

Structure of the Input Database

The Input Database (InputDB) contains three types of data: deaths, population, and births. For each population, we have 8 different files (9 where births-by-month data are available):

- XXXdeath.txt (for death data),
- XXXpop.txt (for population data),
- XXXbirth.txt (for birth-by-sex data),
- XXXbirthbymonth.txt (for birth-by-month data),
- XXXref.pdf (references),
- XXXnote.txt (for specific notes),
- XXXcom.pdf (for background and documentation),
- XXXtadj.txt (for territorial adjustment factors if relevant), and
- XXXreadme.txt (with a descriptive identifier for this population).

where XXX is a population code (3-7-digits, all character values must be uppercase – See Appendix I for the list of population codes used in the HMD). The first three digits represent a 3-letter country code (e.g., FRA, USA). An optional fourth digit identifies the national population, where “T” denotes the total population (i.e., including both military and civilian) and “C” denotes the civilian population. In cases where this information is known or unclear (e.g., not consistent across deaths and population estimates), the fourth digit may be omitted (if the data represent the national population) or indicated by “_” (if the data represent a subpopulation identified by the 5th-7th digits). The fifth, sixth, and seventh digits may be used to identify a subpopulation (e.g., region/province, racial/ethnic group) as needed. This code may be any combination of up to three numbers of uppercase characters. For example,

NOR	identifies the national population of Norway (unknown/uncertain whether military are included)
FRAT	identifies the total national population of France
FRAC	identifies the civilian national population of France
NZL_NP	identifies the national population of New Zealand
NZL_MA	identifies the Maori population of New Zealand

The Background and Documentation file (XXXcom.pdf) is in portable document format (.pdf). All other files are in ASCII format. Each data file (XXXdeath.txt, XXXpop.txt, XXXbirth.txt, XXXbirthbymonth.txt and XXXtadj.txt) contains standard headings (first line), which represent field identifiers. In these files each line (record) is defined independently from other records (i.e., each record contains all necessary information, and the sequence of the records has no significance). Each record is unique (i.e., there are no duplicate records). We use CRLF ("r\n") combination of characters as a record delimiter and a comma (",") as the field delimiter. Missing values are coded as a single dot ("."). Optionally, the data files may contain a number of spaces to improve text file readability. The spaces have no other function.

The minimum number of input data files necessary to produce HMD series for any country is three: the death file, the population file, and the birth-by-sex file. Territorial adjustment factors are only necessary if the country has experienced any kind of change in borders or reference population (e.g. a switch from *de jure* to *de facto* population) over the years for which input data are provided. The birth-by-month file is only to be provided if birth-by-month data are available for any year. Births by month are a very important component for the calculation of population exposures (see the Methods Protocol for details) and should absolutely be included if they are available. However, for many countries, the statistical information on the distribution of births by month is not available, in which case this file will not exist.

In addition to the input data file, four text files must be systematically provided and updated: the short description file (XXXreadme), the Background and Documentation file (XXXcom), the Reference file (XXXref) and the Note file (XXXnote).

Description of formats:

1. Deaths

File name: XXXdeath.txt

Heading:

PopName, Area, Year, YearReg, YearInterval, Sex, Age, AgeInterval, Lexis, RefCode, Access, Deaths, NoteCode1, NoteCode2, NoteCode3, LDB

For each death count, we have one record. Each death count (field "*Deaths*") is determined by population code (field "*PopName*"), geographical coverage (field "*Area*"), calendar year (field "*Year*"), year of registration ("*YearReg*"), the length of year interval of the Lexis element (field "*YearInterval*"), sex (field "*Sex*"), age (field "*Age*"), the length of age interval (field "*AgeInterval*"), the shape of Lexis element (field "*Lexis*"), reference code (field "*RefCode*"), and type of access (field "*Access*"). Each record also contains three fields that link to specific comments ("*NoteCode1*", "*NoteCode2*", and "*NoteCode3*"). The final field ("LDB") indicates whether the data are used to create the Lexis database. Note: If this file includes death counts for a particular calendar year, but an observation is omitted for a particular sex, age, and lexis combination, then for the purposes of calculating mortality estimates, we assume there were no deaths for this group.

