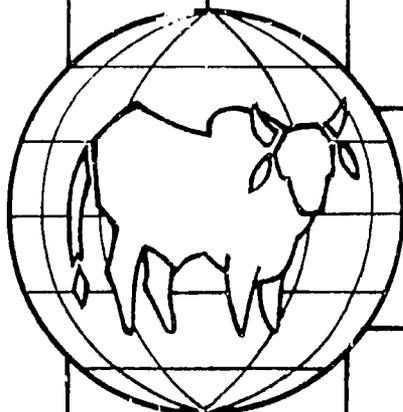
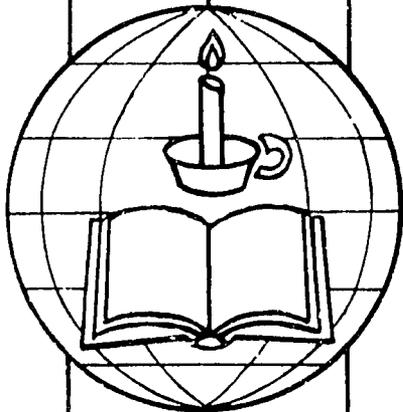
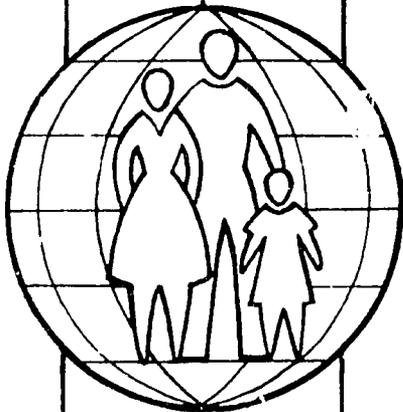
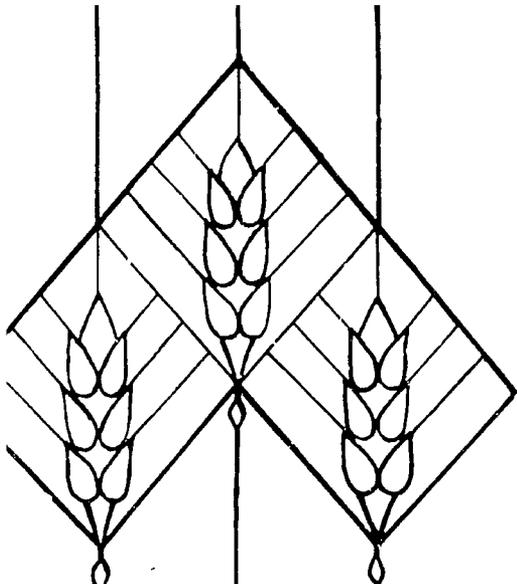


PW-AR-576

International Directory of Agricultural Education Institutions



Volume I: Africa

Burton E. Swanson

with

Maxwell Nkajimeje

Vickie Sigman

Jaffar Rassi

Timothy Koehnen

Bureau of Educational Research
College of Education
University of Illinois at Urbana-Champaign

INTERNATIONAL DIRECTORY
OF
AGRICULTURAL EDUCATION INSTITUTIONS
VOLUME I: AFRICA

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with
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July, 1981

TO ORDER THE INTERNATIONAL DIRECTORY

The International Directory of Agricultural Education Institutions is being published as a three volume set. All agricultural education institutions included in the directory will receive a complimentary copy of the volume for their respective region. Since only a limited number of copies have been printed, complimentary copies will be limited to libraries in developing countries. Individuals in these countries may have their library request a free copy of the directory so it will become part of the library's regular collection and more widely available to potential users.

All other institutional and individual requests should be accompanied by a check or money order made payable in U.S. dollars to the University of Illinois, to cover printing, postage and handling charges. The cost of each volume is the following:

Volume I - Africa	U.S. \$ 5.00
Volume II - Latin America	5.00
Volume III - Asia	10.00
The Three Volume Set	<u>\$20.00</u>

All requests should specify which volume(s) is being ordered and should be sent to:

International Agricultural Education Directory
357 Education Building
University of Illinois at Urbana-Champaign
1310 South Sixth Street
Champaign, IL 61820 U.S.A.

This publication has developed from an activity of the University of Illinois Strengthening Grant Program which is supported by funds from the United States Agency for International Development and the University of Illinois. The principal purpose of the Strengthening Grant Program is to increase the capability of the University of Illinois to work effectively on problems of agriculture, food, nutrition, and rural development in less developed countries. The contents of this report, however, are solely attributable to the authors and do not necessarily represent the views of the University of Illinois, or the United States Agency for International Development or any individual acting in behalf of the United States Agency for International Development.

PREFACE

The stimulus for this directory came during the World Food and Nutrition Study, which was conducted by the U. S. National Academy of Science in 1976-77. One study team investigated the problems and potentials for educating and training agricultural research and extension personnel to work in national programs. The gross lack of information about the educational capacity of Third World institutions pointed to the need for a study of this type.

The research project began in August, 1978 with research support being provided by the College of Education at the University of Illinois. Since little was known about the intermediate-level institutions, the decision was made to begin identifying and collecting data from these schools of agriculture.

One major definitional problem was establishing criteria for intermediate level educational institutions. Generally the criteria used were those institutions that prepare students for positions in the fields of agriculture, veterinary medicine, fisheries, forestry and home economics, but at an educational level less than the first university degree (i.e. Bachelor of Science). Generally, the institutions included are two or three year post-secondary educational institutions. However, some countries have three year technical high schools (secondary level) that offer specialized training in one or more of the designated fields of study. If students take paraprofessional and technical jobs in the agricultural sector after completing their studies, then these institutions are also included in the directory.

Identifying these intermediate educational institutions was a difficult and imprecise task since there are no published lists for many countries. Furthermore, the Food and Agriculture Organization's (FAO) lists for Africa and the Middle East were more than a decade out of date. Therefore in compiling the institutional lists from multiple sources we sometimes had the same institution listed three times under three different names. In a number of countries we worked through United States Agency for International Development (USAID) or U.S. Embassy personnel to validate these lists.

Data collection for the intermediate-level study began in 1979, followed by the higher education phase of the study which was initiated during the summer of 1980. Unfortunately the data for the intermediate and higher level educational institutions is not based on the same year, but the lack of resources during the first two years of the research prevented surveying both sets of institutions simultaneously.

The survey of agricultural education institutions was accomplished with two questionnaires. The intermediate-level questionnaire was printed in English, Spanish, French and Portuguese, while the higher education questionnaire and supporting research materials were only published in English, Spanish and French. Three follow-up letters were sent after the original mailing to insure a high response rate.

A number of problems were encountered during data collection. First, because some institutions have been up-graded and changed their institutional names, they received multiple copies of the questionnaires. Second, because some universities offer non-degree educational programs, all were sent the intermediate questionnaires in 1979, followed by the higher education questionnaire in 1980. This created considerable confusion for a few institutions. On the other hand, the research team only identified the names of some educational institutions late in the study, therefore, these institutions are included in the country list, but were never surveyed. Finally a number of problems were encountered with the postal system which created delays and confusion. For example, one major mailing of questionnaires was apparently lost or never delivered. Other questionnaires were returned because of suspended mail service to a country or due to incorrect/inadequate addresses. In a few cases we learned directly or indirectly that an institution had been closed or converted to a different purpose. Even as this directory goes to press, we are receiving additional questionnaires that are too late for the directory but that will be included in the data base.

In conclusion, this directory represents a first step at inventorying the educational resources of Third World countries and their capacity to train personnel for their agricultural development programs. It is recognized, however, that there are numerous omissions and inaccuracies in the directory that were simply beyond the control of the research team to correct. To improve upon this directory and data base, each institution is requested to review the descriptive statement, the list of educational institutions for their country and the specific data for their institution, and to return corrected or up-to-date information. This information will be used in compiling a more complete and accurate second edition in the future.

ACKNOWLEDGMENTS

Many people contributed to the success of this first International Directory of Agricultural Education Institutions. First, I would like to thank the many individuals in the participating educational institutions who took the time to provide accurate information for the directory. Their willingness to share this information is greatly appreciated. Hopefully this directory will stimulate further educational exchanges.

Many individuals at the University of Illinois played an important role in making this study possible. First, the study could not have been completed without a three year appointment in the Bureau of Educational Research. This appointment provided a reduced teaching load and some research support. In particular I wish to thank J. Myron Atkin, former Dean of the College of Education, Rupert Evans, former Chairman of the Department of Vocational and Technical Education, and Paul Hemp, Chairman of the Agricultural Education Division, for giving me the opportunity to pursue this research. Next I wish to thank Orville Bentley, Dean of the College of Agriculture for cooperating with me on the higher education portion of the project. Finally I wish to thank William N. Thompson and Earl D. Fellogg, Representative and Associate Representative respectively, of the Title XII Strengthening Grant Program for their encouragement and support of this study.

Finally, I wish to thank the many skilled members of the research team who helped compile the information included in this directory. First, Vickie Sigman took the leadership for data collection and she was assisted by Tim Koehnen. Dr. Jaffar Rassi, visiting scholar in the Bureau of Educational Research, and Maxwell Nkajimeje processed the data for publication and analysis. Carolyn Sands, Tim Koehnen and Andi Dunn prepared the descriptive summaries of the educational systems in Africa, Latin America and Asia, respectively. Others who assisted in the earlier stages of the project include Rosemary Sutton, Margie Inana, Laura Newman, and Robert Morin. Joan Neef expertly typed the many labels, questionnaires and letters used in data collection as well as most of the institutional summaries. Terry Piazza prepared the address list of educational institutions by country and Carma Die! provided the administrative support to keep the process moving smoothly. The cover design was created by Julia Taugner of Vocational Agricultural Service. I wish to thank each of them for their cooperation, patience and support during this project.

Burton E. Swanson
Champaign, Illinois
July, 1981

References Used In Preparing National Education System Summaries

To provide the reader with a contextual framework to understand how agricultural education institutions are organized in each country, a brief summary has been prepared for each national education system. A variety of sources were consulted in preparing these summaries, however, the primary source(s) is listed after each summary. The following references were particularly useful in preparing these summaries and should be consulted for more detailed information on these national education systems.

The International Encyclopedia of Higher Education, Asa S. Knowles, Editor-in-Chief, San Francisco: Jossey-Bass Publishers, 1977.

AACRAO World Education Series, American Association of Collegiate Registrars and Admissions Officers, Washington, D. C.

Kurian, George Thomas, Encyclopedia of the Third World, New York: Facts on File, 1978.

Commonwealth Universities Yearbook 1980, published by The Association of Commonwealth Universities, London: 1979.

International Handbook of Universities, published for the International Association of Universities by Walter De Gruyter, Berlin and New York: Seventh Edition, 1978.

The World of Learning, 1980-81, London: Europa Publications Limited, 1980.

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DEMOCRATIC AND POPULAR REPUBLIC OF ALGERIA

Since independence in 1962, the Algerian educational system has undergone considerable change in response to the need to educate as many people as possible to replace the expertise lost when French nationals returned to France; and to promote literacy in Arabic, the spoken language of the people. Education has been a primary concern of the government which has created an educational system that is free, compulsory and accessible to all. Efforts have been fruitful as the student population grew impressively between 1962-1977. In 1962 there were 771,000 primary students, while in 1977 it was estimated that the number rose to 2,750,000. The number of university students rose from 3,700 to 54,000 during the same period.¹ At the present time the school system is in a transitional state as the Higher Education Reforms of 1971 are put into effect. The government anticipates that the changeover to the new system will be completed by 1985.

Elementary Education

The process of replacing the traditional six to seven year primary program with a nine-year program dictated by the new system is now underway. Children must attend school from six to sixteen years of age, although a preschool program consisting of nursery school and kindergarten is planned. All instruction is in Arabic with French being introduced as a foreign language in the third year. Upon successful completion of the primary program, students earn a brevet which allows them to continue into a secondary education program. When the new system is in effect, students will attend primary school for nine years, which will incorporate both primary and middle school level instruction.

Secondary Education

Under the new system, the secondary program is three years in length. Students enroll in either a technical program earning a diplôme de technicien or follow an academic track in a lycée. Students enrolled in lycees may earn a baccalauréat in three subject areas, general, technical and commercial.

Higher Education

Opportunity for higher education in Algeria has expanded greatly since 1962. The number of institutions has increased from a single university to six universities. In addition, there are six institutes which teach specialized subjects, and a university center, which will become, in time, a university in its own right. A complete range of studies is offered by four Algerian universities: the University of Algeria, the University of Oran, the University of Constantine, and the University of Annaba. Science and technology are stressed in the University of Sciences and Technology of Algiers and the University of Science and Technology of Oran. The licence, or first undergraduate degree, can be earned in three years, although some fields of study may require four. Advanced degrees through the doctoral level can also be pursued. Students seeking university admission must possess a baccalauréat. Entrance examinations are given for applicants without the baccalauréat but who have completed secondary schooling. All may attend a university, providing admission qualifications are met. There is no age limit, and education is financed by the state.²

Additional postsecondary educational opportunities exist. Two-year diplomas can be earned in the University Center of Tlemcen. Four institutes train students in secondary teaching, veterinary medicine, agriculture and telecommunication. Students wishing to study agriculture attend the Institut national agronomique. The diplôme d'ingénieur agronomie is awarded upon completion of the course, and students may continue advanced work through the doctoral level. Government ministries also train individuals in special institutes to fill specific positions.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v., "Democratic and Popular Republic of Algeria."

² AACRAO World Education Series, Algeria, by Dave W. Mize, 1978.

AGRICULTURAL EDUCATION INSTITUTIONS IN ALGERIA

Directeur
Ecole Nationale Veterinaire
Avenue Hacene Badi, El-Harrach
Algiers 10e
Algeria
North Africa

Directeur
Institut de Technologie Moyen Agricole
Boukhalfa, Tizi Ouzou
Algeria
North Africa

Directeur
Institut Nationale Agronomique (INA)
12, Avenue Hacene Badi, El-Harrach
Algiers 10e
Algeria
North Africa

Directeur
Centre National d'Animatrices Rurales
Domaine Bouchaoui
Cheraga, Algiers
Algeria
North Africa

Directeur
Institut de Technologie d'Horticulture
Ain Chrob, Via Taya
Algeria
North Africa

Directeur
Institut de Technologie Agricole Moyen
Km. 7, Route de Setif
Constantine
Algeria
North Africa

Directeur
Institut de Technologie Moyen Agricole
B.P. 62
Ain Tenouchent
Algeria
North Africa

Directeur
Institut de Technologie Agricole
d'Application Pedagogique
9, Chemin Cheikh Bachir Brahimi
El Biar, Algiers
Algeria
North Africa

Directeur
Institut de Formation de P.E.M.
Ben-Ahoun
Alger
Algeria
North Africa

Directeur
Ecole d'Agriculture
Institut de Technologie Moyen Agricole de
Production et Sante Animale
Guelma
Algeria
North Africa

Directeur
Institut de Technologie Forestiere
Chemin de la Femme Experimentale
Batna
Algeria
North Africa

Directeur
Institut de Technologie des Cultures forestieres
et Fourrageres
Route de Teniet El-Had
Khemis Miliana
Algeria
North Africa

Directeur
Institut de Technologie Moyen Agricole
Rue des Ecoles
Bougara
Algeria
North Africa

Directeur
Institut de Technologie Agricole
Avenue Hocine Hamadou - B.P. 120
Mostaganem
Algeria
North Africa

Directeur
Institut Technologique d'Agriculture Saharienne
Route de Ghardaia, B.P. 163
Ouargla
Algeria
North Africa

Directeur
Institut de Technologie de Cerealiculture
Route des Fermes Bousselam
Setif
Algeria
North Africa

Directeur
Institut de Technologie Moyen Agricole
de Production et Sante Animale
Route de Tlemcen
Side-Bel-Abbes
Algeria
North Africa

Directeur
Institut de Technologie Agricole
Skikda
Algeria
North Africa

Directeur
Institut de Technologie d'Arboriculture
Mansourah, Route de Maghnia, B.P. 110
Tlemcen
Algeria
North Africa

GENERAL INFORMATION:

Name: Institute de Technologie Moyen Agricole

Mailing Address: Production Agricole et Vulgarisation
B. P. 62
Ain Temouchent

Send in- Algeria
quiries to: Directeur General

Year established: 1927

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3	3	1	7
Teaching	11	8		19
Technical	2			2
Total	16	11	1	28

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	176		176

Minimum years of education required for entrance: 10 years

Qualifications awarded: Diplôme Technicien d'Agriculture

Graduates by Curricula in 1978:	
General Agriculture	57
TOTAL	57

Language(s) of instruction: Arabic

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	2
Teaching in Schools.....	7
Technical staff at an educational or research institution.....	15
Agric.development bank,cooperative,etc.	1
Agri-business firms.....	75
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	100%

GENERAL INFORMATION:

Name: Institute de Technologie Agricole Moyen

Mailing Address: Route des Fermes
SETIF
Constantin

Send in- Algeria
quiries to: Directeur General

Year established: 1971

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	11		1	12
Teaching			22	22
Technical	20			20
Total	31		23	54

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	276		276

Minimum years of education required for entrance: 10 years

Qualifications awarded: Diplôme de Technicien de l'Agriculture

Graduates by Curricula in 1978:	
Agriculture General	35
Gestion Cooperative Contabilité	160
TOTAL	195

Language(s) of instruction: Arabic and French

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	
Teaching in Schools.....	
Technical staff at an educational or research institution.....	
Agric.development bank,cooperative,etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	100%

ANGOLA

Angola is attempting to cope with many educational problems created by the years of Portuguese rule and the subsequent political difficulties which have occurred since independence was achieved in 1975. A dual educational system, divided on the basis of race, was in effect at the time of independence, with Africans receiving a far lower level of education than whites and assimilados. A shortage of teaching staff exists, especially at the university level, due to the exodus of Portuguese at the time of independence. The educational system is based on the Portuguese model and instruction is given in Portuguese. The description given below is based on the educational system as it was in 1975. On-going political changes will be reflected in the educational system at all levels.

