    | 2,251             | 5,890             | 10,532            | 13,476            |
| Laundry detergent / cleaning agent ..... | 0                        | 1                 | 1                 | 2                 | 3                 |
| Sanitary paper .....                     | 253                      | 270               | 307               | 302               | 286               |



| Specification                            | 2012 <sup>1</sup>                           | 2013 <sup>1</sup> | 2014 <sup>1</sup> | 2015 <sup>1</sup> | 2016 <sup>1</sup> |
|--|---|-------------------|-------------------|-------------------|-------------------|
|  | Proportion of total sales, percentage share |                   |                   |                   |                   |
| Refrigerators .....                      | 12.0  | 19.2              | 21.6              | 22.7              | 24.2              |
| Freezers .....                           | 14.7  | 26.1              | 29.9              | 28.6              | 31.8              |
| Washing machines .....                   | 48.6  | 61.8              | 75.6              | 80.9              | 85.2              |
| Dishwashers .....                        | 10.0  | 13.2              | 17.3              | 21.2              | 22.4              |
| Drier .....                              | 0.0   | 2.0               | 5.7               | 13.7              | 25.4              |
| Electric cookers / ovens .....           | 0.0   | 0.0               | 0.0               | 0.0               | 0.0               |
| Televisions .....                        | 0.5   | 3.8               | 8.1               | 6.4               | 1.5               |
| Illuminants .....                        | 3.0   | 8.6               | 21.4              | 32.4              | 41.3              |
| Organic foods .....                      | 4.2   | 4.3               | 4.4               | 4.6               | 5.0               |
| Cars .....                               | 1.4   | 2.9               | 7.1               | 11.8              | 14.4              |
| Laundry detergent / cleaning agent ..... | 0.0   | 0.0               | 0.0               | 0.1               | 0.1               |
| Sanitary paper .....                     | 15.1  | 16.2              | 18.0              | 17.3              | 16.0              |

<sup>1</sup> Provisional data.

Sources: Gesellschaft für Konsumforschung, Federal Motor Transport Authority, Agricultural Market Information Company, Bund Ökologische Lebensmittelwirtschaft, Verkehrsclub Deutschland, German Environment Agency

#### 4. Further information

Federal Environment Agency

[www.umweltbundesamt.de/indicator-environmentally-friendly-consumption](http://www.umweltbundesamt.de/indicator-environmentally-friendly-consumption)

## 12 Responsible consumption and production

Responsible consumption – *Making consumption environmentally and socially compatible*

### 12.1.b Energy consumption and CO<sub>2</sub> emissions from consumption

#### 1. Definition

The indicator shows the development of direct and indirect energy consumption by households and thus illustrates the strain placed on energy by the consumption activities of households.

#### 2. Data on the time series of the indicator

| Specification                          | 2005       | 2006 | 2007 | 2008 | 2009  | 2010  | 2011  | 2012  | 2013  | 2014 | 2015 <sup>1</sup> |
|--|------------|------|------|------|-------|-------|-------|-------|-------|------|-------------------|
|  | 2005 = 100 |      |      |      |       |       |       |       |       |      |                   |
| Energy consumption .....               | 100        | 98.0 | 93.3 | 96.1 | 97.1  | 101.9 | 97.8  | 96.5  | 98.5  | 92.3 | 94.3              |
| Direct energy consumption .....        | 40.0       | 38.8 | 37.4 | 38.4 | 38.6  | 41.1  | 37.4  | 37.7  | 39.7  | 35.4 | 37.0              |
| Energy content of consumer goods ..... | 60.0       | 59.2 | 55.9 | 57.7 | 58.5  | 60.7  | 60.4  | 58.9  | 58.7  | 56.9 | 57.4              |
| CO <sub>2</sub> emissions .....        | 100        | 98.5 | 96.2 | 99.3 | 100.2 | 105.1 | 102.9 | 102.3 | 103.6 | 97.4 | 99.0              |

#### 3. Supplementary data

| Specification                     | 2005                                  | 2006  | 2007  | 2008  | 2009  | 2010   | 2011  | 2012  | 2013  | 2014  | 2015 <sup>1</sup> |
|-----------------------------------|---------------------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------------------|
|                                   | Petajoules                            |       |       |       |       |        |       |       |       |       |                   |
| Energy consumption .....          | 9,904                                 | 9,707 | 9,235 | 9,520 | 9,615 | 10,088 | 9,682 | 9,560 | 9,750 | 9,138 | 9,340             |
| Housing .....                     | 3,797                                 | 3,728 | 3,536 | 3,615 | 3,599 | 3,920  | 3,473 | 3,453 | 3,657 | 3,176 | 3,324             |
| Mobility .....                    | 2,410                                 | 2,376 | 2,298 | 2,294 | 2,382 | 2,328  | 2,353 | 2,309 | 2,323 | 2,312 | 2,328             |
| Other products .....              | 1,351                                 | 1,299 | 1,242 | 1,308 | 1,223 | 1,420  | 1,468 | 1,449 | 1,449 | 1,361 | 1,371             |
| Other services .....              | 1,205                                 | 1,222 | 1,150 | 1,264 | 1,300 | 1,297  | 1,228 | 1,178 | 1,188 | 1,147 | 1,156             |
| Food .....                        | 1,140                                 | 1,082 | 1,010 | 1,039 | 1,111 | 1,122  | 1,160 | 1,171 | 1,134 | 1,142 | 1,160             |
| Direct energy consumption .....   | 3,958                                 | 3,847 | 3,703 | 3,801 | 3,826 | 4,074  | 3,700 | 3,731 | 3,933 | 3,505 | 3,660             |
| Fuels 2 .....                     | 2,544                                 | 2,471 | 2,331 | 2,454 | 2,448 | 2,694  | 2,303 | 2,354 | 2,546 | 2,130 | 2,290             |
| Motor fuels .....                 | 1,414                                 | 1,376 | 1,372 | 1,347 | 1,378 | 1,380  | 1,396 | 1,377 | 1,387 | 1,375 | 1,370             |
| Indirect energy consumption ..... | 5,946                                 | 5,860 | 5,532 | 5,718 | 5,789 | 6,014  | 5,983 | 5,829 | 5,817 | 5,633 | 5,680             |
|                                   | Proportion of total, percentage share |       |       |       |       |        |       |       |       |       |                   |
| Direct energy consumption .....   | 40.0                                  | 39.6  | 40.1  | 39.9  | 39.8  | 40.4   | 38.2  | 39.0  | 40.3  | 38.4  | 39.2              |
| Fuels 2 .....                     | 64.3                                  | 64.2  | 62.9  | 64.6  | 64.0  | 66.1   | 62.3  | 63.1  | 64.7  | 60.8  | 62.6              |
| Motor fuels .....                 | 35.7                                  | 35.8  | 37.1  | 35.4  | 36.0  | 33.9   | 37.7  | 36.9  | 35.3  | 39.2  | 37.4              |
| Indirect energy consumption ..... | 60.0                                  | 60.4  | 59.9  | 60.1  | 60.2  | 59.6   | 61.8  | 61.0  | 59.7  | 61.6  | 60.8              |

<sup>1</sup> Provisional data.

<sup>2</sup> Including electricity and district heating.

| Specification                       | 2005                                  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015 <sup>1</sup> |
|-------------------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|                                     | Million tonnes                        |       |       |       |       |       |       |       |       |       |                   |
| CO2 emissions .....                 | 643.7                                 | 634.3 | 619.2 | 639.1 | 644.8 | 676.8 | 662.5 | 658.3 | 667.0 | 627.0 | 637.6             |
| Direct CO2 emissions 3 .....        | 230.7                                 | 223.4 | 213.5 | 224.7 | 221.4 | 235.0 | 216.5 | 218.2 | 227.2 | 204.9 | 212.6             |
| CO2 content of consumer goods ..... | 413.0                                 | 410.9 | 405.7 | 414.3 | 423.4 | 441.8 | 446.0 | 440.1 | 439.9 | 422.1 | 425.0             |
|                                     | Proportion of total, percentage share |       |       |       |       |       |       |       |       |       |                   |
| Direct CO2 emissions 3 .....        | 35.8                                  | 35.2  | 34.5  | 35.2  | 34.3  | 34.7  | 32.7  | 33.2  | 34.1  | 32.7  | 33.3              |
| CO2 content of consumer goods ..... | 64.2                                  | 64.8  | 65.5  | 64.8  | 65.7  | 65.3  | 67.3  | 66.8  | 65.9  | 67.3  | 66.7              |

<sup>3</sup> Emissions resulting from the combustion of fuels.

Source: Federal Statistical Office: Environmental-Economic Accounting

#### 4. Further information

Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 1 und Teil 2 (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft

## 12 Responsible consumption and production

Responsible production – *Increasing the proportion of sustainable production continuously*

### 12.2 EMAS eco-management

#### 1. Definition

The indicator shows the number of locations of organisations registered in Germany for EMAS (Eco-Management and Audit Scheme).

#### 2. Data on the time series of the indicator

| Specification                                     | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | Number  |         |         |         |         |         |         |         |         |         |         |         |         |
| Location of EMAS registered organisations 1 ..... | 1,958   | 1,985   | 1,956   | 1,917   | 1,906   | 1,913   | 1,903   | 1,822   | 1,856   | 1,900   | 1,998   | 2,067   | 2 176   |
| Employees .....                                   | 961,255 | 926,296 | 860,491 | 840,006 | 802,825 | 780,757 | 764,736 | 772,774 | 772,883 | 785,432 | 800,635 | 842,301 | 985,195 |

#### 3. Supplementary data

| Specification                      | 2005                    | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|------------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                    | Number of organisations |       |       |       |       |       |       |       |       |       |       |       |       |
| Germany (Deutschland) .....        | 1,491                   | 1,490 | 1,466 | 1,408 | 1,354 | 1,332 | 1,269 | 1,212 | 1,228 | 1,223 | 1,216 | 1,225 | 1,240 |
| Baden-Württemberg.....             | 313                     | 358   | 353   | 363   | 366   | 403   | 408   | 410   | 420   | 415   | 422   | 408   | 396   |
| Bavaria.....                       | 320                     | 302   | 298   | 287   | 282   | 275   | 250   | 247   | 244   | 257   | 269   | 274   | 288   |
| Berlin.....                        | 56                      | 55    | 57    | 51    | 43    | 39    | 39    | 34    | 41    | 35    | 26    | 30    | 32    |
| Brandenburg.....                   | 42                      | 38    | 34    | 33    | 34    | 38    | 30    | 26    | 30    | 29    | 27    | 30    | 36    |
| Bremen.....                        | 20                      | 20    | 19    | 24    | 24    | 21    | 20    | 17    | 16    | 14    | 12    | 11    | 12    |
| Hamburg.....                       | 20                      | 20    | 21    | 14    | 13    | 12    | 12    | 10    | 9     | 11    | 11    | 10    | 12    |
| Hesse.....                         | 103                     | 102   | 98    | 69    | 67    | 73    | 74    | 72    | 70    | 73    | 76    | 80    | 78    |
| Mecklenburg-Western Pomerania..... | 24                      | 25    | 24    | 23    | 16    | 8     | 8     | 6     | 6     | 6     | 5     | 6     | 5     |
| Lower Saxony.....                  | 56                      | 58    | 61    | 61    | 67    | 72    | 76    | 62    | 64    | 60    | 56    | 55    | 59    |
| North-Rhine/Westphalia.....        | 164                     | 156   | 168   | 164   | 157   | 140   | 131   | 121   | 118   | 113   | 114   | 117   | 115   |
| Rhineland-Palatinate.....          | 53                      | 49    | 49    | 44    | 46    | 44    | 37    | 35    | 36    | 37    | 31    | 33    | 33    |
| Saarland.....                      | 49                      | 47    | 50    | 52    | 51    | 49    | 44    | 43    | 44    | 51    | 50    | 51    | 53    |
| Saxony.....                        | 53                      | 47    | 46    | 42    | 40    | 36    | 35    | 35    | 33    | 33    | 32    | 32    | 33    |
| Saxony-Anhalt.....                 | 34                      | 34    | 37    | 38    | 35    | 35    | 28    | 28    | 28    | 24    | 21    | 21    | 22    |
| Schleswig-Holstein.....            | 72                      | 72    | 66    | 59    | 50    | 36    | 34    | 26    | 26    | 22    | 17    | 18    | 18    |
| Thuringia.....                     | 112                     | 107   | 85    | 84    | 63    | 51    | 43    | 40    | 43    | 43    | 47    | 49    | 48    |

1 Data from 2012 revised by DIHK. This also applies to the number of employees in 2013, 2016 and 2017.

| Specification                      | 2010                                 | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|------------------------------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                                    | Number of locations of organisations |       |       |       |       |       |       |       |
| Germany (Deutschland) .....        | 1,913                                | 1,903 | 1,822 | 1,856 | 1,900 | 1,998 | 2,067 | 2,176 |
| Baden-Württemberg.....             | 493                                  | 498   | 508   | 522   | 538   | 578   | 582   | 574   |
| Bavaria.....                       | 385                                  | 391   | 388   | 391   | 421   | 466   | 475   | 524   |
| Berlin.....                        | 53                                   | 53    | 48    | 56    | 50    | 52    | 57    | 61    |
| Brandenburg.....                   | 52                                   | 47    | 36    | 40    | 39    | 39    | 47    | 60    |
| Bremen.....                        | 26                                   | 26    | 28    | 29    | 28    | 30    | 29    | 30    |
| Hamburg.....                       | 37                                   | 36    | 33    | 34    | 38    | 37    | 37    | 51    |
| Hesse.....                         | 138                                  | 139   | 140   | 132   | 134   | 144   | 159   | 159   |
| Mecklenburg-Western Pomerania..... | 10                                   | 10    | 10    | 10    | 10    | 7     | 8     | 8     |
| Lower Saxony.....                  | 91                                   | 95    | 82    | 82    | 84    | 85    | 80    | 93    |
| North-Rhine/Westphalia.....        | 262                                  | 263   | 232   | 231   | 222   | 229   | 236   | 232   |
| Rhineland-Palatinate.....          | 53                                   | 48    | 49    | 53    | 51    | 45    | 51    | 53    |
| Saarland.....                      | 60                                   | 55    | 55    | 57    | 63    | 61    | 62    | 64    |
| Saxony.....                        | 63                                   | 62    | 66    | 63    | 65    | 64    | 74    | 89    |
| Saxony-Anhalt.....                 | 53                                   | 50    | 40    | 41    | 39    | 39    | 44    | 44    |
| Schleswig-Holstein.....            | 59                                   | 59    | 45    | 43    | 41    | 32    | 33    | 45    |
| Thuringia.....                     | 78                                   | 71    | 62    | 72    | 77    | 90    | 93    | 89    |

| Specification  | 2010  | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|---|------|------|------|------|------|------|------|
|  | Proportion of locations of organisations, percent |      |      |      |      |      |      |      |
| Industries <sup>2</sup>  |   |      |      |      |      |      |      |      |
| Manufacturing (C) .....  | 39.5  | 39.4 | 39.4 | .    | 38.8 | 38.0 | 37.7 | 37.6 |
| Other service activities (S) .....   | 13.9  | 13.8 | 12.5 | .    | 11.8 | 11.5 | 11.0 | 9.8  |
| Accommodation and food service activities (I) .....                                | 5.0   | 4.9  | 6.8  | .    | 9.0  | 10.2 | 10.1 | 9.5  |
| Education (P) .....  | 9.6   | 9.6  | 8.9  | .    | 8.9  | 8.7  | 8.1  | 7.6  |
| Water supply; wastewater and waste management and remediation activities (E) ..... | 6.3   | 6.2  | 6.4  | .    | 6.3  | 6.4  | 6.4  | 6.4  |

<sup>2</sup> The code in brackets corresponds to the Classification of Economic Activities, 2008 edition (WZ 2008).

