# ANNEX
# Continuous time series of mortality by cause of death for Belarus
(1965-2010)

**Note: Before using the data, please read this documentation.**

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ALL DATA AND DOCUMENTATION IN ONE FILE (ANNEX.zip)

# OVERVIEW

This annex contains concise technical documentation on the reconstruction of continuous mortality series by causes of death for Belarus, as well as a description of the structure of the data files produced. The time series were reconstructed using the official data. Population estimates from the Human Mortality Database were used (www.mortality.org) to compute mortality rates. Age-standardized mortality rates were calculated on the basis of the European population standard.

The output data files are provided by year, sex, five-year age group, and cause of death. The reconstructed data are available for all of the 277 items that appear in the most recent Belarusian classification of causes of death (BC-2002). These data are also available in aggregated formats: List A refers to large groups (classes) of causes of death, while List B covers more than 60 items most frequently used in the analysis of cause-specific mortality.

The data appear in .CSV format. The fields are separated by commas, and string variables are in double quotation marks.

# DESCRIPTION OF THE FILES AND DATA STRUCTURE

**[ANNEX I. Classifications of causes of death]**

SC-1965.pdf, SC-1970.pdf, SC-1981.pdf, SC-1988.pdf

These files contain lists of items used in the Soviet Classifications (SC) of causes of death in the 1965, 1970, 1981, and 1988 revisions. Both the English and the Russian names of the items are provided.

BC-2002.pdf

Items of the Belarusian abridged classification of causes of death of 2002 (BC-2002) with the corresponding items of the ICD-10

List A.pdf

Items of the BC-2002 aggregated into eight large groups (classes) of causes of death with the corresponding items of the ICD-10

List B.pdf

Items of the BC-2002 aggregated into 65 selected causes of death with the corresponding items of the ICD-10

## [ANNEX II. Fundamental associations of items]

FA 1970_1965.pdf

147 fundamental associations between the items of the SC-1970 and the SC-1965

FA 1981_1970.pdf

154 fundamental associations between the items of the SC-1981 and the SC-1970

FA 1988_1981.pdf

15 fundamental associations between the items of the SC-1988 and the SC-1981

FA 2002_1988.pdf

150 fundamental associations between the items of the BC-2002 and the SC-1988

## [ANNEX III. Transition coefficients]

TC 1970_1965.csv

TC 1981_1970.csv

TC 1988_1981.csv

TC 2002_1988.csv

Transitions coefficients between the items of the respective revisions (per thousand). Columns SC1970 and SC1965, for example, refer to the items of the SC-1970 and the SC-1965, respectively. Columns a0, a1, a5, a10, …, a80, a85 refer to the age groups 0, 1-4, 5-9, 10-14, …, 80-84, 85+.

## [ANNEX IV. Reconstructed data [unadjusted], 1965-2010]

Deaths BC-2002.unadj.csv

Deaths List A unadj.csv

Deaths List B unadj.csv

Reconstructed mortality series (death counts) without the adjustment of infant deaths and the redistribution of ill-defined causes. The causes of death are classified in accordance with BC-2002, List A, and List B. The data files have the following structure:

| Variable | Type | Description |
|---|---|---|
| Year | numeric | Year to which data refer |
| Sex | numeric | 1–male, 2–female, 0–both sexes combined |
| Cause | numeric | Code of the item in accordance with BC-2002, List A, or List B |
| Name | character | Name of the item [ENG] in accordance to BC-2002, List A, or List B |
| d0 | numeric | Deaths at age 0 |
| d1-4 | numeric | Deaths at ages 1-4 years |
| d5-9 | numeric | Deaths at ages 5-9 years |
| d10-14 | numeric | Deaths at ages 10-14 years |
| …… | …… | …… |
| d80-84 | numeric | Deaths at ages 80-84 years |
| d85+ | numeric | Deaths at ages 85 years and above |
| dTotal | numeric | Deaths at all ages |

**[ANNEX V. Reconstructed data [adjusted], 1965-2010]**

Deaths BC-2002.csv

Deaths List A.csv

Deaths List B.csv

Reconstructed mortality series (death counts) after the adjustment of infant deaths and the redistribution of ill-defined causes. The causes of death are classified in accordance with BC-2002, List A, and List B. The data files have the same structure as the files that appear in Annex IV.

