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Proposals for the Agricultural Sectors in the Current
East African Development Plans: A Comparative Analysis

by

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LIST OF TABLES

- TABLE IA : Projected Gross Capital Formation, by Sectors.
- TABLE IB : Central Government Development Expenditure,
by Sectors.
- TABLE II : Gross Domestic Product Projections, by Sectors.
- TABLE III : Central Government Development Expenditures
on Projects and Programmes in the Agricultural
Sectors.
- TABLE IV : Quantity, Price and Gross Output Assumptions
for Agricultural Products.



TABLE 1A : Projected Gross Capital Formation during the Plan Periods : Uganda, Kenya and Tanzania : 1964/65 - 70/71

(£m)

Uganda: 1966/67 - 70/71				Kenya: 1965/66 - 69/70				Tanzania : 1964/65 - 68/69						
Category	Central & Local Govt.	Para-statal & Private	Total	%	Category	Central & Local Govt.	Para-statal & Private	Total	%	Category	Central & Local Govt.	Para-statal & Private	Total	%
Agric. & 1'stock	15.0	6.0	21.0	11.0	Agric. & 1'stock	6.9	48.2	55.1	17.0	Agric. & 1'stock	27.1	8.4	35.5	14.5
Forests, fishing & hunting	0.5	0.5	1.0	0.4	Forests & fishing	6.4	2.0	8.5	2.6	Forests & game	1.4	-	1.4	0.6
Mining and quarrying	-	3.0	3.0	1.3	Mining & quarrying	0.3	1.0	1.3	0.4	Mining & quarrying	2.2	3.1	5.3	2.1
Manuf. & Commerce	3.5	55.5	59.0	25.6	Manufacturing	0.2	61.5	61.7	19.0	Manuf. & Commerce	16.4	68.1	84.5	34.3
Construction	-	8.0	8.0	3.5	Construction	4.3	28.1	32.4	10.0	Housing & buildings	13.6	30.0	43.6	17.7
Electricity	-	23.0	23.0	10.0	Electricity & Water	3.7	24.0	27.7	8.5	Power	4.4	2.7	7.1	2.9
Transport & Comms.	16.0	24.0	40.0	17.4	Transport & Comms.	25.5	37.8	63.3	19.4	Transport & Comms.	14.6	18.0	32.6	13.3
Admin., Local Govt., Social Services and Rent	45.0	30.0	75.0	32.6	Social Services and Admin.	45.1	30.1	75.2	23.1	Social Services and Admin.	32.3	3.7	36.0	14.6
Total	80.0	150.0	230.0	100	Total	88.4	232.6	321.0	100	Total	109.7	134.0	243.7	100

Source: Uganda, Second Five Year Plan, Table 10; Kenya Revised Development Plan, Table 9, p.111; Tanganyika, Five Year Plan, Table VA

TABLE 1B : Central Government Developmental Expenditure in Current Development Plans: Uganda, Kenya and Tanzania (mainland)

(£m)

Uganda 1966/67 - 70/71				Kenya 1965/66 - 69/70				Tanzania 1964/5 - 68/69			
Category	Allocation	%		Category	Allocation	%		Category	Allocation	%	
Agric. livestock, Coops. and Fishing	20.9			Agric., livestock, Coops. and fishing	24.7			Agric., livestock, Coops. and fishing	21.8		
Water Development	5.1			Water supplies	4.7			Water and Irrigation	9.2		
Forests	0.3			Forests	5.9			Forests	0.9		
Minerals	0.6			Minerals	0.3			Minerals	2.2		
Game and Tourism	1.5	28.4	31.5	Game and Tourism	1.0	36.6	40.3	Game	0.4	34.5	34.6
Industry	1.7			Industry and Commerce	1.9			Manuf. and Commerce	13.9		
Roads and Telecomms.	12.9			Roads	21.6			Roads	12.1		
Airports	3.6	18.2	20.2	Airports	1.7	25.2	27.8	Airports and Harbours	1.3		
								Power	4.0	31.3	31.4
Education	15.6			Education	9.7			Education	14.0		
Health	10.8			Health	4.6			Health	1.8		
C'ty Devpt.	2.1			C'ty Devpt.	0.6			C'ty Devpt.	1.2		
Inf. & Radio	1.2			Inf. & Radio	1.3			Infor. & Radio	.4		
Housing	0.5	30.2	33.6	Housing	5.4	21.6	23.8	Housing & Urban Devpt.	3.4	20.8	20.8
Local Govts.	1.3			Local Govts.	2.0			Local Govts.	7.0		
Security and Admin.	11.9	13.2	14.7	Miscellaneous	5.4	7.4	8.1	Miscellaneous	6.2	13.2	13.2
Total	90.0	100		Total	90.8	100		Total	99.7	100	

