

PD- AAQ - 094

FACULTY OF AGRICULTURE EXPANSION PROJECT*
University of Zimbabwe

SEMI-ANNUAL REPORT
for the period
March 31 - September 30, 1984

prepared by

Dr. Kim A. Wilson, Project Coordinator
Dr. Kirk Lawton, Field Team Leader
Michigan State University

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University of Zimbabwe
Michigan State University/The Pennsylvania State University Cooperating

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EXECUTIVE SUMMARY

Activities in the first six months of this project centered on meeting targets described in the time-phased work plan in the project design. The accomplishments are briefly highlighted below: (See Appendix C for a brief project description)

1. The project was implemented rapidly, 18 days after contract signing, with the arrival of the Soil Scientist/Field Team Leader on April 17 for a two-year assignment. Two more long-term specialists arrived shortly afterward for two-year assignments.
2. Two short-term specialists conducted intensive workshops and consultant programs in Zimbabwe.
3. Three long-term participants began formal graduate degree programs (one M.S. two Ph.D.) at MSU.
4. Three short-term participants engaged in intensive training in the US.
5. More than half of the budget for procurement of teaching and research equipment has been allocated. Most equipment has either been ordered or has been sent for bids.
6. Administrative and logistical support capacity has been developed in Zimbabwe.
7. On-campus administrative and logistical support staff are in place at both MSU and PSU.

The project design and the commitment of all staff of each cooperating institution in Zimbabwe and the US have contributed well to success in the project to-date. The contract, project design, and operational style are flexible. Excellent cooperation between the University of Zimbabwe and the Ministry of Agriculture has provided a solid base for the project's training and technical cooperation components.

The process of rapid project implementation concurrent with work plan development is not without its problems. Most problems have been resolved with dispatch; those remaining will be resolved in the next few months.

In summary, the project has proceeded apace in meeting most goals. Although this is a complex program involving the coordination of several program elements among several institutions, definite progress has been made and we are confident this success will continue.



I. GENERAL INFORMATION - PROGRAM IN ZIMBABWE

The contract to strengthen the Faculty of Agriculture at the University of Zimbabwe, negotiated between the US Agency for International Development (Nairobi and Harare) and Michigan State University, became effective on March 31, 1984. A subcontract between MSU and Penn State became effective on that date. Shortly thereafter, a number of activities commenced. The Field Team Leader, Dr. Kirk Lawton, spent the week of April 9-13 in orientation and consultation at MSU with the Project Coordinator, Dr. Kim Wilson; Program Administrator, Dr. Paul Roberts; and Director of the Institute of International Agriculture, Dr. Donald Isleib.

Upon arrival in Harare on April 17th, Dr. Lawton set about to develop the basic project administration structure and procedures with the assistance of Dean Malcolm Blackie and Administrative Assistant, Venetia Winkfield. An imprest fund with checking accounts in East Lansing and Harare was established to cover specific project expenditures with co-signers, Kim Wilson and Kirk Lawton. Mrs. Venetia Winkfield was hired in April to serve as Administrative Assistant for the project and Mrs. Murie Hutchison joined the project as Secretary on September 1.

A. LONG-TERM SPECIALISTS

Three MSU and PSU staff members, who will be on the project at least two years, were active during this first six months. Their names, arrival dates, and specialized areas are listed below: (See Appendix B for more detail)

Dr. Kirk Lawton	April 17 - Soil Science
Dr. James Rosenberger	June 9 - Bio-Statistics
Dr. Joseph MacNeil	June 16 - Food Science

Dr. Lawton had relatively little time to devote to the soils area, being involved in many responsibilities in the initial administration of the project. However, he became well acquainted with Zimbabwean and expatriate staff of the soil science area and their teaching responsibilities and research interests. Dr. Lawton arranged for a few selected text books from US sources to be purchased under the project and distributed to the lecturers in soil chemistry, soil physics, and soil fertility. In addition, he participated in several extension meetings for commercial maize growers discussing soil fertility and the use of fertilizers. Field trips were taken in association with land management staff to Mzurabani in the Zambesi Valley, to irrigation schemes adjoining the Sabi River, and with crop science staff to the Rattray-Arnold Seed Co-op field station.

