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TERMINAL REPORT

United States Agency for International Development

Contract No. AID/afr-830

October 1, 1963 - June 30, 1974

Proj. 624-11-110-743

Program of

Kansas State University

Manhattan, Kansas

at

Ahmadu Bello University

Zaria, Nigeria

August 31, 1974

Best Available Document

BIBLIOGRAPHIC INPUT SHEET

| | |
|---------------------------|-------------------------|
| 1. SUBJECT CLASSIFICATION | A. PRIMARY EDUCATION |
| | B. SECONDARY -- |

2. TITLE AND SUBTITLE
Ahmadu Bello University Project: Terminal Report, Oct. 1, 1963 - June 30, 1974

3. AUTHOR(S)

| | | |
|-----------------------------|---------------------------|--|
| 4. DOCUMENT DATE Aug. 74 | 5. NUMBER OF PAGES 25p | 6. ARC NUMBER ARC No. NI-630.711-K16g |
|-----------------------------|---------------------------|--|

7. REFERENCE ORGANIZATION NAME AND ADDRESS
Kansas State Univ.
Manhattan, Kansas 66502

8. SUPPLEMENTARY NOTES (Sponsoring Organization, Publishers, Availability)

9. ABSTRACT

Objectives of a Kansas State University assistance project in Nigeria are to assist in the development of the agricultural complex of Ahmadu Bello University; to assist in coordinating teaching, research, training, and extension functions of the complex; and to help Nigerian staff members become teachers, researchers, extension specialists, and administrators. Assistance team work focuses first on university organization and personnel development. An agricultural segment created in the new university now serves the needs of Nigeria, with teaching and research coordinated at departmental levels and departments working closely with extension services. Initially, Kansas State personnel assume senior administrative positions at the university. Research in micro-oriented agriculture has resulted in development of mechanized machinery and crossbreeding schemes. There is need for continued support in personnel guidance and development. Evaluation of the project shows that the considerable level of assistance and expertise expended in this institution-building activity is appreciated and is achieving the desired objectives.

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|-----------------------------------|--------------------------------------|
| 10. CONTROL NUMBER ARC-AAA-054 | 11. PRICE OF DOCUMENT |
| 12. DESCRIPTORS | 13. PROJECT NUMBER 620-11-110-743 |
| | 14. CONTRACT NUMBER AID/afr-830 |
| | 15. TYPE OF DOCUMENT |

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I. INTRODUCTION

In June, 1962, a Kansas State University survey team in Nigeria investigated the possibilities of assisting that African country in the development of Colleges of Agriculture and Veterinary Medicine at a new university. Thus began a program of technical assistance at Ahmadu Bello University that has been a mutually rewarding and stimulating experience for both institutions involved.

The program was funded by the United States Agency for International Development (AID).

II. OBJECTIVES

Considering the broad objectives of this project, Kansas State University personnel were to:

- A. Assist in the growth and development of the agricultural complex of Ahmadu Bello University--the assistance to include serving temporarily as staff members and/or administrative heads of units within the complex.
- B. Assist in coordinating teaching, research, training, and extension functions of the complex.
- C. Train and assist in the development of Nigerian staff members to become teachers, researchers, extension specialists and administrators.

III. HISTORICAL PERSPECTIVE

A. Survey Team

At the invitation of AID, during June and July of 1962 Dr. Glenn H. Beck and Dr. E. E. Leasure, then deans, respectively, of Agriculture and Veterinary Medicine at Kansas State University, visited Nigeria to determine the feasibility

of assisting in the development of a new university of Zaria. They recommended that AID should provide technical assistance through an American university to develop Colleges of Agriculture and Veterinary Medicine at Ahmadu Bello University.

B. Contracts AID/afr-84-295-830

On October 11, 1963, Dr. James A. McCain, president of Kansas State University, signed Contract AID/afr-84 to provide advice and technical assistance: (1) to establish a College of Agriculture and a College of Veterinary Medicine as part of Ahmadu Bello University; (2) to coordinate as rapidly as feasible research and extension with resident instruction; and (3) to train Nigerians to assume major roles in the agricultural institution as soon as possible.

A new contract, AID/afr-295, signed July 26, 1965, stated the same objectives more concisely. It specified that the "Contractor, in cooperation with the Vice Chancellor and other officials of Ahmadu Bello University and under the guidance of the Mission Director, shall continue to provide technical assistance in the development of the Colleges at the University by (1) assisting in planning and equipping of the physical plant of the colleges, (2) developing and implementing the curricula, (3) assisting with development of research programs and coordinating research with resident instruction and extension, to expedite the development of agricultural production in Northern Nigeria, and (4) assisting in training Nigerians as counterparts and/or as participants to assume major roles in the University as soon as possible."

Finally, Contract AID/afr-295, which included both Agriculture and Veterinary Medicine, was superseded by two contracts, AID/afr-707 dated January 30, 1970 and AID/afr-830 dated February 18, 1972. The agricultural aspects of the program

were assigned to Contract 830 and are summarized in this report; the veterinary medicine aspects, assigned to Contract 707, are not included. Contract 707 has a tentative completion date of 1977.

Contract 830 added a new component: to assist the Division of Agriculture and Livestock Services Training (DALST), which involved the three nondegree schools, at Samaru, Kaduna, and Kabba. Also, the contract added specific objectives for developing the Faculty of Agriculture as well as the Extension Research Liaison Section (ERLS).

C. A New University Begins

In 1960, the year of Nigerian independence, the Ashby Commission on Post-School Certificate and Higher Education suggested that a university should be created in Zaria to serve the then Northern Region of Nigeria. By July, 1961, a Vice Chancellor had been designated and in October, 1962, Ahmadu Bello University opened with slightly more than 400 students. The Northern Nigeria Legislature gave the university these objectives:

--to provide regular and liberal courses of instruction in the humanities, the sciences and other spheres of learning of a standard required and expected of a university of the highest standing.

