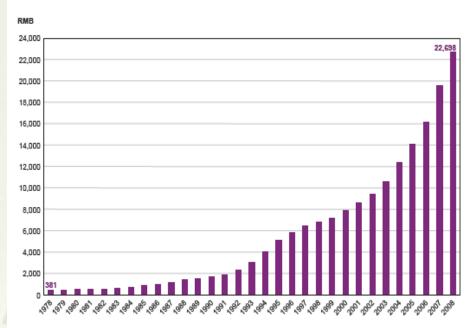
Child Poverty and Wellbeing in China A Multidimensional Deprivation Approach

DI QI & YICHAO WU University of Bristol



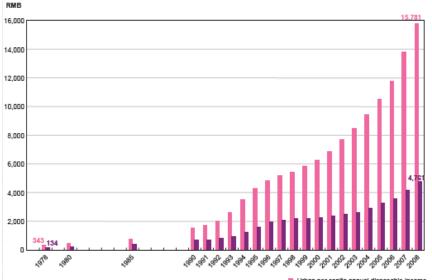
China has achieved great progress after 1978 the economic reform. Per capita GDP and Per capita income increased dramatically

GDP per capita, 1978-2008



Source: National Bureau of Statistics, China Statistical Yearbook, 2009

Per capita income, urban and rural, 1978-2008



Source: National Bureau of Statistics, China Statistical Yearbook, 2009

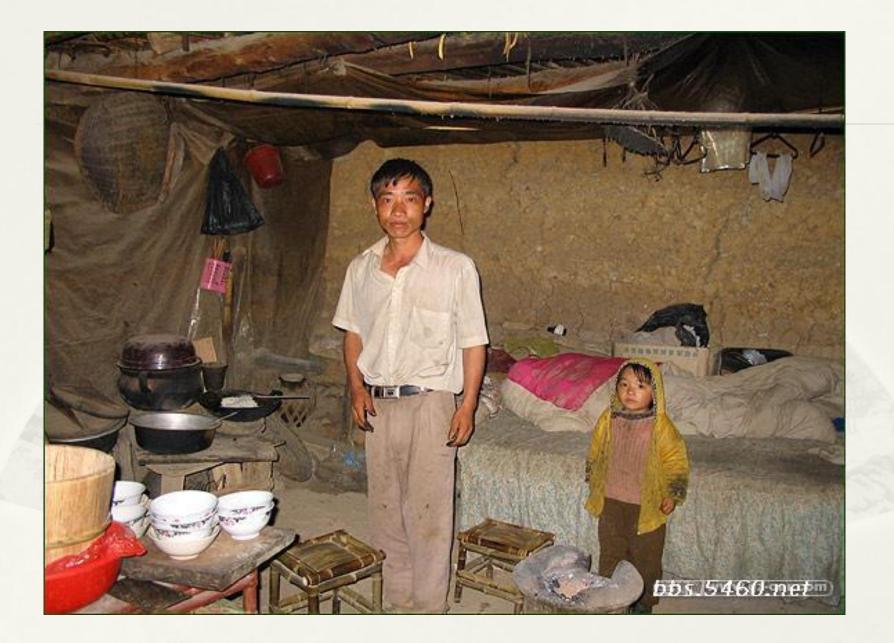
Urban per capita annual disposable income
Rural per capita annual net income

But in some areas children's living conditions still remain low standard













Human-rights Based deprivation approach

- Universal Framework: Convention on the Rights of Child (UNCRC, 1989)
- Poor children are deprived of nutrition, water and sanitation facilities, access to basic health-care services, shelter, education, participation and protection....(definition by UN)

Human-rights Based deprivation approach

Positive Approach – Mental, Material, Subjective, Psychosocial....

Deprivation Approach- Negative, Multidimensional Material living conditions

Research Questions

- How to choose the original deprivation dimensions and indicators to measure child poverty and wellbeing in China?
- How to test the original deprivation indicators are valid, reliable, additive or scientific?
- How child poverty and well-being in China changes from 1989 to 2009 and differs among regions?

