

Codebook and Introduction to the Data

Brazilian Schools Panel Database: Municipal-Level

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The database is organized as a panel spanning from 1996-2016. Numbers in brackets indicate any missing years. The municipal-level database was created by collapsing the school-level database. Do-files used in creating the data, including the municipal collapse file, are available upon request to the authors.

IDENTIFYING VARIABLES

NU_ANO_CENSO Year
CO_MUNICIPIO 7 digit municipal code ¹
CO_UF State code (numeric)
SIGLA State abbreviation
MUNIC Municipality Name [included 1996-2006)]

MUNICIPAL COMPOSITION OF SCHOOLS

SCHOOLS_NU Number of schools
SCHOOLS_FED_NU Number of federal schools
SCHOOLS_STATE_NU Number of state schools
SCHOOLS_MUN_NU Number of municipal schools
SCHOOLS_PRIV_NU Number of private schools
SCHOOLS_FED_STUD Number of federal students
SCHOOLS_STATE_STUD Number of state students
SCHOOLS_MUN_STUD Number of municipal students
SCHOOLS_PRIV_STUD Number of private students
SCHOOLS_URBAN_NU Number of urban schools
SCHOOLS_RURAL_NU Number of rural schools
SCHOOLS_URBAN_STUD Number of students in urban schools
SCHOOLS_RURAL_STUD Number of students in rural schools
SCHOOLS_NIVFUND_1_NU Number of schools providing first half of fundamental edu (Years 1-4 or 1-5)
SCHOOLS_NIVFUND_2_NU Number of schools providing second half of fundamental edu (Years 5-8 or 6-9) ²
SCHOOLS_EIGHTYEARS_NU ³ Number of schools with education on an 8-year system
SCHOOLS_NINEYEARS_NU Number of schools with education on a 9-year system

SCHOOLS_EIGHTYEARS_STUD Number of students being educated on an 8-year system
SCHOOLS_NINEYEARS_STUD Number of schools being educated on a 9-year system
MATFUND_NU Number of students in fundamental education
MATFUND_I_NU Number of students in initial years (1-4 or 1-5)
MATFUND_T_NU Number of students in terminal years (5-8 or 6-9)

SCHOOL FACILITIES

SCHOOLS_INTERNET_NU Internet (0) No (1) Yes
SCHOOLS_WATER_PUBLIC_NU Water from a public grid (0) No (1) Yes
SCHOOLS_WATER_NU Water from any source (0) No (1) Yes
SCHOOLS_ELECTR_PUB_NU Electricity from the public grid (0) No (1) Yes
SCHOOLS_ELECTR_NU Electricity from any source (0) No (1) Yes
SCHOOLS_SEWAGE_PUB_NU Sewage from the public grid (0) No (1) Yes
SCHOOLS_SEWAGE_NU Sewage from any source

TEACHERS/STAFF

PROFFUNDTOT_NU Number of teachers teaching fundamental education
PROFFUNDTOT_NU_PUB Number of teachers teaching fundamental education in public schools
PROFFUNDINC_PC Percentage of instructors teaching fundamental education who have not themselves completed fundamental education
PROFFUNDCOMP_PC Percentage of instructors teaching fundamental education whose highest level of education is fundamental education
PROFMED_PC Percentage of instructors teaching fundamental education whose highest level of education is secondary education
PROFSUP_PC Percentage of instructors teaching fundamental education with tertiary education or advanced degrees
EDUCTEACH Average years of teacher education ⁴

EDUCTEACH_PUB Average years of teacher education (Public School Teachers)

EDUCTEACH_FEDERAL Average years of teacher education (Federal teachers)

EDUCTEACH_STATE Average years of teacher education (State teachers)

EDUCTEACH_MUN Average years of teacher education (Municipal teachers)

EDUCTEACH_PRIV Average years of teacher education (Private school teachers)

RATIOS/PERFORMANCE^{5,6}

CLASSSIZE Avg Students/Turmas in fundamental edu

CLASSSIZE_I [included after 2006] Avg Students/Turmas: First half of fundamental edu

CLASSSIZE_T [included after 2006] Avg Students/Turmas: Second half of fundamental edu

CLASSSIZE_PUB Avg Students/Turmas in fundamental edu in public schools

CLASSSIZE_I_PUB [included after 2006] Avg Students/Turmas: First half of fundamental edu in public schools

CLASSSIZE_T_PUB [included after 2006] Avg Students/Turmas: Second half of fundamental edu in public schools

STUDTEACH Avg Students/Teachers in fundamental edu

RATE_APROV [missing 2000-2002] Pass Rate of students in fundamental edu

RATE_APROV_I [missing 2000-2002] Pass rate in first half of fundamental edu

RATE_APROV_T [missing 2000-2002] Pass rate in second half of fundamental edu

RATE_FAILURE [missing 2000-2002] Failure rate in fundamental edu

RATE_FAILURE_I Failure rate in first half of fundamental edu

RATE_FAILURE_T [missing 2000-2002] Failure rate in second half of fundamental edu