--to promote research and the advancement of science and learning.

--to secure the diffusion of knowledge throughout Northern Nigeria.

The central core of the new university was housed on the campus inherited from the Zaria branch of the Nigerian College of Arts, Science and Technology. More than a mile away, in Samaru, was the Institute for Agricultural Research (IAR), which had recently been transferred from the Ministry of Agriculture to the University, to be the nucleus of the agricultural sector of the university.

At the Institute at Samaru, established in 1927, research on farming problems began in 1924 when a lecturer was first appointed. Originally 528 acres, the station subsequently was enlarged by purchases to 2,800 acres.

In addition to the agronomy work at Samaru, in 1928 a research station was established at Shika for livestock management and cattle breeding. A part of the Institute, this 3,000-acre facility, only five miles from Samaru, also became a part of the new university in 1962. The Institute had two other outlying stations, Kano and Mokwa. The Kano station was planned to serve the arid areas of the Northern States; the Mokwa station focused on agricultural problems of the riverain areas. A total of about 7,000 acres was available for agricultural research.

The staff of the Institute numbered about 60 specialists, mostly from Europe. Some had spent many years in Nigeria, were well versed on the agricultural problems, and were doing excellent research. A few expatriates were not interested in teaching and believed that introducing an undergraduate instructional program at the Institute would reduce the quality of research and even disrupt the Institute library. Others, of course, welcomed the idea of building an agricultural faculty divided into departments with joint research and teaching responsibilities.

Physical facilities for teaching agricultural courses left much to be desired. Because no classrooms or laboratories were available at the Institute, facilities at the main campus were used temporarily. They included two small classrooms, a laboratory for 10 students, and a small preparation room. The library was at the Institute, as were all research facilities and offices. That created a transportation problem for both students and staff, resulting in much traveling between the main campus and the Institute.

IV. COURSE OF ACTION

A. University Organization

To accomplish contract objectives, the team focused on university organization. Appendix I indicates how the Institute for Agricultural Research was organized in 1964 as an effective research unit recently brought under the umbrella of Ahmadu Bello University. Early in 1965 sections of the Institute were grouped into four departments: Agricultural Economics, Animal Science, Plant Science, and Soil Science, to form the Faculty of Agriculture.

The mandate from Nigeria to establish an agricultural education institution patterned in basic philosophy after the land-grant system was clear. The challenge facing the Kansas team was to work together with the existing research workers of IAR to create a teaching component as well as to establish a base for extension programs. In the expatriot community there was much expertise pertaining to agricultural problems of Nigeria that could be extremely helpful in the teaching program. However, few of the expatriots, many of whom had devoted most of their professional careers to research in Nigeria, were enthusiastic about being integrated with a teaching unit. Merely changing the organizational structure did not accomplish an integrated unit, but it did help toward achieving the objective.

During the ten years the contract was in force, several organizational changes took place. In 1968 a fifth department, Crop Protection, was formed and in 1970 the Department of Agronomy was added. In the 1974-75 academic year, Agricultural Engineering probably will be elevated to departmental status.

Appendix I also shows that in 1964 the Extension specialists and Demonstration units were not a part of the university nor were the nondegree Schools of Agriculture. In 1968 the Extension Research Liaison Section (ERLS) was

transferred from the Ministry of Agriculture to the University and incorporated into IAR. Also in 1968 the Schools of Agriculture at Kabba and Samaru were transferred to the University. Later the Livestock Services Training at Kaduna also came under the university umbrella.

Throughout the 10 years, other areas of Ahmadu Bello University were likewise expanding, and it became essential that a top-echelon administrator be added to coordinate all programs related to agriculture and veterinary medicine. In 1969 the position of Provost was added. Although this position originally had been suggested by the Kansas State team, it was initially funded by the Rockefeller Foundation. During 1973 and 1974 the Contractor's Chief of Party served as Provost.

In 1971 the Division of Agricultural and Livestock Services (DALST) was established to direct and coordinate the nondegree Schools of Agriculture and Livestock Training. In addition to the schools at Kabba, Kaduna, and Samaru, a School of Irrigation was established at Bakura in 1973.

Appendix II shows the organization of the total agricultural and veterinary complex as of June 30, 1974. Reporting directly to the Provost were the Dean of Agriculture, Dean of Veterinary Medicine, Director of IAR, and Director of DALST.

B. U.S. Staffing

Appendix III lists the U.S. personnel according to academic discipline and date of service who were in Nigeria for a regular two-year tour or longer. Consultants and executive visitors are listed in Appendix IV. Although this report summarizes the Agricultural program of Ahmadu Bello University, the appendices include the names of veterinarians who were part of the contracts until 1970. As stated earlier in this report, the veterinary program was

transferred to Contract 707 in 1970 and has a tentative completion date of 1977.

During the first years of the contract most of the U.S. specialists served as department heads within the Faculty of Agriculture, which was the immediate need of the new institution. Kansas State University was asked to provide department heads for Agricultural Economics, Animal Science, and Soil Science. The Director of the Institute for Agricultural Research, a Britisher, served as head of the Plant Science department. The Contractor's Chief of Party was elected Dean of the Faculty. This group of five organized a new faculty and all that entailed: staffing, curriculum - building, housing, equipping offices and laboratories, recruiting students, training them, and making plans to turn the operation over to Nigerians as soon as feasible.

Assistance was also requested from Nigeria for the Extension Research Liaison Section to give organizational direction in transferring it from Government to University. The objective here was not to adopt totally what was done in the typical U.S. land-grant institution, but to adapt what portions or aspects seemed relevant and appropriate to Nigeria.

