

A COMPARISON OF GHANAIAN AND UGANDAN ECONOMIC PERFORMANCE  
AFTER STRUCTURAL ADJUSTMENT

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1 - Introduction

This paper arises from a professional and personal interest in the recovery of two African economies which experienced significant economic decline over a period of about 15 years from the middle to late 1960s. Their declines were for diametrically opposed reasons - Ghana's being attributed largely to a protracted period of economic mismanagement and political turmoil, and Uganda's being attributed largely to a protracted period of civil disturbance, terror and internal chaos. Both Ghana and Uganda have been the subject of International Monetary Fund / World Bank sponsored Economic Recovery Programmes/ Structural Adjustment Programmes during which the international aid community has joined together to support a collaborative effort to restore, and progress beyond, the previous levels of economic welfare.

Much has been written about Structural Adjustment Programmes (SAPs) in recent years. Since the number of such programmes which have been implemented globally approaches one hundred there is plenty of scope for professional speculation on the extent to which they have been successful. The bibliography at the end of this paper lists those publications to which some reference has been made in its preparation - but inevitably many will have been missed. Particularly missing are official papers prepared by or for the World Bank or the respective governments of the two countries on which attention is focused, many of which are internal papers for limited or confidential distribution.

In asking the question whether the Ghanaian and Ugandan SAPs have achieved their broad objectives, and whether any of the economic problems which remain appear to require further - and possibly more radical - economic measures it has been possible to use an approach somewhat different to those which have been adopted by other commentators (see for example Ajayi, 1994; Mosley, 1994). Using officially published statistical sources in their original form (i.e. without any effort by an international agency to standardise the statistical concepts and methods) a range of tables have been prepared which set out a variety of aspects of recent economic experience in Ghana and Uganda. This evidence can be used to go some way towards establishing the extent to which some kind of recovery has been achieved, the nature of the recovery, and the character of the problems which still remain.

Conventional approaches to the analysis of the effects / success of SAPs tend to fall into the following categories:

- i) Time-series -
  - a) Assessment of the impact of individual SAP measures on a country by country basis over time - e.g. devaluation, removal of price controls, resource switching etc.;
  - b) Assessment of economic performance "before and after" the SAP on a country by country basis;
  - c) Assessment of economic performance "with and without" the SAP on a country by country basis. (Note that this is not the same as "before and after" - see Yaffey and Tribe, 1992, in relation to project rehabilitation - for example pages 56-57, 102-106).

**TABLE 1**  
**GHANA AND UGANDA - NATIONAL INCOME AND PER CAPITA INCOME**

YEAR	GHANA				UGANDA					
	TOTAL GNP (million 1975 Cedis)	% change year on year	INDEX OF TOTAL GNP (1974=100)	INDEX OF PER CAPITA INCOME (1974=100)	TOTAL GDP (million 1991 Shs)	% change year on year	INDEX OF TOTAL GNP (1974=100)	INDEX OF PER CAPITA INCOME (1974=100)	MONETARY GDP (million 1991 Shs)	NON-MONE TARY GDP (million 1991 Shs)
1974	6,005		100.0		1,683,870		100.0	100.0	1,109,937	573,933
1975	5,241	- 12.7	87.3		1,650,314	- 2.0	98.0	95.5	1,061,834	588,480
1976	5,046	- 3.7	84.0		1,662,726	+ 0.8	98.7	93.8	1,055,153	607,573
1977	5,185	+ 2.8	86.3		1,689,005	+ 1.6	100.3	92.9	1,059,384	629,621
1978	5,633	+ 8.6	93.8		1,612,309	- 4.5	95.8	86.4	964,959	647,350
1979	5,489	- 2.6	91.4		1,420,975	- 11.9	84.4	74.3	863,408	557,567
1980	5,453	- 0.7	90.8		1,372,358	- 3.4	81.5	69.9	851,159	521,199
1981	5,302	- 2.8	88.3		1,426,001	+ 3.9	84.7	70.8	851,159	574,842
1982	4,935	- 7.0	82.2		1,521,052	+ 6.9	90.3	73.6	987,716	533,336
1983	4,717	- 4.4	78.6		1,597,388	+ 5.0	94.9	75.4	1,032,971	564,417
1984	5,103	+ 8.2	85.0		1,515,425	- 5.1	90.0	69.7	989,797	525,628
1985	5,345	+ 4.7	89.0		1,528,779	+ 0.9	90.8	68.5	983,778	545,001
1986	5,601	+ 4.8	93.3		1,546,493	+ 1.2	91.8	67.6	989,771	556,772
1987	5,866	+ 4.7	97.7		1,643,939	+ 6.3	97.6	70.0	1,062,454	581,485
1988	6,206	+ 5.8	103.4		1,772,362	+ 7.8	105.3	73.6	1,156,821	615,541
1989	6,545	+ 5.5	109.0		1,892,705	+ 6.8	112.4	76.6	1,240,291	652,414
1990	6,724	+ 2.7	112.0		1,976,551	+ 4.4	117.4	78.0	1,305,475	671,076
1991	7,079	+ 5.3	117.9		2,061,433	+ 4.3	122.4	79.3	1,374,266	687,167
1992	7,359	+ 4.0	122.6		2,132,437	+ 3.4	126.6	79.9	1,427,153	705,284
1993					2,304,527	+ 5.4	136.9	84.2		

1991 Population estimate GHANA - 14,850,000

UGANDA - 16,671,705

Sources for Table 1: see next text page

### Sources for Table 1:

**Ghana** - 1974-78 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. 1 No. 6, September 1982, Table 1 page 1.

- 1979 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. X No. 2, June 1992, Table 87 page 107.

- 1980-92 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. XI No.2, June 1993, Table 91 page 116.

**Uganda - Total GDP** - 1974-81 - Total of Monetary and Non-Monetary estimates. 1982-93 - Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, 1994; Table 1 page A4.

