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FOOD PLAN FOR AFRICA (1978-1984)

AND

A PRELIMINARY ASSESSMENT OF THE FOOD AND AGRICULTURAL ASPECTS

OF THE LAGOS PLAN OF ACTION

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EVALUATION OF THE IMPLEMENTATION OF THE REGIONAL FOOD PLAN FOR AFRICA (1978-1984) AND

A PRELIMINARY ASSESSMENT OF THE FOOD AND AGRICULTURAL ASPECTS OF THE LAGOS PLAN OF ACTION

I. INTRODUCTION

- 1. This paper compares the food and agriculture related targets in the Regional Food Plan for Africa (AFPLAN) and the Agricultural Chapter of the Lagos Plan of Action (AGC/LPA) with actual results since 1978 and 1980, when these prescriptions were adopted as the basis for overall agricultural development in Africa. Reasons for the gaps between targets and results are also presented. The purpose of the assessment is to provide a more realistic basis for future action.
- 2. AFPLAN, which was jointly prepared by FAO and ECA, was adopted by the FAO Regional Conference of African Ministers of Agriculture in Arusha (1978), and endorsed by the Fifth Meeting of the ECA Conference of Ministers in Monrovia (1979). It laid down the medium-term actions and strategies required to promote food production and the long-term perspectives for agricultural development. A path for the development of the agricultural sector up to 1990 was charted, based on recommended policies and programmes at national and inter-governmental levels. Actions at the national level included preparation and implementation of priority policies, programmes and projects aimed at achieving regional food self-sufficiency. On the other hand, priorities at the inter-governmental level required African governments to undertake joint ventures for food production and intra-regional trade.
- 3. The Lagos Plan of Action (LPA) is an action plan for the implementation of the 1979 Monrovia Strategy for the Economic Development of Africa. It was adopted by the Heads of State and Governments at their extraordinary summit in Lagos, April 1980.
- 4. LPA was submitted to the UN General Assembly in September 1980 as a working document at the time the Assembly was preparing an international development strategy for the Third Development Decade. The African part of the strategy drew considerably from the Lagos Plan of Action and, together with the Monrovia Declaration, is now an integral part of the International Development Strategy for the Third United Nations Development Decade, adopted by the 11th Special Session of the UN General Assembly on New International Economic Order.
- 5. LPA is a multi-sectoral plan of action which outlines the aspirations and intentions of the African people. It calls for a restructuring of Africa's economic base and the transformation of social and economic systems, many of them inherited from the colonial past, as a means of promoting integrated and self-reliant development. It has raised great expectations in Africa and the rest of the international community.

- 6. The Agriculture Chapter of the LPA (AGC/LPA), prepared by an inter-agency group convened jointly by the OAU and ECA and comprised of OAU, ECA, FAO, ADB, WFC and IFAD, was basically a follow-up to AFPLAN. The objectives and strategies of AFPLAN were made more concrete by focusing attention on the most urgent short-run priority measures to arrest the decline in food and agricultural production during the Plan's first five-year period (1980-1985).
- 7. Both AFPLAN and LPA were adopted against the background of two decades of stagnating or declining food and agricultural performance. The African food crisis was characterized as having two aspects: one the food production/demand gap, which continued to widen; the second, a corollary to the former, was the increasing problem of hunger and malnutrition for large sections of the populations of African nations. The position which was taken by the African authorities in the AFPLAN/LPA in essence represents a formal awareness of the persistent crisis and the commitment to grapple with the problem, as indicated by the LPA declarations.
- 8. The Heads of States, among other statements, declared: "Thus Africa is unable to point to any significant growth rate, or satisfactory index of general well-being, in the past 20 years. Faced with this situation, and determined to undertake measures for the basic restructuring of the economic base of our continent, we resolve to adopt a far-reaching regional approach based primarily on collective self-reliance." This declaration applied particularly to the agriculture sector. Of all the major geographical regions, Africa was the only one that experienced declining per capita food production in the previous two decades. There was also a decline in export crop production, in effect compounding the food crisis into an agrarian crisis. The prolonged poor performance of both food and export crops was a major factor explaining Africa's general economic stagnation.
- 9. With regard to agriculture, the LPA's stated aim was to bring about an immediate improvement in the food situation while laying the foundation for the long-term strategy of achieving regional food self-sufficiency as envisaged in AFPLAN. This objective was to be achieved through less reliance on modes of development external to the region, and more emphasis placed on a new approach to development based on more self-reliant development strategies. 1/
- 10. Section II of this paper deals with LPA goals and priorities for the food and agriculture sector. Section III outlines progress made in achieving the targets. The major causes of poor performance are outlined in Section IV. Section V views prospects for improving the food and agriculture situation in Africa.

^{1/} For a departure from this viewpoint, see the 1981 World Bank report, Accelerated Development in Sub-Saharan Africa: An Agenda for Action (the so-called "Berg Report"), which advances a different vision of economic development strategy for Africa.

More recent World Bank writings have, however, expressed more moderate and flexible views — as, for example, Toward Sustained Development in Sub-Saharan Africa: A Joint Program of Action,

11. It should be noted that the main focus of this assessment is on AFPLAN and Chapter I of the LPA, "Food and Agriculture". However, there are other broader goals and requirements outlined elsewhere in the LPA (e.g. the chapters on industry, human resource development, natural resources, science and technology, trade, women and environment) which are closely linked to food/agricultural progress and to improvement of rural well-being. These are also referred to in the evaluation of performance that follows.

II. SPECIFIC OBJECTIVES AND TARGETS FOR FOOD AND AGRICULTURE

- 12. With respect to food and agriculture, the medium-term objective of the LPA was "to bring about an immediate improvement in the food situation and to lay the foundations for the achievement of self-sufficiency in cereals and livestock and fish projects" through policies that also improve living conditions in rural areas and increase farmers' real incomes. The Plan of Action stresses that policies for food self-sufficiency should aim at solving, simultaneously, the problems of undernourishment and malnourishment, and that increased agriculture production should be based on adequate and realistic agrarian reforms. The aim was at least to "halt and, if possible, to reverse within 1980-85, the alarming trends" of the ever-worsening food self-sufficiency ratio (SSR, calories domestically produced as a percent of total calorie supply), which between 1978 and 1980 had decreased from 95 to 92 percent.
- 13. Specific targets and measures are recommended for the control of food losses, and the development of food security, food production, and forestry, as summarized in the following paragraphs.
- 14. The LPA envisaged significant progress toward a 50-percent reduction in post-harvest food losses in every African country between 1980 and 1985. To achieve this, each country would have to undertake a careful assessment of the magnitude of current food losses, formulate policies for loss reduction, develop and propagate efficient methods of reducing losses, provide storage and other relevant infrastructural facilities, and set up adequately staffed technical food loss control units.
- 15. It was recommended that every African country adopt coherent national food security policies and translate them into concrete actions. In particular, for most countries, the establishment of national strategic food reserves of the order of 10 percent of total food production was to be considered as a high-priority measure.
- 16. While a favourable scenario assumed a 7-percent increase in GDP per annum for agriculture this growth was to be not less than 4 percent a year. Quantitative and qualitative improvements were strongly recommended with respect to all food crop production. For most countries the principal immediate objective was a very rapid increase in the production of tropical cereals in order to reduce dependence on imports of wheat and barley. Urgent action was

recommended for increasing food-crop production. This included promotion of better agricultural practices; strengthening incentives to small farmers; soil and water conservation; flood control and drainage; expansion and improvement of irrigation; promotion of improved hand tools, draught animals and, where justified, mechanized farming; and physical infrastructural development.

- 17. The main areas recommended for increased efforts with regard to livestock production were training; control of trypanosomiasis, tick-borne diseases, and foot-and-mouth disease; animal breeding; range management; animal feeds; and infrastructure.
- 18. Regarding <u>fisheries</u>, the Lagos Plan of Action proposed a target increase in annual fish production of one million tonnes between 1980 and 1985 for the continent as a whole. In order to attain this, the principal measures recommended at the national level were the development of industrial off-shore fleets; improvement of artisanal fisheries; expansion of aquaculture; improvement of shore-based infrastructure and communications with markets; improvement of traditional fish processing methods; and review of existing fishing agreements and their renegotiation as necessary.
- 19. African countries were urged to intensify efforts to integrate forestry more fully with agriculture and other land use, especially through village and farm-level programmes. The LPA also recommended the conduct of national forestry inventories, the expansion of areas under forestry regeneration programmes by 10 percent per annum and of forest reserves by 10 percent between 1980 and 1985, and a progressive reduction of exports of unprocessed logs.
- 20. The important roles of research, training, extension and other services in support of agricultural production and the need for their strengthening, reorientation and inter-linkage within the context of integrated rural development were stressed in the Lagos Plan of Action. The development of effective and efficient institutions for rural development planning and monitoring, data collection, provision of agricultural credit and inputs, transport and marketing, agro-industrial development, storage, and processing were also strongly recommended.
- 21. The LPA called upon governments to formulate and apply effective and coherent income and price policies that provided adequate incentives to small farmers while safeguarding the interests of the poorer consumers at the same time. Emphasis was also placed on the need to ensure that the design and implementation of agricultural and rural development programmes generally contribute to a reduction in income inequalities in rural areas.
- 22. Despite the clear primacy of policies and measures recommended to be formulated and executed within the context of individual countries, the LPA assigned an important role to intensifed technical and economic cooperation at the subregional and regional levels on matters such as the establishment and operation of food security

systems, food distribution, pest management and disease control, the management of shared fisheries resources and of international lake and river basins, the development and supply of agricultural inputs, fuelwood and charcoal production, forest industries, and research and training. The vital need to expand intra-African trade in food and other agricultural products was particularly stressed.

- 23. Self-reliance at the national, subregional and regional levels is a dominant theme of the LPA. It was recognized, however, that achievement of the Plan's objectives called for massive external assistance, both capital and technical, and agencies of the UN Family were expected to play a leading part in the mobilization of this assistance. The financial resources required for the 1980-85 period were estimated to be about US\$22 000 million at 1979 prices, and 50 percent of this investment was envisioned as being mobilized from African sources.
- 24. The LPA recommended the establishment of inter-agency "strategy review missions" which, on request by governments, would assist countries in determining the manner in which its various recommendations were to be applied in specific contexts. In the same vein, FAO, in cooperation with other relevant agencies, was enjoined to expand its programmes for the development of national capabilities to identify, prepare, execute, monitor and evaluate agricultural development projects and programmes for the implementation of Plan of Action.
- 25. The LPA further recommended that governments adopt annual goals for food and agriculture and establish appropriate machineries for monitoring and reporting regularly on progress toward these goals. FAO, with other relevant agencies, would consolidate the national progress reports and present them to the FAO Regional Conference, the ECA Conference of Ministers and, finally, the OAU Summit Conference.

III. PROGRESS AND ACHIEVEMENTS

26. The following paragraphs of this paper review, on the basis of available data, the performance of the food and agricultural sectors of African economies. The aim is to assess the progress made in the period 1978-84 in relation to the objectives and targets of AFPLAN and the agriculture chapter of the Lagos Plan of Action.

A. Trends in food and agricultural production

1. Overall trends

27. As shown by Table 1, available data point to the overall worsening of the food and agricultural output situation in the region during the early 1980s. For both food and agricultural production, the average annual rate of growth was only 1.7 percent from 1978 to

1984. Population grew faster than output. Per capita agricultural and food production growth rates have, therefore, been negative.

2. Trends according to commodities

28. As shown by Table 2, per capita net production of food declined by nearly 2 percent a year during the 1980-84 period. Per capita net production of non-food items (mostly cash crops for export) declined 2.9 percent a year. Total production of vegetables and fruit, meat and other livestock products, roots and tubers, pulses and sugar crops increased during those five years, whereas total production of cereals and oil crops declined.

TABLE 1

FOOD AND AGRICULTURAL PRODUCTION INDICES,
DEVELOPING COUNTRIES IN AFRICA, 1978-84

	1978	1979	1980	1981	1982	1983	1984	Annual rate of change (%) 1978-84
PRODUCTION INDICES (1974-76=100)								
Food production	105	107	111	113	117	113	117	1.7
Agricultural production	104	107.	110	112	116	112	116	1.7
Per capita food				• • •				
production	96	95	95	94	94	88	89	-1.4
Per capita agric. production	95	95	95	93	94	88	88	-1.4
POPULATION (millions)				٠٠.	· · .	,	,	,
Total	361 248	373 254	385 259	397 264	409 269	422 275	435 280	3.1 2.0
Agricultural	240	254	259	٠.`	209	215	200	2.0

Source: FAO statistics printout, Rome, 11 December 1984

3. Trends according to subregions within Africa

29. In Africa, where countries vary significantly in such aspects as geographical and population size, natural resource endowments, weather conditions, management capabilities and socio-political characteristics, food and agricultural production performance has differed considerably from one country to another. There are, indeed, countries where food output has registered positive growth since the late 1970s. FAO data for 46 African countries indicate that five of

TABLE 2

ANNUAL GROWIH OF AGRICULTURAL AND FOOD PRODUCTION IN DEVELOPING AFRICA, BY COMMODITY GROUPINGS

		Percent			Exponentia		
	1980-81	1981-82	1982-83	1983–84	growth rate 1980-84		
TOTAL POPULATION	3.1	3.1	3.1	3.1	3.1		
Food/Non-food groups							
Food							
Total production a/	1.5	4.1	-3.7	3.6	1.1		
Per capita	-1.6	0.9	-6.6	0.4	-2.0		
Non-food							
Total production	0.6	-1.0	1.3	0.1	0.2		
Per capita	-2.4	-4.1	-1.8	-3.0	-2.9		
Agriculture		2.0	2.4	2.4	1.0		
Total production	1.5	3.8	-3.4	3.4	1.0		
Per capita	-1.6	0.6	-6.3	0.2	-2.0		
COMMODITY GROUPS				•			
Cereals							
Total production	-4.9	6.5	-14.0	2.1	-3.2		
Per capita	-7.8	3.2	-16.6	-1.1	-6.1		
Roots and tubers							
Total production	2.4	5.0	-6.7	8.1	1.4		
Per capita	-0.7	1.8	~9. 5	4.8	-1.7		
Sugar crops							
Total production	10.7	7.6	-1.4	-2.7	3.3		
Per capita	7.2	4.5	-4.3	-5.6	0.2		
Pulses	0.0	0.3	. 2.5	2.5	1.0		
Total production	-0.8	8.3	- 2.5	-2.5	1.0		
Per capita Dil crops	-4.1	5.2	-5. 3	-5.6	-2.1		
Total production	0.3	5.6	-9.9	4.1	-0.6		
Per capita	-2.8	2.5	-12.7	1.0	-3.7		
egetables and melons			~~•,	1.0	3.7		
Total production	3.1	5.5	2.8	3.4	3.8		
Per capita	_	2.3	-0.4	0.3	0.6		
ruit				,			
Total production	0.1		-	2.6	0.5		
Per capita	-3.0	-3.0	-3.0	-0.6	-2.5		
livestock products				•			
Total production	3.6	3.5	2.3	1.1	2.7		
Per capita	0.5	0.4	-0.8	-2.0	-0.4		

Source: FAO statistics printout, Rome, 11 December 1984

a/ Net production; i.e. gross production less feed, seed and losses.

the best performers have been Swaziland, Libyan Arab Jamahiriya, Algeria, Ivory Coast and Rwanda. Their median index of food production during the period 1980-84 was 16 percent above 1978-79 levels. The five countries in the group which suffered the largest declines produced a median of 6 percent less in 1980-84 than in 1978-79.

30. Broader patterns of 1980-84 food and agricultural production within developing Africa according to subregions are shown in Table 3. 1/

B. Reduction of food loss

- 31. If prevention of food loss (PFL) measures and programmes were to be successfully initiated in Africa, they would rapidly improve the grave shortage of food situation that Africa is experiencing. The LPA resolution to reduce food loss by 50 percent by 1985 has evoked both national as well as supporting international action. In this connection, there is recognition of the necessity to address elements of this problem. The elements include: i) assessment of loss in the post-harvest system; ii) plant protection from rodents and birds; iii) development of plant pathology particularly in such areas as prevention of rotting of fruits and vegetables; iv) plant breeding aiming at development of species which are better suited for storability and processing; v) agronomic expertise which would advise on appropriate planting and harvesting periods; vi) climatological knowledge relating to storage; and vii) the structural engineering and mechanical disciplines that are pertinent to design of storage structures, packaging and processing of food.
- 32. PFL endeavours of governments in the region vary in scope and range as to which of the above programme elements receive special focus. The crucial aspect in this effort is the integration in the normal agricultural and rural development programme of the post-harvest factors. PFL activities embrace production, harvesting, storage, processing and marketing. This prompts the incorporation of PFL aspects in all these activities.
- 33. The international community has, after the UN General Assembly in 1975, focused attention on post-harvest food losses in staple foods in Africa. Multilateral and bilateral development agencies have

Developing Africa, as defined here, consists of all states on the African continent including the islands of Seychelles, Mauritius, Madagascar but excluding South Africa, the Sudan, Egypt and the Libyan Arab Jamahiriya.

TABLE 3

ANNUAL GROWTH OF AGRICULTURAL AND FOOD PRODUCTION COMPARED TO POPULATION GROWTH, BY DEVELOPING AFRICA SUBREGIONS

		Percent	change		Exponential
Subregion	1980-81	1981-82	1982-83	1983-84	growth rate 1980-84
NORTHWESTERN AFRICA					
Agriculture					
Total production a/	10.5	11.4	-1.8	5.1	1.5
Per capita	-13.3	2.0	-4.9	1.9	-1.7
Food			- •		
Total production	-10.9	11.5	-1.9	5.1	1.4
Per capita	-13.5	8.1	-5.0	1.9	-1.7
Population	3.1	3.2	3.2	3.2	3.2
WESTERN AFRICA			,	:.	
Agriculture		•			
Total production	3.7	3.0	-7.2	6.4	0.6
Per capita	0.5	-0.1	-10.0	3.2	-2.4
Food		•	•		
Total production	3.4	3.6	-7.4	7.2	0.8
Per capita	0.2	0.4	-10.2	3.9	-2.3
Population	3.2	3.2	3.1	3.2	3.1
CENTRAL AFRICA	•				
Agriculture					
Total production	2.4	3.4	-0.2	1.6	1.8
Per capita	-0.4	0.7	-2.8	-1.1	-1.0
Food		•			
Total production	2.9	2.9	0.6	1.1	1.8
Per capita	0.1	0.2	-2.0	-1.6	-0.9
Population	2.7	2.7	2.7	2.7	2.7
EASTERN AFRICA	_				
Agriculture	4, 1			_	
Total production	2.8	2.3	0.6	-1.3	1.1
Per capita	-0.5	-1.0	-2.7	-4.4	-2.1
Food			ž.		
Total production	3.6	. 2.5	-0.1	-2.2	1.0
Per capita	0.3	-0.8	-3.2	-5. 3	-2.2
Population	3.7	3.3	3.3	3.2	3.3
SOUTHERN AFRICA DEVEL	OPING				
Agriculture					
Total production	5.1	0	3.8	3.2	0.5
Per capita	2.2	-2.8	-6.6	0.2	-2.4
Food					
Total production	5.7	0.4	-4.1	3.4	0.7
Per capita	2.8	-2.5	-6.8	0.5	-2.2
Population	2.9	2.9	2.9	2.9	3.0
<u>.</u>	_ • •		_,,,		3.0

Source: FAO statistics printout, Rome, 11 December 1984

<u>a</u>/

Net production; i.e. gross production less feed, seed and losses.

joined the African governments in dealing with this problem through joint projects and financial assistance. FAO is an executing agency for some of these donor-financed projects. 1/

- 34. Recognizing the importance of farmers and the general public being informed of the implications of food losses, a few years ago the ECA as an executing agency for a bilateral donor formulated a regional mass media campaign project on food losses. The project has been implemented for several African countries. The ECA has also recently prepared a major regional project on PFL and on the improvement of storage capacity. Donor finance is being sought to fund the project.
- 35. IFAD and UNDP have been the main multilateral agencies that have helped to financed pilot PFL projects. Among bilateral donors, USAID, CIDA, SIDA, NORAD and DANIDA have allocated sizeable amounts of resources in donor assistance to the PFL programmes. Pilot projects undertaken so far have led to compilation of useful data on PFL methods appropriate for local conditions. The region can now benefit by utilizing the findings of the projects.