From 1969 to 1974 Kansas State University also was requested to provide leadership and assistance for the nondegree Schools of Agriculture at Samaru, Kabba, and Kaduna. This program was eventually coordinated under the Director of the Division of Agricultural and Livestock Services Training (DALST). Curricula were modified, new buildings were constructed, student intake was increased, prestige and stature of the schools were elevated, and a fourth school was started at Bakura.

C. Deputing of Trainees

Probably the most lasting impact of any assistance program relates to the training of local personnel. At the beginning of the contract, there were very few Nigerians trained in Agriculture, but as soon as persons were employed by the University, they were considered potential candidates for overseas graduate training. That created a situation with inherent conflicts. The University kept losing its best and sorely needed staff members as they were deputed for graduate studies, and yet it was mandatory to train qualified staff members as quickly as possible so they could assume leadership roles in the new university.

D. Physical Plant Development

Classrooms and laboratories for agricultural instruction were nonexistent at first. There were excellent research facilities in some areas at IAR, but plans were needed immediately for teaching facilities. Fortunately, the British government had given the university a grant to fund the needed building construction and the contract provided monies to furnish the classrooms and laboratories with necessary equipment. Plans were developed for the new facilities by the team in cooperation with the university consulting architect. During the same period, equipment orders were finalized in Nigeria and sent to Kansas State University to be processed for eventual shipment of equipment to Ahmadu Bello University.

V. ACCOMPLISHMENTS

A. University Organization

The organization of Agriculture and Veterinary Medicine at Ahmadu Bello University is shown in Appendix II. The objectives as stated in the contract have been achieved. A viable agricultural segment created in a new university

now serves the needs of Nigeria. Teaching and research are coordinated at departmental levels. Department heads work closely with the Extension Research Liaison Section to share in the extension concerns of the six Northern States. Extension specialists and a Demonstration Unit located at the university serve the workers in the state ministries. Within the University, ERLS is organized so that it can draw upon needed resources in any discipline. The Animal Science Department, now responsible to both Faculties, can more effectively serve the needs of Nigeria.

The provost position proposed by the Kansas State team now gives leadership and coordination to all aspects of agriculture and veterinary medicine. In addition to his leadership role, the Provost is a member of these university-wide bodies and committees: University Council, Board of Governors of IAR, Board of Governors DALST, General Extension Services Board, Vice Chancellor's Advisory Committee, Academic Planning Committee, Development Committee, and University Senate. He also serves on these boards and committees within Agriculture and Veterinary Medicine: Faculty Board of Agriculture, Faculty Board of Veterinary Medicine, Standing Committee of both Faculties, IAR Professional and Academic Board, Selection Committee, Artificial Insemination Committee, and a Steering Committee for the Department of Animal Science.

Another important area of organization relates to the DALST. Nondegree Schools of Agriculture and Livestock Training, now an integral part of ABU, are structured and organized to serve a segment of the agricultural needs of the six Northern States that the Faculty does not reach. A big handicap to overcome in any nondegree training program is that both students and staff tend to consider the program one of inferior quality. Tremendous strides have been

made in upgrading the schools at Samaru, Kabba, and Kaduna. Teachers are better paid than formerly, new facilities have been constructed, curricula have been improved, administrative changes have been made and additional staff hired, enrollment has tripled, and morale has improved. The fourth school added at Bakura in 1973 concentrates on irrigation, complementing subject-matter specialities offered at the other schools.

B. Role of the Kansas State Staff

A unique aspect of the contract was that Kansas State personnel were asked to assume senior roles at Ahmadu Bello University. All taught, many served as department heads and a few as directors, some were elected deans of the Faculty, and one was Provost. The Kansas State teams worked under two outstanding Vice Chancellors at ABU: Sir Norman Alexander, who held the post until the end of 1965, and Dr. Ishaya S. Audu, who assumed leadership in April, 1966. During their tenures, both gentlemen visited Kansas State University, where they developed an immediate rapport with KSU's top leadership, who assured them that reliable top-level personnel would be deputed to help with the development of the Nigerian university.

In the ERLS the first team members were advisors, who laid the foundation for the staff-development program and prepared bulletins and printed material to assist in the extension program. They invested considerable effort in developing a detailed program of work for the entire extension program of the six Northern States. Now the ERLS is often referred to as a good example of how an effective extension program can be developed in a country where research, teaching, and a central core of Extension personnel are combined at the university but where most of the Extension agents are directly responsible to state ministries of agriculture.

Kansas State staff members were instrumental in forming the departmental structure of ABU's Faculty of Agriculture. Additional changes are anticipated as various branches of the university grow and develop. When the Nigerian Tobacco Company farm was given to ABU, the Kansas State team members guided its development into a university farm used as a facility for teaching, demonstration, and research.

In research, the Kansas State team's responsibility has been primarily one of encouraging and guiding Nigerian colleagues. Considerable research, however, was accomplished in Agricultural Economics regarding the micro-oriented approach to help understand the small farmer and consequently introduce innovations.

Mechanized machines developed under the program include bicycle cart, foot-operated rotary groundnut decorticator, hand-operated grain thresher, hand-operated Kenaf ribboner, and rotary weeder for ridge-type farming.

Research on crossbreeding schemes was initiated using the university herd. One Kansas State team member also assisted the Northern States in planning and coordinating long-range breeding-improvement schemes for each of the government livestock farms. The plan incorporates the upgrading of indigenous breeds and the using of exotic breeds for crossbreeding.

In the DALST team members have functioned as: director, principals of two of the schools, teacher, advisor, mechanic, farm manager, building-construction supervisor, and general handy man. All became so actively involved, they could set an example by doing as well as telling.

At all levels of the institution-development program, course outlines were developed and given to the Nigerian counterparts, textbooks were selected, and visual materials were gathered and prepared to make the instruction relevant to

Nigeria. When equipment from abroad arrived, it had to be assembled, often readjusted, and made operational.

