


Central Bank of Nigeria, Annual Report and Statement of Accounts. 31st December 2004

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Hilson, G. 2003. Socio-Economic Impacts of Artisan and Small – Scale Mining in Developing Countries. The Netherlands: Krips


Jenei, G. 1999. *Establishment of an Independent Neutral Civil Service For Former Socialist Countries of Central and East Europe: Russia; Department of Information Services.*


Rajan, R. 2004. Straight Assume Anarchy. Finance and Development. Published By The International Monetary Fund. 9(2)56-57


Thirlwall, A .P. 2003. Trade, the Balance of Payments and Exchange Rate Policy in Developing Countries. *London: Edward Elgar*


# APPENDIX 1. VARIABLES LIST

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<td>Public capital expenditure for the mining and quarrying sector</td>
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APPENDIX 2. STOCHASTIC FUNCTIONS

Agricultural function is derived from the real GDP at 1984 constant factor cost, while manufacturing and mining and quarrying functions derived from value added constant factor costs.

Potential agricultural output (1) (with public capital expenditure for agriculture, estimated labour force in agriculture, fertiliser, interest rates, agricultural credit guarantee scheme and dum86sap as the main factor inputs)

\[
\text{residual} = \text{lnragr}(-1) - (0.144090687 \times \text{LNRAGCAP}(-1) + 0.279778285 \times \text{LNRFERT}(-1) - 0.001384701248 \times \text{RI}(-1) + 0.5114588809 \times \text{LNRAGLABOR}(-1) + 0.5114588809 \times \text{DUM86SAP}(-1) + 0.03982486965 \times \text{LNRACGS}(-1))
\]

\[
\text{LNRAGR} = -0.2155072748 \times \text{residual} + 0.07014675586 \times \text{D(LNRAGCAP)} + 0.07343944949 \times \text{D(LNRAGCAP)} - 2\)
\]

\[
\text{agr} = \exp(\text{lnragr})
\]

Manufacturing potential output (2) (with estimated labour force in industry/manufacturing, foreign direct investment, Naira/US dollar exchange rate and dum86sap as the main factor inputs).

\[
\text{Resman} = \text{lnrmanuf}(-1) - (0.38782 \times \text{LNRMANLABOR}(-1) + 0.119922 \times \text{LNRFDIM}(-1) - 0.039689 \times \text{LNREXCH}(-1) + 0.123274 \times \text{DUM86SAP}(-1) + 16.26863)
\]

\[
\text{LNRMANUF} = -0.7861858287 \times \text{Resman} + 0.2960676955 \times \text{D(LNRFDIM)} - 0.03580527574 \times \text{D(LNRMANCAP)} + 0.2927747087 \times \text{D(LNRMANLABOR)} + 0.05960053829 \times \text{D(LNRINFRAST)} - 0.2371806427 \times \text{D(LNREXPORT)} - 0.3849876623 \times \text{D(LNREXPORT)} + \text{lnrmanuf}(-1)
\]

\[
\text{manuf} = \exp(\text{lnrmanuf})
\]

Mining and quarrying potential output (3) (with public capital expenditure for mining and quarrying, labour force in mining, dum86sap, and dum80s as the main factor inputs).

\[
\text{Residualmin} = \text{lnrminqua}(-1) - (0.033003 \times \text{lnrmincap}(-1) + 0.354285 \times \text{LNRLABORMINE}(-1) - 0.321980 \times \text{DUM86SAP}(-1) - 0.242170 \times \text{DUM80S} + 19.27908)
\]

\[
\text{LNRMINGQUA} = -0.3174208133 \times \text{Residualmin} + 0.03981870782 \times \text{D(LNRSOCOMS)} + 0.5721387958 \times \text{D(LNREXPORT)} + \text{lnrminqua}(-1)
\]

\[
\text{minqua} = \exp(\text{lnrminqua})
\]
APPENDIX 3. GRAPHICAL REPRESENTATION OF THE DATA

Non-stationary agricultural data series 1970-2005

- Agricultural GDP at 1984 constant factor cost
- Public capital expenditure for agriculture
- Estimated labour force in agriculture
- Agricultural credit guarantee scheme
- Real interest rates
- Real fertiliser
Non stationary manufacturing data series 1970-2005

Manufacturing value-added GDP at constant factor cost

FDI into manufacturing

Estimated labour force in manufacturing

real Naira/US dollar exchange rate
First difference manufacturing data series  1970-2005
Non-stationary mining and quarrying data series 1970-2005

Mining and quarrying value-added GDP

public capital expenditure for mining and quarrying

Estimated labour force in mining and quarrying
First difference mining and quarrying data series 1970-2005
APPENDIX 4 Table for Augmented Dickey-Fuller test for non-stationarity levels, 1970-2005

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*/**/*** Significant at a 10 per cent/ 5 per cent/ 1 per cent level
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