Objectives

 Use existing longitudinal and cross sectional survey data to build scientific deprivation indicators

 Measure the living standards of children and produce estimates of child poverty in China across time and space.

Choose Original MD indicators

 MD indicators should be informative of childrelated problems or issues

 MD indicators should be customary and commonly accepted as 'necessities' in the given society

MD indicators reflect financial constrains

Choose Original MD indics

Theoretical Support

Previous Research Universal agreed human rights (UNCRC, 1989) Human development goals(MDGs, 2004)

Deprivation Dimensions

- Food/Nutrition
- Water
- Sanitation facilities
- Shelter
- Education
- Health
- Information
- Consumer Durbales
- Leisure Activities

Food/Nutrition

1. Three meals a day

2. Malnutrition/Anthropometric Failure heights, weights<2SD

Water

3. Improved Water source

can't obtain tap water (Zou and Fang, 211) and water source is not ground water (>5m) or water plant (Wang and Alkire, 2010)

Sanitation Facilities

4. Toilet Facilities in or near home

no flush, in-house toilet (Zou and Fang, 2012)

5. Processed cooking fuel

use coal, kerosene, wood, sticks/straw, charcoal

Shelter

6. Overcrowding

international criteria: >3 people per room

7. Dwelling Quality Mud floor

8. Lighting No electricity

Education

9. Not currently attending school

Health

10. Immunization

not fully immunized

11. Needed Medicines/Drugs

Information

12.Black/White or Colour TV

13. Computer

Consumer Durables

- * 14.Telephone/Cell phone
- 15.Washing machine,
- * 16.refrigerator
- * 17.bicycle/motorcycle/car

Leisure Activities

* 18.Indoor activities

* 19.Outdoor activities

Data

- China Health and Nutrition Survey data
- Waves included 1989, 1991, 1993, 1997, 2000, 2004, 2006, 2009
- Nine Provinces with different demographic, socioeconomic situations in China
- Comprehensive information on health, education, nutrition, housing conditions, child-related activities, etc.

Data



2012-9-13

Validity

Logistic Regression

 Independent variable: Household income per capita

Dependent variable: MD indicators

Validity Test Results

1.Three meals a day

- * 2.Malnutrition
- * 3.Improved Water
- 4.Toilet facilities
- * 5.Processed Fuel
- 6.Overcrowding
- 7.Dwelling Quality
- * 8.Lighting
- 9. At school

- 10.Immunization
- * 11.Need Medicines
- * 12.TV
- * 13.Computer
- * 14.Phone
- 15.Washing Machine
- * 16.Refrigerator
- * 17.Transport
- 18.Indoor Activities
- * 19.Outdoor Activities

Reliability

Cronbach's Alpha: internal consistency

 If removing one indicator results in an increased Alpha value, the indicator can be regarded as an unreliable item

Reliability Test Results

- * 3.Improved Water
- 4.Toilet facilities
- * 5.Processed Fuel
- * 6.0vercrowding
- 7.Dwelling Quality
- 8.Lighting
- * 9. At school

* 12.TV

- * 13.Computer
- * 14.Phone
- 15.Washing Machine
- * 16.Refrigerator
- * 17.Transport

Additivity

 Those suffer from two deprivations are more deprived (poorer) than those suffering from only one.