**Monetary GDP** - 1974-77 - Values at 1966 prices from *Background to the Budget 1982-83* Table 1.2 page 27 grossed to approximate 1991 prices (x 222.7) based on data from *Background to the Budget 1989-90* Table 1 page 132 for Monetary GDP 1983/86 at 1966 prices and *Background to the Budget 1993-94* Table 1 page 42 for 1991 prices. 1978-81 - Values at 1996 prices from *Background to the Budget 1986-87* grossed to 1991 prices as for 1974-77. 1982-92 - *GDP and Expenditure on GDP, Uganda*, Statistics Dept., Ministry of Finance and Economic Planning, Kampala, December 1993 Table 2 page 2.

**Non-Monetary GDP** - 1974-77 - Values at 1966 prices from *Background to the Budget 1982-83* Table 1.2 page 27 grossed to approximate 1991 prices (x 227.3) based on data from *Background to the Budget 1989-90* Table 1 page 132 for Monetary GDP 1983/86 at 1966 prices and *Background to the Budget 1993-94* Table 1 page 42 for 1991 prices. 1978-81 - Values at 1996 prices from *Background to the Budget 1986-87* grossed to 1991 prices as for 1974-77. 1982-92 - *GDP and Expenditure on GDP, Uganda*, Statistics Dept., Ministry of Finance and Economic Planning, Kampala, December 1993 Table 2 page 2.

**Per capita income** - World Bank, *World Development Report 1992*; Oxford University Press, New York, 1992; Table xx page xx.

**Population** - **Ghana** - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. X No.2, June 1992, Table 1 page 1.

**Uganda** - Republic of Uganda; *Background to the Budget 1993-94* ; Ministry of Finance and Economic Planning, Kampala, 1993; Table 63 page 90; annual figures based on inter-censal growth rate.

**TABLE 2**  
**GHANA AND UGANDA - BALANCE OF PAYMENTS ESTIMATES**

YEAR	GHANA			UGANDA		
	EXPORTS (fob US\$ million)	TRADE BALANCE (US\$ million)	CURRENT A/C Balance (US\$ million)	EXPORTS (fob US\$ million)	TRADE BALANCE (US\$ million)	CURRENT A/C Balance (US\$ million)
1975	431.6	+8.8	+3.4			
1976	442.3	-19.1	-32.7			
1977	542.3	-12.6	-100.7	547.8	+126.4	+63.4
1978	672.8	-43.0	-136.2	323.0	-29.1	-138.2
1979	1041.1	+164.4	-181.6	397.2	+75.1	-4.3
1980	1257.5	+200.7	-93.5	319.1	-184.6	-247.5
1981	1063.3	-42.5	-208.9	258.1	-83.0	-170.6
1982	804.3	-207.2	-74.4	371.7	+22.1	-69.9
1983	511.3	-39.8	-261.5	376.5	+26.7	-72.3
1984	538.9	-69.2	76.1	408.7	+78.2	+107.1
1985	610.4	-36.2	-156.5	404.6	+62.3	+77.0
1986	749.3	+14.2	-85.3	422.9	+43.1	+51.6
1987	826.6	-107.3	-98.0	333.0	-249.5	-112.2
1988	881.0	-112.8	-66.9	300.1	-231.7	-194.9
1989	807.9	-203.4	-89.7	298.1	-280.1	-259.5
1990	896.8	-308.2	-223.1	190.1	-361.0	-263.3
1991	997.7	-321.0	-251.6	196.0	-326.7	-173.7
1992	986.3	-470.2	-376.2	156.6	-367.9	-134.1

Sources:

**Ghana** - Exports - 1975-1981 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. 1 No.6, September 1982, Table 1 page 3 - converted at ₵2.15 1975-7, ₵2.35 1978, ₵2.75 1979-81 per US\$. 1986-1992 - I.S.S.E.R.; *The State of the Ghanaian Economy 1992* ; I.S.S.E.R., University of Ghana, Legon, 1993, Table 4.1 page 59.

Trade Balance and Current Account Balance - 1985-1992 - I.S.S.E.R.; *ibid.*; Table 4.13 page 73. 1975-1981 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. 1 No.6, September 1982, Table 1 page 3 - converted at ₵2.15 1975-7, ₵2.35 1978, ₵2.75 1979-81 per US\$.

**Uganda** - Exports and Trade Balance - 1977-80 B to B 1982-83, MPED, 1982, Table 1.9 page 35. 1981-92 - Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, 1993; Tables 29 & 31 pages A28 & A30.

Current A/c Balance - 1977-80 B to B 1982-83, MPED, 1982, Table 1.9 page 35. 1981-83 - B to B 1987-88, MPED, 1987, Table 2. 1984-92 - Republic of Uganda; *Background to the Budget 1993-94* ; Ministry of Finance and Economic Planning, Kampala, 1993; Table 9 page 50. (Note that the Balance of Payments statistics in the 1993 publication are presented in "Fiscal Years" rather than "Calendar Years").

Uganda - Total Exports fob - Millions of Uganda Shs	Trade Balance	Current Balance
1975	1758	-187
1976	2708	719

B to B 1980/91 Table 7 page 25

**TABLE 3**  
**GHANA AND UGANDA - EXCHANGE RATES**

YEAR	GHANA		UGANDA			
	OFFICIAL RATE Cedis/US\$ (average)	FOREX Exchange Rate Rate (Cedi/US\$)	OFFICIAL US\$S/US\$ (end year)	OFFICIAL AUCTION US\$S/US\$ (end year)	FOREX US\$S/US\$ (end year)	FOREX PREMIUM (%)
1975	2.15					
1976	2.15					
1977	2.15					
1978	2.35					
1979	2.75					
1980	2.75					
1981	2.75		0.856			
1982	2.75		1.048*	2.400#		
1983	23.66		2.338*	3.025#		
1984	36.00		5.52			
1985	54.37		12.75			
1986	89.21		14.00			
1987	162.37		60.00			
1988	202.34		165.00			
1989	270.00		370.00			
1990	326.33	351.52	540.00		768.54	42.3
1991	367.78	383.75	915.00	915.00	1,184.16	29.4
1992	437.09	459.21	1,213.93	1,037.00	1,246.50	7.7
1993	648.98	670.22	1,146.00	1,130.00	1,172.8	3.8
1994	956.71	1,065.39				
1995						

Sources:

**Ghana** - 1975-84 - xxxxxxxxxxxxxx

1984-85 - Republic of Ghana; *Quarterly Digest of Statistics* ; ???