The format of the fields is as follows:

- 1.1)** Population code (3-7-digits). Same code ("XXX") as in the file name.
- 1.2)** Area (2-digit). For example: 01, 10, 20, **This field serves to reflect territorial (or population) coverage.**
- 1.3)** Calendar year (4-digit). Year in which the deaths occurred.
- 1.4)** Year of registration (4-digit). In recent years, some countries (e.g., Finland) have reported deaths registered in current year, but which actually occurred earlier in time. In such cases, *Year*, *Age*, etc. are coded to refer to the date of occurrence, while *YearReg* is set to the registration year. If no distinction is made between year of occurrence and year of registration¹, then *Year* = *YearReg*.
- 1.5)** The length of the year interval of the Lexis element (1- or 2-digit). For example: 1, 2, 3, 5, 10.
- 1.6)** Sex (1-char). The character 'm' denotes males, 'f' denotes females, and 'b' indicates both.
- 1.7)** Age (1-, 2- or 3-digit or 3-char). For age groups, the value is always equal to the lower age limit, and TOT² and UNK stand for total and unknown ages, respectively.
- 1.8)** The length of the age interval (1- or 2-digit or '+' for open age interval). For example: 1, 2, 3, 5, 10, +.

¹ Recording deaths by year of occurrence deaths is a new trend in statistical publications. In earlier years, deaths were recorded only by year of registration.

² The total is always taken from the original data. It may be different from the total yielded by summing up age specific counts.

- 1.9)** Lexis element (2-char). This field denotes the shape of the Lexis element, where:
TL=lower triangle, TU=upper triangle, RR=rectangle, VV=parallelogram with vertical left and right sides (i.e., period-cohort), VH=parallelogram with horizontal upper and lower sides (i.e., age-cohort); RV=Same as VV except also includes TL for the first age in the interval (e.g., cohorts aged 0-4 on Dec 31st—includes those born in the current calendar year).
- 1.10)** Reference code (numeric, no fixed-length). A numeric code that identifies a data source provided in the file XXXref.pdf (see description for XXXref.pdf).
- 1.11)** Access (1-char). This field indicates the confidentiality/accessibility of the data ('C' - confidential, 'O' – publicly accessible, 'U' – unknown).
- 1.12)** Deaths (numerical field, no fixed length). Number of deaths.
- 1.13)** Note codes (numeric, no fixed length). These three fields ("NoteCode1", "NoteCode2", "NoteCode3") link to specific notes contained in the file "XXXnote.txt". These fields may be empty (denoted by a single dot '.').
- 1.14)** LDB (numeric, 0/1). This field (“LDB”) is coded “1” if the data are used to create the Lexis database and coded “0” if not.

Example: Total National Population of France

<i>PopName</i>	<i>Area</i>	<i>Year</i>	<i>YearReg</i>	<i>YearInterval</i>	<i>Sex</i>	<i>Age</i>	<i>AgeInterval</i>	<i>Lexis</i>	<i>RefCode</i>	<i>Access</i>	<i>Deaths</i>	<i>NoteCode1</i>	<i>NoteCode2</i>	<i>NoteCode3</i>	<i>LDB</i>		
FRATNP,	30,	1907,	1907,		1,	m,	0,		1,	TL,	10,	C,	43118,	1,	.,	1	
FRATNP,	30,	1907,	1907,		1,	m,	0,		1,	TU,	11,	C,	16110,	2,	3,	1	
FRATNP,	30,	1907,	1907,		1,	m,	1,		1,	TL,	10,	C,	5822,	.,	.,	1	
FRATNP,	30,	1907,	1907,		1,	m,	1,		1,	TU,	10,	C,	4806,	1,	.,	1	
.....	1	
FRATNP,	30,	1907,	1907,		1,	m,	123,		+,	TL,	5,	C,	0,	2,	5,	10,	1
FRATNP,	30,	1907,	1907,		1,	m,	UNK,		.,	.,	10,	C,	0,	.,	.,	1	
FRATNP,	30,	1907,	1907,		1,	m,	TOT,		.,	.,	10,	O,	415491,	.,	.,	1	

2. Population

File name: XXXpop.txt

Heading:

PopName, Area, Sex, Age, AgeInterval, Type, Day, Month, Year, RefCode, Access, Population, NoteCode1, NoteCode2, NoteCode3, LDB

Each population size value (field "Population") is determined by population code (field "PopName"), geographic coverage (field "Area"), sex (field "Sex"), age group (field "Age"), the length of age interval (field "AgeInterval"), type code (field "Type"), the day, month, and calendar year corresponding to the date of the census count or population estimate (fields "Day", "Month", "Year", respectively), source of data (field "RefCode"), and type of access (field "Access"). Each record also contains three fields that link to specific comments ("NoteCode1", "NoteCode2", and "NoteCode3"). The final field ("LDB") indicates whether the data are used to create the Lexis database.

