Brazilian States Database

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The social and economic data in the "Brazilian States Database" were collected by Zuleika Arashiro during her research apprenticeship with James W. McGuire at the Woodrow Wilson International Center for Scholars, Washington, DC, Spring 2001. McGuire reviewed the data and ordered and classified the variables at Wesleyan University in the Fall of 2002.

The database, written in Microsoft Excel 4.0 for the Macintosh, may be downloaded as a Microsoft Excel file at http://condor.wesleyan.edu/jmcguire/data. If you use these data, please cite the database as follows.

Arashiro, Zuleika, and James W. McGuire, compilers (2002). Brazilian States Database. Accessed March 20, 2003 (or whenever), at http://condor.wesleyan.edu/jmcguire/data.

The 51 variables in the database are listed below. They include total population, rural population, infant mortality, death registration, economic output per capita, income poverty, income inequality, educational attainment, FSESP health facilities, hospital beds per 1000 inhabitants, FSESP health personnel, doctors per 1000 inhabitants, nurses per 1000 inhabitants, nurses' aides per 1000 inhabitants, community health workers, and family health teams.

The units observed are 27 Brazilian states, or 16 Brazilian states on variables that lack data for the North (Amazon) and Center-West regions.

Many variables are measured at multiple points in time.

Annotations to the data and a full citation of the source of the data are given at the foot the column corresponding to each variable.

A sample consisting of five of the 51 variables in the database appears at the end of this document.

1. Population, Total, 1980, Population, 1980
2. Population, Total, 1991, Population, 1991
3. Population, Total, 1997, Population, 1997
4. Population, Rural, 1980, Rural population, 1980
5. Population, Rural, 1991, Rural population, 1991
6. Mortality, Infant, level, 1970, Infant (0-1) deaths per 1000 live births, 1970, census, indirect
7. Mortality, Infant, level, 1980, Infant (0-1) deaths per 1000 live births, 1980, census, indirect
8. Mortality, Infant, level, 1991, Infant (0-1) deaths per 1000 live births, 1991, PNAD, indirect
9. Mortality, Infant, level, 1995, Infant (0-1) deaths per 1000 live births, 1995, Datasus, unspecified
10. Mortality, Infant, % decl, 1995, Percent decline of infant mortality, 1970 to 1995
11. Mortality, Death Registration, Tot, 1998, Registered deaths as a % of estimated deaths, 1998
12. Mortality, Death Registration, Infn, 1998, Registered infant deaths as a % of estimated deaths, 1998
13. Fertility, Birth Registration, 1998, Registered births as a % of estimated births, 1998
14. Output, GSP, 1970, Gross state product, 1970, at PPP
15. Output, GSP, 1980, Gross state product, 1980, at PPP
16. Output, GSP, 1991, Gross state product, 1991, at PPP
17. Output, GSP, 1995, Gross state product, 1995, at PPP
18. Output, GSP, 1996, Gross state product, 1996, in Reais
19. Income, Poverty, 1980, Number of poor, 1980 (# rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
20. Income, Poverty, 1991, Number of poor, 1991 (# rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
21. Income, Poverty, 1980, Number of rural poor, 1980 (# rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
22. Income, Poverty, 1991, Number of rural poor, 1991 (# rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
23. Income, Poverty, 1991, Number of rural poor, 1991 (# rcvg < 1/2 min wage, i.e., 2 mw/fam. 4)
24. Income, Poverty, 1980, Poverty rate, 1980 (% pop. rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
25. Income, Poverty, 1991, Poverty rate, 1991 (% pop. rcvg < 1/2 min wage, i.e., 2 mw/fam. 4)
26. Income, Poverty, 1996, Poverty rate, 1996 (% pop. rcvg < 1/2 min wage, i.e., 2 mw/fam. 4)
27. Income, Poverty, 1980, Rural poverty, 1980 (% rural pop. rcvg < 1/4 min wg, i.e., 1 mw/fam. 4)
28. Income, Poverty, 1991, Rural poverty, 1991 (% rural pop. rcvg < 1/4 min wage, i.e., 1 mw/fam. 4)
29. Income, Poverty, 1991, Rural poverty, 1991 (% rural pop. rcvg < 1/2 min wage, i.e., 2 mw/fam. 4)
30. Income, Inequality, Gini, 1991, Gini index of income inequality, 1991
31. Income, Inequality, topbot20, 1997, Income ratio of richest to poorest 20 percent, 1997
32. Income, Inequality, topbot20, 1998, Income ratio of richest to poorest 20 percent, 1998
33. Income, Inequality, topbot20, 1999, Income ratio of richest to poorest 20 percent, 1999
34. Education, UNDP Attainm, 1970, Educational attainm (.66 literacy & .33 enrollment), UNDP Index, 1970
35. Education, UNDP Attainm, 1980, Educational attainm (.66 literacy & .33 enrollment), UNDP Index, 1980
36. Education, UNDP Attainm, 1991, Educational attainm (.66 literacy & .33 enrollment), UNDP Index, 1991
37. Education, UNDP Attainm, 1995, Educational attainm (.66 literacy & .33 enrollment), UNDP Index, 1995
38. Health Facilities, # facil FSESP, 1987, FSESP Health facilities, 1987
39. Health Facilities, Pop Srvd FSESP, 1987, Population served by FSESP health facilities, 1987
40. Health Facilities, Beds/1000, 1999, Hospital beds per 1000 inhabitants, 1999
41. Health Personnel, # Persnnl FSESP, 1986, FSESP total personnel, 1986
42. Health Personnel, # Persnnl FSESP, 1986, FSESP technical personnel with university degrees, 1986
43. Health Personnel, Docs/1000, 1997, Doctors per 1000, 1997
44. Health Personnel, Docs/1000, M, 1997, Male Doctors per 1000, 1997
45. Health Personnel, Docs/1000, F, 1997, Female Doctors per 1000, 1997
46. Health Personnel, Nurs/1000, 1997, Nurses per 1000, 1997
47. Health Personnel, Aides/1000, 1997, Nurses' Aides per 1000, 1997
48. Health Personnel, # tot CHW, 2000, Community health workers, 2000
49. Health Personnel, # tot FHT, 2000, Family health teams, 2000
50. Health Personnel, Pop Srvd CHW, 2000, Population served by CHW, 2000
51. Health Personnel, Pop Srvd FHT, 2000, Population served by FHT, 2000

