

Human Fertility Database Documentation: Germany

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1 General information¹

This document describes the German data that have been made available for the Human Fertility Database (HFD). As the data for Germany in the HFD cover the period 1950-2013², a portion of the data in the HFD span the years when Germany was divided into the Federal Republic of Germany (FRG) and the German Democratic Republic (GDR). The two states had their own statistical offices and separate legal frameworks that governed data collection. In the GDR, this office was called the *Staatliche Zentralverwaltung für Statistik* until 1990, when it was renamed the *Statistische Amt der DDR* (Statistisches Bundesamt 1999a: 75ff.; Oettel 2006: 53). In the FRG, the *Statistisches Bundesamt*, which was established in 1949, organized the data collection. Because the two statistical offices had different data collection procedures, data availability differs quite substantially between the two countries. Most notably, the statistical office of the GDR collected data on births by biological (lifetime) birth order. This practice was, however, discontinued in October 1990, when the German Unification Treaty prescribed that the legal framework (including regulations that governed the collection of data) was now applicable to the eastern part of Germany as well. This means that 1989, the year of the fall of the Berlin Wall, marks the last year for which order-specific fertility data are available in the vital statistics of East Germany. The Federal Republic of Germany never collected data on births by biological birth order; births were registered by birth order within the current marriage. In 2007, the German government passed a law stipulating that order-specific fertility should be collected in the vital statistics (Deutscher Bundestag 2007). The first year for which these data have been made available

¹ We would like to thank Ines Wlosnewski, who supported us in preparing the input files for the HFD.

² There are birth counts for the years 1946-1949 as well, but no age-specific data are available for this time period. For detailed description of the available data, see Table A2 in Appendix 2.

is 2009. Because the order-specific data for the year 2008 were not of suitable quality, the Statistisches Bundesamt has not released these data.

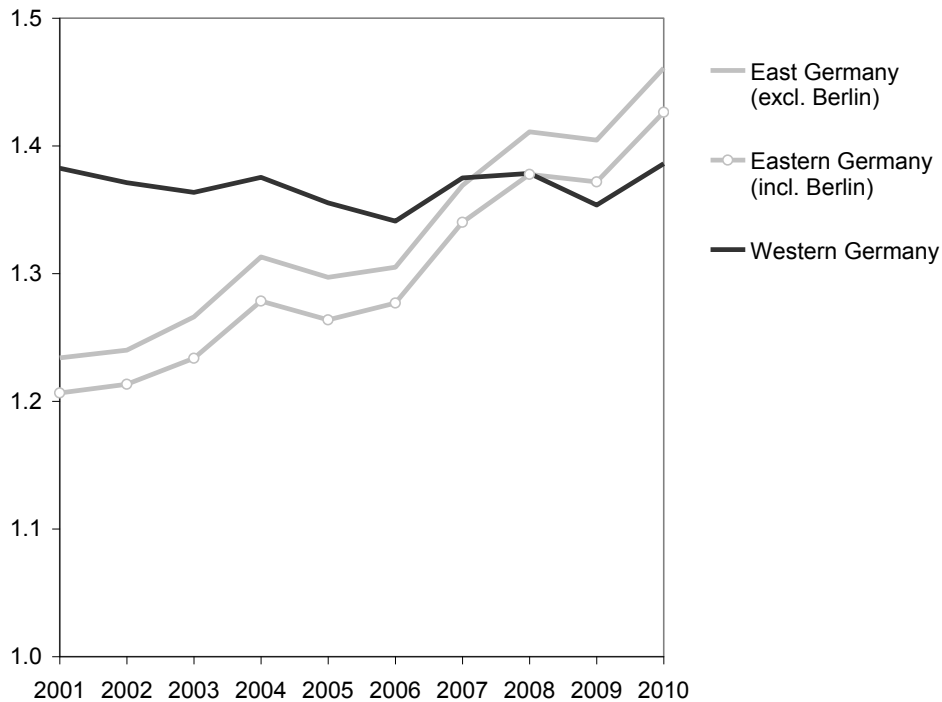
1.1 Territorial coverage

In 1990, the Unification Treaty, which merged the two previously separate states of Germany into one entity, was ratified. Within the group who prepared the input files of the HFD, of which we were members, we had a lively discussion about how to present fertility data for the period after unification. It was clear that we would like to present the data for Eastern and Western Germany separately, both before and after unification. However, it was unclear how Berlin should be treated. Berlin was divided prior to 1990, with West Berlin belonging to West Germany, and East Berlin to East Germany. There were four options available:

- In the first option (**Option A**), we would have continued to publish the fertility data based on the pre-1990 borders. West Berlin would have been included in the territories of West Germany, even after 1989. East Berlin would have been included in Eastern Germany. This approach presented problems, however, because of a major reform of the administrative division of Berlin that went into effect in 2000. Following this reform, some city districts that used to belong to West Berlin were merged with city districts that used to belong to East Berlin. This reform makes it very difficult to maintain a strict distinction between Eastern and Western Germany along the old borders. Furthermore, it can be argued that the two parts of Berlin have become increasingly less distinct in economic and social terms since 1990. After taking all of these arguments into account, we opted against this approach.
- In the second option (**Option B**), we would have distinguished between East and West Berlin until 1999 only. Until this date, East Berlin would have been considered part of Eastern Germany, while West Berlin would have been seen as part of Western Germany. After 2000, when the reform of the districts took place, Berlin would have been excluded from the time series. Despite the fact that this is the approach the Federal Statistical Office of Germany (Statistische Bundesamt) uses in reporting fertility rates, we decided against this option as the administrative changes in 1999 were of little relevance for the population. Therefore, we did not want to apply the territorial adjustment at that point in time.
- In the third option (**Option C**), Berlin would have been considered part of Eastern Germany for the entire period after 1989. Geographically, this might appear to be the best solution. Furthermore, this approach is used in the compilation of other statistics, such as the labour market statistics (see also GROSS 2004). However, the population of West Berlin makes up quite a large share of the Eastern German population, and including West Berlin from 1990 on would artificially decrease the massive effect of the reunification on births trends in Eastern Germany. For this reason, we decided against this approach as well.
- We finally decided to provide separate data for Germany as a whole, for Eastern Germany (without Berlin), and for Western Germany (also without Berlin) (**Option D**) for the period since 1990. We chose this approach for two reasons. First, it provides

more flexibility compared to option C in which Berlin is included in Eastern Germany³
 Second, the cut-point in the data coincides with unification.⁴

Figure 1 Total Fertility Rate (TFR) in Eastern and Western Germany, 2001-2010



Source: Statistisches Bundesamt, own calculations

Ultimately, this led us to identify three post-unification geographical units: Western Germany, Eastern Germany, and Berlin. In creating these categories, we used contemporary Germany as our starting point. **Eastern Germany** refers to the eastern states of Brandenburg, Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt, and Thuringia; while **Western Germany** refers to the western states of Bavaria, Baden-Württemberg, Bremen, Hamburg, Hesse, Lower Saxony, North Rhine-Westphalia, Rhineland-Palatinate, Saarland, and Schleswig-Holstein. **Berlin** is treated separately.

For the period before unification, the territorial definitions correspond to the old territorial borders of the Federal Republic of Germany (FRG) and the German Democratic Republic (GDR). This means that, for this time period, West Berlin is considered part of West Germany and East Berlin is considered part East Germany. **East Germany** is used synonymously here for the German Democratic Republic (GDR), and **West Germany** for the Federal Republic of Germany (FRG) prior to the German reunification.

³ Berlin can be generated by subtracting the sum of Eastern and Western Germany from Germany as a whole.