Source: Association of German Chambers of Commerce and Industry in association with the Office of the German EMAS Advisory Board

#### 4. Further information

The German EMAS Advisory Board (Umweltgutachterausschuss)

[www.emas.de/english-summary](http://www.emas.de/english-summary)

## 12 Responsible consumption and production

Responsible procurement – *Giving shape to the public sector's exemplary role in sustainable procurement*

### 12.3 Responsible procurement

12.3.a: Recycled paper bearing the Blue Angel label as a proportion of the total paper consumption of the direct federal administration

12.3.b: CO<sub>2</sub> emissions per mileage of motor vehicles of the public sector

#### 1. Definition

This indicator shows sustainability in procurement using the two subsectors of CO<sub>2</sub> emissions from motor vehicles and paper as examples.

The indicator "CO<sub>2</sub> emissions per mileage of motor vehicles of the public sector" relates the CO<sub>2</sub> emissions to the relevant mileages.

The indicator "Recycled paper bearing the Blue Angel label as a proportion of the total paper consumption of the direct federal administration" shows the volume of paper with the Blue Angel eco-label as a proportion of the total paper consumed by the direct federal administration.

#### 2. Data on the time series of the indicator

| Specification   | 2015       | 2016  | 2017  |
|---|------------|-------|-------|
|   | 2015 = 100 |       |       |
| Recycled paper bearing the Blue Angel label as a proportion of the total paper consumption of the direct federal administration 1 ..... | 100        | 136.8 | 147.7 |
| CO <sub>2</sub> emissions per mileage of motor vehicles of the public sector 2 .....  | 100        | 98.2  | ...   |

1 The direct federal administration comprises the federal government's own central and subordinate authorities, which are legally dependent.

The Blue Angel is an eco-label for environmentally friendly products and services. With regard to paper, this label means that 100% of the paper fibres are recycled and that so harmful chemicals or optical brighteners are used in the production process.

2 Motor vehicles of the public sector include all passenger cars and light commercial vehicles up to a weight of 3.5 tonnes. The public sector comprises the federal level, the Länder, municipalities and associations of municipalities, the police, the Federal Border Guard, fire protection and fire brigades.

#### 3. Supplementary data

| Specification   | 2015                  | 2016      | 2017      |
|---|-----------------------|-----------|-----------|
|   | 1,000 sheets of paper |           |           |
| Paper consumption .....   | 1,149,913             | 1,281,745 | 1,245,725 |
| Recycled paper bearing the Blue Angel label .....   | 518,224               | 790,216   | 829,390   |
|   | Percentage share      |           |           |
| Recycled paper bearing the Blue Angel label as a proportion of the total paper consumption of the direct federal administration 1 ..... | 45.1                  | 61.7      | 66.6      |

| Specification                           | 2015                           | 2016      | 2017 |
|---|--------------------------------|-----------|------|
|   | Tonnes                         |           |      |
| CO2 emissions .....                     | 717,812                        | 702,393   | ...  |
| Passenger cars .....                    | 493,983                        | 480,526   | ...  |
| Light commercial vehicles .....         | 143,401                        | 140,081   | ...  |
| Motorcycles .....                       | 1,255                          | 1,187     | ...  |
| Other light commercial vehicles 3 ..... | 79,173                         | 80,599    | ...  |
|   | 1,000 kilometres               |           |      |
| Mileage .....                           | 3,900,983                      | 3,888,609 | ...  |
| Passenger cars .....                    | 2,857,191                      | 2,838,994 | ...  |
| Light commercial vehicles .....         | 683,365                        | 676,200   | ...  |
| Motorcycles .....                       | 11,697                         | 10,843    | ...  |
| Other light commercial vehicles 3 ..... | 348,729                        | 362,572   | ...  |
|   | kilograms per 1,000 kilometres |           |      |
| CO2 emissions per mileage .....         | 184.0                          | 180.6     | ...  |

3 Other light motor vehicles include: Fire-fighting vehicles and vehicles for similar purposes, patient elevators (license-free), police vehicles, postal, radio and telecommunications vehicles, civil protection vehicles, other vehicles, if not specified, unknown vehicle class or construction type.

Sources: Federal Statistical Office  
German Institute for Energy and Environmental Research  
German Environment Agency  
Competence Center for Sustainable Procurement

### 13 Climate action

#### Climate protection – Reducing greenhouse gases

#### 13.1.a Greenhouse gas emissions

##### 1. Definition

The indicator shows emissions of the following greenhouse gases (substances or substance groups) in CO<sub>2</sub> equivalents: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), laughing gas (N<sub>2</sub>O), nitrogen trifluoride (NF<sub>3</sub>), hydrofluorocarbons (HFC), perfluorocarbons (PFC) as well as sulphur hexafluoride (SF<sub>6</sub>).

##### 2. Data on the time series of the indicator

| Specification                   | 1990              | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 <sup>1</sup> |
|---------------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|
| Greenhouse gas emissions 2..... | 1990 = 100<br>100 | 83.5 | 79.3 | 79.9 | 77.8 | 77.9 | 72.6 | 75.3 | 73.5 | 73.9 | 75.3 | 72.1 | 72.4 | 72.7 | 72.3              |

##### 3. Supplementary data

| Specification   | 1990                                       | 2000    | 2005  | 2006    | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 <sup>1</sup> |
|---|--|---------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|   | Million tonnes CO <sub>2</sub> equivalents |         |       |         |       |       |       |       |       |       |       |       |       |       |                   |
| Greenhouse gas emissions 2.....   | 1,251.7                                    | 1,045.0 | 993.1 | 1,000.3 | 973.4 | 975.3 | 908.2 | 942.8 | 920.3 | 924.6 | 942.0 | 902.7 | 906.8 | 909.4 | 904.7             |
| CO <sub>2</sub> .....   | 1,053.0                                    | 901.0   | 867.2 | 878.7   | 852.1 | 854.4 | 790.0 | 833.7 | 810.8 | 815.2 | 832.6 | 793.6 | 797.1 | 801.8 | 797.3             |
| Other (CH <sub>4</sub> ,N <sub>2</sub> O,H-FKW, SF <sub>6</sub> , NF <sub>3</sub> ) ..... | 198.7                                      | 144.0   | 125.9 | 121.6   | 121.3 | 120.9 | 118.2 | 109.1 | 109.5 | 109.4 | 109.4 | 109.0 | 109.7 | 107.7 | 92.2              |
| including:  |  |         |       |         |       |       |       |       |       |       |       |       |       |       |                   |
| CH <sub>4</sub> .....   | 120.2                                      | 87.7    | 68.4  | 64.5    | 62.2  | 61.2  | 59.0  | 58.1  | 57.0  | 57.6  | 57.0  | 55.8  | 55.6  | 54.4  | 54.1              |
| N <sub>2</sub> O .....  | 65.0                                       | 43.1    | 43.3  | 43.0    | 44.9  | 45.4  | 44.6  | 36.6  | 37.9  | 37.1  | 37.6  | 38.3  | 38.8  | 37.9  | 38.1              |
| HFCs .....  | 5.9  | 8.2     | 10.0  | 10.2    | 10.4  | 10.6  | 11.2  | 10.8  | 11.0  | 11.2  | 11.1  | 11.2  | 11.4  | 11.1  | ...               |
| PFCs .....  | 3.1  | 1.0     | 0.8   | 0.7     | 0.6   | 0.6   | 0.4   | 0.3   | 0.3   | 0.2   | 0.3   | 0.2   | 0.2   | 0.3   | ...               |
| SF <sub>6</sub> .....   | 4.4  | 4.1     | 3.3   | 3.2     | 3.3   | 3.1   | 3.0   | 3.2   | 3.3   | 3.2   | 3.4   | 3.5   | 3.7   | 3.9   | ...               |
| NF <sub>3</sub> .....   | 0.0  | 0.0     | 0.0   | 0.0     | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | ...               |
|   | Percentage share                           |         |       |         |       |       |       |       |       |       |       |       |       |       |                   |
| CO <sub>2</sub> .....   | 84.1                                       | 86.2    | 87.3  | 87.8    | 87.5  | 87.6  | 87.0  | 88.4  | 88.1  | 88.2  | 88.4  | 87.9  | 87.9  | 88.2  | 88.1              |
| CH <sub>4</sub> .....   | 9.6  | 8.4     | 6.9   | 6.4     | 6.4   | 6.3   | 6.5   | 6.2   | 6.2   | 6.2   | 6.0   | 6.2   | 6.1   | 6.0   | 6.0               |
| N <sub>2</sub> O .....  | 5.2  | 4.1     | 4.4   | 4.3     | 4.6   | 4.7   | 4.9   | 3.9   | 4.1   | 4.0   | 4.0   | 4.2   | 4.3   | 4.2   | 4.2               |
| HFCs .....  | 0.5  | 0.8     | 1.0   | 1.0     | 1.1   | 1.1   | 1.2   | 1.1   | 1.2   | 1.2   | 1.2   | 1.2   | 1.3   | 1.2   | ...               |
| SF <sub>6</sub> .....   | 0.4  | 0.4     | 0.3   | 0.3     | 0.3   | 0.3   | 0.3   | 0.3   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | ...               |

<sup>1</sup> Near real-time forecast.

<sup>2</sup> Excluding emissions from land use, land use changes and forestry (LULUCF); excluding emissions from the energetic use of biomass.

Calculation according to the territorial concept (emissions within the territory of Germany, i.e. including foreign enterprises located in Germany and excluding emissions of German enterprises located abroad).



| Specification                    | 1990       | 2000  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 <sup>1</sup> |
|----------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|                                  | 1990 = 100 |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |
| Greenhouse gas emissions 2.....  | 100        | 83.5  | 79.3  | 79.9  | 77.8  | 77.9  | 72.6  | 75.3  | 73.5  | 73.9  | 75.3  | 72.1  | 72.4  | 72.7  | 72.3              |
| CO2 .....                        | 100        | 85.6  | 82.4  | 83.5  | 80.9  | 81.1  | 75.0  | 79.2  | 77.0  | 77.4  | 79.1  | 75.4  | 75.7  | 76.1  | 75.7              |
| Other (CH4,N2O,H-FKW, SF6) ..... | 100        | 72.5  | 63.4  | 61.2  | 61.1  | 60.8  | 59.5  | 54.9  | 55.1  | 55.1  | 55.0  | 54.9  | 55.2  | 54.2  | 46.4              |
| including:                       |            |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |
| CH4 .....                        | 100        | 72.9  | 56.9  | 53.6  | 51.7  | 50.9  | 49.1  | 48.4  | 47.4  | 47.9  | 47.4  | 46.4  | 46.2  | 45.3  | 45.0              |
| N2O .....                        | 100        | 66.2  | 66.6  | 66.1  | 69.0  | 69.8  | 68.5  | 56.3  | 58.3  | 57.0  | 57.9  | 58.8  | 59.7  | 58.3  | 58.6              |
| HFCs .....                       | 100        | 139.2 | 169.8 | 172.6 | 176.4 | 179.2 | 190.2 | 182.6 | 186.0 | 189.6 | 189.0 | 190.4 | 192.7 | 189.2 | ...               |
| PFCs .....                       | 100        | 31.3  | 27.4  | 21.9  | 19.3  | 18.5  | 13.3  | 11.3  | 9.1   | 7.9   | 8.4   | 7.7   | 8.0   | 8.5   | ...               |
| SF6 .....                        | 100        | 92.0  | 75.0  | 73.2  | 73.8  | 69.1  | 68.1  | 72.1  | 73.5  | 73.3  | 75.7  | 78.7  | 82.5  | 87.6  | ...               |
| NF3 .....                        | 100        | 129.6 | 501.3 | 404.7 | 174.8 | 430.2 | 422.7 | 892.9 | 889.6 | 511.7 | 233.0 | 294.8 | 172.8 | 162.0 | ...               |

1 Near real-time forecast.

2 Excluding emissions from land use, land use changes and forestry (LULUCF); excluding emissions from the energetic use of biomass.