Elementary Education

In 1975, primary education was divided into two systems; the standard primary schools for whites and assimilados located primarily in the metropolitan areas; and the "adaptation" education (ensino de adaptação) given to rural Africans. The state and private run, standard primary programs were four years in length, free and compulsory for children between seven and twelve years of age. In contrast, African adaptation programs were conducted by Catholic missionaries whose instructions were to facilitate assimilation and Portugueseization of the Blacks. Inadequate staff and poor facilities provided only a second grade level of education for Black African children. If an African parent wished to transfer a child to the first grade in a standard primary school after completing the native school, tuition would be charged. Transfer was also made more difficult because instruction was given in Portuguese.

Secondary Education

The secondary program was offered by state run schools or in private institutions operated by Catholic missionaries. Programs leading to higher education, teacher training or vocational and technical skills were available at the secondary level. The lyceum, or traditional academic education program, was seven years long and separated into three cycles: the primeiro ciclo, or first cycle, was two years long; the segundo ciclo, or second cycle, was three years long. A carta do curso geral dos liceus (General Educational Certificate) was awarded at the end of the second cycle. The third, and final, cycle (terceiro ciclo) was two years long. Students passing the final examination earned the carta do curso complementar liceus (Certificate of Secondary Education). Technical and vocational training was offered in various schools in the areas of commerce, industry, technology, crafts and trades, and agriculture. Teacher training was provided by schools which prepared primary level teachers in programs of two to four years beyond primary school. Until 1975, secondary school teachers normally received their training abroad.

Higher Education

The University of Luanda was established in 1969 to train qualified individuals to develop Angola's natural resources. As a result, the university program was technically oriented. Students could study engineering, geology, mining, agronomy, medicine, education and veterinary medicine, provided they passed an entrance examination and possessed a Certificate of Secondary Education (carta do curso complementar liceus). Degrees through the doctoral level were reciprocal to higher education degrees in Portugal. A bacharel was awarded after three years of study; a licenciado after five, and a doctorate after an additional two or three years. Higher level agricultural education was offered in the regular degree programs noted above.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v., "Angola."

AGRICULTURAL EDUCATION INSTITUTIONS IN ANGOLA

Doyen
Faculdade de Ciências Aerárias
Universidade de Luanda
University of Angola
Caixas Postal 236
Huambo
Angola
Central Africa

Doyen
Faculdade de Medicina Veterinária
Universidade de Luanda
Caixa Postal 340
Huambo
Angola
Central Africa

Doyen
Faculdade de Agriculture y Forestry
University de Luanda
Caixas Postal 815C
Luanda
Angola
Central Africa

PEOPLE'S REPUBLIC OF BENIN

Historically, Benin's educational system has been based on the French model established during the country's years as a French colony. Upon gaining independence in 1960, the government initiated an expansion of the educational system to better educate the masses. By 1973, however, the decision was made to reform the existing system to eliminate the elitism felt to be present in the French system and to reorganize the system to better serve the country's needs. These reforms are taking place at a gradual rate, however, and the school retains much of the original French character.

Elementary Education

Under the traditional system, primary education lasts six years. It is free and intended to be compulsory. The student is awarded the certificat d'études primaires élémentaires at the end of primary study. When the reformed system is functioning, children will spend two years in a nursery school and five years in a basic school which together with a six-year secondary program, will make up the first level, or premier degré. The second level, or second degré, will consist of higher education.¹

Secondary Education

Secondary education prepares students for further academic work or for employment. Two cycles make up the secondary program, the first cycle of four years leading to the brevet d'études du premier cycle. The second cycle consists of several programs, one leading to the baccalauréat, required for university admission, and a second resulting in technical and vocational training. Lycées and collèges d'enseignement général provide general secondary training. The reformed system calls for a six-year program to consist of two, three-year cycles in either a middle school or a comprehensive polytechnic school.

Higher Education

The National University of Benin located in Cotonou provides university level education. The degrees awarded by the University closely follow the French system. The baccalauréat, its equivalent or sitting for a special entrance examination will admit a student to the University. The reformed system will admit students who have completed either middle or polytechnic school and workers trained by a special adult education program.

Areas of study offered by the University include education, science, law, economics, medicine, the humanities, linguistics and agriculture. After two years of study the student is awarded the DEEL (diplôme universitaire d'études littéraires) in humanities or the DUES (diplôme universitaire d'études scientifiques) in the sciences or agronomy. A third year of study leads to the licence, the first degree, and completion of the fourth year leads to a maîtrise. Students pursuing a career in agriculture first earn the BBFS. An additional year of study leads to the diplôme d'agronomie générale, and a fourth year results in the diplôme d'ingénieur agronome (diploma of agricultural engineer). The reformed system will restructure university programs and tie them more closely to development needs by introducing practical experience in the degree programs.

In addition to the University, there are postsecondary teacher training institutes and an intensive adult education program to promote literary and practical training focused primarily on agriculture. The development of educational opportunity in the rural areas will also be highly important.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v., "People's Republic of Benin."

AGRICULTURAL EDUCATION INSTITUTIONS IN BENIN

Doyen
Faculte des Sciences Agronomiques
Universite Nationale du Benin
B.P. 526
Cotonou
Atlantique
Benin
West Africa

Directeur
Lycee Agricole Medji
de Soukou Allada
Benin
West Africa

Directeur
Complexe Polytechnique Agricole
B.P. 123
Porto Novo
Benin
West Africa

Directeur
Complexe Polytechnique Agricole I
Ina
Province du Borgou
Benin
West Africa

GENERAL INFORMATION:

Name: Faculté des Sciences Agronomiques
 University Nationale du Benin
 Mailing Address: B. P. 526
 Cotonou, Atlantique
 Republic Popalar du Benin

University Established in 19 70

Faculty Established in 19 70

Source of Financial Support:
 Budget National du Benin

Send in-
 quiries to: Le Doyen

Language(s) of Instruction:
 Francais

Institution accepts foreign students for:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes

Degrees and Qualifications Awarded:
 Diplome D'ingenieur Agronome

The Academic Year begins in 15 février
 and ends in 15 Décembre

Minimum Entrance Requirements
 for First Degree program:
 Remplir les conditions exigée par
 notre universite

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	<u>192</u>	<u>12</u>	<u>204</u>
Advanced Degree Students	<u>5</u>	<u>1</u>	<u>6</u>
Total Number of Full-time Students	<u>197</u>	<u>13</u>	<u>210</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Sciences Agricoles		13	1
Elevage		1	
Enseignement Agricole et Vulgarisation		2	
Total No. Graduates		16	1

FACULTY AND DEPARTMENTS

Academic Departments

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. degree or Equivalent	_____	_____
Ingenieur Agronome	<u>2</u>	<u>23</u>
M. Sc. Degree or Equivalent	<u>10</u>	_____
Doctoral Degree	<u>12</u>	_____
Total Number	<u>24</u>	<u>23</u>

GENERAL INFORMATION:

Name: Complexe Polytechnique Agricole

Mailing: B. P. 128
 Address: Niveau 1 de Porto Novo
 Porto Novo
 Republic Popular du Benin

Send inquiries to: Directeur du CPA: Porto Novo

STUDENTS AND CURRICULA:

1978/79	Male	<u>127</u>
STUDENT	Female	<u>14</u>
ENROLLMENT:	Total	<u>141</u>

Minimum years of education required for entrance: 6 years

Qualifications awarded: Brevet d'Enseignement Agricole Tropical B-E-A-T

Graduates by Curricula in 1978:

	<u>26</u>
	<u> </u>
	<u> </u>
	<u> </u>
TOTAL	<u>26</u>

Year established: 1914

Source(s) of Support:	Budget National			
STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>14</u>	<u> </u>	<u> </u>	<u>14</u>
Teaching	<u>10</u>	<u> </u>	<u> </u>	<u>10</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>24</u>	<u> </u>	<u> </u>	<u>24</u>

Language(s) of instruction: Francais

Duration of courses: 4 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>6</u>
Teaching in Schools.....	<u>6</u>
Technical staff at an educational or research institution.....	<u>16</u>
Agric. development bank, cooperative, etc.	<u>4</u>
Agri-business firms.....	<u>5</u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>14</u>
... Fisheries.....	<u>16</u>
... Forest & Water.....	<u>33</u>
	<u>100%</u>

BOTSWANA

The educational system of Botswana consists of a seven-year compulsory primary program and a five-year secondary program, divided into two levels, a three-year junior secondary level and a two-year senior secondary level. University education is provided by the University of Botswana and Swaziland.

Elementary Education

Botswana's seven-year primary education program is compulsory. However, the mandate for all children to attend elementary school cannot be carried out because there are no schools in some rural areas.

Secondary Education

Participation in the five-year secondary program is voluntary. The secondary course of study is divided into two portions, the three-year secondary level which culminates in the Junior Certificate of Education, and the two-year senior secondary level. Upon satisfactory completion of the senior level, the student is awarded the Cambridge Overseas School Certificate at ordinary level. Additional types of training are available at the Botswana Training Center which teaches carpentry, mechanics and related vocational subjects. Colleges affiliated with the university also train primary teachers in two and three-year programs and may accept individuals with a Junior Certificate.

Higher Education

The University of Botswana and Swaziland is composed of two campuses, the University College of Botswana in Gaborone and the University College of Swaziland in Kwaluseni. Students attending the Gaborone campus may choose among three first degrees in the humanities, economic and social studies, and science. All are four-year degrees. Four post-graduate degrees are also offered, the Master of Arts, the Master of Education, the Master of Science and the Bachelor of Education, considered post-graduate because a B.A. is required to qualify for entry into the degree program. Students interested in earning degrees in agriculture, agricultural education, commerce, accounting or legal studies must attend the University College of Swaziland where these courses of study are offered. The two campuses emphasize different curricula to avoid duplication of staff and facilities.

All individuals who meet the qualifications are admitted to the University. A student with a Cambridge Overseas School Certificate at a first or second class pass may pursue a four-year degree program. Equivalent qualifications are also accepted, such as the General Certificate of Education (GCE), with a pass at the ordinary level in four subjects or the possession of a matriculation certificate or exemption from the Joint Matriculation Board of the Republic of South Africa. Students must satisfactorily demonstrate proficiency in English. Those who score at a lower level in examinations may enter the two-year diploma and certificate courses.¹

¹The International Encyclopedia of Higher Education, 1977 ed. s.v. "Botswana, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN BOTSWANA

Principal
Botswana Agriculture College
Private Bag 27
Gaborone
Botswana
Southern Africa

REPUBLIC OF BURUNDI

Since gaining its independence from Belgium in 1962, Burundi has struggled to solve its educational problems. A five-year development plan which was initiated in 1968 had as its goals: reduction of adult illiteracy; expansion of primary and secondary education programs; teacher training; and expansion of higher education. The government is committed to increasing educational opportunity and to creating a unified school system which is realistic and responsive to the needs of the country. Efforts are hampered, however, by lack of funding and political unrest created by rival ethnic groups. The Burundian school system consists of a six-year primary program, a six-year secondary program and higher level degree programs. Instruction is given in French, although plans are underway to introduce Kirundi into the primary level.

Elementary Education

The primary program is six years long and is divided into three, two-year cycles. A student receives a certificat de fin d'études (leaving certificate) at the end of the primary course. The elementary program has been reworked since independence to train students in practical skills. Instruction is given in both public schools and private, missionary schools, which are subsidized by the government. The majority of the missionary teachers are foreign nationals.

Secondary Education

The thrust of secondary education is also aimed toward employment. A student may enter the secondary program with the primary level certificat de fin d'études. Four areas of study are offered at the secondary level: the general secondary program; teacher training; technical and vocational training; and domestic science.¹ Those students who plan on entering higher education enroll in the l'enseignement secondaire général (general secondary education) course. The six-year program is divided into two, three-year segments and results in the diplôme d'humanités complètes. Secondary level study is also offered in four-year normal schools (enseignement moyen pédagogique) which trains primary teachers, and seven-year normal schools (enseignement normal) which train secondary school teachers. Students completing the enseignement normal may continue on to higher education.

Higher Education

Higher education is provided by the University of Burundi which was established in 1964. Students possessing the diplôme d'humanités complètes may enter the university. Some programs administer an entrance examination. Those students who are not qualified to enter may, upon receiving permission, attend classes and take examinations as free students. The university is made up of various faculties and institutes including: the sciences, law, and medicine and dentistry. Education and administration are also offered. The candidature, the first step toward earning a licence, is awarded after two or three years of study. A licence is given after two years of study beyond the candidature, and is not yet available in all areas.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Burundi."

AGRICULTURAL EDUCATION INSTITUTIONS IN BURUNDI

Doyen
Faculte des Sciences Agronomiques
Universite du Burundi
B.P. 2940
Bujumbura
Burundi
East Africa

Directeur
Ecole d'Agriculture de Karuzi
D/S/129
Bujumbura
Burundi
East Africa

Directeur
Institut Technique Agricole du Burundi
B.P. 61
Gitega
Burundi
East Africa

GENERAL INFORMATION:

Name: Faculté des Sciences Agronomiques
 Université du Burundi
 Mailing Address: B.P. 2940
 Bujumbura
 Burundi

University Established in 19

Faculty Established in 1975

Source of Financial Support:
 Cooperation Universitaire Belgo-Burundaise
 Ministère de L'Education Burundaise

Send in-
 quiries to: Doyen

Language(s) of Instruction:
 Francais

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
 Ingenieur Agronome

(a) Academic Degree programs Yes

(b) Educational Exchange programs No

Minimum Entrance Requirements
 for First Degree program:

The Academic Year begins in Octobre
 and ends in Juillet

Diplome de Candidat en Sciences Agronomiq.
 delivre par la Faculté des Sciences

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	<u>48</u>	<u>2</u>	<u>50</u>
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	<u>48</u>	<u>2</u>	<u>50</u>

Number of 1979 Graduates by
 Curricula and Academic Level:

Curricula	B.Sc.	Ing. Agr.	Doct.
Sciences Agricoles	10		
Total No. Graduates		10	

FACULTY AND DEPARTMENTS

Number of full and Part-time Faculty
 Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	<u>1</u>	<u>2</u>
M. Sc. Degree or Equivalent	_____	_____
Doctoral Degree	<u>5</u>	<u>14</u>
Total Number	<u>6</u>	<u>16</u>

Academic Departments

Economie Rurale

Genie Rural

Phytotechnic

Protection des vegetaux

Sciences des Sols

Zootechnie

UNITED REPUBLIC OF CAMEROON

The educational system of Cameroon is unique in that it contains elements of both the French and British models. This situation stems from the fact that from the end of World War I to 1961 Cameroon was governed jointly by France and Great Britain. At the time of independence there were no institutions of higher education. Self-rule created an immediate need for trained personnel, and a law school and national professional school were soon established. The National School of Administration opened in 1960. Today, Cameroon is served by the University of Yaoundé. One of the goals of the Cameroonian government is to create an educational system which is responsive to the country's culture and needs and which contains the best elements of both the French and the British educational systems.¹

Elementary Education

Children in both the French and British areas attend a primary program which is seven years in length. The program prepares the students for secondary level study.

Secondary Education

The secondary program in both the French and British area is seven years in length. The program is broken into two cycles: a lower, five-year cycle and an upper, two-year cycle. Upon graduation the student is awarded the Cameroon General Certificate of Education, at either the ordinary or advanced level. Both academic and technical programs are offered at the secondary level.