Dr. James Rosenberger, Associate Professor in Statistics at PSU, was assigned to the Department of Land Management and is academically responsible to the chairperson of the unit. He started teaching a statistics course, AGE 106 (Agricultural Statistics and Mathematics), shortly after his arrival at the University. Dr. Rosenberger has consulted with a number of staff in the Faculty on statistical applications to on-going research programs. Also Jim Rosenberger provided valuable assistance to Dr. Tom Stilwell, short-term specialist in microcomputer applications in the microcomputer workshop (August 25 - September 10) sponsored by the project, UZ, and the

Ministry of Agriculture. He also assisted in the final development of specifications for the microcomputer order to be purchased from project funds.

He has made orientation visits to Rattray-Arnold Seed Co-op with crop science personnel, to Ministry of Agriculture, Research and Specialist Services, Biometrics Section; attended the Rural Development Technology Exhibition; and visited several local industrial plants with food science personnel. Following the short course on microcomputer applications, he has provided follow-up to the participants and assisted in selection and installation of software.

In addition to teaching, he has accepted graduate committee assignments for several doctor of philosophy (D. Phil.) students at various stages in their research; in one case serving as a member of the examination board for the completed thesis.

Dr. Joseph MacNeil, Professor in Food Science at PSU, was assigned office space in the animal science department and is academically responsible to Mr. Duncan Hale, Chairman. Upon arrival he was immediately thrust into teaching classes in food microbiology, including practicals. During the first several months of his assignment, Dr. MacNeil made visits to many of the food processing companies in Harare and elsewhere for orientation purposes and to develop contacts in the food industry. At the request of Mr. Hale, Dr. MacNeil was asked to head a committee to study the teaching of

food science in the University of Zimbabwe and to propose a long-range plan for the effective administration of a food science program. This committee had representatives from the departments of biochemistry (Faculty of Science) and animal science (Faculty of Agriculture). Seven meetings of this group were convened during the period of mid-July to September 30, 1984.

A short-term proposal on the interim regulations concerning the operation of the MS food science program was prepared and submitted to the respective department and faculty boards for consideration and approval. Attention is currently being given to the preparation of a long-range proposal, possibly to include a BS course in food science.

Dr. Robert Herner, Professor of Horticulture at MSU, who will be the long-term horticultural specialist; and Dr. Steven Buccola, Associate Professor of Agricultural Economics at Oregon State University, who will serve 18 months as an expert in agricultural economics with the project, are expected to arrive in Harare in early January 1985. They are both being advised about their assignments by the Project Coordinator and staff in East Lansing, and the Field Team Leader and UZ staff in Harare. Both specialists should be well settled in for their responsibilities at the time classes start in March 1985.

Dr. Buccola visited the University of Zimbabwe during the period of September 10-29 while serving as a consultant of the AID/MSU/Food Security Project within Zimbabwe and southern Africa.

Recruitment for a two-year US specialist in the area of small ruminant production/management was unsuccessful. Several candidates have expressed interest; their credentials will be reviewed in November during the visit of the Project Coordinator to Zimbabwe. Priority needs in animal science for long-term expert help were reexamined and recruitment for a long termer in animal production/management or animal breeding is currently under way by the Project Coordinator at MSU.

