Overview

Pre-background on Fertility in Brazil

The current panorama of fertility in Brazil

Theoretical approaches

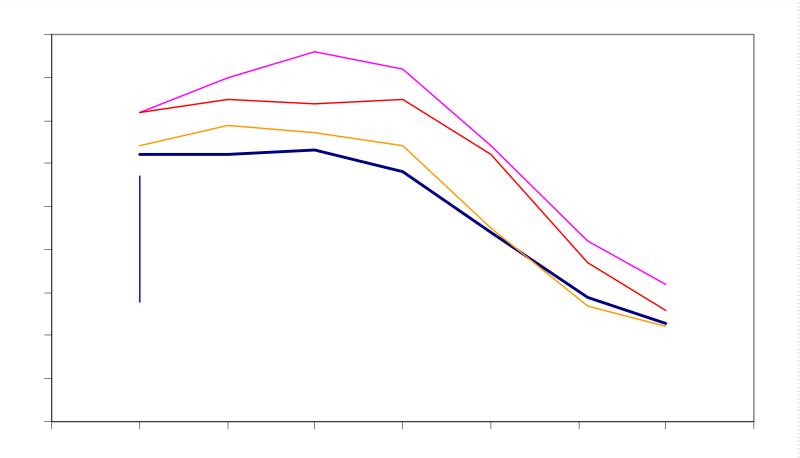
Data and methods

Results

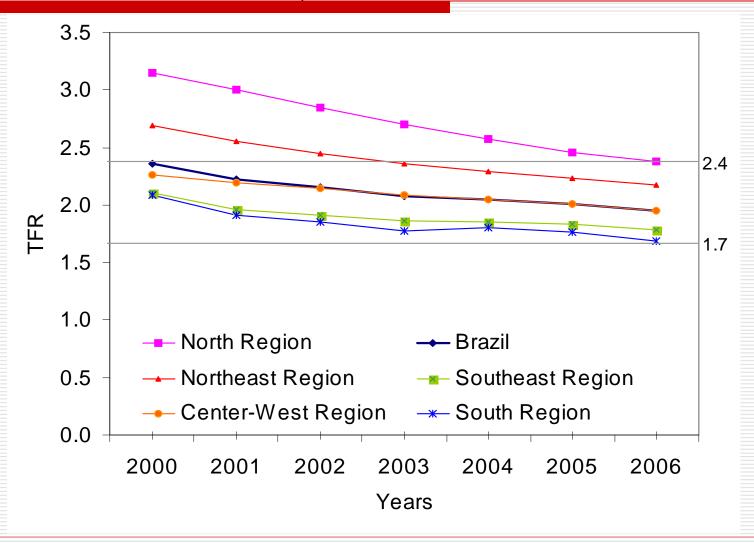
Discussion



Total Fertility Rates by regions. Brazil, 1940 to 2000.



Total Fertility Rates by regions. Brazil, 2000 to 2006.



Sources: DATASUS, IDB 2008. Brazilian Demographic Census 2000; National Annual Household Surveys (PNAD) of 2001 & 2006.

Current panorama of Brazilian fertility: what we know?

- 1. TFR is below replacement level for the country (1.8 to 1.9 children per women)
- 2. There are large differentials by socioeconomic groups in TFR (ranging from about 4 to 1 children)
- 3. There are smaller differentials at regional levels in TFR (2.4 to 1.7 children)
- 4. Fertility is concentrated at ages below 29
- 5. High ASFR for women aged 15-19 (high adolescent and young motherhood average about 80 children per thousand women)
- Large socioeconomic differentials for adolescent motherhood (28 per thousand for wealthier to 220 for the poorest)
- 7. High prevalence of contraception (80% of current use and 72% is modern contraception hormonal + female sterilization)
- 8. High incidence of birth interruption (figures are not certain but it ranges from (1 abortion to each 4 births to 1 to each 3 births)

(600,000 to 1,000,000 yearly to 3,000,000 births)

What is (and will be) the future path of low and lowest-low fertility in Brazil? - Brief approaches.

