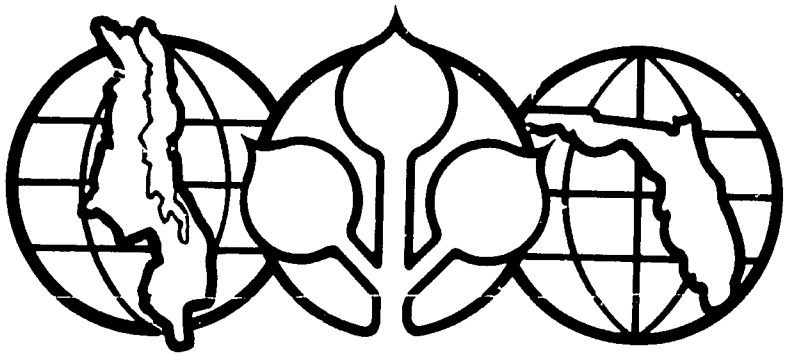
PD-AAR-717



Malawi Agricultural Research Project

Center for Tropical Agriculture
International Programs
Institute of Food and Agricultural Sciences
University of Florida

The Department of Agricultural Research
Ministry of Agriculture, Malawi

The U.S. Agency for International
Development

PD-AAR-717

STRENGTHENING THE DEPARTMENT of AGRICULTURAL RESEARCH

Project No. AFR 06 612-0202

Contract No. AID/afr-C-1653 (Malawi)

March 1983

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Introduction

The University of Florida (UF) technical assistance team is in Malawi as part of the Malawi Agricultural Research Project, AFR 06 612-0202, the purpose of which is to strengthen the Department of Agricultural Research (DAR) of the Ministry of Agriculture (MOA). The project is funded by the United States Agency for International Development (USAID) and the Malawi Government (GOM). The University of Florida is administering the project as the Title XII contracting institution.

The Project consists of a **$9,000,000** grant from USAID to the Government of Malawi with the University of Florida, Gainesville, as the contractor. The Project goal is to improve smallholder productivity and per capita real income. The Project purpose is to strengthen the capability of the Department of Agricultural Research to provide socially acceptable and economically sound research recommendations. AID inputs include: training; technical assistance; construction, commodities, recurrent costs.

Participant Training	*$1,581,900*
Technical Assistance	*3,102,700*
Construction	*2,000,000*
Commodities	*788,300*
Recurrent Costs	*872,800*
Evaluation	*50,000*
Contingency (General)	*304,300*
Contingency (Construction)	*300,000*
TOTAL AID/UF GRANT	*$9,000,000*

Agreement signed between Governments	August 1979
Contract signed with University of Florida	May 1980
Expiration of Project	August 1984

A summary of project inputs to December 31, 1982 are presented in Figure 1.

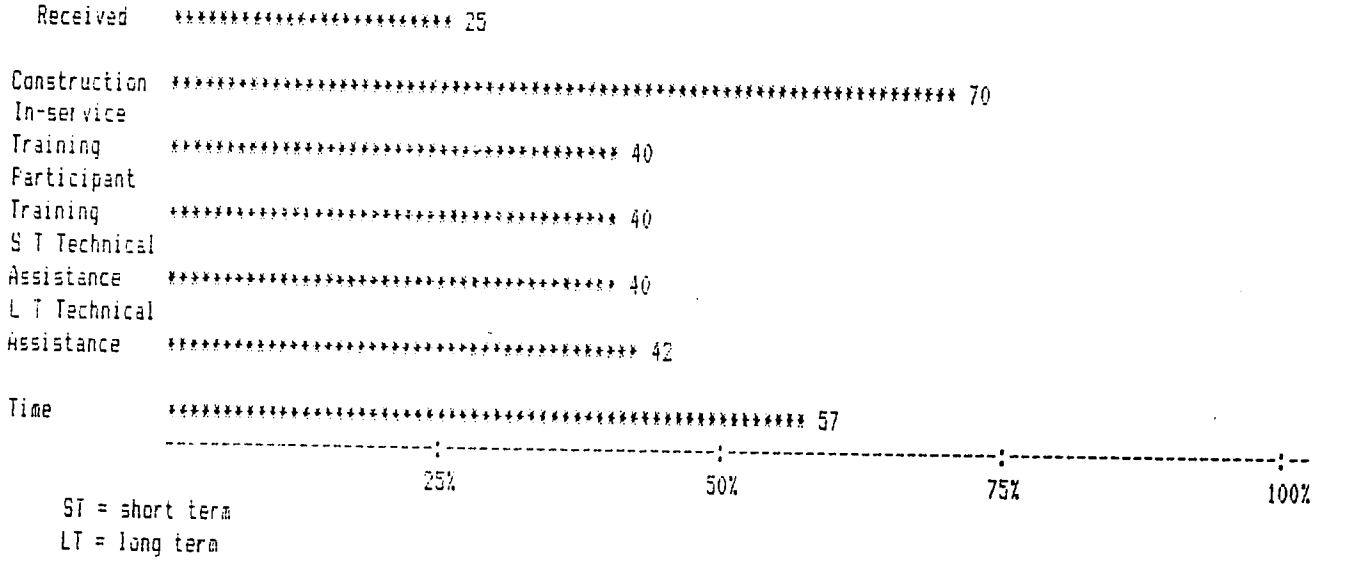

Figure 1. Malawi Agricultural Research Project, Summary of Inputs to December 31, 1982.

