Data Appendix

“What Can We Learn from the Current Crisis in Argentina?”
Timothy J. Kehoe

Original Data: Description

O.1 GDP, United States (millions of 1990 Geary-Khamis Dollars)
O.2 GDP Volume Index, United States (2000 = 100)
O.3 GDP, Argentina (millions of 1990 Geary-Khamis Dollars)
O.4 GDP, Argentina (1986 pesos)
O.5 GDP Volume Index, Argentina (2000 = 100)
O.6 Population, United States (thousands)
O.7 Population Ages 15-64, United States
O.8 Population, Argentina (thousands)
O.9 Population Ages 15-64, Argentina
O.10 Investment, Argentina (1986 pesos)
O.11 GDP, Argentina (millions of pesos)
O.12 Gross Fixed Capital Formation, Argentina (millions of pesos)
O.13 Changes in Inventories, Argentina (millions of pesos)
O.14 GDP Deflator, Argentina (2000 = 100)
O.15 CPI, Argentina (2000 = 100)
O.16 Inward FDI, Argentina (millions of dollars)
O.17 Inward FDI, Chile (millions of dollars)
O.18 PPI, Argentina (1995 = 100)
O.19 Exchange Rate, Argentina-U.S., period average (pesos per dollar)
O.20 Exchange Rate, Chile-U.S., period average (pesos per dollar)
O.21 GDP, Chile (billions of pesos)
O.22 Exports, Argentina (millions of dollars)
O.23 Imports, Argentina (millions of dollars)
O.24 CPI, United States (2000 = 100)
O.25 PPI, United States (2000 = 100)
O.26 Overall Government Balance, Including Off-Budget Items, Argentina (percent of GDP)
O.27 Population, Argentina
O.28 Hours Worked, Argentina (1970 = 100)
O.29 External Debt, Argentina (dollars)
O.30 External Debt\(^1\), Argentina (millions of dollars)
O.31 PPI, Argentina (2000 = 100)
O.32 Money Market Interest Rate on Peso Deposits, Argentina (percent per year)
O.33 Money Market Interest Rate on Foreign Currency Deposits, Argentina (percent per year)
O.34 Federal Government Revenue, Argentina (millions of pesos)
O.35 Federal Government Expenditure, Argentina (millions of pesos)
O.36 GDP, Argentina (millions of pesos)

\(^1\) Sum of bank loans, debt securities issued abroad, Brady bonds, non-bank trade credits, multilateral claims, and official bilateral loans (DAC creditors).
O.37 Economically Active Population (percent of total population)
O.38 Full-Time Employed Population (percent of total population)
O.39 Part-Time Employed Population (percent of economically active population)

Original Data: Source

O.1 Maddison, Levels of GDP
O.2 IFS, 11199BVRZF...
O.3 Maddison, Levels of GDP
O.5 IFS, 21399BVPZF...
O.6 Maddison, Population
O.7 WDI, SP.POP.1564.TO
O.8 Maddison, Population
O.9 WDI, SP.POP.1564.TO
O.11 IFS, 21399B..ZF...
O.12 IFS, 21393E..ZF...
O.13 IFS, 21393I..ZF...
O.14 IFS, 21399BIPZF...
O.15 IFS, 21364..ZF...
O.16 IFS, 21378BEDZF...
O.17 IFS, 22878BEDZF...
O.18 IFS (June 2002), 21363...ZF...
O.19 IFS, 213..RF.ZF...
O.20 IFS, 228..RF.ZF...
O.21 IFS, 22899B..ZF...
O.22 DOTS, 21370..DZD001
O.23 DOTS, 21371..DZD001
O.24 IFS, 11164...ZF...
O.25 IFS, 11163...ZF...
O.27 WDI, SP.POP.TOTL
O.28 Kydland and Zarazaga (2002)
O.29 WDI, DT.DOD.DECT.CD
O.31 IFS, 21360B..ZF...
O.32 IFS, 21363...ZF...
O.33 IFS, 21360B.FZF...
O.34 Secretaria de Hacienda, Argentina
O.35 Secretaria de Hacienda, Argentina
O.36 IFS, 21399B..ZF...

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2 Economically active is defined as employed or actively seeking employment.
3 Full-time is defined as 35 or more hours per week.
O.37 Instituto Nacional de Estadística y Censos, Encuesta Permanente de Hogares
O.38 Instituto Nacional de Estadística y Censos, Encuesta Permanente de Hogares
O.39 Instituto Nacional de Estadística y Censos, Encuesta Permanente de Hogares

Notes:
WDI denotes the World Bank’s World Development Indicators CD-ROM, 2002.
IFS denotes the International Monetary Fund’s International Financial Statistics CD-ROM, June 2004 (unless otherwise noted).
DOTS denotes the International Monetary Fund’s Direction of Trade Statistics CD-ROM, May 2004.
Instituto Nacional de Estadística y Censos is at http://www.indec.mecon.ar.

