Codebook for "A New Dataset on Infant Mortality Rates, 1816-2002"

by M. Rodwan Abouharb & Anessa L. Kimball

The purpose of this codebook is to describe the data collection effort and procedures, as well as provide a list of resources accessed for the compilation of the infant mortality rate data.

Infant mortality rates are formally defined as the number of infant deaths (excluding still births) by infants of less than one year of age out of every one-thousand infants born. As such infant mortality rates serve as an important demographic indicator of a state. We encourage readers to reference the section "Describing Infant Mortality" in the Research Note that accompanies this codebook. This variable is called IMR in our dataset. Special notes about the data collected for particular countries can be found at the end of this document.

This dataset is a systematic effort at compiling infant mortality rates for all states formally recognized by the Correlates of War list of independent states between 1816 and 2002. Our effort is focused on two primary goals. First, we endeavor to collect annual data as most existing data collection efforts use data that is a multiple-year average inputted as a multiple year constant value or contain many missing datapoints. Second, we focus on extending the temporal and spatial domain relative to existing efforts. Most existing data efforts focus on a limited temporal domain or some subset of related countries (i.e. industrialized states, developing states, states in the same region).

Our data collection effort is the largest both geographically and temporally relative to existing research (see Data Appendix). Moreover, since our emphasis is on annual values our data contains much more variation than data relying solely on UN data efforts. Furthermore, since the quality of demographic data is often questionable anytime the source indicated uncertainty with respect to the data reported we also coded this in our dataset by inputting a (.1)

after the source number reference. When unable to find any other annual sources of information for years after 1950 we utilized the UN five-year reported averages as a final resort. Those averages are only used for the post-1950 time period and there is no country whose data are only from the UN sources. Approximately 750 or (7%) of our data points come from this source. It should be noted that the individual UN Demographic Yearbooks actually report annual level data, the five-year averaged data are the data that the UN provides electronically. Thus, any sources that are the UN Demographic Yearbook are annual level data for various years as reported to the UN. In a small number of instances we found more than one source for data in a given year that did not match. We relied on the following coding rules, we used the more "reliable" source (i.e. original government census data or case-study data that was claimed to be reliable), if possible, and in the absence of such a source we relied on the UN demographic yearbook (which was always among the possible sources in these instances though often self-identified as uncertain).

The sources accessed to attain the data ranged from census data reported by individual states (e.g. the Netherlands, Turkey) to data collected by international organizations such as the United Nations or the International Bank for Reconstruction and Development to data collected and reported by individual researchers in country or region specific publications. The list provided below identifies the sources we accessed as well as the corresponding number they are coded under the variable IMRSOURCE in our dataset.[1] Table 1 describes the geographic and temporal coverage of the dataset. Column one indicates the country name. Column two describes the years each country is in the dataset. Column three indicates the number of potential observations for that country in the dataset. Column four describes the number of years for which we are missing observations over the 1816-2002 period. Column five describes the percentage of

[1] Other data included in this data set are the minimum winning coalition (W) from Bueno de Mesquita et al., (2003) and the number of states in the system (NUMSTATE) from EUGene (Bennet & Stam, 2002).

years for which we are missing observations over the 1816-2002 period. Column six describes the number of years for which we are missing observations after 1899.Column seven describes the percentage of years for which we are missing observations after 1899.

Table 1 describes the geographic and temporal coverage of the dataset. Column one indicates the country name. Column two indicates the Correlates of War (COW) Country Code. Column three describes the years each country is in the dataset. Column four indicates the number of observations for that country in the dataset. Column five describes the years that country is not included in the data-set, usually because it exited the international system. [Table 1 about here]

References

Infant Mortality Rate Data Sources

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Special Data Notes

- UK is mean of England, Wales & Scotland from 1855 and is sum of England and Wales pre-1855.
- The coding for Yugoslavia pre-1911 is Serbia.
- The coding for Spain tagged as source 20.1 is for central Spain.
- Data for Estonia, Latvia, and Lithuania between 1921 and 1940 are 5-year observations.
- The data pre 1920 is for central Japan, but the study suggests they provide a good measure of the national situation (Janetta & Preston 1998). To calculate the infant mortality ration we subtracted the survival rate from 1000, generating the mortality rate
- The data for Bavaria was multiplied by 10 in order to generate the infant mortality rate of one death per 1000 live births.
- The data for Iran 1950 is based on survey results of the capital and surrounding regions. The author suggests that these results would be consistent with IMR data for the entire state of Iran.
- The data for Bangladesh (1972-74) is a five-year average of 1970-74.
- The data for Morocco (1961, 1963, 1964) are averaged over 5 years. The data for 1965-69 are averaged over 5 years. The data for 1970, 1971, 1973, and 1974 are averaged over 5 years.
- The data for Algeria (1971-75) are averaged over 5 years.
- The data for Tunisia (1961-65) are averaged over 5 years (1960-65).
- Source 54 reports only 5-year averages.
- Data from Urdal (2005) are the UN five-year average data, these data were only used for the 1 year of the five year period. They account for 23 observations in our dataset.