The following quote is taken from the Vice Chancellor's annual report to the Ahmadu Bello University Council on May 24, 1974:

.....The USAID support to the Faculty of Agriculture/Institute for Agricultural Research phases out by 30th June this year..... Council might wish to direct that a special letter of gratitude to the USAID Authorities as well as to the Kansas State University Authorities for this valuable assistance. Of all the USAID assistance through various American Universities enjoyed by this University, this has been without any question the most outstandingly successful in my view because Kansas State University has seconded to us among the best of its own Faculty rather than shop in the floating market for staff for service in Zaria.....

C. Staff Training and Development

The real reward of an educational institutional building program is to observe trained local personnel assuming positions of responsibility and leadership. Throughout the life of the contract, 43 Nigerian participants were deputed to the U.S. for advanced studies. At the completion of the contract, 32 had returned to Nigeria; eleven were still abroad finishing their studies. Details of the participants are given in Appendix V. Unfortunately, two of the participants are deceased and five are no longer with Ahmadu Bello University, having accepted positions at other institutions. All, however, are gainfully employed in agricultural work in Nigeria.

Though trained Nigerian personnel are in all disciplines, Nigerians are not posted at every level of the agricultural complex, which would be ideal. More and more of them, however, will be promoted to top-level positions as they achieve the essential experience and maturity. Where a vacant headship exists because of the departure of a Kansas State team member, ABU has appointed either an expatriot to serve for a limited time or is seeking one to fill the position temporarily.

In the ERLS there is excellent trained Nigerian leadership and the program should continue uninterrupted. The only limiting factor is that a few of the key individuals are among the 11 participants still pursuing their studies at Kansas State University or another U.S. institution.

The DALST is functioning well also, in that the acting director is a Nigerian, as are most of the principals. They have received good training abroad, almost all in a combined program of educational administration and a subject-matter area. Most of them also have had counterpart experience and were able to work together with a Kansas State team member after returning to Nigeria.

During the ten year period, 1964 to 1974, the Agricultural complex made tremendous growth. Full term equivalent teaching positions in the Faculty increased from 6.0 to 34.5. Positions at IAR increased from 66.0 to 220.5. Teaching positions at the nondegree schools also doubled from 1969 to 1974.

D. Student Growth

In January, 1964, when the first Kansas State team members arrived in Nigeria, there were only 10 students in the Faculty of Agriculture--4 in first year and 6 in second year. In June, 1974, there were 115 undergraduates--55 in first year, 34 in second year, 26 in third year, plus 23 post-graduates.

Plans for the 1974-75 year are for 60 beginning first year students and with a few students repeating, enrollment could easily reach 65. When the second phase of the building plan is complete, it is anticipated that the first year class will increase to 96 students.

Enrollment in the nondegree programs has increased even more. There were 369 students when the first KSU advisor to the schools arrived in 1969. By

1972 enrollment had grown to 495 and by 1974 to 1,043. Projected enrollment by 1980 is 1,500.

E. Physical Plant and Equipment

At the termination of the contract, the new Faculty of Agriculture building had four lecture rooms, ranging in seating capacity from 20 to 75. There were three biological laboratories, one chemical laboratory, a reading room, and miscellaneous auxiliary rooms for practical classes. There were also 12 offices. The Animal Products building was fully operational with facilities for slaughtering and dressing animals, cold storage rooms, milk-processing equipment, and a retail sales counter. Agricultural Engineering classrooms and laboratories were housed in temporary facilities of the Institute.

During the contract, \$754,000 was spent for equipment. Some of the major expenditures were for: meat-processing equipment, cold storage room and refrigeration equipment, truck scales, livestock trailer, welding equipment, spectrophotometer, thresher, hammermill, incubators, farm machinery, and classroom and laboratory equipment.

F. Financial Summary

A summary of total expenditures for Contracts 84, 295 and 830 is given in Appendix VI.

From 1964 to 1974 the Nigerian government has generously increased its financial support to Ahmadu Bello University. Annual recurrent expenditures for the Faculty of Agriculture increased from \$64,000 to \$627,000 and in the Institute from \$1,411,000 to \$5,220,000. The 1974 operating budget for DALST was approximately 2 million dollars.

VI. Future Need

The Vice Chancellor of Ahmadu Bello University succinctly summarized the continuing needs of the university when he said that they needed not money, but experienced personnel. The immediate and urgent need when Contract 830 terminated was for a few professors who could lead and direct some of the agricultural departments while the trained Nigerian staff is gaining experience through teaching and research. Kansas State university will continue to keep one of its staff in Nigeria as a direct employee of ABU with supplemental funding from outside resources. Additional staff and graduate students may also be added under similar arrangements during the next few years to help alleviate the personnel shortage.