Higher Education

Higher education is offered both at the University of Yaoundé and a number of specialized institutes. Individuals wishing to enroll in the university must have either a General Certificate of Education at an appropriate level, a baccalauréat, qualifications equal to the baccalauréat or general certificate, or pass a special entrance examination. Students who seek to enter one of the other higher level, non-university educational institutions must fulfill similar requirements. Instruction is given in both French and English. A student may earn degrees through the doctoral level, in some fields of study. Certificates or diplomas are awarded by various faculties after two years of study. The bachelor's degree or licence is awarded after either a three or four year program, depending upon the area of study. Reforms are in progress which will standardize the bachelor's degree as a four-year program in all faculties to be followed by a doctoral degree program.

Students attending the university may study law and economics, business administration, the arts and social sciences, education, physical and biological sciences, agronomy, medicine, journalism and international relations. Those interested in agronomy enroll in the National Advanced School of Agronomy. After a two-year course taken in the faculty of science, the student earns the Diploma of General Scientific Studies. A second two-year course follows, resulting in the diplôme d'ingénieur agronome (Diploma of Agricultural Engineering) equivalent to the Bachelor of Science degree in Agronomy. Higher education in administration, physical education, communications, law enforcement, theology, insurance and the military is also available in institutions separate from the university.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "United Republic of Cameroon."

AGRICULTURAL EDUCATION INSTITUTIONS IN CAMEROON

Directeur
Ecole Nationale Supérieure d'Agriculture
Centre Universitaire de Dschang
B.P. 138
Yaoundé
Cameroon
West Africa

Directrice
Ecole Normal des Institutrices
de l'Enseignement Technique
B.P. 511
Yaoundé
Cameroon
West Africa

Directeur
Ecole Nationale Supérieure d'Agriculture
Centre Universitaire de N'kolbisson
B. P. 138
Yaoundé
Cameroon
West Africa

Directeur
Ecole Technique d'Agriculture
B.P. 189
Abong Mbang
Cameroon
West Africa

Directeur
Ecole Technique d'Agriculture
B.P. 63
Bafang
Cameroon
West Africa

Directeur
College National d'Agriculture de Bamili
Bamenda
Cameroon
West Africa

Directeur
Ecole Technique d'Agriculture
B.P. 64
Ebolowa
Cameroon
West Africa

Directeur
Ecole Pour la Formation de Specialistes
de la Faune
B.P. 271
Garoua
Cameroon
West Africa

Directeur
Ecole Techniques d'Agriculture
Maroua
Cameroon
West Africa

Directeur
Centre National de Formation
Zootechnique et Veterinaire
B.P. 56
Maroua
Cameroon
West Africa

Directeur
Ecoles des Eaux et Forets et des Chasses du
Cameroon
B.P. 69
M'bal Mayo
Cameroon
West Africa

Director
National Cooperative College
P.M.B. 12
Bamenda
N.W. Province
Cameroon
West Africa

GENERAL INFORMATION:

Name: Ecole Technique d'Agriculture
D'Abong-Mbang
Mailing Address: B. P. 189
Abong-Mbang
Cameroon

Send inquiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>25</u>
STUDENT	Female	<u>2</u>
ENROLLMENT:	Total	<u>27</u>

Minimum years of education required for entrance: 8 years

Qualifications awarded: Brevet d'Etudes Agricoles=Diplome Agent Technique d'Agriculture
Graduates by Curricula in 1978:

	<u>27</u>
	<u> </u>
	<u> </u>
TOTAL	<u>27</u>

GENERAL INFORMATION:

Name: Ecole Technique d'Agriculture
Mailing Address: B. P. 63
Bafang,
Cameroon

Send inquiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>46</u>
STUDENT	Female	<u>6</u>
ENROLLMENT:	Total	<u>52</u>

Les etudiants de la deusieme année

Minimum years of education required for entrance: 8 années

Qualifications awarded: Diplôme

Graduates by Curricula in 1978:

Agriculture Generale	<u>26</u>
	<u> </u>
	<u> </u>
TOTAL	<u>26</u>

Year established: 1962

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>2</u>	<u> </u>	<u>1</u>	<u>3</u>
Teaching	<u>3</u>	<u> </u>	<u> </u>	<u>3</u>
Technical	<u> </u>	<u> </u>	<u>1</u>	<u>1</u>
Total	<u>5</u>	<u> </u>	<u>2</u>	<u>7</u>

Language(s) of instruction: Français

Duration of courses: 1 year

EMPLOYMENT OF GRADUATES:

Percent

Government Extension Service.....	<u> </u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>100</u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

Year established: 1966

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u> </u>	<u> </u>	<u>1</u>	<u>1</u>
Teaching	<u>8</u>	<u> </u>	<u> </u>	<u>8</u>
Technical	<u>1</u>	<u>1</u>	<u> </u>	<u>2</u>
Total	<u>9</u>	<u> </u>	<u> </u>	<u>11</u>

Language(s) of instruction: Le Français

Duration of courses: 2 ans

EMPLOYMENT OF GRADUATES:

Percent

Government Extension Service.....	<u>88</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u>12</u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: College National d'Agriculture
de Bambill

Mailing: Bamenda
Address: Cameroon

Send in-
quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>88</u>
STUDENT	Female	<u>18</u>
ENROLLMENT:	Total	<u>106</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: (1) Certificats
(2) Diplomes de Techniciens Agricoles
Graduates by Curricula in 1978:

Generale Agriculture - 2 ans	<u>42</u>
Generale Agriculture - 3 ans	<u>13</u>
TOTAL	<u>55</u>

GENERAL INFORMATION:

Name: National Cooperative College Bamenda

Mailing: P.M.B. 12 Bamenda
Address: N.W. Province
Cameroon

Send in-
quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>24</u>
STUDENT	Female	<u>2</u>
ENROLLMENT:	Total	<u>26</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Certificate in Coop.
studies, Diploma in Coop. Techniques
Graduates by Curricula in 1978:

Agriculture	<u>26</u>
TOTAL	<u>26</u>

Year established:

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u>—</u>	<u>1</u>	<u>2</u>
Teaching	<u>9</u>	<u>—</u>	<u>7</u>	<u>16</u>
Technical	<u>—</u>	<u>1</u>	<u>1</u>	<u>2</u>
Total	<u>10</u>	<u>1</u>	<u>9</u>	<u>20</u>

Language(s) of instruction: English

Duration of courses: 2 & 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>61</u>
Teaching in Schools.....	<u>5</u>
Technical staff at an educational or research institution.....	<u>10</u>
Agric. development bank, cooperative, etc.	<u>7.3</u>
Agri-business firms.....	<u>2</u>
Farming or farm management.....	<u>—</u>
Entered nonagricultural employment.....	<u>—</u>
Continue their education.....	<u>—</u>
Unemployed.....	<u>—</u>
Other: Commune Rurale	<u>14.7</u>
	<u>100%</u>

Year established: 1970

Source(s) of Support: Ministry of Agriculture
and Cooperative Organization

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>	<u>—</u>	<u>—</u>	<u>4</u>
Teaching	<u>—</u>	<u>3</u>	<u>2</u>	<u>5</u>
Technical	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Total	<u>4</u>	<u>3</u>	<u>2</u>	<u>9</u>

Part-time Teachers: 6

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>7.6</u>
Teaching in Schools.....	<u>—</u>
Technical staff at an educational or research institution.....	<u>84</u>
Agric. development bank, cooperative, etc.	<u>7.6</u>
Agri-business firms.....	<u>—</u>
Farming or farm management.....	<u>—</u>
Entered nonagricultural employment.....	<u>—</u>
Continue their education.....	<u>—</u>
Unemployed.....	<u>—</u>
Other:	<u>100%</u>

GENERAL INFORMATION:

Name: Ecole Technique d'Agriculture
d'Ebolowa

Mailing Address: B. P. 64
Ebolowa
Cameroun

Send in-quiries to: Directeur

Year established: 1965 (Centre de formation Agricole
1945)

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>		<u>1</u>	<u>5</u>
Teaching	<u>5</u>			<u>5</u>
Technical				
Total	<u>9</u>		<u>1</u>	<u>10</u>

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	21
	Female	<u>9</u>
	Total	<u>30</u>

Minimum years of education required for entrance: 9 années *

Qualifications awarded: Diplome d'Agent
Technique d'Agriculture

Graduates by Curricula in 1978:

General Agriculture 24

* 11 années depuis 1981 **TOTAL** 24

Language(s) of instruction: Francais

Duration of courses: 2 ans.

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u> </u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Ecole pour La formation de
Specialistes de La Faune

Mailing Address: Boite Postale 271
Garoua
Cameroon

Send in-quiries to: Directeur

Year established: 1970

Source(s) of Support:

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>7</u>		<u>1</u>	<u>8</u>
Teaching	<u>5</u>	<u>4</u>	<u>2</u>	<u>11</u>
Technical	<u>1</u>		<u>4</u>	<u>5</u>
Total	<u>13</u>	<u>4</u>	<u>7</u>	<u>24</u>

Language(s) of instruction: French

Duration of courses: 2 years

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	104
	Female	<u>-</u>
	Total	<u>104</u>

Minimum years of education required for entrance:

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:

Aménagement de la Faune 54

TOTAL 54

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>2</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>2</u>
Unemployed.....	<u> </u>
Other: Pares Nationaux et Service de la Faune	<u>96</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Centre National de Formation
ZooTechnique et Veterinaire
Mailing Address: B. P. 56
Maroua
Cameroon

Send in-
quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79 Male 53
STUDENT Female
ENROLLMENT: Total 5

Minimum years of education
required for entrance: 13 years

Qualifications awarded: Brevet d'infirmier
Vétérinaire ou d'infirmier Adjoint
Graduates by Curricula in 1978:

Elevage 15

TOTAL 15

GENERAL INFORMATION:

Name: Ecole des Eaux et Forêts
et des Chasses du Cameroun
Mailing Address: B. P. 69
Mbalmayo
Cameroon

Send in-
quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79 Male 80
STUDENT Female -
ENROLLMENT: Total 80

Minimum years of education
required for entrance: 10 years

Qualifications awarded: Brevet d'Etudes Eaux de
Forets - Diplome des Techniciens Eaux et Forêts
Graduates by Curricula in 1978:

BREVET 28
DIPLOMA 14

TOTAL 32

Year established: 1959

Source(s)
of Support: Ministère de Elevage

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u> </u>	<u> </u>	<u>1</u>
Teaching	<u>1</u>	<u> </u>	<u>2</u>	<u>3</u>
Technical	<u>1</u>	<u> </u>	<u>3</u>	<u>4</u>
Total	<u>3</u>	<u> </u>	<u>5</u>	<u>8</u>

Language(s) of instruction: Francais

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric.development bank,cooperative,etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

Year established: 1950

Source(s)
of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>	<u> </u>	<u>1</u>	<u>5</u>
Teaching	<u>7</u>	<u>1</u>	<u>4</u>	<u>12</u>
Technical	<u>6</u>	<u> </u>	<u> </u>	<u>6</u>
Total	<u>17</u>	<u>1</u>	<u>5</u>	<u>23</u>

Language(s) of instruction: Francais- Anglais

Duration of courses: 2 & 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>80</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>20</u>
Agric.development bank,cooperative,etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Ecole Normale des Institutrices
de l'Enseignement Technique

Mailing Address: B. P. 511
Yaounde
Cameroun

Send in-quiries to: Directrice des etudes

Year established: 1966

Source(s) of Support: Ministere de l'education Nationale

STAFFING	<B.S	B.S	>B.S	Total
Administrative	---	---	---	---
Teaching	---	---	---	---
Technical	---	---	---	---
Total	---	---	---	15

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
		24	24

Minimum years of education required for entrance:

Qualifications awarded: Brevet Superieur d'Aptitude à l'Enseignement menager et culture

Graduates by Curricula in 1978:

Enseignement Menager	19
TOTAL	19

Language(s) of instruction: Francais

Duration of courses:

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	---
Teaching in Schools.....	---
Technical staff at an educational or research institution.....	---
Agric.development bank,cooperative,etc.	---
Agri-business firms.....	---
Farming or farm management.....	---
Entered nonagricultural employment.....	---
Continue their education.....	---
Unemployed.....	---
Other: _____	100%

CAPE VERDE ISLANDS

The educational system of the Cape Verde Islands exists at the primary, secondary and post-secondary levels. Since independence from Portugal in 1975 the educational system has been expanded.

Elementary Education

Primary education lasts for six years and is compulsory. Portuguese is the language of instruction.

Secondary Education

Secondary education in Cape Verde is divided into two levels, the first lasting three years and the second two years. The first level terminates with an examination necessary for admission to the second level of secondary education or the primary teacher training college. Students may complete the first level of their secondary education in general, technical and industrial or agriculture schools. Those who wish eventually to go on to higher education must complete the second level of their secondary education. Others leave school for the labor force. At the end of the second level of secondary school students sit an examination necessary for admission to the secondary teachers' training college and prerequisite to study abroad.

Higher education

Post-secondary education is available in the secondary teachers' training college established in 1979. The course of study lasts three years and focuses on mathematics, physics and Portuguese, subjects recognized as crucial to education for development. Teachers are also trained abroad, especially in Portugal, where many more specializations are offered.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Cape Verde Islands."

CENTRAL AFRICAN REPUBLIC

The educational system of the Central African Republic is modeled on the French pattern. Since gaining independence from France in 1960, the numbers of students enrolled in school, especially at the primary level, has risen sharply. In the first year of independence, 90,000 primary level students were enrolled. By 1974, the number had risen to 200,000.¹ Efforts have continued since the early 1960's to strengthen and expand the school system and begin shaping it to educate individuals capable of filling employment needs. The missionary schools, the most important educational factor in colonial days, were brought into the state system in 1962. The Ecole normale supérieure and the University Jean-Bedel Bokassa were established in the early 1970's. Technical training is emphasized, especially in the area of mining and agriculture. A major reorganization is planned to make the system more responsive to the country's needs and to its role as an African nation. The educational system consists of a two-year preschool program, a six-year elementary program, a seven-year secondary program and higher education. Instruction is given in French at all levels, a practice which creates difficulties for students at the lower levels whose spoken languages are African.

Elementary Education

The primary program offers two years of preschool and six years of instruction which prepares students for secondary level work. The CEPE (certificat d'études primaires élémentaires) is awarded at the end of the sixth year.

Secondary Education

Students must pass an entrance examination to be admitted into the secondary program which is made up of two segments. The first segment is called the lower cycle, is four years long and leads to the BEPC (brevet d'études du premier cycle). Students attend collèges d'enseignement générale, collèges d'enseignement technique (schools of general or technical education) or lycées to receive lower cycle training. A brevet élémentaire may also be awarded in place of a BEPC, but the use of the BEPC is increasingly common. The second cycle is three years in length and prepares students for higher education. Students attend a lycée and earn a baccalauréat, which is awarded in either the sciences, letters or technical study.

Higher Education

Higher education is still in the formative stages. A student holding a baccalauréat or who passes certain examinations may be admitted to the University of Jean-Bedel Bokassa. It is not yet possible for a student to earn degrees at all levels, but students may earn the DUEL (diplôme universitaire d'études littéraires) in letters and human sciences or the DUES (diplôme universitaire d'études scientifiques) in mathematics and the sciences. Law and economics are also offered, but students must complete their degree in France. Those students interested in pursuing a career in agriculture may attend the University Institute of Agronomy at M'Baiki (Institute universitaire de technologie agronomique). Students completing the three-year course in animal husbandry earn the diplôme d'ingénieur agricole. Some practical work is included as part of the training. A baccalauréat and an entrance examination are required for those wishing to enter the program.

In addition to the university, higher education is also offered in the Ecole normale supérieure (Higher Normal School) which was established in 1970. The Ecole trains lower cycle secondary teachers to teach in the collèges d'enseignement général.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Central African Republic."

