

## Development Database

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The social and economic data in the "Development Database" were compiled by James W. McGuire, Department of Government, Wesleyan University, during the summer of 1999. Bernard Brown, Wesleyan '99, helped to collect some of the data. His research assistance was supported by a Wesleyan University Project Grant.

The database is available in html format at <http://woodstock.wesleyan.edu/acsocsci/jmcguire>. Visitors can manipulate the database with an interactive mapper designed by Hendrik Meij, Wesleyan's application technology specialist.

If you use these data, please cite the database as follows: McGuire, James W., compiler (1999). Development Database. Accessed March 20, 2003 (or whenever), at <http://woodstock.wesleyan.edu/acsocsci/jmcguire>

The 156 variables in the database are listed below. They pertain to population, fertility, infant mortality, life expectancy, income distribution, per capita GDP, literacy, schooling, democracy, labor union strength, land tenure, labor force participation, free-market orientation, social insurance program experience, and income poverty, female-to-male population ratio, maternal mortality, female life expectancy, female labor force participation, female literacy, female schooling, proportion of women in parliament, and female wages as a proportion of male wages.

The 173 countries in the database are Afghanistan, Albania, Algeria, Angola, Argentina, Armenia, Australia, Austria, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, Brunei Darussalam, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Central African Rep, Chad, Chile, China, Colombia, Comoros, Congo, Congo (ex-Zaire), Costa Rica, Côte d'Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Denmark, Djibouti, Dominican Republic, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, Gabon, Gambia, Georgia, Germany, Ghana, Greece, Guatemala, Guinea, Guinea Bissau, Guyana, Haiti, Honduras, Hong Kong (pre-97), Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Korea, Demo. People's, Korea, Republic of, Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Libya, Lithuania, Luxembourg, Macedonia, FYR of, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Mauritania, Mauritius, Mexico, Moldova, Mongolia, Morocco, Mozambique, Myanmar, Namibia, Nepal, Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Poland, Portugal, Qatar, Romania, Russian Federation, Rwanda, Samoa, Saudi Arabia, Senegal, Sierra Leone, Singapore, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, Sudan, Suriname, Swaziland, Sweden, Switzerland, Syria, Taiwan, China, Tajikistan, Tanzania, Thailand, Togo, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States, Uruguay, Uzbekistan, Vanuatu, Venezuela, Viet Nam, Yemen, Yugoslavia, Zambia, and Zimbabwe.

Several variables are measured at multiple points in time, some beginning as before 1900, and many beginning in 1960. A sample consisting of six of the 156 variables in the database appears at the end of this document.

Annotations to the data and a short citation are given at the foot the column corresponding to each variable. Sources are cited fully at <http://woodstock.wesleyan.edu/acsocsci/jmcguire/data/sources.html>