Calculation according to the territorial concept (emissions within the territory of Germany, i.e. including foreign enterprises located in Germany and excluding emissions of German enterprises located abroad).

Sources: Umweltbundesamt (German Environment Agency) 2018; Nationale Trendtabellen für die deutsche Berichterstattung atmosphärischer Emissionen, Stand: EU-Submission 15.01.2018 (only available in German)

#### 4. Further information

United Nations Framework Convention on Climate Change (UNFCCC)

European Environment Agency: Annual European Union Greenhouse Gas inventory 1990-2012 and inventory report 2014. Submission to the UNFCCC Secretariat, April 2014

European Environment Agency

[cdr.eionet.europa.eu/ghg\\_inventory](http://cdr.eionet.europa.eu/ghg_inventory)

Umweltnutzung und Wirtschaft, Tabellen zu den Umweltökonomischen Gesamtrechnungen, Teil 3 (only available in German)

[www.destatis.de/Umwelt/Materialfluesse-Energiefluesse](http://www.destatis.de/Umwelt/Materialfluesse-Energiefluesse)

→ Publikationen: Umweltnutzung und Wirtschaft

## 13 Climate action

Climate protection – Germany's contribution to international climate finance

### 13.1.b International climate finance for the reduction of greenhouse gases and adaption to climate change

#### 1. Definition

The indicator shows the financing of measures to reduce greenhouse gases (for instance through the conservation and reforestation of forests (REDD+)), to adapt to climate change and to protect biodiversity. Funding goes primarily to developing and emerging countries and is made from German budget funds, including grant elements of development loans which include budget funds.

#### 2. Data on the time series of the indicator

| Specification  | 2011              | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|-------------------|------|------|------|------|------|------|
|  | Billions of euros |      |      |      |      |      |      |
| Germany's climate finance flows primarily to developing and emerging countries ..... | 1.56              | 1.66 | 1.95 | 2.34 | 2.68 | 3.36 | 3.65 |
| Target value .....   | -                 | -    | -    | 2.00 | 2.10 | 2.40 | 3.10 |

Source: Federal Ministry for Economic Cooperation and Development

#### 3. Supplementary data

| Specification   | 2015              | 2016 | 2017  |
|---|-------------------|------|-------|
|   | Billions of euros |      |       |
| From budget funds .....   | 2.68              | 3.36 | 3.65  |
| Reduction of greenhouse gases .....   | .                 | .    | 1.56  |
| Adaption to climate change .....  | .                 | .    | 0.92  |
| Cross-sectoral projects .....   | .                 | .    | 1.17  |
| Development banks on the capital market .....   | 4.72              | 5.20 | 3.08  |
| Privat climate financing .....  | 0.86              | 1.40 | 0.50  |
| Total .....   | 8.26              | 9.96 | 7.23  |
|   | Millions of euros |      |       |
| Multilateral channels .....   | .                 | .    | 481   |
| Proportionately attributed climate finance derived from contributions to multilateral funds ..... | .                 | .    | 187   |
| Bilateral climate finance by regions:   |                   |      |       |
| Africa .....  | 887               | 871  | 1 102 |
| Asia, Middle East, Southeast Europe .....   | 626               | 827  | 1 002 |
| Latin America, Caribbean .....  | 281               | 286  | 469   |
| Globally supraregional projects .....   | 135               | 325  | 596   |

| Specification  | 2015  | 2016 | 2017 |
|--|---|------|------|
|  | Million tonnes of CO <sub>2</sub> equivalents |      |      |
| Direct savings using financial cooperation funds ..... | .   | .    | 8.7  |

**4. Further information**

Federal Ministry for Economic Cooperation and Development

[www.bmz.de/en/issues/klimaschutz](http://www.bmz.de/en/issues/klimaschutz)

## 14 Life below water

Protecting the oceans - *Protecting and sustainably using oceans and marine resources*

### 14.1.a Nitrogen input to the North and the Baltic Sea through German inflows

#### 1. Definition

The indicators show the moving discharge-weighted five-year average of nitrogen concentration in milligrams (mg) of nitrogen per litre (l) of water discharge from rivers into the North and the Baltic Sea.<sup>1</sup>

#### 2. Data on the time series of the indicator

| Specification  | 2000   | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|
|  | Concentration, milligrams per litre (moving discharge-weighted average of the previous five years) |      |      |      |      |      |      |      |      |      |      |      |      |
| Total nitrogen concentration in the Baltic Sea ..... | 3.8  | 3.6  | 3.5  | 3.5  | 3.7  | 3.6  | 3.8  | 3.8  | 3.4  | 3.4  | 3.4  | 3.1  | 3.0  |
| Total nitrogen concentration in the North Sea .....  | 4.0  | 3.6  | 3.6  | 3.5  | 3.5  | 3.4  | 3.4  | 3.3  | 3.2  | 3.2  | 3.1  | 3.0  | 2.9  |

<sup>1</sup> For the North Sea these are the rivers Eider, Elbe, Ems, Weser, Rhein, die Treene, Aarlau, Bongsleier Kanal and Miele. For the Baltic Sea these are the rivers Peene, Trave, Warnow, Langballigau, Füsinger Au, Koseler Au, Schwentine, Kossau, Goddesdorfer Au, Oldenburger Graben, Aalbeck, Schwartau, Lippingau, Hagener Au, Barthe, Duvenbaek, Hellbach, Maurine, Recknitz, Ryck, Stepenitz, Uecker, Wallensteingraben and Zarnow.

#### 3. Supplementary data

| Specification  | 2000   | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    |
|--|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|  | Calculated concentration, milligrams per litre |         |         |         |         |         |         |         |         |         |         |         |         |
| Total nitrogen concentration in the Baltic Sea ..... | 3.6  | 3.5     | 3.6     | 4.5     | 3.5     | 2.9     | 4.3     | 3.7     | 2.8     | 3.3     | 2.6     | 3.3     | 2.7     |
| Total nitrogen concentration in the North Sea .....  | 3.6  | 3.4     | 3.6     | 3.4     | 3.3     | 3.2     | 3.5     | 3.2     | 2.8     | 3.2     | 2.8     | 2.9     | 2.9     |
|  | Nitrogen load, tonnes per year                 |         |         |         |         |         |         |         |         |         |         |         |         |
| Total nitrogen concentration in the Baltic Sea ..... | 8,590  | 7,796   | 8,953   | 14,868  | 9,776   | 5,148   | 12,803  | 14,799  | 7,389   | 9,327   | 5,105   | 8,266   | 5,492   |
| Total nitrogen concentration in the North Sea .....  | 410,311  | 330,853 | 379,238 | 417,548 | 361,037 | 310,179 | 420,867 | 314,423 | 289,639 | 410,095 | 252,943 | 264,595 | 297,647 |
|  | Discharge, million cubic metre per year        |         |         |         |         |         |         |         |         |         |         |         |         |
| Total nitrogen concentration in the Baltic Sea ..... | 2,404  | 2,197   | 2,519   | 3,306   | 2,792   | 1,769   | 2,973   | 3,991   | 2,627   | 2,814   | 1,950   | 2,524   | 1,998   |
| Total nitrogen concentration in the North Sea .....  | 114,352  | 96,373  | 104,449 | 122,527 | 109,168 | 97,517  | 121,664 | 98,590  | 105,090 | 126,348 | 89,271  | 90,613  | 102,542 |

Source: German Environment Agency using information from the Länder and river basin communities

#### 4. Further information

| Specification <sup>2</sup>              | 2000   | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   | Concentration, milligrams per litre (moving discharge-weighted average of the previous five years) |         |         |         |         |         |         |         |         |         |         |         |         |
| North Sea .....                         | 4.0  | 3.6     | 3.6     | 3.5     | 3.5     | 3.4     | 3.4     | 3.3     | 3.2     | 3.2     | 3.1     | 3.0     | 2.9     |
| Elbe (Seemannshöf) .....                | 5.1  | 3.9     | 3.7     | 3.5     | 3.4     | 3.3     | 3.4     | 3.5     | 3.4     | 3.5     | 3.5     | 3.2     | 3.1     |
| Ems (Herbrum) .....                     | 5.9  | 5.8     | 5.1     | 5.2     | 5.3     | 4.9     | 5.0     | 4.9     | 4.6     | 4.5     | 4.8     | 4.7     | 4.7     |
| Weser (Hemelingen) .....                | 4.5  | 4.5     | 4.5     | 4.4     | 4.4     | 4.3     | 4.4     | 4.2     | 3.9     | 3.9     | 3.9     | 3.8     | 3.8     |
| Eider (Friedrichstadt + Nordfeld) ..... | 3.6  | 3.7     | 3.6     | 3.7     | 3.8     | 3.7     | 3.8     | 3.7     | 3.5     | 3.3     | 3.3     | 3.2     | 3.1     |
| Treene (Friedrichstadt + Treia) .....   | 4.2  | 4.1     | 4.1     | 4.1     | 4.2     | 4.0     | 3.9     | 3.7     | 3.5     | 3.3     | 3.2     | 3.2     | 3.1     |
| Arlau (Arlau BP) .....                  | 4.5  | 4.6     | 4.4     | 4.5     | 4.6     | 4.4     | 4.5     | 4.5     | 4.3     | 4.0     | 3.9     | 3.7     | 3.6     |
| Bongsieler Kanal (Schlüttsiel BP) ..... | 3.4  | 3.4     | 3.3     | 3.3     | 3.4     | 3.2     | 3.2     | 3.1     | 2.9     | 2.9     | 3.0     | 2.9     | 2.9     |
| Miele (Meldorf) .....                   | 4.0  | 4.3     | 4.3     | 4.2     | 4.2     | 4.2     | 4.3     | 4.2     | 4.0     | 3.9     | 3.9     | 3.7     | 3.6     |
| Rhein (Bimmen) .....                    | 3.6  | 3.2     | 3.3     | 3.3     | 3.2     | 3.2     | 3.2     | 3.0     | 2.9     | 2.9     | 2.8     | 2.7     | 2.7     |
|   | Calculated concentration, milligrams per litre   |         |         |         |         |         |         |         |         |         |         |         |         |
| North Sea .....                         | 3.6  | 3.4     | 3.6     | 3.4     | 3.3     | 3.2     | 3.5     | 3.2     | 2.8     | 3.2     | 2.8     | 2.9     | 2.9     |
| Elbe (Seemannshöf) .....                | 4.6  | 3.5     | 3.3     | 3.3     | 3.3     | 3.3     | 3.9     | 3.7     | 2.8     | 3.8     | 3.1     | 2.8     | 3.1     |
| Ems (Herbrum) .....                     | 5.1  | 5.1     | 4.9     | 6.1     | 5.1     | 3.1     | 5.6     | 4.6     | 4.4     | 4.7     | 4.8     | 5.0     | 4.5     |
| Weser (Hemelingen) .....                | 3.8  | 4.1     | 4.3     | 4.9     | 4.4     | 4.0     | 4.3     | 3.6     | 3.5     | 4.3     | 3.7     | 3.9     | 3.7     |
| Eider (Friedrichstadt + Nordfeld) ..... | 2.8  | 3.2     | 3.7     | 4.5     | 3.8     | 3.3     | 3.7     | 3.3     | 3.2     | 3.0     | 3.1     | 3.4     | 3.0     |
| Treene (Friedrichstadt + Treia) .....   | 3.8  | 3.8     | 4.4     | 4.3     | 4.0     | 3.4     | 3.4     | 3.4     | 3.1     | 3.0     | 3.0     | 3.3     | 2.9     |
| Arlau (Arlau BP) .....                  | 4.2  | 4.0     | 4.0     | 5.2     | 4.8     | 4.2     | 4.5     | 4.1     | 3.9     | 3.5     | 3.6     | 3.4     | 3.5     |
| Bongsieler Kanal (Schlüttsiel BP) ..... | 3.9  | 3.1     | 3.2     | 3.7     | 3.2     | 2.9     | 2.9     | 2.9     | 2.7     | 3.3     | 3.0     | 2.8     | 2.5     |
| Miele (Meldorf) .....                   | 4.2  | 4.1     | 4.2     | 4.5     | 4.0     | 4.2     | 4.4     | 3.7     | 3.6     | 3.8     | 3.8     | 3.5     | 3.4     |
| Rhein (Bimmen) .....                    | 3.2  | 3.3     | 3.6     | 3.0     | 3.1     | 3.0     | 3.1     | 2.8     | 2.6     | 2.9     | 2.6     | 2.7     | 2.7     |
|   | Nitrogen load, tonnes per year   |         |         |         |         |         |         |         |         |         |         |         |         |
| North Sea .....                         | 410,311  | 330,853 | 379,238 | 417,548 | 361,037 | 310,179 | 420,867 | 314,423 | 289,639 | 410,095 | 252,943 | 264,595 | 297,647 |
| Elbe (Seemannshöf) .....                | 94,432   | 73,925  | 73,570  | 72,578  | 67,079  | 66,223  | 121,244 | 97,235  | 56,381  | 117,820 | 46,442  | 42,631  | 47,853  |
| Ems (Herbrum) .....                     | 14,829   | 12,798  | 10,546  | 22,429  | 14,294  | 6,819   | 16,194  | 10,955  | 10,201  | 9,584   | 10,388  | 14,308  | 12,406  |
| Weser (Hemelingen) .....                | 36,981   | 35,894  | 36,034  | 67,240  | 47,501  | 33,323  | 45,384  | 30,660  | 26,442  | 40,948  | 24,957  | 31,260  | 28,721  |
| Eider (Friedrichstadt + Nordfeld) ..... | 1,865  | 2,297   | 2,898   | 4,629   | 3,214   | 3,606   | 3,233   | 4,290   | 3,207   | 2,648   | 2,690   | 3,949   | 2,703   |
| Treene (Friedrichstadt + Treia) .....   | 1,005  | 1,017   | 1,095   | 1,484   | 1,423   | 932     | 1,197   | 1,414   | 870     | 922     | 999     | 1,463   | 1,013   |
| Arlau (Arlau BP) .....                  | 393  | 339     | 380     | 691     | 655     | 455     | 571     | 646     | 521     | 467     | 496     | 504     | 436     |
| Bongsieler Kanal (Schlüttsiel BP) ..... | 840  | 800     | 764     | 1,486   | 849     | 843     | 956     | 931     | 772     | 1,012   | 1,041   | 955     | 645     |
| Miele (Meldorf) .....                   | 260  | 189     | 202     | 479     | 418     | 318     | 451     | 380     | 348     | 354     | 286     | 412     | 283     |
| Rhein (Bimmen) .....                    | 259,706  | 203,594 | 253,749 | 246,531 | 225,603 | 197,659 | 231,637 | 167,912 | 190,897 | 236,339 | 165,644 | 169,112 | 203,587 |
|   | Discharge, million cubic metre per year  |         |         |         |         |         |         |         |         |         |         |         |         |
| North Sea .....                         | 114,352  | 96,373  | 104,449 | 122,527 | 109,168 | 97,517  | 121,664 | 98,590  | 105,090 | 126,348 | 89,271  | 90,613  | 102,542 |
| Elbe (Seemannshöf) .....                | 20,529   | 21,122  | 22,294  | 21,993  | 20,327  | 20,068  | 31,088  | 26,280  | 20,136  | 31,005  | 14,981  | 15,225  | 15,437  |
| Ems (Herbrum) .....                     | 2,908  | 2,527   | 2,149   | 3,652   | 2,801   | 2,180   | 2,887   | 2,357   | 2,323   | 2,048   | 2,151   | 2,885   | 2,732   |
| Weser (Hemelingen) .....                | 9,650  | 8,854   | 8,341   | 13,835  | 10,870  | 8,372   | 10,554  | 8,446   | 7,627   | 9,635   | 6,673   | 8,016   | 7,805   |
| Eider (Friedrichstadt + Nordfeld) ..... | 671  | 729     | 779     | 1,040   | 852     | 1,099   | 874     | 1,304   | 996     | 888     | 865     | 1,151   | 907     |
| Treene (Friedrichstadt + Treia) .....   | 263  | 268     | 247     | 343     | 353     | 272     | 348     | 418     | 281     | 304     | 334     | 445     | 350     |
| Arlau (Arlau BP) .....                  | 94   | 86      | 95      | 134     | 136     | 109     | 128     | 158     | 135     | 134     | 139     | 150     | 123     |
| Bongsieler Kanal (Schlüttsiel BP) ..... | 216  | 258     | 240     | 404     | 267     | 288     | 326     | 323     | 290     | 309     | 344     | 344     | 257     |
| Miele (Meldorf) .....                   | 62   | 46      | 48      | 106     | 105     | 76      | 102     | 104     | 97      | 93      | 75      | 117     | 83      |
| Rhein (Bimmen) .....                    | 79,959   | 62,484  | 70,256  | 81,020  | 73,458  | 65,052  | 75,356  | 59,200  | 73,205  | 81,931  | 63,709  | 62,279  | 74,848  |