AGRICULTURAL EDUCATION INSTITUTIONS IN
CENTRAL AFRICAN REPUBLIC

Directeur
Institut Université de Technologie
Agronomique et Forestière de M'Baïki
Université de Bangui
B.P. 909
Bangui
Central African Republic
Central Africa

Directeur
École d'Élevage et d'Infirmiers
Vétérinaires
B.P. 39
Bouar
Central African Republic
Central Africa

Directeur
École Technique d'Agriculture
Grimari
Central African Republic
Central Africa

GENERAL INFORMATION:

Name: Université de Bangui, Institut Universitaire de Technologie Agricole et Forestière
 Mailing de Mbaiki
 Address: BP909, Bangui
 Central African

University Established in 19 -
 Faculty Established in 1970

Source of Financial Support:
 Ministeré Education Nationale and
 Cooperation France
 Language(s) of Instruction:
 Francais

Send in-
 quiries to: Directeur

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

The Academic Year begins in Octobre

and ends in Juin

Degrees and Qualifications Awarded:
 Diplome Ingenieur Travaux Agricole
 Diplome Ingenieur Travaux Forestiers
 Minimum Entrance Requirements
 for First Degree program:

Baccalaureat Serie C & D

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	64	2	66
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	64	2	66

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.	Agr.	D oct.
Sciences Agricoles			6	
Sylviculture			4	
Total No. Graduates		10		

FACULTY AND DEPARTMENTS

Number of full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	8	11
M. Sc. Degree or Equivalent	2	_____
Doctoral Degree	1	_____
Total Number	11	11

Academic Departments

REPUBLIC OF CHAD

The educational system in Chad is patterned after the French model at all levels. The primary program is six years long, the secondary program seven years in length and there is limited higher education. The majority of primary teachers are Chadian, while forty-five percent of the lower level secondary teachers and eighty percent of the upper level secondary teachers are foreign, primarily French. Efforts are being made to train Chadian school teachers to alleviate dependence upon foreign nationals. High dropout rates, political unrest and the lack of human and financial resources pose serious problems in providing adequate education.

Elementary Education

Primary education is offered by both public and private schools. The majority of the fifty private schools are missionary schools which teach about nine percent of the primary students. The primary program lasts six years and culminates in the CEPE (certificat d'études primaires élémentaires). In 1974, approximately 200,000 pupils or twenty-three percent of primary-age children, attended elementary school.

Secondary Education

Students must pass both the CEPE and an entrance examination to enroll in the secondary program. In 1974, only 12,000 students advanced to the secondary level. Following the traditional French model, the secondary course of study is divided into two cycles: the first, or lower cycle, which lasts four years and leads to the BEPC (brevet d'études du premier cycle), and the three-year second, or upper cycle, which leads to the baccalauréat. The baccalauréat is awarded in one of four areas: mathematics and physical sciences; philosophy and literature; natural sciences; and economics and social sciences. Secondary students attend CEGs (collèges d'enseignement général) or lycées, a few of which are private. Several of the lycées provide technical training.

Higher Education

Higher education is provided by the University of Chad which was established in 1971. The university is made up of four institutes and offers courses of study in law, science, economics, management, letters, modern languages, human sciences and animal husbandry. Because the university is new, a student can earn only the two-year diplôme and the three-year licence in most areas. There is, as yet, no postgraduate study. Students must possess a baccalauréat or its equivalent to be admitted to the university.

Students wishing to study agriculturally related subjects at the higher level enroll in the Institut universitaires des techniques de l'élevage, one of the institutes making up the university. Students completing this program are given the title of Ingénieur Agronome. Many students elect to study abroad, normally in areas of study not provided by the university. Veterinary medicine and agriculture are two of the most popular areas chosen. Students may also study to become veterinarians or technicians at the Institut d'élevage et de médecine vétérinaire du pays tropicain (Institute of Animal Husbandry and Veterinary Medicine for Tropical Nations) which is separate from the University of Chad.

¹International Encyclopedia of Higher Education, 1977 ed., s.v., "Chad, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN CHAD

Doyen
Institut Universitaire des Techniques de l'Elevage
(I.U.T.E.)
University du Chad
B.P. 912
N'Djamena
Chad
Africa

Directeur
Institut d'Elevage et de Medecine
Veterinaire des Pays Tropicaux
B.P. 683
N'Djamena
Chad
Africa

Directeur
College d'Enseignement Technique Agricole
Ba Illi
Bosso
Chad
Africa

Directeur
Ecole Nationale des Agents Techniques de L'Elevage
B.P. 750
N'Djamena
Chad
West Africa

GENERAL INFORMATION:

Name: Institut Universitaire des Techniques de l'Elevage

Mailing Address: B. P. 912
N'Djamena
Chad

Send inquiries to: Recteur

Institution accepts Foreign students for:

- (a) Academic Degree programs
 - (b) Educational Exchange programs
- The Academic Year begins in _____
and ends _____

University Established in 19 _____

Faculty Established in 19 72

Source of Financial Support:
Universite X, Autres Services:
FED et FAC

Language(s) of Instruction:
Francais

Degrees and Qualifications Awarded:
Diplome d'Ingenieur des Techniques
d'Elevage

Minimum Entrance Requirements
for First Degree program:
13 annees

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Techniques Students	40	_____	40
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	40	_____	40

Number of 1979 Graduates by Curricula and Academic Level:
Curricula Ing.T. M.Sc. Doct.

Elevage	8	_____	_____
Total No. Graduates	8	_____	_____

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

<u>Level of Education</u>	<u>Full-time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	1	_____
M. Sc. Degree or Equivalent	10	_____
Doctoral Degree	17	_____
Total Number	28	_____

Academic Departments
Techniques d'l'Elevage

GENERAL INFORMATION:

Name: Ecole Nationale des Agents
Techniques de L'Elevage

Mailing

Address: B. P. 750
N'djamena
Chad

Send in-
quiries to: Directeur

Year established: 1973

Source(s)
of Support: Ministère de l'Elevage, FAC et FED

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>2</u>	<u>—</u>	<u>1</u>	<u>3</u>
Teaching	<u>2</u>	<u>2</u>	<u>3</u>	<u>7</u>
Technical	<u>1</u>	<u>1</u>	<u>4</u>	<u>6</u>
Total	<u>5</u>	<u>3</u>	<u>8</u>	<u>16</u>

STUDENTS AND CURRICULA:

1978/79	Male	<u>93</u>
STUDENT	Female	<u>4</u>
ENROLLMENT:	Total	<u>97</u>

Minimum years of education
required for entrance: 10 years

Qualifications awarded: Diplôme des Agents
Techniques de L'Elevage

Graduates by Curricula in 1978:

	<u>28</u>
	<u>—</u>
	<u>—</u>
	<u>—</u>
TOTAL	<u>28</u>

Language(s) of instruction: Français

Duration of courses:

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	<u>93</u>
Teaching in Schools.....	<u>—</u>
Technical staff at an educational or research institution.....	<u>—</u>
Agric. development bank, cooperative, etc.	<u>—</u>
Agri-business firms.....	<u>—</u>
Farming or farm management.....	<u>—</u>
Entered nonagricultural employment.....	<u>—</u>
Continue their education.....	<u>—</u>
Unemployed.....	<u>—</u>
Other: Laboratoire de Recherche	<u>7</u>
	<u>100%</u>

ISLAMIC REPUBLIC OF THE COMORES

The Islamic Republic of the Comores is a former French colony which became independent in 1975. The Comores consist of four large and several smaller islands located in the Mozambique Channel between Mozambique and northern Madagascar. The educational system of the Comores is based on the French model with French used as the medium of instruction.

Primary education in the Comores lasts six years and is compulsory. According to a 1974 statistic 130 government and private primary schools existed to serve the country's needs. In the same year one private and several government secondary schools located on each island served nearly 3,000 secondary pupils.

There are no institutions of higher education in the Comores. The Agriculture Education Center located in Moroni was forced to close in the early 1970s due to financial difficulties. However, there are plans to reopen the Center by 1983 or 1984.

PEOPLE'S REPUBLIC OF THE CONGO

There have been many political changes since the People's Republic of the Congo gained its independence from France in 1960. Now oriented toward socialism, there are many educational ties with the Soviet Union and Romania where many Congolese students study for advanced degrees. Soviet and East German nationals teach in Congolese schools; however, the relationship with France has not been severed. Some French nationals also serve as instructors, and the French government has given a significant amount of aid to education, especially at the higher level. In spite of the changes that have taken place, the educational system is still based on the French pattern, and French remains the language of instruction at all levels. The primary program is six years in length, the secondary program is seven years long, and higher education is offered by the Université Marien Ngouabi which was established in 1971. The system has been somewhat modified, especially at the primary and secondary level, to emphasize African and third world history and geography. Higher education remains closely allied to the French format.

Elementary Education

The primary program is six years long and prepares students for secondary level work. Education is free and compulsory for children between six and sixteen years of age.

Secondary Education

Secondary students enter an initial four-year program called a moyen cycle, which leads to the BEMG (brevet d'études moyennes générales), a new diploma. The BEMG entitles students to enter programs which train nurses, civil servants, primary teachers and technicians. Those who continue their secondary education attend lycées for three years and earn a baccalauréat.

Higher Education

Students holding a baccalauréat are eligible to enter the Université Marien Ngouabi. Three facilities make up the university whose programs and degrees are equivalent to those granted in France. Students may study law and economic science, letters and social sciences, and science. Students interested in advanced study travel to France. Students may also study in the Soviet Union and Romania where they enroll in technical, medical, forestry, mining and agricultural programs.

Additional institutions exist at the higher level such as the Institut pédagogique des sciences de l'éducation (IPSE: Pedagogical Institute of the Science of Education) and the École polytechnique, which prepares high level technicians. Future plans call for an École normale supérieure d'enseignement technique (ENSET: Higher Normal School of Technical Education) to be attached to the École polytechnique to train secondary technical teachers. Medical personnel are trained at the Institut des sciences de la santé (Institute of Health Sciences) in cooperation with the World Health Organization. Students normally must pass an entrance examination or fulfill other requirements to enroll in these programs.¹

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "People's Republic of the Congo."

AGRICULTURAL EDUCATION INSTITUTIONS IN
REPUBLIQUE POPULAIRE DU CONGO

Directeur
Institut Developpement Rural (ID)
Universite de Marien Ngouabi
B.P. 69
Brazzaville
Rep. Populaire du Congo
Central Africa

Directeur
Section Agricole du Lycee Technique
B. P. 2013
Brazzaville
Rep. Populaire du Congo
Central Africa

Directeur
College d'Enseignement Technique Agricole
B.P. 6
Sibiti
Rep. Populaire du Congo
Central Africa

GENERAL INFORMATION:

Name: Institut de Developpement Rural
Université Marien Nguabi

Mailing Address: B.P. 69
Brazzaville
Congo

Send in-
quiries to: Directeur de l'I.D.R.

Institution accepts Foreign students for:

(a) Academic Degree programs Oui

(b) Educational Exchange programs Oui

The Academic Year begins in September

and ends in Juillet

University Established in 1963

Faculty Established in 1975

Source of Financial Support:
Ministère de l'Education Nationale

Language(s) of Instruction:
Français

Degrees and Qualifications Awarded:
Diplôme d'Ingénieur des Travaux de Dévelop-
pement Rural; Diplôme d'Ingénieur de Dével-
opement Rural
Minimum Entrance Requirements for First Degree program:
Bac + 3 ans. de pratique

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
Ingenieur des Travaux de D.R. (2 ans.)	39	1	40
Ingenieur de Dev Rural (5 ans.)	93	7	100
Advanced Degree Students			
Total Number of Full-time Students	132	8	140

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	I.deTRD	I.deD.R.
Les premiers Ingénieurs sortent a la fin de juillet 1980		
Total No. Graduates		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome	4	6
M. Sc. Degree or Equivalent D.E.A.	2	7
Doctoral Degree (3e Cycle de Veterinaire)	12	10
Total Number	18	23

Academic Departments

Sciences Agronomiques Fondamentales (D.S.A.F.)
Sciences de Development Rural (D.S.D.R.)
Formation Courtes et Perfectionnement (D.F.C.P.)

ARAB REPUBLIC OF EGYPT

The educational system of Egypt consists of a six-year primary school program, a six-year secondary program, and an extensive university system. A separate religious school system also exists providing primary and secondary education for those people who prefer a non-secular emphasis. Since the 1952 revolution, education has been Arabicized and this has been considered a highly important national goal. Efforts are continuing to increase educational opportunities and facilities.

Elementary Education

The six-year general primary program is compulsory. At the end of this period students are examined, and those who pass may proceed to the secondary level.

Secondary Education

The six-year secondary program consists of two levels, the preparatory level and the secondary level, each three years in length. Those students interested in further formal study pursue an academic program, while those interested in working immediately after graduation take vocational courses. Academically oriented students earn an academic secondary certificate upon completion of secondary school and upon passing a national examination. Students may elect to attend religious secondary schools.

Higher Education

Numerous universities and institutes exist for qualified students wishing to continue their education beyond the secondary level. Nine state universities offer a free education in a wide range of subjects including, but not limited to, the arts, law, economics, commerce, political science, medicine, science, engineering, dentistry, agriculture, archaeology and Islamic studies. The American University of Cairo, a private institution, offers a liberal arts curriculum, while al-Azhar University, one of the oldest in the world, teaches theology and Islamic law and jurisprudence, in addition to medicine, science, engineering, agriculture and other modern courses. Established in a.d. 970, al-Azhar University was brought into the state system in 1961. A student may earn a bachelor's degree after four years of study, a master's degree requiring two or three additional years of work beyond the bachelor's, and a doctorate.

Higher institutes with four and five year programs, leading to the same degree granted by the university, also exist and offer training in commerce, agriculture, teacher education, industrial training, music, art education, physical training, home economics, social work, tourism and hotels, and languages. In addition to university and four-year institute training, some two-year institutes exist to train industrial and medical technicians.

Students are admitted to the university on the basis of their score on the national examination for the general secondary certificate. Those with the highest score are given priority to enter medicine, engineering, science, pharmacy, economics, veterinary medicine and dentistry.¹ Secondary graduates denied university entrance may take university examinations and be admitted if a high grade is achieved.

¹International Encyclopedia of Higher Education, 1977 ed., s.v., "Arab Republic of Egypt."

AGRICULTURAL EDUCATION INSTITUTIONS IN ARAB REPUBLIC OF EGYPT

Dean
Faculty of Agriculture
Ain Shams University
Shubra El Khema
Cairo
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Cairo University
Giza, Cairo
Arab Republic of Egypt
North Africa

Dean
Moshtohor Faculty of Agriculture
Moshtohor-Toka
Qualubeya
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
University of Alexandria
Alexandria
Arab Republic of Egypt
North Africa

Dean
Faculty of Veterinary Medicine
Cairo University
Giza, Cairo
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Tanta University
Tanta
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Assiut University
Assiut
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Suez Canal University
Ismailiah
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
University of Zagazig
Zagazig
Arab Republic of Egypt
North Africa

Dean
Faculty of Veterinary Medicine
Assiut University
Assiut
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Al-Azhar University
Madinet Nasr, Cairo
Arab Republic of Egypt
North Africa

Dean
Faculty of Veterinary Medicine
Alexandria University
Edfina, Rosetta Branch
Edfina
Behera Province
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
University of Mansoura
Mansoura, Dakahlia
Arab Republic of Egypt
North Africa

Dean
Department of Agriculture
Higher Technological Institute
108 Shubra Street
Cairo
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
Monoufeia University
Shebin El Kom
Monoufeia
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
El Fayoun University
El Fayoun
Arab Republic of Egypt
North Africa

Dean
Faculty of Cotton Sciences
University of Helwan
P. O. Bulkely, Alexandria
Arab Republic of Egypt
North Africa

Dean
Faculty of Agriculture
El Minia University
El Minia
Arab Republic of Egypt
North Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture
 University of Alexandria
 Mailing 22 AlGuiesh Avenue
 Address: Alexandria
 Egypt

University Established in 1942

Faculty Established in 1942

Source of Financial Support:
 Egyptian Government

Send in-
 quires to:

Language(s) of Instruction:
 Arabic

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:

- (a) Academic Degree programs
 - (b) Educational Exchange programs
- The Academic Year begins in Third week of Sept.
 and ends in Mid June

B.Sc., M.Sc., Ph.D-Diploma
 Minimum Entrance Requirements
 for First Degree program:
 Certificate of Education

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	4847	2203	7050
Ingenieur Agronome Students	63	21	84
Advanced Degree Students	20	11	31
Total Number of Full-time Students	4930	2235	7165

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agricultural Sciences	412	4	2
Animal Science	108	12	5
Agric.Extension	66	4	1
Ag.Engineering	60	1	
Forestry	11	4	
Home Economics	65	8	2
Others	474	51	21
Total No. Graduates	1211	1196	31

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	63	
Ingenieur Agronome	126	
M. Sc. Degree or Equivalent	111	
Doctoral Degree	266	10
Total Number	571	10

Academic Departments

Soil Science, Agriculture
 Economics, Agricultural Extension
 Rural Sociology, Animal Production
 Genetics, Forestry, Horticulture
 Agronomy, Food Technology
 Plant Pathology
 Plant Protection
 Agricultural Engineering

GENERAL INFORMATION:

Name: Faculty of Cotton Sciences
University of Helwan

Mailing Address: P.O. Bulkely
Alexandria
Egypt

Send in-quiries to: Dean of the Faculty

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs No

The Academic Year begins in September
and ends in June

University Established in 1959

Faculty Established in 1975

Source of Financial Support:

Government Support (Federal
Government of Egypt)

Language(s) of Instruction: Arabic

Degrees and Qualifications Awarded:

B.Sc., M.Sc., and Ph.D.