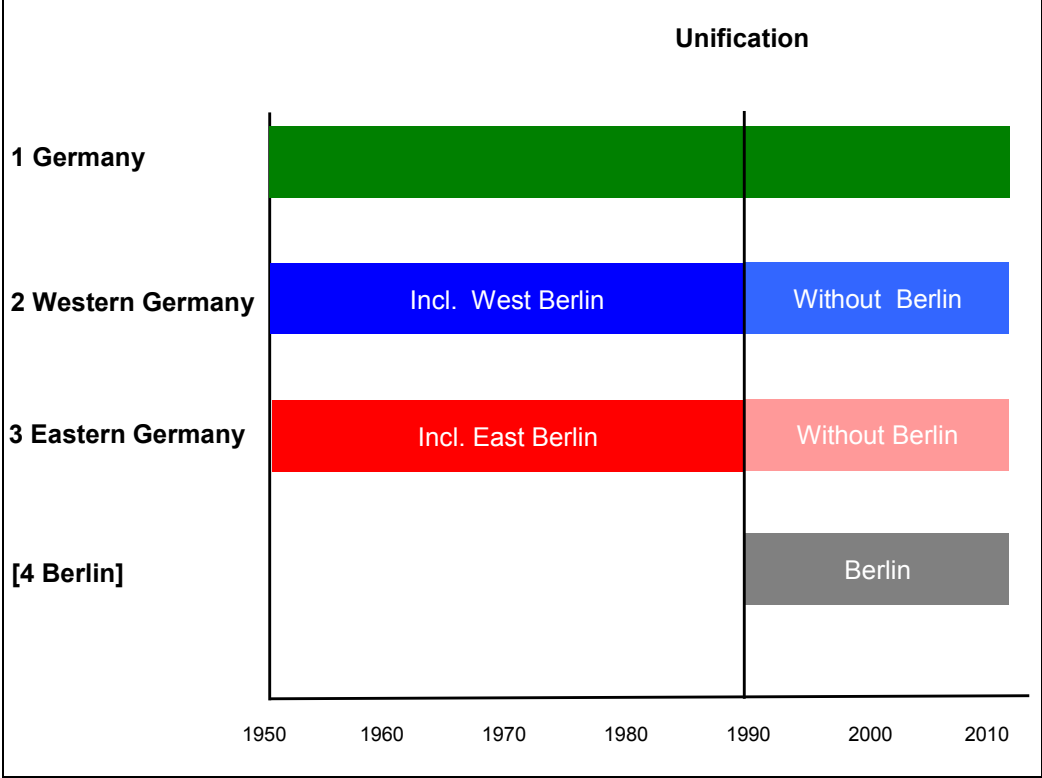
⁴ The drawback is, however, that there will be a break in the cohort data. In addition, Option B involves a break in the cohort data. However, this break is at a later point in time. Therefore, the cohort data from Option B span a longer time horizon without any breaks. Nevertheless, it was pointed out that excluding Berlin at unification from the total East-West time series results into a very “mild” break. Before unification, fertility in East Berlin did not differ significantly from fertility in the rest of East Germany. Omitting West Berlin from Western Germany does not affect the TFR much either because of the relatively small size of West Berlin.

The point at which we change the definitions is 1 January 1990. This means that, for the full year 1990, the data sheet for Western Germany no longer includes West Berlin, and the data sheet for Eastern Germany no longer includes East Berlin. This disregards the fact that unification did not occur until October 1990.

We also provide data for all of Germany for the time before 1990. During this time, Germany consisted of two separate political regimes with different fertility patterns. Given that we are dealing with two distinct entities, it might not appear to be very meaningful to calculate a joint fertility rate for pre-unification Germany. However, we decided that, because there may be cases in which the researcher needs to display long time trends, it could be useful to provide such data.

Figure 2 shows a visualisation of this classification scheme. Please note that we do not provide a separate data sheet for Berlin after 1989 because the numbers for Berlin can be generated by subtracting the sum of Eastern and Western Germany from Germany as a whole.

Figure 2 Territorial definitions



Note: No birth counts or fertility estimates are provided for Berlin as a separate unit in the HFD. However, data for Berlin (birth and population counts) for the period after 1989 can be obtained by calculating the difference between Germany as a whole and the sum of Eastern and Western Germany.

Table A1 in Appendix 2 provides the country and area codes that are used for the HFD. There are some territorial peculiarities regarding data availability for the time before 1956. For 1950-52, Saarland and West Berlin are not included in the fertility data for West Germany. For the years 1953-55, West Berlin is included, but Saarland is not. Due to these special issues, several area codes for West(ern) Germany were needed. Furthermore, we

were unable to provide birth rates for the time before 1956 because we do not have reliable population counts or death rates for this time period.