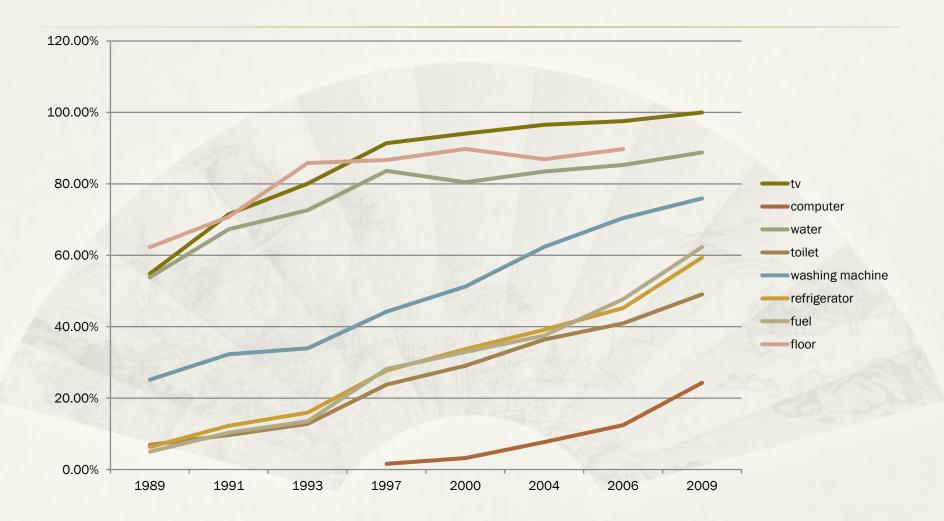
Additivity

- * 3.Improved Water
- 4.Toilet facilities
- * 5.Processed Fuel
- 7.Dwelling Quality
- * 12.TV
- * 13.Computer
- * 15.Washing Machine
- * 16.Refrigerator
- 17.Transport

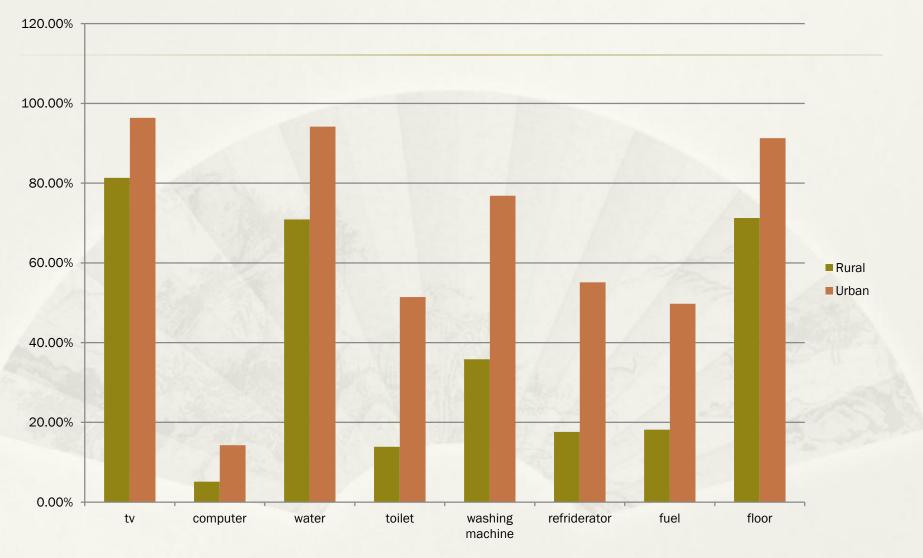
Final List of MD indics

- Improved Water
- Toilet facilities
- Processed Fuel
- Dwelling Quality
- * TV
- Computer
- Washing Machine
- Refrigerator