C. Strategic food reserves

- 36. Maintenance of strategic food reserve (SFR) constitutes one of the important elements in the food development strategy of the LPA. Governments in Africa have began taking positive actions on the establishment of national systems food reserves. Information maintained by the FAO food reserve monitoring system (see Table 4) shows that 28 countries in the region have formulated explicit strategic reserve policies. This is approximately half the states in the region. An additional eight countries are reported to be maintaining stock practices.
- 37. The success of SFR in the region will depend on the clear statement of objectives, policies and efficient management of the systems. As shown in the analysis of these aspects of SFR presented in Table 4, 25 states have subscribed to the first objective of maintenance of supplies to domestic and export markets. Thirty countries have been pursuing the second objective, which is concerned with meeting emergencies. The third is stabilization of prices,

^{1/} Of the projects being executed by FAO, l is located in Benin, 7
 in Burkina Faso, 3 in Burundi, 2 in the Republic of Cameroon,
 l in the Central African Republic, l in the Comoros 2 in Congo,
 l in Chad, 5 in Ethiopia, l in Gabon, 2 in the Gambia, 4 in
 Ghana, l in Guinea, l in Guinea-Bissau, l in the Ivory Coast, l
 in Kenya, l in Lesotho, 2, in Liberia, l in Madagascar, 2 in
 Mali, l in Mauritania, 2 in Mozambique, l in the Niger, 3 in
 Nigeria, l in Rwanda, 2 in Senegal, 4 in Sierra Leone, 3 in
 Swaziland, 5 in the United Republic of Tanzania, 6 in Togo, l in
 Uganda, 2 in Zaire, 4 in Zambia, and 8 are regional projects.
 Total outlays on all these projects amount to US\$ 8.5 million.

pursued by 23 countries. The fourth, which eleven governments have adopted, is concerned with meeting public distribution programmes. Only one country in Africa is known to have adopted the fifth objective of meeting international commitments such as food aid. The sixth objective of strategic considerations has been adopted by seven countries.

- 38. It should be noted that the majority of African countries maintain stocks for reserve purposes. Seventeen countries are known to maintain stocks exclusively for reserve. Eleven other countries maintain stocks for both reserve and working purposes.
- 39. As shown in Table 4, many countries in Africa have established target levels of stocks to maintain. The virtual absence of actual stocks reflects the serious food situation which the African region has faced in the last few years. Only Egypt and Sierra Leone reported possession of significant levels of stocks in 1984. Other states might have had extremely low levels of stocks that were not reported.
- 40. Some insights into causes of the precarious stock reserve situation are found in an analysis, in the concluding section of Table 4, of the constraints to the attainment of the prescribed levels of stocks. Six constraints are identified. Twenty-four African countries indicated that they were constrained by <u>insufficient</u> domestic production. This is underscored by the negative rates of growth of food production discussed above.
- The inadequacy of foreign exchange to effect imports is given as the cause of the low level of stocks by 16 countries. explained largely by the serious balance-of-payments problem that African countries have faced. Aggregate imports of agricultural, fish and forestry products are shown in Appendix Table IV by country. Africa's import bill rose from US\$12 400 million in 1978 to over US\$18 000 million in 1983. In the same period, as shown in Appendix Table III, Africa's agricultural exports declined from US\$13 900 million in 1978 to US\$12 800 million in 1983. Africa, in absolute terms, has had adverse balances of trade in agricultural fish and forestry products in the past decade. The adverse balance of trade is much larger for the non-agricultural items. This has been caused partly by the deterioration in "terms of trade". The outcome has been a serious balance-of-payments problem and rising international indebtedness. Poor performance in the food and agriculture sector has played a major role in aggravating the economic, financial and social problems in Africa. Solutions to these problems are to be found in the development of the sectors. This is a problem that, as the LPA advocates, must be addressed by the member governments of the ECA and OAU themselves, and of course assisted by the international community as a whole.
- 42. The third constraint to the development of stock systems is <u>lack</u> of storage facilities. Thirteen countries have given this as an obstacle to their development of the strategic reserve systems.

TABLE 4 STRATEGIC FOOD RESERVES - NATIONAL CEREAL STOCK POLICIES AND PRACTICES IN AFRICA

	Eapti- cit stock	pract-	,				stock			tocks	Stock target	Actúal	Stocks	Stock owner=	(0		ints in a		ing
COUNTRY	policy.				!!						ade- quate?			ship Govern-			. .		ĺ
			in supplies	ergencies	re prices	public distri- programmes	international con-	considerations	0 113			target (X)		ment(C) Pri- vate(P)	nt domestife	foreign exchange	storage facilities tation difficulties	cal problems of management	financial or
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Source: - Replies by governments to the questionnaires on Mational Food Stock Policies and Practices;
- FAO Food Security Assistance Scheme;
- International Wheat Council, "Mational Stockholding Policies", Secretariat paper No.13, April 1983; and
- other official and unofficial sources.

Footnotes: a/ Estimated on the basis of official target expressed in percentage of annual consumution;
- D/ Target relates to maize only.
- G/Mour called Burking Fasq

- 43. The fourth and fifth constraints are <u>transportation difficulties</u> and <u>the technical problems of stock management</u>. Seven and five governments respectively have attributed their difficulties to these constraints.
- 44. Other financial and organizational problems were considered by seven countries as the cause of their inability to maintain strategic stocks.
- 45. Subregional strategic food reserve (SFR) systems have been discussed by subregional economic groupings, such as the Preferential Trade Area for Eastern and Southern African States, the Southern African Development Coordination Conference (SADCC) and the Economic Community of the Great Lakes Countries. However, it is disappointing to note that there has been little progress in their development. Cooperation among governments in the establishment of subregional SFRs is important, and would open up new opportunities for formulating projects which cannot be funded and implemented efficiently by individual nations.

D. Agricultural services and institutional development

- 46. The development of agricultural services and institutions receives emphasis in the LPA as well as in the already published strategy blueprints of the OAU member states. These include marketing, research and transfer of technology, agricultural extension and credit.
- The situation that has prevailed in countries in Africa on agricultural services and institutions which are crucial to the performance of the food and agricultural sector in the post-LPA declaration period leaves much to be desired. The poor performance of the sector can to a degree be attributed to inadequacies or shortcomings of governmental institutions in support of agricultural activities. State corporations charged with the marketing of farmers' produce and supply of farming inputs have continued to perform inefficiently and have not helped to improve food production incentives as much as they might have. Research institutions have been starved of resources. Many still focus more attention on export crops than on food crops that are important to small farmers, such as pulses, roots and tubers. Agriculture extension continues to be less than fully effective. Small farmers in many African countries have yet to be served with efficient credit institutions to finance their production activities. As discussed more fully in section IV of this paper, the continued limitations of agricultural services and institutions in Africa arise from a combination of both external and internal causes, some of which have exerted unusually severe influence these past several years.
- 48. There have been, however, a few exceptional undertakings to improve services and institutions related to needs of small farmers. These have also been carried out in the context of a cohesive strategy which gives high priority to food production.

- 49. For instance, in Mali, the activities of the large parastatal marketing organization (OPAM) have been given special attention. Considerable improvement has been made since 1980 in the restructuring and management of OPAM. Evidence of this is found in the 20 percent reduction in the operating costs of the organization, in only three years.
- 50. The Gambia is reported to have made progress in the reorganization of the agricultural support services, and agricultural research, extension and training of high-level manpower.
- 51. Kenya has adopted a Sessional Paper on Food and Agricultural development which covers a wide range of elements of strategy and policies for the development of the sectors. These include: improving producer incentives, the marketing system (for cereals particularly), and the distribution system for agricultual inputs; directing more resources to research activities; and strengthening the credit system.
- 52. Nigeria's adoption of a food strategy in 1980 has given new emphasis to producer and consumer pricing, credit administration, and importation of agricultural inputs. However, the balance-of-payments problems which Nigeria has faced in the past several years appear to have adversely affected the implementation of that country's food strategy.
- 53. The Tanzanian Government recently published and adopted the Agricultural Policy of Tanzania and the Tanzania National Food Strategy. It gives high priority to the development of infrastructure, input supply, price review and marketing.
- 54. Zambia's food and agricultural development strategy also places emphasis on an efficient agricultural extension service, as well as development of research, storage, processing and marketing systems.
- 55. The foregoing paragraphs illustrate some of the positive actions which some of the member states are taking in addressing the improvement of agricultural services and institutions. There is, however, still much more to be done in this area.

E. Public expenditure on agricultural development

- 56. It is widely recognized that development strategies in many African countries did not accord appropriate priority to the development of agricultural sector, especially in the 1970s. One indication of this is the level of public expenditure that governments devoted to food and agricultural development relative to other activities.
- 57. LPA calls for public as well as private outlays in the food and agricultural sectors to be raised. The Plan estimated need for an investment of US\$22 000 million during 1980-85 for the identified

programme of development activities. This implies an annual expenditure of US\$4 400 million per annum. It was envisaged that approximately 50 percent of these outlays would be financed from domestic sources and the balance from external donor sources.

- 58. Resource flows from external sources, although below requirements, have shown a steady growth in recent years. From Table 5 it will be seen that concessional and non-concessional assistance to agriculture from bilateral and multilateral sources rose from US\$1 100 million in 1976 to US\$3 400 million in 1982.
- 59. FAO recently completed a study that provides useful insights about the trend of public expenditures for agriculture by 21 selected African governments. 1/ The average budgeted amount per capita per year was US\$19 in the period 1978-82, of which about two-thirds was in the form of capital expenditure and one-third was current expenditure. This per capita amount was lower than in the Near East and Latin America but higher than in the Asia and Pacific region.
- 60. For 14 African countries for which information was available, government development and recurrent expenditure budgets represented more than half 51 percent of total GDP. The individual country figures are shown in Table 6.
- 61. The share of public expenditure on the agriculture sector averaged seven percent in the 1978-82 period. If the FAO survey results are indicative (see Table 7), African countries have been devoting low percentages of public resources to agriculture relative to those in Asia and the Pacific. Among the 14 countries (see Table 8), Somalia devoted the largest share of resources to agriculture, and Kenya and the Gambia to a lesser degree. However, even in these countries the share of agriculture in total expenditure on all sectors was far below the contribution of the sector to total GDP.
- 62. African governments have not yet prescribed an appropriate parameter for public expenditure on food and agriculture. It has been noted, however, that the allocation is typically 10-15 percent in nations in the developing world which have successfully pursued agricultural development strategies and resolved their food problems to a large extent. 2/

The survey covered 57 countries of which 21 were in Africa.

Data on public expenditures for all sectors were obtainable for only 14 of the African countries. Results have been reported in Public Expenditure on Agriculture in Developing Countries 1978-82, FAO, Rome, 1984.

^{2/} Carl K. Eicher, West Africa's Agrarian Crisis, 1983, p. 29.

TABLE 5 BILATERAL AND MULTILATERAL ASSISTANCE TO AGRICULTURE IN AFRICA \underline{a}

			millions		ted in				
		1976	1980	1981	. 1982				
BOTH CONCESSIONAL AND NON-CONCESSIONAL									
Bilateral of which	DAC/EEC	557 484	1 421 1 360	1 674 1 562	2 318 1 864				
Multilateral of which	IBRD IDA	575 196 240	1 233 233 477	1 468 449 462	1 100 199 332				
Total		1 132	2 654	3 142	3 418				
CONCESSIONAL ONLY									
Bilateral of which	DAC/EEC	464 391	1 323 1 262	1 600 1 488	2 200 1 766				
Multilateral of which	IDA ADF	$\frac{468}{240}$	891 477 158	778 462 182	730 332 149				
Total		932	2 214	2 378	2 950				

Source: FAO external assistance data bank, Rome

a/ The figures shown are budgeted commitments and not actual expenditures. They are for the "broad" definition of agriculture and, in addition to the activities covered in the LPA estimates of requirements, include manufacturing of agricultural inputs, agri-industries, river basin and regional development, rural infrastructure and rural development. Grants for technical assistance are not included.

TABLE 6

BUDGETED EXPENDITURE ON ALL SECTORS AS A PROPORTION OF TOTAL GDP, 14 AFRICAN COUNTRIES, 1978-81

		ercent o			percent
Country	1978	1979	1980	1981	1978-81
Algeria	77.4	73.7	69.4	71.0	72.3
Benin	78.3	75.3	59.7	52.9	65.7
Cameroon, Rep. of	20.9	26.8	24.0	18.6	22.5
Central African Rep.	19.9	16.5	15.7	18.1	17.4
Gabon	35.4	33.0	29.8	52.5	37.7
The Gambia	79.2	59.6	51.1	42.5	56.6
Kenya	36.7	45.0	39.0	36.7	39.3
Liberia	26.2	34.5	31.5	40.1	33.3
Mali	15.5	13.6	14.2	14.3	14.3
Mauritius	34.4	35.7	33.6	35.6	34.8
Morocco	35.2	35.3	33.0	36.6	34.9
Somalia	35.3	24.6	23.1	19.7	25.1
Swaziland	93.9	72.2	77.8	62.4	74.7
Tanzania, United Rep.	27.0	37.0	38.8	40.9	36.2

Source: Public Expenditure on Agriculture in Developing Countries 1978-82, FAO, Rome, 1984

TABLE 7 SHARE OF AGRICULTURE IN BUDGETED PUBLIC EXPENDITURE ON ALL SECTORS $\underline{\mathsf{a}}/$

Regional and country	Number of countries			cultur	e in	,	Average percent
grouping		1978	1979	1980	1981	1982	1978-82
REGIONAL GROUPINGS							
Africa	14	6.5	7.0	7.0	7.6	6.7	7.0
Asia and Pacific	3	9.0	11.3	11.3	12.3	12.0	11.3
Latin America	15	6.0	6.5	6.6	6.5	6.7	6.5
Near East	2	7.3	8.0	6.9	7.7	7.3	, 7.5
ECONOMIC GROUPINGS				,			
LDCs	7	12.1	10.8	11.3	12.3	11.3	11.5
Non LDCs	27	6.3	6.9	7.0	7.0	7,3	6.9
Low-income	8	12.4		15.1	_		15.0
Non low-income	26	6.3	6.9	6.9	6.9	7.1	6.8
ALL COUNTRIES	34	6.4	7.0	7.1	7.1	7.3	7.0

Source: FAO study of public expenditures in agriculture, Rome

Data on public expenditure for all sectors were available for only 34 of the 57 countries surveyed. Annual comparisons were made using 1978 US\$ constant prices.

TABLE 8

SHARE OF AGRICULTURE IN TOTAL PUBLIC EXPENDITURE AND TOTAL GDP,
14 AFRICAN COUNTRIES, AVERAGE 1978-82

	Agriculture as	% of	Ratio of expenditure %
Country	Total expenditure		to GDP %
Algeria	5.9	6.4	.92
Benin	9.0	47.8	.19
Cameroon, Rep. of	8.8	31.9	.28
Central African Rep	p. 5.6	35.7	.16
Gabon	2.1	5.4	.39
The Gambia	13.6	31.8	.43
Kenya	15.5	36.4	.43
Liberia	10.0	34.6	•29
Mali	12.4	41.4	.30
Mauritius	10.4	12.7	.82
Morocco	7.0	17.3	.40
Somalia	30.7	60.2	.51
Swaziland	11.7	n.a.	n.a.
Tanzania, United Re	ep. 9.3	53.2	.17

Source: FAO survey on public expenditures on agriculture, Rome

F. INTRA-AFRICAN TRADE

63. LPA emphasized the desirability of promotion of intra-African trade which would promote regional self-reliance. Tables 9 and 10 provide an indication of transfers of agricultural items within Africa, to other developing countries and to the developed countries. It will be observed that the limited amounts of cereals exported by African countries went mainly to developing countries outside the African region. Considering agricultural items as a whole, African exports went predominantly to the developed countries. Subregional groupings to help facilitate intra-African trade are now evolving, but their potentials cannot reach full fruition until national policies, production capacities and trade structures are adapted accordingly.

TABLE 9

DEVELOPING AFRICA'S EXPORTS OF CEREALS
1970-82

	US\$ million						
-	1970	1979	1980	1981	1982		
Intra-African transfer	29	56	50	36	38		
To all developing countries	50	116	136	119	125		
To all developed countries	71	51	38	31	15		
Total	121	170	174	150	141		

Source: UN, Monthly Bulletin of Statistics, May 1984

G. Implementation and monitoring

64. As stated above, formulation of food and agricultural development strategies is only the beginning of a formidable task of effecting actual development. The strategies have to be translated into specific policies, and development projects and programmes have to be implemented for the achievement of agreed objectives and targets. Implementation monitoring systems must be established for maintaining surveillance on development activities.

TABLE 10

DEVELOPING AFRICA'S AGRICULTURAL EXPORTS
1970-82

	US\$ thousand million		
	1970	1982	
Intra-African transfer	0.3	1.0	
To all developing countries	~	2.9	
To all developed countries	5.4	11.7	
Total	6.1	14.6	

Source: UN, Monthly Bulletin of Statistics, May 1984

- 65. For the LPA agricultural chapter, FAO has developed a set of indices for monitoring trends in the achievement of targets and objectives. $\underline{1}/$
- 66. The indices cover population, gross domestic product, land use, domestic agricultural production, domestic food production, agriculture imports/exports, food imports/exports, fish catches and landings and forestry production and exploitation. In addition to these, methodologies have been formulated by FAO to measure post-harvest food losses, food security levels and improved agricultural practices, forestry management, research extension service levels, and agricultural services resources.
- 67. Some governments in the region are reported to be establishing these systems, but this is an area where some technical and financial assistance may be required so as to enhance the effectiveness of such monitoring and to mesh it well with other information needs.