The format of the fields is as follows:

- 2.1) Population code (3-7-digits, the same as for deaths).
- 2.2) Area (2-digit, the same as for deaths).
- 2.3) Sex (1-char, the same as for deaths).
- 2.4) Age (1-, 2- or 3-digit or 3-char, same as for deaths). Note: If Type='B', then this field represents age at the end of the calendar year in which the census occurred (i.e., year of census minus year of birth).
- 2.5) The length of age interval (1- or 2-digit or '+', same as for deaths).
- 2.6) Type (1-char). The character 'C' denotes census count, 'O' denotes official estimates by statistical offices, 'R' denotes register population counts, 'E' indicates other estimates, and 'B' denotes census count classified by year of birth (not age).
- 2.7) Day (2-digit). Day corresponding to the date of the census or population estimate. Possible values: 01, 02, ..., 31
- 2.8) Month (2-digit). Month corresponding to date of the census or population estimate. Possible values: 01, 02, ..., 12

- 2.9) Year (4-digit). Year corresponding to the date of the census or population estimate.
- 2.10) Reference code (numeric, the same as for deaths).
- 2.11) Access. (1-char, the same as for deaths).
- 2.12) Population (numerical field, no fixed length). Population size.
- 2.13) Note codes (numeric, the same as for deaths)
- 2.14) LDB (numeric, 0/1). This field (“LDB”) is coded “1” if the data are used to create the Lexis database and coded “0” if not.

Example: Total National Population of France

PopName, Area, Sex, Age, AgeInterval, Type, Day, Month, Year, RefCode, Access, Population, NoteCode1, NoteCode2, NoteCode3, LDB

FRATNP,	30,	m,	0,	1,	E,	01,	01,	1899, 10,	O,	363100,	1,	..,	..,	1
FRATNP,	30,	m,	1,	1,	E,	01,	01,	1899, 10,	O,	350100,	2,	3,	..,	1
FRATNP,	30,	m,	2,	1,	E,	01,	01,	1899, 10,	O,	345800,	2,	5,	10,	1
.....	1
FRATNP,	30,	m,	100,	+,	E,	01,	01,	1899, 10,	C,	10,	1,	..,	..,	1

3. Births by sex

File name: XXXbirth.txt

Heading: *PopName, Area, Sex, Year, YearReg, Access, Births, NoteCode1, NoteCode2, NoteCode3, RefCode, LDB*

Each birth count (field "Births") is specified by population code (field "PopName"), geographical coverage (field "Area"), sex (field "Sex"), calendar year (field "Year"), year of registration (field "YearReg"), reference code (field "RefCode") and type of access (field "Access"). Each record also contains three fields that link to specific comments ("NoteCode1", "NoteCode2", and "NoteCode3"). The final field ("LDB") indicates whether the data are used to create the Lexis database.

The format and order of the fields is as follows:

- 3.1)** Population code (3-7-digit, the same as for deaths).
- 3.2)** Area (2-digit, the same as for deaths).
- 3.3)** Calendar year (4-digit). Year in which the births occurred.
- 3.4)** Year of registration (4-digit, the same as for deaths). In the recent years, some countries have reported births that occurred in an earlier year with the statistics for the current year. In such cases *Year*, *Age*, etc. are coded to refer to the date of occurrence, while *YearReg* is set to the registration year. If no distinction is made between year of occurrence and year of registration, then *Year* = *YearReg*.
- 3.5)** Sex (1-char, the same as for deaths).
- 3.6)** Births (numerical field, no fixed length). The number of live births.
- 3.7)** Access. (1-char, the same as for deaths).
- 3.8)** Note codes (numeric, the same as for deaths)
- 3.9)** Reference code (numeric, the same as for deaths).
- 3.10)** LDB (numeric, 0/1). This field ("LDB") is coded "1" if the data are used to create the Lexis database and coded "0" if not.