Sources: Uganda, Second Five-Year Plan, Table 18, Kenya, Revised Development Plan, Table 12, pp.120-122; Tanganyika Five-Year Development Plan, Table V b.

- Notes:
1. Expenditure on Defence has been excluded throughout.
 2. The Kenya Plan excludes from the category of Developmental Expenditure a further £14.39m. to be spent on Land Transfer to small African farmers in the former 'White Highlands'. If it were included, the proportion of total expenditure in the primary producing sector would rise from 40.3% to 48.5%
 3. The Tanzania Plan excludes any calculation for recurrent expenditure consequential to capital investment; the Tanzania sectoral allocations above are understated, therefore, relative to those for Kenya and Uganda, particularly in the social services and administration.

TABLE II : Gross Domestic Product Projections by Sector : Uganda, Kenya and Tanzania (Mainland)
Monetary Sectors, 1964-71. (£m.)

Uganda : 1964 prices				Kenya : 1964 prices			Tanzania(mainland) : 1960 or current prices		
	1965	1971	% rate of growth p.a.	1964	1970	% rate of growth p.a.	1960-62 av.	1970	% rate of growth p.a.
Agriculture and livestock	74.7	95.9	7.1	46.2	66.3	6.2	43.6	82.8	8.2
Forests, fishing and hunting	3.2	4.3	6.0	1.8	4.6	16.8	2.4	3.7	5.6
Mining & quarrying	5.6	7.7	6.6	0.8	1.2	8.2	5.2	7.5	4.7
Manufacturing, incl. agric. processing	23.6	38.1	10.1	29.4	46.6	8.0	7.4	25.0	14.8
Commerce	39.0	54.6	7.0	38.6	55.4	6.2	22.1	44.2	8.0
Electricity	3.7	5.9	9.8	3.5	5.1	6.7	1.3	3.7	12.3
Construction	5.5	9.4	11.3	4.4	12.0	18.3	6.3	18.5	12.7
Transport & Comms.	6.9	10.3	8.5	26.3	39.5	7.0	8.7	17.2	7.8
Other Services	20.4	31.8	9.3	18.3	28.2	7.5	6.9	15.0	9.0
Rents	5.6	8.0	7.4	9.5	11.7	3.5	8.0	17.0	8.7
Total	197.7	279.7	7.2	212.8	321.6	7.1	124.5	259.8	9.6

Sources: Uganda, Second Five-Year Plan, Table 9; Kenya, Revised Development Plan, Table 1, p.83; Tanzania, Five-Year Development Plan, Tables I and II.

TABLE III : GENERAL GOVERNMENT INVESTMENT PROGRAMME
UGANDA, 1961

UGANDA		
<u>E. TRANSFORMATION PROJECTS</u>	£m	Remarks
<u>1. Plantation Crop Projects</u>		
Sugar	10.00	Two schemes; Includes private capital
Sisal	0.20	Plus U.D.C. investment
Soft Fibres	?	U.D.C.
Rubber	?	U.D.C.
Tea	4.3	10,000 acres; incl. U.T.G.C. and some private capital
Citrus	0.15	Group Farm
Cashew	- 14.55	
<u>2. Irrigation</u>		
Pilot Schemes	?	U.D.C./U.N.
Large-scale devpt.	-	
Small-scale schemes	-	
<u>3. Mechanised Arable Schemes</u>		
Wheat, etc.	-	
Cotton, etc.	4.29	Group farms