2 Birth count data

2.1 Coverage and completeness

Live births by the age of the mother

In Germany, births have mainly been recorded by the mother's year of birth. The age of the mother at birth is defined as the difference between the year of birth of the child and the year of birth of the mother (*Differenz zwischen Geburtsjahr des Kindes und Geburtsjahr der Mutter*), which corresponds to the age reached during the year (ARDY) (Caselli and Vallin 2006: 56). Data on live births by the mother's year of birth are available for East(ern) Germany for the period 1950-2013 and for West(ern) Germany for the period 1952-2013.

In East Germany for the period 1971-1989, births were published by the age in completed years (ACY) as well as by the annual number of live births by the mother's year of birth (ARDY) (Statistisches Bundesamt 1999b). Having access to these two datasets allowed us to recalculate the birth data for this period into Lexis triangles. However, because the distribution of births by the age in completed years (ACY) for the years 1971 and 1972 was slightly unusual⁵, detailed birth estimates by the age of the mother and the mother's year of birth are available for the period 1973-1989 only.

Since 2000, the Federal Statistical Office of Germany has also provided data on births by the age and the year of birth of the mother (Lexis triangles). However, these more detailed data showed a jagged line in the distribution of live births over time, with a number of births that was too high in the lower Lexis triangle, and a number of live births that was too low in the upper Lexis triangle at each age (for more details, please see Section 4.2 *Data quality issues*). For the HFD calculations, we therefore used the data that were provided in the ARDY format and split them into Lexis triangles using the standard HFD methodology.

Live births by the age of the mother and the birth order

The statistical office of the GDR collected data on births by the age of the mother and by the birth order. The period for which we were able to retrieve order-specific information on births is 1954-1989. Until 1988, the data are classified by the age reached during the year (ARDY). For the year 1989, the birth order data are available by the age in completed years (ACY).

It should be noted that, for the period 1954-1988, some small differences can be seen when we compare the data by the age of the mother and the birth order to the annual number of births by age. While the total number of births is the same in both files, the distribution of births across ages is slightly different. This applies to the years 1957, 1961-65, 1967-1968, and 1970. These differences are most likely caused by births with a missing birth order or a missing age of the mother. These births must have been redistributed by the Statistical Office using an algorithm of some kind for a number of years. However, there is no documentation available on this procedure. This problem affects fewer than 30 births per year. An exception is the year 1957, for which more than 400 births are classified differently in the two sources,

⁵ It is possible that when the procedure for birth registration was changed in 1971, some births were assigned the wrong age.

most of them in the age category 45+⁶. For the computations in the HFD, we use only the order-specific data. This means that, when we generated data on non-order-specific (total) births or birth rates for these particular years, we did it on the basis of the order-specific data.

The Federal Republic of Germany did not collect order-specific fertility data until 2008. The order of a birth was only recorded within the current marriage up to that date. In 2008, the registration procedure was modified and the collection of order-specific fertility data was initiated. However, in this first year, some registry offices (*Standesämter*) failed to provide correct data by birth order. Thus, reliable order-specific information did not become available until 2009. In the Human Fertility Database, order-specific data for Eastern Germany, Western Germany, and Germany as a whole are provided from 2009 onwards.

Live births by month

The annual number of live births by month is available for the period 1946-2013.

Detailed information about the birth data used in the HFD calculations is provided in Appendix 1. For more details on data availability, see Table A2 in Appendix 2.

3 Population count data

3.1 Population count data by age

The official population count for Germany at the end of 2013 was 80,767,463 (see Table 1). Roughly 20 percent of the population live in Eastern Germany (including Berlin). The annual age structure of women for West(ern) and East(ern) Germany, as well as for Germany as a whole, is estimated by using annual data on population size, deaths, and births by sex from the Statistisches Bundesamt. One challenge we faced was that there was a long inter-censal period between the censuses of 1981 and 1987 in East or respectively West Germany and the 2011 census that estimated for the first time after the reunification of 1990 the total population of Germany. Germany's official population estimates were strongly affected by the accumulated error which had progressively increased as time passed. The bias was confirmed by the outcome of the 2011 census which revealed that the population of Germany was smaller by about 1.5 million persons as compared to the old post-censal population estimates based on the censuses from the 1980s. The statistical offices of Germany decided not to publish adjusted inter-censal population estimates broken down by single ages for the complete inter-censal period. Therefore, we rely for the period 1988-2011 on an adjustment implemented by the Human Mortality Database project (see Appendix 2 in Scholz et al. 2016 for details).