1986-87 - I.S.S.E.R.; *The State of the Ghanaian Economy 1992* ; I.S.S.E.R., University of Ghana, Legon, 1993, Table 4.12 page 70.

Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, 1988-89 from Vol. X No.2, June 1992, Table 67 page 77 and 1990-94 from Vol. XIII No.2, June 1995, Table 36 page 47.

Forex Rates 1990-94 - ISSER, 1995 - Table 4.13 page 68.

**Uganda** - 1981-88 - Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989, Table 18 page 147 (\*=Window1; #=Window2). 1989-93 -Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, 1994; Tables 17 and 18 page A19.

**TABLE 4**  
**GHANA AND UGANDA - INTERNATIONAL INDEBTEDNESS**

YEAR	GHANA		UGANDA	
	TOTAL EXTERNAL PUBLIC DEBT (current US\$ million end year)	DEBT SERVICE RATIO (% of exports of goods & services - incl. IMF)	TOTAL EXTERNAL PUBLIC DEBT (current US\$ million mid-year)	DEBT SERVICE RATIO
1975	705.4			
1976	743.5			
1977	797.1			
1978	1,185.0			
1979	1,130.0			
1980	1,420.9			
1981	1,493.4			
1982	1,845.8			
1983	1,836.0			
1984	1,925.9			
1985	2,814.4			
1986	2,668.7	48.1		
1987	3,126.6	58.7		
1988	3,134.1	68.4	1,239.2	56.9
1989	3,223.6	55.1		
1990	3,511.3	38.5		
1991	3,818.6	29.6	2,591.6	"over 100%"
1992	4,107.4	25.7	2,647.5	"over 90%"
1993			2,637.2	
1994			2,615.5	

Sources:

**Ghana** - Bank of Ghana; *Annual Report*; various years. I.S.S.E.R.; *The State of the Ghanaian Economy 1992*; I.S.S.E.R., University of Ghana, Legon, 1993, Tables 4.14 and 4.15 pages 74 and 75.

**Uganda** - External Debt - 1988 - Republic of Uganda; *Background to the Budget 1988-89*; Ministry of Planning and Economic Development, Kampala, 1988, page 9. 1991-92 - Republic of Uganda; *Background to the Budget 1994-95*; Ministry of Finance and Economic Planning, Kampala, 1994; Table 7 page A10.

Debt Service Ratio - 1991 - Republic of Uganda; *Rehabilitation and Development Plan 1991-92 - 1994-95*; Ministry of Finance and Economic Planning, Kampala, 1992, Vol.1 Table 2.4 page 16 and page 82. 1992 - Republic of Uganda; *Rehabilitation and Development Plan 1993-94 - 1995-96*; Ministry of Finance and Economic Planning, Kampala, 1993, Vol.1 Table 2.4 page 8 and page 94.

Ugandan statistics for external debt service are being presented by "fiscal year" at the time of preparing this paper, and show signs of some improvement for a variety of reasons. First, the size of the debt service is falling in absolute terms (as a result of negotiated changes and "write-offs") - from US\$140.61 million in 1992/93 to US\$176.17 million (estimated) in 1993/94 and US\$111.65 million (projected) in 1994/95. The level of export income (fob) has more recently been showing signs of recovery, from US\$157.1 in 1992/93 to US\$244.2 million in 1993/94, with associated calculated debt service ratios of 89.5 and 72.1 per cent respectively. Given the lower projected debt service payments for 1994/95, and the substantial improvement in world coffee prices through 1994, this implies a substantial drop in the debt service ratio - which might, of course, only be temporary (Republic of Uganda; 1994a; Table 6 p7 and Table 7 p8).

**TABLE 5A**  
**GHANA - PRINCIPAL EXPORTS**

YEAR	COCOA BEANS EXPORTS				GOLD EXPORTS			
	QUANTITY (tonnes)	VALUE (US\$ 000)	REVENUE / TONNE (current US\$)	% OF TOTAL EXPORTS	QUANTITY (000 grams)	VALUE (US\$ 000)	REVENUE E / gram (current US\$)	% OF TOTAL EXPORTS
1975	322,223	256,478	796	59.4				
1976	327,643	239,769	732	54.2	16,416	32,991	2.09	7.5
1977	253,033	316,133	1,249	58.3	15,208	33,687	2.22	6.2
1978	213,441	420,444	1,970	58.7	9,747	38,727	3.97	5.8
1979	189,357	671,371	3,546	76.6	n.a.	75,787	n.a.	7.3
1980	210,797	706,246	3,350	56.2	10,820	190,132	17.57	15.1
1981	191,503	396,821	2,072	37.3	10,765	158,366	14.71	14.9
1982	239,931	383,008			9,386	116,300		
1983	153,997	199,458			8,621	105,625		
1984	148,873	344,298			8,880	100,855		
1985	171,797	366,086			8,966	92,160		
1986	195,224	469,800	2,406	67.2	8,359	106,400	12.73	14.2
1987	197,980	451,000	2,278	59.9	10,092	142,500	14.12	17.2
1988	200,904	422,300	2,102	52.4	10,981	168,500	15.34	19.1
1989	225,860	381,300	1,688	50.5	12,003	159,900	13.32	19.8
1990	247,380	323,800	1,309	40.2	15,054*	201,700	13.40	22.5
1991	243,040	315,600	1,299	34.7	23,618*	301,200	12.75	30.2
1992	223,774	276,810	1,237	30.7	28,468*	343,400	12.06	34.8

Sources:

**Cocoa** - 1975-81 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Ghana, Vol.1 No.6 September 1982 Table 59 page 66 - values and prices calculated using  $\text{¢}2.15$  1975-7,  $\text{¢}2.35$

1978,  $\text{¢}2.75$  1979-81 per US\$ - percentage of exports calculated from Table 59 page 66, Table 51 page 55 and Table 1 page 3.

