

Proj. No 6180644
A.I.D.
③

PROJECT AUTHORIZATION

1. PROJECT NUMBER 618-11-110-644	3. COUNTRY East Africa Regional	4. AGENCY 0015	5. AUTHORIZATION DATE 1/21/70
2. PROJECT TITLE Animal and Crop Production		6. PROP DATED December 10, 1969	

PD-AAA-845-D1
17p.

a. Number of Years of Funding: 4
Starting FY 19 70; Terminal FY 19 73

b. Estimated Duration of Physical Work
After Last Year of Funding (in Months): 15

FUNDING BY FISCAL YEAR (in U.S. \$ or \$ equivalent)	DOLLARS		P.L. 480 CCC + FREIGHT	LOCAL CURRENCY Exchange Rate: \$1 =			
	GRANT	LOAN		U.S. OWNED		HOST COUNTRY	
				GRANT	LOAN	JOINTLY PROGRAMMED	OTHER
Prior through Actual FY 69	145					-	
Operational FY 70	245						200
Budget FY 71	295						200
B + 1 FY 72	230						200
B + 2 FY 73	220						200
B + 3 FY	-						200
All Subsequent FY's	-						
TOTAL	1,135						1,000

9. DESCRIBE SPECIAL FUNDING CONDITIONS OR RECOMMENDATIONS FOR IMPLEMENTATION, AND LIST KINDS AND QUANTITIES OF ANY P.L. 480 COMMODITIES

Of nine positions requested eight will be provided through a contract, one under a PASA with USDA. The EAC-EAAFRO will provide equivalent of East African salaries and allowances for each of the specialists to be deposited in a trust fund which will be used by the Mission to pay local costs.

10. CONDITIONS OF APPROVAL OF PROJECT

The EAORA and EAC have signed an FY 1969 ProAg covering conditions required for support of specialists.

While the planned final year of funding is FY 1973 for this project, the Africa Bureau will be flexible on this matter pending a future evaluation of the training requirements and achievement of training objectives.

(Use continuation sheet if necessary)

11. Approved in substance for the life of the project as described in the PROP, subject to the conditions cited in Block 10 above, and the availability of funds. Detailed planning with cooperating country and drafting of implementation documents is authorized.

This authorization is contingent upon timely completion of the self-help and other conditions listed in the PROP or attached thereto.

This authorization will be reviewed at such time as the objectives, scope and nature of the project and/or the magnitudes and scheduling of any inputs or outputs deviate so significantly from the project as originally authorized as to warrant submission of a new or revised PROP.

A.I.D. APPROVAL	CLEARANCES	DATE
 SIGNATURE	AFR/ESA, Jerry Knoll <i>JK</i>	1/17/70
	AFR/DP, David Shear <i>DS/MSL</i>	1-19-70
	AFR/ID, Robert Rupard <i>RR</i>	1/14/70
	A/CONT	1/21/70
AA Africa	TITLE	DATE

AA/AFR, Phillip Birnbaum *B*

AIRGRAM

DEPARTMENT OF STATE

UNCLASSIFIED
CLASSIFICATION

For each address check one ACTION INFO

TO -	AID/W	TOAID A- <u>603</u>	<input checked="" type="checkbox"/>
	DAR ES SALAAM	USAID A- <u>87</u>	<input checked="" type="checkbox"/>
	KAMPALA	USAID A- <u>91</u>	<input checked="" type="checkbox"/>

FROM - NAIROBI

SUBJECT - NonCapital Project Paper (PROP)
Animal and Crop Production Project 618-11-110-644

REFERENCE -

8 90-W

DATE REC'D: [unclear] Center
FROM: [unclear] NS

DEC 15 PM 3 46

AID SR

DATE SENT: 12-10-69

DISTRIBUTION

ACTION

INFO

[Handwritten notes and signatures in the left margin]

NONCAPITAL PROJECT PAPER (PROP)

Country: East Africa Regional Project No: 618-11-110-644

Submission Date: September 12, 1969 Revision No. 1

Project Title: Animal and Crop Production

U. . Obligation Span: FY 1969 through FY 1972

Physical Implementation Span: FY 1970 through FY 1974

Gross Life of Project Financial Requirements:

U.S. Dollars	\$1,135,000
Cooperating Country Cash Contribution	\$1,000,000
Other Donors	\$ 150,000
Total	\$2,285,000

PAGE	PAGES
1	14

DRAFTED BY EMSmith/bdm	OFFICE F & A	PHONE NO.	DATE 9-12-1969	APPROVED BY: EAORA:DIR:JHowe
AID AND OTHER CLEARANCES EAORA:ADickie EAORA:GEaton		DIR:USAID/K:MSnoll DIR:USAID/T:GJNelson DIR:USAID/S:AMuller		

UNCLASSIFIED
CLASSIFICATION

A. Summary Description, Including Tabulation of Planned Inputs

1. Necessity and Justification

This proposed project stems from an East African Community (EAC) request for nine operational personnel to staff established positions in the East African Agriculture and Forestry Research Organization (EAAFRO), a research organization administered by EAC and serving Kenya, Uganda and Tanzania. EAAFRO is responsible to the EAC Research and Social Council for all matters of general policy and to the EAC Natural Resources Research Council for its research policy. In 1966 EAAFRO became an Associate Institute of the University of East Africa.

The economy of the East African region is based predominantly on agriculture and livestock. Agriculture is the occupation of over 80 percent of the people in the region. Agriculture and livestock products also comprise 80 percent of the commercial exports of the area, and together with their related manufacturing, processing and transportation services provide the base for the most important source of government revenues in East Africa. This project, therefore, would support a priority sector from the standpoint of development potential and also strengthen the regional aspects of the East African AID program.

This PROP is a combination of two PROPs, one dated April 10, 1968, with the same title, and the other PROP on East African Wildlife Research dated November 17, 1967. This PROP includes the scientists described in both of the previous PROPs, which had the approval and endorsement of the East African Regional Council, as well as the approval of EAAFRO. The East African Community secretariat for finance and administration had reviewed the proposal and concurred in its accuracy. They have determined that EAAFRO funds will be made available when required to implement EAAFRO responsibilities.

2. Project Goals and Targets

The purpose of this project is to fill established positions in a regional institution which has international staff and support, and is working on goals that parallel AID objectives in East Africa. It is proposed that an intermediary contractor provide the American personnel.

EAAFRO is responsible for undertaking research in the fields of agriculture and forestry, wildlife, animal production and ~~land~~ and water use, on problems that:

- (1) Are common to at least two of the East African countries and which can be investigated most efficiently and economically by a central research organization.
- (2) Require longer-term investigations or more intensive study than can be undertaken by national departments, or
- (3) Require highly specialized and expensive equipment, or the services of such specialists as can only be justified on an East African basis.

To these functions may be added, as and when the occasion arises, and through the medium of a specific request, scientific advice and discussion between EAAFRU research scientists and national research scientists, on problems pertinent to national programs

The East African Community has requested AID assistance in recruiting specialists for EAAFRU on a salary topping-up basis. An agreement between the East African Community and EAORA was signed on May 10, 1969, in which specialists in the following fields were requested and agreed to be furnished:

- a. Animal ecologist
- b. Range ecologist
- c. Animal nutritionist
- d. Plant breeder
- e. Plant pathologist
- f. Hematologist
- g. Soil Physicist
- h. Cereal breeder
- i. Agronomist

Job descriptions for these positions are outlined in section C of this FROF. The first three specialists would serve in the new EAAFRU Animal Production Unit which is an amalgamation of three research units: animal husbandry, range ecology and wildlife. EAAFRU has obtained the chief of the Animal Production Unit from Rockefeller Foundation. The Animal Production Unit, therefore, would have three AID technicians: the animal nutritionist, range ecologist and wildlife ecologist

The Plant Ecologist, Nematologist, Plant Pathologist, Soil Physicist, Cereal Breeder and Agronomist would be assigned to research divisions dispersed throughout EAAFRO. These six positions are essential in supporting plant development which undergirds animal production. EAC has attempted to recruit these personnel from local sources and through the U.K. Ministry of Overseas Development, but there is a scarcity of scientists in these fields. EAAFRO now is broadening its base of recruitment to include scientists from Canada, the U.S.A. and Australia.