B. SHORT-TERM SPECIALISTS

The identification of needs for short-term specialists has proceeded on a departmental basis. Terms of reference were developed cooperatively between the Department Chairperson and the Field Team Leader during May to July for six short-term experts. The area of need, the timing, the department requesting assistance, and identified candidates are presented briefly below: (See Appendix B for more detail)

<u>Proposed Timing</u>	<u>Area of Need</u>	<u>Requesting Department</u>	<u>Identified Specialist</u>
August 84	Microcomputer Applications	Crop Science	T. Stilwell
November 84	Bio-Environmental Control	Crop Science	E. Everson
March 84	Farm Management	Land Management	W. Vincent
	Grassland/Pasture Management	Crop Science & Animal Science	
	Animal Breeding	Animal Science	
	Animal Physiology	Animal Science	

One short-term specialist was assigned to the project in the first six months, Dr. Thomas Stilwell of Michigan State University conducted a two-week workshop on microcomputer applications for staff of the Faculty

of Agriculture, the Research and Specialist Services Division of the Ministry of Agriculture, a few selected commercial farmers, and two researchers from the Zimbabwe Seed Cooperative.

C. LONG-TERM PARTICIPANTS

The University of Zimbabwe has a program for staff development under which they identify qualified graduates or young scientists who are sponsored and supported for advanced training. In the Faculty of Agriculture, about ten individuals have been selected as Staff Development Fellows. The FTL has consulted with most of these candidates and has worked intensively with three who expressed the desire to study in the US at the graduate level starting September 1984. These individuals, their fields of study and the academic degree they will work toward are listed below: (See Appendix B for more detail)

Kingstone Mashingaidze	- Crop Science (Maize Breeding)	PhD
Godfrey Mudimu	- Agr. Economics (Farm Management)	MS
Irvine Mariga	- Crop Science (Legume Agronomy)	PhD

Because of somewhat late identification of these Staff Development Fellows and preparation of admission applications to US universities, they were presented to MSU, (Penn State's academic year began in mid-August) and on August 30 were accepted for enrollment in Fall Term, 1984.

Four USAID scholarships to be awarded under the MSU/PSU/UZ/USAID Project were publicized on August 3. To-date, about a dozen individuals have made applications for these training programs leading to advanced degrees. Award of these scholarships has not been made as of the end of September.

D. SHORT-TERM PARTICIPANTS

During the first six months of the project, the Faculty of Agriculture nominated three staff for short-term training in the US. Mr. Clive Levy of the crop science department spent the month of August on a visitation program at six US universities interacting with plant pathologists and agronomists on soybean diseases. While in the US, he attended the World Soybean Conference at Ames, Iowa. On his return trip, Mr. Levy spent one week at the Mycological Institute, Herbarium of Kew Gardens, England, in the identification of different soybean leaf diseases.

Additional UZ participants were Mr. Peter Hopkins, Chief Technician of the Faculty and Mr. Robert Berry, manager of the newly purchased university farm. Mr. Hopkins visited at MSU and PSU to become acquainted with new techniques and equipment being used in classroom instruction, as well as how laboratory equipment is maintained in US universities. The program for Mr. Berry was arranged to show him how university farms at two US universities are organized, financed, and operated, and how research and instruction can be integrated with the general activities of a university farm.

Contract leave support for three senior staff is being planned for late 1984 and early 1985. The specific staff involved are Dr. Kingston Nyamapfene, Chairperson of Land Management, Mrs. Kay-Muir-Leresche, lecturer in agricultural economics, and Sister Jane Canhao, lecturer in crop science.

E. EQUIPMENT PROCUREMENT

1. Computers

Faculty of Agriculture representatives spent much of 1983 in a series of committee meetings to assess the computer needs of the several departments. They eventually came to a consensus and identified their requirements in terms of microcomputers. These deliberations and ensuing recommendations were passed to USAID/Harare. Unfortunately, the specifications for these computers were not in a suitable form for a bid process. Project Field Team Leader Lawton revised the specifications for the microcomputer order and applied certain justifications. Finally, in early July, the order as submitted was approved by USAID/Harare and sent on to AID/Washington. Because of a breakdown of the mail distribution system in AID, the set of specifications was returned to Zimbabwe unopened 5-6 weeks later. A resubmission of the specifications to AID/Washington was made in mid-August and approval for bidding and purchase was obtained on September 8. An estimate of the cost of the computers, software packages, and extra printer ribbons, papers, ink, etc. is about US \$154,000.