SUMMARY OF THE A.D.C. PROGRAMME AS LAID DOWN IN PARAGRAPH 1, TANZANIA (1964)

KENYA		TANZANIA	
£m	Remarks	£m	Remarks
1.90	Two schemes A.D.C. plus private investment	a) 2.16 b) 0.45	T.D.C. 3 villagisation schemes
-		1.70	5 villagisation schemes
-		-	
-		0.27	Rubber/Sugar New Land Settlement Scheme
4.10	28,100 acres, incl. some private capital also 7000 acres (£2.1m)	0.74	4,500 acres; plus private capital
-		-	
6.00		0.15	5.49 Villagisation
1.00	Tana R. plus four	5.80	
0.63	Mwea Rice Scheme	a) 0.65 b) 0.18	Tenant scheme State Rice Farm
0.17		0.50	7.13
1.80			
0.15	A.D.C./Masai scheme with sheep	a) 0.18 0.15	State Farm with sheep Villagisation
-		1.05	7 Villagisation

UGANDA

Oilseeds, etc	-	
Tobacco, etc.	-	
Soya, etc.	-	
Others	-	
<u>4. Small-holder Settlement schemes</u>		
New Land Settlement	?	
Land reform	-	
<u>5. Ranching Schemes</u>	0.20(est.)	Ankole Scheme
<u>6. Other Transformation Inputs</u>	-	
<u>B. IMPROVEMENT PROJECTS</u>		
<u>1. Land Consolidation</u>	-	
<u>2. Soil Conservation</u>	-	
<u>3. Tractor Hire Service</u>	1.50	Mainly for cotton
<u>4. Agric. Credit</u>	1.20	
<u>5. Crop Production Programmes</u>		
Cotton	2.70	Credit and subsidies
Coffee	3.20	Arabica expansion and wet processing for robusta

KENYA		TANZANIA	
		a) 0.28	New land settlement
		b) 0.30	2 villagisation
		0.07	Scheme extension
2.15	A.D.C. State and supervised Farms (+£2.64m)	2.65	16 villagisation schemes
0.35	Improvement of present schemes (£9.65m. land transfer)		
1.21(est.)	State & Group Ranches A.D.C. scheme plus private capital	a) 10.38 b) 0.28 c) 0.26	State Ranches Coop. Ranches Settlement Ranches
		0.92	
		a) 0.23 b) 0.55	T.D.C. unall. Settlement Ministry overheads
		0.78	
4.36			
0.36			
?	No allocation		
a) 1.0	Large farms, plus £2.1m land transfer	0.61	N.D.C.A. Other credit is earmarked for specific schemes
b) 4.3	Small farms		
c) 1.0	A.D.C. schemes		
6.3			
	Credit from Cotton Board surplus	1.05	No allocation for processing.
	Private funds for research	1.08	

	UGANDA		KEN. A		TANZAL	
	£m	Remarks	£m	Remarks	£m	Remarks
Cocoa	0.30		-		0.02	
Groundnuts	0.70	Plus private capital for processing	-		0.03	
Tobacco	0.46		-		0.15	
Pyrethrum	-		-	Private funds for research	0.08	
Pineapple	-		0.40	Credit	-	
Passion Fruit	-		-	Private investment in	-	
Cashew	-		-	processing	0.60	
Hortic. crops	-	No allocation	-		-	
Wheat	-		-		0.09	
Misc.	0.17	Gen. extension staff-under-estimated?	0.12		1.22	Incl. £1.07m for transfer processing from private to coop. control
	7.53		0.52		4.32	
<u>Livestock Production Programmes</u>						
Dairy	2.60		0.34	Another £1.05m. mentioned in Plan, incl. £0.4m. from Dairy Board	0.76	
Beef	2.80	Plus para-statal funds	a) 1.21(est.)	Grazing Schemes	a) 0.56	Testse & Disease Control
			b) 0.30	Tsetse Control	b) 0.52	Masailand Development
			c) 1.09	Plus £0.6m from K.M.C.	c) 0.57	Research & Breeding
					d) 0.27	Marketing
Pigs	-		0.09		-	
Sheep & goats	-		0.13		-	
Poultry	-				0.06	
Other	1.73	Plus para-statal funds	0.19		0.06	Cattle/coconut schemes
Education & Training	-		-		0.23	
	7.13		3.35		3.03	
Rural Water Supply	3.5(est.)		a) 2.06	Crops	2.1	
			b) 0.68	Ranching		