EAAFRO requests that the nine specialists, with the exception of the nematologist, serve for a period of at least four years. As a condition precedent, EAAFRO undertakes to have either one local officer-trainee counterpart assigned to assist each expatriate officer, or to nominate a replacement for whom AID will provide M.Sc degree training in the U.S.A. for up to two years.

Under this project EAAFRO has agreed to provide \$2,200 per man-month for the American technicians. This sum to be paid into a special fund to USAID ~~Kenya~~. It is calculated to be the basic salary of a scientist filling the position, less the normal taxes, subsidized rent and other obligations normally assigned to the position. In addition, EAAFRO furnishes physical facilities (office space, laboratory, housing), necessary supplies and equipment, such as appropriate laboratory equipment, secretarial support, local travel and international transportation for participant trainees. AID would provide the technicians, train replacements as may be necessary and supply commodities in the amount of nine gas stoves, nine electric refrigerators, four jeeps, and certain special research materials.

TABLE 1

NON-CAPITAL PROJECT FUNDING (Obligations in \$000)

Page 5 of 14

East African Regional

ANIMAL & CROP PRODUCTION
618-11-110-644PROP DATE: September 12,
Revision 1

FY	Ap	L/C	Total	Cont ^{1/}	Personnel Serv.			Participants.		Commodities		Other costs		Other Cash Contribution Cooperating Country
					AID	PASA	CONT	U.S. Agencies	CONT	DIR U.S.Ag	CONT	DIR U.S.Ag		
OPER														
FY 69	TC	G	145	120			120			23		2		200
BUDG														
FY 70	TC	G	255	220			220	30						200
B+1														
FY 71	TC	G	295	250			250	45						200
B+2														
FY 72/ 73	TC	G	440	380			380	60						200
Total Life	TC	G	1,135	970			970	135		23		2		1,000

^{1/} Memorandum (nonadd) column.

B. Setting or Environment

1. Conditions and Environmental Factors

The East African Agriculture and Forestry Research Organization (EAAFRRO) is an international research organization serving the three East African countries, Kenya, Uganda and Tanzania. It is administered by and forms a department of the East African Community.

EAAFRRO was first established at Nairobi in 1948 and absorbed the former East African Agricultural Research Institute established at Amani in Tanganyika in 1944 which in turn had replaced the earlier East African Agricultural Research Station set up at Amani in 1927. The present headquarters of EAAFRRO including the central laboratories, experimental farms and forest plantations, were established at Muguga, some 17 miles north-west of Nairobi in 1951, on a 1,600 acre estate donated by the Government of Kenya. This estate is shared with the East African Veterinary Research Organization. The routine administration and accounts of both EAAFRRO and EAVRO are carried out by the joint services division. Close liaison is maintained between the two organizations and they are jointly responsible for the library which is the largest and most complete library for agriculture and ancillary sciences in East Africa. Responsibility for research on animal husbandry is also shared by EAAFRRO and EAVRO. The former undertakes research on animal management, pasture, and nutrition, whereas EAVRO is responsible for research on animal diseases. Both organizations utilize the facilities of the Muguga South Farm which is administered by the director of EAAFRRO.

Not all of EAAFRRO's research divisions are sited at Muguga. The sorghum and millet research division is at the Agricultural Research Station at Serere, Uganda; the maize research team is at the Grasslands Research Station at Kitale, Kenya, the Coffee Berry Disease Unit is housed in the University College, Nairobi, while the Forest Pathology Division occupies laboratories at the Nairobi District Office of the Kenya Forest Department near Muguga. The sugar cane breeding division is located temporarily at the Kikambala research station of the Kenya Department of Agriculture. Under development are sub stations at Kibaka in Tanzania and Kawanda in Uganda. One other division, the East African Herbarium is sited adjacent to the National Museum in Nairobi.