H. Food and agriculture development strategy formulation

68. The awareness of governments in the Africa region of the food and agricultural development crisis cannot be questioned. In spite of this, the governments have not succeeded in translating their

^{1/} FAO Document ARC/84/5, Monitoring the Implementation of the Agricultural Part of the Lagos Plan of Action, April 1984.

aspiration to address this crisis into detailed programmes of action. The latter is a pre-condition for success in achieving LPA objectives and targets. However, initial measures are now being taken by governments. It is known that some governments have formulated general but comprehensive agricultural development strategies.

69. The governments of 12 countries have compiled and adopted cohesive food strategies as defined by the World Food Council. Some of them are reported to have commenced implementing certain elements of their strategies. The second category consists of countries which have made some progress in preparing the food and agricultural development strategies. The last group comprises countries which are in the early stages of compiling the strategies. The majority of the countries fall in this category. The foregoing demonstrates that governments in Africa are making headway in addressing the food and agricultural development of the continent in a more comprehensive manner than previously. The effort should be sustained.

I. Remarks on assessing performance

- 70. It is difficult to ascribe much that has or has not happened in 1978-85 to AFPLAN/LPA's existence, but the Plan does provide a food/agriculture production development framework around which to focus some key variables, targets and measures (or indications) of special relevance to stated goals. Policy implementation may require some time to take effect or "gel" so that the evaluation of the period under review may not reflect adequately the processes put in place.
- 71. The LPA as a development strategy and a statement of overreaching purpose for African development is normative in character in terms of strategy, policy and planning. But even when policies are formulated and resources made available, results are not automatic. Skilful implementation and effective meshing with other political-economic consensus are required. The dynamics of the LPA must, therefore, be fully recognized and these more elusive variables taken into account.
- 72. Another factor to be noted in such assessments as this is that the evaluation is based on available data. These data have their limitations, especially since many economic activities and transactions often escape official government marketing channels. This is especially so when it is not worth the farmer's while to grow a surplus for the official markets, fueling evermore a dynamic unofficial food economy. In that kind of situation, much may be happening with respect to those who are producing food and those who are benefiting which is not reported.

IV. POSSIBLE CAUSES OF POOR PERFORMANCE

73. There is no doubt that the performances of African economies and their food and agriculture sectors have been below the expectations of the African leaders as outlined in 1980 in the LPA. For the food and agricultural sector, a full discussion of the causes of this poor performance would ideally examine a wide range of subjects relating to food and agricultural development strategies, policies, planning, and sector management in each of the African countries. This is not possible here. However, available information does point to some problems that broadly explain the causes of the failure of the region to achieve the targets that LPA prescribed for the period 1980-85. These can be discussed under the headings of domestic and external causes.

A. Domestic causes

1. Structural characteristics of the agricultural sector

74. The poor performance of the food and agriculture sector arises principally from development strategies of the 1960s and 1970s which gave the sector a lower-priority ranking in African economies than industry and services. Those strategies have created structural problems, including infrastructure which is not attuned to domestic food needs. Transport, communication, storage, marketing and input-supply systems are inadequate to serve the majority of farmers in Africa, particularly small farmers in outlying places. Trained manpower to provide important agricultural services - including, among others, planning, extension, research, marketing, and pest control - is in short supply.

2. Leadership commitment

75. Secondly, to overcome the constraints to food and agricultural development created by the structural features of the sector, it was necessary that governments in Africa make a break with the past developmental strategies and give agriculture the highest ranking among sectors in a sustained manner. Although there has been obvious concern since 1978 by governments for this sector, the reforms to bring about the desired structural changes have not been initiated. The amounts of resources directed to the sector have remained relatively low. In the ECA document on proposed actions under LPA for 1986-90 (see E/ECA/CM.11/39), some priority aspects of food and agriculture requiring concerted leadership attention are underscored.

3. Persistent drought

76. Thirdly, although it can be argued that droughts frequently afflict African agriculture, the severe droughts which have adversely

affected production in many parts of Africa in the last five years have aggravated the precarious situation of food and agriculture on the continent. Development strategies and policies in the region have not always taken into account the likelihood and the consequences of severe drought in specific localities. Existing organizational mechanisms have sometimes impaired effectiveness in dealing with resulting hardships and needs for rehabilitation.

4. Rapid Population Growth

77. The rapid population growth, another phenomenon which can be anticipated, also accounts for the aggravation of the food and agricultural problem of the continent. Per capita growth rates of investment and output are lowered by the high rate of population growth taking place in Africa. Demand for food has risen rapidly, especially in association with migration of rural people to large cities and urbanization of food tastes.

B. External causes

- 78. Phenomena external to African economies which have adverse effects on the performance of the food and agricultural sector are also structural in character. Africa's exports, which are predominantly agricultural commodities, face a low annual rate of growth in the international markets. Imports to African economies, on the other hand, have been characterized with rapid annual rates of growth. This has resulted in large negative balances in the current accounts of African countries (see Table 11). This structural problem causes in turn adverse terms of trade between African countries and developed countries with which they trade.
- 79. Table 12 shows changes of terms of trade for developing countries for two periods since 1973. Sharp declines in Africa's terms of trade relative to Asia and middle-income countries can be observed. The foreign-exchange shortage which arises from this situation causes African governments to restrict imports. In many countries, import restrictions have affected importation of capital goods for the agricultural sector as well as importation of inputs such as fertilizers and pesticides which are vital for agricultural production.
- 80. Secondly, as indicated in an earlier section, external assistance for development of the agricultural sector has not been maintained at the level envisaged in the LPA. The Plan assumed the annual inflow into the region of external resources to finance food and agricultural development of US\$2 200 million. This target has not been attained in any year between 1980 and 1984. Data on external assistance to agriculture are given in Table 5.

TABLE 11

NON-OIL DEVELOPING COUNTRIES IN AFRICA (EXCLUDING SOUTH AFRICA)

BALANCE OF PAYMENTS, 1978-83

	US\$ thousand million							
	1978	1979	1980	1981	1982	1983		
Africa (excluding South Africa)	14					·		
Exports (f.o.b.) Imports (f.o.b.) Trade balance	-22.8	-26.9	-32.7	25.2 -31.5 -6.3	-29.1	-30.		
Net services and private transfers Balance on current account Net official transfers Net capital inflows Overall balance	-9.4 2.5 6.4	-9.9 3.1 6.6	-12.9 3.2 7.2	-7.7 -14.0 3.6 6.8 -3.6	-13.2 3.2 6.8	-13.4 3.2 7.3		

Source: IMF Annual Report, 1983, p. 189

TABLE 12

TERMS OF TRADE OF DEVELOPING COUNTRIES, 1973-82

			Change in purchasing power of exports (percent) b/				
Developing countries	1973-76	1979-82	1973–76	1979–82			
LOW-INCOME							
Asia Africa	12.1 -15.3	-3.2 -13.8	58.5 -18.7	15.7 -3.5			
MIDDLE-INCOME			•	•			
Oil importers Oil exporters	-9.5 59.9	-10.7 31.8	4.5 71.0	2.5 11.5			

Source: World Bank Annual Report, 1983, p. 13

b/ Product of terms of trade and export quantum index.

<u>a/</u> Export unit value index divided by import unit value index.

C. Feasibility of LPA targets

81. The failure of countries in Africa to achieve the LPA targets during the 1980-85 period raises the question whether these targets were reasonable in the first place. An ECA perspective study which attempted to translate LPA's strategy into specific targets recommended a 4.3 percent annual rate of growth in cereal production; a 3.0 percent increase in production of roots, tubers and pulses; and a 4.2 percent increase in meat production. 1/ For cash export crops, the following annual rates of production growth were recommended: coffee 3.9 percent, cotton 7.1 percent, cocoa 3.1 percent, tea 4.2 percent, and tobacco 4.1 percent. These growth rates were derived after careful evaluation of production potentials. The study concluded that they were feasible if resources and institutions could be effectively mobilized. Similar considerations were taken into account for establishing needed levels of expenditure in the food and agricultural sector. The preceding discussion of non-achievement of the LPA targets has taken cognizance of this.

V. PROSPECTS FOR IMPROVED FOOD AND AGRICULTURE SITUATION

- 82. Emergency situations in much of Africa have forced many countries to direct attention to activities which bear quick results. However, the severity of the food and agricultural problems facing the region demands that the continent's attention should place more focus on longer-term strategies, which not only address Africa's current food needs but also prepare for sustained increases in production of food and raw materials. As suggested in the paper on proposed LPA emphases for 1986-90, research, development and introduction of technologies and institutions adapted to African conditions should be considered as high-priority measures which merit considerable investment.
- 83. The adoption of AFPLAN, the Monrovia Declaration and the LPA is in itself a most promising prospect indicating the willingness and determination of the African leadership to solve these problems. In addition, the African governments have made some other important collective declarations on the current crisis facing the continent. The 19th Session of the ECA Conference of Ministers adopted a Special Memorandum on Africa's Economic and Social Crisis. During their Special ECA/OAU/ADB Meeting, the African Ministers of Finance adopted the Addis Ababa Declaration on Africa's External Indebtedness. The African Inter-Ministerial Committee for Food presented to the 10th Ministerial Session of the WFC what they considered was the basis for future action with respect to food and agriculture in Africa. In

ECA and Africa's Development 1983-2008: A Preliminary Perspective Study, April 1983.

July 1984, the 13th FAO Regional Conference for Africa adopted the Harare Declaration on the Food Crisis in Africa. The same Conference requested FAO to submit to the next Conference an in-depth study on Africa's food and agricultural problems. 1/

- 84. The daunting problems of food and agriculture currently facing the region have made some countries turn their attention more seriously to the development of this sector, including finding the root causes for the manacing food shortages. What emerged from the recent 20th OAU Summit was yet another expression of the determination to come to grips with the region's long neglected economic ills. It is to be recalled that, in adopting the Freetown Declaration, the 9th FAO Regional Conference expressed full determination "to maximize our efforts to develop agriculture in our continent, and give the latter the role it deserves in the world as a major food and agriculture producing continent". Toward this end, the member nations of FAO in Africa undertook, among other things, "to accord the food and agricultural sector a key position, commensurate with its primary role in our economies, in particular through the allocation of more investment resources...."
- 85. The objectives and targets of the LPA are within the African region's potential to attain; now the declared intentions should be matched with resolute action. Unfortunately, however, the limited attention given in the past to the food and agriculture sector has meant that only meagre resources are allocated to the sector. Some agricultural ministries and other institutions have retarded the development of agriculture through ill-conceived policies. The LPA expression of much needed political will cannot be fruitful, unless substantial changes in inter-sectoral imbalances are forthcoming through a deliberate human and financial resources reallocation policy. Reforms in national policies with respect to pricing, urban-biased development, social and institutional structures, and the tenurial systems in particular are essential initiatives in the direction of sound development policies.
- 86. After more than two decades of independence, African rain-fed crops produced for domestic use continue to suffer disproportionately, as compared to export crops, from official neglect of agriculture. The indigenous grains such as sorghum and millet have received the least research. Indeed, the African varieties of rice, millet, sorghum and barley which account for nearly 50 percent of the region's

The ECA Resolution 112 (VI) of 2 March 1964, on the transition of African agriculture from subsistence to market agriculture, requested the Executive Secretary, among other things, to collaborate with FAO and other appropriate agencies "in analysing the economic and technical factors involved in the modernization of agriculture and exploring policy measures which Governments may use to promote and regulate the development of agriculture to meet the growing and changing demands of the African economy."

grain production yield at a rate not much better than they did in the 1950s.

- 87. The African continent has a massive land area estimated to cover about 2 878 million hectares, excluding South Africa. This gives the region a very large potential land base for rain-fed agriculture. According to FAO 1/, most of the area (1 858 million ha) is classified as unsuitable and some 231 million ha are regarded as marginal land while 789 million ha are climatically suitable for rain-fed crop production. However, Africa cultivated only 168 million ha, or just over 20 percent, of this potential cropland in 1975. The area under arable and permanent crops has not been expanding much, at least not as much as population growth would dictate. In Africa this area grew by only 0.78 percent annually between 1969-71 and 1980 as compared to South America's 1.2 percent. The area under cultivation in Africa is expected to increase to 204 million ha and 248 million ha in 2000 and 2025 respectively.
- 88. The findings of the FAO study give results on potential based on three levels of input, namely, <u>low</u>, <u>intermediate</u> and <u>high</u>. Using fertilizer as a proxy for inputs, the low level is associated with a complete lack of fertilizer use; the intermediate level implies about 80 kg of nutrient/ha/crop for cereals; the high level is about double this amount.
- 89. In 1980, Africa was using 9.7 kg of nutrients per hectare, most of it on cash crops for exports. In the Near East, fertilizer use averaged 34 kg/ha and the Far East, 38 kg/ha, while the Latin American countries applied about 46 kg/ha. Africa's use of fertilizer rose to 10 kg/ha of arable land in 1981/82, but declined to 9 kg during the period 1982/83.
- 90. The large unused reserves of land meant that, in 1975, Africa was capable of supporting three times the actual population of that year with low input levels (or about 1 230 million people). With intermediate inputs, Africa's land resources could support nearly 12 times the 1975 population. With high inputs of technology, the population-supporting capacity of the region would increase almost 34 times. Moreover, this has to be viewed against another indicator of the performance of agriculture, i.e. average yields achieved on African farms. As shown in Table 13, yields of the most important African food crops in 1979-83 either stagnated or fell below what could be achieved, even with low levels of input use.

^{1/} FAO/UNFPA/IIASA Report, Potential Population-Supporting Capacities of lands in the Developing World, Rome, 1983 and FAO, Land, Food and People, Rome, 1984.

TABLE 13

YIELD INCREASES FOR SELECTED CROPS IN AFRICA AND OTHER DEVELOPING REGIONS

Region		1983 increase	
and crop		(kg per hectare)	over 1979-81
•	1969-71	1979-81 1982 1	983 (kg/ha)
AFRICA			1.
Sorghum	660	670 710 6	20 -50
Maize	1 000	950 1 090 9	80 +30
Millet	580	590 380 5	30 –60
Cassava	6 640	6 370 6 200 6 0	00 –370
Rice		1 380 <u>a</u> / 1 440 1 36	60 +20
NEAR EAST		,	
Wheat	1 070	1 460	
FAR EAST			
Wheat	1 200	1 550	
Rice	1 840	2 190 2 250 3 0	+860
LATIN AMERICA			
Wheat	1 390	1 490	
Maize	1 430	1 820 1 870 1 86	00 –20

Source: Compiled from <u>FAO Production Yearbook</u>, 1981 and 1983 a/ This figure is for 1981.

- 91. Table 13 demonstrates that these yields could be substantially increased, but this involves moving to a much higher level of technological application, with increased use of improved packages of inputs. This in turn calls for effective adaptive research for crops, livestock, fishery and forestry subsectors. Accessibility of these inputs by farmers is most imperative. The development of small-scale irrigation schemes whose main advantages lie in their low cost, seasonal flexibility and farmers' participation and control, as well as research to develop drought-resistant and early-maturing varieties and breeds, has received minimum government support. And yet these offer promising opportunities to enable the African countries to reduce their dependency on the vicissitudes of the environment.
- 92. With regard to investment, both domestic and external allocations of resources to food and agriculture have been below the critical quantum required to get this sector to take off (AFPLAN/LPA's US\$4 400 million a year in 1979 prices). To reach the implied levels of technological use, additional resources will be required.
- 93. Commitments of assistance to African food and agriculture have been increasing. The total from both multilateral and bilateral sources (including concessional and non-concessional, but excluding technical assistance grants) which was directly for food and agricultural production increased from US\$985 million in 1978 to US\$1 602 million in 1982. The additional amounts indirectly related to this (for processing agricultural inputs, rural/regional/river development, and forestry) increased from US\$770 million in 1978 to US\$1 815 million in 1982. (See Appendices VI and VII for individual country details.)
- 94. However, <u>disbursements</u> are a more accurate depiction of actual assistance flows. Disbursements to the African countries as a group between 1977 and 1983 are shown in Table 14. These reflect assistance commitments made from 1974 onwards, and they include assistance from multilateral agencies only. The lag between commitments and actual disbursements is an important factor explaining the rate of flow of external assistance to agriculture and the performance of the sector.

VI. CONCLUSION

95. This review has revealed a number of important issues. The main one is that, for most of Africa, the targets of the LPA have remained largely elusive. The production levels for crops, livestock, fishery and forestry as set out in the LPA are far from being achieved. No significant progress has been made toward reduction of food losses. Food insecurity has worsened and the laying down of foundations for food self-sufficiency is yet to be done. Current economic policies continue to owe their origins in the past and, therefore, have not changed much. As a consequence, institutions, infrastructures and investment patterns follow such past legacies. In addition to the non-realization of the LPA targets, several internal and external factors have also been spelt out in this report.

TABLE 14

DISBURSEMENTS OF MULTILATERAL LENDING TO AGRICULTURE
IN DEVELOPING AFRICA, 1977-83 a/

	US\$ million disbursed in									
Purpose	1977	1978	1979	1980	1981	1982	1983			
DIRECT TO AGRICULTURE										
NARROW DEFINITION <u>b</u> /										
Land tratage days language	. 25	46	79	. 57	55	71	52			
Land/water development Research/training/extension	25 1	1	1	3	55 6	8	18			
Inputs	Õ	î	3	12	11	35	23			
Agricultural services	12	34	48	42	51	62	72			
Crop production	44	62	79	125	101	27	151			
Livestock	15	12	14	20	26	27	45			
Fisheries	0	5	7	8	4	6	6			
Agriculture unallocated Total	37 134	51 210	52 282	79 345	103 355	159 468	246 612			
Iotai	134	210	202	343	333	400	012			
INDIRECT TO AGRICULTURE										
Forestry	6	15	16	17	20	18	25			
Manufacture of agricultural										
inputs	19	13	36	9	5	7	11			
Agro-industries	6	23	21	16	31	25	69			
Rural development/infra-	27	55	80	104	89	104	164			
.structure Regional/river development	2/	11	21	16	14	104	20			
Total	- 59	117	174	162	159	165	289			
-0002	-									
TOTAL DIRECT AND INDIRECT	193	327	456	507	514	633	901			

Source: FAO data bank on external assistance to agriculture, Rome

<u>a/</u> Reflects concessional and non-concessional loan commitments made between 1974 and 1983. Excludes technical assistance grants.

b/ Narrow definition in this table excludes forestry so as to be closer to the concept of food production.