General trend of children's material living conditions from 1989 to 2009

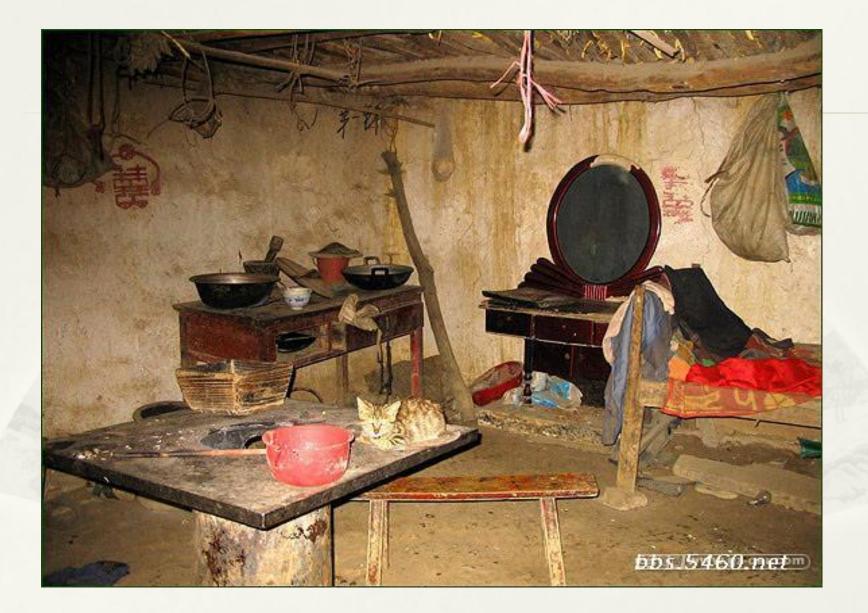


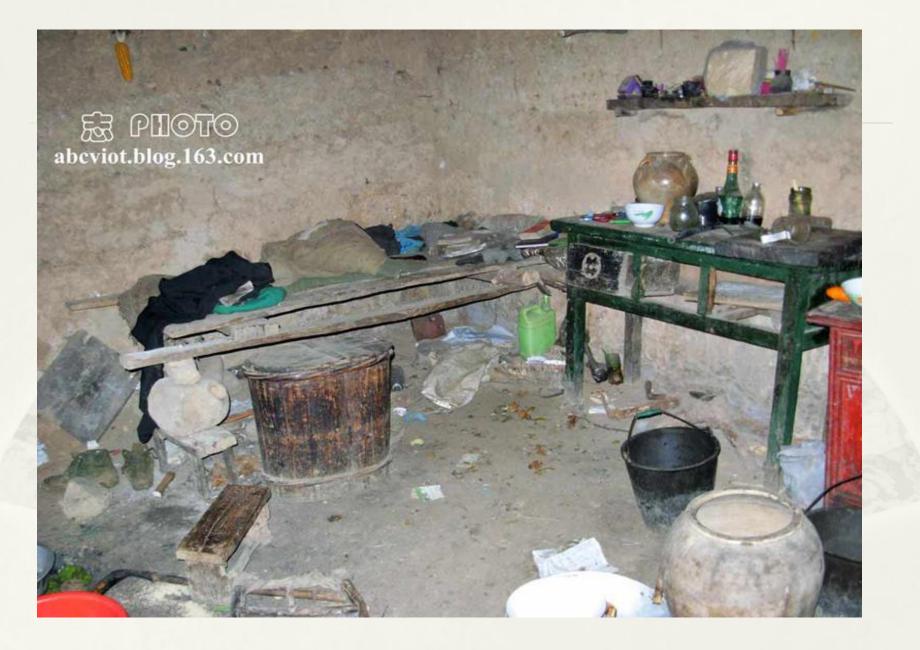
Rural-Urban differences on children's material living conditions (average)









