

INDICE

Foreword	Xvii
Acknowledgments	Xix
1. THE TRUTH ABOUT PRIVATIZATION IN LATIN AMERICA Alberto Chong and Florencio López-de-Silanes	1
2. THE BENEFITS AND COSTS OF PRIVATIZATION IN ARGENTINA: A MICROECONOMIC ANALYSIS Sebastián Galiani, Paul Gertler, Ernesto Schargrotsky, and Federico Sturzenegger	67
3. PRIVATIZATION AND FIRM PERFORMANCE IN BOLIVIA Katherina Capra, Alberto Chong, Mauricio Garrón, Florencio López-de-Silanes, and Carlos Machicado	117
4. COSTS AND BENEFITS OF PRIVATIZATION: EVIDENCE FROM BRAZIL Francisco Anuatti Neto, Milton Barossi Filho, Antonio Gledson de Carvalho, and Roberto Macedo	145
5. THE EFFECTS OF PRIVATIZATION ON FIRMS: THE CHILEAN CASE Ronald Fischer, Rodrigo Gutiérrez, and Pablo Serra	197
6. PRIVATIZATION IN COLOMBIA: A PLANT PERFORMANCE ANALYSIS Carlos Pombo and Manuel Ramírez	275
7. PRIVATIZATION IN MEXICO Alberto Chong and Florencio López-de-Silanes	349
8. PERUVIAN PRIVATIZATION: IMPACTS ON FIRM PERFORMANCE Máximo Torero	407
Acronyms and Abbreviations	479
Index	483
FIGURES	
1.1 Economic Activity of State-Owned Enterprises, 1978-97	4
1.2 Revenues from Privatization in Latin America, 1990-2000	7
1.3 Availability of Privatization Data on Latin America	16
1.4 Profitability Changes after Privatization in Latin America	20
1.5 Operating Efficiency Changes after Privatization in Latin America	21
1.6 Percentage Changes in Employment after Privatization in Latin America	22
1.7 Median Changes in Output after Privatization in Latin America	24
1.8 Net Income to Sales Gap between Privatized and Private Firms before and after Privatization	25
1.9 Cost per Unit Gap between Privatized and Private Firms before and after Privatization	26

1.10 Median Real and Industry*Adjusted Changes in Wages after Privatization	30
1.11 Transfers from Workers as a Percentage of Increased Profitability after Privatization	31
1.12 Median Changes in Profitability of Privatized Firms in Competitive and Noncompetitive Industries in Latin America	33
1.13 Changes in Employment and Output of Privatized Firms in Competitive and Noncompetitive Industries in Latin America	35
1.14 Rehiring after Privatization, by Region	48
2.1 Percentage of Accumulated Income from Privatizations, 1990*98	73
2.2 Logarithm of Population Connected to the Water Network and Fitted Values, Aguas Argentinas, 1980*99	93
2.3 Displaced Workers' Earnings Rents: 1991 and 2001	102
4.1 Formal Employment before and after Privatization, 1995*99	166
5A.1 Cost per Unit before and after Privatization, Adjusted and Unadjusted	251
5A.2 Investment as a Fraction of Physical Assets (PPE) before and after Privatization, Adjusted and Unadjusted	254
5A.3 Investment as a Fraction of Sales before and after Privatization, Adjusted and Unadjusted	257
5A.4 Net Income as a Fraction of Physical Assets before and after Privatization, Adjusted and Unadjusted	260
5A.5 Operating Income as a Fraction of Physical Assets before and after Privatization, Adjusted and Unadjusted	262
5A.6 Operating Income as a Fraction of Sales before and after Privatization, Adjusted and Unadjusted	264
6.1 Markup Rates for IFI Sample and Total Manufacturing, 1970*98	298
6.2 Total Factor Productivity Indexes for IFI Sample and Total Manufacturing, 1970*98	300
6.3 Investment Rates for IFI Sample and Total Manufacturing, 1970*98	301
6.4 Labor Productivity Indexes, IFI Sample and Total Manufacturing, 1970*98	303
6.5 Thermal Capacity versus Thermal Generation, 1991*99	312
7.1 Gap between Privatized Firms and Private Firms	358
7.2 The Overall Fiscal Impact of Privatization	369
7.3 Total Net Debt of the Public Sector	371
7.4 Deregulation Actions Taken before Privatization	381
7.5 Mexican Banks' Profitability Indicators before and after Privatization	383
7.6 Mexican Banks' Performance Indicators before and	384