| Specification <sup>2</sup>               | 2000   | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|
|  | Concentration, milligrams per litre (moving discharge-weighted average of the previous five years) |      |      |      |      |      |      |      |      |      |      |      |      |
| Baltic Sea .....                         | 3.8  | 3.6  | 3.5  | 3.5  | 3.7  | 3.6  | 3.8  | 3.8  | 3.4  | 3.4  | 3.4  | 3.1  | 3.0  |
| Rivers in Schleswig-Holstein .....       | 4.7  | 4.2  | 4.2  | 4.2  | 4.3  | 4.3  | 4.4  | 4.2  | 3.9  | 3.9  | 3.8  | 3.5  | 3.4  |
| Langballigau (Langballig) .....          | 5.5  | 6.3  | 6.1  | 6.1  | 6.3  | 5.9  | 5.9  | 5.9  | 5.6  | 5.6  | 5.5  | 5.2  | 4.9  |
| Füsinger Au (Füsing) .....               | 6.0  | 6.0  | 6.1  | 6.1  | 6.3  | 6.2  | 6.2  | 5.8  | 5.4  | 5.2  | 4.9  | 4.6  | 4.4  |
| Koseler Au (Kosel) .....                 | 7.3  | 6.8  | 6.7  | 6.6  | 6.9  | 6.9  | 7.1  | 6.9  | 6.6  | 6.3  | 6.1  | 5.8  | 5.6  |
| Schwentine (Kiel-Oppendorf) .....        | 2.0  | 2.1  | 2.2  | 2.2  | 2.1  | 2.0  | 2.1  | 2.0  | 1.9  | 1.9  | 1.9  | 1.7  | 1.7  |
| Kossau (Kiel-Oppendorf) .....            | 4.1  | 3.9  | 3.8  | 3.8  | 3.8  | 3.8  | 3.9  | 3.8  | 3.5  | 3.3  | 3.1  | 2.9  | 2.7  |
| Goddendorfer Au (Löhrstorf + Stolpe) ... | 5.5  | 5.5  | 5.6  | 5.5  | 5.5  | 5.0  | 5.5  | 5.4  | 4.7  | 5.0  | 5.1  | 5.0  | 4.8  |
| Oldenburger Graben (Dahme) .....         | 6.2  | 6.9  | 7.0  | 7.4  | 7.4  | 6.9  | 7.5  | 6.9  | 5.6  | 6.0  | 5.9  | 5.6  | 5.4  |
| Aalbeck (Lübeck-Moisling) .....          | 3.1  | 2.6  | 2.5  | 2.7  | 2.7  | 2.6  | 2.7  | 2.6  | 2.4  | 2.3  | 2.4  | 2.4  | 2.4  |
| Schwartau (Bad Schwartau) .....          | 5.6  | 5.7  | 5.6  | 5.4  | 5.6  | 5.3  | 5.7  | 5.5  | 5.2  | 5.1  | 5.0  | 4.6  | 4.5  |
| Lippingau (Langballig) .....             | 6.7  | 7.3  | 7.2  | 7.2  | 7.4  | 7.0  | 7.1  | 7.0  | 7.0  | 7.1  | 6.9  | 6.5  | 6.0  |
| Hagener Au (Kiel-Oppendorf) .....        | 2.8  | 3.3  | 3.5  | 3.5  | 3.5  | 3.5  | 3.4  | 3.2  | 3.2  | 3.1  | 2.8  | 2.6  | 2.6  |
| Trave (Lübeck-Moisling) .....            | 5.6  | 4.2  | 4.2  | 4.2  | 4.5  | 4.5  | 4.7  | 4.6  | 4.3  | 4.3  | 4.3  | 3.9  | 3.7  |
| Rivers in Mecklenburg-Vorpommern .....   | 3.5  | 3.3  | 3.2  | 3.2  | 3.4  | 3.3  | 3.5  | 3.6  | 3.2  | 3.2  | 3.2  | 3.0  | 2.8  |
| Peene (Anklam-Hafen) .....               | 3.1  | 3.4  | 3.3  | 3.2  | 3.5  | 3.4  | 3.4  | 3.5  | 3.2  | 3.2  | 3.1  | 3.1  | 2.9  |
| Warnow (Rostock [Kessin]) .....          | 3.2  | 2.6  | 2.6  | 2.7  | 2.8  | 2.7  | 2.8  | 2.8  | 2.5  | 2.5  | 2.4  | 2.3  | 2.2  |
| Barthe (Redebas) .....                   | 4.4  | 5.0  | 5.0  | 5.3  | 5.5  | 5.2  | 5.3  | 5.1  | 4.4  | 4.5  | 4.4  | 4.0  | 3.9  |
| Duvenbaek (Kluis) .....                  | 5.8  | 5.7  | 6.1  | 6.3  | 6.3  | 5.8  | 5.8  | 5.5  | 4.7  | 4.6  | 4.6  | 4.4  | 4.2  |
| Hellbach (Tessmannsdorf) .....           | 7.7  | 6.6  | 6.4  | 6.6  | 6.9  | 6.8  | 7.3  | 7.4  | 6.5  | 6.7  | 6.5  | 6.0  | 5.2  |
| Maurine (Schönberg) .....                | 4.4  | 4.2  | 4.0  | 4.2  | 4.5  | 4.5  | 5.0  | 5.0  | 4.3  | 4.2  | 3.9  | 3.4  | 3.2  |
| Recknitz (Ribnitz) .....                 | 3.2  | 3.0  | 3.0  | 3.0  | 3.1  | 3.0  | 3.3  | 3.3  | 3.1  | 3.1  | 3.1  | 2.8  | 2.6  |
| Ryck (Greifswald) .....                  | 4.5  | 5.5  | 5.6  | 5.5  | 5.5  | 5.2  | 5.5  | 5.6  | 5.1  | 5.1  | 5.2  | 4.6  | 4.3  |
| Stepnitz (Rodenberg) .....               | 4.8  | 4.4  | 4.3  | 4.4  | 4.7  | 4.8  | 5.3  | 5.5  | 5.0  | 5.0  | 4.9  | 4.5  | 4.3  |
| Uecker (Ueckermünde-Hafen) .....         | 2.7  | 2.6  | 2.6  | 2.6  | 2.7  | 2.7  | 2.9  | 3.1  | 3.0  | 2.9  | 2.9  | 2.6  | 2.3  |
| Wallsteingraben (Wismar) .....           | 4.4  | 3.5  | 3.4  | 3.3  | 3.5  | 3.6  | 4.1  | 4.0  | 3.6  | 3.6  | 3.5  | 3.2  | 3.3  |
| Zarnow (Grambin) .....                   | 3.2  | 3.3  | 3.3  | 3.3  | 3.6  | 3.6  | 3.7  | 4.0  | 3.6  | 3.4  | 3.3  | 3.2  | 2.9  |
|  | Calculated concentration, milligrams per litre   |      |      |      |      |      |      |      |      |      |      |      |      |
| Baltic Sea .....                         | 3.6  | 3.5  | 3.6  | 4.5  | 3.5  | 2.9  | 4.3  | 3.7  | 2.8  | 3.3  | 2.6  | 3.3  | 2.7  |
| Rivers in Schleswig-Holstein .....       | 4.1  | 4.1  | 4.6  | 4.9  | 3.9  | 3.8  | 4.9  | 3.7  | 3.3  | 3.7  | 3.4  | 3.4  | 3.0  |
| Langballigau (Langballig) .....          | 5.1  | 6.3  | 5.3  | 6.5  | 5.8  | 5.6  | 6.3  | 5.4  | 4.8  | 5.9  | 5.0  | 4.7  | 4.1  |
| Füsinger Au (Füsing) .....               | 5.4  | 5.6  | 7.2  | 6.4  | 5.7  | 6.0  | 5.9  | 5.0  | 4.3  | 4.7  | 4.6  | 4.7  | 3.7  |
| Koseler Au (Kosel) .....                 | 6.9  | 6.4  | 7.1  | 7.3  | 7.1  | 6.6  | 7.4  | 6.1  | 5.8  | 5.5  | 5.9  | 5.8  | 5.0  |
| Schwentine (Kiel-Oppendorf) .....        | 1.7  | 1.9  | 2.3  | 2.3  | 1.8  | 1.8  | 2.4  | 1.9  | 1.6  | 1.7  | 1.7  | 1.7  | 1.7  |
| Kossau (Kiel-Oppendorf) .....            | 3.8  | 3.6  | 3.8  | 4.3  | 3.7  | 3.7  | 4.1  | 3.4  | 2.5  | 3.0  | 2.6  | 2.8  | 2.4  |
| Goddendorfer Au (Löhrstorf + Stolpe) ... | 5.2  | 4.5  | 6.0  | 7.1  | 4.0  | 3.7  | 6.7  | 5.4  | 3.9  | 5.5  | 4.1  | 6.1  | 4.5  |
| Oldenburger Graben (Dahme) .....         | 6.0  | 6.6  | 7.6  | 10.7 | 4.8  | 4.9  | 9.4  | 4.8  | 4.2  | 6.8  | 4.5  | 7.6  | 4.0  |
| Aalbeck (Lübeck-Moisling) .....          | 2.9  | 2.2  | 2.8  | 3.4  | 2.5  | 2.0  | 2.8  | 2.6  | 2.0  | 2.3  | 2.5  | 2.8  | 2.3  |
| Schwartau (Bad Schwartau) .....          | 5.3  | 4.8  | 5.7  | 5.8  | 5.4  | 4.8  | 6.7  | 4.9  | 4.3  | 4.9  | 4.3  | 4.8  | 4.2  |
| Lippingau (Langballig) .....             | 5.4  | 7.1  | 7.5  | 7.2  | 6.6  | 6.7  | 7.7  | 7.0  | 7.0  | 7.0  | 5.6  | 5.8  | 4.6  |
| Hagener Au (Kiel-Oppendorf) .....        | 2.4  | 3.8  | 3.5  | 3.0  | 3.0  | 4.0  | 3.5  | 2.4  | 3.1  | 2.4  | 2.9  | 2.5  | 2.3  |
| Trave (Lübeck-Moisling) .....            | 4.9  | 4.3  | 4.9  | 5.2  | 4.5  | 3.7  | 5.3  | 4.3  | 3.8  | 4.3  | 3.6  | 3.6  | 3.4  |