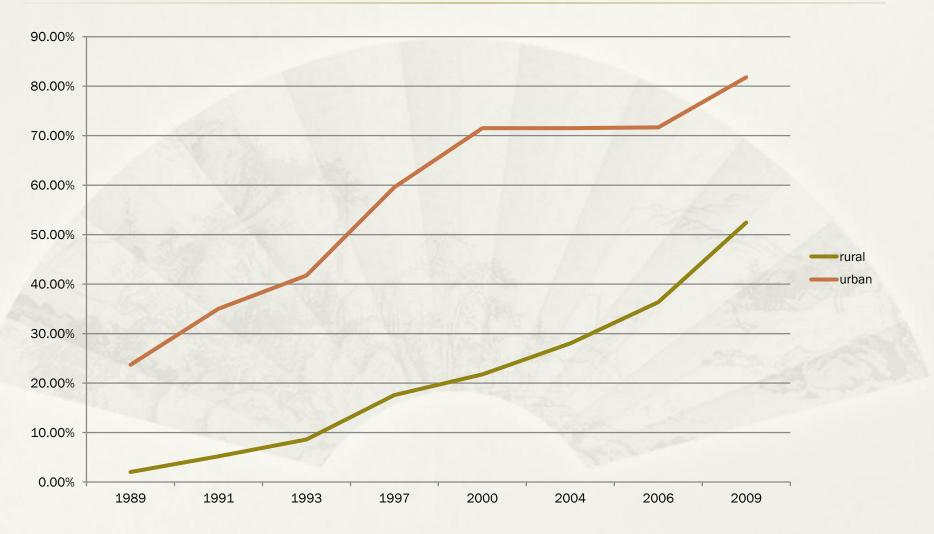




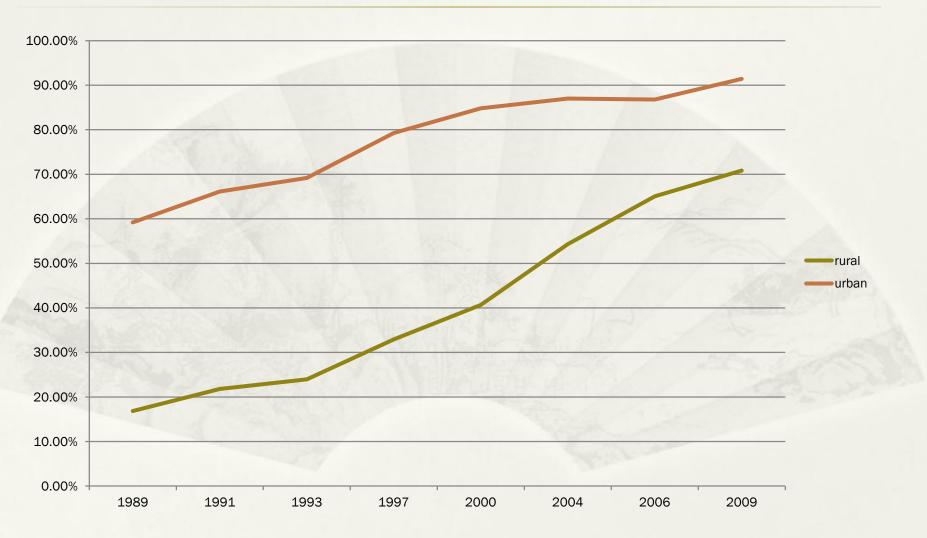
Rural-Urban trend of children's deprivation on Toilet Facilities from 1989 to 2009



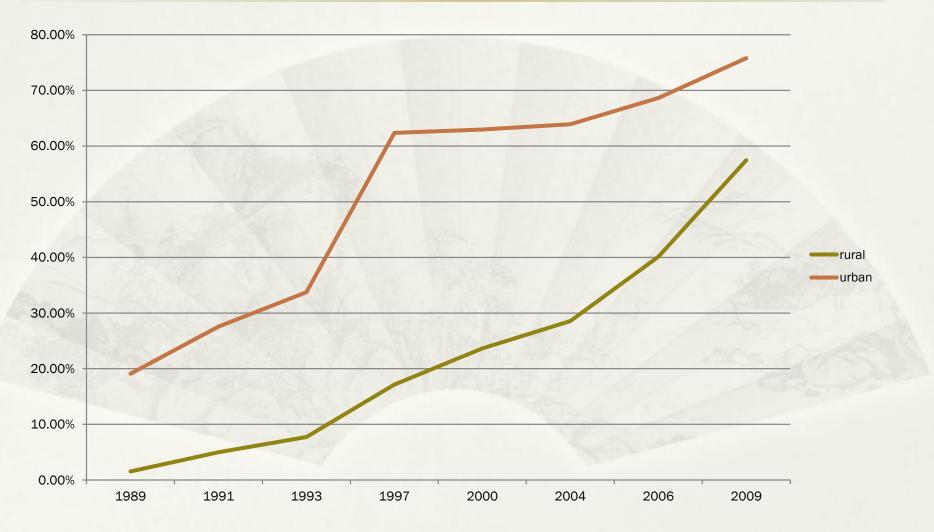
Rural-Urban trend of children's deprivation on Refrigerator from 1989 to 2009