**Indicator,Date,Form of indicator,Content of indicator,Female or both sexes**

1. ILO Region,1997,Level, Region,Both Sexes
2. Indlzd Cap,1997,Dummy,Region,Both Sexes
3. Sov Bloc,1997,Dummy,Region,Both Sexes
4. Mid East,1997,Dummy,Region,Both Sexes
5. Africa,1997,Dummy,Region,Both Sexes
6. Lat Am,1997,Dummy,Region,Both Sexes
7. Carib,1997,Dummy,Region,Both Sexes
8. So Asia,1997,Dummy,Region,Both Sexes
9. Ea Asia,1997,Dummy,Region,Both Sexes
10. SE Asia,1997,Dummy,Region,Both Sexes
11. Com Asia,1997,Dummy,Region,Both Sexes
12. Pacific,1997,Dummy,Region,Both Sexes
13. Developing Capitalist,1997,Dummy,Database,Both Sexes
14. Middle-Income Developing Capitalist,1997,Dummy,Database,Both Sexes
15. Sixteen East Asian and Latin American countries analyzed in McGuire and Campos 1997,1997,Dummy,Database,Both Sexes
16. Former or Current Socialist,1997,Dummy,Database,Both Sexes
17. Autocracy, average level 1960-1994, Polity III,1960-1994,Level,Democracy,Both Sexes
18. Democracy, average level 1960-1994, Polity III,1960-1994,Level,Democracy,Both Sexes
19. Political and civil liberties, average of yearly Freedom House scores 1973-1992,1973-1992,Level,Democracy,Both sexes
20. Population (Total),1996,Level,Demography,Both sexes
21. Population growth, annual rate 1980-1996,1980 to 1996,Change,Demography,Both sexes
22. Total fertility rate, 1960, UNICEF 1998,1960,Level,Demography,Female
23. Total fertility rate, 1980,1980,Level,Demography,Female
24. Total fertility rate, 1996,1996,Level,Demography,Female
25. Total fertility rate, average of 1960 and 1996,1960-1996,Level,Demography,Female
26. Average annual rate of fertility reduction,1960 to 1980,Change,Demography,Female
27. Average annual rate of fertility reduction,1980 to 1996,Change,Demography,Female
28. Total fertility rate, change from 1960 to 1996,1980 to 1996,Change,Demography,Female
29. Urban population, 1960,1960,Level,Demography,Both sexes
30. Urban population, 1990,1990,Level,Demography,Both sexes
31. Urban population, average of 1960 and 1990,1960-1990,Level,Demography,Both sexes
32. Urban population, change from 1960 to 1990,1960 to 1990,Change,Demography,Both sexes
33. Adult Literacy Rate,1994,Level,Education,Both sexes
34. Average schooling years in the total population over age 25, 1960,1960,Level,Education,Both sexes
35. Average schooling years in the total population over age 25, 1985,1985,Level,Education,Both sexes
36. Average schooling years in the total population over age 25, average of 1960 & 1985,1960-1985,Level,Education,Both sexes
37. Average schooling years in the total population over age 25, Chg 1960 to 1985,1960 to 1985,Change,Education,Both sexes
38. Labor force, 1996,1996,Level,Employment,Both sexes
39. Labor force annual growth, 1980-1996,1980 to 1996,Change,Employment,Both sexes
40. Labor force participation, total, 1980,1980,Level,Employment,Both sexes
41. Labor force participation, total, 1996,1996,Level,Employment,Both sexes
42. Labor force participation, male, 1980,1980,Level,Employment,Male
43. Labor force participation, male, 1996,1996,Level,Employment,Male
44. Labor force participation, female, 1980,1980,Level,Employment,Female
45. Labor force participation, female, 1996,1996,Level,Employment,Female
46. GDP per capita in 1990 as mult. of 1960, 1990 Geary-Khamis dollars, Maddison data,1960 to 1990,Change,Income,Both sexes
47. GDP per capita in 1990 as mult. of 1960, Penn World Tables (PPP, 1985 Int'l \$US,1960 to 1990,Change,Income,Both sexes
48. Real GDP per capita (PPP) in 1994 as multiple of 1960, UNDP data,1960 to 1994,Change,Income,Both sexes
49. GDP per capita in 1820 in 1990 Geary-Khamis dollars, Maddison data,1820,Level,Income,Both Sexes
50. GDP per capita in 1870 in 1990 Geary-Khamis dollars, Maddison data,1870,Level,Income,Both Sexes
51. GDP per capita in 1900 in 1990 Geary-Khamis dollars, Maddison data,1900,Level,Income,Both Sexes
52. GDP per capita in 1960 in 1990 Geary-Khamis dollars, Maddison data,1960,Level,Income,Both sexes
53. GDP per capita in 1990 in 1990 Geary-Khamis dollars, Maddison data,1990,Level,Income,Both sexes
54. GDP per capita in 1960 from Penn World Tables 5.4 (PPP, 1985 Int'l US Dollars, chain index),1960,Level,Income,Both sexes
55. GDP per capita in 1990 from Penn World Tables 5.4 (PPP, 1985 Int'l US Dollars, chain index),1990,Level,Income,Both sexes
56. GDP per capita, avg of 1960 & 1990, Penn World Tables (PPP, 1985 Int'l US Dollars),1960, 1990,Level,Income,Both sexes
57. Real GDP per capita (PPP), UNDP data, 1960,1960,Level,Income,Both sexes
58. Real GDP per capita (PPP), UNDP data, 1994,1994,Level,Income,Both sexes
59. GDP per capita, PPP (constant 1987 int'l \$), 1996,1996,Level,Income,Both sexes
60. GNP per capita (constant 1987 US\$), 1996,1996,Level,Income,Both sexes
61. GNP per capita, Atlas method (current US\$), 1996,1996,Level,Income,Both sexes
62. Average Gini Coefficient, 1947-1995, Deininger and Squire,1947-1995,Inequality,Income,Both sexes
63. Average Gini Coefficient, 1947-1995, Deininger and Squire, adjusted for expend. data,1947-1995,Inequality,Income,Both sexes
64. Physicians per 100,000 population,circa 1990,Level,Infrastructure,Both sexes