| Specification <sup>2</sup>               | 2000   | 2005  | 2006  | 2007   | 2008  | 2009  | 2010   | 2011   | 2012  | 2013  | 2014  | 2015  | 2016  |
|--|--|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
|  | Calculated concentration, milligrams per litre |       |       |        |       |       |        |        |       |       |       |       |       |
| Rivers in Mecklenburg-Vorpommern .....   | 3.3  | 3.3   | 3.2   | 4.3    | 3.3   | 2.5   | 4.0    | 3.7    | 2.6   | 3.2   | 2.3   | 3.2   | 2.6   |
| Peene (Anklam-Hafen) .....               | 2.9  | 3.6   | 3.1   | 4.1    | 3.6   | 2.6   | 3.8    | 3.7    | 2.6   | 3.3   | 2.4   | 3.5   | 2.8   |
| Warnow (Rostock [Kessin]) .....          | 3.5  | 2.6   | 2.8   | 3.6    | 2.5   | 1.9   | 2.9    | 2.9    | 2.0   | 2.6   | 1.7   | 2.4   | 2.1   |
| Barthe (Redebas) .....                   | 3.8  | 5.9   | 5.5   | 6.9    | 4.0   | 3.9   | 6.1    | 4.7    | 3.1   | 4.6   | 3.4   | 4.3   | 3.9   |
| Duvenbaek (Kluis) .....                  | 4.1  | 6.7   | 7.0   | 7.8    | 4.2   | 3.5   | 6.6    | 5.5    | 3.6   | 4.0   | 3.3   | 5.6   | 4.6   |
| Hellbach (Tessmannsdorf) .....           | 8.7  | 5.2   | 7.5   | 9.4    | 6.1   | 5.6   | 8.1    | 7.9    | 4.9   | 6.9   | 4.6   | 5.5   | 3.9   |
| Maurine (Schönberg) .....                | 4.5  | 3.8   | 4.1   | 6.3    | 3.9   | 4.2   | 6.5    | 4.3    | 2.7   | 3.3   | 2.8   | 3.8   | 3.1   |
| Recknitz (Ribnitz) .....                 | 3.3  | 3.1   | 3.2   | 3.8    | 2.9   | 2.2   | 4.4    | 3.3    | 2.5   | 3.1   | 2.1   | 3.0   | 2.2   |
| Ryck (Greifswald) .....                  | 3.9  | 6.0   | 5.0   | 6.0    | 5.4   | 3.6   | 7.3    | 5.5    | 3.7   | 5.4   | 3.9   | 4.7   | 3.8   |
| Stepnitz (Rodenberg) .....               | 4.7  | 4.1   | 4.5   | 6.4    | 4.5   | 4.4   | 6.8    | 5.2    | 4.2   | 4.6   | 3.5   | 4.9   | 4.3   |
| Uecker (Ueckermünde-Hafen) .....         | 2.3  | 2.6   | 2.5   | 3.4    | 3.1   | 2.0   | 3.5    | 3.6    | 2.7   | 2.6   | 1.9   | 2.3   | 1.8   |
| Wallsteingraben (Wismar) .....           | 4.1  | 2.8   | 3.9   | 4.6    | 3.5   | 3.2   | 5.4    | 3.5    | 2.4   | 3.4   | 2.8   | 3.9   | 3.8   |
| Zarnow (Grambin) .....                   | 2.9  | 3.4   | 3.2   | 4.6    | 4.1   | 2.8   | 4.1    | 4.3    | 2.7   | 2.9   | 2.4   | 3.6   | 2.7   |
|  | Nitrogen load, tonnes per year                 |       |       |        |       |       |        |        |       |       |       |       |       |
| Baltic Sea .....                         | 8,590  | 7,796 | 8,953 | 14,868 | 9,776 | 5,148 | 12,803 | 14,799 | 7,389 | 9,327 | 5,105 | 8,266 | 5,492 |
| Rivers in Schleswig-Holstein .....       | 2,945  | 2,494 | 2,982 | 5,391  | 3,554 | 2,036 | 4,553  | 3,341  | 2,674 | 2,976 | 2,077 | 2,900 | 2,036 |
| Langballigau (Langballig) .....          | 68   | 99    | 67    | 167    | 113   | 88    | 114    | 107    | 95    | 119   | 115   | 113   | 69    |
| Füsinger Au (Füsing) .....               | 356  | 423   | 498   | 789    | 586   | 491   | 562    | 490    | 333   | 373   | 374   | 489   | 282   |
| Koseler Au (Kosel) .....                 | 103  | 107   | 112   | 147    | 130   | 78    | 102    | 103    | 80    | 75    | 82    | 104   | 67    |
| Schwentine (Kiel-Oppendorf) .....        | 310  | 270   | 381   | 590    | 554   | 253   | 553    | 518    | 385   | 384   | 256   | 386   | 318   |
| Kossau (Kiel-Oppendorf) .....            | 103  | 75    | 93    | 171    | 111   | 76    | 171    | 138    | 81    | 112   | 63    | 106   | 72    |
| Goddendorfer Au (Löhrstorf + Stolpe) ... | 27   | 24    | 70    | 140    | 50    | 31    | 144    | 67     | 34    | 60    | 20    | 61    | 34    |
| Oldenburger Graben (Dahme) .....         | 60   | 66    | 150   | 459    | 112   | 77    | 391    | 97     | 67    | 139   | 41    | 143   | 60    |
| Aalbeck (Lübeck-Moisling) .....          | 26   | 25    | 32    | 69     | 34    | 16    | 43     | 36     | 22    | 31    | 24    | 37    | 24    |
| Schwartau (Bad Schwartau) .....          | 247  | 183   | 228   | 486    | 369   | 102   | 503    | 338    | 251   | 319   | 206   | 305   | 222   |
| Lippingau (Langballig) .....             | 62   | 106   | 83    | 152    | 112   | 88    | 115    | 125    | 129   | 123   | 112   | 129   | 68    |
| Hagener Au (Kiel-Oppendorf) .....        | 51   | 70    | 71    | 98     | 73    | 68    | 102    | 80     | 90    | 71    | 57    | 77    | 56    |
| Trave (Lübeck-Moisling) .....            | 1,531  | 1,046 | 1,197 | 2,122  | 1,309 | 668   | 1,753  | 1,243  | 1,107 | 1,170 | 728   | 950   | 763   |
| Rivers in Mecklenburg-Vorpommern .....   | 5,645  | 5,302 | 5,971 | 9,478  | 6,221 | 3,112 | 8,250  | 11,457 | 4,715 | 6,350 | 3,028 | 5,366 | 3,455 |
| Peene (Anklam-Hafen) .....               | 1,847  | 1,914 | 2,131 | 2,999  | 2,456 | 1,026 | 2,493  | 4,099  | 1,554 | 2,067 | 1,113 | 2,241 | 1,197 |
| Warnow (Rostock [Kessin]) .....          | 1,428  | 1,184 | 1,471 | 2,422  | 1,347 | 678   | 1,518  | 2,135  | 949   | 1,433 | 584   | 1,053 | 776   |
| Barthe (Redebas) .....                   | 185  | 275   | 211   | 466    | 155   | 115   | 421    | 440    | 97    | 190   | 94    | 202   | 107   |
| Duvenbaek (Kluis) .....                  | 36   | 60    | 52    | 122    | 31    | 10    | 83     | 98     | 29    | 38    | 16    | 52    | 25    |
| Hellbach (Tessmannsdorf) .....           | 295  | 139   | 195   | 505    | 161   | 108   | 366    | 499    | 166   | 294   | 95    | 143   | 89    |
| Maurine (Schönberg) .....                | 111  | 81    | 99    | 206    | 94    | 69    | 219    | 157    | 67    | 88    | 50    | 95    | 65    |
| Recknitz (Ribnitz) .....                 | 292  | 276   | 374   | 388    | 332   | 137   | 388    | 636    | 324   | 623   | 263   | 475   | 264   |
| Ryck (Greifswald) .....                  | 82   | 323   | 151   | 196    | 163   | 100   | 260    | 190    | 78    | 169   | 89    | 123   | 94    |
| Stepnitz (Rodenberg) .....               | 452  | 321   | 398   | 727    | 392   | 260   | 753    | 608    | 375   | 377   | 202   | 371   | 316   |
| Uecker (Ueckermünde-Hafen) .....         | 432  | 434   | 592   | 920    | 748   | 379   | 1,171  | 1,849  | 754   | 744   | 318   | 389   | 195   |
| Wallsteingraben (Wismar) .....           | 318  | 129   | 104   | 214    | 93    | 92    | 220    | 179    | 81    | 111   | 63    | 68    | 115   |
| Zarnow (Grambin) .....                   | 165  | 166   | 192   | 312    | 251   | 138   | 358    | 568    | 239   | 216   | 142   | 153   | 213   |

| Specification <sup>2</sup>               | 2000                                    | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | Discharge, million cubic metre per year |       |       |       |       |       |       |       |       |       |       |       |       |
| Baltic Sea .....                         | 2,404                                   | 2,197 | 2,519 | 3,306 | 2,792 | 1,769 | 2,973 | 3,991 | 2,627 | 2,814 | 1,950 | 2,524 | 1,998 |
| Rivers in Schleswig-Holstein .....       | 714                                     | 612   | 648   | 1,096 | 921   | 531   | 934   | 905   | 810   | 805   | 609   | 846   | 679   |
| Langballigau (Langballig) .....          | 13                                      | 16    | 13    | 26    | 19    | 16    | 18    | 20    | 20    | 20    | 23    | 24    | 17    |
| Füsinger Au (Füsing) .....               | 66                                      | 75    | 69    | 124   | 102   | 82    | 95    | 99    | 77    | 79    | 82    | 105   | 77    |
| Koseler Au (Kosel) .....                 | 15                                      | 17    | 16    | 20    | 18    | 12    | 14    | 17    | 14    | 14    | 14    | 18    | 13    |
| Schwentine (Kiel-Oppendorf) .....        | 179                                     | 140   | 169   | 260   | 301   | 138   | 233   | 271   | 236   | 226   | 154   | 234   | 192   |
| Kossau (Kiel-Oppendorf) .....            | 28                                      | 21    | 25    | 40    | 30    | 21    | 42    | 41    | 32    | 37    | 25    | 38    | 29    |
| Goddendorfer Au (Löhrstorf + Stolpe) ... | 5                                       | 5     | 12    | 20    | 13    | 8     | 22    | 12    | 9     | 11    | 5     | 10    | 8     |
| Oldenburger Graben (Dahme) .....         | 10                                      | 10    | 20    | 43    | 24    | 16    | 42    | 20    | 16    | 21    | 9     | 19    | 15    |
| Aalbeck (Lübeck-Moisling) .....          | 9                                       | 11    | 11    | 20    | 14    | 8     | 15    | 14    | 11    | 14    | 9     | 14    | 11    |
| Schwartau (Bad Schwartau) .....          | 47                                      | 38    | 40    | 84    | 69    | 21    | 76    | 69    | 59    | 65    | 48    | 64    | 54    |
| Lippingau (Langballig) .....             | 11                                      | 15    | 11    | 21    | 17    | 13    | 15    | 18    | 18    | 17    | 20    | 22    | 15    |
| Hagener Au (Kiel-Oppendorf) .....        | 21                                      | 18    | 20    | 32    | 24    | 17    | 29    | 34    | 30    | 30    | 20    | 31    | 24    |
| Trave (Lübeck-Moisling) .....            | 310                                     | 245   | 242   | 406   | 290   | 179   | 334   | 290   | 290   | 272   | 201   | 268   | 225   |
| Rivers in Mecklenburg-Vorpommern .....   | 1,689                                   | 1,586 | 1,871 | 2,210 | 1,871 | 1,238 | 2,039 | 3,085 | 1,817 | 2,009 | 1,341 | 1,679 | 1,318 |
| Peene (Anklam-Hafen) .....               | 637                                     | 536   | 684   | 736   | 684   | 398   | 664   | 1,103 | 603   | 636   | 465   | 639   | 430   |
| Warnow (Rostock [Kessin]) .....          | 407                                     | 460   | 530   | 668   | 530   | 359   | 517   | 731   | 478   | 552   | 347   | 437   | 372   |
| Barthe (Redebas) .....                   | 48                                      | 47    | 39    | 67    | 39    | 29    | 69    | 94    | 31    | 42    | 27    | 47    | 28    |
| Duvenbaek (Kluis) .....                  | 9                                       | 9     | 7     | 16    | 7     | 3     | 13    | 18    | 8     | 10    | 5     | 9     | 5     |
| Hellbach (Tessmannsdorf) .....           | 34                                      | 27    | 26    | 53    | 26    | 19    | 45    | 63    | 34    | 42    | 21    | 26    | 23    |
| Maurine (Schönberg) .....                | 25                                      | 21    | 24    | 32    | 24    | 17    | 34    | 36    | 25    | 26    | 18    | 25    | 21    |
| Recknitz (Ribnitz) .....                 | 88                                      | 90    | 115   | 103   | 115   | 61    | 88    | 194   | 130   | 199   | 128   | 161   | 121   |
| Ryck (Greifswald) .....                  | 21                                      | 54    | 30    | 33    | 30    | 27    | 36    | 35    | 21    | 31    | 23    | 26    | 24    |
| Stepnitz (Rodenberg) .....               | 96                                      | 78    | 88    | 113   | 88    | 59    | 110   | 118   | 88    | 83    | 58    | 76    | 74    |
| Uecker (Ueckermünde-Hafen) .....         | 190                                     | 168   | 241   | 274   | 241   | 186   | 336   | 510   | 277   | 282   | 168   | 172   | 111   |
| Wallsteingraben (Wismar) .....           | 79                                      | 46    | 27    | 47    | 27    | 29    | 41    | 50    | 34    | 32    | 23    | 17    | 30    |
| Zarnow (Grambin) .....                   | 56                                      | 49    | 61    | 67    | 61    | 49    | 88    | 132   | 87    | 74    | 59    | 42    | 78    |

<sup>2</sup> Feature in brackets corresponds to the measuring point of the respective inflow.

Source: German Environment Agency using information from the Länder and river basin communities



14 Life below water

Protecting the oceans - *Protecting and sustainably using oceans and marine resources*

14.1.b Proportion of sustainably fished stocks of fish in the North and the Baltic Sea

1. Definition

The indicator shows the sustainably managed fish stocks (according to the Maximum Sustainable Yield [MSY] approach) as a proportion of the total of managed fish stocks in the North and the Baltic Sea.