Minimum Entrance Requirements

for First Degree program:

High School Diploma
(Equal to GCE Diploma)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	776	462	1238
Ingenieur Agronome Students	-	-	-
Advanced Degree Students	23	12	35
Total Number of Full-time Students	799	474	1273

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Cotton Sciences	202		
Total No. Graduates	202		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	26	5
Ingenieur Agronome	-	-
M. Sc. Degree or Equivalent	4	4
Doctoral Degree	18	22
Total Number	48	31

Academic Departments

Cotton Technology

Cotton Production

Cotton Economics

GENERAL INFORMATION:

Name: Faculty of Veterinary Medicine
Assiut University
Mailing
Address: Assiut
Egypt

University Established in 1957

Faculty Established in 1961

Source of Financial Support:
Ministry of Education

Send in-
quiries to: Dean

Language(s) of Instruction:
English and partially Arabic

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
1) B;V;Sc.(DVM) 2) Diplome of Higher
Studies 3) Master degree 4) Ph.D.
Minimum Entrance Requirements
for First Degree program:

- (a) Academic Degree programs yes
 - (b) Educational Exchange programs yes
- The Academic Year begins in September or early
October
and ends in May or June

Secondary School Certificate

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	1011	343	1354
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	59	11	70
Total Number of Full-time Students	1070	354	1424

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Veterinary Medicine	198	9	7
Total No. Graduates	214	198	9 7

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	4	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	70	_____
Doctoral Degree	47	_____
Total Number	121	_____

Academic Departments

- Dept. Anatomy and Histology
- Dept. Hygiene and Preventive Medicine
- Dept. Pathology
- Dept. Medicine
- Dept. Surgery
- Dept. Obstetrics and Gynecology

N.B. Other subjects are taught in the
joint Departments in the faculties of
Medicine, Agriculture, and Science

GENERAL INFORMATION:

Name: Faculty of Veterinary Medicine

Mailing Address: Alexandria University
Edfina, Rosetta Branch
Behera Province
Egypt

University Established in 19 42

Faculty Established in 19 75

Source of Financial Support:
Ministry of Education

Send in-quiries to: Dean

Language(s) of Instruction:
English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
B.V. Sc., M.V.Sc., D.V.Sc. and Ph.D.

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

Minimum Entrance Requirements
for First Degree program:

The Academic Year begins in October

and ends in July

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	405	96	501
Ingenieur Agronome Students			
Advanced Degree Students	51	2	56
Total Number of Full-time Students	459	98	557

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Vet. Medicine	69	5	1
Total No. Graduates	69	5	1

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	19	
Ingenieur Agronome		
M. Sc. Degree or Equivalent	8	
Doctoral Degree	12	
Total Number	39	

Academic Departments

- Anatomy and Histology
- Physiology, Pharmacology
- Animal Husbandry
- Food Hygiene
- Microbiology & Animal Hygiene
- Pathology & Parasitology
- Medicine & Forensic Medicine
- Poultry and Fish
- Surgery & Obstetrics & A.I.

GENERAL INFORMATION:

Name: Faculty of Agriculture
 Mailing Address: Ain Shams University
 Soubra El-Khema
 Cairo
 Egypt

University Established in 1950

Faculty Established in 1942

Source of Financial Support:
 Ministry of Education

Send inquiries to: Dean

Language(s) of Instruction:
 Undergraduate - Arabic
 Postgraduate - English
 Degrees and Qualifications Awarded:

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

B.Sc., M.Sc., Ph.D.

(b) Educational Exchange programs Yes

Minimum Entrance Requirements
 for First Degree program:

The Academic Year begins in September

Secondary School Certificate

and ends in June

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	3287	1501	4788
Ingenieur Agronome Students			
Advanced Degree Students	551	168	719
Total Number of Full-time Students	3838	1669	5507

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric. Sciences	183	55	13
Animal Science	174		3
Horticulture	89	6	2
Genetics	18	2	
Food Industry	78	6	3
Biochemistry	60		
Rural Development	51		
Pedology	87	16	9
Total No. Graduates	740	85	30

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	73	
Ingenieur Agronome	106	
M. Sc. Degree or Equivalent	211	
Doctoral Degree		
Total Number	390	

Academic Departments

- Pedology
- Agri. Economics
- Agri. Cooperation
- Animal Production
- Poultry Production
- Agronomy Crop Production
- Agronomy Crop Breeding
- Horticulture
- Entomology
- Pesticides
- Plant Pathology
- Agri-Microbiology
- Food Industry
- Dairy Science Technology
- Biochemistry
- Genetics
- Plant Production
- Rural Development Planning
- Agriculture Production

GENERAL INFORMATION:

Name: Faculty of Agriculture
 Mailing Address: University of Mansoura
 Mansoura, Dakahlia
 Egypt

University Established in 1962
 Faculty Established in 1974
 Source of Financial Support:
 Government, Arab Republic of Egypt
 Language(s) of Instruction:
 Arabic
 Degrees and Qualifications Awarded:
 B.Sc., M.Sc., and Ph.D.
 Minimum Entrance Requirements
 for First Degree program:
 G.S.S.C. (general secondary school
 Certificate)

Send in-
 quiries to: Dean

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

The Academic Year begins in September

and ends in June

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	2268	796	3064
Ingenieur Agronome Students			
Advanced Degree Students	53	14	67
Total Number of Full-time Students	2321	810	3131

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric. Sciences	333	21	
Animal Science	83	3	
Agric. Mechanization & Engineering	92	1	
Food Technology	95	2	
Total No. Graduates	603	27	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	71	
Ingenieur Agronome		
M. Sc. Degree or Equivalent	62	
Doctoral Degree	78	20
Total Number	211	20

Academic Departments

Horticulture
 Agronomy
 Agr. Botany
 Agr. Economy
 Animal Production
 Food Technology
 Soil and Agr. Chemistry
 Entomology and Plant Production
 Farm Mechanization

GENERAL INFORMATION:

Name: Faculty of Agriculture
Monoufeia University

Mailing Address: Shebin Elkom
Monoufeia
Egypt

Send in-
quiries to: Dean

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
 - (b) Educational Exchange programs Yes
- The Academic Year begins in September
and ends in June

University Established in 1976

Faculty Established in 1969

Source of Financial Support:
Ministry of Education

Language(s) of Instruction:
Arabic

Degrees and Qualifications Awarded:

B.Sc., M.Sc., Ph.D. in Agriculture Science
Minimum Entrance Requirements
for First Degree program:
High School Certificate

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	2180	584	2764
Ingenieur Agronome Students			
Advanced Degree Students	150	27	177
Total Number of Full-time Students	2330	611	2941

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agricultural Science	356	17	
Total No. Graduates	356	17	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	52	
Ingenieur Agronome	80	
M. Sc. Degree or Equivalent	92	
Doctoral Degree		
Total Number	224	

Academic Departments
Agricultural Economics
Agricultural Botany
Horticulture
Soil Science
Crop Protection
Animal Sciences
Agronomy
Food Science and Technology

GENERAL INFORMATION:

Name: Faculty of Agriculture

University Established in 1974

Mailing Address: University of Zagazig
Zagazig
Egypt

Faculty Established in 1969

Source of Financial Support:
Ministry of Education

Send inquiries to: Dean

Language(s) of Instruction:
Arabic for Undergraduate
English for Graduate

Institution accepts foreign students for:

Degrees and Qualifications Awarded:
B.Sc., M.Sc., Ph.D.

(a) Academic Degree programs Yes

(b) Educational Exchange programs

Minimum Entrance Requirements
for First Degree program:
GCE

The Academic Year begins in October

and ends in June

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	2378	548	2926
Ingenieur Agronome Students	—	—	—
Advanced Degree Students	317	69	386
Total Number of Full-time Students	2695	617	3312

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric.Sciences	269	4	
Animal Science	21	12	
Ag. Extension Education	25		
Other	98	43	5
Total No. Graduates	* 413	59	5

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	45	—
Ingenieur Agronome	—	—
M. Sc. Degree or Equivalent	106	—
Doctoral Degree	117	—
Total Number	268	—

Academic Departments

Animal Production
Plant Protection
Agricultural Economics & Rural Sociology
Agronomy
Horticulture
Soil Science
Food Science and Dairying
Botany

* These figures include graduates of other Agriculture related areas in other Colleges as well.

Republic of Equatorial Guinea

The Republic of Equatorial Guinea, formerly called Fernando Póo, consists of a mainland and two islands on the West Coast of Africa between Cameroon and Gabon. Prior to independence from Spain in 1968 education in Equatorial Guinea was provided in approximately 150 primary schools and two secondary schools. Since independence, however, the government has altered the structure of education. New schools have been built and compulsory education has been extended from six to eight years. Several post-secondary institutions have also been established.

Primary education in Equatorial Guinea is free and compulsory for students age six through fourteen. After completion of primary school students may proceed to a four year middle school. The final level of secondary school lasts two years. Students at the secondary level may choose between general or technical secondary education.

Post-secondary education in Equatorial Guinea is offered in two teacher training schools. There is no university; students go abroad for higher education, either to Spain or Yugoslavia.

¹Encyclopedia of the Third World George Thomas Kurian, Facts on File, 1978.

ETHIOPIA

Ethiopia is unique in that the country was never colonized by a European power. As a result, the system of education is Ethiopia's own, made up of those practices that are best suited to the country. Before the introduction of western style education in the early 1900's, Ethiopia had a tradition of church education dating from the fourth century A.D. when the country became Christianized. At that time the Ethiopian Orthodox Church established schools which were primarily religious and which are still in operation. The Muslims also maintain Koranic schools. Higher education is offered by a number of institutions, but only to the undergraduate level. Education has expanded greatly since the country was liberated from Italian control in 1941 and continues to be a major concern of the government.

Elementary Education

Children attend a six-year primary school course between the ages of seven to twelve. Instruction is given in Amharic at this level. The number of students attending primary school has risen over the years, growing from 200,000 in 1960 to 854,000 in 1974.¹

Secondary Education

The secondary program is six years long. Students attend between the ages of twelve and eighteen, and instruction is given in English. Academic, technical and vocational programs are offered. There has also been growth in the number of students at the secondary level. In the seventh and eighth grades, the number rose from 14,600 in 1960 to 102,500 in 1974.² The Ethiopian School Leaving Certificate is awarded to those completing the secondary course after they have passed an examination.

Higher Education

A number of institutions offer higher level education in Ethiopia. Addis Ababa University offers degrees in the humanities, and the social and natural sciences, as well as education, law, theology, business, agriculture, public health and engineering. Students must hold an Ethiopian School Leaving Certificate to enter higher level institutions. Because of the restricted number of openings, there is increasing competition among applicants. A unique aspect of the university system is the Ethiopian University Service (EUS). Before a student may receive a degree, an academic year must be spent in rural service in the area of study.

Other postsecondary institutions offer degrees, diplomas and certificates. The Academy of Pedagogy at Bahr Dar offers a four-year degree in education, while the College of Teacher Education trains lower level secondary teachers. The University of Asmara is a pre-university preparatory school, and the Bahr Dar Polytechnic trains technicians. French language teachers study in a two-year program at the Ecole normale supérieure; the Evangelical College Debre Zeit, a missionary school, trains teachers. Agricultural training is offered at the Addis Ababa University in the regular degree program. Additional training is also offered by the Ministry of agriculture in agricultural institutes which operate two-year programs. Institutes at Ambo and Jima train technicians and extension personnel, while the Animal Health Institute in Debre Zeit trains animal specialists. The Kuyera Adventist College in southwestern Ethiopia offers training in agromechanics.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Ethiopia."

² Ibid.

AGRICULTURAL EDUCATION INSTITUTIONS IN ETHIOPIA

Dean
College of Agriculture
Asmara University
P.O. Box 1220
Asmara
Ethiopia
East Africa

Dean
College of Agriculture
University of Addis Ababa
P. O. Box 138
Dire Dawa
Ethiopia
East Africa

Director
Ambo Institute of Agriculture
P.O. Box 19
Ambo Shoa
Ethiopia
East Africa

Principal
Institute for Animal Health Assistants
P.O. Box 34
Debre Zeit
Ethiopia
East Africa

Principal
Jimma Agricultural Institute
P.O. Box 307
Jimma
Ethiopia
East Africa

GENERAL INFORMATION:

Name: Ambo Institute of Agriculture

Mailing Box 19
Address: Ambo Shoa
Ethiopia

Send in-
quiries to: Director

Year established: 1924

Source(s)
of Support: Higher Education Commission

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>10</u>			<u>10</u>
Teaching	<u>7</u>	<u>6</u>	<u>2</u>	<u>15</u>
Technical				
Total	<u>17</u>	<u>6</u>	<u>2</u>	<u>25</u>

STUDENTS AND CURRICULA:

1978/79	Male	<u>185</u>
STUDENT	Female	<u>21</u>
ENROLLMENT:	Total	<u>206</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	
General Agriculture	<u>96</u>
	<u> </u>
	<u> </u>
TOTAL	<u>96</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

Percent

Government Extension Service.....	<u>60</u>
Teaching in Schools.....	<u>40</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Jimma Institute of Agriculture

Mailing P.O. Box 307
Address: Jimma
Ethiopia

Send in-
quiries to: Director

Year established: 1951

Source(s)
of Support: Commission for Higher Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>8</u>			<u>8</u>
Teaching		<u>16</u>	<u>1</u>	<u>17</u>
Technical	<u>4</u>			<u>4</u>
Total	<u>12</u>	<u>16</u>	<u>1</u>	<u>29</u>

STUDENTS AND CURRICULA:

1978/79	Male	<u>200</u>
STUDENT	Female	<u>38</u>
ENROLLMENT:	Total	<u>238</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	
General Agriculture	<u>90</u>
	<u> </u>
	<u> </u>
TOTAL	<u>90</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

Percent

Government Extension Service.....	<u> </u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: Fully employed	<u>100</u>
	<u>100%</u>

GABON REPUBLIC

Gabon gained its independence from France in 1960 and has generally retained the French based educational system. Instruction is in French in the six-year primary program, the four to seven-year secondary program, and the institutions of higher learning. Soon after independence education efforts were expanded, but the lack of funds, proper facilities and qualified teachers precipitated a high drop out rate and diminished the quality of the educational program. The 1970's brought an increase in funding due to oil revenues, and the quality and availability of education has improved markedly. The teacher shortage remains a continuing problem.

Elementary Education

The primary program is six years long and prepares students for secondary level study. Instruction is in French which poses initial problems for students who speak only African languages. Education is free at all levels and compulsory for children between the ages of six and sixteen. Students may attend public schools or state-subsidized church schools, both of which offer the same course of secular study resulting in the same qualifications.

Secondary Education

The program of secondary education lasts between four to seven years, depending upon whether a student follows the general or technical track. Those students entering the technical or employment oriented program attend either the CEG (collèges d'enseignement général) which offers a general course of study or a CET (collèges d'enseignement technique) for commercial and industrial training. Both institutions award the BEPC (brevet d'études du premier cycle) at the end of four years. The BEPC opens the way for additional training in a variety of areas including nursing, mid-level government work, accountancy, forestry and medical assistance. Students may also prepare to become primary school teachers. Students planning to continue in higher education programs attend public lycées or private collèges modernes. Students wishing to earn the baccalauréat must attend the lycées, the only institutions offering the seventh and final year (the terminale) which leads to that degree.

Higher Education

The Université Nationale du Gabon and an assortment of other institutions offer qualified students the opportunity for higher education. The Université was established in 1971 and admits individuals holding the baccalauréat. Students may study law, economics, letters, physical and social sciences and mathematics in two-year courses equivalent to the diplôme. Those wishing to earn degrees beyond the diplôme must travel abroad, often to France.

Additional institutes and ecoles offer students training in other fields and accept individuals at both the BEPC and baccalauréat level, depending on the program. Secondary teachers, administrators and information specialists are examples of the occupations which students can prepare for at these institutions. Those interested in forestry may attend the Institut national d'études forestières (National Institute for Forestry). Admission requirements vary with the institution, and entrance examinations are sometimes administered.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Gabon Republic."