Vehicle purchases include 4 Peugeot station wagons, 7 Land Rovers and 4 Nissan Pick-ups. Also 15 Yamaha motorcycles were purchased. This represents 100% of the vehicles allocated in the project paper.

Research commodities were 70% ordered by December 31, 1982. The balance of the equipment will be ordered within the next few months. The commodities received totaled 25%, and many are already in transit.

Construction was 70% completed by December 31, 1982. The major construction remaining was at Chitedze, and the soils laboratory at Bvumbwe. Construction had not yet started at Tsangano.

In-service training was 40% completed by December 31, 1982. Plans were projected to utilize the remaining funds before the project completion date.

Participant training was 40% completed by December 31, 1982, some 23 students were in seven US universities studying for the MSc and PhD degrees.

Short-term technical assistance was 40% completed and long-term technical assistance was 42% completed by December 31, 1982. There were 6 long-term staff members in Malawi, and the horticulturist is projected to begin in late March 1983.

The time remaining on the project is 43%. The project completion date is November 30, 1984.

Technical Assistance

The purpose of long and short term technical assistance is to qualitatively strengthen ongoing research programs and introduce new research programs in Farming Systems Analysis and Agricultural Economics. Seven Long Term Technical Assistants were outlined in the Project Paper.

Position Title	*Filled by*
Research Coordinator & Chief of Party	*D.E. McCloud, Ph.D.*
Agricultural Economist	*D.W. Pervis Ph.D.*
Agronomist	*L.J. Janicki, Ph.D.*
Farming Systems Analyst	*A. Hansen, Ph.D.*
Horticulturalist	*C.E. Arnold, Ph. D.*
Livestock Specialist	*R.C. Gray, Ph.D.*
Plant Breeder	*S.F. Pasley, Ph.D.*

Training

The Project supports the training of 33 Malawian Professional Officers to the MSc or PhD level. As of 1 January 1983, there were 23 Malawians in training in the U.S., at seven universities, Table 1.

Table 1

PARTICIPANT TRAINING QUARTERLY REPORT
October 1 to December 31, 1982

Name	Training	Degree Program	Station	Departure	Months Accumulated	Due Back	Funded To	Degree
Chapola G.M.	Plant Pathology	Ph.D.	Bvumbwe	Dec 27 '80	24	Apr 84	Jun 84	
Chigwe C.F.B.	Sorghum Breeding	Ph.D.	Makoka	Dec 28 '81	12	Dec 84	Jun 85	
Chikwana R.	Agricultural Economics	M.S.	Chitedze	Dec 26 '80	24	Dec 82	Jun 83	
Chilembwe E.H.	Fruit Crops	M.S.	Bvumbwe	Dec 27 '80	24	Jun 83	Jun 83	
Chipala E.E.	Soybean Breeding	Ph.D.	Chitedze	Dec 26 '80	24	Dec 83	Jun 84	
Chirembo A.B.M.	Statistics	M.S.	Makoka	Dec 28 '82	0	Dec 84	Jun 85	
Dzowela B.H.	Pasture Agronomy	Ph.D.	Chitedze	Dec 26 '80	24	Jun 84	Jun 84	
Gadabu A.D.	Entomology	M.S.	Bvumbwe	Dec 28 '82	0	Dec 84	Jun 85	
Gondwe W.T.	Vegetable Crops	M.S.	Bvumbwe	Dec 28 '81	12	Dec 83	Jun 84	
Khonje D.J.	Soil Microbiology	Ph.D.	Chitedze	Dec 28 '81	12	Dec 84	Jun 85	
Kisyombe C.T.	Plant Pathology	M.S.	Chitedze	Dec 28 '82	0	Dec 84	Jun 85	
Kisyombe F.	Statistics	M.S.	Makoka	Dec 27 '80	17	Jun 82	Jun 83	None*
Mkamanga G.A.	Crop Physiology	Ph.D.	Chitedze	Dec 26 '80	24	Jun 84	Jun 84	
Mtambo P.J.	Seed Technology	B.S.	Chitedze	Dec 28 '81	12	Dec 83	Jun 85	
Munthali F.C.	Agronomy	M.S.	Chitedze	Dec 28 '82	0	Dec 84	Jun 85	
Munthali J.T.L.	Animal Nutrition	Ph.D.	Chitedze	Dec 26 '80	24	Dec 83	Jun 84	
Mwango E.N.	Applied Anthropology	M.S.	Chitedze	Dec 28 '82	0	Dec 84	Jun 85	
Mzembe C.P.	Irrigation Agronomy	M.S.	Kasinthula	Dec 27 '80	24	Jun 83	Jun 84	
Ngwira L.D.H.	Maize Agronomy	M.S.	Chitedze	Dec 28 '81	12	May 84	Jun 84	
Nthakomwa B.F.	Agricultural Economics	M.S.	Chitedze	Dec 28 '82	0	Dec 84	Jun 85	
Ntokotha E.M.	Soil Survey	Ph.D.	Lilongwe	Dec 26 '80	24	Jun 84	Jun 84	
Saka A.L.	Soil Physics	Ph.D.	Chitedze	Dec 27 '80	24	Dec 83	Jun 84	
Sibale P.K.	Groundnut Breeding	Ph.D.	Chitedze	Dec 26 '82	24	Jun 84	Jun 84	
Zambezi B.T.	Maize Breeding	M.S.	Chitedze	Jun 4 '81	19	Dec 83	Dec 84	
Total					350			