2. Data on the time series of the indicator

| Specification   | 2003    | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |      |
|---|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|   | Percent |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Proportion of MSY examined in all managed stocks, ..... | 37.2    | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 38.5 | 38.5 | 38.5 | 38.5 | 37.2 | 38.5 |
| including:  |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Sustainable managed stocks                              |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Total .....   | 31.0    | 24.1 | 17.2 | 17.2 | 20.7 | 24.1 | 37.9 | 37.9 | 53.3 | 40.0 | 60.0 | 50.0 | 55.2 | 56.7 |      |
| In the North Sea .....                                  | 38.1    | 23.8 | 14.3 | 14.3 | 19.0 | 23.8 | 42.9 | 42.9 | 54.5 | 40.9 | 59.1 | 40.9 | 57.1 | 59.1 |      |
| In the Baltic Sea .....                                 | 12.5    | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 50.0 | 37.5 | 62.5 | 75.0 | 50.0 | 50.0 |      |

3. Supplementary data

| Specification              | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sustainably managed stocks |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Total .....                | 9    | 7    | 5    | 5    | 6    | 7    | 11   | 11   | 16   | 12   | 18   | 15   | 16   | 17   |
| In the North Sea .....     | 8    | 5    | 3    | 3    | 4    | 5    | 9    | 9    | 12   | 9    | 13   | 9    | 12   | 13   |
| In the Baltic Sea .....    | 1    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 4    | 3    | 5    | 6    | 4    | 4    |
| MSY-investigated stocks    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Total .....                | 29   | 29   | 29   | 29   | 29   | 29   | 29   | 29   | 30   | 30   | 30   | 30   | 29   | 30   |
| In the North Sea .....     | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 21   | 22   | 22   | 22   | 22   | 21   | 22   |
| In the Baltic Sea .....    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| All managed stocks         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Total .....                | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   | 78   |
| In the North Sea .....     | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   | 58   |
| In the Baltic Sea .....    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |

Source: European Commission; STECF - Monitoring the performance of the Common Fisheries Policy (STECF-15-04); Table 3.1 and 3.4

4. Further information

European Commission; Scientific, Technical and Economic Committee for Fisheries (STECF) - Monitoring the performance of the Common Fisheries Policy (STECF-15-04)

[stecf.jrc.ec.europa.eu/reports/cfp-monitoring](http://stecf.jrc.ec.europa.eu/reports/cfp-monitoring)

15 Life on Land

Biodiversity – Conserving species – Protecting habitats

15.1 Biodiversity and landscape quality

1. Definition

The indicator shows the population development for 51 selected bird species in the form of an index.

2. Data on the time series of the indicator<sup>1</sup>

| Specification                  | 1970 <sup>2</sup>       | 1975 <sup>2</sup> | 1990 | 1995 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------------|-------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                | Target year: 2030 = 100 |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Index overall .....            | 106.9                   | 101.4             | 76.6 | 73.1 | 71.9 | 71.1 | 69.7 | 69.8 | 72.4 | 71.1 | 70.2 | 70.2 | 70.4 | 67.4 | 68.0 | 66.6 | 70.8 | 68.0 | 67.2 | 70.3 |
| Sub-index forests.....         | 77.5                    | 78.5              | 81.6 | 70.7 | 73.4 | 74.8 | 74.3 | 78.5 | 79.1 | 79.6 | 78.5 | 75.4 | 81.6 | 73.2 | 79.2 | 79.8 | 87.0 | 86.4 | 84.0 | 90.1 |
| Sub-index settlements.....     | 99.7                    | 101.6             | 80.8 | 75.2 | 69.8 | 69.6 | 63.4 | 59.2 | 66.5 | 66.3 | 65.1 | 66.3 | 63.3 | 63.8 | 66.5 | 71.4 | 71.4 | 68.6 | 70.4 | 73.2 |
| Sub-index farmland.....        | 128.8                   | 117.2             | 74.2 | 73.8 | 71.7 | 68.6 | 68.8 | 67.8 | 70.7 | 68.3 | 68.0 | 68.3 | 66.1 | 65.2 | 62.7 | 58.4 | 62.6 | 58.1 | 57.4 | 59.2 |
| Sub-index inland waters 3..... | 82.7                    | 80.3              | 64.1 | 67.5 | 67.4 | 73.7 | 67.0 | 66.7 | 72.0 | 69.0 | 63.1 | 72.5 | 76.8 | 70.6 | 68.2 | 69.5 | 72.6 | 73.4 | 73.6 | 74.6 |
| Sub-index coasts/seas 3.....   | 77.3                    | 81.1              | 79.7 | 85.4 | 76.8 | 80.9 | 71.8 | 68.1 | 63.5 | 63.6 | 63.2 | 65.6 | 55.1 | 59.4 | 62.2 | 62.4 | 56.1 | 56.6 | 56.2 | 58.5 |
| Sub-index for the Alps.....    | /                       | /                 | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    | /    |

1 The time series were recalculated using a modified procedure following a methodological change in the baseline data. The sub-index concerning the Alps is currently suspended over the whole data series.

2 The historical values for 1970 and 1975 are reconstructed.

3 For some bird species in the habitats of inland water and coast and seas, value for individual years have been extrapolated.

Source: Federal Agency for Nature Conservation, August 2018

4. Further information

Bundesamt für Naturschutz (only available in German)

[www.bfn.de/indikator-artenvielfalt-und-landschaftsqualitaet](http://www.bfn.de/indikator-artenvielfalt-und-landschaftsqualitaet)

Dachverband Deutscher Avifaunisten, [www.dda-web.de](http://www.dda-web.de) (Monitoring der häufigen Brutvögel) (only available in German)

[www.dda-web.de](http://www.dda-web.de)

Bundesministerium für Umwelt, Naturschutz und nukleare Sicherheit

[www.bmu.de/en/](http://www.bmu.de/en/)

## 15.2 Eutrophication of ecosystems

### 1. Definition

The indicator shows the sensitive ecosystem area where the critical ecological loads have been exceeded due to atmospheric nitrogen inputs, as a proportion of the total assessed sensitive ecosystem area.

### 2. Data on the time series of the indicator

| Specification   | 2000  | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|   | Percentage share of the assessed sensitive ecosystem area |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Ecosystems where critical loads for eutrophication are exceeded due to nitrogen input ..... | 79  | 77   | 76   | 72   | 75   | 77   | 75   | 75   | 72   | 72   | 73   | 68   | 69   | 70   | 69   | 68   |

### 3. Supplementary data

| Specification   | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  |
|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | Percentage share of the assessed sensitive ecosystem area |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Ecosystems where critical loads for eutrophication are not exceeded due to nitrogen input ..... | 20.97   | 22.92 | 23.60 | 27.67 | 25.30 | 23.11 | 24.56 | 25.33 | 28.25 | 27.58 | 26.84 | 31.65 | 30.57 | 29.71 | 31.02 | 32.03 |
| Nitrogen input > 0 - 7,5 .....  | 16.16   | 17.04 | 17.97 | 22.48 | 19.80 | 19.74 | 18.40 | 18.19 | 22.32 | 22.84 | 21.35 | 24.63 | 26.20 | 25.07 | 25.72 | 25.64 |
| Nitrogen input > 7,5 - 10 .....   | 8.76  | 9.46  | 10.69 | 13.61 | 12.04 | 10.39 | 11.65 | 11.30 | 13.41 | 13.31 | 13.85 | 12.71 | 14.91 | 14.54 | 12.64 | 14.56 |
| Nitrogen input > 10 - 15 .....  | 27.38   | 27.01 | 27.96 | 28.14 | 30.87 | 31.86 | 31.35 | 29.41 | 27.46 | 29.63 | 30.91 | 23.19 | 22.51 | 25.44 | 24.49 | 20.46 |
| Nitrogen input > 15 - 20 .....  | 20.51   | 18.60 | 13.75 | 5.08  | 8.00  | 11.17 | 10.64 | 12.08 | 5.97  | 4.61  | 4.91  | 5.52  | 4.01  | 3.55  | 3.94  | 4.17  |
| Nitrogen input > 20 - 30 .....  | 4.97  | 3.99  | 5.38  | 2.68  | 3.60  | 3.44  | 3.18  | 3.30  | 2.49  | 1.97  | 2.08  | 2.26  | 1.80  | 1.67  | 2.12  | 2.64  |
| Nitrogen input > 30 .....   | 1.25  | 0.98  | 0.65  | 0.34  | 0.40  | 0.29  | 0.22  | 0.40  | 0.09  | 0.06  | 0.06  | 0.03  | 0.02  | 0.01  | 0.08  | 0.50  |
| Ecosystems where critical loads for eutrophication are exceeded due to nitrogen input .....     | 79.03   | 77.08 | 76.40 | 72.33 | 74.71 | 76.89 | 75.44 | 74.68 | 71.74 | 72.42 | 73.16 | 68.34 | 69.45 | 70.28 | 68.99 | 67.97 |

Source: Schaap, M., Banzhaf, S., Hendriks, C., Kranenburg, R., Kuenen, J., Nagel, H.-D., Schlutow, A., and Segers, A. (2018). PINETI (Pollutant INput and EcosysTem Impact) III: Modellierung und Kartierung atmosphärischer Stoffeinträge von 2000 bis 2015 zur Bewertung der ökosystem-spezifischen Gefährdung von Biodiversität in Deutschland. UBA-Texte 79/2018 (erschienen im Oktober 2018). Abschlussbericht zum BMUB/UBA UFOPLAN-Projekt 3714 60 2010. Umweltbundesamt, Dessau-Roßlau. (only available in German)

### 4. Further information

German Environment Agency

[www.umweltbundesamt.de/en/indicator-nitrogen-eutrophication](http://www.umweltbundesamt.de/en/indicator-nitrogen-eutrophication)

15 Life on Land

Forests – Preventing deforestation

15.3 Preservation or restoration of forests in developing countries under the REDD+ rulebook

1. Definition

The indicator shows the payments by Germany to developing and emerging countries for the verified preservation or restoration of forests under the REDD+ rulebook.

2. Data on the time series of the indicator

| Specification  | 2009              | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|-------------------|------|------|------|------|------|------|------|------|
|  | Millions of euros |      |      |      |      |      |      |      |      |
| Payments to developing and emerging countries for the verified preservation or restoration of forests under the REDD+ rulebook ..... | 3.0               | 20.0 | 12.0 | 24.9 | 36.3 | 31.0 | 15.7 | 59.8 | 68.0 |

3. Supplementary data

| Specification   | 2009              | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|-------------------|------|------|------|------|------|------|------|------|
|   | Millions of euros |      |      |      |      |      |      |      |      |
| Payments to developing and emerging countries for the verified preservation of forests under the REDD+ rulebook ..... | 3.0               | 20.0 | 12.0 | 24.9 | 36.3 | 31.0 | 15.7 | 59.8 | 68.0 |
| Multilateral programmes .....   | 3.0               | 20.0 | 12.0 | 23.0 | 18.0 | 31.0 | 12.4 | 51.8 | 58.9 |
| Forest Carbon Partnership Facility (FCPF) .....   | 3.0               | 17.0 | 12.0 | 17.0 | 10.0 | 27.0 | 12.4 | 51.8 | 25.0 |
| Amazon Fund .....   | .                 | 3.0  | .    | 6.0  | 8.0  | 4.0  | 0.0  | 0.0  | 33.9 |
| Bilateral programmes .....  | .                 | .    | .    | 1.9  | 18.3 | .    | 3.3  | 8.0  | 9.1  |
| REDD Early Mover (REM) 1 .....  | .                 | .    | .    | 1.9  | 18.3 | .    | 3.3  | 8.0  | 9.1  |

REDD+ = Reducing Emissions from Deforestation and Forest Degradation

"Plus" = Reforestation and sustainability forest cultivation.

1 REM is an innovative programme of German development assistance that rewards pioneers in the field of forest and climate protection.

Source: Federal Ministry for Economic Cooperation and Development

4. Further information

Federal Ministry for Economic Cooperation and Development

[www.bmz.de/en/issues/klimaschutz](http://www.bmz.de/en/issues/klimaschutz)

[www.bmz.de/en/issues/wald](http://www.bmz.de/en/issues/wald)

16 Peace, justice and strong institutions

Crime – Further increasing personal security

16.1 Criminal offences

1. Definition

The indicator shows the number of criminal offences reported to the police per 100,000 inhabitants.

