

© 2000 International Monetary Fund

WP/00/42
Corrected: 6/5/00

IMF Working Paper

June 5, 2000

Subject: **Educational Choices and Educational Constraints: Evidence from Bolivia**

<p>The views expressed in this Working Paper are those of the author(s) and do not necessarily represent those of the IMF or IMF policy. Working Papers describe research in progress by the author(s) and are published to elicit comments and to further debate.</p>
--

CORRIGENDUM

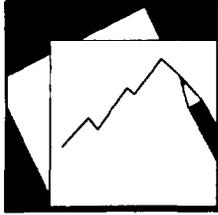
The attached cover page and pages 1 and 2 of WP/00/42 (March 2000) are reissued to correct a few typographical errors.

Att: (3)

Other Distribution:
Department Heads
Division Chiefs

WP/00/42

Corrected: 6/5/00



IMF Working Paper

Educational Choices and Educational Constraints: Evidence from Bolivia

Gabriela Inchauste

IMF Working Paper

Fiscal Affairs Department

Educational Choices and Educational Constraints: Evidence from Bolivia

Prepared by Gabriela Inchauste¹

Authorized for distribution by Sanjeev Gupta

March 2000

Abstract

The views expressed in this Working Paper are those of the author(s) and do not necessarily represent those of the IMF or IMF policy. Working Papers describe research in progress by the author(s) and are published to elicit comments and to further debate.

Recent efforts at poverty alleviation emphasize increasing government spending on education. However, even if spending were perfectly targeted, it is not evident that spending by itself will lead to higher educational attainment. Bolivian household data is used in this paper to ascertain the probability of an individual quitting school due to financial or other reasons. Simulations show that government cash transfers can help to improve educational attainment somewhat. However, nonmonetary limitations must also be addressed if educational attainment is to improve significantly, in particular, for indigenous women who have the lowest levels of education in the country.

JEL Classification Numbers: I20, H52

Keywords: Education, cash transfers, education spending, hazard model, Bolivia

Author's E-Mail Address: minchauste@imf.org

¹ The author is grateful to Sanjeev Gupta, Daniel Slesnick, Daniel Hamermesh, Gerald Oettinger and Eva Gutierrez for helpful comments on earlier drafts of this paper. All errors and omissions are the author's sole responsibility.

Contents	Page
I. Introduction.....	3
II. Theoretical Model	4
III. Characteristics: Bolivia.....	7
IV. Econometric Model	9
V. Data and Summary Statistics	12
A. Constrained and Unconstrained Individuals.....	13
VI. Results.....	17
A. Logit	17
B. Hazard.....	20
C. Simulation Results.....	27
VII. Summary and Conclusions	28

Tables

1. Social Indicators and Government Social Expenditure.....	8
2. Sample of School-Age Men and Women	15
3. Constrained and Unconstrained Individuals	18
4. Maximum Likelihood Results.....	19
5. Fitted Probability Values	21

Figures

1. Investment in Human Capital.....	6
2. Human Capital Investment: Changes in Demand and Supply.....	6
3. Histogram of Educational Achievement for Nonindigenous Men.....	15
4. Histogram of Educational Achievement for Indigenous Men	15
5. Histogram of Educational Achievement for Nonindigenous Women.....	16
6. Histogram of Educational Achievement for Indigenous Women.....	16
7. Hazard Rates for Single Women.....	23
8. Hazard Rates for Nonindigenous Single Men and Women.....	23
9. Hazard Rates for Indigenous Married Men and Women Who are Heads of Households.....	24
10. Hazard Rates for Nonindigenous Married and Single Women.....	24
11. Simulation Results for Single Indigenous Women	25
12. Simulation Results for Married Indigenous Women.....	25
13. Simulation Results for Unconditional Hazards for Married Men.....	26
14. Simulation for Unconditional Hazards for Married Women	26

Appendix I Sensitivity Analysis: Probability of Being Constrained	30
---	----

Appendix Table

6. Sensitivity Analysis: Probability of Being Constrained.....	31
--	----

References	34
------------------	----