Bongaarts the lowest-low fertility is due the momentum (quantum vs timing of fertility) – there is a postponement of birth cohort fertility will be at replacement level or around it at the end of reproductive life.

Lesthaeghe and others

Objective

The objective is to investigate whether the timing of childbearing in Brazil has the same pattern: having fewer children and having them early, for several socioeconomic groups, in order to predict the path of fertility in the future in Brazil, and to understand why and how the fertility schedule is so different from other low fertility experiences.

Data and methods

Data: for TFR and ASFR calculations from:

Demographic Census

Population and household annual surveys (PNAD)

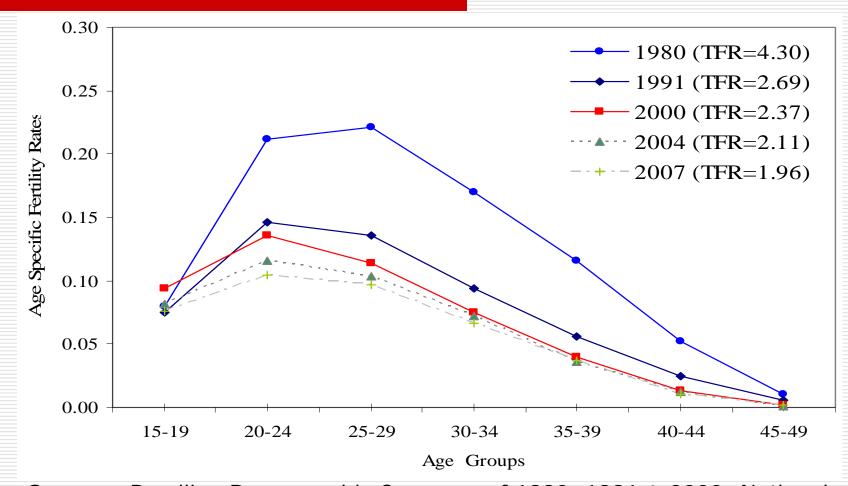
Demographic and Health Surveys (PNDS=DHS)

Method

For Census and PNAD data: indirect method (P/F Brass)

For DHS: direct method as average of previous 5-years

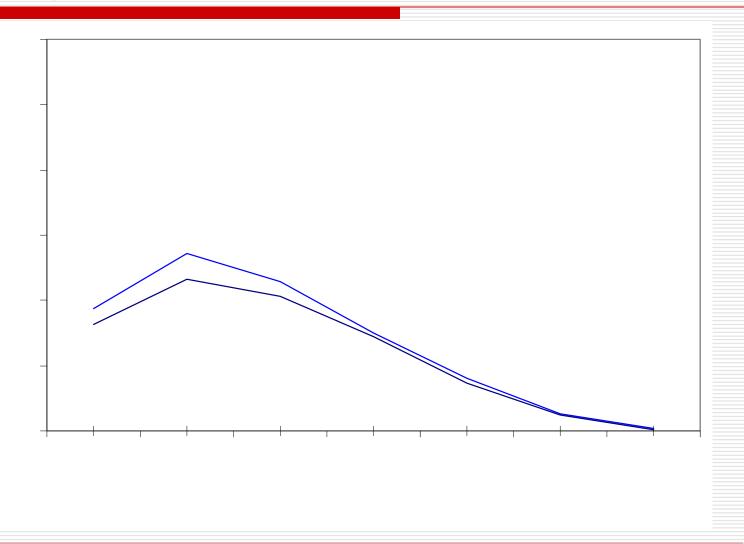
ASFR and TFR, Brazil, 1980, 1991, 2000, 2004, and 2007.