2. Vehicles

Four vehicles, one Datsun station wagon, and three Toyota 4-wheel drive pick-ups purchased with USAID funds not included in the MSU/PSU contract, were delivered to the Faculty of Agriculture (the pick-ups in July and the wagon on August 10) with appropriate designations. One pick-up was assigned to each department, while the station wagon is to be used jointly by the Faculty and the MSU/PSU Project group.

3. Laboratory Items

Prior to the initiation of the Project, the Faculty of Agriculture had made an extensive review of equipment needs for its expanding teaching and research. At the request of Dean M. Blackie and with the approval of the three department chairpersons, the Field Team Leader organized and assembled the submitted equipment specifications so they could be put out for bid by the MSU purchasing department. USAID/Harare approved the major order of US \$314,068 on August 16 and this finalized order was mailed to MSU on August 21. A second order of equipment involving justification for specific model/make purchase of US \$79,200 and requiring proprietary waivers from AID/Washington. They approved the request of the Faculty of Agriculture for 11 microcomputers and associated software on September 17. This order, under an accompanying PIO/C from USAID/Harare, was sent to MSU in early October.

F. OFFICIAL VISITORS TO THE PROJECT

Dr. Dean Jansma, Director
International Agricultural Programs, PSU April 19-22, 1984

Dr. Dale Harpstead, Chairperson,
Crop & Soil Sciences Department, MSU April 25-28, 1984

Dr. Donald R. Isleib, Director
Institute of International Agriculture, MSU May 13-19, 1984

Mr. Thomas Stilwell, Microcomputer Specialist
Agricultural Economics, MSU June 6-9, 1984

Dr. Terence Podmore, Irrigation Engineering,
Colorado State University September 4-5, 1984

Dr. Carl Eicher, Professor
Agricultural Economics, MSU September 10-15, 1984

Dr. Steve Buccola, Professor
Oregon State University September 10-29, 1984

G. LEAVE RECORDS FOR LONG-TERM STAFF AND OFFICE PERSONNEL

	<u>Vacation</u>	<u>Days of Leave</u>	
		<u>Sick</u>	<u>Legal Holidays</u>
K. Lawton	3	0	6
J. Rosenberger	2	0	1
J. MacNeil	0	0	1
V. Winkfield	7	0	0
M. Hutchison	0	0	0

II. ON-CAMPUS SUPPORT

A. OVERVIEW

Project support at MSU and PSU is provided by experienced professionals who serve specific roles in support of the work in Zimbabwe. At MSU, Dr. Kim Wilson is Project Coordinator; Dr. H. Paul Roberts is Program Administrator; and Ms. Annie James is Project Secretary. Ms. Ardell Ward, Administrative Assistant has provided counsel and support in the areas of participant programming and equipment procurement. Her services are provided by the Institute of International Agriculture; all project staff are members of the

Institute. At PSU, project coordination is provided by Dr. J. Dean Jansma, Director of International Agricultural Programs, the Administrative Assistant is Ms. Judy McCormick. Additional clerical services, when appropriate are provided by that office.

The campus support staff has been engaged in meeting requests from Zimbabwe, processing US staff appointments, handling admissions and programs of Zimbabwean professionals on training assignments in the US, and implementing equipment procurement. Predeparture orientation has been conducted for long- and short-term staff assigned to the project. Admissions of participants to formal graduate programs and pre/post- arrival support and assistance has been provided. The itinerary, agendas, and travel arrangements for short-term trainees have been handled for a variety of professional programs. Equipment has been ordered, the bids reviewed for best combination of price and service, and arrangements have been made for inspection and shipment of the goods.