after Privatization	
7.7 Terms of Related and Unrelated Loans	387
7.8 Default and Recovery Rates: Related and Unrelated Loans	388
7.9 Market Capitalization as Percentage of GDP and Number of Companies Listed in the Mexican Stock Exchange	390
8.1 Evolution of the Privatization Process, 1991*2000	414
8.2 Privatization Revenues by Sector, 1991*99	415
8.3 Privatization Process Progress, 1991*2000	416
8.4 Public Approval of Privatization, 1991*2000	417
8.5 Evolution of Performance Indicators	428
TABLES	
1.1 Proceeds from Privatization in Developing Countries, 1990*99	5
1.2 Recent Studies on Firm Performance after Privatization in Latin America	9
1.3 Reasons for Firm Exclusion from the Privatization Sample	18
1.4 Labor Restructuring before Privatization, by Region	44
1.5 Labor Restructuring and Privatization Prices in Latin America	45
1.6 New Hires and Rehires in Privatized Firms in Latin America	50
2.1 Privatization Revenues in Argentina, by Sector	72
2.2 Nonfinancial Companies Included in the Database	75
2.3 Nonfinancial Privatizations in Argentina Not Included in the Database	77
2.4 Privatized Banks in Argentina: Included in the Database	79
2.5 Changes in Profitability for the Sample of Nonfinancial Privatized Firms	82
2.6 Changes in Performance for the Sample of Nonfinancial Privatized Firms	83
2.7 Changes in Profitability for the Sample of Privatized Banks	88
2.8 Changes in Performance for Privatized Public Banks	89
2.9 Access to Water and Sewerage Services, 1991	92
2.10 Difference in Difference of the Proportion of Households with Access to Water Connection, 1991*97	94
2.11 The Effect of Privatization on Child Mortality Rates, 1990*99	96
2.12 The Effect of Privatization on Displaced Workers' Earnings Flows	101
2B.I Description of the Variables Used to Evaluate the Impact of Privatization on the Performance of Nonfinancial	109

Firms	
2B.2 Description of the Variables Used to Evaluate the Impact of Privatization on the Performance of Financial Firms	111
3.1 Common Objectives for Privatizations	119
3.2 Reasons for Excluding Firms from the Sample	129
3.3 Changes in Performance of the Sample of Privatized Firms on Bolivia	131
3.4 Industry*Adjusted Changes in Performance for the Sample of Privatized Firms	135
3A.1 List of Privatized Firms, 1992*2001	137
3A.2 Description of the Variables Used in Tables 3.3 and 3.4	139
4.1 Description of the Privatization Program and Coverage of the Sample, 1991*2000	150
4.2 Privatized Brazilian Companies by Industry. Classification	152
4.3 Summary of Results	153
4.4 Changes in Performance: GMM*IV Panel Data Analysis	159
4.5 Employment in Selected Industries, by Public or Private Ownership, 1995*99	164
4A.1 Federal State Enterprises Privatized, 1991*2000	175
4A.2 Companies Privatized by BNDES on Behalf of Brazilian States, Minority Shares Privatized by Federal Government, and Sao Paulo State Privatization Program	180
4A.3 Remaining State*Owned Enterprises	182
4B.1 Description of the Variables	184
4C.1 Change in Performance: Tests of Means and Medians (Two Years before Privatization versus Two Years after, without Adjustment)	186
4C.2 Change in Performance: Tests of Means and Medians (Two Years before Privatization versus Two Years after, with Adjustment)	188
4C.3 Change in Performance: Tests of Means and Medians (All Years before and after Privatization, without Adjustment)	189
4C.4 Change in Performance: Tests of Means and Medians (All Years before and after Privatization, with Adjustment)	191
4D.1 Definition of the Control Variables Included in the Vector of the Econometric Model	192
5.1 Nationalization and Privatization of Firms in Chile, 1970*2001	199
5.2 State*Owned and State*Seized Firms, 1970*2001	204
5.3 Number of State*Owned Firms, by Year, 1973*2001	205
5.4 Privatized State*Owned Enterprises, 1972*2001	207