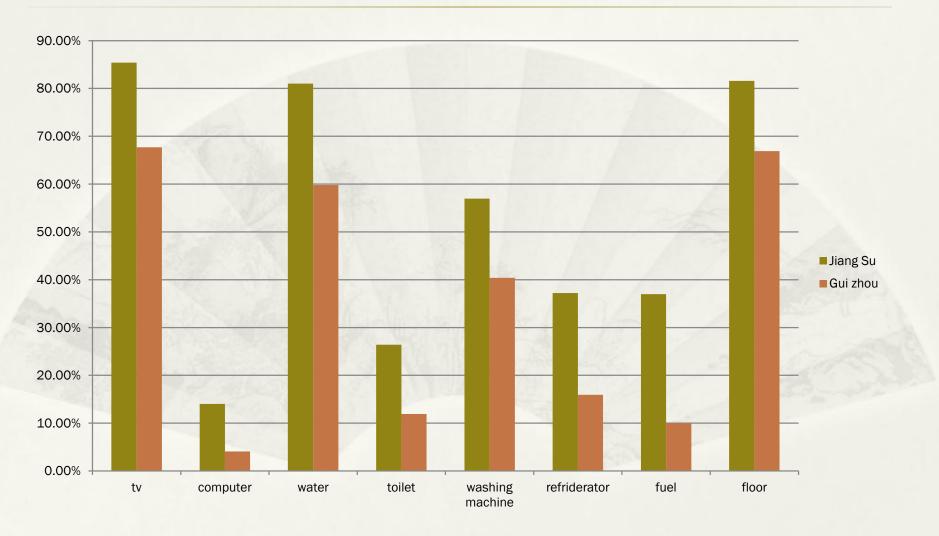
Rural-Urban trend of children's deprivation on Washing Machine from 1989 to 2009



Rural-Urban trend of children's deprivation on Fuel from 1989 to 2009



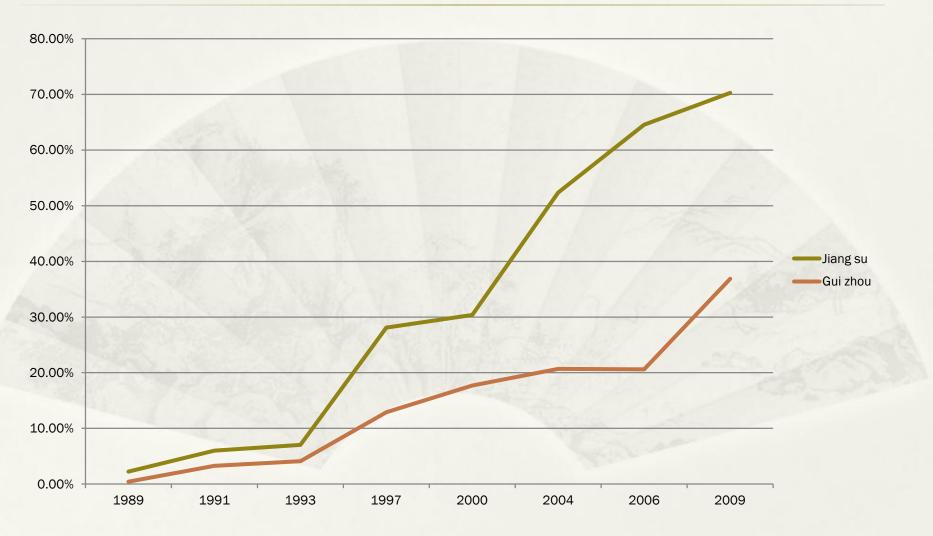
Provincial differences on children's material living conditions (average)