B. VISITORS TO MSU/PSU

In addition to the long- and short-term participants, people related to this project have visited MSU and/or PSU during this first six months of implementation:

Dr. Malcolm Blackie, Dean, Faculty of Agriculture, University of Zimbabwe

Mr. Robert Blair, Registrar, University of Zimbabwe

Dr. Philip Chigaru, Director, Research and Specialist Services, Ministry of Agriculture

C. CONTRACTOR ADVISORY COUNCIL

The Contractor Advisory Council is composed of the following officials in accordance with the Memorandum of Agreement between MSU and PSU for this project:

Dr. James H. Anderson, Vice Provost and Dean, College of Agriculture and Natural Resources, Michigan State University

Dr. Samuel H. Smith, Dean, College of Agriculture, Pennsylvania State University

Dr. Donald R. Isleib, Associate Dean and Director, Institute of International Agriculture, College of Agriculture and Natural Resources, Michigan State University

Dr. J. Dean Jansma, campus coordinator for the project and Associate Dean and Director, International Agricultural Programs, Pennsylvania State University

Dr. Kim A. Wilson, Project Coordinator, and Assistant Director, Institute of International Agriculture, College of Agriculture and Natural Resources, Michigan State University

One meeting of Contractor Advisory Council representatives was conducted during the reporting period. A meeting in June included Drs. Isleib, Jansma and Wilson. This was an opportunity to discuss at length the project implementation needs and operational procedures. Agreement was reached on establishing communication and management systems to meet project goals.

The second meeting of the Council will occur in early November. Dr. Roberts will also participate in this meeting. The Project Coordinator and Administrator will present status reports on all project components. Several issues which remain unresolved will be discussed and recommendations will be made for meetings in Zimbabwe

during the visit of the Project Coordinator and Project Administrator in late November and early December. Principal issues are highlighted below.

The Advisory Council has expressed continued commitment to and enthusiasm for the project. All members are fully appreciative of the excellent cooperation between staff of the several institutions involved in this important program.

III. PROJECT COMPONENTS REQUIRING ATTENTION

Some components of the project need clarification and further development. Other elements have been agreed to in principle but are not yet funded. Each needs to be defined in more detail in order to present proposals for funding.

A. ANIMAL SCIENCE SPECIALISTS

We are continuing to identify and recruit animal scientists for the long- and short-term position mentioned earlier in this report.

Because MSU/PSU have very small sheep, goat, and beef cattle programs, specialists from other universities are being sought. Discussions in Zimbabwe in November will focus on credentials of several candidates and on further clarifying immediate and longer-range needs in the Animal Science Department in the Faculty of Agriculture.

B. STAFF DEVELOPMENT PROGRAM

The contract is designed to provide usual AID support for long- and short-term participants in the US. In recent months the UZ developed

an alternate series of allowances for participants and wishes to provide their support directly. Decisions are needed soon on whether or not the UZ program, the AID provisions, or a combination of the two, will be in the best interest of participants, the staff development program, MSU/PSU, and the project. Further, a decision is needed on reallocation of any savings from the participant line item (\$433,000) that accrue based on resolution of the issues above.

C. STAFF DEVELOPMENT ADVISORY STRUCTURE

Clarification is needed on the MSU/PSU proposal to utilize UZ and MSU/PSU staff in Zimbabwe to assist with selection and advisement before, during, and after implementation of training programs of Zimbabwean professionals in the US. Included are considerations of coursework programs, research priorities and design, and whether the research should be conducted in the US or in Zimbabwe.

D. COOPERATIVE RESEARCH FUND

This operation and guidelines for \$225,000 in local currency will be drafted.

E. UNFUNDED COMPONENTS

Three components in the contract agreed to in principle, but unfunded as of yet, should be further described to request funding. These include: an additional 1-3 long-term specialists; an additional 48 person-months of short-term specialist inputs; US graduate student

program to provide assistance in instruction and conduct research, both in Zimbabwe. We believe all components are vital to project success and fostering cooperation between the UZ and MOA. These issues will be included in the November discussions.

Overall, the above components require constructive attention. Each is supportive of project, UZ and AID interests. We must develop a more comprehensive work plan to provide lead time for each activity, to reduce the time spent handling unanticipated needs, and to provide a basis for evaluating project performance.