**[ANNEX VI. Mortality rates by cause per 1,000,000 population [based on the adjusted data]; 1965-2010]**

Mortality rates BC-2002.csv

Mortality rates List A.csv

Mortality rates List B.csv

Age- and cause-specific mortality rates calculated on the basis of the adjusted data and the data on population exposure (see Annex VII). The causes of death are classified in accordance with BC-2002, List A, and List B. The data files have the following structure:

| Variable | Type | Description |
|---|---|---|
| Year | numeric | Year to which data refer |
| Sex | numeric | 1–male, 2–female, 0–both sexes combined |
| Cause | numeric | Code of the item in accordance to BC-2002, List A, or List B |
| Name | character | Name of the item [ENG] in accordance with BC-2002, List A, or List B |
| m0 | numeric | Death rate at age 0 |
| m1-4 | numeric | Death rate at ages 1-4 years |
| m5-9 | numeric | Death rate at ages 5-9 years |
| m10-14 | numeric | Death rate at ages 10-14 years |
| …… | …… | …… |
| m80-84 | numeric | Death rate at ages 80-84 years |
| m85+ | numeric | Death rate at ages 85 years and above |
| CDR | numeric | Crude death rate |

SDR BC-2002.csv

SDR List A.csv

SDR List B.csv

Age-standardized mortality rates by sex and cause, calculated on the basis of the *European population* standard:

| Age group | Population | Age group | Population |
|---|---|---|---|
| 0 | 1600 | 45-49 | 7000 |
| 1-4 | 6400 | 50-54 | 7000 |
| 5-9 | 7000 | 55-59 | 6000 |
| 10-14 | 7000 | 60-64 | 5000 |
| 15-19 | 7000 | 65-69 | 4000 |
| 20-24 | 7000 | 70-74 | 3000 |
| 25-29 | 7000 | 75-79 | 2000 |
| 30-34 | 7000 | 80-84 | 1000 |
| 35-39 | 7000 | 85+ | 1000 |
| 40-44 | 7000 | | |

The causes of death are classified in accordance with BC-2002, List A, and List B. The data files have the following structure:

| Variable | Type | Description |
|---|---|---|
| Year | numeric | Year to which the data refer |
| Sex | numeric | 1–male, 2–female, 0–both sexes combined |
| Cause | numeric | Code of the item in accordance with BC-2002, List A, or List B |
| Name | character | Name of the item [ENG] in accordance with BC-2002, List A, or List B |
| SDR | numeric | Standardized death rate |

**[ANNEX VII. Population exposure, 1965-2010]**

Births unadj.csv
Number of live births by sex without the adjustment
Births.csv
Number of live births after the adjustment (see Section 3 of the working paper for a detailed description)

Both data files have the following structure:

| Variable | Type | Description |
|---|---|---|
| Year | numeric | Year to which the data refer |
| Total | numeric | Live births for both sexes combined |
| Male | numeric | Male live births |
| Female | numeric | Female live births |

Population.csv

Population exposure by sex and age group obtained from the Human Mortality Database (www.mortality.org). The file has the following structure:

| Variable | Type | Description |
|---|---|---|
| Year | numeric | Year to which the data refer |
| Sex | numeric | 1–male, 2–female, 0–both sexes combined |
| e0 | numeric | Population exposure at age 0 |
| e1-4 | numeric | Population exposure at ages 1-4 years |
| e5-9 | numeric | Population exposure at ages 5-9 years |
| e10-14 | numeric | Population exposure at ages 10-14 years |
| …… | …… | …… |
| e80-84 | numeric | Population exposure at ages 80-84 years |
| e85+ | numeric | Population exposure at ages 85 years and above |
| eTotal | numeric | Population exposure at all ages |