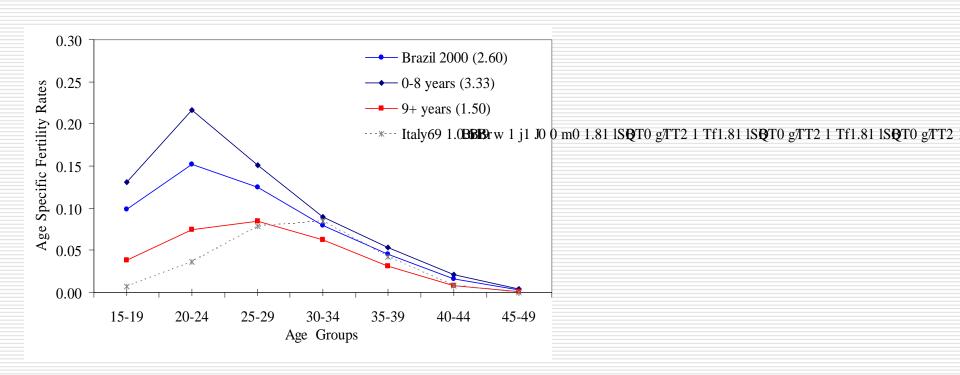
Sources: Brazilian Demographic Censuses of 1980, 1991 & 2000; National Annual Household Surveys (PNAD) of 2004 & 2007.

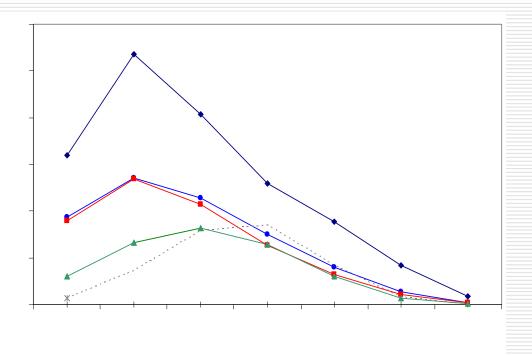
Note: Comparison on Census and PNAD data must be taken with care.

ASFR (and TFR between parenthesis) in selected countries, circa 2000-2007.

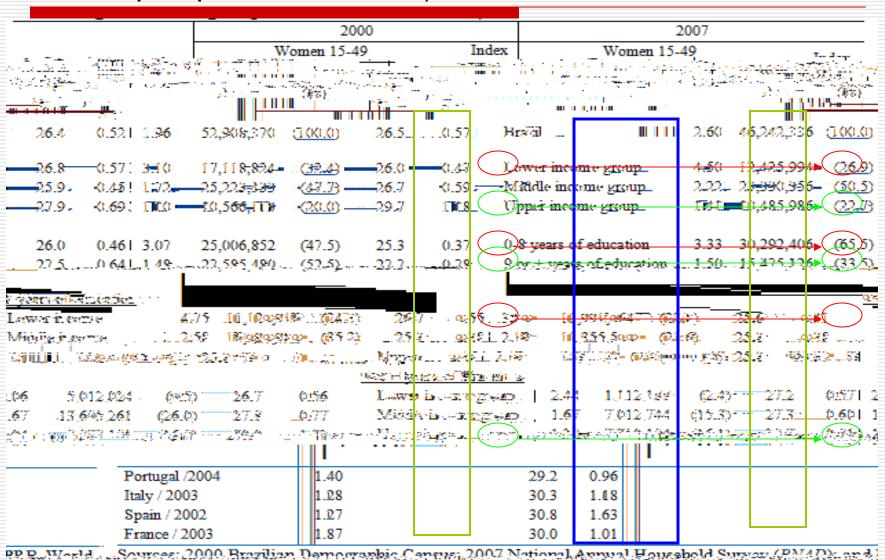


ASFR by women's education, Brazil, 2000 and 2007.