1984-85 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Ghana, Vol.X No.2 Table 64 page 74.

1986-92 - I.S.S.E.R.; *The State of the Ghanaian Economy in 1992* ; ISSER, University of Ghana, Legon, 1993, Table 4.3 page 60, and Table 4.1 page 59.

**Gold** - 1975-81 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Ghana, Vol.1 No.6 September 1982 Table 60 page 67 - values and prices calculated using  $\text{¢}2.15$  1975-7,  $\text{¢}2.35$

1978,  $\text{¢}2.75$  1979-81 per US\$ - percentage of exports calculated from Table 60 page 67, Table 51 page 55 and Table 1 page 3. (n.a. = not available).

1984-89 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Ghana, Vol.XI, No.2, June 1993 Table 69 page 84.

1990-92 - ISSER; *The State of the Ghanaian Economy in 1992* ; ISSER, University of Ghana, Legon, 1993, Table 4.4 page 62, and Table 4.1 page 59 (note \* - calculated metric equivalent of Fine oz. volume).

**TABLE 5B**  
**UGANDA - PRINCIPAL EXPORTS**

YEAR	COFFEE EXPORTS				COTTON EXPORTS		TEA EXPORTS	
	QUANTITY (tonnes)	VALUE (US\$ 000)	REVENUE / TONNE (current US\$)	% OF TOTAL EXPORTS	QUANTITY (tonnes)	% OF TOTAL EXPORT VALUE	QUANTITY (tonnes)	% OF TOTAL EXPORT VALUE
1975	176,600				25,600		17,100	
1976	153,100				19,200		11,700	
1977	113,400				9,900		8,800	
1978	113,700	312,700	2,800	96.8	11,800	6.1	8,700	2.6
1979	143,100	425,900	3,000		3,800		1,400	
1980	110,100	341,300	3,100		2,300		500	
1981	128,300	243,800	1,900	99.3	1,200		500	
1982	174,700	349,400	2,000	94.0	1,800	0.9	2,580	0.2
1983	144,300	346,300	2,400	92.0	7,000	3.0	3,054	0.3
1984	133,200	359,600	2,700	88.0	6,700	3.0	5,214	0.8
1985	151,500	348,500	2,300	86.1	9,553	3.5	5,758	0.2
1986	140,800	394,200	2,800	93.2	4,875	1.2	3,335	0.7
1987	148,153	307,535	2,076	92.3	3,443	1.2	3,511	0.6
1988	144,254	265,279	1,839	88.4	2,088	1.0	3,512	1.0
1989	176,453	262,811	1,489	88.2	2,321	1.3	4,658	1.1
1990	141,489	140,384	992	73.8	3,808	3.0	6,704	1.9
1991	124,819	117,641	942	60.0	7,819	6.0	8,877	3.5
1992	119,006	95,372	801	55.7	7,536	4.8	9,504	4.5
1993	114,133	106,741	935	55.0	2,483	1.2	10,175	5.7

Sources:

1975-77 - Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982, Table 1.12 page 38.

1978-79 - Republic of Uganda; *Background to the Budget 1986-87*; Ministry of Planning and Economic Development, Kampala, 1986, Table 7 page 68.

Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989, Table 4 page 135.

Republic of Uganda; *Key Economic Indicators - 16th Issue January 1994*; Statistics Department, Ministry of Finance and Economic Planning, Entebbe, 1994 - Table 11 page 13.

Republic of Uganda; *Imports and Exports, Uganda 1991-1992*; Statistics Department, Ministry of Finance and Economic Planning, Entebbe, 1993, Table 1 page 1.

Republic of Uganda; *Background to the Budget 1994-95*; Ministry of Finance and Economic Planning, Kampala, 1994; Tables 33 & 34 pages A32 & A33.

Value of Coffee Exports - Shs million  
B to B 1982/83 Table 1.12 Page 38

1975	1,398.1
1976	2,487.0
1977	4,536.3
1978	2,419.4
1979	3,179.5
1980	2,523.9

Cotton exports

1975	213.2
1976	182.0
1977	126.4
1978	152.3
1979	56.2
1980	31.5

Tea exports

1975	120.8
1976	89.2
1977	103.0
1978	63.8
1979	10.6
1980	2.4

Value of Cotton and Tea Exports US\$m B to B 1987/88 Table 2

	Cotton
1979	6.4
1980	4.3
1981	2.2
1982	3.3
1983	11.6
1984	12.4
1985	15.4
1986	5.1

	Tea
1979	1.4
1980	0.3
1981	0.3
1982	0.8
1983	1.2
1984	3.2
1985	1.0
1986	3.2



**TABLE 6**  
**GHANA AND UGANDA - INFLATION AND PRICE LEVELS**

YEAR	GHANA		UGANDA	
	CONSUMER PRICE INDEX 1977=100	% change year on year	MONETARY GDP deflator 1991=100	% change year on year
1975	29.6	29.7	0.015	
1976	46.2	56.3	0.011	73.7
1977	100.0	116.3	0.029	270.6
1978	173.1	73.1	0.042	143.2
1979	267.3	54.4	0.067	159.5
1980	401.2	50.1	0.100	150.1
1981	868.6	116.5	0.202	202.5
1982	1,062.4	22.3	0.279	138.2
1983	2,367.4	122.8	0.380	136.2
1984	3,304.2	139.6	0.625	164.5
1985	3,347.2	10.4	1.655	164.8
1986	4,543.1	24.6	3.900	135.6
1987	6,352.0	39.8	12.981	232.8
1988	8,343.9	31.4	34.339	164.5
1989	10,449.3	25.2	59.920	74.5
1990	14,341.5	37.2	75.534	26.1
1991	16,927.4	18.0	100.000	32.4
1992	18,629.8	10.1	164.311	64.3
1993	23,279.7	25.0	179.350	9.2

Sources:

**Ghana** - 1975-81 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol.1 No.6 September 1982, Table 42 A and B page 46 (and derivation).

1983-92 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol.XI No.2 June 1993, Table 49 page 62.