65. Nurses per 100,000 population,circa 1990,Level,Infrastructure,Both sexes
66. Ratio of physicians to nurses,circa 1990,Level,Infrastructure,Both sexes
67. Union members,1995,Level,Labor,Both sexes
68. Union members,1985,Level,Labor,Both sexes
69. Change in union membership,1985 to 1995,Change,Labor,Both sexes
70. Union members as % of non-agricultural labor force, 1995,1995,Level,Labor,Both sexes
71. Union members as % of wage and salary earners,1995,Level,Labor,Both sexes
72. Union members as % of formal sector wage earners,1995,Level,Labor,Both sexes
73. Union members as % of non-agricultural labor force,1985,Level,Labor,Both sexes
74. Union members as % of wage and salary earners,1985,Level,Labor,Both sexes
75. Union members as % of formal sector wage earners,1985,Level,Labor,Both sexes
76. Collective bargaining level over past ten years,1986-96,Level,Labor,Both sexes
77. Dominant collective bargaining level over past ten years,1986-96,Level,Labor,Both sexes
78. National-sectoral level collective bargaining trend over past ten years,1986-1996,Change,Labor,Both sexes
79. Company-plant level collective bargaining trend over past ten years,1986-1996,Change,Labor,Both sexes
80. Proportion of employees covered by collective bargaining agreements (%),1995,Level,Labor,Both sexes
81. Number of ILO conventions ratified as of June 1997,As of 1997,Level,Labor,Both sexes
82. Number of labor variables for which country has information,1986-97,Level,Labor,Both sexes
83. Labor strength index: avg of z-scores on each labor indicator for which information exists,1986-97,Level,Labor,Both sexes
84. Social insurance program experience 1960,1960,Level,Policy,Both sexes
85. Social insurance program experience 1967,1967,Level,Policy,Both sexes
86. Social insurance program experience 1973,1973,Level,Policy,Both sexes
87. Social insurance program experience 1973,,,
88. Proportion of urban population in poverty,1980,Level,Poverty,Both sexes
89. Proportion of urban population in poverty,1990,Level,Poverty,Both sexes
90. Proportion of rural population in poverty,1980,Level,Poverty,Both sexes
91. Proportion of rural population in poverty,1990,Level,Poverty,Both sexes
92. Proportion of labor force in agriculture, 1960,1960,Level,Rural,Both sexes
93. Proportion of labor force in agriculture, 1990,1990,Level,Rural,Both sexes
94. Proportion of labor force in agriculture, average of 1960 and 1990,1960-1990,Level,Rural,Both sexes
95. Proportion of labor force in agriculture, change from 1960 to 1990,1960 to 1990,Change,Rural,Both sexes
96. Gini coefficient of land distribution,1970s and 80s,Inequality,Rural,Both sexes
97. Smallholder farmers' share in arable and permanent crop land (percent) 1988,1988,Inequality,Rural,Both sexes
98. Vanhanen family farm index (usually family farm area as a percent of total cultivated area),1970-1991,Level,Rural,Both sexes
99. Interaction between average % of labor force in agriculture and Vanhanen family farm index,1960-1990,Level,Rural,Both sexes
100. Life expectancy in 1960, UNDP data,1960,Level,Survival,Both sexes
101. Life expectancy in 1993, UNDP data,1993,Level,Survival,Both sexes
102. Life expectancy expansion, percent increase 1960 to 1993, toward 85,1960 to 1993,Change,Survival,Both sexes
103. Life expectancy expansion, residual when ln of 1993 is regressed on ln of 1960 rate,1960 to 1993,Change,Survival,Both sexes
104. Infant mortality (deaths before age 1 per 1000 live births), UNICEF 1998 data, 1960,1960,Level,Survival,Both sexes
105. Infant mortality (deaths before age 1 per 1000 live births), UNICEF 1998 data, 1996,1996,Level,Survival,Both sexes
106. Infant mortality (deaths before age 1 per 1000 live births), World Bank data, 1996,1996,Level,Survival,Both sexes
107. Infant mortality reduction, absolute 1960 to 1996,1960-1996,Change,Survival,Both sexes
108. Infant mortality reduction, percent 1960 to 1996, to min. of 0,1960-1996,Change,Survival,Both sexes
109. Infant mortality reduction, percent 1960 to 1996, to min. of 2,1960-1996,Change,Survival,Both sexes
110. Infant mortality reduction, percent 1960 to 1996, to min. of 4,1960-1996,Change,Survival,Both sexes
111. Infant mortality reduction, Kakwani imprv. index, 1960-1996, to min. of 0,1960 to 1996,Change,Survival,Both sexes
112. Infant mortality reduction, Kakwani imprv. index, 1960-1996, to min. of 2,1960 to 1996,Change,Survival,Both sexes
113. Infant mortality reduction, Kakwani imprv. index, 1960-1996, to min. of 4,1960 to 1996,Change,Survival,Both sexes
114. Infant mortality reduction, 1960 rate as multiple of 1996 rate,1960-1996,Change,Survival,Both sexes
115. Infant mortality reduction, ln of 1960 rate minus ln of 1996 rate,1960-1996,Change,Survival,Both sexes
116. Residual when ln of 1996 rate is regressed on ln 1960 rate in 176-country dataset,1960-1996,Change,Survival,Both sexes
117. Under-5 Mortality Rank, 1996, in 189-country UNICEF dataset,1996,Rank,Survival,Both sexes
118. Under-5 Mortality,1960,Level,Survival,Both sexes
119. Under-5 Mortality,1980,Level,Survival,Both sexes
120. Under-5 Mortality,1996,Level,Survival,Both sexes
121. Average annual rate of U5MR reduction,1960-1980,Change,Survival,Both sexes
122. Average annual rate of U5MR reduction,1980-1996,Change,Survival,Both sexes
123. Capital city,As of 1997,Level,Geography,Both sexes
124. Latitude,As of 1997,Level,Geography,Both sexes
125. Economic Freedom 1993-95, Fraser Institute Is1 Scale,1993-95,Level,Policy,Both Sexes
126. Economic Freedom 1990, Fraser Institute Is1 Scale,1990,Level,Policy,Both Sexes
127. Economic Freedom 1985, Fraser Institute Is1 Scale,1985,Level,Policy,Both Sexes
128. Economic Freedom 1980, Fraser Institute Is1 Scale,1980,Level,Policy,Both Sexes
129. Economic Freedom 1975, Fraser Institute Is1 Scale,1975,Level,Policy,Both Sexes
130. Economic Freedom Average, Fraser Institute Is1 Scale,1975-95,Level,Policy,Both Sexes