IV. PLANS FOR THE NEXT SIX MONTHS

In the absence of a more comprehensive work plan it is difficult to identify specific activities for the next six months. Those which have been identified follow: (Please refer to Appendix B for more detail)

A. LONG-TERM SPECIALISTS

1. Dr. Robert Herner (MSU), Horticulture, arrives in early January 1985, for 18 months.
2. Dr. Steven T. Buccola (MSU), Agricultural Economics, arrives in January 1985 for 18 months.
3. We hope to place an animal scientist in Zimbabwe prior to the beginning of the academic year in March 1985. Credentials of several candidates will be reviewed in November.

B. SHORT-TERM SPECIALISTS

1. Dr. Warren Vincent (MSU), Farm Management, March 1-31, 1985.
2. Dr. William Magee (MSU), Animal Breeding/Improvement, mid-June through mid-August 1985.

C. SHORT-TERM PARTICIPANTS

1. Dr. Kingston Nyamapfene, UZ, Chairman, Land Management to PSU for month of January 1985.

2. Dr. Kay Muir-Leresche, UZ Land Management Department to Stanford and MSU, December 1984 through January 1985.
3. Sr. Jane Canhao, UZ Crop Science to Sri Lanka, December 1984 through January 1985.
4. Dr. D. D. Giga, UZ Crop Science, to Nigeria, November 26-December 8, 1984.

D. EQUIPMENT PROCUREMENT AND SHIPMENT

Will continue during the next reporting period.

E. ANNUAL REVIEW

Tentative plans for the first annual project review in Zimbabwe call for all members of the Contractor Advisory Council to meet May 1-7, 1985. Final dates will be discussed in November.

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SIX MONTH EXPENDITURE REPORT

MSU/Penn State/University of Zimbabwe
Faculty of Agriculture Expansion Project
March 31 - September 30, 1984

Line Items	MSU Expenditures	PSU Expenditures	Total Expenditures
Salaries & Wages	\$53,640.87	\$38,225.34	\$91,866.21
Fringe Benefits	11,427.36	11,739.53	\$23,166.89
Travel and Transportation Allowances	10,315.08	10,063.42	\$20,378.50
Other Direct Costs	12,841.94	26,421.94	\$39,263.88
Participant Costs	3,061.62	2,634.64	\$5,696.26
Equipment Costs	15,327.08	0.00	\$15,327.08
Indirect Costs	1,749.48	0.00	\$1,749.48
	34,188.31	21,255.35	\$55,443.66
Total	\$142,551.74	\$110,340.22	\$252,891.96

Line Items	Total Budget	Accumulated Expenditures	Remaining Funds
Salaries & Wages	\$1,586,882.00	\$91,866.21	\$1,495,015.79
Fringe Benefits	390,990.00	23,166.89	367,823.11
Travel and Transportation Allowances	460,889.00	20,378.50	440,510.50
Other Direct Costs	460,150.00	39,263.88	420,886.12
Participant Costs	180,327.00	5,696.26	174,630.74
Equipment Costs	433,660.00	15,327.08	418,332.92
Indirect Costs	627,337.00	1,749.48	625,587.52
	759,765.00	55,443.66	704,321.34
Total	\$4,900,000.00	\$252,891.96	\$4,647,108.04

FACULTY OF AGRICULTURE EXPANSION PROJECT
UNIVERSITY OF ZIMBABWE
Summary of Specialists and Participants

LONG-TERM SPECIALISTS

	<u>University</u>	<u>Field</u>	<u>Appointment</u>		<u>Months</u>
			<u>Begin</u>	<u>End</u>	
Kirk Lawton	MSU	Soil Science & Team Leader	04/01/84	03/31/86	24
James Rosenberger	PSU	Biometrics/Statistics	06/84	05/86	24
Joseph McNeil	PSU	Food Microbiology	06/84	05/86	24
Robert Herner	MSU	Horticulture-Vegetables	01/85	06/86	18
Steven Buccola	MSU (Oregon St.)	Ag. Econ.-Price Analysis	01/85	06/86	18
		Animal Science	01/85	06/86	18
(Leon Johnson)	PSU	Soil Science	04/86	03/88	24
(Larry Dawson/Jim Price)	MSU	Food Microbiology	06/86	05/88	24
(Clyde Anderson)	MSU	Biometrics/Statistics	06/86	05/88	24
(H. C. Bittenbender)	MSU	Horticulture-Fruit	06/86	12/87	18
(Stan Thompson)	MSU	Ag Econ.-Price Analysis	06/86	12/87	18
		Animal Science	06/86	12/87	18
	MSU	Irrigation-Water Management (Ministry of Lands)	10/85		18-24