AGRICULTURAL EDUCATION INSTITUTIONS IN GABON

Directeur
Ecole Nationale des Eaux & Forêts
Université Omar Bongo
B.P. 3960
Libreville
Estuaire
Gabon
Central Africa

Directeur
Ecole Nationale des Cadres Ruraux
B.P. 120
Oyem
Weleu-Nton
Gabon
Central Africa

GENERAL INFORMATION:

Name: Grande Ecole, rattachée à l'Université Omar Bongo

University Established in 1970

Mailin: Ecole Nationale des Eaux & Forêts
 Address: Libreville, Estuaire
 Libreville, Estuaire
 Gabon

Faculty Established in 1969

Source of Financial Support:
 Ministère de l'Agriculture, des Eaux et Forêts et du Développement Rural

Send inquiries to: Directeur

Language(s) of Instruction:
 Français

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
 Ingénieur des Techniques des Eaux et Forêts (Equiv. à Licence ès-Sciences)

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes

Minimum Entrance Requirements for First Degree program:

The Academic Year begins in Octobre
 and ends in Juin

Baccalaureat en mathématiques ou en Sciences

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	24	2	26
Ingenieur Agronome Students			
Advanced Degree Students			
Total Number of Full-time Students	24	2	26

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.Agr.	Doct.
Forestrie	7		
Total No. Graduates 7			

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	5	3
Ingenieur Agronome	5	1
M. Sc. Degree or Equivalent	3	1
Doctoral Degree		
Total Number	13	5

Academic Departments

- * Aménagement Silviculture
- * Foresterie Proprement dite
- * Exploitation Forestiere
- * Technologie et Industries du bois

* Depuis 1981

REPUBLIC OF THE GAMBIA

The Republic of The Gambia is an independent country within the British Commonwealth and as such closely follows the British system of education. The general system of education in The Gambia consists of six years of primary school followed by either a four-year terminal junior secondary school program or a five-year secondary school program after which a student may pursue higher education.

Primary Education

Primary school consists of six years of basic subject matter and is largely intended to prepare students for secondary school programs. The primary school curriculum includes arithmetic, social studies, music, crafts, language and science.

Secondary Education

Secondary education is divided into two streams: a four-year terminal junior secondary school program or a five-year secondary school program. The junior secondary school program provides commercial and technical training and leads to the locally administered Junior Secondary School Leaving Certificate examination. The five-year program culminates in the General Certificate of Education (GCE) examination, ordinary level, which is sponsored by the West African Examinations Council. Those who pass the required number of subjects in the GCE examination, ordinary level, may continue their studies in the sixth form to prepare for the GCE examination, advanced level, in two, three, or four areas of study.¹

Higher Education

Students who successfully complete the fifth year of senior secondary school or those who hold the GCE, ordinary level, are eligible for admission to the teacher training college at Yundum. Teachers for the primary schools are trained at the college in a program extending two or three years. Secondary school graduates who wish to pursue university level education must study abroad, generally on scholarships provided by the Gambian or foreign governments. Students from The Gambia are enrolled in higher education institutions in France, Morocco, Nigeria, the Soviet Union, and the United Kingdom.¹

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Gambia, Republic of the."

AGRICULTURAL EDUCATION INSTITUTIONS IN GAMBIA

Head
 Agriculture Department
 Gambia College
 Yundum
 Western Division
 Gambia
 West Africa

GENERAL INFORMATION:

Name: Gambia College
 Mailing Address: Western Division
 Yundum
 Gambia
 Send in-quiries to: The Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>210</u>
STUDENT	Female	<u>46</u>
ENROLLMENT:	Total	<u>256</u>

Minimum years of education required for entrance: 10 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:	
Education	<u>54</u>
General Ag.	<u>23</u>
	<u> </u>
TOTAL	<u>77</u>

Year established:

Source(s) of Support: Ministry of Education, Ministry of Agriculture, Ministry of Health

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>1</u>	<u>3</u>	<u>2</u>	<u>6</u>
Teaching	<u>20</u>	<u>10</u>	<u>3</u>	<u>33</u>
Technical	<u>3</u>			<u>3</u>
Total	<u>24</u>	<u>13</u>	<u>5</u>	<u>42</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>23</u>
Teaching in Schools.....	<u>77</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

REPUBLIC OF GHANA

A new educational structure in Ghana came into operation at the beginning of the 1974-75 school year. The new system starts with a compulsory two-year pre-school program for all children under the age of six. This is followed by a Basic First Cycle consisting of six years of primary education, plus three years of Junior Secondary. After completing this level, students will be selected into one of several options. One option is to terminate school and seek employment, while other students may pursue technical and commercial courses. Those who have the necessary qualifications and desire to continue formal education may proceed to the Senior Secondary Upper course which will prepare them for the Advanced Level examination, the gateway to university entrance. Students who do not go on to the university will be encouraged to train for middle level professions in other institutions in the system, for example, the polytechnics or the teacher training colleges.¹

Primary Education

Under the new structure, primary education has changed only slightly. In both structures students complete six years of primary school. In the new structure, which was initiated in 1974 on a year-to-year basis, students will complete the outgoing program until 1985, at which time the new structure will be in effect throughout the system. In the out-going structure, a few very capable students complete the Common Entrance Examination (CEE) immediately following primary school and enter directly into secondary school. More often students complete one to two years, occasionally three, of middle school and then sit for the CEE to qualify for secondary school or some types of teacher training or technical education. The remaining students complete four years of middle school and take the Middle School Leaving Examination, as the terminal examination, or some may enter certain teacher training or technical institutions.²

Secondary Education

Secondary education is very similar to the system used in other Anglophone countries of West Africa and consists of five years of academic work (Forms I-V) ending in completion of the Joint Examination for the West African School Certificate and the General Certificate of Education, ordinary level (WASC/GCE-O).²

Upper Secondary Preparatory Education

Secondary school is followed by two years of upper secondary preparatory study known as lower form VI and upper form VI. At the end of the upper VI year, students complete the Joint Examination for the Higher School Certificate and General Certificate of Education, advanced level (HSC/GCE-A); the certificate required for entry into universities and various other postsecondary educational opportunities.²

Higher Education

The academic board of each university is responsible for the maintenance of academic standards. There continues to be the system of using external examiners and moderators from other universities to evaluate the academic performance of students at each university. Each university offers the bachelor's degree as the first degree and together they offer degree programs in fifteen fields of study, in programs lasting three to five and a half years. The master's degree requires two years of additional study beyond the bachelor's degree and the doctoral degree is also available in some fields. Undergraduate diplomas and certificates are offered in some fields of study, ranging from one to three years. Postgraduate diploma and certificate courses require one year and are offered in courses ranging from adult education to oceanography and French, as well as law and architecture.³

¹NAFSA Newsletter, November 1975.

²AACRAO World Education Series, Ghana, by Stan Berry, 1976.

³International Encyclopedia of Higher Education, 1977 ed., s.v., "Ghana, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN GHANA

Dean
Faculty of Agriculture
University of Ghana
P.O. Box 68
Legon
Accra
Ghana
West Africa

Principal
Kpong Irrigation College
P.O. Box 9
Kpong, E. R.
Ghana
West Africa

Dean
Faculty of Agriculture
University of Science and Technology
Kumasi
Ashanti
Ghana
West Africa

Principal
Kwadaso Agricultural College
Private Mail Bag, Academy Post Office
Kwadaso
Kumasi
Ghana
West Africa

Dean
School of Agriculture
University of Cape Coast
Private Post Bag
Cape Coast
Ghana
West Africa

Principal
Nyankpala Agricultural College
P.O. Box 347
Tamale
Northern Region
Ghana
West Africa

Principal
Fisheries Training School
P.O. Box M37
Accra
Ghana
West Africa

Principal
Veterinary College
Pong Tamale, P. O. Box 300
Tamale
Northern Region
Ghana
West Africa

Principal
Ejura Agricultural College
P.O. Box 29
Ejura
Ashanti
Ghana
West Africa

Headmaster
Damango Agriculture Institute
P.O. Box 36
Damango
Northern Region
Ghana
West Africa

Principal
School of Forestry
P. O. Box 214
Sunyani
Brong-Ahafo
Ghana
West Africa

Principal
Ohawu Agricultural College
P.O. Box 28
Ohawu, Via Abor
Ghana
West Africa

Principal
Wenchi Farm Institute
P.O. Box 71
Wenchi
Brong-Ahafo Region
Ghana
West Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture
 Mailing: University of Ghana
 Address: P. O. Box 68
 Legon
 Accra
 Ghana

University Established in 1948

Faculty Established in 1948

Source of Financial Support:
 Government and Tuition

Send in-
 quiries to: Dean

Language(s) of Instruction:
 English

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes

Degrees and Qualifications Awarded:
 B.Sc. (Agriculture and Home Sciences)
 M.Sc. (Agriculture); and Ph.D.

The Academic Year begins in October
 and ends in June

Minimum Entrance Requirements
 for First Degree program:
 GCE with 2 "A"-level passes in
 Chemistry and Biology and an "O"
 level pass in Math

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Total
B.Sc. Degree Students	127	43	170
Ingenieur Agronome Students	—	—	—
Advanced Degree Students	29	1	30
Total Number of Full-time Students	156	44	200

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	B.Sc. ^(Sp.)	Doct.
Home Science	1		
Animal Sciences	9		
Crop Science	18		
Soil Science	2		
Agr. Economics	14		
Total No. Graduates	44		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	—	—
Ingenieur Agronome	—	—
M. Sc. Degree or Equivalent	26	6
Doctoral Degree	31	5
Total Number	57	11

Academic Departments

- Agricultural Economics and Farm Management
- Animal Science
- Soil Science
- Crop Science
- Agricultural Extension
- Agricultural Engineering
- Home Science

GENERAL INFORMATION:

Name: Faculty of Agriculture, University of Science and Technology, Kumasi (U.S.T.)
 Mailing Address: Kumasi Ashanti Ghana

University Established in 1961
 Faculty Established in 1961
 Source of Financial Support: Ghana Government

Send inquiries to: Dean

Language(s) of Instruction: English

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
 - (b) Educational Exchange programs No
- The Academic Year begins in October and ends in June

Degrees and Qualifications Awarded: B.Sc. (Hons), M.Sc., Ph.D.

Minimum Entrance Requirements for First Degree program: 5 G.C.E. "O" Level credits including 3 "A" level passes

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	196	27	233
Ingenieur Agronome Students			
Advanced Degree Students	5	1	6
Total Number of Full-time Students	201	28	229

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agriculture	36		
Animal Science	7		
Agric. Extension	1		
Agri-Mechanization	2		
Horticulture	10		
Total No. Graduates	56		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	5	3
Ingenieur Agronome		
M. Sc. Degree or Equivalent	16	4
Doctoral Degree	17	8
Total Number	38	15

Academic Departments

- Department of Horticulture
- Department of Animal Science
- Department of Crop Science
- Department of Agric-Engineering
- Department of Agric-Economics and Farm Management

GENERAL INFORMATION:

Name: School of Agriculture
 Mailing: University of Cape Coast
 Address: Private Post Bag
 Cape Coast
 Ghana

University Established in 1962
 Faculty Established in 1975 (school)

Source of Financial Support:
 Council of Higher Education/UNPD

Send inquiries to: Director

Language(s) of Instruction:
 English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
 B.Sc., Agric., Dip. Ag. Ed.

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes

Minimum Entrance Requirements
 for First Degree program:

The Academic Year begins in October
 and ends in July

3-level passes including Biology,
 Physics, Chemistry, Agric.

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	25	3	28
Ingenieur Agronome Students	—	—	—
Advanced Degree Students	—	—	—
Total Number of Full-time Students	25	3	28

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric. Sciences	23		
Total No. Graduates		23	

FACULTY AND DEPARTMENTS

Academic Departments

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	1	1
Ingenieur Agronome	—	—
M. Sc. Degree or Equivalent	5	6
Doctoral Degree	6	6
Total Number	12	13

GENERAL INFORMATION:

Name: Faculty of Agriculture
 Mailing Address: University of Ghana
 Legon
 Accra
 Ghana
 Send inquiries to: Dean

Year established: 1948
 Source(s) of Support: National Council for Higher Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	6	1		7
Teaching			54	54
Technical	18			18
Total	24	1	54	79

STUDENTS AND CURRICULA:

1979/80 STUDENT ENROLLMENT:	Male	Female	Total
	106	44	150

Language(s) of instruction: English
 Duration of courses: 2 years

Minimum years of education required for entrance: 15-17 years

Qualifications awarded: National Diploma in Agri., Ag. Mechanics, Animal Health and Home Science
 Graduates by Curricula in 1978:

General Agriculture	22
Home Economics Extension	8
Agricultural Mechanization	15
Veterinary Science	9
TOTAL	54

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	65
Teaching in Schools.....	20
Technical staff at an educational or research institution.....	5
Agric. development bank, cooperative, etc.	3
Agri-business firms.....	2
Farming or farm management.....	5
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	100%

GENERAL INFORMATION:

Name: Ohawu Agricultural College
 Mailing Address: P. O. Box 28
 Ohawu - Abor
 Ghana
 Send inquiries to: The Principal

Year established: 1963

Source(s) of Support: The government

STAFFING	<B.S	B.S	>B.S	Total
Administrative				
Teaching		4		4
Technical			4	4
Total		4	4	8

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	132		132

Language(s) of instruction: English
 Duration of courses: 3 years

Minimum years of education required for entrance: 13 years

Qualifications awarded: Certificate in agriculture

Graduates by Curricula in 1978:

General Agriculture	48
TOTAL	48

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	80
Teaching in Schools.....	5
Technical staff at an educational or research institution.....	
Agric. development bank, cooperative, etc.	5
Agri-business firms.....	10
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	100%

GENERAL INFORMATION:

Name: School of Forestry

Mailing Address: P. O. Box 214
Sunyani
Brong-Ahafo
Ghana

Send inquiries to: The Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>143</u>
STUDENT	Female	<u>11</u>
ENROLLMENT:	Total	<u>154</u>

Minimum years of education required for entrance: 13 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

	Forestry	<u>61</u>
	Others	<u>8</u>
	TOTAL	<u>69</u>

GENERAL INFORMATION:

Name: Wenchi Farm Institute

Mailing Address: P. O. Box 71
Wenchi
Brong-Ahafo
Ghana

Send inquiries to: The Headmaster

STUDENTS AND CURRICULA:

1978/79	Male	<u>99</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>99</u>

Minimum years of education required for entrance: 10 years

Qualifications awarded: Certificate in general Agriculture

Graduates by Curricula in 1978:

	General Agriculture	<u>95</u>
		<u> </u>
	TOTAL	<u>95</u>

Year established:

Source(s) of Support: Ministry of Lands and Natural Resources
Department of Forestry

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Teaching	<u> </u>	<u> </u>	<u>1</u>	<u>1</u>
Technical	<u> </u>	<u> </u>	<u>8</u>	<u>8</u>
Total	<u> </u>	<u> </u>	<u>9</u>	<u>9</u>

Language(s) of instruction: English language

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service (Forestry)	<u>88.5</u>
Teaching in Schools	<u> </u>
Technical staff at an educational or research institution	<u>5.7</u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms	<u> </u>
Farming or farm management	<u> </u>
Entered nonagricultural employment	<u> </u>
Continue their education	<u> </u>
Unemployed	<u> </u>
Other: Game Rangers	<u>5.8</u>
	<u>100%</u>

Year established: 1963

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Teaching	<u>2</u>	<u> </u>	<u>1</u>	<u>3</u>
Technical	<u>4</u>	<u> </u>	<u> </u>	<u>4</u>
Total	<u>6</u>	<u> </u>	<u>1</u>	<u>7</u>

Language(s) of instruction: English

Duration of courses: one year

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service	<u>5</u>
Teaching in Schools	<u>10</u>
Technical staff at an educational or research institution	<u>2</u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms	<u>5</u>
Farming or farm management	<u>56</u>
Entered nonagricultural employment	<u>10</u>
Continue their education	<u>2</u>
Unemployed	<u>10</u>
Other:	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Ejura Agricultural College

Mailing Address: P. O. Box 29
Ejura-Ashanti
Ghana

Send inquiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>64</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>64</u>

Minimum years of education required for entrance: 12 years

Qualifications awarded: Certificate for General Agriculture

Graduates by Curricula in 1978:	
General Agriculture	<u>64</u>
	<u> </u>
	<u> </u>
TOTAL	<u>64</u>

GENERAL INFORMATION:

Name: Department of Agricultural Economics

Mailing Address: University of Science and Technology
Kumasi
Ashanti
Ghana

Send inquiries to: Head

STUDENTS AND CURRICULA:

1978/79	Male	<u>108</u>
STUDENT	Female	<u>4</u>
ENROLLMENT:	Total	<u>112</u>

Minimum years of education required for entrance: 16 - 18 Years

Qualifications awarded: (1) Certificate (Forestry)
(2) Diploma-Extension and Farm Management, Forestry and Horticulture

Graduates by Curricula in 1978:	
Agricultural Extension	<u>13</u>
Horticulture	<u>15</u>
Forestry	<u>15</u>
TOTAL	<u>43</u>