Expenditure for research in EAAFRRO in 1966 was approximately £240,000 derived as follows: 73% came from the East African Common Services Organization, including a matching grant from Great Britain of 43%, 12% from Great Britain under the Overseas Aid Scheme, 6% from the U.S.A.I.D., 4% from the Rockefeller Foundation. In addition, grants were received from the Munitap Foundation and the Norwegian Agency for International Development.

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EAAFRRO staff includes 60 scientists, 100 technical junior officers, 19 trainees. The overall number of staff, including supporting personnel is 342. EAAFRRO has been directed by Dr. Ordway Starnes under a Rockefeller Foundation grant for the past four years.

Substantial technical assistance in the form of staff, travel grants and equipment are received by EAAFRRO from a number of external donors. NORAD, in addition to supplying five officers, made several gifts of laboratory and field equipment for use by their officers. AID supplied four officers, housing, transport, capital and recurrent costs associated with their posting. In addition, AID defrayed all costs associated with the posting of two cereals specialists for a period of several weeks to determine the state of knowledge and to develop a research proposal on the subject of sorghum for food purposes.

The Canadian Office of External Aid granted a further period of secondment to a specialist to continue his research on agricultural meteorology. The University of Wisconsin made available an expert to work on tea insects of East Africa. The staff and recurrent costs of research on coffee and sugar cane were defrayed by the respective industries.

The Rockefeller Foundation continues its grants for research on maize breeding, for the support of the library, for travel grants and the graduate training of research officers and for the posting of the director.

The Swedish Government presented scholarships at Uppsala University and a travel grant to enable visits by an officer of the Herbarium to major European herbaria. The Kenya Forest Department has continued to provide housing for certain EAAFRRO staff, and for forest pathology laboratory facilities.

Denish Aid, the Carnegie Foundation, Netherlands Aid, FAO, International Atomic Energy Committee, and the Peace Corps have also assisted EAAFRRO.

During 1966 funds were provided by the Community for the purchase of materials for the construction by EAAFRRO staff of a 4th block of laboratories. A grant was obtained from the Rockefeller Foundation for certain equipment for this laboratory and for improving the instrumentation in existing laboratories.

2. Job Descriptions of Established Positions Requested by EAAEHO

A. Animal Ecologist (Planned to be located at Muguga)

Qualifications for this position are at least a Ph D in animal ecology and experience in ecological research, methods and procedures, habitat studies and related work with field experience.

Job Duties

- a. To assess and prepare inventories of the habitats of the numbers and species of wild animals and of numbers of each specie in different habitats.
- b. To assist the East African countries to delineate areas where wildlife constitutes an important portion of the grazing and browsing animals, i.e. regions where wild and domestic stock should be able to co-exist.
- c. To assess the extent of damage done in any particular habitat and develop and assess techniques for eleviating damage to agricultural crops caused by wildlife.
- d. To assist the East African countries in developing techniques and plans for land use and wildlife utilization to offset the economic losses that may be caused by wildlife.

B. Range Ecologist (Planned to be located at Muguga)

Qualifications are a minimum of five years post-graduate experience in practical aspects of range ecology with emphasis on the exploitation of grasses and forage for domestic and wildlife production. The range ecologist should have experience in East Africa and a willingness to collaborate in current work on pasture agronomy with specialists in both animal husbandry and wildlife. The ecologist in range work would be concerned with ecological conditions and browse utilization.

Job Duties

Development of range survey methods: This can be divided into three sub projects as follows:

- a. Grass species identification from vegetative characters. The objective is to develop a system for the rapid identification of east African grasses, to test this system and to make

it available to ecologists and range workers throughout East Africa. Limited studies are currently underway.

b. Range Survey Sheet: The objective is to develop a practical survey sheet for evaluating range land sites, to field test this, and to make it available to ecologists and rangeland workers in East Africa.

c. Range condition and trend: This is a very high priority project having as objectives an assessment of criteria which may be used in determination of optimum range conditions, to assess these criteria in relation to different land use systems and ecological zones, to evolve methods for determining range conditions and trend based on selected criteria.

C. Animal Nutritionist (Planned to be located at Muguga)

Qualifications: for this position are at least three years post-graduate experience and demonstrated competence in the conduct of animal nutrition experiments particularly under pasture, range and feedlot conditions. The candidate should be prepared to assume responsibility for a chemical section now performing 20-30,000 analyses of botanical and rumen samples annually.