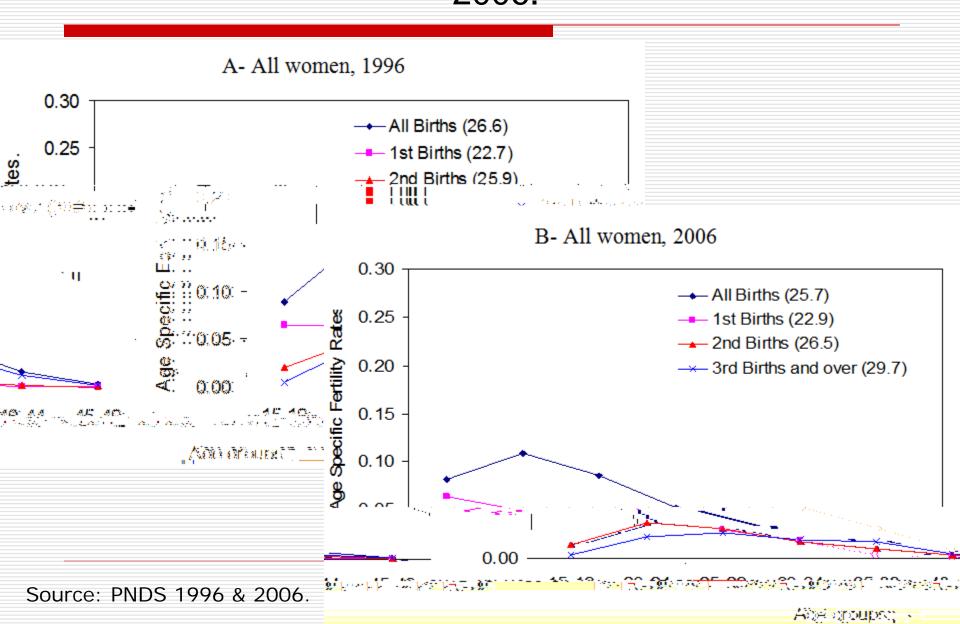




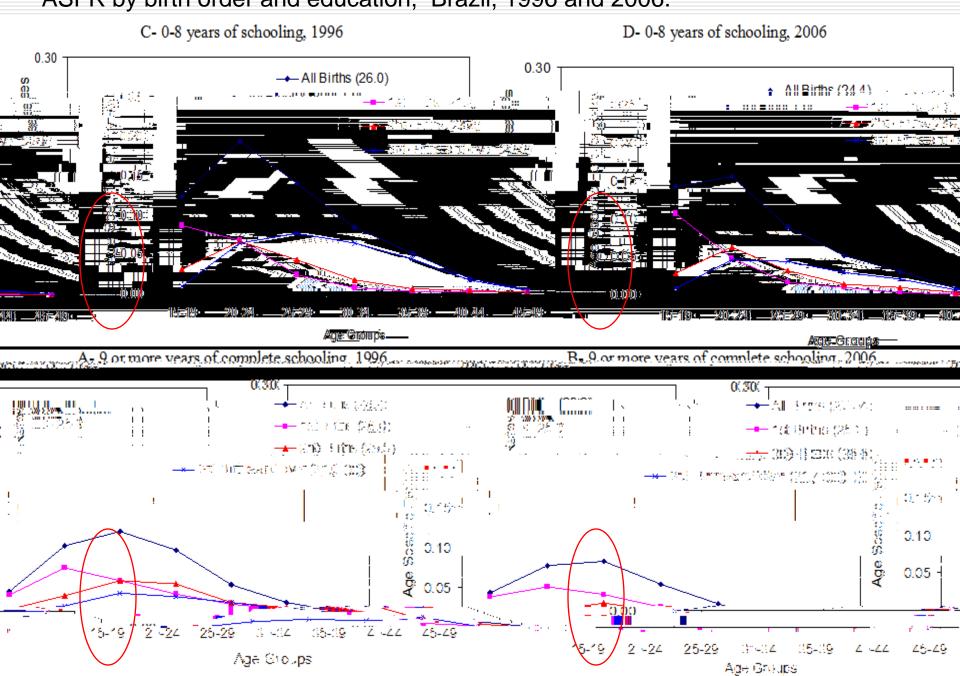
Selected indicators (TFR, Average age of fertility and postponement index), Brazil 2000 and 2007.



ASFR by birth order and education, Brazil, 1996 and 2006.