As we explained in detail in Section 1.1, birth data for East and West Germany before 1990 include data for East and West Berlin, respectively. Starting in 1990, birth data on Berlin are excluded from the data files for East and West Germany. Territorial adjustment factors are

⁶ Although they looked implausible when compared to the age distributions in the neighbouring years, we made the decision to use the non-order specific data for that age category. The total number of births (285) was distributed over the birth orders proportionally to the birth order distributions in the neighbouring years. The differences between the total in the order-specific data, which was too high, and the total number of births in the non-order-specific data (463 cases) were classified as being of unknown age and birth order.

applied to account for the differences in the territorial coverage of the population for both East(ern) Germany and West(ern) Germany before and after 1990.

The calculation of the female population exposure is then conducted using the standard methods presented in the HFD Methods Protocol. This means we include monthly⁷ births data where available to compensate for seasonal variations in births and the resulting effects on estimated population exposure.

Table 1 Population size in East(ern) and West(ern) Germany (in millions)

	1950	1970	1980	1989**	1990**	2000**	2005**	2010**	2013
West Germany	50.3	61.0	61.7	62.6	--	--	--	--	--
East Germany	18.3	17.1	16.7	16.4	--	--	--	--	--
Western Germany*	--	--	--	--	61.4	64.3	64.8	64.4	64.8
Eastern Germany*	--	--	--	--	14.7	13.7	13.2	12.6	12.5
Berlin	--	--	--	--	3.4	3.3	3.2	3.3	3.5
Total	68.6	78.1	78.4	79.0	79.5	81.3	81.2	80.3	80.8

Notes: As of 31 December; *data excluding Berlin

Source: Statistisches Bundesamt (2011-1 and 2011-2)

** Data has been adjusted by an inter-censal adjustment of population estimates implemented by the Human Mortality Database team (see Appendix 2 in Scholz et al. 2016).

3.2 Population count data by age and parity

Data on the age distribution of women by the number of live-born children was not collected in the Federal Republic of Germany. For the GDR, such data are available from the 1981 census. However, as we are still in the process of checking the quality of these data for the purposes of fertility analysis, they are not used in the calculations.

4 Specific details

4.1 Definitions

Definition of a live birth

The birth data collected for the HFD include all live births (*Lebendgeborene*). When there is a multiple delivery, each child is counted separately. In Germany, the registry offices (*Standesämter*) collect information on births, which they then report to the statistical offices of the federal states (*Länder*). All births delivered within the borders of Germany are registered. If a German citizen gives birth to a child in a foreign country, the parents can apply for the child to be included in the register (Personenstandsgesetz § 36). For a definition of a live birth, see Table 2.

⁷ It should be noted that, in some cases, the monthly births data used as weightings for each cohort in the exposure calculation do not exactly correspond to the population for whom the exposure is calculated because the monthly births data from 1989 and earlier include Berlin, whereas the population data from 1990 onwards do not. It is, however, unlikely that the monthly births in Berlin follow a significantly different seasonal trend than those in the rest of Germany, and this small discrepancy can therefore be ignored.

Table 2: Definition of a live birth used by the Statistical Offices of GDR, FRG, and Germany

Territory	Period	Definition
GDR	1946-1956	natural breathing
	1957-1961	natural breathing or other indications of life (heartbeat, moving)
	1962-1978	complete expulsion from mother, breathing, and heartbeat
	1979-1989	complete expulsion from mother, heartbeat, and breathing, but irrespective of the cutting of the umbilical cord or the expulsion of the placenta
FRG	1946-1957	natural breathing
	1958-1989	complete expulsion from mother, heartbeat, or pulsating umbilical cord or natural breathing
Germany	1990-2013	complete expulsion from mother, heartbeat, or pulsating umbilical cord or natural breathing

Source: Statistisches Bundesamt (1999b): 8-9

Definition of age

In Germany, births have mainly been recorded by the mother's year of birth. The age of the mother at birth is defined as the difference between the year of birth of the child and the year of birth of the mother (*Differenz zwischen Geburtsjahr des Kindes und Geburtsjahr der Mutter*), which corresponds to the age reached during the year (ARDY).