Job Duties:

a. Beef feeding trials: The objectives are to induce increased appetite in zebu cattle, to determine optimum age at which to introduce zebu to stall feeding, optimum weight to slaughter, and the effects of liveweight gain on carcass composition. This work is currently underway, but should be accelerated.

b. Effect of rumen condition on dry matter intake: The objective is to examine complexes involved in regulating appetite in zebu and exotic cattle using rumen fistulated identical twins of both species. This is a proposed follow-up on earlier work which indicated that the limitation on growth rate in zebu cattle and of exotic cattle, is a result of lower feed intake rather than of digestive ability.

c. Summary and analysis of existing data

Allometric and feedlot studies: Utilizing present staff and facilities this work will require two years and some computer services.

D. Plant Breeder (planned to be located at Serere, Uganda)

Qualifications - For this position a scientist with broad experience in his field is required. He should have at least a master's degree and preferably a Ph. D. in botany or plant breeding. He should be knowledgeable and have experience in cereals breeding to work on sorghum and millet improvement in Serere, Uganda.

Job Duties

- a. He will assist in the identification and screening for adaptability of improved sorghums (strains, varieties, hybrids, etc).
- b. In collaboration with a second senior research officer, he shall assist in the development and testing of sorghum strains in search for a high-yielding, disease resistant strain with good milling qualities and high protein content.

E. Plant Pathologist (planned to be located at Muguga)

The plant pathologist will be required to assume responsibility for the Plant Quarantine Division as a specialist in the detection and identification of virus and other obscure diseases which may be introduced into East Africa with plant material arriving from abroad. He will be responsible for the development of methods of detection and identification. He must be able to employ all the known methods of virus detection and identification, which include: (1) the isolation and purification of virus inocula, (2) mechanical transmission of viruses, (3) transmission of viruses by budding or grafting, (4) vector transmission and (5) serological detection.

He will be responsible for setting up quarantine procedures and policies together with the implementation of them in the running of the East African Community Plant Quarantine Station at Muguga.

F. Entomologist (planned to be located at Muguga)

In view of petitions by the Chief Research Officers of the three East African countries that this program be greatly strengthened, technical assistance will be sought for the following projects:

a. Continued survey of plant-parasitic nematodes in East African soils. Apart from identification of nematodes found in routine samples, this work will entail the building up of a permanent collection of mounted specimens, the description of new species and other taxonomic studies.

b. The pathogenicity of various plant-parasitic nematodes in important East African crops. In laboratory and glasshouse experiments various plants will be inoculated with the most common plant parasitic nematodes under controlled conditions. The pattern of attack and penetration, and the symptoms produced by the plant will be investigated and correlated. Major species of nematodes on forage, cereal and food crops will be investigated over a period of about four years.

c. Crop losses due to nematodes in various crops. In field experiments replicated nematicide and untreated plots will be compared, both for population densities of nematodes and for final yield of the crop grown. Crop loss will be correlated to the population densities of nematodes affording a basis for the recommendation of nematode control measures. A recent experiment of this nature with maize will need to be repeated as the population densities in both the treated and untreated plots were negligibly low. Currently, a slightly different experiment with tea is underway. Experiments of this type on coffee and sugar cane are in preparation. These experiments will require approximately five years to complete.

d. The influence of abiotic factors on the biology of plant-parasitic nematodes. The effects of soil moisture, pore size and moisture tension on survival, movement and capability to attach plants of nematodes will be investigated to determine reasons for observed differences of behaviour of nematodes under different conditions. This is a two-year study.

e. Nematodes as vectors of plant viruses: The objectives of these studies is to establish the relationship between nematodes and viruses. It will include transmission tests in which virus-carrying nematodes will be expected to inoculate healthy plants with viruses, and also possible attempts to inoculate healthy nematodes with viruses. Estimated time required for this work is four years.