SAMPLE of 5 of the 51 variables in the database

Indicator Category		Mortality	Output	Income	Education	Health Personnl
Indicator Subcateg		Infant, level	GPP	Poverty, tot%2	UNDP Attainm	# tot CHW
Year or Period		1995	1970	1991	1995	2000
Indicator		Infant (0-1) deaths per 1000 live births, 1995, Datasus, unspecified	Gross provincial product per capita, 1970, at PPP	Poverty rate, 1991 (% pop. earning less than 1/4 the minimum wage, i.e., 1 min. wage per family of 4)	Educational attainment (.66 literacy & .33 enrollment), UNDP Index, 1995	Community health workers, 2000
Paraná	South	29.7	1736	19	.847	5,373
Rio Grande do Sul	South	20.3	2749	15	.870	3,620
Santa Catarina	South	24.1	2025	15	.864	3,695
Espírito Santo	Southeast	29.7	1591	24	.836	2,103
Minas Gerais	Southeast	30.2	1591	25	.827	7,297
Rio de Janeiro	Southeast	26.6	3761	13	.870	1,890
São Paulo	Southeast	25.9	4629	6	.895	5,376
Alagoas	Northeast	79.1	868	46	.646	3,702
Bahia	Northeast	52.8	1013	48	.707	15,353
Ceará	Northeast	58.5	723	48	.677	9,673
Maranhão	Northeast	62.9	579	55	.697	7,953
Paraíba	Northeast	67.1	723	50	.672	4,702
Pernambuco	Northeast	65.3	1157	41	.723	9,831
Piauí	Northeast	53.7	434	56	.656	4,432
Rio Grande do Norte	Northeast	62.1	723	42	.723	4,075
Sergipe	Northeast	56.8	1013	40	.736	2,499
Distrito Federal	Cent-West			8		850
Goiás	Cent-West			18		4,504
Mato Grosso	Cent-West			21		2,342
Mato Grosso do Sul	Cent-West			18		1,855
Acre	North			36		717
Amapá	North			23		817
Amazonas	North			32		3,789
Pará	North			36		8,048
Rondônia	North			32		1,829
Roraima	North			26		235
Tocantins	North			41		2,507
Notes				Original data: Demographic Census of 1991		
Source		Indirect estimates (source unspecified), presumably from PNAD and/or 1996 DHS survey. Ministério da Saúde, Secretaria Executive, Datasus. Accessed May 19, 2001, at http://www.datasus.gov.br/ cgi/mortinf/mibr. htm	Original data from PNUD. IPEA. FJP. IBGE. Desenvolvimento humano no Brasil, 1970-1996. In Gondim Nogueira, C., and A. Lisboa T. R. (2000?). "Crescimento e capital humano: Evidências empíricas recentes para o Brasil numa perspectiva regional," Table 5.	David, Beatriz de Albuquerque et al. (2000?). "II Relatório de Andamento do Projeto Mão de Obra, Emprego e Demanda por Reforma Agrária." Chap. 2, p. 7. Accessed June 22, 2001, at http://www.datater ra.org.br/Documen tos/relatorio2/rela torio2frame.htm	Original data from PNUD. IPEA. FJP. IBGE. Desenvolvimento humano no Brasil, 1970-1996. In Gondim Nogueira, C., and A. Lisboa T. R. (2000?). "Crescimento e capital humano: Evidências empíricas recentes para o Brasil numa perspectiva regional," Table 4.	Brasil. Ministério da Saúde (2000a). Programa agentes comunitarios de saude. Brasilia: Secretaria Executiva, Ministério da Saúde, p. 32.