2. Data on the time series of the indicator

| Specification  | 1993  | 1995  | 2000  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | Recorded cases per 100,000 inhabitants <sup>1</sup> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Criminal offences (new calculation based on Census 2011).... | 8,354   | 8,212 | 7,692 | 7,852 | 7,757 | 7,752 | 7,557 | 7,510 | 7,385 | 7,468 | 7,466 | 7,404 | 7,530 | 7,797 | 7,755 | 6,982 |
| including:   |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Domestic burglary (435*) 2.....                              | 281   | 260   | 172   | 135   | 131   | 135   | 134   | 141   | 151   | 165   | 179   | 186   | 188   | 206   | 184   | 141   |
| Dangerous and serious bodily injury (2220) 2.....            | 109   | 118   | 144   | 181   | 186   | 191   | 187   | 185   | 178   | 173   | 169   | 159   | 156   | 157   | 170   | 166   |
| Fraud (5100) 2.....  | 654   | 771   | 955   | 1,176 | 1,181 | 1,130 | 1,099 | 1,183 | 1,198 | 1,157 | 1,186 | 1,165 | 1,200 | 1,190 | 1,094 | 1,103 |

3. Supplementary data

| Specification   | 1993                      | 1995  | 2000  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  |
|---|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | Recorded cases, thousands |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Total criminal offences.....  | 6,751                     | 6,669 | 6,265 | 6,392 | 6,304 | 6,285 | 6,114 | 6,054 | 5,933 | 5,991 | 5,997 | 5,962 | 6,082 | 6,331 | 6,373 | 5,762 |
| including:  |                           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Domestic burglary (435*) 2.....   | 227                       | 211   | 140   | 110   | 106   | 109   | 108   | 114   | 121   | 133   | 144   | 150   | 152   | 167   | 151   | 117   |
| Dangerous and serious bodily injury (2220) 2.....   | 88                        | 96    | 117   | 147   | 151   | 155   | 151   | 149   | 143   | 139   | 136   | 128   | 126   | 127   | 140   | 137   |
| Fraud (5100) 2.....   | 528                       | 623   | 771   | 950   | 954   | 913   | 888   | 956   | 968   | 935   | 959   | 938   | 969   | 966   | 899   | 910   |
| Offences against the Residence Act, the Asylum Act and the Freedom of Movement Act E.U. (7250)..... | 240                       | 214   | 193   | 104   | 101   | 89    | 77    | 74    | 74    | 78    | 89    | 111   | 156   | 403   | 488   | 180   |
|   | Percentage share          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Domestic burglary (435*) 2.....   | 3.4                       | 3.2   | 2.2   | 1.7   | 1.7   | 1.7   | 1.8   | 1.9   | 2.0   | 2.2   | 2.4   | 2.5   | 2.5   | 2.6   | 2.4   | 2.0   |
| Dangerous and serious bodily injury (2220) 2.....   | 1.3                       | 1.4   | 1.9   | 2.3   | 2.4   | 2.5   | 2.5   | 2.5   | 2.4   | 2.3   | 2.3   | 2.1   | 2.1   | 2.0   | 2.2   | 2.4   |
| Fraud (5100) 2.....   | 7.8                       | 9.3   | 12.3  | 14.9  | 15.1  | 14.5  | 14.5  | 15.8  | 16.3  | 15.6  | 16.0  | 15.7  | 15.9  | 15.3  | 14.1  | 15.8  |
| Offences against the Residence Act, the Asylum Act and the Freedom of Movement Act E.U. (7250)..... | 3.6                       | 3.2   | 3.1   | 1.6   | 1.6   | 1.4   | 1.3   | 1.2   | 1.2   | 1.3   | 1.5   | 1.9   | 2.6   | 6.4   | 7.7   | 3.1   |
|   | 1993 = 100                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Domestic burglary (435*) 2.....   | 100                       | 93.0  | 61.7  | 48.3  | 46.7  | 48.1  | 47.7  | 50.1  | 53.4  | 58.4  | 63.5  | 65.8  | 67.0  | 73.6  | 66.6  | 51.3  |
| Dangerous and serious bodily injury (2220) 2.....   | 100                       | 109.1 | 133.2 | 167.6 | 171.9 | 176.4 | 172.3 | 170.1 | 162.8 | 158.4 | 155.0 | 145.7 | 143.3 | 145.1 | 159.5 | 156.1 |
| Fraud (5100) 2.....   | 100                       | 117.9 | 146.0 | 179.8 | 180.6 | 172.8 | 168.0 | 180.9 | 183.2 | 176.9 | 181.4 | 177.5 | 183.4 | 182.9 | 170.1 | 172.3 |
| Total criminal offences.....  | 100                       | 98.8  | 92.8  | 94.7  | 93.4  | 93.1  | 90.6  | 89.7  | 87.9  | 88.7  | 88.8  | 88.3  | 90.1  | 93.8  | 94.4  | 85.4  |

| Specification  | 1993                   | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  | Clear-up rate, percent |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Total criminal offences.....   | 43.8                   | 46.0 | 53.2 | 55.0 | 55.4 | 55.0 | 54.8 | 55.6 | 56.0 | 54.7 | 54.4 | 54.5 | 54.9 | 56.3 | 56.2 | 57.1 |
| Domestic burglary (435*) 2.....  | 13.8                   | 15.1 | 17.7 | 19.6 | 19.3 | 20.0 | 18.1 | 16.9 | 15.9 | 16.2 | 15.7 | 15.5 | 15.9 | 15.2 | 16.9 | 17.8 |
| Dangerous and serious bodily injury (2220) 2.....  | 80.1                   | 81.7 | 83.9 | 83.5 | 83.2 | 82.5 | 82.3 | 82.2 | 82.3 | 82.3 | 81.4 | 82.1 | 82.4 | 82.3 | 82.6 | 82.8 |
| Fraud (5100) 2.....  | 81.2                   | 78.6 | 79.9 | 83.1 | 83.8 | 83.3 | 81.7 | 81.3 | 79.9 | 78.3 | 77.4 | 76.2 | 76.8 | 76.4 | 75.0 | 73.7 |
| Offences against the Residence Act, the Asylum Act and<br>the Freedom of Movement Act E.U. (7250)..... | 99.9                   | 99.6 | 99.2 | 97.6 | 98.7 | 97.7 | 97.4 | 98.0 | 98.4 | 98.4 | 98.5 | 98.8 | 99.2 | 99.7 | 83.8 | 99.5 |

1 According to the BKA, the population figures refer to the reference day 31.12. of the previous year. In order to make the data comparable, the (recalculated) population figures, based on the 2011 census, are used for the entire time series.

2 Code of the Police Crime Statistics.

Sources: Federal Criminal Police Office, 2018: Police Crime Statistics 2017

Federal Statistical Office: Census 2011

#### 4. Further information

Federal Criminal Police Office

[www.bka.de/policecrimestatistics](http://www.bka.de/policecrimestatistics)

## 16 Peace, justice and strong institutions

Peace and security – *Taking practical action to combat proliferation, especially of small arms*

### 16.2 Number of projects to secure, register and destroy small arms and light weapons carried out by Germany in affected regions of the world

#### 1. Definition

The indicator shows the number of projects to secure, register and destroy small arms and light weapons carried out in Africa, Eastern Europe, Latin America and Asia with German financial support.

#### 2. Data on the time series of the indicator

| Specification   | 2006   | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---|--------|------|------|------|------|------|------|------|------|------|------|
|   | Number |      |      |      |      |      |      |      |      |      |      |
| Projects to secure, register and destroy small arms and light weapons carried out by Germany in affected regions of the world ..... | 8      | 6    | 8    | 2    | 3    | 11   | 15   | 14   | 15   | 26   | 26   |

Source: Federal Foreign Office

#### 3. Supplementary data

| Specification  | 2006               | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|--|--------------------|------|------|------|------|------|------|------|------|------|------|
|  | Number of projects |      |      |      |      |      |      |      |      |      |      |
| Reintegration; Combating small arms and light weapons (funding code 15240) ..... | 15                 | 6    | 6    | 9    | 11   | 6    | 6    | 5    | 14   | 13   | 15   |

Source: Organization for Economic Co-operation and Development (OECD)

#### 4. Further information

Federal Foreign Office

[www.auswaertiges-amt.de/en/abruestung](http://www.auswaertiges-amt.de/en/abruestung)

## 16 Peace, justice and strong institutions

Good governance – *Combating corruption*

### 16.3.a Corruption Perceptions Index in Germany

### 16.3.b Corruption Perceptions Index in partner countries of German development assistance

#### 1. Definition

The indicators provide the Corruption Perceptions Index (CPI) from Transparency International for Germany (16.3.a) as well as the number of partner countries in the German development assistance whose CPI has improved compared with 2012 (16.3.b). The CPI measures how strongly corruption in the public sector is perceived in a country.

#### 2. Data on the time series of the indicator

| Specification   | 2012                         | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|------------------------------|------|------|------|------|------|
|   | Corruption Perceptions Index |      |      |      |      |      |
| Rating for Germany .....  | 79                           | 78   | 79   | 81   | 81   | 81   |
|   | Number                       |      |      |      |      |      |
| Partner countries of German development assistance whose rating has improved compared with 2012 ..... | x                            | 18   | 39   | 43   | 43   | 42   |

Sources: Transparency International  
Federal Ministry for Economic Cooperation and Development

#### 3. Supplementary data

| Specification         | 2012                         | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------------------|------------------------------|------|------|------|------|------|
|                       | Corruption Perceptions Index |      |      |      |      |      |
| Ranking 2017 (Top 15) |                              |      |      |      |      |      |
| New Zealand .....     | 90                           | 91   | 91   | 88   | 90   | 89   |
| Denmark .....         | 90                           | 91   | 92   | 91   | 90   | 88   |
| Finland .....         | 90                           | 89   | 89   | 90   | 89   | 85   |
| Norway .....          | 85                           | 86   | 86   | 87   | 85   | 85   |
| Switzerland .....     | 86                           | 85   | 86   | 86   | 86   | 85   |
| Singapore .....       | 87                           | 86   | 84   | 85   | 84   | 84   |
| Sweden .....          | 88                           | 89   | 87   | 89   | 88   | 84   |
| Canada .....          | 84                           | 81   | 81   | 83   | 82   | 82   |
| Luxembourg .....      | 80                           | 80   | 82   | 81   | 81   | 82   |
| Netherlands .....     | 84                           | 83   | 83   | 87   | 83   | 82   |
| Great Britain .....   | 74                           | 76   | 78   | 81   | 81   | 82   |
| Germany .....         | 79                           | 78   | 79   | 81   | 81   | 81   |

Source: Transparency International



| Specification   | 2012           | 2013      | 2014      | 2015      | 2016      | 2017      |
|---|----------------|-----------|-----------|-----------|-----------|-----------|
|   | Recorded cases |           |           |           |           |           |
| Total criminal offences .....   | 5,997,040      | 5,961,662 | 6,082,064 | 6,330,649 | 6,372,526 | 5,761,984 |
| Public sector .....   | 1,268          | 1,128     | 2,124     | 1,076     | 1,126     | 961       |
| Accepting money or other personal gains, corruptibility §§ 331, 332, 335 StGB (651000) 1 .....      | 655            | 461       | 1,206     | 452       | 488       | 396       |
| Offering a payment or other valuable, bribery §§ 333, 334, 335 StGB (652000) 1 .....                | 613            | 667       | 918       | 624       | 638       | 565       |
| Enterprises .....   | 635            | 714       | 499       | 507       | 242       | 238       |
| Agreements restricting competition in tender procedures § 298 StGB (656000) 1 .....                 | 115            | 77        | 75        | 94        | 77        | 25        |
| Corruptibility and corruption in commercial practice §§ 299, 300 StGB (657000)1 .....               | 519            | 637       | 423       | 404       | 165       | 213       |
| Criminal offences according §§ 1 and 2 of the Act Against International Corruption (720013) 1 ..... | 1              | 0         | 1         | 9         | 0         | 0         |
| Classification unclear .....  |                |           |           |           |           |           |
| Criminal offences according § 1 of the EU Anti Corruption Act (720012) 1 .....                      | 0              | 0         | 0         | 0         | 212       | 0         |

1 Code of the Police Crime Statistics.

Source: Federal Criminal Police Office, 2018: Police Crime Statistics 2017

| Specification  | 2015             | 2017 |
|--|------------------|------|
|  | Percentage share |      |
| Proportion of the population who were under the impression that employees in the public sector are corruptible ..... | 4.7              | 3.7  |
| female .....   | 4.9              | 3.8  |
| male .....   | 4.4              | 3.6  |
| Proportion of enterprises which were under the impression that public sectors employees are corruptible .....        | 3.6              | 2.4  |

Source: Federal Statistical Office

#### 4. Further information

Transparency International

[www.transparency.org](http://www.transparency.org)

Federal Criminal Police Office

[www.bka.de/policecrimestatistics](http://www.bka.de/policecrimestatistics)

Statistisches Bundesamt (only available in German)

[www.amtlich-einfach.de](http://www.amtlich-einfach.de)

### 17.1 Expenditure for official development assistance as a proportion of gross national income

#### 1. Definition

The indicator shows public net expenditures for development assistance (Official Development Assistance or ODA) as a percentage of gross national income (GNI).

#### 2. Data on the time series of the indicator

| Specification   | 1995             | 2000 | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 <sup>1</sup> | 2017 <sup>2</sup> |
|---|------------------|------|------|------|------|------|------|------|------|-------------------|-------------------|
|   | Percentage share |      |      |      |      |      |      |      |      |                   |                   |
| Net expenditure for ODA as a proportion of gross national income..... | 0.31             | 0.27 | 0.36 | 0.39 | 0.39 | 0.37 | 0.38 | 0.42 | 0.52 | 0.70              | 0.66              |