131. UNDP Gender Development index,1994,Level,Mixed,Female
132. Females per 100 Males,1990,Inequality,Survival,Female
133. Female Life Expectancy,1994,Level,Survival,Female
134. index of Female Life Expectancy (1970 = 100),1994,Change,Survival,Female
135. index of Female Life Expectancy (Male = 100),1990,Inequality,Survival,Female
136. Pct. of Births Attended by Trained Health Personnel,1990-96,Level,Health Care,Female
137. Maternal Deaths per 100,000 births,1990,Level,Survival,Female
138. Total Fertility Rate,1994,Level,Demographic,Female
139. Total Fertility Rate (1970 = 100),1970 to 1994,Change,Demographic,Female
140. Percent of Females Literate,1994,Level,Education,Female
141. Percent of Males Literate,1994,Level,Education,Male
142. index of Females Literate (1970 = 100) ,1992,Change,Education,Female
143. Female Secondary Gross Enrollment,1990,Level,Education,Female
144. Female Secondary Gross Enrollment,1970,Level,Education,Female
145. Female Secondary Gross Enrollment (1970 = 100),1990,Change,Education,Female
146. Female Secondary Gross Enrollment (male = 100),1990,Inequality,Education,Female
147. UNDP Gender Empwrment Measure,1990s,Level,Mixed,Female
148. Female Child Economically Active Rate (Age 10-14),1970,Level,Employment,Female
149. Female Child Economically Active Rate (Age 10-14),1990,Level,Employment,Female
150. Female Labor Force Participation (Age 15+), 1970,1970,Level,Employment,Female
151. Female Labor Force Participation (Age 15+), 1990,1990,Level,Employment,Female
152. Female Labor Force Participation (Male =100),1990,Inequality,Employment,Female
153. Female Share of Earned Income,1994,Inequality,Income,Female
154. Female share of lower-house (or unicameral) legislative seats as of 5 February 1999,1999,Inequality,Employment,Female
155. UNDP Development index rank 1995,,,
156. UNDP Development index rank 1997,,,