Table 1: Geographic & Temporal Coverage of the Infant Mortality Rate Data-Set

Country Name	COW Country Code	Year Range in Data	Number of Observations in Data for Time Period	Years not Included
Afghanistan	700	1920-2002	83	
Albania	339	1914-2002	85	1940-43*
Algeria	615	1962-2002	41	1882-1955*
Andorra	232	1993-2002	10	
Angola	540	1975-2002	28	
Antigua & Barbuda	58	1981-2002	22	
Argentina	160	1841-2002	162	
Armenia	371	1991-2002	12	
Australia	900	1920-2002	83	
Austria	305	1919-2002	68	1939-54*
Austria-Hungary	300	1816-1918	103	
Azerbaijan	373	1991-2002	12	
Baden	267	1816-1971	56	
Bahamas	31	1973-2002	30	
Bahrain	692	1971-2002	32	
Bangladesh	771	1972-2002	31	
Barbados	53	1966-2002	37	
Bavaria	245	1816-1871	56	
Belarus	370	1991-2002	12	
Belgium	211	1830-2002	169	1941-44*
Belize	80	1981-2002	22	
Benin	434	1960-2002	43	
Bhutan	760	1971-2002	32	
Bolivia	145	1848-2002	155	
Bosnia-Herzegovina	346	1992-2002	11	
Botswana	571	1966-2002	37	
Brazil	140	1826-2002	177	
Brunei	835	1984-2002	19	
Bulgaria	355	1908-2002	95	
Burkina Faso	439	1960-2002	43	
Burundi	516	1962-2002	41	
Cambodia	811	1953-2002	50	
Cameroon	471	1960-2002	43	
Canada	20	1920-2002	83	
Cape Verde	402	1975-2002	28	
Central African Republic	482	1960-2002	43	
Chad	483	1960-2002	43	
Chile	155	1839-2002	164	
China	710	1860-2002	143	
Colombia	100	1831-2002	172	
Comoros	581	1975-2002	28	
Congo	484	1960-2002	43	
Costa Rica	94	1920-2002	83	
Cote d'Ivoire	437	1960-2002	43	

Country Name	COW Country Code	Year Range in Data	Number of Observations in Data for Time Period	Years not Included
Croatia	344	1992-2002	11	
Cuba	40	1902-2002	99	1907-08*
Cyprus	352	1960-2002	43	
Czech Republic	316	1993-2002	10	
Czechoslovakia	315	1918-92	70	1940-44*
Denmark	390	1816-2002	183	1941-44*
Djibouti	522	1977-2002	26	
Dominica	54	1978-2002	25	
Dominican Republic	42	1894-2002	102	1917-23*
Ecuador	130	1854-2002	149	
Egypt	651	1855-2002	94	1883-1936*
El Salvador	92	1875-2002	128	
Equatorial Guinea	411	1968-2002	35	
Eritrea	531	1993-2002	10	
Estonia	366	1918-2002	35	1941-90*
Ethiopia	530	1898-2002	101	1937-40*
Fiji	950	1970-2002	33	
Finland	375	1917-2002	86	
France	220	1816-2002	186	
Gabon	481	1960-2002	43	
Gambia	420	1965-2002	38	
Georgia	372	1991-2002	12	
German Dem. Republic	265	1954-90	37	
German Federal Republic	260	1955-90	36	
Germany	255	1816-2002	143	1946-90*
Ghana	452	1957-2002	46	
Greece	350	1828-2002	173	1942-43*
Grenada	55	1974-2002	29	
Guatemala	90	1868-2002	135	
Guinea	438	1958-2002	45	
Guinea-Bissau	404	1974-2002	29	
Guyana	110	1966-2002	37	
Haiti	41	1859-2002	126	1916-33*
Hanover	240	1838-66	29	
Hesse - Electoral	273	1816-66	51	
Hesse - Grand Ducal	275	1816-67	52	
Honduras	91	1899-2002	104	
Hungary	310	1918-2002	85	
Iceland	395	1944-2002	59	
India	750	1947-2002	56	
Indonesia	850	1949-2002	54	
Iran	630	1855-2002	148	
Iraq	645	1932-2002	71	
Ireland	205	1922-2002	81	
Israel	666	1948-2002	55	
Italy	325	1816-2002	187	