	UGANDA		KENYA		TANZANIA	
	£m	Remarks	£m	Remarks	£m	Remarks
C. NON-SPECIFIC PROGRAMMES						
1. Education & Training	a) 1.32 b) 1.30	Agric. & Coop. Training Farm Schools	2.10	Plus U.S.A.I.D. funds	0.74	Incl. 18 F.T.C.'s
2. Research	0.26	Under-estimated?	a) 0.18 b) 0.21	Agric. research Water supply research	a) 0.39 b) 2.05 c) 0.50	Agric. Research Research and training unall. Increased field survey work.
3. Feeder Roads	5.00(est.)	.800 miles for tea, sugar, coffee, etc.	6.73	Esp. tea, sugar and settlement	6.06	
Total A	19.04 +		11.76 + 14.39	Land Reform	19.12 +	
Total B	20.86 +		17.51 +		10.06	
Total C	7.88		9.22		9.74	
Overall Total	47.78 +		38.49 + 14.39		38.92	

Notes: 1. Including Agricultural Processing and Marketing.
2. Abbreviations used in this Table:

U.D.C. - Uganda Development Corporation
 U.T.G.C. - Uganda Tea Growers Corporation
 A.D.C. - Agricultural Development Corporation (Kenya)
 T.D.C. - Tanganyika Development Corporation.
 N.D.C.A. - National Development Credit Association (Tanzania).
 U.S.A.I.D. - United States Agency for International Development.

TABLE IV :

Quantity, Price and Gross Output Assumptions for Agricultural Products:

	UGANDA				KENYA			TANZANIA			
	1966	1971	% growth p.a.	% total growth	1963 or 64	1969	% growth p.a.	1960-62	1970	% growth rate	% total growth
Robusta Coffee											
'000 tons	190	240	+ 4.8	-	-	-	-				
£/ton	150	79	- 5.5	-							
£m	20	19	-	(2.2)							
Arabica Coffee											
'000 tons	10	20	+ 15.0	-	39	70	+ 12.5	27	49	+ 7.7	
£/ton	290	245	- 3.4	-	n.s.	n.s.	n.s.	216	249	+ 11.4	
£m.	3	5	-	4.5	n.s.	n.s.	n.s.	7	12	-	10.4
Cotton Lint											
'000 tons	77	103	+ 6.0	-	4	17	+ 32.8	34	81	+ 11.4	
£/ton	219	192	- 2.6	-	n.s.	n.s.	n.s.	199	181	- 1.1	
£m	17	20	-	6.8							
Sugar											
'000 tons	115	230	+ 15.0	-	35	146	+ 27.2	28	102	+ 17.8	18.7
£/ton	41	40	- 0.2	-	n.s.	n.s.	n.s.	1.7	1.7	0	
£m	5	9	-	9.1				1	2	-	12.1
Groundnuts											
'000 tons	154	224	+ 7.8	-	n.s.	n.s.	n.s.	16	45	+ 13.1	
£/ton	42	43	+ 2.6	-	n.s.	n.s.	n.s.	45	55	+ 2.5	
£m	6	10	-	9.1				1	3	-	4.2
Tea											
'000 tons	10	19	+ 13.7	-	21	31	+ 8.2	4	10	+ 12.2	
£/ton	340	332	- 0.5	-	n.s.	n.s.	n.s.	395	410	+ 0.5	
£m	3	6	-	6.8				2	4	-	4.2
Tobacco											
'000	4	7	+ 11.8	-	n.s.	n.s.	n.s.	2	6	+ 12.3	
£/ton	150	127	- 3.2	-	n.s.	n.s.	n.s.	227	250	+ 1.2	
£m	1	1	-	0				1	1	-	0