Year established: 1963

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u> </u>	<u>1</u>	<u> </u>	<u>1</u>
Teaching	<u> </u>	<u>2</u>	<u> </u>	<u>2</u>
Technical	<u>7</u>	<u> </u>	<u> </u>	<u>7</u>
Total	<u>7</u>	<u>3</u>	<u> </u>	<u>10</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u> </u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agrie.development bank,cooperative,etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

Year established: 1951

Source(s) of Support: University

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>48</u>	<u> </u>	<u> </u>	<u>48</u>
Teaching	<u> </u>	<u>4</u>	<u>38</u>	<u>42</u>
Technical	<u>43</u>	<u>1</u>	<u>1</u>	<u>45</u>
Total	<u>91</u>	<u>5</u>	<u>39</u>	<u>135</u>

Language(s) of instruction: English

Duration of courses: 1 and 2 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>51</u>
Teaching in Schools.....	<u>36</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agrie.development bank,cooperative,etc.	<u>3</u>
Agri-business firms.....	<u>1</u>
Farming or farm management.....	<u>1</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>3</u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Damongo Agricultural Institute

Mailing Address: Post Office Box 36
 Damongo
 Northern Region
 Ghana

Send in-quiries to: Headmaster

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT: Male 45
 Female _____
 Total 45

Minimum years of education required for entrance: 10 years

Qualifications awarded: One year Certificate of General Agriculture
 Graduates by Curricula in 1978:
 General Agriculture 45

 TOTAL 45

GENERAL INFORMATION:

Name: Irrigation College

Mailing Address: P. O. Box 9
 Kpong
 Eastern Region
 Ghana

Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT: Male 26
 Female _____
 Total 26

Minimum years of education required for entrance: 15 years

Qualifications awarded: Certificate
 Graduates by Curricula in 1978:

 TOTAL 26

Year established: 1964

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	_____	_____	_____	_____
Teaching	_____	_____	<u>2</u>	<u>2</u>
Technical	<u>6</u>	_____	_____	<u>6</u>
Total	<u>6</u>	_____	<u>2</u>	<u>8</u>

Language(s) of instruction: English

Duration of courses: 1 year

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>10</u>
Teaching in Schools.....	<u>30</u>
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	<u>20</u>
Farming or farm management.....	<u>30</u>
Entered nonagricultural employment.....	<u>10</u>
Continue their education.....	_____
Unemployed.....	_____
Other: _____	<u>100%</u>

Year established: 1977

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>7</u>	_____	_____	<u>7</u>
Teaching	<u>4</u>	<u>1</u>	<u>2</u>	<u>7</u>
Technical	<u>1</u>	_____	_____	<u>1</u>
Total	<u>12</u>	<u>1</u>	<u>2</u>	<u>15</u>

Language(s) of instruction: English

Duration of courses: One year

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>100</u>
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	<u>100%</u>

GENERAL INFORMATION:

Name: Kwadaso Agricultural College

Mailing Address: Private Mail Bag
Academy Post Office
Kwadaso - Kumasi
Ghana

Send in-
quiries to: Principal

Year established: 1952

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	1	—	1
Teaching	—	8	—	8
Technical	3	—	—	3
Total	3	9	—	12

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	282	56	338

Minimum years of education
required for entrance: 14 - 15 years

Qualifications awarded:

Graduates by Curricula in 1978:

Agricultural Extension	77
Home Economics Extension	16
TOTAL	93

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: Veterinary College

Mailing Address: Division of Veterinary Services
Pong Tamale, P.O. Box 300
Tamale
Northern Region
Ghana

Send in-
quiries to: Principal

Year established: 1960

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3	—	—	3
Teaching	—	2	3	5
Technical	1	—	—	1
Total	4	2	3	9

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	112	26	138

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

Veterinary Science	42
TOTAL	42

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: Nyankpalā Agricultural College

Mailing Address: P. O. Box 347
 Tamale
 Northern Region
 Ghana

Send inquiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 269
 STUDENT Female _____
 ENROLLMENT: Total 269

Minimum years of education required for entrance: 10 or 11 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

General Agriculture 63

 TOTAL 63

Year established: 1953

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u>1</u>	<u> </u>	<u>2</u>
Teaching	<u> </u>	<u>6</u>	<u>2</u>	<u>8</u>
Technical	<u>3</u>	<u> </u>	<u> </u>	<u>3</u>
Total	<u>4</u>	<u>7</u>	<u>2</u>	<u>13</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>98</u>
Teaching in Schools.....	<u>0.5</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric.development bank,cooperative,etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u>1</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>0.5</u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

REPUBLIC OF GUINEA

The educational system of Guinea was originally based on the French model and retains various elements of that influence even though considerable restructuring has taken place since the country's independence from France in 1958. There has been substantial growth in school enrollments, the number of students enrolled at all levels increasing from 45,000 in 1958 to 300,000 in 1975.¹ The Socialist Culturist Revolution of 1968 initiated a number of changes including the establishment of a rural university to encourage socialist awareness, and the emphasis of practical education for national development.

Elementary Education

Elementary and secondary education is made up of three cycles, the first of which comprises the primary program. Children enter the first or primary cycle of education at six years of age and remain for six years. Attendance is compulsory for all children from six to twelve years of age and is funded by the government, as is all education in Guinea. Instruction in the first cycle is given in the various national languages.

Secondary Education

Secondary education is made up of the second and third cycles which comprise the initial portion of Guinea's educational system. Each of the cycles is three years in length. An additional thirteenth year was added in 1973 to provide the student with a year of practical experience before proceeding to higher level education. The second cycle leads to the brevet d'enseignement du second cycle technique (BESCT), while the third cycle leads to the baccalauréat. Secondary level instruction provides scientific and technical training for those who plan on postsecondary education, while vocational programs prepare others for the world of work. There is emphasis on practical training in all secondary programs, and instruction is given in French.

Higher Education

Higher education in Guinea, or the fourth and final phase in the educational cycle, is provided by the University of Guinea. The Institut polytechnique Gamal Abdel Nasser de Conakry offers training in chemistry; electrical, mechanical, and civil engineering; agronomy; social and natural science; geology; medicine; law; and administrative sciences. It is one of the two institutions making up the university. The second institution, the Institute polytechnique Julius Nyéreré de Kankan, offers programs in agronomy, and the social and natural sciences. Medicine excepted, programs are five years long and include a year of practical training. There are three levels of degrees, the licence; the diplôme d'études supérieures, which is an advanced diploma; and the highest, the doctorat. Admission is granted to those participating successfully in a competitive examination and who have completed the thirteenth year of secondary school.

Another type of training is offered by the écoles nationales professionnelles, also part of the university. Two programs are offered, Type A for students who have completed the second cycle, or ninth grade, and Type B, for those who have completed their thirteenth year. The program for the Type B students lasts two years and trains people for work in agronomy, technology, administration and medicine and pharmacy. Those who do well complete an additional year at the university. Agronomy is being stressed and eleven new agronomy centers were established in various regions throughout the country in 1977.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Guinea."

AGRICULTURAL EDUCATION INSTITUTIONS IN GUINEA

Doyen
Faculte des Sciences Zootechniques
de Fanoila
A La Ferme d'Etat de Fanoila
Beyla
Guinea
West Africa

Directeur
Ecole Nationale d'Agriculture de Tol
Mamou
Guinea
West Africa

Doyen
Faculte d'Agriculture
Institut Polytechnique Abdel Nasser
de Conakry
Conakry
Guinea
West Africa

Directeur
Ecole Nationale Veterinaire
Mamou
Guinea
West Africa

Doyen
Faculte d'Agriculture
Institute Polytechnique Julius Nyerer
Kankan
Conakry
Guinea
West Africa

Directeur
Ecole des Preposes Forestiers
Mamou
Guinea
West Africa

Directeur
Ecole Nationale d'Agriculture
Faranah
Guinea
West Africa

Directeur
Institut Nationale Agronomique de Foulaya
Foulaya
Guinea
West Africa

Directeur
Ecole National d'Agriculture
Kindia
Guinea
West Africa

GENERAL INFORMATION:

Name: Faculté des Sciences Zootechniques
de Famöila
Mailing: A la Ferme d'Etat de Famöila
Address: Beyla
Republique de Guinée

University Established in 19
Faculty Established in 19 64

Source of Financial Support:
Ministère Enseignement Supérieur et de la
Recherche Scientifique

Send in-
quiries to: Doyen

Language(s) of Instruction:
Français

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
*

(a) Academic Degree programs No

(b) Educational Exchange programs No

The Academic Year begins in Octobre

Minimum Entrance Requirements
for First Degree program:

and ends in Avril

1^{ere} et 2^{eme} parties du baccalaureat

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

Number of 1979 Graduates by
Curricula and Academic Level:

	Males	Females	Totals
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	140	40	180
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	140	40	180

Curricula

*			
---	--	--	--

Total No.
Graduates

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	2	_____
Ingenieur Agronome	6	3
M. Sc. Degree or Equivalent	_____	_____
Doctoral Degree	_____	_____
Total Number	8	3

Academic Departments

* Les étudiants après 3 ans d'études dans cette Faculté sont orientés soit dans les instituts polytechniques du pays soit dans les universités extérieures.

REPUBLIC OF GUINEA-BISSAU

Since gaining its independence from Portugal in 1974, the Guinea-Bissau government has created a new educational system. The new educational program has as its objectives universal education, adult literacy, equal educational opportunity for urban and rural residents and a program geared to the social and economic needs of the country. A primary objective is to provide six years of school for all youth.¹

Elementary Education

The six-year primary program, or basic education (ensino basico), is broken into two cycles: a four-year and a two-year cycle. Instruction is given in Portuguese.

Secondary Education

Postprimary education is divided into two tracks, the first being a three-year vocational program designed to train nurses, primary school teachers and agricultural workers. The other secondary program (ensino geral polivalente) prepares students for more advanced work and higher education. Upon completion of the secondary program, students enter the ensino medio polivalente, a program from two to four years in length, given in institutions emphasizing education, agronomy, nursing, social science and professional training. The purpose of the institutes is to train individuals to fill intermediate level occupations.

Higher Education

No institution of higher education exists in Guinea-Bissau. Qualified students study abroad through the assistance of government scholarships.

¹International Encyclopedia of Higher Education, 1977 ed., s.v., "Republic of Guinea-Bassau."

REPUBLIC OF IVORY COAST

The educational system of the Ivory Coast is based on the French model. There are six years of elementary education, seven years of secondary education and various opportunities for higher education. Instruction is given in French. The government has marked technical and vocational training as a priority to facilitate development and increase the pace of industrialization.

Elementary Education:

Both the primary and secondary programs closely follow the French model. Those students who successfully pass the six year elementary program receive the CEPE (certificat d'études primaires élémentaires).¹

Secondary Education:

Students enter the secondary level by passing an entrance examination. The secondary program is seven years long and divided into two cycles, the lower four-year cycle and the upper three-year cycle. At the end of the fourth year an examination is administered resulting in the BEPC (Brevet d'études du premier cycle de l'enseignement secondaire). No one may advance to the upper cycle without the brevet. The baccalauréat is awarded at the completion of the third year, indicating speciality. Both academic and vocational/technical training is offered at the upper level.

Higher Education:

Higher education is offered by the National University of the Ivory Coast and various schools, or ecoles. Students must possess the baccalauréat or its equivalent or pass a special entrance examination to be admitted to the university. The ecoles have differing requirements, some stipulating the baccalauréat and others a completed degree. University students may study law, economic sciences, medicine, arts and humanities and science. Three degree levels are granted, a diplôme in the area of study after two years, a licence after the third year, and a maîtrise after the fourth year. Doctorate degrees may also be earned.

Students may be admitted to the various ecoles, i.e. specialized professional schools, which are closely affiliated with the university. Students wishing to study agriculture in the Ecole nationale supérieure agronomique must first complete two years at the university and earn a DUES (diplôme universitaire d'études scientifiques). An additional two years of study, including two months of practical experience, results in the diplôme d'agronomie générale, equivalent to the maîtrise. A third year of study will result in the diplôme d'ingénieur agronome, or graduates may study in France.

Higher technicians are trained at the IUT (University Institute of Technology), receiving a diplôme universitaire de technologie, which is equivalent in level to the DUES. This course of study is initiated after the baccalauréat.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Ivory Coast."

² "Ivory Coast" by Barb Seagle. Unpublished paper, February 1, 1980.

AGRICULTURAL EDUCATION INSTITUTIONS IN IVORY COAST

Directeur
Ecole National Supérieure d'Agronomie
B.P. 8035
Abidjan
Ivory Coast
West Africa

Directeur
Ecole Forestière du Banco
B. P. 3233
Abidjan
Ivory Coast
West Africa

Directeur
Ecole d'Élevage de Bingerville
B.P. 58
Bingerville
Ivory Coast
West Africa

Lycee Agricole de Bingerville
B.P. 14
Bingerville
Ivory Coast
West Africa

Directeur
Institut Agricole de Bouaké (I.A.B.)
B.P. 1490
Bouaké
Ivory Coast
West Africa

GENERAL INFORMATION:

Name: Ecole Nationale Supérieure Agronomique
 Mailing B. P. 35
 Address: Abidjan 08
 Cote d'Ivoire

University Established in 19

Faculty Established in 1971

Source of Financial Support:
 Ministère de L'Agriculture

Send in-
 quires to: Directeur de l'ENSA

Language(s) of Instruction:
 Français

Institution accepts Foreign students for:

- (a) Academic Degree programs
- (b) Educational Exchange programs

Degrees and Qualifications Awarded:
 Diplômes D'Agronomie Général et
 D'Ingenieur Agronome
 Minimum Entrance Requirements
 for First Degree program:

The Academic Year begins in
 and ends in

15 years

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students			
Ingenieur Agronome Students	<u>151</u>	<u>9</u>	<u>160</u>
Advanced Degree Students	<u>---</u>	<u>---</u>	<u>---</u>
Total Number of Full-time Students	<u>151</u>	<u>9</u>	<u>160</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Inq. Agr.	D. Degree
Agronomie	2	
Sylviculture	1	
Elevage	5	
Peche	1	
Industrie, alimentaires	2	
Ecologie	3	
Amelioration Plantes	1	
Entomologie	1	
Gestion	9	
Total No. Graduates	25	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	<u>---</u>	<u>---</u>
Ingenieur Agronome	<u>18</u>	<u>---</u>
M. Sc. Degree or Equivalent	<u>5</u>	<u>---</u>
Doctoral Degree	<u>21</u>	<u>---</u>
Total Number	<u>44</u>	<u>---</u>

Academic Departments

- Elevage
- Agronomie
- Etude des sols
- Irrigation - Hydrologie
- Sylviculture
- Peche
- Industries alimentaires
- Ecology
- Amelioration des plants
- Gestion
- Economie - Gestion des Entreprises Agricoles
- Defense des Cultures

GENERAL INFORMATION:

Name: Institut Agricole de Bouake

Mailing Address: B. P. 1490
Bouake
Cote d'Ivoire

Send inquiries to: Directeur

Institution accepts Foreign students for:

- (a) Academic Degree programs
- (b) Educational Exchange programs

The Academic Year begins in _____
and ends in _____

University Established in 19 _____

Faculty Established in 19 75

Source of Financial Support:
Ministère de l'Agriculture, F.A.C.,
C.C.F.

Language(s) of Instruction:

Francais

Degrees and Qualifications Awarded:
Diplôme d'ingenieur des Techniques
Agricoles

Minimum Entrance Requirements
for First Degree program:

Baccalaureat ou BEPC + 5 ans D'etudes
Techniques 13 years

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	_____	_____	_____
Ingenieur Students	218	5	223
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	218	5	223

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Ing. Agr.		
Sciences Agric.	43		
Economie Agric.	2		
Enseignement Agricole et Vulgarisation	8		
Sylviculture	3		
Total No. Graduates	56		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	14	_____
M. Sc. Degree or Equivalent	2	_____
Doctoral Degree	1	_____
Total Number	17	_____

Academic Departments

Elevage
Agronomie
Etude des sols
Horticulture
Mechanisation Agricole
Irrigation - Hydrology
Sulviculture
Pêche
Autres Rechersh - Credit, Banque Agricole, Cooperation, Formation

GENERAL INFORMATION:

Name: Ecole d'Elevage de Bingerville

Mailing Address: B. P. 58
Bingerville
Cote D'Ivoire

Send in-quiries to: Directeur

Year established: 1962

Source(s) of Support:

STAFFING	<B.S	B.S	>B.S	Total
Administrative	2	—	1	3
Teaching	—	—	13	13
Technical	—	—	4	4
Total	2	—	18	20

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	56	4	60

Minimum years of education required for entrance: 8 years

Qualifications awarded:

Graduates by Curricula in 1978:	
	18
	—
	—
	—
TOTAL	18

Language(s) of instruction: Francais

Duration of courses: Ministère de Production Animale

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other:	—
	100%

GENERAL INFORMATION:

Name: Lycée Agricole de Bingerville

Mailing Address: B. P. 14
Bingerville
Ivory Coast

Send in-quiries to: Le Proviseur

Year established: 1958

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	11	11
Teaching	—	—	5	5
Technical	—	—	—	—
Total	—	—	16	16

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	275	25	300

Minimum years of education required for entrance: 11 années

Qualifications awarded: Assistant des Productions Vegetales et Animales

Graduates by Curricula in 1978:	
Agriculture	19
	—
	—
	—
TOTAL	19

Language(s) of instruction: Francais

Duration of courses: 5 années

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other:	—
	100%

REPUBLIC OF KENYA

The educational system of Kenya has undergone some revisions since Kenya's independence in 1963. The current system consists of seven years of elementary education, four years of lower secondary and three years of upper secondary schooling during which time students may elect to pursue either an academically oriented curriculum or a technical or applied program. For students that qualify, higher education is available at several universities and colleges in Kenya.