**Uganda** - 1975-81 - Republic of Uganda; *Background to the Budget 1982-83 & 1987-88*; Republic of Uganda, Ministry of Planning and Economic Development, Kampala, 1982 & 1987, Tables 1.1 & 1.2 pages 26-27 and Tables 1.1 & 1.2 respectively - series in table is approximate estimation.

1981-82 - Republic of Uganda; *Background to the Budget 1990-91*; Republic of Uganda, Ministry of Planning and Economic Development, Kampala, 1990, Table 4 page 161 - and derived from later series.

1983-?? - Republic of Uganda; *Key Economic Indicators - 16th Issue January 1994* ; Statistics Department, Ministry of Finance and Economic Planning, Entebbe, Tables 1 and 3, pages 2 and 4, and derived calculations.

1993 - Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, 1994; Tables 2 & 3 pages A5 & A6 (Note that these figures refer to Fiscal Years 1993/94 on 1992/93).

**TABLE 7**  
**GHANA AND UGANDA - CAPITAL FORMATION**

YEAR	GHANA		UGANDA		
	GFCF as % of GNP	Consumption of Fixed Capital as % of GNP	Fixed Capital Formation (1991 Shs.million)	FCF as % of Expenditure on GDP	Gross National Savings as % of GDP
1975				7.6	5.1
1976	11.4	6.5		5.8	6.9
1977	17.5	6.5		5.5	6.9
1978	18.9	5.5		4.9	2.8
1979	16.0	5.6		2.6	2.6
1980	7.6	5.3		3.4	1.6
1981	6.2	5.0			
1982	7.1	6.6	224,758	14.0	
1983	7.3	7.0	208,624	12.3	
1984	16.9	5.1	180,965	11.1	
1985	14.9	5.3	186,445	11.5	
1986	8.1	5.3	216,987	13.2	
1987	9.6	6.0	340,688	19.4	
1988	9.7	5.8	332,828	17.6	
1989	12.5	5.5	346,464	17.0	
1990	12.9	5.9	350,359	16.6	
1991	14.1	5.9	353,103	16.1	
1992	14.7	6.1	330,868	14.6	

Source:

**Ghana** - GFCF and CFC - 1980-81 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra Vol. 11 No. 1 March 1984 Table 72 page 79. 1986 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. X No.2 June 1992 Table 94 page 113. 1987-92 - Vol. XI No. 2 June 1993 Table 98 page 122.

GNP - 1980-1992 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra Vol. XI No. 2 June 1993, Table 91 page 116.

**Uganda** - 1975-80 - Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982, Table 1.3 page 28.

1981- 92 - Republic of Uganda; *Gross Domestic Product and Expenditure on GDP, Uganda (1982-1992/93)* ; Statistics Dept., Ministry of Finance and Economic Planning, Kampala, 1993; Table 3b page 3.

Gross Fixed Investment - Shs million - current prices

1972	1,315	
1973	1,001	
1974	1,571	
1975	1,541	
1976	1,209	
1977	1,807	
1978	1,881	
1979	n.a	(1992 Gross Dom Inv)
1980	n.a	(3531 Gross Dom Inv)

B to B 1982/83 Table 1.3 page 28

**TABLE 8A**  
**GHANA - SOME PRODUCTION STATISTICS - INDUSTRIAL**

YEAR	M'facturing Capacity Utilisation (%)	Index of M'facturing Production 1977=100	Wood and Timber Products Exports (000 m <sup>3</sup> )	Gold Production (Kgs)	Bauxite Production (000 tonnes)	Manganese Ore Production (000 tonnes)	Electricity Generation (kWh 000s)	Water production by GWSC (billion gallons)
1975			623	16,295.1	325.2	415.3	3,996,488	
1976			565	16,494.2	271.6	316.9	4,225,946	
1977		100.0	586	14,957.2	279.2	292.4	4,446,859	
1978	40.4	81.0	591	12,504.7	327.9	316.7	3,770,622	
1979	33.1	67.8	285	11,093.8	235.3	253.8	4,683,070	
1980	25.5	69.0	185	10,981.0	225.1	249.9	5,309,306	
1981	24.9	63.3	204	10,595.9	181.3	223.1	5,382,257	
1982	21.0	50.4	110	10,280.3	63.5	159.9	4,972,878	
1983	30.0	35.3	96	8,601.1	70.5	173.7	2,569,133	
1984	18.0	39.3	324	8,923.2	48.5	286.7	1,814,857	
1985	25.0	49.3	530	9,311.2	169.5	315.6	2,986,191	
1986	25.0	54.2	470	8,950.0	204.0	259.3	4,435,026	
1987	35.0	56.8	515	10,228.0	196.0	253.6	4,676,301	
1988	40.0	62.1		11,630.9	287.3	230.9	4,807,849	
1989	40.6	63.0		13,265.2	347.1	334.2	5,230,508	
1990	39.8	63.5		16,562.5	382.1	364.0	5,801,338	38.1
1991	40.5	71.3		26,134.4	435.1	415.2	6,108,668	39.5
1992	44.5	76.9			498.1	448.4	6,602,366	40.9

Sources:

**Capacity Utilisation** - 1978-80 - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol.1 No.6, September 1982, Table 9 page 11.

1987-92 - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol.XI No.2, June 1993, Table 10 page 12

**Manufacturing Production** - 1986-92 - *ibid.* Table 11A page 13.

**Timber Products Exports** - 1975-79 - *QDS* September 1982 Table 61 page 68; 1984-87 - *QDS* June 1993 Table 70 page 85.

**Gold Production** - 1975-81 - *QDS* September 1982 Table 4 page 6; 1986-91 - *QDS* June 1993 *ibid.* Table 5 page 8.

**Bauxite and Manganese Production** - 1975-81 - *QDS* September 1982 Table 6 page 8; 1986-92 - *QDS* June 1993 Table 7 page 10.

**Electricity Generation** - 1975-81 - *QDS* September 1982 Table 11 page 13; 1986-92 - *QDS* June 1993 Table 13 page 16.