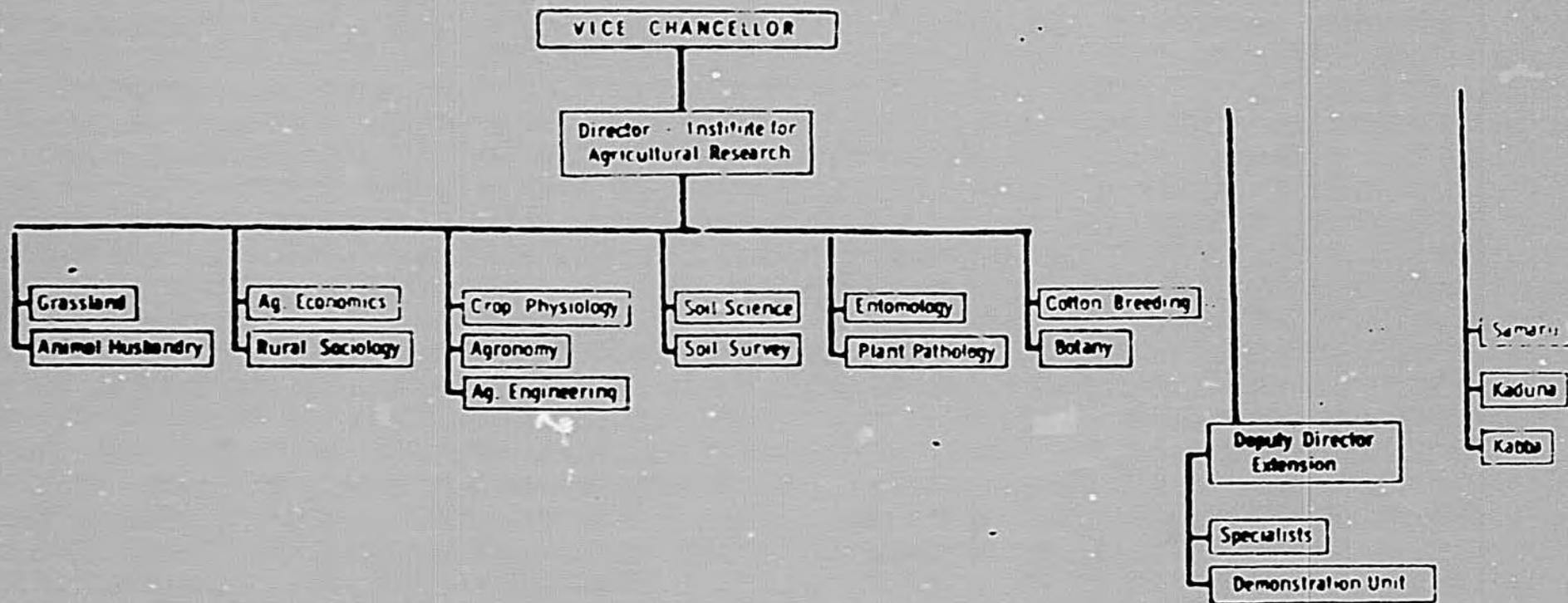
A second need of the university is for additional facilities. USAID Loan No. 620-H-017 has been approved for the second phase of the Agricultural building program and for the third phase of the Veterinary Medicine building program, but when the contract terminated the bid had not yet been awarded to a contractor. To both Faculties, if growth is expected and if they are to keep their present staff, the additional buildings are essential in providing research facilities.

VIII. Summary

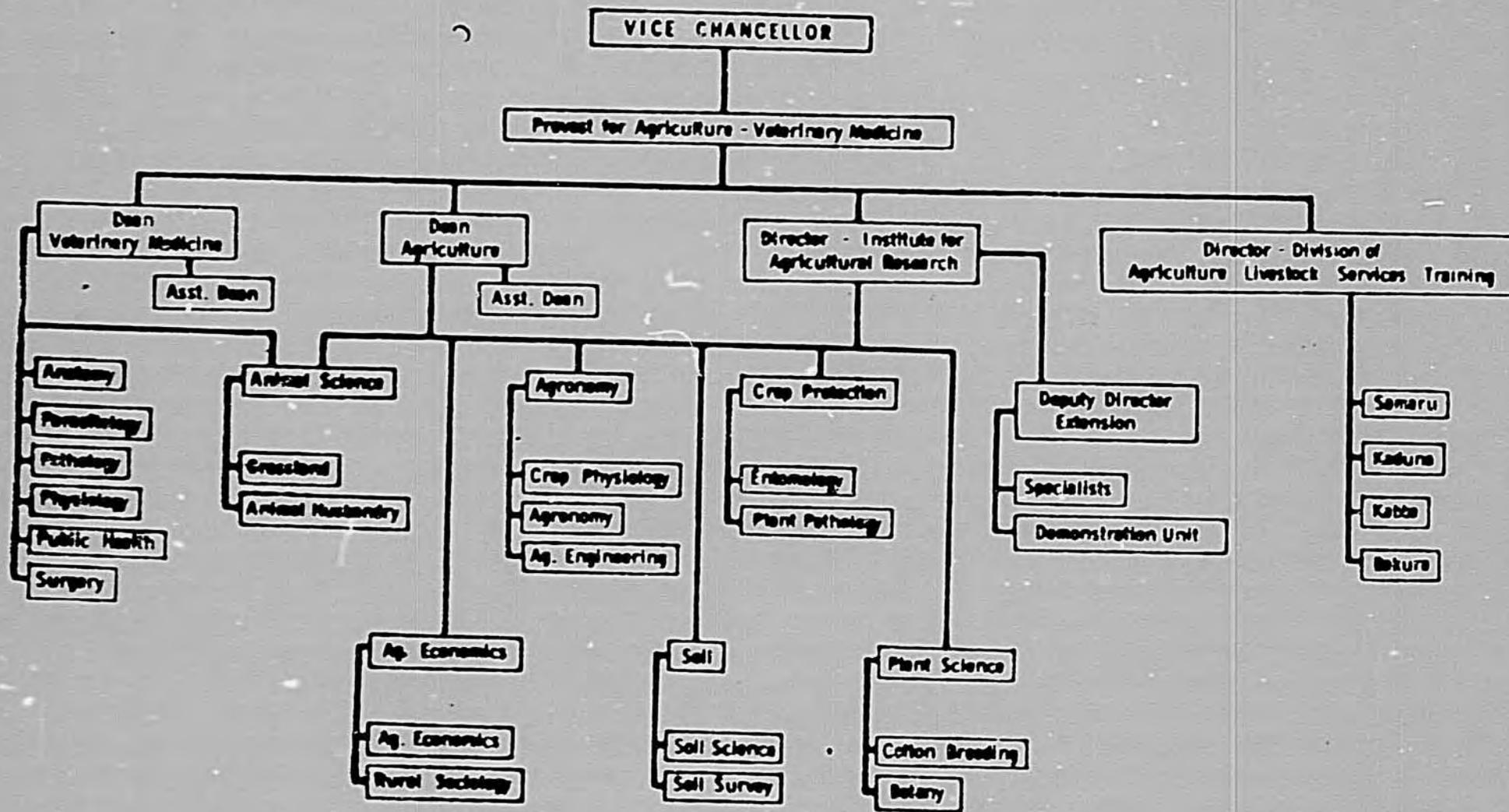
History will give the final score on how effectively Kansas State University assisted Ahmadu Bello University in Nigeria. Yet there are even now many indications that the venture was successful. The new university is busy trying to serve the needs of the people--it has the land-grant philosophy. For the Kansas State team it has been an exciting experience. The Nigerian university, which needed help, accepted assistance graciously. The Vice Chancellor was