#### 3. Supplementary data

| Specification  | 1995              | 2000    | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017 <sup>2</sup> |
|--|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|  | Billions of euros |         |         |         |         |         |         |         |         |         |                   |
| Net expenditure for official development assistance 3.....         | 5.5               | 5.5     | 8.1     | 9.8     | 10.1    | 10.1    | 10.7    | 12.5    | 16.2    | 22.4    | 21.9              |
| Private development assistance, which does not qualify as ODA..... | 0.8               | 0.9     | 1.2     | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 1.2     | 1.3     | 1.3               |
| Private direct investment.....                                     | 3.4               | 4.9     | 11.3    | 16.6    | 21.5    | 12.3    | 15.8    | 11.1    | 17.5    | 10.2    | 10.9              |
| Gross national income 4.....                                       | 1,791.8           | 2,020.3 | 2,251.2 | 2,535.3 | 2,620.4 | 2,707.9 | 2,813.8 | 2,981.8 | 3,091.3 | 3,198.7 | 3,323.6           |
|  | Percent           |         |         |         |         |         |         |         |         |         |                   |
| Official development assistance by sectors.....                    | .                 | .       | 100     | 100     | 100     | 100     | 100     | 100     | 100     | 100     | ...               |
| Bilateral.....   | .                 | .       | 73.9    | 62.0    | 61.7    | 66.3    | 66.4    | 70.0    | 78.7    | 79.4    | ...               |
| Subsidies.....   | .                 | .       | 81.8    | 53.3    | 53.2    | 64.1    | 59.5    | 56.8    | 58.4    | 67.6    | ...               |
| Technical cooperation.....   | .                 | .       | 28.4    | 34.5    | 33.3    | 38.6    | 35.8    | 31.5    | 22.1    | 17.5    | ...               |
| Subsidies of financial cooperation.....                            | .                 | .       | 8.1     | 10.5    | 9.0     | 9.9     | 8.1     | 7.5     | 5.8     | 5.8     | ...               |
| Development-oriented food aid.....                                 | .                 | .       | 0.2     | 0.4     | 0.5     | 0.9     | 0.4     | 0.6     | 0.7     | 1.5     | ...               |
| Emergency and refugee aid.....                                     | .                 | .       | 3.3     | 2.6     | 3.0     | 3.0     | 4.0     | 5.3     | 4.5     | 8.2     | ...               |
| Waivers of debt.....   | .                 | .       | 38.7    | 1.3     | 3.2     | 6.6     | 4.2     | 5.0     | 0.2     | 0.2     | ...               |
| Administrative expenses.....                                       | .                 | .       | 2.0     | 3.0     | 3.1     | 3.8     | 3.9     | 3.6     | 2.9     | 2.0     | ...               |
| Other.....   | .                 | .       | 0.9     | 1.1     | 1.1     | 1.2     | 3.0     | 3.3     | 22.1    | 32.5    | ...               |
| Loan/investments.....  | .                 | .       | -7.9    | 8.8     | 8.6     | 2.3     | 6.9     | 13.2    | 20.3    | 11.8    | ...               |
| Multilateral.....  | .                 | .       | 26.1    | 38.0    | 38.3    | 33.7    | 33.6    | 30.0    | 21.3    | 20.6    | ...               |
| Subsidies and payment on capital and fund shares.....              | .                 | .       | 26.1    | 38.0    | 38.3    | 33.7    | 33.6    | 30.0    | 21.3    | 20.6    | ...               |
| United Nations.....  | .                 | .       | 2.0     | 2.7     | 2.6     | 2.6     | 2.9     | 2.3     | 1.8     | 1.9     | ...               |
| European Union.....  | .                 | .       | 21.9    | 22.5    | 19.2    | 18.8    | 18.4    | 17.4    | 13.7    | 11.1    | ...               |
| World Bank.....  | .                 | .       | 0.0     | 5.9     | 10.1    | 6.1     | 6.2     | 4.5     | 0.2     | 2.4     | ...               |
| Regional development banks.....                                    | .                 | .       | 0.5     | 2.3     | 2.2     | 2.4     | 2.3     | 2.0     | 1.6     | 2.3     | ...               |
| Other.....   | .                 | .       | 1.8     | 4.5     | 4.1     | 3.7     | 3.8     | 3.9     | 4.0     | 3.0     | ...               |

| Specification   | 1995                 | 2000  | 2005  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 <sup>1</sup> |
|---|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|
|   | Billion of US-Dollar |       |       |       |       |       |       |       |       |       |                   |
| Donor countries with the 10 highest net expenditure for ODA (ranking according to 2016 figures)                           |                      |       |       |       |       |       |       |       |       |       |                   |
| USA.....  | 7.37                 | 9.95  | 27.93 | 29.66 | 30.97 | 30.65 | 31.27 | 33.10 | 30.99 | 34.42 | 35.26             |
| Germany.....  | 7.52                 | 5.03  | 10.08 | 12.99 | 14.09 | 12.94 | 14.23 | 16.57 | 17.94 | 24.74 | 24.68             |
| Great Britain.....  | 3.20                 | 4.50  | 10.77 | 13.05 | 13.83 | 13.89 | 17.87 | 19.26 | 18.55 | 18.05 | 17.94             |
| Japan.....  | 14.49                | 13.51 | 13.13 | 11.06 | 11.09 | 10.60 | 11.47 | 9.48  | 9.20  | 10.42 | 11.48             |
| France.....   | 8.44                 | 4.10  | 10.03 | 12.92 | 13.00 | 12.03 | 11.34 | 10.62 | 9.04  | 9.62  | 11.36             |
| Italy.....  | 1.62                 | 1.38  | 5.09  | 3.00  | 4.33  | 2.74  | 3.43  | 4.01  | 4.00  | 5.09  | 5.73              |
| Netherlands.....  | 3.23                 | 3.13  | 5.11  | 6.36  | 6.34  | 5.52  | 5.44  | 5.57  | 5.73  | 4.97  | 4.95              |
| Sweden.....   | 1.70                 | 1.80  | 3.36  | 4.53  | 5.60  | 5.24  | 5.83  | 6.23  | 7.09  | 4.89  | 5.51              |
| Norway.....   | 1.24                 | 1.26  | 2.79  | 4.37  | 4.76  | 4.75  | 5.58  | 5.09  | 4.28  | 4.38  | 4.12              |
| Spain.....  | 1.35                 | 1.19  | 3.02  | 5.95  | 4.17  | 2.04  | 2.35  | 1.88  | 1.40  | 4.22  | 2.41              |
|   | Percent              |       |       |       |       |       |       |       |       |       |                   |
| Donor countries with the 10 highest percentage shares of ODA in gross national income (ranking according to 2016 figures) |                      |       |       |       |       |       |       |       |       |       |                   |
| Norway.....   | 0.86                 | 0.76  | 0.94  | 1.05  | 0.96  | 0.93  | 1.07  | 1.00  | 1.05  | 1.12  | 0.99              |
| Luxembourg.....   | 0.36                 | 0.70  | 0.79  | 1.05  | 0.97  | 1.00  | 1.00  | 1.06  | 0.95  | 1.00  | 1.00              |
| Sweden.....   | 0.77                 | 0.80  | 0.94  | 0.97  | 1.02  | 0.97  | 1.01  | 1.09  | 1.40  | 0.94  | 1.01              |
| Denmark.....  | 0.96                 | 1.06  | 0.81  | 0.91  | 0.85  | 0.83  | 0.85  | 0.86  | 0.85  | 0.75  | 0.72              |
| Great Britain.....  | 0.29                 | 0.32  | 0.47  | 0.57  | 0.56  | 0.56  | 0.70  | 0.70  | 0.70  | 0.70  | 0.70              |
| Germany.....  | 0.31                 | 0.27  | 0.36  | 0.39  | 0.39  | 0.37  | 0.38  | 0.42  | 0.52  | 0.70  | 0.66              |
| Netherlands.....  | 0.81                 | 0.84  | 0.82  | 0.81  | 0.75  | 0.71  | 0.67  | 0.64  | 0.75  | 0.65  | 0.60              |
| Switzerland.....  | 0.33                 | 0.32  | 0.42  | 0.39  | 0.46  | 0.47  | 0.46  | 0.50  | 0.51  | 0.53  | 0.46              |
| Belgium.....  | 0.38                 | 0.36  | 0.53  | 0.64  | 0.54  | 0.47  | 0.45  | 0.46  | 0.42  | 0.50  | 0.45              |
| Finland.....  | 0.31                 | 0.31  | 0.46  | 0.55  | 0.53  | 0.53  | 0.54  | 0.59  | 0.55  | 0.44  | 0.41              |

1 The target of 0,7 % of gross national income was not entirely fulfilled. The percentage share was 0.699.

2 Provisional data.

3 Up to 2013 ESA 95, since 2014 ESA 2010.

4 Therefore diverging from National Account results. Gross national income as of May of the following year.

Sources: Federal Statistical Office: Statistics for development assistance  
Federal Ministry for Economic Cooperation and Development  
Organization for Economic Co-operation and Development

#### 4. Further information

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung: Entwicklungspolitik als Zukunfts- und Friedenspolitik, 15. Entwicklungspolitische Bericht der Bundesregierung, März 2017 (only available in German)

OECD: Development Aid at a Glance

[www.oecd.org](http://www.oecd.org)

## 17 Partnerships for the goals

Knowledge transfer, especially in technical areas – *Sharing knowledge internationally*

### 17.2 Number of students and researchers from developing countries and LDCs per year

#### 1. Definition

The indicator records the number of students and researchers from developing and emerging countries per year or semester. Here, the number of students and researchers from the least developed countries (LDCs) is listed separately.

#### 2. Data on the time series of the indicator

| Specification  | 2005      | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017 <sup>1</sup> |
|--|-----------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|  | Thousands |         |         |         |         |         |         |         |                   |
| Students and researchers from developing and emerging countries in Germany ..... | 132.636   | 149.354 | 158.651 | 170.706 | 185.888 | 200.349 | 215.258 | 230.687 | 247.433           |
| Students from LDCs .....   | 4.953     | 6.295   | 6.924   | 7.576   | 8.348   | 9.244   | 9.746   | 10.118  | 10.574            |
| Students from other developing and emerging countries .....                      | 121.719   | 132.283 | 140.305 | 150.881 | 164.098 | 176.768 | 190.403 | 204.694 | 219.307           |
| Researchers from LDCs .....  | 0.288     | 0.428   | 0.475   | 0.507   | 0.577   | 0.5     | 0.517   | 0.558   | 0.649             |
| Researchers from other developing and emerging countries .....                   | 5.676     | 10.348  | 10.947  | 11.742  | 12.865  | 13.837  | 14.592  | 15.317  | 16.904            |

#### 3. Supplementary data

| Specification                                     | 2005      | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | 2017 <sup>1</sup> |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------------|
|   | Number    |           |           |           |           |           |           |           |                   |
| Students total .....                              | 1,986,106 | 2,217,604 | 2,380,974 | 2,499,409 | 2,616,881 | 2,698,910 | 2,757,799 | 2,807,010 | 2,844,978         |
| Students from developing countries total .....    | 126,672   | 138,578   | 147,229   | 158,457   | 172,446   | 186,012   | 200,149   | 214,812   | 229,881           |
| including:  |           |           |           |           |           |           |           |           |                   |
| China .....                                       | 27,390    | 24,443    | 25,521    | 27,364    | 30,511    | 32,460    | 34,643    | 37,603    | 39,541            |
| India .....                                       | 3,988     | 5,038     | 5,998     | 7,532     | 9,619     | 11,860    | 13,740    | 15,529    | 17,570            |
| Turkey .....                                      | 22,419    | 26,089    | 28,501    | 30,645    | 33,004    | 34,736    | 36,530    | 38,309    | 39,338            |
| LDCs .....  | 4,953     | 6,295     | 6,924     | 7,576     | 8,348     | 9,244     | 9,746     | 10,118    | 10,574            |
| Researchers total .....                           | 240,186   | 324,367   | 337,102   | 353,690   | 369,847   | 381,269   | 385,311   | 386,752   | 394,878           |
| Researchers from developing countries total ..... | 5,964     | 10,776    | 11,422    | 12,249    | 13,442    | 14,337    | 15,109    | 15,875    | 17,553            |

<sup>1</sup> Provisional data.

Source: Federal Statistical Office, University Statistics

#### 4. Further information

Statistisches Bundesamt, Bildung und Kultur, Studierende an Hochschulen, Fachserie 11, Reihe 4.1 (only available in German)

Statistisches Bundesamt, Bildung und Kultur, Personal an Hochschulen, Fachserie 11, Reihe 4.4 (only available in German)

[www.destatis.de/Bildung-Forschung-Kultur/Hochschulen](http://www.destatis.de/Bildung-Forschung-Kultur/Hochschulen)

## 17 Partnerships for the goals

Opening markets – Improving trade opportunities for developing countries

### 17.3 Imports from least developed countries (LDCs)

#### 1. Definition

The indicator shows the imports from the least developed countries (LDCs) as a proportion of all imports to Germany, measured in euros.

#### 2. Data on the time series of the indicator

| Specification                                 | 2002   | 2005 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 <sup>1</sup> |
|---|--|------|------|------|------|------|------|------|------|-------------------|
|   | Percentage share of total imports to Germany |      |      |      |      |      |      |      |      |                   |
| Imports from LDCs .....                       | 0.44   | 0.44 | 0.53 | 0.67 | 0.62 | 0.71 | 0.71 | 0.81 | 0.88 | 0.93              |
| Imports of processed products from LDCs ..... | 0.36   | 0.40 | 0.47 | 0.54 | 0.54 | 0.62 | 0.66 | 0.76 | 0.82 | 0.88              |

#### 3. Supplementary data

| Specification   | 2002   | 2005    | 2010    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017 <sup>1</sup> |
|---|--|---------|---------|---------|---------|---------|---------|---------|---------|-------------------|
|   | Millions of euros                            |         |         |         |         |         |         |         |         |                   |
| Total imports to Germany .....                                | 518,532                                      | 628,087 | 797,096 | 902,522 | 899,404 | 890,391 | 910,145 | 949,245 | 954,917 | 1,034,323         |
| Imports from LDCs .....                                       | 2,257  | 2,759   | 4,253   | 6,073   | 5,562   | 6,305   | 6,500   | 7,697   | 8,364   | 9,611             |
| Bangladesh .....  | .  | .       | .       | .       | .       | .       | 3,810   | 4,612   | 4,924   | 5,335             |
| Cambodia .....  | .  | .       | .       | .       | .       | .       | 958     | 1,234   | 1,359   | 1,541             |
| Imports of processed products from LDCs .....                 | 1,847  | 2,502   | 3,763   | 4,905   | 4,894   | 5,555   | 5,985   | 7,193   | 7,829   | 9,074             |
| Imports from developing countries .....                       | 70,899                                       | 104,178 | 167,832 | 187,126 | 185,309 | 179,468 | 185,601 | 201,648 | 205,336 | 226,065           |
| Imports of processed products from developing countries ..... | 63,081                                       | 88,359  | 146,361 | 159,273 | 156,243 | 151,569 | 161,288 | 183,813 | 190,529 | 207,819           |
|   | Percentage share of total imports to Germany |         |         |         |         |         |         |         |         |                   |
| Imports from developing countries .....                       | 13.67  | 16.59   | 21.06   | 20.73   | 20.60   | 20.16   | 20.39   | 21.24   | 21.50   | 21.86             |
| Imports of processed products from developing countries ..... | 12.17  | 14.07   | 18.36   | 17.65   | 17.37   | 17.02   | 17.72   | 19.36   | 19.95   | 20.09             |

<sup>1</sup> Provisional data.

Source: Federal Statistical Office, Foreign Trade Statistics