**Water Production by Ghana Water and Sewerage Corporation** - ISSER; *The State of the Ghanaian Economy in 1992* ; ISSER, University of Ghana, Legon, 1993, page 116.

TABLE 8B  
UGANDA - SOME PRODUCTION STATISTICS - INDUSTRIAL

YEAR	Index of Industrial Production 1987=100	Gold Production (Kgs)	Sugar Production (tonnes)	Textiles Production (000 m <sup>2</sup> )	Cement (tonnes)	Electricity Generation (000 Kwh)
1975			23,945	33,544	98,000	
1976			18,177	38,8358	88,000	
1977			12,464	36,568	73,000	
1978			8,000	28,443	44,000	630,200
1979			5,153	15,101	2,000	459,500
1980		0.28				634,200
1981		0.30				516,300
1982	97.3	0.22	3,289	18,557	18,471	559,800
1983	103.7	0.00	3,133	16,607	30,780	515,500
1984	101.0	1.32	2,943	11,475	24,921	614,400
1985	91.3	0.14	808	10,418	11,749	626,500
1986	86.1	0.15	0	9,733	16,376	637,200
1987	100.0	-	0	10,465	15,904	618,087
1988	123.7	0.02	7,534	11,067	14,960	565,900
1989	145.2	1.70	15,859	11,586	17,378	659,971
1990	155.5	75.23	28,915	8,172	26,920	736,500
1991	178.2	? 76.00 ?	42,456	8,901	27,138	782,518
1992	191.2	117.80	53,539	9,650	37,881	986,278
1993	214.6	103.35	49,264	7,481	51,985	974,677

Sources:

**Industrial Production** - Republic of Uganda; *Key Economic Indicators - 18th Issue July 1994* ; Statistics Department, Ministry of Finance and Economic Planning, Entebbe, 1994 - Table 11 page 12.

**Gold Production** - Republic of Uganda; *Background to the Budget 1993-94* ; Ministry of Finance and Economic Planning, Kampala, 1993 - Table 46 page 78 and Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, 1994; Table 43 page A40.

**Sugar Production; Textiles Production; Cement Production; and Electricity Generation** - Sugar and Cement 1975-79 - Republic of Uganda; *Background to the Budget 1981-82*; Ministry of Planning and Economic Development, Kampala, 1981, Table 5 page 20.

Textiles - 1975-79 - Republic of Uganda, *Background to the Budget 1980-81*; Ministry of Planning and Economic Development, Kampala, 1980, Table 5 page 20.

Electricity Generation 1978-79 - Republic of Uganda, *Background to the Budget 1986-87*; Ministry of Planning and Economic Development, Kampala, 1986, Table 37 page 104.

1980-93 - Republic of Uganda; *Key Economic Indicators - 18th Issue July 1994* ; Statistics Department, Ministry of Finance and Economic Planning, Entebbe, Table 12 page 14.

1980-81 data from Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989, Table 51 page 171 and Table 59 page 179.

**TABLE 9A**  
**GHANA - SOME PRODUCTION STATISTICS - AGRICULTURAL**

YEAR	Maize Production 000 tonnes	Rice Production 000 tonnes	Guinea Corn Production 000 tonnes	Cassava Production 000 tonnes	Yam Production 000 tonnes	Plantain Production 000 tonnes
1975	343	71	135	2,398	709	1,245
1976	286	70	189	1,819	575	1,256
1977	274	109	131	1,811	535	927
1978	218	108	121	1,895	544	940
1979	380	93	158	1,759	602	817
1980	382	78	132	2,322	650	734
1981	378	97	131	2,065	591	829
1982	346	36	86	2,470	388	745
1983	172	40	56	1,723	866	342
1984	574	64	176	4,083	425	760
1985	441	90	185	3,076	485.4	676
1986	559.1	69.6	128.1	2,876.2	1,048.1	1,087.5
1987	597.7	80.7	205.9	2,725.8	1,185.4	1,077.6
1988	751.0	95.0	161.0	3,300.0	1,200.0	1,200.0
1989	715.0	73.7	215.0	3,320.0	1,280.0	1,040.0
1990	553.0	81.0	136.0	2,717.0	877.0	799.0
1991	931.0	151.0	241.0	5,701.0	2,632.0	1,178.0
1992	730.6	131.5	258.8	5,662.0	2,331.4	1,082.0
1993	960.9	157.4	328.3	5,972.6	2,720.3	1,321.5

Sources:

**1975-1981** - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol.1 No.6 Table 3 page 5.

**1982-83** - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. 11 No.1 March 1984, Table 3 page 5.

**1986-92** - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol.XI No.2 June 1993, Table 3 page 5.

**TABLE 9B**  
**UGANDA - SOME PRODUCTION STATISTICS - AGRICULTURAL**

YEAR	Cotton Production (tonnes)	Tea Production (tonnes)	Tobacco Production (tonnes)	Plantain Production (000 tonnes)	Finger Millet Production (000 tonnes)	Maize Production (000 tonnes)	Sweet Potatoes Production (000 tonnes)	Cassava Production (000 tonnes)
1975	31,900	18,374	3,648	9,107	682	571	1,953	2,992
1976	24,700	15,387	3,074	8,138	567	674	2,002	2,038
1977	13,800	15,179	2,275	8,531	578	566	1,659	2,993
1978	20,200	10,910	1,350	8,855	561	594	1,689	2,928
1979	6,000	1,832	820	6,090	481	353	1,272	2,110
1980	4,000	1,500	400	5,699	459	286	1,200	2,072
1981	4,800	1,700	100	5,900	480	342	1,300	3,000
1982	5,100	2,580	647	6,596	401	393	1,487	3,127
1983	10,000	3,054	1,650	6,487	545	413	1,843	3,239
1984	12,200	5,214	1,969	6,250	332	338	1,630	2,969
1985	16,300	5,758	1,613	6,468	480	354	1,664	2,700
1986	4,500	3,335	949	6,565	427	322	1,865	2,900
1987	2,700	3,511	1,214	7,039	518	357	1,675	3,101
1988	1,800	3,512	2,639	7,293	578	440	1,716	3,271
1989		4,658	3,456	7,469	610	624	1,658	3,568
1990		6,704	3,322	7,842	560	602	1,693	3,420
1991		8,877	5,140	8,080	576	567	1,785	3,229
1992		9,504	6,686	7,806	634	657	1,905	2,892
1993		12,320	5,183	8,229	610	805	1,978	3,137

Sources:

**Cotton, Tea and Tobacco Production** - (cotton - some contradictions - check\*\*\*)

Cotton 1975-81 - Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982, Table 1.5 page 31. 1982 - *1983-84* - Table 22 page 53. 1983-85 - *1986-87* - Table 26 page 92; 1985-88 - *1988-89* - Table 45.