Provincial differences of children's deprivation on Water from 1989 to 2009

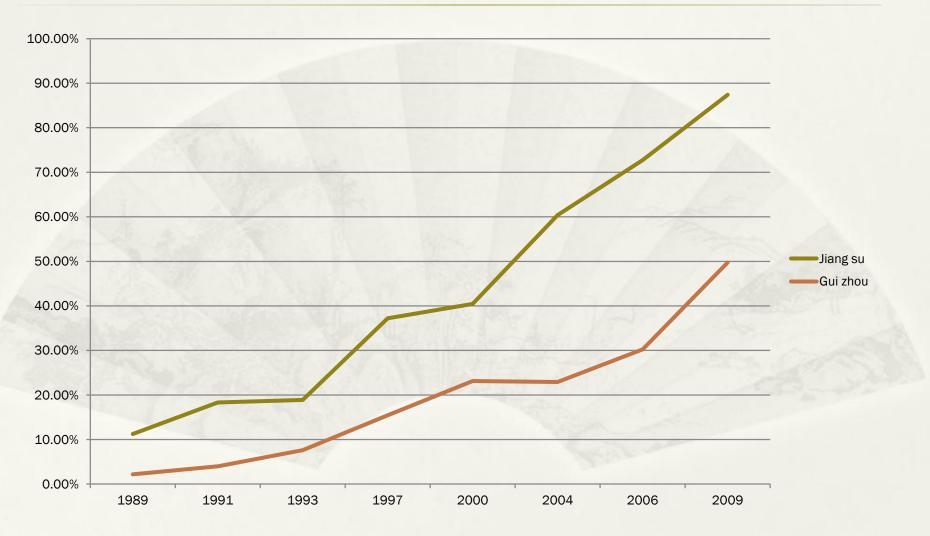


Provincial differences of children's deprivation on Toilet from 1989 to 2009

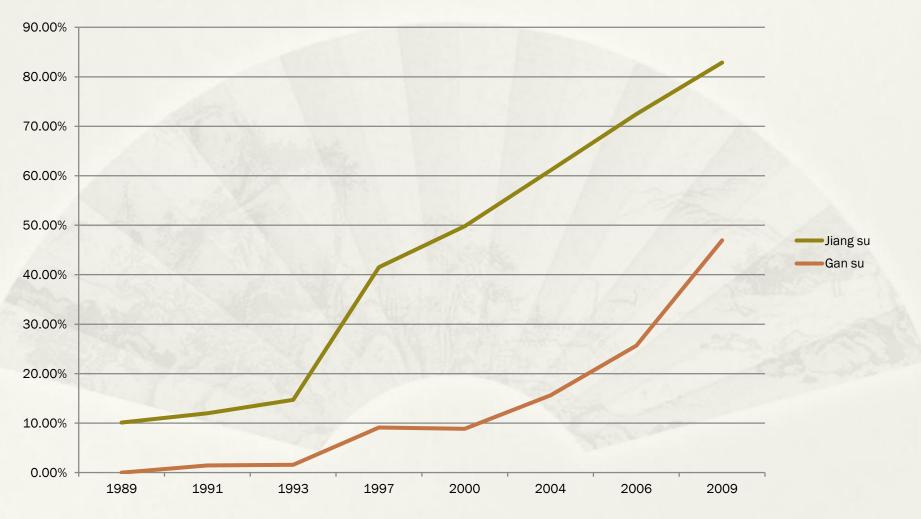


2012-9-13

Provincial differences of children's deprivation on Refrigerator from 1989 to 2009



Provincial differences of children's deprivation on Fuel from 1989 to 2009



Conclusion

 1. In general, children's overall wellbeing in China has been improved greatly across time

 Regional disparities are also significant which needs well attention

Thank you