Example: Total National Population of France

<i>PopName</i> ,	<i>Area</i> ,	<i>Year</i> ,	<i>YearReg</i> ,	<i>Sex</i> ,	<i>Births</i> ,	<i>Access</i> ,	<i>NoteCode1</i> ,	<i>NoteCode2</i> ,	<i>NoteCode3</i> ,	<i>RefCode</i> ,	<i>LDB</i>
FRATNP,	30,	1899,	1899,	m,	435485,	O,	1,	.,	.,	11,	1
FRATNP,	30,	1900,	1900,	m,	425139,	O,	2,	3,	.,	10,	1
FRATNP,	30,	1901,	1901,	m,	440012,	O,	2,	5,	10,	11,	1
FRATNP,	30,	1902,	1902,	m,	434410,	O,	1,	.,	.,	10,	1
.....	1

4. Births by month

File name: XXXbirthbymonth.txt

Heading: *PopName, Area, Year, YearReg, Month, Births, Access, NoteCode1, NoteCode2, NoteCode3, RefCode, LDB*

Each birth count (field "Births") is specified by population code (field "PopName"), geographical coverage (field "Area"), calendar year (field "Year"), year of registration (field "YearReg"), month of occurrence (field "Month"), reference code (field "RefCode") and type of access (field "Access"). Each record also contains three fields that link to specific comments ("NoteCode1", "NoteCode2", and "NoteCode3"). The final field ("LDB") indicates whether the data are used to create the Lexis database.

The format of the fields is as follows:

- 4.1)** Population code (3-7-digit, the same as for deaths).
- 4.2)** Area (2-digit, the same as for deaths).
- 4.3)** Calendar year (4-digit). Year in which the births occurred.
- 4.4)** Year of registration (4-digit, the same as for deaths). In the recent years, some countries have reported births that occurred in an earlier year with the statistics for the current year. In such cases *Year*, *Age*, etc. are coded to refer to the date of occurrence, while *YearReg* is set to the registration year. If no distinction is made between year of occurrence and year of registration, then *Year* = *YearReg*.
- 4.5)** Month of occurrence (numeric, 1-12 digit plus TOT for total births in year)
- 4.6)** Births (numerical field, no fixed length). The number of live births.
- 4.7)** Access (1-char, the same as for deaths).
- 4.8)** Note codes (numeric, the same as for deaths)
- 4.9)** Reference code (numeric, the same as for deaths).
- 4.10)** LDB (numeric, 0/1). This field ("LDB") is coded "1" if the data are used to create the Lexis database and coded "0" if not.

NB: Monthly births are typically copied from the country data in the Human Fertility Database. These data contain an additional column, *VitalStat*. If present in the HMD Input file, the column is ignored by HMD calculations.

Example: Total National Population of France

<i>PopName</i> ,	<i>Area</i> ,	<i>Year</i> ,	<i>YearReg</i> ,	<i>Month</i> ,	<i>Births</i> ,	<i>Access</i> ,	<i>NoteCode1</i> ,	<i>NoteCode2</i> ,	<i>NoteCode3</i> ,	<i>RefCode</i> ,	<i>LDB</i>
FRATNP,	30,	1899,	1899,	1,	4354,	O,	1,	.,	.,	10,	1
FRATNP,	30,	1899,	1899,	2,	4251,	O,	2,	3,	.,	10,	1
FRATNP,	30,	1899,	1899,	3,	4400,	O,	2,	5,	10,	10,	1
FRATNP,	30,	1899,	1899,	4,	4344,	O,	1,	.,	.,	10,	1
.....	1
FRATNP,	30,	1899,	1899,	TOT,	160876,	O,	1,	.,	.,	10,	1

5. Notes

File name: XXXnote.txt

This file contains specific notes pertaining to individual data points. These notes are identified by a note code that links to specific data points in the data files. The first line of each record contains a code which is to be the same as *NoteCode1*, *NoteCode2*, and *NoteCode3* in the data files. Lines following the note code contain specific notes (which may be written in a free form, but shouldn't include the blank lines). Blank lines are used for separating the records. Each subpopulation within a country must have a XXXnote.txt file, but it is left to the discretion of the country specialist whether those files are unique (containing only information for that particular subpopulation) or whether they are simply copies of one master file (containing information for all subpopulations within that country) with different filenames (e.g., NZL_NMnote.txt, NZL_MAnote.txt).