- 96. The implementation progressed slowly partly because of the various crises that have hit Africa. Assistance from the international community will, therefore, continue to be needed, not only for combating emergency situations but also for rehabilitation of post-emergency agriculture, for support of African countries' policy and strategy adjustments, and for implementation of needed reforms.
- 97. In the immediate future, food supplies will remain critical for many countries. Hence the need for continued food aid. Already, no fewer than twenty countries are facing exceptional food availability problems in 1984/85. The solution to this endemic problem will depend less on technical answers than on drastic changes in political attitudes of countries. Improved future prospects will heavily depend on a new and far-reaching political commitment to accord priority given to food and agricultural investment. As Africa further urbanizes and modernizes, the broader links (industry, science and technology, manpower, etc.) which relate to the agriculture sector, will become increasingly important.
- 98. It is against this background that the food and agriculture problems and policy issues ought to be analysed. Discussion of proposals for LPA/Agriculture 1986-90 should therefore pay increased attention to the above matters.

AGRICULTURAL PRODUCTION TRENDS IN AFRICA

APPICA DEVILCTING

1961/65 - 1983

Page 33 APPENDIXI

				1701	, 05	,1 705						
DISCRIPTION	011	1961/65	1970	1975	1,980	1981	. 1982	1983	1969-82		OF CHAI 1971-80	
LARC USY TCTAL LARC AFABLE PEFF, CFCIS LAND IPPICATIC LARC FORYSTS A WOCLLERD	100044		233132F 139430 - 1799 ££8619	7331249 145534 7728 656387	2331244 150597 2598 647685	7331244 151816 2542 639873						
POPULATICH TCTAL AGPICULTORAL	1000	236438 183361	283575 203351	325689 220344	377565 254028	369218 259002	901337 264148	13924 269463		2.8	2.9	3.1 2.0
LABOUT FOFCE TOTAL AGRICULTURAL	1000	99934 78965	115921 87597	129545	145673 100754	149300 102168	153051 103641	156941 105151		2.43 1.4	2.3	2.5 1.4
WATIONAL ACCOUNTS TCTAL GEP AGRICULTURAL GET	MILL S COFFERT		· ·	· .	: · · .	I.					٠.,	. •
PRODUCTION AGRIC. FREDDOCTION TOTAL CREALS ROOT CREPS TOTAL FULSES OIL CREPS TOTAL REAT RILK TOTAL	100081	36976 55541 3366 10311 3011 5188	41929 67141 4523 11058 3710 6228	47216 75572 4773 11410 3818 6561	46511 80753 4763 10530 4615 7502	47820 81645 4025 10623 4693 7653		95613 84869 5180 10423 4791 8289	1.1 1.9 1.4 5 2.4 2.1	1-6 3-2 3-8 -1-1	1.2 2.0 2.0 -1.1 2.6 2.4	.7 2.3 1.3 2.0 2.1
LIVESTOCK (RUNBER) CATTLE SUPER GOATS PIGS	1000	108544 92574 103360 4346	124805 113046 119351 5753	126667 114355 117239 6959	135309 126614 129042 8585	136073 126572 129774 8625	1386 49 129457 132374 8988	140178 1-31670 134943 9098	.9 1.1 .9 3.7	2 2 7 3.2		.8 1.9 1.1 3.9
FISHPFY PRODUCTION PRESENTER 4 DIPONE HABIRT FISH SEELLFISH AQUATIC PLANTS	TROOPF		1195 1497 35	1288 1566 56 6	1302 1551 69 5	1289 1662 83 5	1256 1475 75		1.4 1 7.2 1.9	1.6 -2 9.5 -3.0	1.3 -1.9 7.4 -1.2	-2.0 -1.1 4.9 9
POFESTRY PRODUCTICS FUTLUCCE & CHAPCOL IPOUSTBIAL REGULACED SAMMOCD & PARTIS PAPER	1000CE 1000CE 1000CE	203715 21609 2429 92	233774 29409 3753 172	268785 30975 4855 218	312787 38919 7116 352	321682 38265 7111 356	330659 30997 7258 359		3.0 2.5 6.1 7.4	2.9 .2 6.3 4.6	3.0 2.7 6.5 8.5	2.9 1.6 5.1 5.2
BAJOR CCBRODITIE! (AGOFI 4FG PROCUCTION) CASSAVA YARS ISC CATTREAT FRETE DIAD F IDD CRCKREAT VECTIALES F RAILT BEE FGGS RICE, FADDY COG ELIK	1000AT 1000BT 1000BT 1000BT 1000BT BT 1000BT 1000BT	32692 18065 1825 265 4548 9678 304 3641 3812	39106 17926 1792 1195 379 5290 12003 308 0765	43333 2006 1721 1228 501 6024 15546 460 5553 9925	46008 20008 1958 1302 771 7198 13801 620 6082 5665	47748 20866 1984 1289 762 7269 15266 655 6133 5796	49494 21488 2050 1256 851 7580 14853 706 6195 6160	48812 22141 2064 896 7811 13912 741 6006 6366				
INDICES OF PRODUCTION FOOD PRODUCTION AGREC. PRODUCTION PER CAPUT FOOD HODD. PER CAPUT AGRIC. PROD.	1974-76 =100	76 76 105 105	92 93 106 107	100 100 100 100	109 109 95	110 110 93 92	115 110 93 92	115 119 90	1.0 1.7 -1.1 -1.2	1.8 1.8 -1.0 -1.1	1_8 1_7 -1_1 -1_2	2.4 2.4 6 7
POOD SUPELY /CAPUS/DAY CALOFITS PROTEINS PATS CALOF. AS % OF FEQUIE.	######################################		2167 54_7 40_1 93_7	2169 53. 6 40. 1 92.9	2235 55.9 43.1 95.8	2246 55_1 63.4 96_2		-				
MAJOR FCOD COMESTED (SERRE ON TOT_CICE_) BOOTS-TUBERS MILLET+SCEG_ HAIR! WHEAT OIL AND PAT	PEBCEET		21.7 15.5 12.5 8.6 6.9	21.1 14.4 13.2 1.7 7.3	19.6 13.2 12.4 11.1 6.5	19.4 13.1 12.2 11.3						
RELES OF PRODUCTICE TRACTORS AGRIC. IN USE FRUITILIZE PRODUCTION FRUITILIZE CONSESPTION	TRODOF	87955 146 267	155591 -567 -640	189794 634 953	213469 522 1430	217702 1017 1496			3.2 3.2 7.2	4.2 1.0 4.5	3.0 -1.0 5.3	2.2 6.5 12.2

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APPENDIX I cont'd

DARCETATION	0#17	1961/65		1975		1981		1983	1969-82 19	71-75	07 CHARG	78-62
PTTPPREI TEADE												
STPCFTS TEADY	MILL S			****		****						
TCTAL PFFCHARTIST AGFIC. PFOTUCTS		5154 2585	9251 3984	26687 6546	68388 10665	56307 9757	49464 8192					
MFAT		47	81	150	116	122	105					
DAIPT PPODUCTS CEPTALS		9 71	9 67	12	e 67	191	99					
OIL SHITS		312	223	718	164	128	112					
VEGSTABLE CYLS		166	202	402	319	248	293					
AGRIC. FEQUISITIS FISHTET PRODUCTS		131	204	1462	1316	1274 577	580					
FOR ATTE ANTERCAS		233	339	549	1144	906	8.9					
MAJOF CCEMODITIF:												
(SHAFF ON AG. !! .FC)	PEFCENT											
COCCE BEANS		14.6 12.4	18.5 15.8	17.2 16.2	22.9 18.1	19.0 14.9	22.3 12.6					
SUGAF, C. PAN		4.2	3.7	6.6	5.9	6. 2	5.9					
SALL VER YC		4.6		4.7	6.3	5. €	5-9					
COLICE TIMI		5.0	5.6	3.4	4.4	4.6	4.7					
TOPACCC CATTLE		2.9	2.2	7.9 1.0	2.5	3.5	3.9					
TEA		1.6	2.0	1.9	2.3	2.5	2.7					
OPANGY S		2.3	1.6	1.4	1.8	1.5	1.6					
COCO) FOTTER		- 4	1.5	2.3	1.8	1.5	1.5					
IRPOSTS	HILL S	•	,									
TOTAL PEFCHARDIST	""	5334	9461	30050	61749	63288	58950					
AGRIC. PROCUCTS		1163	1559	5255	10177	1:1037	10458 496					
HIAT DAIFY EBCDUCTS		56 101	49 155	108	1095	1251	1201					
CEPTALS	,	289	429	1746	3679	₹20 B	3987					
CIL SEPOS		.21	20	85	62	54	49					
VIGETAELY OILS AGRIC. REQUISITIS		55 108	74 252	360 962	684 1390	750 1371	711					
FISHERY PRODUCTS		100	. 66	240	736	735	529					
POSESTRY PROCUCTS		107	222	576	913	912	927					
BAJOS CCHROCITIFS			•	•			,					
(SHABE OF AG+FI4PC)	PPFCPWI	7.1	e.5	15.2	12.5	11.3	12.1					
RIL SAD FICE		5.8	5. 1	3.9	7.5	8.6	8.2					
SUGAS BEFIRE		7.6	5.6	6.6	7.9	8.0	7.5					
PLCOF WHYAT		3-9	3.1	3-0	4-4	4.7	4-3					
en altatab		1.2 2.6	1.5 2.6	2.5 2.5	4.2 2.9	4.3 3.1	3.1					
FINT ISH PR FZ			1.1	1.2	3.1	2, 9	2.3					
OTHER PAPER		2.9	4-3	3.€	2.6	2. 4	2.6					
SUCAR, C. PAU MILK SK DP C		5.6 1.5	2.7 2.0	9.Q 2.3	2.5 2.4	3.0 2.4	1.9					
	•											
INDICES CY TELEF	1974-76											
AGRIC. PROCUCTS	-100								• •	17.5		
AUTHE CL SIBOLI		43 92	57 105	91 95	150 87	121 87	113 86		8.9 -1.9	-1.6	12.8 -2.6	-5.6
DHIT VALUE OF EXPORT		43	53	97	176	143	131		11.2	19.5	16.2	-5.2
VALUE OF INFCIT		25	32	111	213	231	217		19.3	35-7	20-9	12-2
VCLUET OF INFCET		60 40	76 41	100 111	160 126	194	203 109		9.2 9.5	26.7	9.5 10.8	7,6
PCOB PECBECTS		40	•••	•••	120	***	,		, ,,,,		1020	
VALUE OF EXPCIT		92	56	98	143	116	103		8.1	20.4	11-7	-6.1
VOLUME OF EXPERT		100	107	95	86	85	85 120		-2.3 10.9	-2.9	-3.1 15.7	-5.
UNIT VALUE OF EXPORT		38 23	50 30	104 112	167 219	136	. 227		20.1	24.5 37.2	21.1	14.0
AOFREE OL IRECLA		59	76	99	193	206	218		9.8	3.6	10.0	8.1
GHIT VALUE OF IMPOST		39	36	114	121	120	105		9-7	31_1	10.3	5.0
SOCIOPCOBERIC IRRICATORS												
AGRGDP BE T TCTGIP												
AGREOP AS & TOTPCP		78	70 43	71 25	67 16	67. 16						
AGREEP AS & TOTETP AGRIND AS & TOTETP		5e 22	16	17	16	17						
AGREEP IS & TOTTE		56	42	22	17	1.5						
APAGLE LAND ASK TOTLAND			6	. 6	6	7						
ISPIGATIAND ASS IPPLAND			1	2	2	2						
AGBPOP PEB APALATO	AB/ON		1.5	1-6	1.7	1. 7 10						
PERT USE PER APAIAND TRACTORS PER ARAIAND	RG/SY		5	1	1	11						
The second in the second	- 2, - 4011		•	•	-							

Source: ESS Computer Printout for Food and Agricultural Production, FAO, Rome

DATE 11/12/84

SYS 11 COUNTRY	AFRILA	DE VEL CP II	46				į				PAGE	3 80
CCHHODITY	69/84	69/16	17/84	11/8C	71/75	76/80	80/84	74/84	90/61	81/82	82/d3	83/84
PCPULATION											******	
TOTAL 1000	3.040	2.890	3.142	3-025	2.892	3-144	3-135	3.124	3-134	3-128	3-132	3-151
GRUSS PRODUC	1-946	1.786	1.995	2.124	1.921	2.247	1-026	1-536	1.653	4.003	-3.739	3.345
NET PRODUCTI	1-890	1 - 74 G	1-980	2.051	1-866	2-217	1.084	1-693	1-515	4-059	-3-662	3.579
P.CAPUT GROS	-1-067	-1.071	-1-111	874	942	828	-2-044	-1-152	-1-424	-850	-6-668	- 192 - 419
PERCAPUT NET Non Floc	-1-117	-1-118	-1-126	946	996	903	-1-987	-1-194	-1-566	_897	-6.563	
GROSS PRODUC	. 241	-598	-568	1 32	-745	024	-218	. 244	- 552	-1-616	1-256	-14
NET PRODUCTI	- 240	-603	. 554	130	.718	036	-2 C8	- 240	-572	-1.039	1-268	- 14
P. CAPUT GROS	-2-718	-2.216	-2-499	-3-067	-2-069	-3.116	-2-817	-2-800	-2-366	-3.956	-1-907	-2.79
PERCAPUT NET	-2-718	-2-222	-2.522	-3.063	-2-103	-3_067	-2-855	-2-603	-2-354	-4-138	-1-771	-2-55
AGKICULTUKE GROSS PRODUC	1.846		1.920	1.597	1.853	2.171	-987	1-645	1.558	3-750	-3-495	3.18
NET PRODUCTI	1.792	1.719	1.899	1.919	1.793	2.171	1.038	1.798	1.459	3-767	-3.468	3-39
P. CAPUT GRUS	-1-159	-1.138	-1-185	558	-1-009	946	-2-064	-1-240	-1.454	-598	-6-415	. G2
PERCAPUT NET	-1.212	-1-185	-1-204	-1-074	-1-067	-1-029	-2.033	-1.287	-1-617	-634	-6-339	. 23
CROPS		- 10 133				,						
GROSS PRUDUC	1-436	1 - 73 2	1-422	1.579	1-962	1.531	.388	1.217	-966	3-813	-5.491	3.57
NET PRODUCTI	1.346	1.667	1.373	1-456	1.888	1.393	-427	1-125	-666	3-864	~5.5CO	4-30
P-CAPUT GROS	-1.557	-1.126	-1-668	-1-403	904	-1.546	-2-664	-1-650	-2-166	-668	-8-356	. 184
PERCAPUT NET	-1-645	-1-189	-1-714	-1.522	976	-1.702	-2-625	-1.939	-2-378	- 730	-8-370	1-13
CEREALS												
GROSS PRODUC	-912	1.795	026	1-638	1-422	1.523	-2.761	- 194	-3.614	6.634	-13-298	1.35
NET PRODUCTI P.CAPUT GROS	. 498	1-468	566	1.302	1-195	1-130	-3-179	294 -2-841	-4-926 -6-506	6-510 3-350	-13-990 -15-935	2.069
PERCAPUT NET	-2.064 -2.467	-1.064 -1.381	-3.075 -3.539	-1-344 -1-670	-1-424 -1-643	-1.577 -1.954	-5-734 -6-129	-3-316	-7-815	3-241	-16-551	-1-12
ROOTS AND TUBERS	-2.401	-1-361	-3.739	-1-010	-1-043	-1.954	-0-129	-3-310	-1-013	3.244	-10-331	-1-12.
GROSS PRUDUC	1-997	2-204	2-019	2.112	2.992	1-945	1.392	1.832	2-483	4-445	-6-013	7-50
NET PRODUCTI	2-048	2.362	2.054	2.124	3-103	1.924	1-429	4.637	2-430	4. 950	-6-671	8.113
P. CAPUT GROS	-1-012	667	-1-088	887	-101	-1.167	-1-689	-1-253	667	1-264	-8.883	4-241
PERCAPUT NET	965	514	-1-058	876	-206	-1-187	-1.660	-1-250	7C3	1.759	-9-498	4.79
SUGAR CROPS							,					
GROSS PRODUC	4-444	2. 70 9	5.117	4-287	1.372	4-659	3-557	5.374	10-707	7-769	-1.287	-1.95
NET PRODUCT!	4-380	2.633	4.966	4-278	1.444	4-636	3-312	5-300	10-76	7-615	-1-398	-2.73
P-CAPUT GROS	1-347	21 8	1-933	1-206	-1.492	1-540	-453	2-190	7-438	4-251	-4-077	-4-79
PERCAPUT NET	1.306	298	1-769	1-242	-1.376	1-499	-239	2-130	7-226	4-495	-4-302	-5.61
PULSES GROSS PRODUC	1.112	1.548	1. 229	2-568	5.871	263	-811	-617	754	7-606	-2.626	-2-146
NET PRODUCTI	1-155	1-152	1-518	2-724	5-700	097	-963	.680	764	6.335	-2.528	-2-480
P.CAPUI GROS	-1.871	-1.308	-1-843	463	2.903	-3-348	-2-188	-2.427	-3-627	4-507	-5-758	-4.95
PERCAPUT NET	-1.831	-1.686	-1-576	285	2-716	-3-124	-2-108	-2-177	-4-139	5.183	-5-328	-5-62
DILCRGPS												
GRUSS PRODUC	740	948	.692	-1.306	-2.095	646	742	468	1-133	4-793	-10.077	4. 143
NET PRODUCTI	-1.367	-1.425	-423	-2-147	-2.832	-1.716	415	-1-056	-267	5.612	-9.882	4.149
P.CAPUT GROS	-3-670	-3.732	-2.376	-4-204	-4.849	-3.681	-3-740	-3.482	-2.035	1-700	-12-825	1.065
PERCAPUT NET	-4.277	-4-193	-2.644	-5-020	~5.553	-4.697	-3-655	-4-055	-2.827	2-469	-12-726	1.01
LIVESTUCK PRODUCTS												
GROSS PRODUC	3.121	1.677	3-376	3.344	1-485	4.202	2-7GL	3.797	3.666	3-568	2.289	1.67
NET PRODUCTI	3-101	1-677	3-347	3-323	1-491	4-163	2-684	3.766	3-431	3-512	2.295	1-103
P.CAPUT GROS	-078	-1-181	-227	-308	-1.375	1.022	426	-654	-529	414	824	-2.020
PERCAPUT NET SEAT INDIGENOUS. TOTAL	.059	-1-178	-196	-289	-1.366	.979	439	. 622	-5 C2	-377	~-835	-1.58
GROSS PRODUC	2.843	1-419	3.012	3-050		4.109		3-490	2 220	2		
NET PRODUCTI	2-843	1.419	3.012	3-090	1.252 1.252	4-109	2-129 2-129	3-490	3-339	2-417 2-417	1-720	1-11:
P-CAPUT GROS	192	-1.432	123	- 062	-1.595	-938	976	- 355	.219	702	-1-415	-1-92
PERCAPUT NET	192	-1-432	123	- 962	-1.595	.938	978	.355	-219	702	-1-415	-1.92
EGETABLES . HEL ONS , TOTAL										2.52		/
GRUSS PRODUC	3.480	3.463	3-716	3.539	4.048	3.029	3-783	3.402	3-139	5.522	2-782	3.35
NET PRODUCTI	3.477	3.457	3.716	3.536	4-044	3-025	3.785	3-401	3.139	5-522	2.790	3.35
P.CAPUT GROS	-426	- 556	-557	-699	1.116	130	-645	-270		2.340	~-254	-12
PERCAPUT NET	-424	- 54 7	-563	-494	1-130	117	-632	-270		2-340	381	-25
RUIT EXCL HELONS. TOTAL		_										
GRUSS PRODUC	1-300	2.385	-780	1-366	2.469	1-083	.536	-699	-077	048	-096	2.55
NET PRODUCTI	1.304	2-386	.792	1-365	2-477	1-100	.527	.705	620ء			2.56
P-CAPUT GROS	-1-688	489	-2-290	-1-613	~.425	-2.012	-2.499	-2.350	-2.973	-3.064	-2-900	55
PERCAPUT NET	-1.681	491	-2-276	-1-606	397	-1.977	-2.510	-2.340	-2-963	~2.959	-3-037	551