In East Germany in the period 1971-1989, births were classified by the age in completed years (ACY) or by the age reached at the last birthday.

Definition of birth order

Birth order refers to the total number of (previously) live children born to a woman. When there is a multiple birth, each child is assigned a separate birth order.

4.2 Data Quality Issues⁸

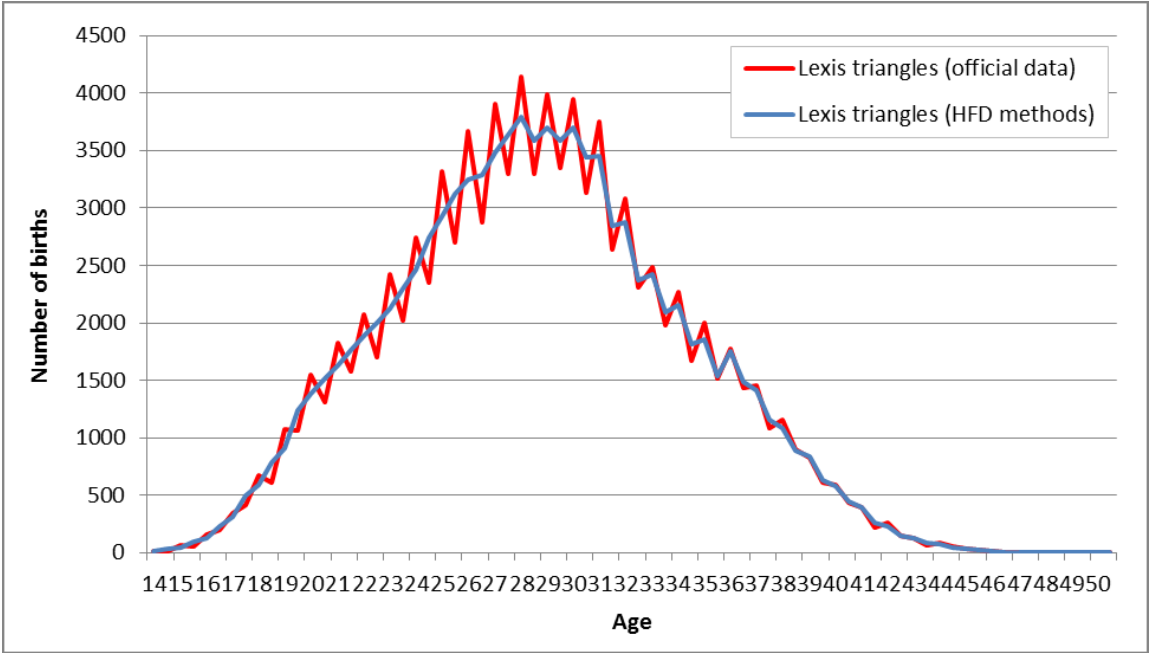
Jagged line in the data by triangles 2000-2008

The data for 2000-2008 received from the Statistical Office by Lexis triangles show a jagged line in the distribution of live births over time, with a number of births that is too high in the lower Lexis triangle, and a number of live births that is too low in the upper Lexis triangle at each age (see the red line on Figure 3). This is explained by the fact that the date of birth of the mother was not used in the calculation of the age in completed years (ACY) by the Statistical Office of Germany. Instead, it was calculated based only on information on the year and the month of her birth. For approximately 4% of the cases in which the mother and the child have their birthdays in the same month and the mother's birthday is after the child's birthday, the data from the Statistical Office give a wrong age at birth. For the HFD we

⁸ Section 4.2 on data quality issues was written with a contribution by Dora Kostova.

therefore use the data that were provided in the ARDY format and split it into Lexis triangles using the usual HFD methodology (see the blue line in Figure 3).