Country Name	COW Country Code	Year Range in Data	Number of Observations in Data for Time Period	Years not Included
Jamaica	51	1962-2002	41	
Japan	740	1860-2002	137	1946-51*
Jordan	663	1946-2002	57	
Kazakhstan	705	1991-2002	12	
Kenya	501	1963-2002	40	
Korea	730	1887-1905	19	
Korea - North	731	1948-2002	55	
Korea - South	732	1949-2002	54	
Kuwait	690	1961-2002	42	
Kyrgyz Republic	703	1991-2002	12	
Laos	812	1953-2002	50	
Latvia	367	1918-2002	35	1941-90*
Lebanon	660	1946-2002	57	
Lesotho	570	1966-2002	37	
Liberia	450	1920-2002	83	
Libya	620	1951-2002	52	
Liechtenstein	223	1990-2002	13	
Lithuania	368	1918-2002	35	1941-90*
Luxembourg	212	1920-2002	80	1943*
Macedonia	343	1993-2002	10	
Madagascar	580	1960-2002	43	
Malawi	553	1964-2002	39	
Malaysia	820	1957-2002	46	
Maldive Islands	781	1965-2002	38	
Mali	432	1960-2002	43	
Malta	338	1964-2002	39	
Marshall Islands	983	1991-2002	12	
Mauritania	435	1960-2002	43	
Mauritius	590	1968-2002	35	
Mecklenburg Schwerin	280	1843-67	25	
Mexico	70	1831-2002	172	
Micronesia – Fed.States	987	1991-2002	12	
Modena	332	1842-60	19	
Moldova	359	1991-2002	12	
Monaco	221	1993-2002	10	
Mongolia	712	1921-2002	82	
Morocco	600	1847-2002	112	1912-55*
Mozambique	541	1975-2002	28	
Myanmar	775	1958-2002	55	
Namibia	565	1990-2002	13	
Nepal	790	1920-2002	83	
Netherlands	210	1816-2002	183	1941-44*
New Zealand	920	1920-2002	83	
Nicaragua	93	1900-2002	103	
Niger	436	1960-2002	43	
Nigeria	475	1960-2002	43	

Country Name	COW Country Code	Year Range in Data	Number of Observations in Data for Time Period	Years not Included
Norway	385	1905-2002	94	1941-44*
Oman	698	1971-2002	32	
Pakistan	770	1947-2002	56	
Palau	986	1994-2002	9	
Panama	95	1920-2002	83	
Papal States	327	1816-60	45	
Papua New Guinea	910	1975-2002	28	
Paraguay	150	1846-2002	152	1871-75*
Parma	335	1851-60	10	
Peru	135	1839-2002	164	
Philippines	840	1946-2002	57	
Poland	290	1918-2002	80	1940-44*
Portugal	235	1816-2002	187	
Qatar	694	1971-2002	32	
Romania	360	1878-2002	125	
Russia	365	1816-2002	187	
Rwanda	517	1962-2002	41	
Saint Kitts-Nevis	60	1983-2002	20	
Saint Lucia	56	1979-2002	24	
Saint Vincent & Grenadines	57	1979-2002	24	
Samoa	990	1976-2002	27	
San Marino	331	1992-2002	11	
Sao Tome and Principe	403	1975-2002	28	
Saudi Arabia	670	1927-2002	76	
Saxony	269	1816-71	56	
Senegal	433	1960-2002	43	
Seychelles	591	1976-2002	27	
Sierra Leone	451	1961-2002	42	
Singapore	830	1965-2002	38	
Slovakia	317	1993-2002	10	
Slovenia	349	1992-2002	11	
Solomon Islands	940	1978-2002	25	
Somalia	520	1960-2002	43	
South Africa	560	1920-2002	83	
Spain	230	1816-2002	187	
Sri Lanka	780	1948-2002	55	
Sudan	625	1956-2002	47	
Suriname	115	1975-2002	28	
Swaziland	572	1968-2002	35	
Sweden	380	1816-2002	187	
Switzerland	225	1816-2002	187	
Syria	652	1946-2002	55	1959-60*
Taiwan	713	1949-2002	54	
Tajikistan	702	1991-2002	12	
Tanzania	510	1961-2002	42	

Country Name	COW Country Code	Year Range in Data	Number of Observations in Data for Time Period	Years not Included
Thailand	800	1887-2002	116	
Togo	461	1960-2002	43	
Trinidad and Tobago	52	1962-2002	41	
Tunisia	616	1825-2002	104	
Turkey	640	1816-2002	187	
Turkmenistan	701	1991-2002	12	
Tuscany	337	1816-60	45	
Two Sicilies	329	1816-61	46	
Uganda	500	1962-2002	41	
Ukraine	369	1991-2002	12	
United Arab Emirates	696	1971-2002	32	
United Kingdom	200	1816-2002	187	
United States of America	2	1816-2002	187	
Uruguay	165	1882-2002	121	
Uzbekistan	704	1991-2002	12	
Vanuatu	935	1981-2002	22	
Venezuela	101	1841-2002	162	
Vietnam	816	1954-2002	49	
Vietnam - South	817	1954-75	22	
Wuerttemburg	271	1816-71	56	
Yemen	679	1990-2002	13	
Yemen Arab Republic	678	1926-90	65	
Yemen People's Republic	680	1967-90	24	
Yugoslavia	345	1878-2002	123	1942-43*
Zaire	490	1960-2002	43	
Zambia	551	1964-2002	39	
Zanzibar	511	1963-64	2	
Zimbabwe	552	1965-2002	38	

*Reason: State Exited State System, Source: Correlates of War, State System List, v. 2004,1