

Data Appendix for
“Why Haven’t Reforms in Mexico Generated Growth?”
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Original Data for Mexico: Description

- O.1 GDP per capita, PPP (constant 2005 international \$)
- O.2 Merchandise exports: F.O.B. (millions US Dollars)
- O.3 Merchandise imports: F.O.B. (millions US Dollars)
- O.4 Service exports (millions US Dollars)
- O.5 Services imports (millions US Dollars)
- O.6 Exports of goods and services (millions US Dollars)
- O.7 Imports of goods and services (millions national currency)
- O.8 Exchange rate, period average (national currency per US Dollar)
- O.9 FDI receipts (millions US Dollars)
- O.10 Employment
- O.11 Real GDP (constant national currency)
- O.12 Exports of goods and services (national currency)
- O.13 Imports of goods and services (national currency)
- O.14 Imports of goods and services (constant national currency)
- O.15 Household final consumption (constant national currency)
- O.16 General government final consumption (constant national currency)
- O.17 Gross fixed capital formation (constant national currency)
- O.18 Changes in inventories (constant national currency)
- O.19 Gross fixed capital formation (national currency)
- O.20 Changes in inventories (national currency)
- O.21 GDP (national currency)
- O.22 GDP deflator (2005=100)
- O.23 Real GDP (millions 1970 pesos)
- O.24 Population ages 15-64
- O.25 Total population
- O.26 Total population
- O.27 Population ages 15-64 (% of total)
- O.28 Total population
- O.29 Imports by Harmonized System code, by country and year
- O.30 Elasticity of substitution, 3 digit Harmonized System
- O.31 Imports, balance of payments basis
- O.32 GDP at current prices
- O.33 Peso-US dollar exchange rate

Original Data for Mexico: Source

- O.1 World Development Indicators

O.2-O.8	IMF IFS
O.9	UNCTAD World Investment Report 2009
O.10	Conference Board Total Economy Database
O.11-O.18	World Development Indicators
O.19-O.22	IMF IFS
O.23-O.25	Instituto Nacional de Estadísticas y Geografía (INEGI), Estadísticas históricas de México 2009
O.26	Angus Maddison, Historical Statistics, <i>World Population, GDP and Per Capita GDP, 1-2001 AD</i>
O.27-O.28	World Development Indicators
O.29	United Nations COMTRADE database
O.30	Broda, Greenfield, and Weinstein (2009), BWHSMEX.XLS
O.31-O.33	IMF IFS

Constructed Series for Mexico: Description

C.1	FDI inflow (% GDP). $O.9 / (O.21 / O.8)$
C.2	Total trade (% GDP). $(O.6 + O.7) / O.21$
C.3	Real GDP (national currency). $O.21 / (O.22 / 100)$
C.4	Real GDP per WAP (national currency). $O.21 / (O.22 / 100) / (O.28 * O.27 / 100)$
C.5	Real GDP per WAP (national currency). This is an index of C.2, where 1985=100
C.6	Real GDP per WAP, PPP (constant 2005 international \$). $O.1 * O.28 * O.27 / 100$
C.7	Command GDP (US Dollars). $O.15 + O.16 + O.17 + O.18 + (O.12 - O.13) / (O.13 / O.14)$
C.8	Terms of trade premium. $(C.7 / O.11 - 1) * 100$
C.9	Y/N. $C.17 * (O.28 * O.27 / 100)$
C.10	$A^{1/(1-\alpha)}$. $C.9 / (C.11 * C.12)$
C.11	$(K/Y)^{\alpha/(1-\alpha)}$. $(C.18 / C.17)^{\alpha/(1-\alpha)}$ where alpha ($\alpha=0.3$) is the capital share
C.12	L/N. $(O.28 * O.27 / 100) / O.10$
C.13	Y/N index. This is an index of C.9 where 1985=100
C.14	$A^{1/(1-\alpha)}$ index. This is an index of C.10 where 1985=100
C.15	$(K/Y)^{\alpha/(1-\alpha)}$ index. This is an index of C.11 where 1985=100
C.16	L/N index. This is an index of C.12 where 1985=100
C.17	Real GDP (2005 national currency). $O.21 / (O.24 / 100)$
C.18	Capital stock (2005 national currency). To construct the capital stock, we assumed that the new capital stock equals the old capital stock after depreciation (we used depreciation of 5%) plus real investment (C.20). In addition, we picked the initial capital stock such that the K/Y ratio in the initial period of 1970 was equal to the average K/Y over 1971-1980.
C.19	Capital output ratio. $C.18 / C.17$
C.20	Real investment. $(O.19 + O.20) / (O.22 / 100)$
C.21	Population ages 15-64 (% Total). In order to find working age population between 1900-1960, we used O.24 and O.25, which only contains information for 1895, 1910, 1921, 1931, 1940, 1950, and 1961. First, we found the percentage of the population that was

working age at those points and linearly interpolated the years in between. Lastly, we used HP filter (with a parameter of 100) to smooth the series.