Example:

1

This number is probably not correct, but we don't have other data

2

For this year and age we need additional information

.....

6. References

File name: XXXref.pdf

This file contains the description of sources. Each data source has a corresponding record in this file. Each record in this file is separated by a blank line. Each subpopulation within a country must have a XXXref.pdf file, but it is left to the discretion of the country specialist whether those files are unique (containing only information for that particular subpopulation) or whether they are simply copies of one master file (containing information for all subpopulations within that country) with different filenames (e.g., NZL_NMref.pdf, NZL_MAref.pdf). Each record contains the following fields:

- *RefCode*: Reference code (the same as in the data files)
- *Source*: Full (or as full as possible) reference to the source
- *Comments*: First, list the type of data (e.g., deaths, births, census counts, population estimates) using the following format: “(Deaths, Births by sex)” and the corresponding

year(s). This field may also contain comments from the country specialist about this submission.

- *Date*: Date of incorporation into Database (format: dd.mm.yyyy)
- *Reference Person*: Person who added this entry to the reference file

The name of each field is included in the record on a separate line.

Example:

RefCode

10

Source

Vallin, J. and F. Meslé. (2001). *Tableau I-C-1: Population par sexe et âge (de 0 à 100 ans), au 1 janvier, de 1899 à 1998, avec deux estimations selon le territoire pour les années de changement de territoire [revised post-publication]*. In: *Tables de mortalité françaises pour les XIXe et XXe siècles et projections pour le XXIe siècle*. Paris: Institut national d'études démographiques.

Comments

(Population Estimates) Data for population estimates 1899-1998. Data received on CD-ROM accompanying publication.

Date

20.07.2000

Reference Person

VV (VV@e-mail.com)

Refcode

1

Source

Instituto Nazionale di Statistica (ISTAT). (1995). *Tavola 2.1 - Popolazione residente per sesso, stato civile e singolo di età. Pp. 73-74 in: Capitolo 2 - L'Italia Oggi, Immagini del Paese, Popolazione e Abitazioni, Fascicolo Nazionale Italia, 13th Censimento Generale Della Popolazione e Delle Abitazioni, 20 ottobre 1991. Roma: ISTAT.*

Comments

(Census counts) Data from 1991 census. Received data in electronic file from Graziella Caselli (originally sent to Kirill Andreev). Hard copies of published tables from University of California, Berkeley Library.

Date

10.11.2000

Reference Person

RR (RR@e-mail.com)

The connection between notes, references, and data records is presented in Figure 1.

Figure 1. Connection between files in the InputDB

File ..\InputDB\FRATNPdeath.txt

PopName,Area, Year, YearReg, YearInterval, Sex, Age, AgeInterval, Lexis, RefCode, Access, Deaths, NoteCode1, NoteCode2, NoteCode3 LDB

PopName	Area	Year	YearReg	YearInterval	Sex	Age	AgeInterval	Lexis	RefCode	Access	Deaths	NoteCode1	NoteCode2	NoteCode3	LDB	
FRATNP	30	1907	1907		1	m	0	1	TL	10	C	43118	1	1
FRATNP	30	1907	1907		1	m	0	1	TU	11	C	16110	2	3	..	1
FRATNP	30	1907	1907		1	m	1	1	TL	10	C	5822	1
FRATNP	30	1907	1907		1	m	1	1	TU	10	C	4806	1	1
.....	1
FRATNP	30	1907	1907		1	m	123	+	TL	5	C	0	2	5	10	1
FRATNP	30	1907	1907		1	m	UNK	10	C	0	1
FRATNP	30	1907	1907		1	m	TOT	10	O	415491	1

File ..\InputDB\FRAref.pdf

RefCode
10
Source
Vallin, J. and F. Meslé. (2001). Tableau I-B-1: Décès par sexe, âge (de 0 à 122 ans + âge non déclaré) et année de naissance (avant ou après l'anniversaire), de 1899 à 1997 [on CD-ROM]. In: Tables de mortalité françaises pour les XIXe et XXe siècles et projections pour le XXIe siècle. Paris: Institut national d'études démographiques (INED).
Comments
(Deaths) Data for deaths 1899-1938.
Date
20.07.2000
Reference Person
VV (VV@e-mail.com)