Figure 3 Births by Lexis triangles, East Germany, 2008



Source: HFD calculations; Statistisches Bundesamt, unpublished tabulations

4.3 Revision history

June 2016: Due to the implementation of the inter-censal adjustment for the period 1988-2011 (see section 3.1) and the introduction of corrected population estimates based on the 2011 census for 2012, there are minor changes in the birth estimates as well as fertility rates for the period 1988-2012 (for the TFR the maximum change is +0.03) as compared to the data release of January 20, 2015.

Acknowledgments

We are grateful to Miriam Hils for language editing.

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EAST(ERN) GERMANY (coded as DEUTE)

APPENDIX 1 DESCRIPTION OF DATA USED FOR LEXIS DATABASE

BIRTHS

Period	Type of data	Age scale	Birth order	Ref Codes
1956-1959	Annual number of live births by mother's year of birth and birth order (vertical parallelograms)*	14,15 ...44, 45+, unknown	1, 2,..., 9, 10+ unknown	4
1960-1988	Annual number of live births by mother's year of birth and birth order (vertical parallelograms)	14,15 ...44, 45+, unknown	1, 2,..., 9, 10+ unknown	5
1989	Live births by age of mother and birth order (Lexis squares)	≤14,15...44, 45+, unknown	1, 2,..., 9, 10+ unknown	5
1973-1989	Annual number of live births by age of mother and mother's year of birth (Lexis triangles)	14,15 ...44, 45+, unknown	TOT	10
1990-1999	Annual number of live births by mother's year of birth (vertical parallelograms)**	≤13,14...48, 49+, unknown	-	2
2000-2008	Annual number of live births by mother's year of birth (vertical parallelograms)*	≤13,14... 49, 50+, unknown	-	19
2009-2010	Live births by mother's year of birth and birth order (vertical parallelograms)	≤13,14...49, 50+, unknown,	1,2...8,9+	8
2011-2013	Live births by mother's year of birth and birth order (vertical parallelograms)	≤13,14...49, 50+, unknown,	1,2...5,6+	8
1946-2013	Annual number of live births by month	-	-	7

Originally, the data were classified by age reached during the year (ARDY), which equals the difference between the calendar year when the birth occurred and mother's year of birth (see Section 2.1 and also Table A2). This data format is called vertical Lexis parallelograms. In the HFD input file for births, however, we follow a different practice and use the definition of age at the beginning of the year in the case of data sorted by vertical parallelograms. Thus it is possible to see different age scales (with one year difference) shown for the same data in Appendix 1 and Table A2.

** For 1990-1999 the annual number of live births by age reached during the year (ARDY, which is calendar year minus mother's year of birth) is available from the Statistical Office of Germany only for ages 15 to 49; there is no information about births at ages ≤14 and 50+. We included the difference between the total annual number of births and the sum of this data in the category of data with unknown age of mother. According to the Statistical Office, this difference describes the number of births born to mothers younger than 15 and older than 49. In order to distribute these births realistically between these two age categories, the births were split according to the proportion of births at age 15 to the number of births at age 49 and assigned to the ages ≤14 and 50+ respectively. (Recall that the age scale in the input file is modified. See the note above.)

FEMALE POPULATION: Exposure by age and year of birth

The female exposure population by calendar year, age, and year of birth is estimated according to the methods protocol of the Human Mortality Database (HMD), available at <http://www.mortality.org> by using data on population size, deaths and live births by year and sex provided by Statistical Office of Germany (Statistisches Bundesamt). For the period 1988-2011 an inter-censal adjustment of the published population estimates has been applied (see Appendix 2 in Scholz et al. 2016 for details).