extremely cordial to the team members and welcomed their suggestions. Without the excellent support of the Agency for International Development, this program would have been impossible. AID provided not only funds, but also considerable assistance and expertise for this institution-building activity. Special appreciation is extended to the Mission Director and his staff in Lagos.

APPENDIX I.



APPENDIX II



APPENDIX III

KANSAS STATE UNIVERSITY TEAM MEMBERS*

*Includes those with two-year tours or longer under Contracts 84, 295, and 830

| | <u>Tour Dates (at Post)</u> |
|--------------------------|--|
| CHIEF OF PARTY | |
| R. V. Olson | 2-13-64 to 12-8-65 9-20-72 to 6-30-74 (transferred to contract 707) |
| Vernon C. Larson | 1-27-66 to 7-24-68 |
| Lee T. Railsback | 7-10-68 to 7-11-70 |
| Embert H. Coles | 6-25-70 to 6-26-72 |
| ADMINISTRATIVE ASSISTANT | |
| Marvin A. Thompson | 10-15-65 to 6-30-70 |
| Floyd B. Sloat | 6-18-70 to 7-17-72 |
| Walter D. Smith | 6-23-72 to 6-22-73 |
| Stanley L. Claassen | 7-1-73 to 6-30-74 (transferred to contract 707) |
| AGRICULTURAL ECONOMISTS | |
| John B. Sjo | 9-5-64 to 7-28-66 |
| L. M. Hoover | 7-10-66 to 1-21-67 |
| David W. Norman | 9-28-68 to 6-30-74 |
| Henry Hays | 6-17-70 to 7-15-72 |
| AGRICULTURAL ENGINEERS | |
| R. M. Schneider | 8-27-65 to 7-2-67 1-7-70 to 7-7-72 |
| Harold Severance | 12-3-67 to 12-3-69 |
| George H. Larson | 7-27-72 to 7-3-74 |
| ANIMAL SCIENTISTS | |
| Berl A. Koch | 7-13-64 to 6-12-66 9-10-70 to 9-12-72 |
| L. H. Harbers | 6-5-66 to 7-1-68 |
| John D. Wheat | 6-19-66 to 6-20-68 |
| Estes Firestone | 9-25-68 to 7-21-70 |
| Bernard K. Schuman | 10-5-68 to 6-29-73 |
| T. Donald Bell | 10-4-72 to 6-30-73 (transferred to contract 707) |
| SOIL SCIENTISTS | |
| J. A. Hobbs | 7-10-64 to 7-2-66 8-4-70 to 6-28-74 |
| L. V. Withee | 7-29-66 to 6-25-68 |
| G. E. Wilkinson | 6-30-68 to 8-15-70 |
| AGRONOMISTS | |
| W. W. Worzella | 9-10-70 to 9-11-72 |
| DALST DIRECTOR | |
| Warren L. Prawl | 7-14-69 to 10-19-72 |
| Leon A. Mayer | 10-5-72 to 6-23-74 |

Appendix III (Con't)

Tour Dates (at Post)

DALST SPECIALISTS

| | |
|----------------------------|----------------------|
| Stanley L. Claassen, Kabba | 8-18-71 to 6-30-73 |
| H. Goertz, Samaru | 12-15-70 to 12-18-72 |
| Don G. Guinn, Samaru | 3-7-71 to 6-28-74 |
| Norman Schlesener, Kaduna | 2-28-71 to 6-19-73 |
| R. L. Gentry, Kaduna | 6-14-73 to 6-28-74 |
| David F. Thompson, Kaduna | 12-5-70 to 7-5-73 |

ERLS ADVISORS AND SPECIALISTS

| | |
|---------------------------|----------------------|
| Curtis Trent, Ext. | 8-6-65 to 8-3-67 |
| R. L. Johnson, Ext. | 12-27-67 to 12-29-69 |
| Chester Cromer, Ag. Engg. | 8-17-72 to 6-29-74 |
| O. R. Griggs, Livestock | 6-30-72 to 7-3-74 |
| E. S. Sumner, Irrigation | 6-23-72 to 6-30-74 |

VETERINARIANS:

| | |
|---------------------------------|--|
| G. K. L. Underbjerg, Physiology | 9-15-64 to 1-1-68 |
| M. G. Fincher, Surgery & Med. | 1-26-65 to 6-26-67 |
| P. Olafson, Pathology | 1-26-65 to 7-5-67 |
| G. E. Fackelman, Surg. & Med. | 9-29-65 to 8-22-67 |
| J. W. Adams, Pathology | 10-1-65 to 9-28-67 |
| Glenn H. Hartke, Anatomy | 1-7-66 to 6-25-70 |
| Robert C. Baugh, Anatomy | 1-7-66 to 1-8-68 |
| J. P. Sullivan, Physiology | 7-3-66 to 7-13-68 |
| J. M. Humburg, Surg. & Med. | 12-31-66 to 7-1-70 (transferred to contract 707) |
| L. Wayne Rogers, Surg. & Med. | 12-2-67 to 12-3-69 |
| Vera Rogers, Anatomy | 12-2-67 to 12-3-69 |
| Earl Moore, Pathology | 4-28-68 to 7-1-70 (transferred to contract 707) |
| John Harkness, Physiology | 9-19-68 to 7-1-70 (transferred to contract 707) |
| Chester Meinecke | 10-30-68 to 7-1-70 (transferred to contract 707) |
| Martin Robl, Pathology | 9-16-68 to 7-1-70 (transferred to contract 707) |