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NORTH MESTERN AFRICA

10.743 10.795 7.825 7.836

4-871 4-877 2-136

4.469 2-710 1-766

3.324 3.342 .646

2-662 2-862

-195 -195

5.977 5.946 3.236 3.198

.490 -2.088 -2.116

3-542 3-738

-2-184

-3.375

-4.939

-6-062

-1.856 -2.337 -4-616

3.791 3.747 .867

-825

3.381 3.381 -470 -470

4.719

4-708 1-772 1-760

.382

-2-452 -2-446

5-690 5-480 2-474

3-441

-288 5-496

.596 -.607 -2-449 -3.622

3.322

3.282 .183 .146

3.348 3.348 -209 -209

4.319 4.317 1.149 1.151

-304 -357

-Z-744 -Z-694

APPENDIX II

P.CAPUT GROS

PERCAPUT NET

GRDSS PRODUC NET PRODUCTI

P. CAPUT GROS

PERCAPUT NET

NET PRODUCTI P-CAPUT GROS PERCAPUT NET

GROSS PRUDUCTS

NET PRODUCTI P.CAPUT GROS PERCAPUT NET

MEAT INDIGENOUS. TOTAL GROSS PRODUC NET PRODUCTI

VEGETABLES+MEL ONS.TOTAL GROSS PRODUC

FRUIT EXCL MELONS, TOTAL-GAOSS PRODUC NET PRODUCTI P.CAPUT GROS PERCAPUT NET

P.CAPUT GRGS PERCAPUT NET

NET PRODUCTI

P.CAPUT GROS PERCAPUT NET

GROSS PRODUC

PULSES

388

PAGE

3.520

21-970

40-217

18-082

35.300

16.032 4.073 12.163

2-828

--357

2-852 2-852

--374 --374

-806

-2-307

1-341 -1-439 -1-791

8.221

4.390

111-314

105-188

63-856

56-293 31-029

51.238

--146 -3-147 -3-218

-- \$80 -4.027 -4.027

7-617 4-321 4-263

-3-408 -3-243 -6-442 -6-241

-40-529

-50-453 -42-546

-41.134 -55.377 -42.829

-56-678

3-984

-816 -774

4-727

1.534

5-137

5-164 1-961 1-961

-1-019

-.949 -4.01L

8.450 3.905 5.271

7.826

10-049

6-834

-12.533 -15.615 -15.165 -18.175

4.322 4.375 1.065 1.109

5-091 5-091

1- 64 L 1- 64 L

4-106

4-131

4-219 4-255

1.006

Page 36

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C CHMOD I TY		69/84	69/76	17/84	71/80	71/75	76/80	80/84	74/84	30/61	81/82	82/83	83/8
PCPULATION													
	1000	2.898	2.661	3.133	2.825	2-644	3.026	3.189	3.050	3-144	3-187	3.206	3-21
FGGC		2 0/3					3 400						
GRUSS PRODUC		2-047	3.080	2-549	1-659	1.518	3- 308	1.132	1-142		11.348	-3.467	4.25
HET PHOODETE		1.783	2-747	2.585	1.511	1.282	3-257	1.409		-10.809	11.508	-1-720	5.13
P.CAPUT GROS		827	÷40 B	565	946	-1:097	- 273	-1-953		-11-104	7.893	-6-455	1.00
PEKCAPUT NET NCN FUUD		-1.083	-082	531	-1-278	-1.329	.224	-1.725	-1-433	-13-534	8.065	-4.965	1.86
		2 424	3 464			3 304	0.73	4 774	2,443	2 644	4 337	3 013	
GRUSS PRODUC		2-33d 2-32l	3-656	4-966	1.212	3.204	-073	4-116	2.662	3.566	6.227	3-818	5-27
NET PRODUCTI P.CAPUT GRGS		534	3.284	4.994	1-198.	2.072	-2.858	1.551	2.829 354	3-560	6-153	3.833	5.20
			- 575	1.834	-1.591					-623	3-107	-660	1.80
PERCAPUT NET		561	-627	1.786	-1.566	532	-2.979	1.541	219	-624	2.501	-615	2. 42
AGRICULTURE GRUSS PRUDUC		2.051					3.261	1.184	1.756	-6.776	11-272	-3-362	4 - 26
		1.192	3.089	2-583	1-853	1.540	3.202	1.464	1.593	-10.567	11-421	-1.829	5.13
MET PRODUCTI		023	2.755	2.625	1.505	1.291 -1.077		-1.943		-10-567	7.830	-6.368	1.02
P.CAPUT GROS PERCAPUT NEI		-1.075	.415 .091	531	95 C	-1-318	-172	-1.676		-13-369	7.969	-4-883	1.85
CROPS		-1.075	.091	493	-1.283	-1-310	-112	-1.010	-1.413	-13-369	1.707	-4-003	1.07
GROSS PRUDUC		-978	2.570	2.069	-569	-649	2-426	.331	- 413	-17-039	26-471	-7.529	4. 22
NET PRODUCTI		.387	2.404	2.009	167	-113	2.289	.721		-21-688	23.146	-5-730	5.82
P.CAPUT GROS		-1.467	.300	-1-033	-2.194	-1.943	579			-19-579	16.762	-10-408	- 57
PERCAPUT NET		-2-440	24 9	-1-027	-2.910	-2-465	716	-2.395	-3.015		19.327	-8-467	2.53
CEREALS		-2-440	24 9	-1-027	-2.910	-2.703	/ 1 6	-2.317	-3.013	-242007		-0-001	2.,,,
GRUSS PRODUC		-1-095	2.308	.825	-1-169	-2.635	-847	-4-106	_1 603	-33.130	44-131	-23-328	4.38
NET PRODUCTI		-3-571	1-180	059		-4.389	.345	-5-056		-54-003		-28-226	11.47
P. CAPUT GROS		-3-880	345	-2-240	-3-882	-5-144	-2.117	-7-066		-35-152		-25-713	1.15
PERSAPUT NET		-6-284	-1-445	-3-089	-6-086	-6.856	-2-542	-7.990		-55-384		-30-439	8-02
ROOTS AND TUBERS		-00204	- 20 447	-3000	-4.000	-0.050	20012	10770		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		202.32	
GROSS PRODUC		6-899	3-974	6.828	8.364	6-727	15.852	5.965	7-721	-16-562	40-249	-10-595	14. C3
NET PRODUCTI		6.978	4.173	7.164	0.264	7-215	16.937	6.637		-19-770		-11-936	14.67
P.CAPUT GROS		3-889	1-299	3.580	5.365	3.975	12-403	2.705	4-526	-19-148		-13-359	10-34
PERCAPUT NET		3-968	1-451	3-917	5.311	4-407	13.558	3.34L		-22-329		-14-611	13.01
SUGAR CROPS		3.700	. 4. 4.7.1	30 711	2011	74 101	10100	20216	10000				
GROSS PRODUC		6.543	10.743	5-690	6.009	4-303	3.674	5.455	4.544	3861	6.103	4-605	7.39
NET PRODUCTI		6.788	10.795	5.480	4.559		3.888	5-776	4. 731	2.967	8.221	3-520	8-45
B CAMIT COOL		3 542	7 025	2 474	3.088	1.491	-665	2 230	1-484		3-277	1-587	3-50

1-491

11-230

8.049

--214 -1.810 -2.770

3-302 3-341 -641 -678

2.562 2.562 -.078 -.078

8-223 6-204 5-441 5-414

-- 256

-2.796 -2.822

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-1.006

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-6-098

4.074 4.013 1.215

1-155

3.254

3-256 -417 -417

4-941 4-929 2-659 2-045

- 066

-2.666 -2.685

5.455 5.776 2.230

2.343

13-641

22-699 10-135 19-019

-2-009

-1..662 -5-036 -4-770

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2-496 2-496 --674

4-34l 4-352 1-126 1-120

-093

-053

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1-484

-5-604

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3.897

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3-644

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3.883

3.682

-810

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3-888

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-6.446 -5.591 -9.176

7.575

5.918 4.432 2.861

4.814

4.672 1.733 1.597

4.530 4.536 1.462 1.462

3-257 3-240 -215 -216

2.330 2.430 -.666 -.565

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PAGE

COHHODITY	69/84	64/16	11/84	31/4C	117,15	16/80	80/84	74/84	807 ET	81/82	82/83	83/8
PCPULATION												
TOTAL 1000	. 3-141	3.031	3.185	3-148	3.031	3.245	3-148	3-195	3-168	3-140	3.135	3-15
FCUD												5-17
GROSS PRODUC	1-476	-973	2-242	2-381	1-731	3-131	-818	2-271	3 - 4 44	3-313	-6.938	6-80
NET PRUDUCTI	1.964	. 995	2.213	2.362	1.711	3.673	-8G2	2-236	391 ـ ذ	3-560	-7.417	7.22
P.CAPUT GRGS	-1.129	~1.596	912	742	-1-261	108	-2-259	~- 895	-257	-184	-9.783	3-54
PERCAPUT NET	-1-141	-1.978	941	702	-1.283	165	-2.274	929	226	- 400	-10-220	3.53
NCN FLOD												
GROSS PRODUC	-051	2-233	-2-330	.562	1.738	-2.912	-5-623	909	14-215	-13.869	2-448	-26-90
NET PROJUCTI	-051	2-233	-2-330	-562	1.738	-2.912	-5.623	509	14-215	-13.869		-20.90
P.CAPUT GROS	-2.985	74 8	-5-329	-2-497	-1-208	-5.926	-8-501	-3-974	10-678	-16-534	656	-23.25
PERCAPUT NET	-2-985	14 6	-5-329	-2.447	-1.208	-5.926	-8-5CL	-3-974	10-678	-16.534	656	-23.25
AGRICULTURE												
GRGSS PRODUC	1.925	1.008	2-124	2-329	1.733	2.953	-664	2-189	3-713	2-834	-6-716	6. C7
NET PRODUCTI	1-908	1.031	2.086	2.305	1-713	2-860	-639	2-148 976		3-029	-7.168	2.83
P.CAPUT GROS PERCAPUT NET	-1-179	-1.964	-1-028	794	-1.261	285	-2-468	-1-014	-536 -517	297	-9-556 -9-987	
CROPS	-1-195	-1.541	-1.064	816	-1-280	352	-2.433	-1-014	-214	113	-9.987	. 3.10
GROSS PRUDUC	1.332	1-052	1-283	1.748	1.993	1-971	-=072	1.247	3-074	2-030	-9-340	8.66
NET PRODUCTI	1-274	1.086	1-181	1.682	1.985	1.817	154	1-136	3.000	2.262	-10-103	9.29
P. CAPUT GRUS	-1-754	-1-921	-1-843	-1-356	-1-009	-1.235	-3-121	-1-888	058	-1-075		5.34
PERCAPUT NET	-1-809	-1.687	-1.941	-1.426	-1-017	-1-386	-3-200	-1-595	153		-12-839	5.96
CEREALS						14300	302.00				122037	,,,,
GROSS PRODUC	1-331	1.013	036	2.562	2-608	3.254	-2-940	-747	4-156	-1-807	-16-816	11.98
NET PRODUCTI	1.063	. 903	558	2-404	2.579	2-940	-3-529	. 328	4-269		-18-633	13-29
P.CAPUT GROS	-1-754	-1-957	-3.119	566	411	-010	-5.9GL	-2.371	-967		-19-338	8-55
PERCAPUT NET	-2-014	-2-065	-3.626	718	432	284	-6-475	-2.779	1-037		-21-081	9.78
RCOTS AND TUBERS	2-11-	20002	31020		,							
GROSS PRODUC	1-387	1.606	1-337	1-530	2.333	1-613	-696	1-185	1-134	5-383	-10-822	12-36
NET PRODUCTI	. 1-429	1-842	1.322	1 523	2-472	1-549	-680	1-137	-683	6-371	-12.391	13.98
P.CAPUT GROS	-1-701	-1.383	-1-790	~L.568	679	-1.578	-2-360	-1-946	-1-977	2-162	-13.532	8.92
PERCAPUT NET	-1-660	-1-153	-1.806	-1-575	542	-1-647	-2-388	-1-995	-2-214	3-132	-15-041	10.49
SUGAR CROPS			7.	٠.								
GROSS PRODUC	17-943	13-866	15-715	21-653	16-290	20.941	5-955	18-901	9 - 2 93	18-282		-18.55
NET PRODUCTI	17.649	13-632	15-482	21-317	16-484	20-972	5-400	18_570	9 - 3 17	17.892		-20-48
P.CAPUT GROS	14-441	10.701	12-182	16-141	13.354	17-121	2-786	15-263	5.209	14-850		-20-80
PERCAPUT NET	14-162	10.198	11-927	17.926	13-260	17.316	2.085	15-051	5-455	14-584	7-212	-22-88
PULSES				_								
GROSS PRODUC	1.747	- 295	1-124	5-907	11-522	1-110	-1-074	1.455	-555	3-458		3-34
NET PRODUCTI	1.895	- 225	1.103	6-726	12.923	1-124	-1.341	1.534	150	4-305	-10-543	3.90
P.CAPUT GROS	-1-350	-2.655	-1-979	2-665	8.231	-2-018	-4-113	-1-680	-2.572		-11-997	- 33
PERCAPUT NET	-1.209	-2-711	-2.034	3.482	9.614	-2.052	-4.432	-1-616	-3.264	1-012	-13.422	78
111.54.585												
JILCKOPS GROSS PRODUC	898	3 74 7	1 470	-1.340	- > 501					e ese	15 000	
NET PRODUCTI	-1.271	-2.767 -3.200	1-479	-1.268	-3-501	643	218	.138	7-610		-15-828	9-790
P. CAPUT CROS	-3-915	-5.623	1.377	~1-805 -4-280	-4.155	-1.545 -3.760	-099	151	7-933		-15-641	9.718
PERCAPUT NET	-4-279	-6.044	-1.757	-4.798	-6.342 -6.975	-4-640	-3-258 -2-969	-2.962 -3.247	4.218 4.530		-18-357 -18-294	6-469
IVESTOCK PRODUCTS	7-217	-0.044	-1.754	-4.770	-0.713	-4-010	-2.909	-3-271	4.530	3.009	-10-277	0.712
GRGSS PRODUC	4-222	. 798	5-117	4-731	-554	6.870	3-129	5.846	6-011	5-589	1.983	-1.522
NET PRODUCTI	4.212	-782	5.101		545	6-875	3.109	5.838	5-974	5-502	1-991	-1-473
P.CAPUT GROS	1-048	-2-167	1.873	1.536	-2-407	3.509	020	2-569	2.732	2-369	-1-119	-4.541
PERCAPUT NET	1-037	~2.163	1-855	1.533	-2.411	3.513	037	2.558	2.650	2-308	-1-112	-4-482
TEAT INDIGENOUS. TOTAL		22 20 3	,	2000	4.421	34 343		2.330	21070	22 300	-14114	70742
GROSS PRODUC	3.913	-612	4-507	4-619	-490	6.748	2-305	5-407	5-068	3-599	1.780	-1.488
NET PRODUCTI	3.913	-612	4.507	4-619	-490	6-748	2.305	5-407	5.068	3-599	1-780	-1-488
P.CAPUT GROS	-749	-2-347	1-282	1.427	-2-469	3-392	816	2-143	1.820	.441	-1-299	-4.494
PERCAPUT NET	-749	-2.347	1.282	1.427	-2.469	3-392	616	2-143	1.820	-441	-1-299	-4.494
EGE TABLES+NEL ONS, TO TAL										•		
GROSS PRODUC	3-876 3-876 -714 -714	2-663	4.889	3.883	3.013	4.779	4.869	4.385	. 2.755	7.067	4-437	4.391
NET PRODUCTI	3.876	2.663	4.889	3. 883	3-013	4.779	4-869	4.385	2-755	7-067	4.437	4.391
P_CAPUI GROS	.714	368	1-654.	.721	011	1-494	1-666	1-158	429	3.834	1-237	1.213
		368	1-654	-721	011	1-494	1-666	1-158	429	3-834	1-237	1.213
RULT EXCL MELONS, TOTAL												
GRUSS PRODUC	1-209	3-660	-412	1.432	4-574	606	-613	018	765	1-306	-2-487	5.818
NET PRODUCTI	1-209	3-660	-412	1-432	4.574	606	-613	018	765	1.306	~2.487	5-818
P-CAPUT GROS	1-209 -1-874 -1-874		-2.688	-1-666	1.509	-3.716		-3-117	-3-767	-1.925	-5.458	2-759
PERCAPUT NET	-1.874	- 609	-2-688	-1-666	1.509	-3-716	-2-446	-3-117	-3.7CI	-1.925	-5-458	2.759