Tea and Tobacco 1975-79 - Republic of Uganda; *Background to the Budget 1981-82*; Ministry of Planning and Economic Development, Kampala, 1981, Table 3 page 14.

Republic of Uganda; *Key Economic Indicators - 18th Issue - July 1994*; Statistics Department, Ministry of Finance and Economic Planning, Entebbe - Table 13 page 15.

**Plantain, Finger Millet, Maize, Sweet Potatoes, and Cassava Production** -

1975-78 - Republic of Uganda; *Background to the Budget 1981-82*; Ministry of Planning and Economic Development, Kampala, 1981, Table 4 page 17.

1979 - Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982, Table 1.5 page 31.

1980-81 data from Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989, Table 45 page 167 and Table 46 page 168.

1982-92 - Republic of Uganda; *Background to the Budget 1994-95*; Ministry of Finance and Economic Planning, Kampala, 1994 - Table 37 page A36.

**TABLE 10A**  
**GHANA - GOVERNMENT REVENUE AND EXPENDITURE**

YEAR	GOV'T REVENUE (Cedis million)	GOV'T REVENUE as % of GNP	GOV'T TOTAL DEFICIT (Cedis million)	GOV'T DEFICIT as % of EXP'DITURE	NET EXTERNAL FINANCING (Cedis million)	NET EXTERNAL FINANCING (% of deficit)
1975/76	814.8		-623.8		-0.7	
1976/77	1,074.6		-870.6		5.0	
1977/78	1,539.1		-1,478.5		-5.8	
1978/79	2,187.8		-1,906.5		-7.7	
1979/80	3,026.1		-1,645.4		290.0	
1980/81	3,279.1		-4,440.2	- 57.5	481.7	10.8
1981/82	4,545.0		-4,299.0	- 48.6	-	-
1982	4,642.5	5.4	-5,135.6	- 52.5	215.1	4.2
1983	10,241.0	5.6	-4,514.3	- 30.6	970.1	21.5
1984	22,641.0	8.5	-4,050.0	- 17.9	1,816.0	44.8
1985	40,311.0	12.0	-5,453.0	- 11.9	3,522.0	64.6
1986	73,625.0	14.8	+2,966.0	+4.2	5,614.0	n.appl.
1987	111,046.0	15.3	+8,911.0	+8.7	1,180.0	n.appl.
1988	153,791.0	15.0	+9,894.0	+6.9	2,255.0	n.appl.
1989	214,513.0	15.4	+18,047.0	+9.2	4,927.0	n.appl.
1990	267,347.0	13.4	+12,874.0	+5.1	24,590.0	n.appl.
1991	390,690.0	15.4	+50,428.0	+14.8	12,730.0	n.appl.
1992	396,143.2	13.4	- 102,669.8	- 20.6	0	-

Sources:

Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. XI No.2 June 1993, Table 38 page 49 and Table 94 page 119.

**TABLE 10B**  
**UGANDA - GOVERNMENT REVENUE AND EXPENDITURE**

YEAR	TOTAL GOVT REVENUE (Shs million)	TOTAL GOVT REVENUE as % of monetary GDP	GOVT TOTAL DEFICIT (Shs million)	GOVT DEFICIT as % of EXPENDITURE	NET EXTERNAL FINANCING (% of deficit)
1975/76					
1976/77					
1977/78			+1,642.8		
1978/79			1,889.1		
1979/80			1,562.8		
1980/81	2,730		9,300.0		
1981/82	24,390		6,300.0		
1982/83	528.2		165.4		21.9
1983/84	947.9	19.3	221.5		13.6
1984/85	1,698.9	16.0	630.8		21.4
1985/86	3,228.2	13.1	1,638.3		29.0
1986/87	5,858.0	7.9	5,557.0	54.1	24.5
1987/88	27,902.3	12.0	5,499.1	12.7	10.1
1988/89	61,127.4	11.5	14,436.0	20.5	89.4
1989/90	111,349.9	13.9	57,914.4	45.6	129.7
1990/91	279,996.8	25.4	78,295.3	41.0	89.6
1991/92	373,809.4	22.4	196,103.3	57.7	81.5
1992/93	568,497.4	25.4	159,596.7	41.7	128.3

Sources:

1980-81 and 1981-82 - Total Revenue - source - B to B 1986/87 - Table 6 page 71 - data prior to currency reform - i.e. divide by 100

additional sources - check earlier sources

1977-78 to 1981-82 - check when the currency conversion (i.e. divided by 100) took place

Republic of Uganda; *Background to the Budget 1993-94*; Ministry of Finance and Economic Planning, Kampala, Table 6 page 47 and Table 10 page 51.



**TABLE 10C**  
**UGANDA - GOVERNMENT TAX AND NON-TAX REVENUE**

YEAR	GOV'T TAX & NON-TAX REVENUE (Shs million)	GOV'T TAX & NON-TAX REVENUE as % of monetary GDP
1977/78	5,841.4	
1978/79	2,674.0	
1979/80	3,883.3	
1980/81	2,700	
1981/82	24,000	
1982/83	522	20.8
1983/84	930	19.6
1984/85	1,602	16.2
1985/86	2,844	12.9
1986/87	5,007	7.5
1987/88	18,321	7.7
1988/89	48,832	8.9
1989/90	92,968	11.1
1990/91	135,950	12.1
1991/92	183,770	10.6
1992/93	291,074	12.1
1993/94	388,452*	13.8

Sources:

1977-78 to 1981-82 - check when the currency conversion (i.e. divided by 100) took place

1977-78 to 1981-82 - Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982 - Table 1.34 page 56 and Table ? page ? (1977/78 Tax against 1978 GDP etc.) for percentages??