APPENDIX IV

LIST OF CONSULTANTS AND EXECUTIVE VISITORS*

*Includes persons under Contracts 84, 295, and 830

| <u>Short-term Consultants</u> | <u>Executive Visitors</u> | <u>Designation-KSU</u> | <u>Dates</u> |
|-----------------------------------|---------------------------|------------------------------|---------------------|
| Dr. E. M. Gerritz | | Registrar-Dean of Admissions | 3/27/64 - 3/30/64 |
| | Dr. Vernon C. Larson | Campus Coordinator | 4/10/64 - 5/10/64 |
| Dr. E. E. Leasure | | Dean, Vet. Medicine | 4/10/64 - 4/24/64 |
| Mr. T. A. Chadwick | | Architect | 9/8/64 - 10/2/64 |
| | Dr. A. D. Weber | Vice Pres. | 2/20/65 - 3/14/65 |
| Dr. John A. Nordin | | Head, Ag. Econ. | 4/1/65 - 5/10/65 |
| | Dr. Glenn Beck | Dean of Agriculture | 10/8/65 - 10/11/65 |
| | Dr. Vernon C. Larson | Campus Coordinator | 10/19/65 - 11/11/65 |
| Dr. Doretta Hoffman | | Dean, Home Econ. | 11/24/65 - 12/8/65 |
| | Dr. Glenn Beck | Vice Pres. for Agr. | 4/30/66 - 5/4/66 |
| Dr. J. E. Mosier | | Head, Surg. & Med., Vet. | 6/1/66 - 7/7/66 |
| Dr. D. M. Trotter | | Head, Anatomy, Vet. | 6/1/66 - 7/7/66 |
| Dr. H. E. Jones | | Director, Ext. Serv. | 8/1/66 - 8/31/66 |
| | Dr. C. E. Cornelius | Dean, Vet. Med. | 9/9/66 - 9/16/66 |
| | Dr. Robt. Bohannon | Campus Coordinator | 10/16/66 - 11/9/66 |
| | Dr. Glenn Beck | Vice Pres. for Agr. | 11/13/66 - 11/16/66 |
| Mr. Ralf Graham | | Asst. Ext. Editor | 5/2/67 - 6/11/67 |
| | Dr. Glenn Beck | Vice Pres. for Agr. | 8/24/67 - 9/13/67 |
| | Dr. C. E. Cornelius | Dean, Vet. Med. | 8/24/67 - 9/13/67 |
| Dr. John West | | Vet. Pathology | 10/6/67 - 1/10/68 |
| Dr. Wilfred Pine | | Agr. Econ. | 1/26/68 - 3/18/68 |
| Dr. Lee T. Railsback | | Asst. Dean, Vet. Med. | 1/8/68 - 4/14/68 |
| Dr. Roy J. Milleret | | Vet. Surgery & Med. | 1/8/68 - 4/14/68 |
| Dr. Donald Good | | Head, Animal Science | 4/1/68 - 4/30/68 |
| Dr. E. H. Coles | | Head, Vet. Pathology | 4/15/68 - 5/30/68 |
| Dr. Donald Trotter | | Assoc. Dean, Vet. Med. | 4/15/68 - 6/4/68 |
| | Dr. C. E. Cornelius | Dean, Vet. Med. | 10/9/68 - 11/1/68 |
| | Dr. Carroll Hess | Dean of Agr. | 10/14/68 - 11/14/68 |

Appendix IV (Con't)

| <u>Short-term Consultants</u> | <u>Executive Visitors</u> | <u>Designation-KSU</u> | <u>Dates</u> |
|-------------------------------|---------------------------|-------------------------|--------------------|
| Dr. Geo. Mullen | | Vet. Public Health | 1/1/69 - 4/8/69 |
| Dr. John McCoy | | Agr. Economics | 6/1/69 - 6/30/69 |
| Dr. Donald Good | | Head, Animal Science | 6/13/69 - 6/30/69 |
| Dr. Frank Carpenter | | Asst. Dean of Agr. | 7/1/69 - 9/6/69 |
| | Dr. C. E. Cornelius | Dean, Vet. Med. | 10/2/69 - 10/20/69 |
| Dr. Donald Kelley | | Vet. Pathology | 7/6/69 - 8/3/69 |
| Dr. S. M. Dennis | | Head, Vet. Pathology | 10/1/69 - 12/15/69 |
| | Dr. Vernon C. Larson | Campus Coordinator | 10/13/69 - 11/7/69 |
| Dr. E. E. Leasure | | Vet. Anatomy | 1/1/70 - 3/31/70 |
| Dr. Geo. Mullen | | Vet. Public Health | 1/13/70 - 4/11/70 |
| | Dr. R. V. Olson | Director, Intern'l Agr. | 10/6/70 - 10/31/70 |
| Dr. R. V. Olson | | Provost | 3/1/71 - 6/1/71 |
| Dr. John Wheat | | Animal Science | 1/1/71 - 5/6/71 |
| Dr. Paul Kelley | | Head, Agr. Econ. | 10/11/71-11/13/71 |
| Dr. W. H. Johnson | | Head, Agr. Engg. | 10/11/71-11/13/71 |
| | Dr. R. V. Olson | Director, Intern'l Agr. | 3/3/71 - 4/7/71 |
| Mr. Robt. Julian | | Training Coordinator | 6/13/72 - 6/28/72 |
| Dr. O. W. Bidwell | | Soil Science, Agronomy | 1/1/73 - 4/8/73 |
| | Dr. Vernon C. Larson | Director, Intern'l Agr. | 2/6/73 - 2/23/73 |
| | Dr. Vernon C. Larson | Director, Intern'l Agr. | 9/21/73 - 10/4/73 |
| Dr. Robt. Meisner | | Agr. Education | 12/29/73 - 3/31/74 |
| Mr. Gerald Hundley | | Agr. Engineering | 1/1/74 - 3/29/74. |

APPENDIX V

NIGERIAN PARTICIPANTS TRAINED IN U. S.