5.5 Revenues from Privatization of Chilean Public Enterprises, 1985*89	210
5.6 Net Income to Equity for Privatized Firms before Privatization, 1970*86	216
5.7 Employment Changes in Privatized Firms, 1970*92	220
5.8 Privatization of Chilean Telecommunications Firms, 1984*89	221
5.9 Privatization of Electric Power Firms, 1984*89	222
5.10 ENDESA: Investment, Power Generation, and Labor Productivity	228
5.11 Chilectra: Sales, Employees, Labor Productivity, and Energy Loss	229
5.12 Change in Node Prices and Residential Rates	229
5.13 Profits of the Main Electric Sector Companies: 1987*2000	231
5.14 Telecommunications Statistics, 1987*2000	232
5.15 Telefónica*CTC: Basic Fixed Phone Statistics	233
5.16 Cost of Local Monthly Telephone Service for the Average Family	234
5.17 Profits of Telecommunications Enterprises, 1987*2000	235
5.18 Concessions in Operation	239
5.19 Valparaíso: Time Spent Loading and Unloading and Transfer Speed	246
5A.1 Changes in Profitability of Privatized Firms	249
5A.2 Changes in Operating Efficiency of Privatized Firms	252
5A.3 Changes in Investment and Assets in Privatized Firms	255
5A.4 Changes in Profitability of Privatized Firms, Adjusted	258
5A.5 Changes in Operating Efficiency of Privatized Firms, Adjusted	261
5A.6 Changes in Investment and Assets in Privatized Firms, Adjusted	263
5A.7 Employment in Privatized Firms	265
5A.8 Physical Productivity before and after Privatization	266
5A.9 Concession Projects under Construction	268
5A.10 Projects in Concession Process	269
6.1 Privatization Program in the Real Sector in Colombia, 1986*98	279
6.2 IFI Privatization Program, 1986*97	281
6.3 ECOPETROL Privatization Program, 1993*99	285
6.4 Privatization in the Power Sector, 1995*98	289
6.5 Average Changes in Manufacturing Basic Variables after Privatization for IFI Sample and Total Manufacturing	292
6.6 Changes in Performance for the Sample of Privatized IFI Firms	294
6.7 Industry*Adjusted Changes in Performance for the	296

Sample of Privatized IFI Firms	
6.8 IFI Firms: Role of Transfers from Workers	305
6.9 Changes in Performance in the Sample of Privatized Power Utilities and Public Enterprises of Medellín	307
6.10 Industry*Adjusted Changes in the Performance of Privatized Power Utilities	309
6.11 Annual Averages for Wholesale Electricity Market Efficiency Variables, 1996*2000	314
6.12 Markup Determinants for IFI Firms	317
6.13 Total Factor Productivity Determinants for IFI Firms	321
6.14 Determinants of Thermal Plants' Efficiency Scores	325
6A.1 Infrastructure Concession Projects with Ongoing Private Investment by 1998	329
6B.1 List of IFI Enterprises in the Sample	330
6C.1 The Indicators for IFI Firms in the Sample	330
6D.1 Colombia: Power Sector Statistics and Description of the Data Sets	337
6D.2 Thermal Plants: Input and Output Variables	339
6E.1 DEA Efficiency Scores in Thermal Generation before and after the Regulatory Reform	340
7.1 State*Owned Enterprises in Mexico, 1917*2003	351
7.2 State*Owned Enterprises, 1982*2003	353
7.3 The Privatization Program in Perspective	354
7.4 Changes in Performance for the Sample of Privatized Firms	356
7.5 Industry*Adjusted Changes in Performance for the Sample of Privatized Firms	360
7.6 Median Performance Changes in Privatized Firms in Competitive versus Noncompetitive Industries	361
7.7 The Role of Transfers from Workers	365
7.8 Other Benefits of Privatization Programs	366
7.9 The Fiscal Impact of Privatization: 1983*2003	368
7.10 Foreign Direct Investment in Privatization	370
7.11 Restructuring Actions before Privatization	373
7.12 Prior Restructuring: Dos and Don'ts	375
7A.1 Definition of Variables	394
8.1 Privatization Revenues and Investment, 1991*2001	412
8.2 Firm Performance Measures 419 8.3 Non financial Companies Included in the Study	425
8.4 Non financial Companies Not Included in the Study	427
8.5 Privatized Banks Included in the Study	430
8.6 Changes in Performance for the Privatized Firms	433
8.7 Performance Indicators of Privatized Utilities, Difference in Difference	435
8.8 Changes in Performance in the Financial Sector after	439

Privatization	
8.9 Performance Indicators of Privatized Banks, Difference in Difference	442
8.10 Changes in Employment after Privatization	444
8.11 Impact of Layoffs on Performance Indicators for Major Privatized Firms	446
8B.I Description of Variables	451
8C.I Evolution of Privatization in the Electricity Sector	458
8C.2 Evolution of Privatization in the Financial Sector	460
8D.I Basic Statistics of Privatized Firms	463
8E.1 Changes in Performance after Privatization for Telefónica del Perú	468
8E.2 Changes in Performance after Privatization for Electrolima	470
8E.3 Changes in Performance after Privatization for Electroperú	472