Source: ESS Computer Printout for Food and Agricultural Products, FAO, Rome

Page 38. CENTRAL AFRICA

rage Jo	CENTRA	L AFRICA									PAGE	392
APPENDIX-II	,											
CCHHUDITY	69/84		77/84	71/80	71/75	76/80			, &C/E;		82/83	83/84
PCPULAT IUN												
TOTAL 1000	2.602	2.499	2-747	2.668	2.534	2.781	2.124	2.745	2.735	2-726	2.717	2.730
CRUSS PRIMIT	1.621	2.434	1.884	1.697	2.965	- 758	1-633	1-532	2.872	2.874	- 5 49	1.127
NET PRODUCTI P.CAPUT GROS	1.803	2.386	1.965	1-664 947	2.903	.175 -1.969	1-840	1-537	2-843 -130	2-884 -151	-616 -2-072	1.136 -1.554
PERCAPUT NET	1.803 820 837	110	820	978	.359	-1.952	854	-1-175	-057	-162	-2-039	-1.553
							- 310					
GROSS PRODUC NET PRODUCTI	-3-533 -3-333 -5-839 -5-844	-2.563 -2.563	-1.037 -1.037	-5-036 -5-036	-1-340 -1-340	-1-045 -1-048	716 716	-3.378 -3.378	-9-766 -9-654		-19-152 -19-152	15.365 15.365
P. CAPUT GROS	-5-839	-4.950	-3-683	-7.504	-3-607	-3-710	-3-329	-5-952	-12-135	14.323	-21.257	12.498
PERCAPUT NET AGRICULTURE	-5.844	-4.950	-3.703	-7-504	-3.807	-3.710	-3-377	-5.963	-12-135	14.323	-21-257	12.222
GROSS PRODUC	1.575 1.551 -1.059	2-167	1-778	1-357	2.716	.685	1-744	1.316	2:402	3.364	163	1-567
NET PRODUCTI	1-551	2-114	1-793	1-310	2-652	.701	1-745	1.315	2-354	3.375	154	1.585
P.CAPUT GROS PERCAPUI NET	-1-059 -1-082	324 375	945 428	-1.275 -1.314	-178 -116	-2.036 -2.022	456 952	-1.390 -1.391	340 373	-627 -649	-2-798 -2-799	-1.136 -1.114
CROPS	-12002	3/3	720	-1.514				10371		,		
GROSS PRODUC	1.654	2-343	1.909	1.378	2-956	- 598	1-957	1-358	2-718	3-646	054	1.733 1.760
P.CAPUT GRUS	1-629 982	Z.285	1-932 814	1-333 -1-257	2-683 -411	.613 -2.125	1-968 745	1.360 -1.369	2-660 022	3.686	036 -2.694	564
PERCAPUT NET	-1-007	269	794	-1-301	.338	-2-109	736	-1-348	066	.936	-2-664	542
CEREALS						-833	1-751	000	-17-823	23.387	-2-240	.157
GROSS PRUDUC . NET PRODUCTI	1-002 -901	2-237 2-122	-631 -633	1-854 1-815	4-818 4-744	1.234	1.663		-21-123	26.927	-2-419	115
P.CAPUT GROS	-1.620	255	-2.069	798	2-200	-1.894	963	-2.589	-20.114	20-218	-4.870	-2.48G
PERCAPUT NET REÖTS AND TUBERS	-1-716	365	-2.058	626	2.159	-1-503	-1.043	-2.67C	-23-341	23.664	-4-997	-2.795
GROSS PRODUC	2-562	2.969	3.116	2-204	3.765	1-221	3.097	2-459	6-581	2.862	1.824	1.548
NET' PRODUCTI	2-554	2_897	3.155	2.185	3.699	1-242	3.137	2.466	6-648	2.884	1-880	1.969
P.CAPUT GROS PERCAPUT NET	098 106	-460 -390	•359 •395	451 469	1-202 1-136	-1.517 -1.496	-364 -357	278 251	3.748 3.796	-142 -163	874 822	759 747
SUGAR CROPS		-310										
GROSS PRODUC	5-169	3-349	6-039	5-886	6.279	4-222	1-598 1-415	5-707	22.753	-16-574 -18-112	5.500 5.571	6.762 6.930
NET PRODUCTI P.CAPUT GROS	2-429	3-122 -017	5- 847 3- 260	5.569 3.102	5.986 3.568	3-504 1-410	-1-119	5.458 2.893	19.025	-19.0B1	2.829	4.583
PERCAPUT NET	5-169 4-910 2-429 2-189	-660	3.037	2.805	3.436	. 568	-1-116	2.628	21-061	-19-837	3-094	3.999
PIR SES		3.244	-104	1.604	3-513	-1.519	1.124	-411	1-589	2.762	-800	-1.262
NET PRODUCTI	1-462 1-400 -1-185 -1-214	3.307	046	1-745	3.543	-1-849	1.132	-287	1-625	2.829	-836	-1.407
P-CAPUT GROS	-1-185	-704	-2-613	844	-891	-4-244	-1.670	-2-283	774		-2-351 -1-749	~3.553 -4.421
PERCAPUT NET	~1.214	. 769	-2.765	855	-906	-4.526	-1-594	-2-371	861		-1.149	-4.421
BILCAGPS												
GROSS PRODUC	721	-217	935	780	.659	-2.770 -3.179	-1.370 -1.674	-1.194 -1.513	2.167 2.319	1-850 1-471	-4-609 -5-121	-4-546 -4-911
HET PRODUCTI . P.CAPUT GRGS	-1.068	093 -2.237	-1-144 -3-586	-1-226 -3.364	.266 -1.832	-5.354	-4.0C8	-3.834	660	919	-7-099	-7-150
PERCAPUT NET	721 -1.068 -3.300 -3.633	-2-527	-3.795	-3-785	-2-221	-5.791	-4-297	-4.143	523	-1.205	-7-527	-7 . 578
LIVESTOCK PRODUCTS GROSS PRODUC		-876	.765	1-211	.934	1-354	.093	-988	-019	1-164	-1-022	.251
	-984 -982	-886	.753	1.214	-975	1.344	-083	.975	.084	1-136	-1-059	-233
- P.CAPUT GROS	-1.635 -1.638	-1-582	-1-925	-1-421	-1.557	-1.381	-2-561	-1.709	-2.666	-1.490	-3.693	-2.344 -2.461
PERCAPUT NET' MEAT INDIGENOUS, TOTAL	-1.638	-1.573	-1-942	-1.414	-1-521	-1.396	-2.576	-1.723	-2-637	-1.502	-3.673	-2.401
GROSS PRODUC	.895 .895	.972	.602	1.136	1 187	1.045	025	.793	-274	1.130	-1-481	-151
NET PRODUCTA	-895	.972	. 602	1-136	1.187 -1.315	1-045	025 -2-6 E2	.793 -1.897	-274 -2-434	1.130 -1.519	-1-481 -4-076	-151 -2.555
P.CAPUT GROS PERCAPUT NET	-1.721 -1.721	-1-494 -1-494	-2-088 -2-088	-1-485 -1-485	-1.315	-1-685	-2.682	-1-897	-2.436	-1-519	-4-076	-2-559
VECETARIES + HELDNS - TOTAL										2 200		
GROSS PRODUC NET PRODUCTI	2.561 2.561 099 099	4-027 4-027	2.090 2.090	2-610 2-610	4.550 4.550	059 059	2-265 2-265	1.813 1.813	3-389 3-389	2 789 2 789	1-506 1-506	1-51G 1-51G
P.CAPUT GROS	099	1.468	638	061	1-953	-2.769	442	505	-664	.096	-1-234	-1.152
PERCAPUT NET	099	1-488	638	061	1.953	-2-769	442	905	-664	-096	-1-234	-1-152
FRUIT EXCL MELGNS.TGTA	L 1-245	2-736	-409	4-155	2 349	. 353	-485	-464	-959	.436	-241	-453
MET DECOMETS	1 244	2.735	-498	1-154	2.349	-351	-484	.463	-969	-427	-241	-453 -2 212
P.CAPUT GROS PERCAPUT NET	-1.381 -1.380	-225	-2-279 -2-275	-1-673 -1-474	186 176	-2-362 -2-356	-2-1 E1 -2-1 87	-2-221 -2-220	-1-715 -1-727	-2-236 -2-237	-2-415 -2-416	-2-212 -2-225
- PERGAPUT HET	-62300	-2-6	44413	20717								

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-555 -555

-2.721

-746

-2.442 -2.257

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EASTERN AFRICA

APPENDIX II 17/84 71/80 71/75 COMMUDITY 65/84 69/16 76/80 8C/84 74/84 8C/61 61/62 82/83 83/84 TOTAL FGCD 1000 3-117 3-144 2.988 3.265 2.983 3.247 3-273 3.235 3.261 3-265 3-274 3. 264 1-947 GRUSS PRUDUC NET PRUDUCTI 2-229 2-191 1-276 -851 -964 1.316 2.174 1.859 1.737 --336 -2.207 1.926 1.315 -1.888 -1.889 2.142 1.813 1-731 3-567 2-444 --801 --060 -2-214 -1-166 -.736 -.175 -- 914 -1-092 -1-136 -1.909 -2.346 -1-452 -1-458 -150 P. CAPUT GRUS PERCAPUT NET -.803 -5-329 -3-226 ACK FLUC GROSS PRUDUC NET PRUDUCTI .515 1.267 -1.902 -1.923 -959 .615 -2.332 -2.303 1.603 .648 -2.397 .716 2-166 1-259 -1-898 -1-917 -2-575 -5-649 -878 -2-249 4-861 5-014 P. CAPUT GROS -2.118 -2.119 -1.587 -1-615 -1-078 -2-393 -2-206 -5-655 -2-367 1-621 1.595 AGRICUL TURE 2.655 GRUSS PRODUCTI 1-818 1.356 1.574 1-278 1.677 .279 2.012 1 - 708 1-018 2.257 1.664 -1.240 -1.278 1.205 ~1.908 ~1.976 2.747 2-253 --981 --984 1.794 1.354 1-939 1.123 -2.163 1.667 -542 -2-897 -1-270 -4-464 1.973 P.CAPUT GRUS PERCAPUT NET -- 948 -1.849 -1-519 -1-109 -1-144 -2-0A3 -2-642 -4-425 CROPS
GRUSS PRUDUC 1.027 1.071 -055 1.376 1-644 2-054 1.698 3.258 1.458 -3.C17 1.832 -1-243 1.603 -1.455 -1.494 3-473 -043 -207 --920 -4-380 -4-034 1.774 1.641 -952 -2-106 .210 -3.060 1-349 1-409 NET PRODUCTI 2-605 1.017 P.CAPUT GRGS PERCAPUT NET -- 907 -2-169 -6.123 -2.225 -1-827 -2-176 -1.304 -1.304 -2-962 -1-812 -6-126 CEREALS
GROSS PRODUC .171 -.332 -2.982 -2.351 -2.287 -5.484 -5.385 -673 -475 -2.482 -2.675 1.455 -.372 1.851 5.216 2.942 2-545 1-990 -4.737 NET PRODUCTI P.CAPUI GROS 2.355 -.601 -3.523 1-761 1.576 6-135 1-849 2-764 2-881 -14.177 -16.674 -1-636 -.428 -16-907 PERCAPUT NET -1.827 -3-745 -1.316 -1.361 -3.466 --309 -7-331 RGOTS AND TUBERS GROSS PRODUC 3-028 3.341 1.922 4.008 4-220 3-293 --054 2-620 3.237 -1-232 NET-PRODUCTI P.CAPUT GROS PERCAPUT NET -1.268 -4.365 -4.449 --360 -3-510 -3-441 3.409 1.929 4.344 3.413 --160 -3-259 2-649 4-080 -4-412 -4-706 ~- ill -863 -.568 --066 .408 -1-300 .932 1.310 .155 -3.323 SUGAR CROPS GROSS PRODUC -642 -767 -2-263 1.498 1.440 -1.709 1.256 1.359 -1.819 .817 .630 -2.384 2-418 2-242 --837 2-124 2-115 -1-085 -1-088 9.4C7 8.957 5.949 5.330 2.678 1 - 587 9-004 -1.335 -7.968 -10.969 NET PRODUCTI P.CAPUT GRUS 2-341 1.631 -1-164 -4-192 5-615 PERCAPUT NET -2.153 -10-956 -.778 PULSES GROSS PRODUC NET PRODUCTI P.CAPUT GROS -400 -380 -2.759 -2.878 1.339 . 208 1.032 1-240 -1.365 .750 1-828 4 - 864 6-044 --207 -10-634 4-736 6.621 -1-494 -4-237 -4-337 1.094 1-401 . 832 1.303 .835 -2-146 -2-126 -1.843 -1.745 -2-406 -2-330 1.727 -13-652 -2.137 -1.358 -3-305 -1-692 -2.074 UILCROPS GROSS PRUDUC
NET PRODUCT!
P-CAPUT CROS
PERCAPUT NET
LIVESTOCK PRODUCTS
GROSS PRODUC
NET PRODUCT! -.672 -1.237 -3.705 -4.241 -.565 -.212 -3.760 -3.337 -3.100 6.212 7.491 2.743 1-130 --012 -1-913 -2-820 -1-158 10-304 14-005 -6-825 -1.692 -4.250 -4.753 --107 -2-173 -8-357 -5.383 -4.675 -906 -1.832 -3-177 -3-227 -4-880 -5-768 -4-369 -5-000 6-853 10-631 -6.134 -9-A13 -2.C28 -7.671 -11.058 4.138 -8.637 2-205 2-201 1.913 2.068 2.300 2.300 1-754 1-767 3.062 3.036 4-122 4-104 2-347 2-341 1.220 3.721 2-356 2-340 1-717 3-667 P.CAPUT GROS -.910 -.915 -1.044 -1.050 -1-157 -1-174 --793 --794 -1-215 -1-224 -1-439 -1-435 --205 --860 -1.996 .815 .783 -447 PERCAPUT GRUS
PERCAPUT NET
MEAT INDIGENOUS, TOTAL
GROSS PRODUC
NET PRODUCTI -.900 2-071 3.471 3.471 1-575 2-413 2-197 2.161 1.651 1.691 2-306 1-877 -676 2 -697 P.CAPUT GROS PERCAPUT NET -1-303 -1-303 -1.526 -1.526 -- 79C -- 790 -1.377 -1.377 -1-326 -1-326 --832 --632 -1.006 -1.006 -2-569 -2-569 -214 -214 --554 --554 -1-115 -1-041 -1-041 VEGETABLESONEL ONS . TOTAL GROSS PRODUCTI 2.287 2.429 2.429 -.535 -.539 1-840 1-840 -1-390 -1-390 1.866 1.887 1.887 -1.407 -1.467 2-053 2-053 2-416 2-416 2-011 2.069 2-162 2-162 1.563 -1.747 -1.747 2.069 -.874 1.866 P.CAPUT GROS PERCAPUT NET --669 -1-199 -1 -4 G6 -1 -4 G6 -1-142 -1-142 -1.443 -.830 -1-039

-.874

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2-544 2-530 --678 --719

-1-039

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-.936 -.946

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-2-255

-857 -867

-2.352 -2.164

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2.767

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FRUIT EXCL MELONS, TOTAL GROSS PRODUC NET PRODUCTI

P.CAPUT GROS PERCAPUT NET

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APPENDIX II SUUTHERN AFFICA DEVPING

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CCHMG0 TY		69/84	65/76	17/84	7178C	71/75	76/80	86/84	74/84	8C/E1	81/82	82/63	83/8
PCPUL AT IUN							,						
TOTAL	1000	2-810	2.660	2.905	2.797	2.103	2.689	2-916	2-883	2.869	2-901	2.935	2.53
GEOSS PRODUC		100.	2.195	1.336	099	-652	.598	- 506	- 504	5-360	- 229	-3-916	2.59
NET PRODUCTI		-439	2-056	1.178	512	. 331	.049	-646	. 237	5.118	-360	-4-077	3.39
P. CAPUT GACS		-1.851	412	-1.526	-2.817	-1.995	-2.224	-2-343	-2.312	2-356	-2.600	-6-650	. 65
PERCAPUT NET		-2-112	611	-1-617	-3.215	-2.311	-2.758	-2.205	-2.571	2.746	-2-440	-6.826	. 45
NCN FCOD													
GRUSS PRUDUC		3.748	3 - 50 7	1-116	5.708	6.777	5.808	-2-315	2.714	-3.652	-5.774	.023	
NET PRODUCTI		3.748	3.507	1.116	5-708	6.177	5.808	-2-315	2-714	-3-652	-5.774	-623	
P. CAPUT GRGS		-914	. 80 7	-1.731	2-822	3.955	2.840	-5-050		-6-332	-8-416	-2-193	-2-8
PERCAPUT NET		-914	.807	-1-731	2-822	3-955	2- 840	-5-058	161	-6.332	-8-416	-2-193	-2.8
GROSS PRODUC		1.041	2.250	1.319	.171	-901	-675	-341	-614	4.258	113	-3-668	2. 8
NET PRODUCTI		. 793	2.119	1.170	210	-603	-371	.460	.367	5.104	-010	-3.817	3.1
P. CAPUT GROS		-1.720	419	-1.541	-2.555	-1-753	-1.954	-2.5GZ	-2-205	1-844	-2-917	-6.423	C
PERCAPUT NET		-1-962	- 54 8	-1-686	-2.925	-2-047	-2.447	-2.367	-2-445	2.156	-5-818	-6-551	. 2
ROPS					,								
GROSS PRUDUC		3.034	3.989	1.919	3-137	3-543	2.198	. osa	2-107	5-332	-2.661	657	7
NET PRODUCTE		2.452	3.467	1-617	2.262	2.621	-974	_370	1-621	6-213	-1-998	508	3
P.CAPUT GROS		-217	1-275	959	.331	-820	674	-2.118	755	2-3 ti	-4-B19	-3.481	-3.6
PERCAPUT NET		348	- 16 8	-1-255	519	077	-1.861	-2.475	-1.229	3-261	-4.760	-3-343	-3.2
EREALS		3 . 10			,		-3 454	-13-158	-6-553	-4.822	-29.979	-2.695	-7-7
GROSS PRUDUC		-2-639 -4-186	1.379	-9.745	839 -2.081	-1-567 -2-843	-2.456 -3.843	-16-406	-8-842	-6.555	-37-439	-3-636	-6-6
NET PRODUCTI P.CAPUI GRGS		-5.303	.656 -1.277	-12.612 -12.294	-3.544	-4-172	-5-196	-15.666	-9-172	-7-469	-31-981	-5-353	-10.4
PERCAPUT NET		-6.802		-15.075	-4.745	-5.386	-6-550	-16-761	-11.398	-9.176	-39-242	-6-161	-9-
COTS AND TUBERS		-0.002		-13.013	4.113	32300	0.770						
GROSS PRODUC		1-738	3.696	070	2-593	2-911	1-622	-1-128	.545	-5-516			
MET PRODUCTI		1.710	3.657	069	2.564	2.927	1-642	-1-142	. 509	-5.563			
P. CAPUT GROS		-1.043	- 971	-2.879	201	-172	-1-212	-3-946	-2-261	-8-1 78	-2.793	-2-862	-2-9
PERCAPUT NET		-1.065	.943	-2-871	231	-196	-1.229	-3.952	-2-293	-8-057	-2-821	-2-903	-3-0
UGAR CROPS				•						14 700			
GROSS PRODUC		6.566	3.657	9-119	6-402	6.115	8-651	4-685	8-117 8-205	16.798 17.390	4-624 4-479	-212	
NET PRODUCTI		6.669 3.654	3.812	9-288	6.499 3.509	6-513 3-307	8-693 5-597	4-814 1.717	5.091	13.517	1.645	-2-831	-2.2
P-CAPUT GRUS PERCAPUT NET		3.754	- 94.8 1-100	6.037 6.205	3-600	3.705	5.638	1-851	5.173	14-150	1-508	-2.627	-2.2
ULSES		3-134	1-100	0-207	32000	3.107	2.030	1-071	500.2				
GROSS PRODUC		2-705	10-084	1-281	2-147	10-594	-13.733	6.551	803	36-7CL	5.839	-5-224	
NET PRODUCTI		3.034	10.914	1-167	2-644	11-386	-14-641	7-115	781	40.312	6.239	-5-559	
P.CAPUT GROS		105	7-196	-1-573	62 G	7740	-16-125	3.566	-3-587	32.979	2.712	-7-921	-2-
PERCAPUT NET		-216	8.040	-1.703	155	8.462	-17-062	4-055	-3.569	364172	3.317	-8-439	-2.6
I LCRCPS													
GROSS PRODUC		6-831	8-232	2.837		6- 590	7.997	020	4.575	1.011	735		
PLCAPUT GROS	_	3.927	5.542	013	4.530	4.377	4.738	-2-629	2-010	-1-410	-2.852	-2.944	-3.0
IVESTOCK PRODUCTS	5												
GRUSS PRODUC		065	1.349	-942	-1.425	415	-041	-524	279	4-441	1-206	-5-655	5.3
NET PRODUCTI P.CAPUT GROS		045 -2.795	1.470	.928	-L-423 -4-107	328 -3-036	-017 -2-761	-510	303 -3.673	4.448 1.450	1.208	-5-725 -8-361	5.3 2.3
PERCAPUT NET		-2-776	-1-179	-1-908 -1-920	-4-106	-2.952	-2.793	-2-325 -2-337	-3.096	1.530	-1.640	-8-412	2.3
EAT INDIGENOUS. I	OTAL	-2.776	-1.1.9	-1-720	-4.100	-2.732	-2.173	-2.331	-3.076	1.735	-1.040	-0.412	
GROSS PRODUC		338	1.751	-968	-2.138	446	452	-517	710	5.341	1.842	-7-421	6-3
NET PRODUCTI		338	1.751	-968	-2.136	446	452	-517	710	5.341	1.842	-7-421	6.3
P.CAPUT GROS		-3-061	905	-1.882	-4- 8CC	~3-066	-3-243	-2-329	-3.491	2.380	-1.043	- 10-044	3.3
PERCAPUT NET		100.6-	905	-1.882	-4.8GG	-3.066	-3-243	-2.329	-3.491	2-3E0	-1-643	-10-044	3.3
EGETABLES + MELONS	TOTAL												
CKO22 PKDDOC		1.945	2-700	-690	2-46C	2.594	1-958	L-165	1-355	-5-143	7.494	-169	
NET PRODUCTI		1-945	2-700	-690	2-460	2-596	1.958	1-165	1.355	-5.163	7-494	-169	-3 4
P.CAPUT GRUS PERCAPUT NET		843 843	- 63 C - 03 Q	-2-160 -2-160	324 324	073	883 883	-1-714 -1-714	-1.493 -1.493	-7-817 -7-811	4-700	-2.856 -2.856	-2.9
RULT EXCL MELGNS.	TOTAL	073	- 050	-2-100	324	073	003	-1.114	-1.473	-12011	7-100	-2-076	-2.7
												_	
		2.289	2.097	2.915	1.358	1.694	1.265	3.638	2.362	3.733	9.307	-569	
GROSS PRODUC NET PRODUCTI		2-289 2-289	2.997 2.597	2.915 2.915	1.358 1-358	1.694	1-265 1-265	3.636 3.638	2.362 2.362	3.733 3.733	9.307 9.307	-569 -569	
GROSS PRODUC													-2.7