1982/83-1987/88 - Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989 - Table 8 page 138 and Table 2 page 133 (1982/83 Tax against 1983 GDP etc.).

1988/89-1993/94 - Republic of Uganda; *Background to the Budget 1994-95*; Ministry of Finance and Economic Planning, Kampala, 1994 - Table 11 page A14 and Table 2 page A5.

Note: \* Preliminary Outcome

TABLE 11A  
GHANA - RECORDED EMPLOYMENT  
(Thousands in establishments employing 10 or more persons)

YEAR	PUBLIC SECTOR	PRIVATE SECTOR	TOTAL
1975	323.7	107.7	431.6
1976	327.4	103.2	430.6
1977	317.6	105.5	423.1
1978	335.0	97.9	432.8
1979	338.5	90.2	428.7

Source:

Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. I No.6 September 1982, Table 40 page 44.

TABLE 11B  
GHANA - RECORDED EMPLOYMENT  
(Thousands in establishments irrespective of size)

YEAR	PUBLIC SECTOR	PRIVATE SECTOR	TOTAL
1981	175.7		207.9
1982	236.0	43.6	279.6
1983	254.3	57.7	312.0
1984	386.3	64.5	450.8
1985	397.1	67.2	464.3
1986	347.4	66.3	413.7
1987	315.3	79.0	394.3
1988	251.6	55.0	306.8
1989	176.9	38.2	214.9
1990	189.4	40.2	229.6
1991	155.7	30.6	186.3
1992			
1993			

Sources:

Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. XI No.2 June 1993, Table 47 pages 58-60.

TABLE 11C  
UGANDA - RECORDED EMPLOYMENT  
(Thousands)

YEAR	PUBLIC SECTOR	PRIVATE SECTOR	TOTAL
1975	204.6	163.1	367.7
1976	200.8	164.7	365.5
1977	206.6	161.1	367.7

Sources:

Republic of Uganda; *Background to the Budget 1982-83*; Ministry of Planning and Economic Development, Kampala, 1982, Table 1.18 page 44.

TABLE 11D  
UGANDA - EMPLOYMENT FOR SELECTED MANUFACTURING ESTABLISHMENTS  
(Average Number)

YEAR	EMPLOYMENT
1983	
1984	31,784
1985	22,314
1986	15,607
1987	17,313
1988	19,286
1989	18,008
1990	18,469
1991	16,373
1992	15,945
1993	15,309

Sources:

1984-88 - Republic of Uganda; *Background to the Budget 1989-90*; Ministry of Planning and Economic Development, Kampala, 1989, Table 56 page 176.

1989-93 - Republic of Uganda; *Background to the Budget 1994-95*; Ministry of Finance and Economic Planning, Kampala, June 1994, Table 44 page a41.

TABLE 12A  
GHANA - MONTHLY EARNINGS FROM EMPLOYMENT  
(per employee in establishments employing 10 or more persons)

YEAR	PUBLIC SECTOR (cedis)	PRIVATE SECTOR (cedis)	TOTAL (current cedis)	TOTAL (constant 1977 prices)	Consumer Price Index (National) 1977=100
1975	95.90	118.70	101.60	343.24	29.6
1976	108.80	130.90	114.00	246.75	46.2
1977	211.46	231.65	214.96	214.96	100
1978	214.53	291.97	226.13	130.62	173.1
1979	269.32	368.59	285.83	106.93	267.3
1980					

Sources:

Earnings - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. I No.6 September 1982, Table 41 page 45.

National Consumer Price Index - Republic of Ghana; *Quarterly Digest of Statistics* ; Central Bureau of Statistics, Accra, Vol. I No.6 September 1982, Table 1 page 3 and Table 42 page 46.

TABLE 12B  
GHANA - MONTHLY EARNINGS FROM EMPLOYMENT  
(per employee in establishments irrespective of size)

YEAR	PUBLIC SECTOR (cedis)	PRIVATE SECTOR (cedis)	TOTAL (current cedis)	TOTAL constant 1977 prices	Consumer Price Index (National) 1977=100
1981	579	672	593		868.7
1982	607	868	465		1,062.4
1983	1,071	1,301	1,110		2,367.4
1984	2,122	3,280	2,287		3,304.2
1985	3,163	4,572	3,347		3,647.2
1986	7,333	7,956	7,433	163.61	4543.1
1987	9,324	15,310	10,524	165.68	6352.0
1988	12,738	18,660	13,805	165.45	8343.9
1989	21,869	35,356	24,257	232.14	10449.3

Sources:

Earnings - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. XI No.2 June 1993, Table 48 page 61.

National Consumer Price Index - Republic of Ghana; *Quarterly Digest of Statistics* ; Statistical Service, Accra, Vol. XI No.2 June 1993, Table 49 page 62.

TABLE 12C  
UGANDA - EARNINGS FROM EMPLOYMENT IN MANUFACTURING  
(per employee in selected establishments)

YEAR	TOTAL ANNUAL EARNINGS (all employees) (current prices) (US\$ m)	AVERAGE ANNUAL EARNINGS PER EMPLOYEE (current prices) (US\$)	AVERAGE ANNUAL EARNINGS PER EMPLOYEE (1991 prices)	COMPOSITE PRICE INDEX (1991=100) *
1989	2834.76	157,417	223,730.8	70.36
1990	4373.95	236,826	270,195.1	87.65
1991	5739.12	350,523	281,138.1	124.68
1992	8637.81	541,725	334,315.6	162.04
1993	12569.46	821,050	475,282.2	172.75

Sources:

Earnings - Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, June 1994, Table 44 page A41.

Composite Price Index - Republic of Uganda; *Background to the Budget 1994-95* ; Ministry of Finance and Economic Planning, Kampala, June 1994, Table 6 page A9. (Note that the index refers to the Fiscal Year).

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