SHORT-TERM SPECIALISTS

					<u>Weeks</u>
Tom Stilwell	MSU	MSTAT workshops (UZ, MOA)	08/21/84	09/10/84	3
Steve Buccola	MSU (Oregon St.)	Food security; grad program in Ag. Policy (100% on MSU Strategies Project)	09/07/84	09/30/84	3
Ev Everson	MSU	Bioenvironmental control facilities	10/28/84	11/09/83	2
Warren Vincent	MSU	Farm Management: course refinement	03/01/85	03/31/85	4

11/21/84

APPENDIX B

LONG-TERM PARTICIPANTS

	<u>Degree</u>	<u>U.S. Univer.</u>	<u>Interest Area</u>	<u>Advisor(s)</u>	<u>Start Date</u>	<u>End Date</u>	<u>Months</u>
Godfrey Mudimu Agritex - Min. Agr.	M. S.(B)	MSU	Farm Management (4 terms + 1 mo. travel)	Bernsten Eicher	09/10/84	Dec. 85	15
Kingstone Mashingaidze RSS - Min. Agr.	Ph.D	MSU	Maize Breeding	Cress Rossman	09/10/84	Aug. 87	36
Irvine Mariga RSS - Min. Agr.	Ph.D	MSU	Grain Legume Agronomy- Beans	Hosfield Kelly	09/10/84	Aug. 87	36
Pangirai Tongoona Crop Science-UZ	Ph.D	PSU	Biometrical Genetics, Plant Breeding		(08/15/85)	(Aug. 88)	36
Faith Gandiya Animal Science-UZ		MSU or PSU	Dairy Nutrition				
(A. Z. Chiteka) RSS - Min. Agr.; Head, Ground nut breeding Project	(M.Sc.)	MSU	Genetics & Plant Breeding-Ground Nuts	(T. Isleib)			
(Aidan Senzanje) Land Management-UZ	M.S.	Silsoe, UK	Soil/Water Engineering (irrigation)				
Maureen Matusa Animal Science-UZ	Ph.D	PSU	Food Science - Microbiology	McNeil			
(Simon Bright)	Ph.D.	MSU or PSU	Communications and Agricultural Extension				
(Bharat Jogi) Animal Science-UZ	Ph.D.	MSU or PSU	Swine Breeding				
Ruvimbo Chimedza Land Management-UZ	Ph.D.	U. Reading UK	Agricultural Economics				

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SHORT-TERM PARTICIPANTS

	<u>Site(s)</u>	<u>Interest Area</u>	<u>Contacts</u>	<u>Start Date</u>	<u>End Date</u>	<u>Weeks</u>
Clive Levy Crop Science-UZ	MSU, PSU Midwest	Crop Pathology, soybean Diseases	Tom Isleib; CSS; BPP	08/01/84	09/14/84	6
Pete Hopkins UZ/Chief Technician	MSU, PSU	Laboratory, teaching equipment & layout	respective depts.	09/17/84	10/10/84	3
Richard Berry UZ/Farm Mgr.	MSU, PSU	Research Farm Mgt.	Departments and Exp. Station Mgrs.	Sept. 17	Oct. 10	3
Jane Canhao Crop Science-UZ	Sri Lanka	Agr. Statistics		12/03/84	01/11/85	6
Kingston Nyamapfene Chair-Land Mgt., UZ	PSU	Soil Science	Dean Jansma	Jan. 85		2
Kay Muir-Leresche Land Mgt.-UZ	Stanford, MSU	Policy Analysis; microcomputers		11/30/84	02/19/85	8
(Dr. Norbert Ngongoni Animal Science-UZ)	MSU	Ruminant Protein Biochem. (+CVM)-Post doc.	R. M. Cook Werner Bergen	Late F84 or early W85		8-16
Cornelius Chiduzza	CIMMYT	Farming Systems		June 85	Dec. 85	30
Barbara Maasdorp	W. Australia	Pasture/Grasslands				