Constructed Series: Description

C.1 Real GDP Index, United States (2000 = 100)
C.2 Real GDP Index, Argentina (2000 = 100)
C.3 Population Ages 15-64, United States
C.4 Population Ages 15-64, Argentina
C.5 Investment, Argentina (millions of 2000 pesos)
C.6 Capital Stock, Argentina (millions of 2000 pesos)
C.7 GDP, Argentina (millions of 2000 pesos)
C.8 Hours Worked per Week, Argentina
C.9 External Debt, Argentina (dollars)
C.10 Population, Argentina
C.11 PPI, Argentina (2000 = 100)

Construction of Series

C.1 O.2 spliced with O.1
C.2 O.5 spliced with O.4 and O.3
C.3 O.7 for 1960-2000 and an adjustment of O.6 for 1900-1959, where O.6 was multiplied by the fraction of working-age people in the total population in 1960; values for 2001-2002 were extrapolated
C.4 O.9 for 1960-2000 and an adjustment of O.8 for 1900-1959, where O.8 was multiplied by the fraction of working-age people in the total population in 1960; values for 2001-2002 were extrapolated
C.5 Sum of O.12 and O.13, deflated by O.14, then spliced with O.10
C.6 Computed by cumulating C.5 as described below
C.7 O.11 deflated by O.14
C.8 For 1974-2002, series O.37, O.38, and O.39 were used to determine hours worked, as described below, with population given by C.10; values for 1970-1973 were spliced in from O.28.

C.9 O.29 spliced with O.30.

C.10 O.27 for 1970-2000; values for 2001-2002 were extrapolated.

C.11 O.31 spliced with O.18.

**Splicing:** If a series \{x_t\} is spliced with a series \{y_t\} at date \(T\), then \{y_t\} is adjusted as follows:

\[
(x_T / y_T) y_t.
\]

**Extrapolation:** The values of population series C.3, C.4, and C.10 for 2001-2002 were extrapolated using the growth rate of the series from 1999-2000.

**Deflating:** Nominal GDP and investment were both deflated using the GDP deflator; that is, the series were divided by O.14 and multiplied by 100.

**Capital Stock:** The capital stock was generated using a perpetual inventory method. Given an initial capital stock, investment 1918-2002 was cumulated using the law of motion of capital with a depreciation rate of 0.05:

\[
K_{t+1} = (1 - \delta)K_t + I_t.
\]

The initial capital stock was chosen so that the growth rate of the capital stock from 1918-1919 matched the average annual growth rate of the capital stock from 1918-1928.

**Hours Worked:** The data on hours worked 1974-2002 are estimated from the data reported by the Instituto Nacional de Estadística y Censos in its *Encuesta Permanente de Hogares* (http://www.indec.mecon.ar). These data, based on surveys of urban areas that contain about 65 percent of the population, report on the percentage of population that is working either part time or full time. Full-time work is assumed to be 40 hours per week, and part-time is assumed to be 20 hours. Data are averaged over the two surveys per year. (The data from the August surveys are ignored for 1998 and 1999, when there were three surveys.) These percentages are then applied to the data for total population to obtain a series for hours worked. This series is spliced with data from Kydland and Zarezaga (2002) for 1950-1973, which were constructed using data from Elías (1992) and from the *Encuesta Permanente de Hogares*.

**Figures**

**Figure 1:** The solid line is C.1 divided by C.3. The dashed line is the 2 percent annual trend.

**Figure 2:** The solid line is C.2 divided by C.4. The dashed line is the 2 percent annual trend.

**Figure 3:** The solid line is C.2 divided by C.4. The dashed line, TFP, is calculated as

\[
A_t = Y_t / K_t^a L_t^{1-a},
\]

using C.6 as capital, C.8 as total hours worked per week, and C.7 as output.
**Figure 4:** The solid lines are C.2 divided by C.4. The dashed lines are the analogues in the models.

**Figure 5:** The solid lines are C.8 divided by C.4. The dashed lines are the analogues in the models.

**Figure 6:** The solid lines are C.6 divided by C.7. The dashed lines are the analogues in the models.

**Figure 7:** The solid lines are C.5 divided by C.7. The dashed lines are the analogues in the models.

**Figure 8:** The series is the percent growth per year of O.15.

**Figure 9:** The solid line is O.32. The dashed line is O.33.

**Figure 10:** The solid line is O.22 multiplied by O.19 and divided by O.11. The dashed line is O.23 multiplied by O.19 and divided by O.11.

**Figure 11:** The solid line is O.16 multiplied by O.19 and divided by O.11. The dashed line is O.17 multiplied by O.20 and divided by O.21.

**Figure 12:** The solid line is O.34 annualized and divided by O.36. The dashed line is O.35 annualized and divided by O.36.

**Figure 13:** The solid line is O.26. The 2002 estimate is calculated as the mean of the 2002 quarterly values for (O.34 − O.35)/O.36, plus off-budget items, which are assumed to be the same percentage of GDP as in 2001 and are calculated as the 2001 value of O.26 minus the mean of the 2001 quarterly values for (O.34 − O.35)/O.36.

**Figure 14:** The series is C.9 multiplied by O.19 and divided by O.11.

**Figure 16:** The real exchange rate and the relative price of nontraded goods are calculated in the usual way using O.19 as the nominal exchange rate, O.15 as the overall price level and C.11 as the traded goods price level for Argentina, and O.24 as the overall price level and O.25 as the traded goods price level for the United States.