	UGANDA				1963 or 64
	1966	1970	% growth p.a.	% total growth	
Pyrethrum					
'000 tons	-	-	-	-	14
£/ton	-	-	-	-	n.s.
£m	-	-	-	-	
Cocoa					
'000 tons	-	3	-	-	-
£/ton	-	167	-	-	-
£m	-	1	-	2.2	-
Oilseeds					
'000 tons	170	130	+	6.2	n.s.
£/ton	15	15	+	0.1	n.s.
£m	3	3	-	0	n.s.
Sisal					
'000 tons	-	2	-	-	67
£/ton	-	100.0	-	-	n.s.
£m	-	neg.	-	0	n.s.
Wheat					
'000 tons	-	-	-	-	142
£/ton	-	-	-	-	n.s.
£m	-	-	-	-	n.s.
Cashewnuts					
'000 tons	-	-	-	-	8.3
£/ton	-	-	-	-	n.s.
£m	-	-	-	-	n.s.
Maize					
'000 ton	n.s.	n.s.	-	-	n.s.
£/ton	n.s.	n.s.	-	-	n.s.
£m	n.s.	n.s.	-	-	n.s.

KENYA			TANZANIA			
1969	% growth		1960-62	1970	% growth	% total
	p.a.				rate	growth
12	+	23.2	2	6	+ 15.8	-
n.s.		n.s.	260	250	- 0.5	-
				2	-	4.2
-		-				
-		-				
-		-				
n.s.		n.s.				
n.s.		-	n.s.	n.s.	n.s.	-
n.s.		-	n.s.	n.s.	n.s.	-
65	-	0.5	206	270	+ 3.4	-
n.s.		-	70	90	+ 0.32	-
n.s.		-	14	24	-	20.7
182	+	5.2	n.s.	n.s.	-	-
n.s.		-	n.s.	n.s.	-	-
n.s.		-	n.s.	n.s.	-	-
11.9	+	7.5	45	85	+ 8.5	-
n.s.		-	34	37	+ 0.7	-
n.s.		-	2	3	-	2.1
n.s.		-	160	282	+ 7.4	-
n.s.		-	17	16	- 0.8	-
n.s.		-	3	5	-	4.2

	UGANDA				KENYA			TANZANIA			
	1966	1971	% growth p.a.	% total growth	1963/4	1969	% growth p.a.	1960-62	1970	% growth p.a.	% total growth
Seed Beans											
'000 tons	n.s.	n.s.	-	-	n.s.	n.s.	-	22	42	+ 8.7	-
£/ton	n.s.	n.s.	-	-	n.s.	n.s.	-	45	50	+ 1.3	-
£m	n.s.	n.s.	-	-	n.s.	n.s.	-	1	2	-	2.1
Rice											
'000 tons	-	-	-	-	11.5	22.0	+ 13.8	32	75	+ 11.2	-
£/ton	-	-	-	-	n.s.	n.s.	-	25	20	- 2.6	-
£m	-	-	-	-	n.s.	n.s.	-	1	2	-	2.1
Pineapple & Fruits											
'000	n.s.	n.s.	-	-	20.1	42.0	+ 15.9	n.s.	n.s.	-	-
£/ton	n.s.	n.s.	-	-	n.s.	n.s.	-	n.s.	n.s.	-	-
£m	n.s.	n.s.	-	-	n.s.	n.s.	-	n.s.	n.s.	-	-
Other Crops											
'000 tons	-	-	-	-	n.s.	n.s.	+ -	n.s.	n.s.	-	-
£/ton	-	-	-	-	n.s.	n.s.	-	n.s.	n.s.	n.s.	-
£m	58	68	-	22.7	n.s.	n.s.	-	n.s.	n.s.	-	-
Meat											
lbs. 'million	255	315	+ 4.4	-	beef ('000 heads)			beef ('000 tons)			
£/'000 lbs	47	46	- 0.3	-	182	288	+ 8.0	126	190	+ 5.2	-
£m	12	15	-	6.8	(£ per head)			84	84	0	-
					35	39	+ 3.1	11	16	-	10.4
Milk											
gals. 'million	79	105	+ 5.8	-	61	82	5.0	40	56	+ 4.3	-
£/'000 gals	213	200	- 1.2	-	n.s.	n.s.	-	64	63	- 0.3	-
£m	17	21	-	9.1	-	-	-	3	4	-	2.1