G. Soil Physicist (Planned to be located at Muguga)

The soil physics section of IARI has been generally concerned with the effects of cultivation equipment and other soil management practices on soil structure and water infiltration. The importance and relevance of this type of work to the cultivation practice and machinery policies in East Africa was stressed heavily at the specialist committee on agricultural machinery, but field studies require the maintenance of large scale experiments and the operation of often novel and costly equipment. Accordingly, the scope of experimental work depends completely on the cooperation of outside bodies. At present two investigations are in progress on the effects of minimal cultivation tillage techniques on soil structure and water conservation at West Kilimanjaro and Songua, Tanzania, in cooperation with the Northern Regional Research Center, Tengeru and Plant Protection Limited, and a third study of the effects of several implements on soil structure and crop growth is in hand at Katumani, Kenya, in cooperation with the Department of Agriculture, Kenya. The Specialist Committees for Agricultural Machinery and Soil Fertility recommended that the Physics Division should undertake a basic long term investigation to define appropriate physical parameters to describe and compare aspects of soil structure relevant to the effects of implements and to aeration and drainage in important East African soil types. The contribution of IARI to the existing experiments is severely limited by the absence of a specialist in soil physics in addition to the head of this division. The governmental contribution to the experiments on hand is very considerable and no other studies on the physical environment of the soil are being conducted in East Africa, apart from routine water holding capacity determination.

Job Duties

a. Calibration of neutron moisture meters: The calibration of these meters supplied by the International Atomic Energy Agency in the soils at Muguga and in the Kenya catchment experiments has presented unexpected problems that are as yet unexplained. In view of the potential usefulness of the neutron moisture meter for soil moisture studies in East Africa, a more critical study of the calibration problem will be carried out over the next two years.

b. Crop water use: One of the most important limiting factors to crop production in the tropics is the very high water requirement for evapo-transpiration. Information on crop water use is necessary for the rational planning of both rain grown and irrigated crops. Several research projects on crop water use using hydraulic lysimeters are already in progress on a cooperative basis and most of these will extend over the next five years.

Projects in hand include lysimeter studies of the water use of maize at Irwa Irrigation Scheme, in cooperation with the International Atomic Energy Agency and the Department of Agriculture, Kenya, the water use of sugar at Arusha Chini, Tanzania, in cooperation with the Tanganyika Planting Company and the Northern Regional Research Center, Tengoru, the water use of pyrethrum at Mjomba, Tanzania, in cooperation with the Tanzanian Pyrethrum Board, the water use of sorghum at Sororo, Uganda, in cooperation with the sorghum-millet breeding division of EAFRO, and the water use of tea at Kericho, Kenya, in cooperation with the Tea Research Institute of East Africa.

In addition there are outstanding offers of financial and technical assistance to operate another lysimeter study of the water use of cotton and beans at the Mbarali Irrigation Scheme, in cooperation with the Water Development Department, Tanzania, and for further studies of the water use of sugar from the Mumias Sugar Scheme and the Chomilil Sugar Company, Kenya.

c. Water use of crops under stress: Besides the strong support from members of the Specialist Committee on Applied Meteorology for more work on potential evapo-transpiration studies, there have also been a number of requests that high priority be given to an investigation of the evapo-transpirational response of crops to water stress. It may be possible to incorporate some such study into existing experiments, but it would be more convenient and desirable to carry out this type of experiment under close supervision at EAFRO.

d. Cereal Breeder (Planned to be located at Mwanza)

Qualifications: An experienced geneticist having at least a master's degree and four years experience working with rice improvement.

Job Duties:

- a. To assemble a comprehensive collection of rice varieties and related species.
- b. To assess the quality of this collection and develop adaptive varieties suited to production in the variety of growing areas of East Africa.

I Agronomist (Planned to be located at Mwanza)

This specialist would primarily be a field research agronomist. He will be concerned with assessing and determining optimum agronomic practices relating to basic soil, plant and water relationships in the production of rice. Through his research work he will determine those soil management factors which contribute to maximum production. His work will include the inter-relationship of population density, nutrition requirements, climatic conditions and management practices.

3. Approval

The project described above represents agreements reached among various parties who have signed the project agreement starting activities on May 10, 1969. It is clearly understood that any obligation by AID is subject to the availability of funds beyond the \$145,000 obligated under project agreement ACP No. 1(910) dated May 10, 1969.