RefCode
11
Source

File ..\InputDB\FRAnote.txt

1
This number is probably not correct, but we don't have other data
2
Age misreporting is possible here

7. Background and Documentation

File name: XXXcom.pdf

This file is constructed by the country specialist and made available to users. For a given population, the Background and Documentation for the primary population (e.g., Total National Population) should contain the information that pertains to the population as a whole (e.g., completeness of coverage, data quality, historical information, border changes, etc.). The Background and Documentation for *subpopulations* should refer the user to the “main” Background and Documentation, but provide any additional information that is specific to that subpopulation. Information related to specific data points should be included in the Notes file rather than the Background and Documentation file. For example, comments regarding the source of data from country C for calendar year Y are given in "Comments" field of the reference file. However, comments regarding comparative characteristics of different data sources for year Y of country C should be stored in XXXcom.pdf. This file contains all (important) information that is known to country specialist. Nevertheless, it cannot be used as a full description of statistical system or history of the country.

8. Territorial adjustment factors

File name: XXXtadj.txt

Heading: *PopName, Year, Age, Area1, Area2, Sex, RefCode, Access, Type, Value, NoteCode1, NoteCode2, NoteCode3*

Each territorial adjustment factor (field "Value") is specified by population code (field "PopName"), calendar year (field "Year"), age (field "Age"), geographical coverage before (field "Area1") and after (field "Area2") territorial changes, sex (field "Sex"), reference code (field "RefCode"), type of access (field "Access"), and type of factor (field "Type"). Each record also contains three fields that link to specific comments ("NoteCode1", "NoteCode2", and "NoteCode3"). Changes in population coverage (e.g., a change from covering the *de facto* population to the *de jure* population) may also be treated as a territorial change for purposes of making calculations.

The format of the fields is as follows:

- 7.1) Population code (3-7-digit, the same as for deaths).

- 7.2) Calendar year (4-digit). Year for which this adjustment factor was calculated.
- 7.3) Age (1-, 2- or 3-digit). Age for which this adjustment factor was calculated. If the adjustment factor does not depend on age (e.g., ratio of births), this field should be coded as a single dot (".").³
- 7.4) Area1 (2-digit). This field indicates the code of the territorial (or population) coverage **before** territorial changes.
- 7.5) Area2 (2-digit). This field indicates the code of the territorial (or population) coverage **after** territorial changes.
- 7.6) Sex (1-char, the same as for deaths). The character 'm' denotes males, 'f' denotes females, and 'b' indicates both sexes.
- 7.7) Reference code (numeric, the same as for deaths).
- 7.8) Access (1-char). This field indicates the confidentiality/accessibility of data ('C' - confidential, 'O' – publicly accessible, 'U' – unknown).
- 7.9) Type (2-char). Type of factor: Rb = ratio of births, Vx = ratio of the population size at a specific age, Rd=ratio of the death counts at a specific age. See Appendix D of the Methods Protocol for details.
- 7.10) Value (real number). The value of the adjustment factor. The ratio of births is defined as $R_b(t) = \frac{B^+(t)}{B^-(t)}$, where $B^+(t)$ is number of births in the territory denoted by the *Area2* code (after the change), and $B^-(t)$ is number of births in the territory denoted by the *Area1* code (before the change). Similarly, the ratio of population size is defined as $V(x,t) = \frac{P^+(x,t)}{P^-(x,t)}$, where $P^+(x,t)$ is the population in the territory denoted by the *Area2* code and $P^-(x,t)$ is the population in the territory denoted by the *Area1* code. Thus, if a territory was added in *Year=t*, both $R_b(t)$ and $V(x,t)$ should be greater than one, whereas if a territory was lost, these factors should be less than one. [Note: The data (births/population) for both the numerator and denominator come from the same

³ For Vx factors, there should be a record for each single year of age (0 to 130). Nonetheless, the values may be the same for a range of ages. For example, at older ages (e.g., 90+) it is usually better to calculate the Vx factor based on aggregating across the open age interval in order to smooth out random variation. In this case, the value would be the same for ages 90, 91,...130.