- C.22 GDP per WAP Index. This is an index of GDP per WAP growth between 1900-2008 based on information contained in O.23, O.26,O.27, C.17, and C.21.
- C.23 $(-1)*O.31/O.32 * O.33 / 1000$

Original Data for China: Description

- O.1 Total population
- O.2 Population ages 15-64 (% of total)
- O.3 GDP per capita, PPP (constant 2005 international \$)
- O.4 Merchandise exports: F.O.B. (millions US Dollars)
- O.5 Merchandise imports: F.O.B. (millions US Dollars)
- O.6 Service exports (millions US Dollars)
- O.7 Services imports (millions US Dollars)
- O.8 Exchange rate, period average (national currency per US Dollar)
- O.9 FDI receipts (millions US Dollars)
- O.10 Employment
- O.11 Real GDP (constant national currency)
- O.12 Exports of goods and services (national currency)
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- O.18 Changes in inventories (constant national currency)
- O.19 Gross fixed capital formation (national currency)
- O.20 Changes in inventories (national currency)
- O.21 GDP (national currency)
- O.22 GDP Deflator (2005=100)

- O.23 Imports by Harmonized System code, by country and year
- O.24 Elasticity of substitution, 3 digit Harmonized System
- O.25 Imports, balance of payments basis

Original Data for China: Source

- O.1-O.3 World Development Indicators
- O.4-O.8 IMF IFS
- O.9 UNCTAD World Investment Report 2009
- O.10 Conference Board Total Economy Database
- O.11-O.18 World Development Indicators
- O.19-O.22 IMF IFS
- O.23 United Nations COMTRADE database
- O.24 Broda, Greenfield, and Weinstein (2009) located in file BWHSCHN.XLS

Constructed Series for China: Description

- C.1 FDI inflow (% GDP). $O.9/(O.21/O.8)$
- C.2 Total trade (% GDP). $(O.4+O.5+O.6+O.7)/(O.21/O.8)$
- C.3 Real GDP (national currency). $O.21/(O.22/100)$
- C.4 Real GDP per WAP (national currency). $O.21/(O.22/100)/(O.1*O.2/100)$
- C.5 Real GDP per WAP (index 1985=100). This is an index of C.4.
- C.6 Real GDP per WAP, PPP (constant 2005 international \$). $O.3*O.1/(O.1*O.2)$
- C.7 Command GDP. $O.15+O.16+O.17+O.18+(O.12-O.13)/(O.13/O.14)$
- C.8 Change terms of trade premium. $(C.7/O.11-1)*100$
- C.9 Y/N. $C.17*(O.1*O.2/100)$
- C.10 $A^{1/(1-\alpha)}$. $C.9/(C.11*C.12)$
- C.11 $(K/Y)^{\alpha/(1-\alpha)}$. $(C.18/C.17)^{\alpha/(1-\alpha)}$ where alpha (alpha=0.3) is the capital share
- C.12 L/N. $O.1*O.2/100/O.10$
- C.13 Y/N index. This is an index of C.9 where 1985=100
- C.14 $A^{1/(1-\alpha)}$ index. This is an index of C.10 where 1985=100
- C.15 $(K/Y)^{\alpha/(1-\alpha)}$ index. This is an index of C.11 where 1985=100
- C.16 L/N index. This is an index of C.12 where 1985=100
- C.17 Real GDP (2005 national currency). $O.21/(O.22/100)$
- C.18 Capital stock (2005 national currency). To construct the capital stock, we assumed that the new capital stock equals the old capital stock after depreciation (we used depreciation of 5%) plus real investment (C.20). In addition, we picked the initial capital stock such that the K/Y ratio in the initial period of 1978 was equal to the average K/Y over 1979-1988.
- C.19 K/Y. $C.18/C.19$
- C.20 Real investment (2005 national currency). $(O.19+O.20)/(O.22/100)$
- C.21 $(-1)*O.25/O.21*O.8/1000$

Original Data for US: Description

- O.1 Real GDP (GDP in chained 2005 US Dollars)
- O.2 Real GDP (1990 constant international GK \$)
- O.3 Population ages 15-64 (thousands)

Original Data for US: Source

- O.1 Bureau of Economic Analysis
- O.2 Angus Maddison, Historical Statistics, World Population, *GDP and Per Capita GDP, 1-2001 AD*
- O.3 Statistical Abstract of the United States 2003 and 2010– US Census Bureau

Constructed Series for US: Description

C.1 Index of GDP per working age person (1900=100) using series O.1-O.3.

Figures

- Figure 1** Mexico C.2 and China C.2
Figure 2 Mexico C.1 and China C.1
Figure 3 Mexico C.5 and China C.5
Figure 4 Mexico C.8 minus the value of C.8 in year 1990 (or -0.536)
China C.8 minus the value of C.8 in year 1998 (or 2.175)
Figure 5 China C.13-16
Figure 6 Mexico C.13-16
Figure 7 US C.1
Figure 8 Mexico C.22
Figure 9 Mexico C.6, O.1 and China C.6, O.3

Tables

Table 1 Median and mean elasticities for China and Mexico are computed from O.20 and O.30, respectively.

Lambda ratios are computed from O.19 and O.29 according to equation (5) in the text.

Import price biases are computed using O.19 and O.20 for China and using O.29 and O.30 for Mexico according to equation (4) in the text. The bias is the second term on the right hand side of (4).

The import log change weights are computed using C.23 and C.21.

The equivalent variation is computed as $(\text{bias} \wedge (-\text{import log change weight}) - 1) * 100$.

Table 2

Growth in real GDP per capita is the growth rate of O.11/O.28 for Mexico and O.11/O.1 for China.

Growth rate of the terms of trade premium is the growth rate of C.8 for Mexico and C.8 for China.

Growth rate of the gain from variety is the equivalent variation from table 2.

Growth rate of real income per capita is the sum of the previous 3 growth rates.