RATE_ABANDON [missing 2000-2002] Dropout rate in fundamental edu

RATE_ABANDON_I [missing 2000-2002] Dropout rate in first half of fundamental edu

RATE_ABANDON_T [missing 2000-2002] Dropout rate in second half of fundamental edu

RATE_TRANSFER [included before 2007] Transfer rate in fundamental edu

RATE_TRANSFER_I [included before 2007] Transfer rate in first half of fundamental edu

RATE_TRANSFER_T [included before 2007] Transfer rate in second half of fundamental edu

RATE_OVERAGE [Included 1998-2015] Rate of students older than expected age for grade level, fundamental edu

RATE_OVERAGE_I [Included 1998-2015] Rate of students older than expected age for grade level, first half of fundamental edu

RATE_OVERAGE_T I [Included 1998-2015] Rate of students older than expected age for grade level, second half of fundamental edu

RATE_APROV_PUB [missing 2000-2002] Pass Rate of students in fundamental edu in public schools

RATE_APROV_I [missing 2000-2002] Pass rate in first half of fundamental edu

RATE_APROV_T_PUB [missing 2000-2002] Pass rate in second half of fundamental edu in public schools

RATE_FAILURE [missing 2000-2002] Failure rate in fundamental edu

RATE_FAILURE_I_PUB Failure rate in first half of fundamental edu in public schools

RATE_FAILURE_T_PUB [missing 2000-2002] Failure rate in second half of fundamental edu in public schools

RATE_ABANDON_PUB [missing 2000-2002] Dropout rate in fundamental edu in public schools

RATE_ABANDON_I_PUB [missing 2000-2002] Dropout rate in first half of fundamental edu in public schools

RATE_ABANDON_T_PUB [missing 2000-2002] Dropout rate in second half of fundamental edu in public schools

RATE_TRANSFER_PUB [included before 2007] Transfer rate in fundamental edu in public schools

RATE_TRANSFER_I_PUB [included before 2007] Transfer rate in first half of fundamental edu in public schools

RATE_TRANSFER_T_PUB [included before 2007] Transfer rate in second half of fundamental edu in public schools

RATE_OVERAGE_PUB [Included 1998-2015] Rate of students older than expected age for grade level, fundamental edu in public schools

RATE_OVERAGE_I_PUB [Included 1998-2015] Rate of students older than expected age for grade level, first half of fundamental edu in public schools

RATE_OVERAGE_T_PUB [Included 1998-2015] Rate of students older than expected age for grade level, second half of fundamental edu in public schools

TEST SCORES

PROVA_MEAN_PORT_I [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 4th grade
PROVA_MEAN_PORT_T [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 8th grade
PROVA_MEAN_MAT_I [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 4th grade
PROVA_MEAN_MAT_T [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 8th grade
PROVA_MEAN_PORT_I_PUB [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 4th grade public schools
PROVA_MEAN_PORT_T_PUB [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 8th grade
PROVA_MEAN_MAT_I_PUB [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 4th grade public schools
PROVA_MEAN_MAT_T_PUB [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 8th grade public schools
PROVA_MEAN_PORT_I_STATE [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 4th grade state schools
PROVA_MEAN_PORT_T_STATE [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 8th grade
PROVA_MEAN_MAT_I_STATE [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 4th grade state schools
PROVA_MEAN_MAT_T_STATE [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 8th grade state schools
PROVA_MEAN_PORT_I_MUN [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 4th grade municipal schools
PROVA_MEAN_PORT_T_MUN [2005, 2007, 2009, 2011] School average Portuguese score on Prova Brasil, 8th grade
PROVA_MEAN_MAT_I_MUN [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 4th grade municipal schools
PROVA_MEAN_MAT_T_MUN [2005, 2007, 2009, 2011] School average Math score on Prova Brasil, 8th grade MUN schools

¹ In pre-2006 data, the municipal codes were 12 digits. Current municipal codes are made of the first 2 + last 5 digits of this code

² The sum of **SCHOOLS_NIVFUND_1_NU** and **SCHOOLS_NIVFUND_2_NU** does not add up to **SCHOOLS_NU** because some schools have both initial and terminal education within the same school

³ The education census does not provide instructions about how schools should consider the eight-year and nine-year questions; as a consequence, some schools double-counted students they considered to be both in the eight-year and nine-year systems

⁴ Average teacher education was calculated using a weighted average with the number of professors in each category:

15 * Supplemental Edu

11 * Secondary Edu

8 * Primary Edu

0 * Incomplete

⁵ Before 2007, Class size, pass/fail/dropout rates, and overage rates are calculated manually from school census data. After 2006, these ratios are merged from Indicadores Educacionais

<http://portal.inep.gov.br/indicadores-educacionais>

⁶ Because averages are calculated at the municipal level and weighted by number of students, overall ratios may be higher than those calculated for both just initial and just terminal years