year (preferably the year of the territorial change); it is just the definition of the territory that differs.] The ratio of death counts, $R_d(x,t)$, is used in special cases where a change in population coverage (for purposes of counting deaths) occurs in the middle of a year (e.g., see Appendix 2 of the Background and Documentation file for New Zealand for a discussion of the change in the definition of ethnicity on September 1, 1995). This adjustment factor is needed to account for an increase (or decrease) in deaths resulting from the mid-year change in definition. It is calculated according to the following formula:

$$R_d(x,t) = \frac{\bar{M}(x,t-1,t+1)}{M(x,t)}$$

where $M(x,t)$ is the actual age-specific mortality rate for year in which the change occurs (where deaths are based partly on the old and partly on the new definition, but population estimates represent the old definition); $\bar{M}(x,t-1,t+1)$ is the average of the age-specific mortality rates for the prior year ($t-1$) and the subsequent year ($t+1$). By applying this ratio to the original death count in year t , we get the approximate number of deaths based on the old definition of population coverage

7.11) Note codes (numeric, the same as for deaths).

Example: Total National Population of France

<i>PopName</i> ,	<i>Year</i> ,	<i>Age</i> ,	<i>Area1</i> ,	<i>Area2</i> ,	<i>Sex</i> ,	<i>RefCode</i> ,	<i>Access</i> ,	<i>Type</i> ,	<i>Value</i> ,	<i>NoteCode1</i> ,	<i>NoteCode2</i> ,	<i>NoteCode3</i>
FRATNP,	1899,	..,	20,	30,	m,	1,	O,	Rb,	1.007,	1,	..,	.
FRATNP,	1914,	..,	30,	40,	m,	2,	O,	Rb,	0.811,	1,	..,	.
FRATNP,	1914,	25,	30,	40,	m,	11,	O,	Vx,	0.824,	2,	5,	10
FRATNP,	1914,	26,	30,	40	m,	11,	O,	Vx,	0.824,	1,	..,	.
.....

9. Descriptive Identifier

File name: XXXreadme.txt

The first line of this file contains a descriptive identifier for the population (i.e., name of country or area, type of population, and population subgroup) that will be used in the header for all data files displayed on the HMD website. For populations where the population classifier (e.g., total or civilian) is indeterminate, it is particularly important that the population is described to the best of your knowledge. At the discretion of the country specialist, other unspecified information (e.g. history of updates) can be included on subsequent lines.

For example:

FRATNPreadme.txt reads:

France, National Total Population

FRACNPreadme.txt reads:

France, National Civilian Population

ITA_NPreadme.txt reads:

Italy, National Population (excludes military deaths, but population includes military)

Appendix I. List of HMD country/population codes

Country/Subpopulation	Code
Australia	AUS
Austria	AUT
Belgium	BEL
Belarus	BLR
Bulgaria	BGR
Canada	CAN
Chile	CHL
Croatia	HRV
Czech Republic	CZE
Germany: Total population	DEUTNP
Germany: East Germany	DEUTE
Germany: West Germany	DEUTW
Denmark	DNK
Spain	ESP
Estonia	EST
Finland	FIN
France: Total population	FRATNP
France: Civilian population	FRACNP
Greece	GRC
Hungary	HUN
Iceland	ISL
Ireland	IRL
Israel	ISR
Italy	ITA
Japan	JPN
Latvia	LVA
Lithuania	LTU
Luxembourg	LUX
Netherlands	NLD
New Zealand: Maori	NZL_MA
New Zealand: Non-Maori	NZL_NM
New Zealand: Total population	NZL_NP
Norway	NOR
Poland	POL
Portugal	PRT
Republic of Korea	KOR
Russia	RUS
Slovakia	SVK
Slovenia	SVN
Sweden	SWE

Switzerland	CHE
Taiwan	TWN
Ukraine	UKR
United Kingdom (U.K.) Total Population	GBR_NP
U.K.: England & Wales Total Population	GBRTENW
U.K.: England & Wales Civilian Population	GBRCENW
U.K.: Scotland	GBR_SCO
U.K.: Northern Ireland	GBR_NIR
United States of America	USA