1964 - 1974

| <u>Name</u> | <u>Specialization</u> | <u>Degree</u> | <u>Date of Return</u> | <u>Present Position</u> |
|----------------------|-----------------------|-------------------------------|-----------------------|--|
| Abdullahi, Ango | Agronomy | M.Sc. Ph.D. Course work | 2/68 12/71 | Agronomy, ABU |
| Abifarin, A.O. | Plant Breeding | Ph.D. | 6/69 | I.I.T.A., Ibadan |
| Adedzwa, D.A. | Plant Breeding | Ph.D. Course work | | Current Participant |
| Aduku, Alfred O. | Poultry Science | M.Sc. | 12/73 | Animal Science, ABU |
| Ahmed, M.B. | Animal Science | M.Sc. Ph.D. | 6/67 9/71 | N.E. College of Technology, Maidugari |
| Ajakaiye, M.B. | Horticulture | M.Sc. Ph.D. | 6/69 | ERLS, ABU Current Participant |
| Anande-Kur, Shaiko | Soil Science | Ph.D. Course work | 6/74 | Soil Science, ABU |
| Balogun, T.F. | Animal Science | M.Sc. | 5/74 | DALST, ABU |
| Bukar, Ahmed | Range Mgt. | M.Sc. | 6/73 | DALST, ABU |
| Bungudu, L.M. | Ag. Economics | M.Sc. | 6/74 | Ag. Economics, ABU |
| Ejiga, Nathaniel O. | Ag. Economics | M.Sc. | 12/71 | Ag. Econ., ABU |
| Elukpo, Joseph A. | Statistics | M.Sc. | 1/67 | Deceased |
| Erinle, I.D. | Plant Pathology | M.Sc. | 9/70 | Crop Protection, ABU |
| Gwarzo, M.A. | Ag. Engineering | M.Sc. | | Current Participant |
| Ibanga, I.J. | Soil Science | M.Sc. | 6/74 | Soil Science, ABU |
| Ipinmidum, W.B. | Soil Science | M.Sc. Ph.D. Course work | 2/66 7/73 | Deceased |
| Johnson, Ademola O. | Animal Science | M.Sc. | 6/71 | Animal Science, ABU |
| Kaigoma, E. K. | Agronomy | M.Sc. | | Current Participant |
| Kallah, M.S. | Range Management | M.Sc. | 8/73 | DALST, ABU |
| Mayaki, Wm. C. | Crops & Soils | M.Sc. | | Current Participant |
| Musa, H.L. | Ag. Engineering | M.Sc. | | Current Participant |
| Ogbole, B.O. | Ag. Edu.-Agronomy | M.Sc. | 8/73 | DALST, ABU |
| Ogundipe, Sampson O. | Poultry Science | M.Sc. | 6/73 | ERLS, ABU |
| Olawoye, Joel O. | Ag. Education | M.Sc. | 5/73 | DALST, ABU |
| Olayiwole, Michael | Animal Nutrition | M.Sc. Course work | 12/71 | Animal Science, ABU |

| <u>Name</u> | <u>Specialization</u> | <u>Degree</u> | <u>Date of Return</u> | <u>Present Position</u> |
|--------------------|---------------------------------|---------------|-----------------------|--|
| Giogonde, O.O. | Agronomy | M.Sc. | 7/74 | IAR, ABU |
| Olugboye, M.F. | Entomology | M.Sc. | 7/74 | Crop Protection, ABU |
| Olukosi, James A. | Ag. Economics | M.Sc. | 12/72 | Ag. Economics, ABU |
| Olumeyan, Daniel | Surg. & Medicine | M.Sc. | 8/74 | DALST, ABU |
| Onazi, G.C. | Ag. Education | Ph.D. | 5/73 | Acting Director, DALST |
| Ori, David O. | Agronomy-Ag. Edu. | M.Sc. | 5/74 | DALST, ABU |
| Ori, K.C. | Ag. Engineering | M.Sc. | | Current Participant |
| Owonubi, J.J. | Soil Physics | M.Sc. | 6/74 | Soil Science, ABU |
| Petu, David | Ag. Education | M.Sc. | 9/71 | Kwara State Food Production Corp., Ilorin |
| Rotimi, G.A. | Agronomy | M.Sc. | 1/67 | Kwara State Food Prod. Corp., Ilorin |
| Salako, Froch A. | Agronomy | M.Sc. | | Current Participant |
| Shiawoya, Emmanuel | Animal Sc. | M.Sc. | 12/73 | ERLS, ABU |
| Sokomba, J.T. | Ag. Journalism- Audio-Visual | B.Sc. | | Current Participant |
| Voh, Jacob P. | Ag. Economics | M.Sc. | 6/74 | Ag. Economics, ABU |
| Wudiri, B.B. | Agronomy | M.Sc. | 9/73 | ERLS, ABU |
| Yayock, Joseph | Agronomy | Ph.D. | 7/73 | IAR, ABU |
| | | Course work | | |
| Yusuf, Yunusa | Crop Protection | M.Sc. | | Current Participant |
| Zaria, Mohammed | Ag. Journalism- Audio-Visual | B.Sc. | | Current Participant |