() = tentative

KAW:mm
11/21/84

BRIEF PROJECT DESCRIPTION

The project is based on a five-year AID contract with a budget of \$4.9 million. It is the first part of a longer-term expansion program in the Faculty of Agriculture. Michigan State University and Pennsylvania State University have agreed to share the resources and inputs needed for this program.

Staff support to the project consists of a coordinator, an administrative-professional and a secretary at both MSU and PSU. In-country support includes the Field Team Leader, administrative-professional and a secretary. Since the UZ is experienced in handling the professional and family needs of expatriates, the UZ is providing considerable assistance and facilities for the specialists, each of whom serves as a full member of his/her respective department in the University of Zimbabwe.

Key features of the project funded by contract are:

1. Long-term specialists (21 person-years): two persons back-to-back, in each of the six subject matter areas identified below. We have filled eight of the 12 positions and have alternate candidates for several of them. We have tentative candidates for two of the four remaining positions; the other two are the animal science positions (18 months each or one position for three years).
 - a. Soil Science (2 persons at 2 years each)
 - b. Agricultural Statistics/Biometrics (2 persons at 2 years each)
 - c. Food Microbiology/Animal Products (2 persons at 2 years each)
 - d. Agricultural Economics/Price Analysis (2 persons at 2 years each)
 - e. Horticulture (2 persons at 1-1/2 years each)
 - f. Animal Science/Small Livestock (2 persons at 1-1/2 years each)
2. Short-term specialists: 12 person-months are funded. The specific needs, descriptions, timing and duration for these positions are now being identified.
3. Long-term training: 20 UZ faculty will undertake graduate training, most of them for the UZ M. Phil. degree, strengthened by coursework at MSU or PSU. Some will pursue formal M.S. or Ph.D. degrees. Training may occur at other US universities as appropriate.
4. Short-term training: 10 person-months of specialized training for UZ faculty in the US and/or international research centers.
5. Teaching and research equipment: the budget includes \$627,000 for the purchase of major items to strengthen teaching and research programs.

Other program components that are agreed to in principle in the contract, but which are not yet funded, are:

1. Long-term specialists (3 positions, 18-24 months each): one two-year position in irrigation engineering has been identified by the Ministry of Lands, Rural Development and Settlement. The other two positions probably will be assigned to the Ministry of Agriculture.
2. Short-term specialists: up to 48 more person-months may be identified.

3. US graduate students: support for 12 person-years for US graduate students to conduct research and/or teach in Zimbabwe. Fields are related to the long-term positions and enables each long-term specialist to select a graduate student for the program.
4. Cooperative Research Fund: a local currency fund of about \$225,000, will support travel and research costs to foster cooperative activities among contractor specialists, UZ faculty and students, and counterpart staff of the Ministry of Agriculture.

The first three long-term specialists have arrived on schedule for two-year assignments: Kirk Lawton, Team Leader and Professor of Soil Science (MSU); Joe MacNeil, Professor of Food Science (PSU); and Jim Rosenberger, Professor of Statistics (PSU). The next three arrivals, for 18-month assignments to begin in early 1985, are: Robert Herner, Professor of Horticulture (MSU); Dr. Steven T. Buccola, Agricultural Economics; and the animal science position.

We believe the program is well-designed by UZ and blends well with the overall UZ staff development program. All contact to-date with the UZ and AID has been productive; both organizations have been very thoughtful, cooperative and professional.

KAW:mm
November, 1984