Source: ESS Computer Printout for Food and Agricultural Products, FAO, Rome

AFRICAN EXPORTS OF AGRICULTURAL FISH AND FORESTRY PRODUCTS

1978 - 1983

(US\$ '000)

									(US	000)	
COUNTRY	197	8	1979	* .*.	198	YEAR O	198	1 .	198	32	19	983
			· · · · · · · · · · · · · · · · · · ·	<u> </u>								
Algeria	148	600	113 4	.50.	120	620	132	590	N. 15 .76	030		1 030
Angola	276	610	244 1	80	189	940	132	000	130	730	9	750
Benin	27	090	35 4	40	48	0.00	35	120	: 24	030	3	32 930
Botswana	41	170	94 8	20	44	710	82	780	82	590	. 9	6 610
Burundi	67	730	103 2	90	63	570	69	860	8	820	7	75 870
Cameroon	714	730	776 6	50	852	080	577	050	498	080	50	3 960
Cape Verde		810	1 2	50	. 3	340	2	390		650		3 770
Central Afric Republic		810	69 7	'8 o	. 84	330	; 70	930	, 74	340	. 8	32 630
Chad	90	940	107 6	10.	104	880	106	20	84	180	10	2 550
Comoros	6	290	· 14 1	80	: 7	280	14	390,	18	420	1	5 250
Congo	56	340	62 1	70	98	390	67	320	. 5	750	5	7 070
Djibouti	,	10	1	80.		130		_	٠.	_		_
Egypt	664	210	610 8	60	681	620	745	560	678	840	68	35 690
Eq. Guinea	38	900	34 7	40	31	730	30	310	2/	770	3	8 530
Ethiopia	293	800	397 6	10	391	290	345	140	369	370	38	80 540
Gabon	122	100	139 6	10,	192	660	150	500	160	700	16	61 630
Gambia	31	590	34 1	80	. 32	750	21	940	1	7 590	2	27 550
Ghana	806	690	795 2	20	841	930	463	750	43	930	. 31	13 370
Guinea	23	210	34 6	60	33	350	27	980	30	540		36 530
Cuin Bissau	9	990	10 2	30	9	810	13	290	12	520	1	12 Ò10
Ivory Coast	2 122	170	2 .182 0	10	2 446	290	2 040	560	1 792	990	1 8	18 830
Kenya	684	550	710 3	90	707	670	. 631	450	598	050	62	9 600
Lesotho	12	800	14 5	90	15	550	14	580	15	200		13 890
Liberia	171	970	209 7	40	249	140	177	820	120	810	1	31 150
Libya		310	2	20		140		140		140		140
Madagascar	343	910	341 0	70	353	550	276	040	27	1 510	30	3 740
Malawi	170	150	208 4	50	256	070	255	400	23	1 200	22	29 460
Mali	112	200	160 1	40	217	700	194	410	159	550	17	78 180
Mauritania	57	700	49 7	60	81	760	150	190	17	1 840	16	53 270
Mauritius	236	610	274 9	80	307	280	206	100	24	7 310	25	52 150
Morocco	534	910	642 6	20 .	756	150	651	040	55	3 130	59	94 130
Mozambique	89	730	154 0	10	136	190	142	840	12	310	10	2 430

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Namibia	108 40	0 116 700	122 000	126 000	124 000	99 000
Niger	56 95	0 61 940	91 060	87 950	69 580	71 890
Nigeria	821 57	0 705 350	771 610	339 360	410 260	466 230
Reunion	102 84	0 124 220	115 610	93 630	89 500	79 850
Rwanda	65 82	0 109 990	64 580	72 280	74 630	97 640
St. Helena	-		. - .	50	50	_
Sao Tome Prn	19 19	0 30 250	18 520	- 11 830	. 12 110	6 920
Senegal	224 30	339 060	218 290	167 740	310 110	322 150
Seychelles	3 15	0 4 570	4 820	3 820	. 3 080	3 160
Sierra Leone	50 11	0 80 050	58 910	- 28 710	35 330	47 500
Somalia	105 95	0 112 630	125 280	152 680	. 220 890	226 880
(South Africa)	1 959 51	0 2 194 250	2 855 330	2 612 510	2 200 030	1 749 160
Sudan	477 72	570 690	553 170	472 740	444 660	610 710
Swaziland	144 97	0 186 570	280 320	269 110	216 950	223 840
Tanzania	400 74	0 411 370	410 220	448 530	334 940	334 960
Togo	97 53	71 100	77 040	66 790	′56 080	45 960
Tunisia	188 29	236 660	167 290	238 140	` 198 940	144 090
Uganda	345 94	9 427 020	346 640	243 070	345 640	351 680
Upper Volta	39 07	66 190	79 590	63 020	47 620	66 670
Western . Sahara	. -	.* _	_		, _	
Zaire	245 71	214 230	252 030	197 430	189 400	189 460
Zambia	15 82		•	8 200	12 070	11 900
Zimbabwe	402 37			625 370	525 850	471 570
Total Africa:	13 890 52	15 106 070	16 138 810	14 158 630	13 096 600	12 788 440

Source: Computer Service Centre, Statistics Division, FAO, Rome

AFRICAN IMPORTS OF AGRICULTURAL FISH AND FORESTRY PRODUCTS 1978 - 1983

				(US\$ 'C	000)
COUNTRY	1978	1979	1980 <u>YEARS</u> 1981	1982	1983
Algeria	1 628 21	1 803 000	2 490 200 2 776 23	2 841 620	2 502 220
Angola	207 2	10 212 880	284 860 269 34	262 610	241 110
Benin	85 6°	96 940	102 650 120 71	125 390	117 560
Botswana	56 94	10 77 370	94 740 98 35	112 720	98 280
Burundi	19 50	27 450	30 370 33 03	30 · 40 740	26 310
Cameroon	118 36	60 146 370	149 690 142 07	70 144 240	162 460
Cape Verde	24 68	24 910	30 440 26 02	25 990	21 610
Central Africa Republic	n 18 2	30 19 970	24 620 33 56	50 27 830	29 260
Chad	13 82	20 12 630	7 120 11 69	20 510	16 440
Comoros	8 94	10 590	11 710 11 26	60 12 600	10 420
Congo	58 25	78 070	84 830 70 16	94 710	83 920
Djibouti	42 37	70 47 440	61 060 48 19	0 60 970	52 170
Egypt	2 419 79	1 919 990	2 804 890 4 277 92	90 3 777 710	4 094 190
Eq. Guinea	3 00	3 860	10 240 16 29	0 12 300	9 590
Ethiopia	70 52	85 940	113 220 102 38	101 620	116 670
Gabon	109 65	104 740	121 510 136 18	137 790	142 170
Gambia	29 64	.0 31 900	41 450 43 80	0 49 110	37 330
Ghana	160 44	0 143 690	150 620 194 04	.0 , 153 580	163 590
Guinea	38 67	0 46 170	79 170 67 22	90 44 310	57 660
Guin Bissau	24 43	0 15 760	12 580 23 44	0 13 080	13 150
Ivory Coast	374 67	0 441 950	580 380 598 96	520 100	548 080
Kenya	165 21	0 139 880	242 840 167 10	166 060	164 780
Lesotho	76 87	93 020	112 430 120 93	0 112 290	79 650
Liberia	92 76	102 590	117 280 121 64	0 111 480	121 300
Libya	856 31	0 974 990	1 400 290 1 686 29	0 1 392 210	1 460 290
Madagascar	82 43	0 125 150	86 490 124 27	0 145 780	95 760
Malawi	27 02	36 700	54 550 52 24	.0 38 450	36 500
Mali	49 11	0 . 46 560	71 120 68 27	0 81 850	81 020
Mauritania	72 38	76 290	89 700 97 77	o 95 0 90	95 920
Mauritius	147 31	0 158 420	187 480 175 74	0 149 820	138 360
Morocco	760 27	931 340	1 085 310 1 228 85	957 040	886 400
Mozambique	75 63	0 92 360	129 150 109 45	0 105 480	103 850

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Namibia	18	900F		20	000F		21	900F	7	24	4001	F	23	350F	10	23	OOOF
Niger	54	800		63	.110		82	740		122	070		80	810		50	070
Nigeria	2 106	600	2	194	770	2	849	860	3	147	680	2	886	050	2	443	290
Reunion	177	570		219	560		247	530		229	500		209	660		208	950
Rwanda	31	920		36	360		45	340		42	560		45	400		42	420
St.Helena		970		1	370		1	410		2	220		•1	210		1	320
Sao Tome Prn	5	430	.*	4	590		6	860		. 5	200		• 5	550		4	920
Senegal	215	640		265	150		293	480		338	310		289	470		312	120
Seychelles	14	140		16	.820		20	650	•	18.	940		21	140		17	220
Sierra Leone	64	080	•	89	720		96	630		92	110	•	. 89	660		83	810
Somalia	87	350		89	890'	,	152	970		208	160		177	930		142	070
(South Africa)	634	040		746	240	1	065	430	1	241	960		966	930 [.]	1	308	690
Sudan	185	850		190	140		403	730		349	940		269	810		22 <u>9</u>	900
Swaziland	25	590		24	640	•	33	760		34	080	,	48	830 -		51	230
Tanzania	107	540	4	77	360	٠.	182	890		145	720		161	330		117	570
Togo	45	710		71	260		92	860		113	980		124	610.		126	130
Tunisia	378	100	· '	520	360		594	320		674	740		520	320		593	300
Uganda	7	360		27	310		48	510		40	710		, 3 <u>5</u>	350		19	240
Upper Volta	67	260		71	020	ı	79	030	,	88	630		75	650		79	470
Western				_	.00		_							000			
Sahara		240			480			920			960			000			140
Zaire	-	890			320 1		202	-		278		-	•	430		162	
Zambia		350	``.	105				660		.102		٠,				-	340
Zimbabwe	26	240	· .	38	050		95	830		87	960		61	490		78	580
Total Africa:	12 425	740	13	203	560	17	655	180	20	447	360	· 1 8	334	250	18	001	320