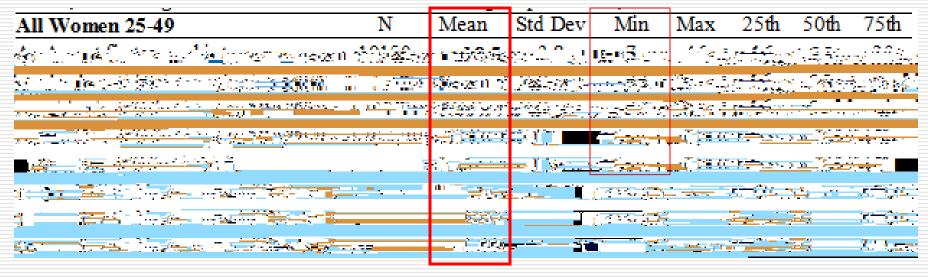
ASFR by birth order and education, Brazil, 1996 and 2006.



Summary statistics on ages at sexual intercourse initiation, union, first birth (first contraceptive use and first pregnancy), Brazil, 1996 and 2006.



2006



18

Summary statistics on ages at sexual intercourse initiation, union, first birth (first contraceptive use and first pregnancy) for women aged 25-49 with 0-8 years of schooling, Brazil, 1996 and 2006.

1996

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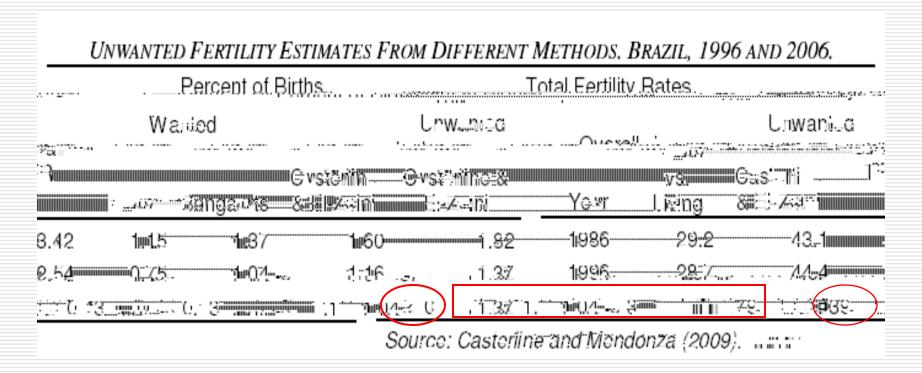
2006

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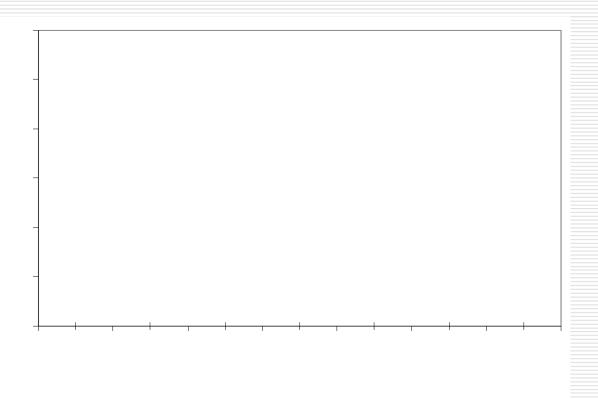
Source: Source: Brazilian Demographic Health Survey, 1996 and 2006

Is there still room for fertility decline?

Looking at estimates of unwanted (or wanted) fertility, the answer is YES... it will continue to decline next years.



Lets see again some of the current patterns of fertility and levels...



Closing: TFR and ASFR model for Brazil

Brazilian future fertility has three more probable path to follow:

- Mediterranean country
 Lowest-low fertility levels
 Later on timing of childbearing
- American Model (and some Northern Europe countries)
 TFR around replacement level
 Young timing of childbearing (ages 20-24 and 25-29)
- A mixture of both
 Lowest-low fertility levels
 Young timing of childbearing (ages 20-24 and 25-29)

Our take to where Brazilian Fertility will go: Model 3

Lowest-low fertility levels

Young timing of childbearing, but at **ages15-19 and 20-24** in the short and medium period (next 10 to 15 years) ... then some postponement will take place bringing TFR even lower.

The future of population in Brazil will depend on both:

- 1. The lowest-low levels of TFR
- 2. Young fertility schedules regimes

Future work: The impacts of lowest-low levels of TFR on a rejuvenated schedule of fertility in the **population growth and age structure**.

Thanks!