DESCRIPTION OF DATA USED FOR POPULATION ESTIMATES

DEATHS

Period	Type of data	Age grouping	Comments	Ref Codes
1956-1989	Death counts by age and sex	0,1...99,100+	-	13
1990-1999	Death counts by age and sex	0,1...99,100+	-	14
2000-2013	Death counts by age, year of birth and sex	0,1...107,108+	-	15

POPULATION

Period	Type of data	Age grouping	Comments	Ref Codes
31.12.1955-31.12.1963	Population counts by age and sex	0,1...89,90+	-	16
31.12.1964	Census counts by age and sex	0,1...99,100+	-	17
31.12.1965-31.12.1969	Population counts by age and sex	0,1...98,99+	-	16
1.1.1971	Census counts by age and sex	0,1...99,100+	-	17
31.12.1971-31.12.1980	Population counts by age and sex	0,1...98,99+	-	16
31.12.1981	Census counts by age and sex	0,1...99,100+	-	17
31.12.1982-31.12.1988	Population counts by age and sex	0,1...98,99+	From 31.12.1987 on adjusted by a procedure described in Appendix 2 of Scholz et al. (2016)	20
31.12.1988-31.12.2013	Population counts by age and sex	0,1...94,95+	Minor corrections were implemented also in order to make data consistent with data in HMD. For the period 1988 until 2011 adjusted by a procedure described in Appendix 2 of Scholz et al. (2016)	21

BIRTHS

Period	Type of data	Comments	Ref Codes
1956-2013	Live births by sex	-	11, 12

APPENDIX 2 DATA AVAILABILITY FOR EAST(ERN) GERMANY

Table A1: Area and country codes used in the HFD input data files for Eastern Germany (including the GDR)

Country Code	Area Code	Territorial Definition
DEUTE	1	East Germany (excluding East Berlin)
DEUTE	2	Eastern Germany (including Berlin)

Table A2: Availability of data on live births, Eastern Germany (country code: DEUTE)

Period	Type of data	Age scale	Area code	Birth order	Ref Codes
1952-1989	Annual number of live births by mother's year of birth (vertical parallelograms)*	15,16 ...45, 46+, unknown	2	no	1
1954-1959	Annual number of live births by mother's year of birth and birth order (vertical parallelograms)*	15,16 ...45, 46+, unknown	2	1, 2,..., 9, 10+ unknown	4
1960-1988	Annual number of live births by mother's year of birth and birth order (vertical parallelograms)	15,16 ...45, 46+, unknown	2	1, 2,..., 9, 10+ unknown	5
1989	Annual number of live births by mother's year of birth (vertical parallelograms)*	15,16 ...45, 46+, unknown	2	no	5
1989	Annual number of live births by age of mother and birth order (Lexis squares)	≤14,15...44,45+, unknown	2	1, 2,..., 9, 10+ unknown	5
1971-1989	Annual number of live births by age of mother (Lexis squares)	≤14,15...44, 45+, unknown	2	no	9
1973-1989	Annual number of live births by age of mother and mother's year of birth (Lexis triangles)	14,15 ...44, 45+, unknown	2	no	10
1990-1999	Annual number of live births by mother's year of birth (vertical parallelograms)*	14,15...47, 48, unknown	1	no	2
2000-2008	Annual number of live births by mother's year of birth (vertical parallelograms)*	≤14,15...50, 51+, unknown,	1	no	3
2000-2008	Annual number of live births by age of mother and mother's year of birth (Lexis triangles)	≤14,15...49, 50+, unknown,	1	no	3
2009-2010	Live births by mother's year of birth and birth order (vertical parallelograms)	≤14,15...50, 51+, unknown,	1	1,2...8,9+	8
2011-2013	Live births by mother's year of birth and birth order (vertical parallelograms)	≤14,15...50, 51+, unknown,	1	1,2...5,6+	8
1946-1989	Live births by month	-	2	no	7
1990-2013	Live births by month	-	1	no	7

Originally, the data were classified by age reached during the year (ARDY), which equals the difference between the calendar year when the birth occurred and mother's year of birth (see Section 2.1 and also Table A2). This data format is called vertical Lexis parallelograms. In the HFD input file for births, however, we follow a different practice and use the definition of age at the beginning of the year in the case of data sorted by vertical parallelograms. Thus it is possible to see different age scales (with one year difference) shown for the same data in Appendix 1 and Table A2.

Table A3: Female population: Distribution by age and parity

Reference Date	Type of data	Age scale	Year of birth, range	Parity	Ref Code
31.12.1981*	Women by age, year of birth and parity	14,15...80, 80+	1967...1901	0,1...7,8+	6

* We are still in the process of checking the quality of the census data, and therefore they are not used in the calculations.