	UGANDA				KENYA			TANZANIA			
	1966	1971	% growth p.a.	% total growth	1963/64	1969	% growth p.a.	1960-62	1970	% growth p.a.	% total growth
Hides and Skins								Hides ('000 pcs.)			
'000 tons	4	4	+ 1.9	-	n.s.	n.s.	-	1400	1800	+ 3.2	-
£/ton	256	302	+ 3.4	-	n.s.	n.s.	-	(£ per '000 pcs)			
£m	1	1	-	0	2	2	-	625	694	+ 1.4	-
Animal Byproducts											
'000 tons		3	-	-	n.s.	n.s.	-	n.s.	n.s.	-	-
£/ton		32	-	-	n.s.	n.s.	-	n.s.	n.s.	-	-
£m		neg.	-	-	n.s.	n.s.	-	n.s.	n.s.	-	-
Eggs											
million doz.	17	21	+ 5.0	-	n.s.	n.s.	-	n.s.	n.s.	-	-
£/'000 doz.	103	105	+ 0.3	-	n.s.	n.s.	-	n.s.	n.s.	-	-
£m	2	2	-	0	n.s.	n.s.	-	n.s.	n.s.	-	-
Pig Products											
'000 heads	-	-	-	-	46	59	+ 4.2	Pork ('000 tons)			
£/head	-	-	-	-	20	19	- 0.8	1	1	+ 3.7	-
£m	-	-	-	-	1	1	-	(£/ton)			
								167	163	- 0.3	-
								neg.	neg.	-	-
Meat (Sheep & Goat)											
'000 tons	-	-	-	-	-	-	-	16	25	+ 5.8	-
£/ton	-	-	-	-	-	-	-	112	116	+ 0.4	-
£m	-	-	-	-	-	-	-	2	3	-	2.1

METHOD OF FIELD RECORDING

Outline Process Chart

Farmers to be observed

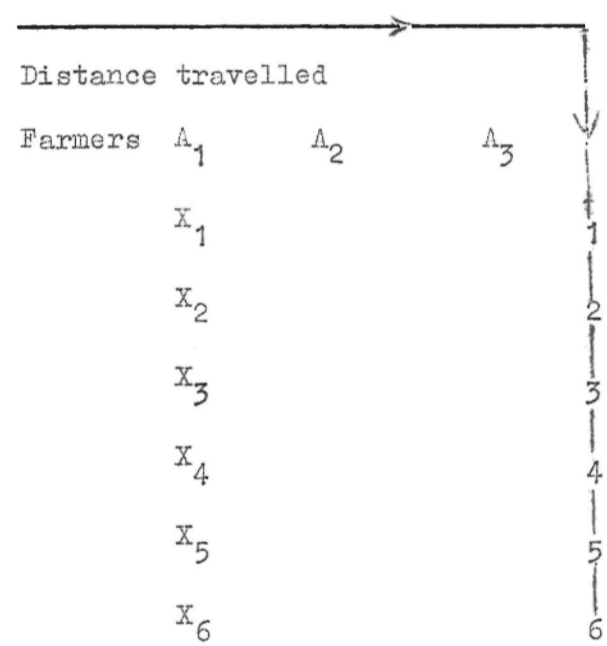
Date

Owner of plot

Job

Chart begins

Chart ends



Summary

- Areas cultivated (or amount of work) by each
- Time taken $((X_5 - X_2) - (X_4 - X_3))$ hours.....
- Total participants (men women children....)
- Total area cultivated (or total amount of work)

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