Source: ESP Division, FAO, Rome

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SELECTED SOCIC-ECCNOMIC INDICATORS OF THE AGRICULTURAL SECTOR

Page 45

				C INDICAT				Α	PPENDI:	x v	,•	
- Self-setti	A V Z G A	G E							1900	1001	GSCWTH 1967-70	
TATRUOS	1967-73	1971-00	1574	1975	1976	1977	197A	1979			1707-70	
стяом	106.6	130.9	130.1	101.5	102.0	101.3	102.4	100.2	99.4		-0.9	-0.0
APRICA	192.4	97.0	191.2	38.3	27.2	94.1	95.2	92.0	92.2		-1.4	-1.2
A4 JEG1 A	85.3	67.1	68.5	16.0	71.6	54.7	57.4	56.3 65.7	62.4		G-6	
KIDIF K	109.1 109.7	101.0	90.8 132.7	57.3 90.3	94.2	83.6 133.5	86.8 102.2	99.4	86.5 77.5	•	-1.1	-0.€
IGROEGE .	68.4 98.7	66.5 58.8	88.1 99.8	70.8 59.7	. 38.3	66.4 98.1	52.4 99.6	41.0 98.5	46.9 98.4		-0.8 C.4	
CAMERCON	103.8	100.9	173.4	105.7	101.0	97.7 47.3	97.0	50.3 42.7	97.9 45.4		-0.5°	
CAPE VEHOE CENT AFR BEE	50.1 97.7	45. E 50. J	58.8	50.0	99.0	98.8	98.9	9.6	98.8		-0.6	0.2
C.IAD CGNUBCS	97.8 92.6	97.8 86.7	152.4 87.9	97.9 85.7	97.8 87.8	99.2 83.0	100.8 85.8	57.2 85.3	10 1. 4 82. 9		-0.1 -0.7	
CONGC	112.9	95.C	98.4	56.2	96.7	33.3	89.2	EG.4	86.1 77.6		-2.5 1.1	-2.1
ZGYPT ZTdIOPIA	91.3 131.2	100.1	85.3 101.4	64.1 102.8	83.1 99.7	79.8 97.6	79.6 96.5	77.8 98.2	96.8		-0.2	-0.8
GAJON Gamela	90.3 126.9	76.4 120.2	78.6 129.0	71.3 126.9	67.3 126.6	69.4 119.1	71_9 113.9	73.4 109.9	75.6 194.6		-1.5 -0.7	
GHATA	106.1	101.8	167.3	103.7	99.7	97.4	97.8 92.4	100.0 69.4	98.5		-0.2 -2.6	-1.C
GJIN BISSAU GJINEA	104.5 99.5	93.6	94.7 96.2	100.4	104.2 97.5	86.9 96.5	92.6	52. 4	90.6		-1.7	-0.9
IVURY COAST KENYA	104.2 101.5	107.9 58.6	112.8 98.4	114.6 102.8	111.2	138.8 130.1	106.6 94.8	104.1 96.6	1.)3.5 96.6		-0.3 0.9	
7 3201 RC	84.3	74.9	93.2	65.6	63.0	77.7	80.4	79.0	64.1		-4.1	-1.0
TIBESIA TIBESIA	93.3 53.8	50.6 46.6	94.9 47.6	91.3 49.6	92.J 56.7	90.3 42.7	86.5 50.8	67.0 45.5	84.3 44.2		- 12.5	1.6
MADAGASCAE Malawi	103.3	59.0 103.8	100.7	98.4 101.7	99.5 103.1	93.9 103.5	96.1 104.3	58.0 103.6	97.7 104.6		-0.2 -2.6	
4111	99.3	97. 1	98.7	101.9	133.8	96.6	10 2. 1 53. 3	97.3 56.3	88.8 52.6		-2.1 -0.7	-0.1
MAURITANIA Anuritius	80.0 178.2	59.5 166.7	62.3 178.1	63.0 151.6	6J.5 172.3	55.2 164.9	162.3	164.8	138.6		-0.7	2.0
MOROCCC NOBARRIGUE	98.2. 109.6	66.5 103.4	94.2 105.4	81.5	94.2 10J.1	69.5 130.0	86.3 96.9	61.1 96.0	60.1 94.6		-1.0	
HAMIDIA	75.6	70.9	65.2	75.7	75.2	73.4	72.5 103.8	70.8 103.8	72.4 106.1		-2.9 -2.1	1.2
aigee Pigebia	110.9 105.4	132.4 57.2	107.2 99.6	99.2	109.3 97.5	173.1	93.6	92.9	92.4		1.2	-1,2
ROIKLS	133.9 99.3	122.4 58.5	120.2 98.7	118.8 98.2	124.1 98.6	126.4 98.4	125.7 98.0	118.8 58.2	116.4 98.2		-2.4 -0.1	-0.9 -C.1
SAU TOME PRE	154.8	157.9	164.5	139.8	116.2	124.4	129.1 113.8	126.3 89.5	124.8 83.8		-4.6 -6.6	
SZNEGAL Sizbra leone	112.9 100.8	133.9 97.7	116.1 99.5	121.2	114. t	91.0 97.1	96.7	51.4	97.3		1.6	-0.€
SGAALIA JOUTU AFRICA	94.4 114.9	85.7 116.4	92.6 129.2	65.4 115.7	82.9 108.3	83.6 117.9	83.2 119.9	76.5 111.0	75.2 119.0		-C.8 -7.9	-0.6
SUDAH	103.0	101.6	136.7	138.3	98.3	134.5	103.5	95.3 146.2	95.5 159.5		- 1.5 - 1.0	
JUAZILAND Tanzania	147.4 .160.7	152.5 58.2	159.1 95.4	151.7 56.7	148.5 98.3	98.4	100.0	98.0	75.8		2.5	-0.2
TUGC Tunisia	104.4 80.5	56.3 84.7	95.5 88.3	99.7 55.3	103.6 82.7	93.6 74.2	99.2 72.8	56.1 73.2	99.8 81.8		1.8	-2.8
LONALD	131.8	38.6	100.0	58.3 101.8	170.3 93.4	97-1 94-6	101.1 96.8	57.1 95.5	97.8 94.4		-0.1 -1.5	
UPPES VOLTA 2AIRE	102.3	96.C	57.a	57.9	96.7	97.0	95.4	96.6	96.0		-3.1	-C.5
TAMBA TIBADUE	92.1 112.5	51.3 115.8	95.6 125.3	91.7 117.6	94.2	90.9 120.1	91.3 122.2	€7.9 133.2	86.J		-1.3 -2.8	
N C ANERICA	115.9	125.2	118.8	120.5	129.9	131.4	128.0	132.0	126.7		-2.9	
• •		26.6		19.8	19.3	19.5	22.0	, 22.9	23.6		- 12.5	-6.5
AUTIGUA-BABB Bahanas	46.9	44.2	42.3	48.1	51.9	50.3	48.4	47.8 114.0	47. I 122.7		41.6	4.€
BARBADCS BELIEF	158.4 156.6	124.1 154.6	126.1	110.1 155.8 67.5	120.0	122.3 154.3	112.6 164.1	151.7	154.7		-0.5	0.3
BERNUCA Canada	23.8	61.4 159.3	54.7 121.2	67.5 134.2	51.8 155.5	741 149.1	72.2 151.5	52.6 131.6	51.6 141.4		93.2 -4.2	
COSTA BICA	178.6	112.2		134.2 116.4 138.8	112.7	112.1	110.0	108.7	105.1		0.6	
DOWINICY	147.5 105.9	116.9 54.3	134.0 98.6	67 7	136.0 96.6	137.2	94.6	84.3	85.6		-2.3	-1.3
COMA DOMINICA DOMINICA EL SALVADOR GRENADA	135.3 97.1	129.7 59.0 83.6	132.8	128.6	128.6	120.5 95.2 89.2	122.2		111.8 94.8	•	1.8	-0.5
GHENADA	88.3	83.6	76.4 116.3	81.1 109.5	91.3 113.5	89.2 135.5	53.4 108.4	112.7	88.7 105.4		-3.2 -1.8	
GUATESALA	121.2	104.6	104.4	104.7	113.2	109.7	102.8	102-1	101-5		0.8	-0.0
HAITI HONGURAS	37.7 112.5	105.5	95.2 104.8	52.5 100.4	89.7 102.9	84.8 136.2	129.9	101.4	104.2		-1.8	-0.6
HATTI HATTI HATTI HATTI HATTIALUS HATTIALUS HATTIANILLE HATTIANILLE HATTIANILLE HATTIANILLE HATTIANILLE HATTIANILLE HATTIANILLE HATTIANILLE SI VILIS-HEV SI VILIS-HEV SI VILIS-HEV SI VILISHDAD TCB UJA	115.0	88.6 83.1	94.3	82.4	88.5 82.1	82.6 82.4	83.6 81.6	61.1 75.2	37.2 104.2 74.7 71.5 93.3 16.4 107.2		-6.3	-3.0 -2.4
MOXICC	104.2	56.2	95.9 16.1	95.3	95.0	96.3 14.2	96-0 17-6	69.3	93.3		-1.9 8.3	-1.1 0.8
MICARAGUA .	109.5	107.2	136.3	138.1	111. 8	105.9	109.7	103.5	107.2		-0.2 0.0	-0.0
PAHANA Saint Lucia	195.7 113.6	106.2 55.5	98.3	106.0 52.6	94.0	86.1	110.0 94.1	\$5.5	91.0		-4.6	-1.1
ST KITS-MET	172.6	156.8	151.5	149.3	158.5	171.5 . 83.0	167. <u>/</u>) 87.6	156-3 87.6	155.6 85.6		-4.5 -1.9	-0.7
TRINIDAD TOB	103.0	86.2	90.3	84.6	89.7	84.7	77.1	72.7	67.9		-0.5	-6.1
UJA	114.7	128.3	121.8	133.6	133.1	135.8	130.9	139.1	131.3		-3.2	
SOUTH AMERIC	106.6	108.5	111.9	109.3	111.8	112.9	108.5	107.7	115.7		. 0.1	-0.1.
ARGENTINA	138.8	147.0	146. 4	139.0	148.3 · 97.5	142.9	161.3 92.9	162.2	147.1 92.3		-1-7 0.7	
JOLIVIA	87.9 101.6	92.4	92.4 105.1	96.4 167.9	111.1	111.6	102.6	101.5	104.5		1.1	-0.1
COLOMBIA	37.7 98.7	82.5 97.0	78.1 99.3	83.7 59.3	84.2 97.0	91.0	78.9 97.5	62.2 98.1	77.2 95.5		-0.7 -0.7	

Source: FAO, Rome 1984

FILE: AFFCCHT1 INTC7782 AT VM/SP CONVESSATIONAL MONITOR SYSTEM

COMMITMENTS OF CONCESSIONAL AND NON-CONCESSIONAL ASSISTANCE (EXCLUDING TECHNICAL ASSISTANCE GRANTS)
TO AGFICULTURE INDIFFCT IN CONTINENTAL AFFICA

O-S- dollars millions O.S. dollars millions

FECIFIENTS	1977	1978	1979	1960	1991	1962
=======================================						
ALGEFIA	. 0	0	113	C	0	0
ANGCLA	0	0	2	Q	0	2
LENIN	6	4	. 3	3	46	25
ECT SWANA	ц	· 17	1	13	8	11
BURKINA FASO	9	37	16	42	47	92
BUAUNDI	· 3 ·	0	6	. 29	46	- 50
CAMEFOCH	47	38	. 22	12	63	36
CAFE VEBLE	1	. 8	0	1	9	2
CENT AFFIC EEP	G	0	1	5	1	7
CHAD	. 4	5	1	2	2	2
COHOEGS	0	õ	0	0 *	0	0
CONGC	ц	ò	1	11	1	17
DJIBCUTI	1	ŏ	Ö	0.	ò	0
EGYPT	2	23	18	218	71	22
PTHIOPIA	53	4	15	17	17	15
GAEOK	0	ŏ	1	1	11	. 0
GAMBIA	15	ŏ	9	ů.	i	. 4
GHANA	2	ŏ	ú	12	9	i
GUINEA	16	ĭ	ò	13	12	i
GUIN BISSAU	2	9	18	10	7.	10
IVORY COAST	- 67	ź	46	- 32	79	77
KENYA	83	91	41	63	52	1 34
LESOTHO	4	3	1	7	6	17
IIBELIA	. 15	30	11	10	3	5
LIBYA	5	. 0		Ŏ	Ċ	ő
HADAGASCAR	. 6	8	7	14.	37	. 29
MA LA WI	ì	31		28	14	20
HALI	31	8	9	27	34	156
HA UBITANIA	31	ő	3	14	9	64
EAURITIUS .	ò	0	0	0		19
MO FOCCC	37	92	72	34	. 8	210
MO POCCC MC 2 A MBIQUE	9	92	10	31	43	63
NIGEF	16	8 .	14	51	18	32
KIGEEIA	. 0	0	31	Ü	6	1
REUNION	. 0	0	0	- 1	ő	0
E UNION E H A ND A	5	. 6	1	2	42	41
ST HELENA	í	. 0.	ò	ő	0	0
SE NEGAL	i	15	6	45	105	153
SEYCHELLES	ò	5	. 0	-0	.05	. 133
SIEEFA LEGNE	8	1	24	10 .	ŏ	8
SOMALIA	2	. 12	2	18	15	ŭ
SUCAN	17	20	28	34	18	9
SVAZILAND	27	21	10	3	5 -	. 7
TANZANIA	57	75	211	€6	76	98
10 GO	22	រ័រ	211	4	21	ů,
TUNISIA	54	151	74	111	112	55
UGANDA	6	131	' 6	7	26	21
ZAIBE	10	, 0	18	. 22	10	18
ZAMBIA	24	21	Ď	10	10	27
ZIMBABWE	ō	Ö	ŏ	8	18	90
AFFICA UNALLOCATED	3	9 .	6	3	80	111
WEST AFFICA UNALLOCATED	0	0	,	õ	. 0	42
HIDI AIFICE URALLOCKIED		v	•	•	•	
******************						*********
TOTAL AFFICA CONTINENT	681	770	651	1046	1198	1815
*****************	********					******

NOTE: The activities included in indirect agriculture are forestry, agro-industries,
manufacture of inputs, rural development and rural intrastructure, regional and
and river development

"O" indicates either no commitments or commitments with a value of less than 0.5 million US dollar

FILE: AFRCONT1 NATC7782 AT

VM/SP CONVERSATIONAL MONITOR SYSTEM

COMMITMENTS OF CONCESSIONAL AND NON CONCESSIONAL ASSISTANCE (EXCLUDING TECHNICAL ASSISTANCE GEARTS) TO AGRICULTUFE NAFFOW DEFINITION IN CONTINENTAL AFFICE

62CI [I 2N I S	1977	1976	1979	15 80	1551	1962	
	6	3	0	E	0	3	
ALGEFIA	0	ĭ	2	9	14	34	
MGCLA	2	6	Õ	ó	1	3	
BENIK BOTSWANA	9	ĭ	ì	11	7	32	
BUFKINA FASO	23	18 .	12	33	28	50	
BUFUNCI		6	5	16	21	15	
CAMEFOCH	33	.92	33	e7	21	115	
CAFE VEFDE	2	5	77	16	5	4	
ENT AFFICA PED.	e	2	10	2	Ē	26	
CHAD	21	15	8	ĩ.	11	а	
C MO F C S	ŝ	١,٥	. 0	11 1	. 2	1	
CO NGC	á	ż	. 2	12	3	2	
JIBCUTI	ć	í	ō	7	n	1	
EGYFI	67	39	ā	113	179	124	
EO GUINEA	, 0,	ō	Ģ	0	9	1	
THICPIA	5.6	33	10	16	€0	44	
SA BO N	3	5	ō	38	9	20	
SANEIA	2	ī	2	11	6	18	
SHANA	31	12	ī	71	ē	29	
GUINEA	Ö	15	16	22	3	1	
GUIN EISSAU	ğ	4	10	u.	9	7	
LVC5Y CCLST	25	56	29	32	16	70	
KZ NYA	77	123	106	88	64	55	
LESCIHC	1	6	12	12	6	. 5	
LIBPFIA	17	21	35	5	9	30	
MALAGASCAS	13	15	43	5	43	37	
BALAVI	20	28	10	3	6	7.	
MALI	32	34	3	15	44	22	
HA UFITANIA	4	6	35	55	29	21	
MAURITIUS	i	1	9	11	t\$	10	
BOFCCO	160	65	228	28	45	49	
HOZAMEIOUE	32	5	16	54	40	30	
NIGEF	18	5	.41	32	18	49	
NIGERIA	62	30	. 59	66	400	0	
FEUNION	ĩ	0		0	0	0	
HANDL	26	3	14	30	30	10	
ST HELENA	1	0	٥	0 .	. 0	0	
EAC TORE	2	9	0	1	3	4	
SE NEGAL	23	27	27	28	€0	73	
SEYCHELLES	2	2	3	2	2	. 2	
HEFFA LEONE	6	0	7	9	41	17	
OHALI A	75	15	37	92	67	28	
JUDAN	27	60	108	174	136	1 10	
IN AZILAND	14	23	0	0	4	7	
AKZANIA	42	43	69	73	152	106	
:0G0	4	2	18	10	6	3	
MISIA	42	58	36	147	79	64	
GANEA	Ō	0	0	30	34	36	
AISE	15	40	12	59	56	34	
ANBIA	13	43	58	26	77	£5	
				• *	q.	48	
IMBAHWE	0	0	0	12	2€	72	
FEICA GNALLOCATED	12	7	11	2	20		
E 424 E E E E E E E E E E E E E E E E E						***********	. =
OTAL AFRICA CONTINENT	107,1	,,,				CRESSESSES	

OTE: Narrow definition in this table excludes forestry to be closer to the concept of food production Omindicates either no commitments or commitments with a value of less than 7.5 million US dollars

FREQUENCY DISTRIBUTION OF ANNUAL RATES OF CHANGE (1978-82) OF PUBLIC EXPENDITURE ON AGRICULTURE, BY REGION a/ (AT CONSTANT 1978 PRICES, LOCAL CURRENCY)

	-15.0	-15 to -5.1	Annual rates of change % -5 to 5	5.1 to 15.0	15.0	Total Countries
RICA		Lesotho, Gambia, Ghana, CAR, Tanzania, Somalia Cameroon	Swaziland, Mauritius, <u>Burundi</u> , Benin, <u>Guinea</u> , Zaire, Kenya, <u>Mali</u>	Ethiopia, Algeria, Morocco, Tunisia	Liberia, Gabon	21
AND FAR EAST			Philippines, Pakistan	Nepal, Korea Rep., Bangladesh	Malaysia Thailand, Sri Lanka	
TIN AMERICA	Panama, Argentina, Haiti	Bolivia, Chile, Costa Rica	Surinam, Honduras Jamaica, Guatemala, Colombia	Brazil, El Salvador, Venezuela, Trinidad and	Paraguay, Ecuador, Peru	, ::
	•			Tobago, Mexico, Uruguay		20
AR EAST	Iraq, Libya	Sudan	Syria, Turkey	Cyprus, Egypt	Jordan	8
COUNTRIES	5	11	17	15	9	57

eflated by the consumer price index (CPI) for each country.

Countries underlined are LDC.

e: FAO, Policy Analysis Division and Statistics Division.

E/ECA/CM.11/37 Page 49 APPENDIX IX

Agricultural Research Expenditures and Manpower

		Expenditures Constant 198		Manpower (Scientist Man-Years)			
Region/Subregion	1959	1970*	1980	1959	1970*	1980	
Western Europe	274,984	918,634	1,489,533	6,251	12,547	19,540	
Northern Europe Central Europe Southern Europe	94,718 141,054 39,212	230,135 563,334 125,165	409,527 871,233 208,828	1,818 2,838 1,545	,4,409 5,721 • 2,417	8,027 8,327 2,686	
Eastern Europe and USSR	568,284	1,282,212	1,492,783	17,701	43,709	51,614	
Eastern Europe USSR	195,896 372,388	436,094 846,118	553,400 939,383	5,701 12,000	16,009 27,700	20,220 31,394	
North America and Oceania	760,466	1,485.043	1,722,390	8,449	11,683	13,607	
North America Oceania	668,889 91,577	1,221,006 264,037	1,335,584	6,690 1,759	8,575 3,113	10,305 3,302	
Latin America	79,556	216,018	462,631	1,425	4.880	8,534	
Temperate South America Tropical South America Caribbean and Central	31,088 34,792	57,119 128,958	80,247 269,443	364 570	1,022 2,698	1,527 4,840	
America	13,676	29,941	112,941	491	1,160	2,167	
Africa	119,149	251,572	424,757	1,919	3.849	830,8	
North Africa Nest Africa	20,789 44.333	49,703 91.899	62,037 205,737	590 412	1,122 952	2,340 2,466	
East Africa South Africa	12,740		75,156 81,827	221 696	684 1,091	1,632 1,650	
Asia	261,114	1,205,116	1,797,894	11,413	31,837	46,656	
West Asia South Asia Southeast Asia East Asia Chinz	24,427 32,024 9,028 141,469 54,166	70,676 72,573 37,405 521,971 502,491	125,465 190,931 103,249 734,694 643,555	457 1,433 441 7,837- 1,250	1,606 2,569 1,692 13,720 12,250	2,329 5,691 4,102 17,262 17,272	
World Total 2	,063,553	5,358,595	7,390,043	47,163	108,510	148,039	

►The 1970 figures are an average of data from 1968 and 1971.

Note: Data for this table are drawn from Appendix Table 1.

Source: Judd, Boyce & Evenson (1983).

Agricultural Extension Expenditures and Manpower

Expenditures								
	(000	(000 Constant 1980 US\$)			Manpower (Workers)			
segion/Subregion	1959	1970*	<u>1980</u> **	1959	1970*	1980**		
Pentern Europe	234,016	457,675	514,305	15,983	24,238	27,881		
Northern Europe Central Europe Southern Europe	112,933 103,082 17,950	187,144 199,191 71,340	201,366 236,834 76,105	4,793 7,865 3,330	5,638 13,046 5.704	6,241 14,421 7,219		
Eastern Europe and USSR	367,329	552,935	750,301	29,000	43,000	55,000		
Eastern Europe USSR	126,624 240,705	191,460 371,475	273,149 472,152	9,340 19,560	15,749 27,251	21,546 33,454		
North America and Oceania	383,358	601,950	760,155	13,580	15,113	14,966		
North America Oceania	332,892 50,466	511,883 90,067	634,201 125,954	11,500 2,030	12,550 2,563	12,235 2,731		
Latin America	61,451	205,971	396,944	3,353	10,782	22,835		
Temperate South America Tropical South America Caribbean & Central America	5,741 47,296 8,414	44,242 136,943 24,786	44,379 294,654 57,911	205 2,369 779	1;056 7,591 2,135	1,292 16,038 5,505		
Africa	237,863	481,096	514,671	28,700	58,700	79,875		
North Africa West Africa East Africa South Africa	84,634 53,600 39,496 60,153	176,498 181,324 86,096 37,178	172,910 204,982 106,030 30,749	7,500 9,000 9,000 . 3,200	14,750 22,000 18,750 3,200	22,453 29,478 24,211 3,733		
Asia .	143,876	412,937	507,113	86,900	142,500	148,780		
West Asia South Asia Southeast Asia East Asia China	28,211 56,422 19,747 39,496 n.a.	97,315 87,727 55,441 172,454 n.a.	119,780 82,194 63,959 241,160 n.a.	7,000 57,000 9,500 13,400	18,800 74,000 30,500 19,200 n.a.	16,535 80,958 33,987 17,300 n.a.		
World Total	1,427,913	2,722,564	3,443,489	177,521	294,483	349,337		

^{*}The 1970 figures are an average of data from 1968 and 1971.

**1974 data has been used where no data were available for 1980. In other cases, the 1980 data are averages for 1974-1980.

Note: Data for Lacin America, Western Europe, and North America/Oceania are drawn from Appendix Table 2. Data for Eastern Europe and USSR, Africa and Asia are estimates.

"Source: Judd, Boyce & Evenson (1983).