

## Notes from “computer primer”

### Goals:

1. Access Penn-World Data base
  - Using web browser, visit <http://datacentre.chass.utoronto.ca/pwt/>
2. Download data, copy to spreadsheet
  - Choose “Retrieve Data” option at the PWT internet site
  - Choose the series you wish to download (first click on a country, then the series); start and end years (maximum range is 1960 – 2004); topics to be listed as columns; and the format you wish to download the data in (“MS Excel ready” for the purpose of loading into EXCEL); then press the Submit Query button.
  - Highlight the data you’ve retrieved by clicking and dragging your mouse over the entire data range, then copy what you’ve highlighted (rightclick your mouse and select copy from the menu).
  - Open EXCEL, place cursor in bin A1, and click paste. This will dump the data, IN TEXT FORM, into EXCEL.
  - Convert your text to data format by selecting DATA from the tool bar, and selecting the “Text to columns” option. Follow the default options offered by the conversion wizard.
3. Manipulating the data (e.g., calculating growth rates, taking logs, etc.)
  - To enter a formula into a cell, highlight the target cell, hit the = sign in the tool bar, and type in the desired formula (e.g., to calculate the growth rate of a variable contained, say, in column D, type  $100*(d4-d3)/d3$  ). To copy a formula from one cell to the next, highlight the source cell and hit COPY, then highlight the target cells (click and drag your mouse) and hit PASTE.
  - Many powerful formulas may be accessed by clicking the  $f_x$  symbol in the tool bar.
4. Producing graphs
  - Click the Chart Wizard icon in the tool bar (looks like a bar graph);
  - Select graph type, series to plot, etc. following the Wizard’s suggestions, noting that many default choices are not particularly attractive.
  - Once a graph is produced, it may be modified by pointing at the offending feature, rightclicking the mouse, and choosing from available menu options.
  - Once graphs are produced, they may be highlighted, copied and pasted into wordprocessors for printing purposes.
5. World Bank Studies, Data
  - The World Bank maintains a valuable trove of additional data sources, scholarly publications on growth and development, etc. Check out <http://www.worldbank.org/>

COL0	Year
COL1	Argentina / Population (thousands)
COL2	Argentina / Exchange Rate (US=1)
COL3	Argentina / Purchasing Power Parity over GDP (US=1)
COL4	Argentina / Real Gross Domestic Product per Capita (Current Prices) (I\$ in Current Prices)
COL5	Argentina / Consumption Share of CGDP (% in Current Prices)
COL6	Argentina / Government Share of CGDP (% in Current Prices)
COL7	Argentina / Investment Share of CGDP (% in Current Prices)
COL8	Argentina / Price Level of Gross Domestic Product (US=100 in Current Prices)
COL9	Argentina / Price Level of Consumption (PPP over consumption / XRAT in Current Prices)
COL10	Argentina / Price Level of Government (PPP over government consumption / XRAT in Current Prices)
COL11	Argentina / Price Level of Investment (PPP over investment / XRAT in Current Prices)
COL12	Argentina / Openness in Current Prices (% in Current Prices)
COL13	Argentina / Ratio of GNP to GDP (% in Current Prices)
COL14	Argentina / CGDP Relative to the United States (US=100 in Current Prices)
COL15	Argentina / Real GDP per capita (Constant Prices: Laspeyres) (I\$ in 2000 Constant Prices)
COL16	Argentina / Real GDP per capita (Constant Prices: Chain series) (I\$ in 2000 Constant Prices)
COL17	Argentina / Real GDP Chain per equivalent adult (I\$ per eq. adult in 2000 Constant Prices)
COL18	Argentina / Real GDP Chain per worker (I\$ per worker in 2000 Constant Prices)
COL19	Argentina / Real Gross Domestic Income (RGDPL adjusted for Terms of Trade changes) (I\$ terms of trade in 2000 Constant Prices)
COL20	Argentina / Openness in Constant Prices (% in 2000 Constant Prices)
COL21	Argentina / CONSUMPTION SHARE OF RGDPL (% in 2000 Constant Prices)
COL22	Argentina / Government Share of RGDPL (% in 2000 Constant Prices)
COL23	Argentina / Investment Share of RGDPL (% in 2000 Constant Prices)
COL24	Argentina / Growth rate of Real GDP per capita (Constant Prices: Chain series) (% in 2000 Constant Prices)