## SAMPLE of 6 of the 156 variables in the database

Type	Democracy	Labor	Rural	Survival	Policy	Survival
Level vs. Chg.	Level	Level	Level	Change	Level	Inequality
M/F vs. F	Both sexes	Both sexes	Both sexes	Both sexes	Both Sexes	Female
Indicator	Political and civil liberties, average of yearly Freedom House scores 1973-1992.	Union members as % of wage and salary earners	Vanhanen family farm index (usually family farm area as a percent of total cultivated area)	Infant mortality decline, percent 1960 to 1996, to min. of 0	Economic Freedom 1993-95, Fraser Institute Is1 Scale	Females per 100 Males
Date	1973-1992	1995	1970-1991	1960-1996	1993-95	1990
Afghanistan			65	23.3%		94
Albania			30	69.6%		94
Algeria	2.13		35	77.6%	2.1	100
Angola			42	18.3%		103
Argentina	4.78	38.7	22	63.3%	6.3	102
Armenia			40	34.2%		104
Australia		35.2	67	70.0%	6.8	100
[155 countries omitted]	.....	.....	.....	.....	.....	.....
United Kingdom		32.9	56	73.9%	7.0	105
United States		14.2	54	69.2%	7.6	105
Uruguay	4.20		27	58.3%	6.1	103
Uzbekistan			5	45.2%		102
Vanuatu			50	70.9%		92
Venezuela	6.32	17.1	15	54.7%	4.5	98
Viet Nam			30	77.6%		104
Yemen			66	66.1%		108
Yugoslavia	2.47		75	78.2%		
Zambia	3.00		50	11.1%	3.6	103
Zimbabwe	3.13		30	55.0%	3.5	102
<b>Notes</b>	Both types of liberties combined	Alternate Years: '90 Gha, Nig; '91 Bra, Mex, Pan, Per, India, Sri; '93 Can, Chi, Uru, Bul, Ger (E&W), Ire, Rom; '94 Mor, Tun, Bol, Hon, Gua, HK, Pak, Den, Ice, Ita, Malta, Spa, Swe, Swi; '96 Jap, Rus			Ratings for Haiti based on only 10 of 15 components of index (Gwartney, Lawson, and Block, 53).	
<b>Source</b>	Bhalla 1997: 231-34	ILO 1997: 237-238	Vanhanen 1997: 215-219	Calculated from UNICEF 1998: Table 1; except Taiwan, from DGBAS 1975: 36 (for '60) and DGBAS 1996: 26 (for '95), and Hong Kong (for 1995), from UNICEF 1997: Table 1.	Gwartney, Lawson, and Block 1996: 49-53	UNDP 1993: 152-153, 196; for Taiwan, DGBAS 1996: 11