* Terminated without Degree in May 1982

In addition, the Project supports short term training for research personnel at International Research Centers and research centers in neighbouring countries.

Construction

AID has financed construction of 48 staff houses to support the additional staff recruited by the GOM under the Project. Additional physical facilities financed by the Project include: 2 cold storage rooms; 4 storerooms; 6 greenhouses; 3 laboratories; 1 drying shed; and offices.

Site Location	Number and Type	Percent Completion	Funds
Chitedze	3 BH2A	90	$925,094
	5 BH3	90	
	10 DH6	90	
	5 PH4 (Mod)	90	
	2 Cold Storage	0	
	3 Green Houses	0	
	1Office Block	100	
Bvumbwe	1 BH2A	100	$410,590
	3 BH3	100	
	3 DH6	100	
	2 Green Houses	0	
	1 Laboratory Block	5	
Makhanga	1 EL2	100	$11,934
Tsangano	2 CH10	0	$146,766
	1 DH6	0	
	3 PH4	0	
Mbawa	1 DH6	90	$40,992
	1 PH4 (Mod)		
Kasinthula	1 DH6	90	$40,382
	1 PH4 (mod)		
Kawalazi	1 PH6 (mod)	0	$10,980
Makoka	2 CH10	90	$78,080
Bunda	1 Green House	20	$42,568
	1 Field Laboratory	60	
Lunyangwa	1 DH6	90	$27,572
Grand Total (with inflation)			$2,000,000

Commodities

For the purchase of commodities and vehicles, $788,300 was allocated. This will allow the D.A.R. to perform a number of specific analyses which were beyond its capability at the start of the Project. Some examples include: spectrographic soil analysis; plant growth analysis; diagnosis of less common plant disease; detection of nematode infestation, and determination of nutritive value of forage by in vitro techniques.

Seven Land Rovers and 25 other vehicles have been purchased by the Project to enable research personnel to visit sites around the country.

SUMMARY OF COMMODITY PURCHASES

	Expenditures	*Budget 5/30/80-5/30/82*
Budget Amount (1st 2 years)		*$ 768,300.00 **
Vehicle purchases (completed)	*264,003.00*	
Commodities purchased by UF	*112,429.75*	
Commodities purchased in Malawi -Shelf Items	*70,189.73*	
Requisitions to purchase November 1982 to January 1983	*155,776.52*	
Proposed expenditures by UF January 1983 to November 1984	*419,170.00*	
Shipping costs - UF to Malawi	*125,000.00*	
Proposed expenditures in Malawi - Shelf Items	*50,000.00*	
	1,196,569.00	*768,300.00*
	Balance	*(-428,269.00) ***

**Proposed budget submitted to AID/W $771,472.31*
*** Proposed source of funding from transfer of unexpended recurrent costs.*

Recurrent Costs

It was recognized that the GOM would not be able to support all of the new research activities generated by the Project. $872,800 was allocated to alleviate this problem and in spread over the life of the Project. AID has encouraged the GOM to invest more in research by insisting that the GOM assume a progressive burden of the recurrent costs. This is broken down by year of the Project as follows:

Year	*AID Share*	*GOM Share*
1	*100%*	*0%*
2	*80%*	*20%*
3	*60%*	*40%*
4	*40%*	*60%*
5	*20%*	*80%*