McILVAINE

I. PROJECT IDENTIFICATION

PROJECT TITLE: Animal & Crop Production RA-0015

APPENDIX ATTACHED: YES NO

PROJECT NO. (P.O. 11533): 618-11-110-644

SUBMISSION DATE: 12/10/69

REGISTRY NO.: 69

REVISION NO.: 1

CONTRACT NO. A-2(AJ)

RECIPIENT (Agency): East Africa Regional

RECIPIENT TYPE: REGIONAL NATIONAL INTERNATIONAL

LIFE OF PROJECT: BEGIN FY 69 END FY 72

II. FINANCING (CUMULATED YEAR MONTHS) (MAY REQUIREMENTS)

A. FUNDING BY FISCAL YEAR	B. TOTAL \$	C. PERSONNEL		D. PARTICIPANTS		E. COMMOD. TITLE \$	F. OTHER COSTS \$	G. F/A CONTR.		H. LOCAL EXCHANGE EQUIVALENT RATE: \$ US		
		MM	MM	MM	MM			MM	MM	MM	MM	MM
1. PROGRAMS ACTUAL FY	285	248	75	15	24	23	9	248	75			24
2. OPER. FY	72	29	12	-	-	-	10	34	12			5
3. BUDGET FY												
4. BUDGET FY												
5. BUDGET FY												
6. BUDGET FY												
7. ALL SUBD. FY												
8. GRAND TOTAL	357	277	87	15	24	23	19	282	87			29

9. OTHER DONOR CONTRIBUTIONS

(A) NAME OF DONOR: None directly involved

(B) KIND OF GOODS/SERVICES:

(C) AMOUNT:

III. ORIGINATING OFFICE CLEARANCE

1. DRAFTER: E.W. Lofthouse TITLE: AFR/EA/EART DATE: 10/21/71

2. CLEARANCE OFFICER: Everett Hedrick TITLE: AFR/EA/AG DATE:

IV. PROJECT AUTHORIZATION

1. CONDITIONS OF APPROVAL

This authorization provides FY 1972 funds to cover the support costs of the US PASA technician only.

2. CLEARANCE

BUR. OFF.	SIGNATURE	DATE	BUR. OFF.	SIGNATURE	DATE
AFR/EA/E	John H. ...	10/21/71			
AFR/DP	Edward B. ...	10/21/71			
IA/AFR	Herby ...				

3. APPROVAL BY THE DIRECTOR: IA/Africa DATE: 10/21/71

4. APPROVAL BY THE AGENCY: ADMINISTRATOR, AGENCY FOR INTERNATIONAL DEVELOPMENT SIGNATURE: DATE:

AID-2-3 (5-64)

PASA
BUDGET PLAN
By
Object Class

PARTICIPATING AGENCY SERVICE AGREEMENT
WITH: USDA For
Animal and Crop Production

BUDGET PLAN FOR FY 1972

AMOUNT: \$33,840
APPROPRIATION
ALLOTMENT

PASA CONTROL NO.
AFR(AJ) 18-70

Page _____
of _____ Pages

PROJECT NO.

Position	Class. Grade	FC Grade	Rate	Men Years	Salary	Differ- ential	11	12	21	22	TOTAL
							TOTAL	Personnel Benefits	Intr.* Travel	Transportation of Things & HHE Storage	
Plant Pathologist Kahn, Robert P.		12/4	26,563	12 mos.	26,103		26,103	2,222			28,725
Inspection travel									200		200
TOTAL				1.	26,103		26,103	2,222	200	400	28,925

Estimated costs for purchase and transportation of supplies of a specialized nature available from USDA sources.

Excludes local, educational or R&R travel, allowances and all other local support costs funded by AID mission.

	TOTAL	28,925
22. Trans. of things		100
23 Rent, Communications, Utilities		
26 Supplies and Materials		400
31 Equipment		75
		29,425
Overhead	15	4,415

*Estimated Per Diem: \$200

AS/IDN (7/15/73)

GRAND TOTAL 33,840 2/