Primary Education

Education in primary and secondary school is not compulsory, but since January 1974 education in the first four years of primary school (Standards I-IV) is free; school fees for grades five through seven have been standardized throughout the country, but in order to encourage greater attendance in the poorer districts of the country, in July, 1973, school fees were waived in ten districts. In 1973 most primary school students were enrolled in government maintained schools; only about one percent attended government-assisted or unaided schools.

Secondary Education

Secondary schools are highly selective in admitting new students. After seven years of primary school, students sit for the Certificate of Primary Education in order to gain admission to secondary school. At the end of Form 2 (grade nine) the Kenya Junior Secondary Education (KJSE) examination is offered to provide a certificate for those students who terminate their studies at this level. The examination for the East African Certificate of Education (EACE) or for the Cambridge School Certificate (at ordinary level) is taken after Form V. The East African Advanced Certificate (EAAC) or the Cambridge Higher School Certificate (HSC) is taken after Form VI. Performance on these examinations is used in selecting those students who will continue in higher education at the university and college levels.¹

Higher Education

The University of Nairobi offers instruction at three levels: diploma, first degree level (i.e., B.Sc.), and postgraduate diploma or degree study. Postgraduate degrees are available in various faculties to the doctoral level (Ph.D.). The university senate oversees the awarding of diplomas and degrees. Postgraduate standards are generally maintained by international committees. The constituent Kenyatta University College is responsible for training graduate teachers for secondary schools and teacher training colleges and offers a five-year Bachelor of Education degree in its faculties of Arts, Science, and Education, as well as in its departments of home economics and fine arts. Teacher training colleges, for teachers at the secondary level, are becoming more specialized in their course offerings. The two Kenya polytechnics have five-year commercial, business, and technical programs in engineering, business and commerce, hotel management, and science, as well as teacher training. Certificates and diplomas are offered at several levels.¹

¹The International Encyclopedia of Higher Education, 1977 ed., s.v. "Kenya, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN KENYA

Dean
Faculty of Veterinary Medicine
University of Nairobi
P.O. Box 29053
Kabete
Kenya
East Africa

Director
Bukura Institute of Agriculture
Box 23
Bukura, Kakamega
Kenya
East Africa

Head
Department of Home Economics
Kenyatta University College
P.O. Box 43844
Nairobi
Kenya
East Africa

Director
Embu Institute of Agriculture
P.O. Box 6
Embu
Kenya
East Africa

Dean
Faculty of Agriculture
University of Nairobi
Kabete, P.B. 29053
Nairobi
Kenya
East Africa

Principal
Forest Training School
P. O. Box 8
Londiani
Kenya
East Africa

Principal
Egerton Agricultural College
Private Mail Bag
Njoro
Kenya
East Africa

Director
Animal Health and Industry Training Institute
P.O. Box 29040
Nairobi
Kenya
East Africa

GENERAL INFORMATION:

Name: Faculty of Veterinary Medicine
University of Nairobi

Mailing Address: P. O. Box 29053
Kabete
Kenya

Send inquiries to: Dean

Institution accepts Foreign students for:

- (a) Academic Degree programs yes
- (b) Educational Exchange programs yes

The Academic Year begins in September
and ends in July

University Established in 19 56

Faculty Established in 1961

Source of Financial Support:
Ministry of Education

Language(s) of Instruction:
English

Degrees and Qualifications Awarded:
B.V. Med., M.Sc., Ph.D.

Minimum Entrance Requirements
for First Degree program:
'A' level School Certificate with
Principal Pass in Chemistry & Biology

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	72	9	81
Ingenieur Agronome Students	—	—	—
Advanced Degree Students	—	—	—
Total Number of Full-time Students	72	9	81

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.V.M.	M.Sc.	Doct.
Vet. Medicine	78		
Total No. Graduates		78	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	—	—
Ingenieur Agronome	—	—
M. Sc. Degree or Equivalent	32	—
Doctoral Degree	58	—
Total Number	90	—

Academic Departments

1. Veterinary Anatomy
2. Veterinary Physiology
3. Biochemistry
4. Animal Production
5. Veterinary Pathology and Microbiology
6. Public Health Pharmacology and Toxicology
7. Clinical studies

GENERAL INFORMATION:

Name: Faculty of Agriculture
University of Nairobi
Mailing Address: P. O. Box 29053
Nairobi, Kenya

University Established in 19
Faculty Established in 1970

Send in-
quiries to: Dean

Source of Financial Support:
1. National Co-operative Trials program
2. partly: Rockefeller Foundation,
IDR, C and Ford Foundation
Language(s) of Instruction:

English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
B.Sc.; M.Sc.; Ph.D.

(a) Academic Degree programs yes

(b) Educational Exchange programs

Minimum Entrance Requirements
for First Degree program:

The Academic Year begins in September
and ends in March

Hi-school certificate, and have passed
level of biology, chemistry in addition
to mathematics, or having diploma from
Agriculture or Veterinary college in East
Africa.

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

Number of 1979 Graduates by
Curricula and Academic Level:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	_____	_____	_____

Curricula	B.Sc.	M.Sc.	Doct.
Total No. Graduates			

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Academic Departments

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	2	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	30	_____
Doctoral Degree	48	_____
Total Number	80	_____

1. Agricultural Economics
2. Agricultural Education
3. Agricultural Engineering
4. Animal Production
5. Crop Production
6. Food science & Technology
7. Forestry
8. Range management
9. Soil Science

GENERAL INFORMATION:

Name: Home Economics Department
 Faculty of Education
 Mailing Kenyatta University College
 Address: P. O. Box 43844
 Nairobi
 Kenya

University Established in 19 56

Faculty Established in 19 56

Source of Financial Support:
 Ministry of Education (Kenya)

Send in-
 quiries to: Head of Department

Language(s) of Instruction:

English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs No
- The Academic Year begins in October
- and ends in July

M.Ed., Dip.Ed., B. Ed.
 Minimum Entrance Requirements
 for First Degree program:

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students		79	79
Ingenieur Agronome Students			
Advanced Degree Students		2	2
Total Number of Full-time Students		81	81

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B Ed.	M.Sc.	Doct.
Home Economics	11		
Total No. Graduates	11		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Academic Departments

Home Economics (a department of Faculty of Education)

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome		
M. Sc. Degree or Equivalent	8	
Doctoral Degree	1	
Total Number	9	

GENERAL INFORMATION:

Name: Embu Institute of Agriculture

Mailing Address: P. O. Box 6
Embu
Kenya

Send in-
quiries to: Principal

Year established: 1947

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>3</u>	<u>—</u>	<u>1</u>	<u>4</u>
Teaching	<u>7</u>	<u>6</u>	<u>2</u>	<u>15</u>
Technical	<u>10</u>	<u>—</u>	<u>—</u>	<u>10</u>
Total	<u>20</u>	<u>6</u>	<u>3</u>	<u>29</u>

STUDENTS AND CURRICULA:

1978/79	Male	<u>225</u>
STUDENT	Female	<u>75</u>
ENROLLMENT:	Total	<u>300</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:		
General Agriculture		<u>88</u>
General Home Economics		<u>35</u>
		<u>—</u>
		<u>—</u>
TOTAL		<u>123</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>95</u>
Teaching in Schools.....	<u>—</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u>—</u>
Agri-business firms.....	<u>—</u>
Farming or farm management.....	<u>—</u>
Entered nonagricultural employment.....	<u>—</u>
Continue their education.....	<u>—</u>
Unemployed.....	<u>—</u>
Other:	<u>—</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Bukura Institute of Agriculture

Mailing Address: P. O. Box 23
Bukura, Kakamega
Kenya

Send in-
quiries to: Principal

Year established: 1973

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Teaching	<u>12</u>	<u>8</u>	<u>—</u>	<u>20</u>
Technical	<u>9</u>	<u>—</u>	<u>—</u>	<u>9</u>
Total	<u>21</u>	<u>8</u>	<u>—</u>	<u>29</u>

STUDENTS AND CURRICULA:

1978/79	Male	<u>218</u>
STUDENT	Female	<u>99</u>
ENROLLMENT:	Total	<u>317</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Certificate in Agriculture

Graduates by Curricula in 1978:		
General Agriculture		<u>121</u>
Home Economics		<u>47</u>
		<u>—</u>
		<u>—</u>
TOTAL		<u>168</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>95</u>
Teaching in Schools.....	<u>—</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u>—</u>
Agri-business firms.....	<u>—</u>
Farming or farm management.....	<u>—</u>
Entered nonagricultural employment.....	<u>—</u>
Continue their education.....	<u>—</u>
Unemployed.....	<u>—</u>
Other:	<u>—</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Kenya Forestry College

Mailing Address: P. O. Box 8
Londiani
Kenya

Send inquiries to: The Principal

Year established: 1957

Source(s) of Support: Ministry of Natural Resources

STAFFING	B.S	B.S	B.S	Total
Administrative				
Teaching	7		3	10
Technical	1			1
Total	8		3	11

STUDENTS AND CURRICULA:

1978/79	Male	75
STUDENT	Female	-
ENROLLMENT:	Total	75

Minimum years of education required for entrance: 11 years

Qualifications awarded: Certificate & Diplomas

Graduates by Curricula in 1978:

Forestry:	3 years	12
	2 years	26
	TOTAL	38

Language(s) of instruction: English

Duration of courses: 2 and 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	_____
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: Ministry of National Resources	100
Forest Dept.	100%

GENERAL INFORMATION:

Name: Animal Health and Industry Training Institute

Mailing Address: P. O. Box 29040
Nairobi
Kenya

Send inquiries to: Registrar/Education Office

Year established: 1965

Source(s) of Support: Ministry of Livestock Development

STAFFING	B.S	E.S	B.S	Total
Administrative	2	3		5
Teaching	10	7		17
Technical	21			21
Total	33	10		43

STUDENTS AND CURRICULA:

1978/79	Male	270
STUDENT	Female	30
ENROLLMENT:	Total	300

Minimum years of education required for entrance: 11 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

Animal Health Course)	132
Range Management Course)	-
Hides and Skins Improvement Course)	-
	-
TOTAL	132

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	96.7
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	3.3
	100%

GENERAL INFORMATION:

Name: Egerton Agricultural College

Mailing P. O. Private Bag
Address: Njoro
Kenya

Send in-
quiries to: The Principal

Year established: 1938

Source(s)
of Support: Ministry of Agriculture, Fees, Farming

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>21</u>	<u>15</u>	<u>3</u>	<u>33</u>
Teaching	<u>25</u>	<u>21</u>	<u>27</u>	<u>73</u>
Technical	<u>45</u>			<u>45</u>
Total	<u>91</u>	<u>36</u>	<u>30</u>	<u>157</u>

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	<u>613</u>	<u>146</u>	<u>759</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	
Agricultural Education	<u>34</u>
General Agriculture	<u>119</u>
General Home Economics	<u>18</u>
Agricultural Mechanization	<u>24</u>
Veterinary Science	<u>50</u>
TOTAL	<u>245</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	<u>80</u>
Teaching in Schools.....	<u>15</u>
Technical staff at an educational or research institution... ..	<u>2</u>
Agric. development bank, cooperative, etc.	<u>1</u>
Agri-business firms.....	<u>2</u>
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	<u>100%</u>

LESOTHO

Lesotho, an independent member of the British Commonwealth, has an educational system which is based on a cooperative effort between the century-old missionary schools and the government. The system is based on a twelve-year plan, seven years of primary education and five years of secondary education.

Elementary Education

Children attend seven years of primary school. Traditionally, there has been a disproportionate number of students enrolled at the primary level, compared to the secondary level. For example, in 1960 there were 136,110 primary students in Lesotho, but only 1600 continued on to the secondary level. The problem is being attacked, however, by training more teachers. By 1975, 14,568 students advanced to the secondary level out of 218,033 primary level students.¹

Secondary Education

The five-year secondary program is divided into a three-year, junior secondary level and a two-year, higher secondary level. Students at the junior secondary level can study technical and commercial subjects. The Lerotholi Technical Institute at Maseru, for example, offers a three-year vocational course in mechanics, plumbing, carpentry and related subjects which culminates in a certificate from the City and Guilds of London Institute.

The higher secondary level two-year course leads to the Cambridge Overseas School Certificate. Other certificates are available, such as the three-year Secondary Teachers' Certificate offered by the National Teachers Training College, and the Agricultural Diploma (certificate level) given by the Lesotho Agricultural College at Maseru. Students wishing to obtain the Agricultural Diploma must have a Junior Certificate and have completed a primary teacher's course. The course of study includes six months of practical experience on a training farm and two years of academic and practical instruction.

Higher Education

Lesotho has a single university, the National University of Lesotho, established in 1945. The University offers the bachelor's degree, the master's degree and post-graduate work. Students may study education, law, art, administration, economics, science and agriculture. The University also offers diplomas and certificates at affiliated institutions, requiring two to three years of study. Students may earn diplomas in home economics, agriculture, law, theology, animal health, education and management and certificates in statistics and business studies.

All qualified individuals are admitted to the University. Possession of a Cambridge Overseas Certificate, a General Certificate of Education (GCE) or a matriculation certificate granted by the Joint Matriculation Board of the Republic of South Africa will enable a student to enter the University. All applicants must pass an English competency examination to qualify for the above three certificates.

¹The International Encyclopedia of Higher Education, 1977 ed. s.v. "Lesotho, Kingdom of."

AGRICULTURAL EDUCATION INSTITUTIONS IN LESOTHO

Principal
 Lesotho Agricultural College
 P. O. Box 829
 Maseru
 Lesotho
 Southern Africa

GENERAL INFORMATION:

Name: Lesotho Agricultural College
 Mailing Address: P. O. Box 829
 Maseru
 Lesotho
 Send in-
 quires to: The Principal

STUDENTS AND CURRICULA:

1978/79		Male	<u>50</u>
STUDENT		Female	<u>50</u>
ENROLLMENT:		Total	<u>100</u>

Minimum years of education
 required for entrance: 3 year J. C.

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:	
General Agriculture	<u>42</u>
General Home Economics	<u>26</u>
	<u> </u>
TOTAL	<u>68</u>

Year established: 1955

Source(s)
 of Support: Ministry of Agriculture plus
 UK/ODM Assistance

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>	<u> </u>	<u> </u>	<u>4</u>
Teaching	<u>10</u>	<u>10</u>	<u>3</u>	<u>23</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>14</u>	<u>10</u>	<u>3</u>	<u>27</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	<u>Percent</u>
Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

LIBERIA

The educational system of Liberia is patterned on that of the United States. It has been organized on the 6-3-3 system (6 years, primary; 3 years, junior high school; 3 years, senior high school). The educational system is centralized with levels from kindergarten to university. Responsibility for educational programs is shared by government, church and industry.

Elementary Education

Elementary schools offer a 6-year course that is similar in content to that in the United States. Elementary school enrollment has been growing rapidly since the early 1950's and although there are still areas where parents resist sending their children to school, generally facilities and staffing have not kept up with demand.

Secondary Education

At the secondary level the school system attempts to provide both academic and vocational education for students, but vocational education is a recent development; the program initiated in the 1950's has been slow in expanding, largely due to a lack of trained teachers. Academic secondary education is divided into junior and senior high school levels, each of 3 years' duration and one major objective is to prepare students for college. The course of study is virtually identical to that in the United States.

Vocational and Technical Education

All technical, nondegree-granting schools are considered to be secondary rather than higher education institutions. Booker Washington Institute is the oldest institution providing any kind of systematic vocational training in the country. The school has a 4-year program in agriculture, domestic and commercial sciences; textiles, building, electrical and mathematical trades; plumbing and machine shop. The kind and extent of vocational training conducted at regular high schools depend entirely on availability of teachers and equipment, both of which have been in short supply.

Boys studying vocational agriculture receive additional training through the Future Farmers of Liberia, with chapters at all secondary schools having agriculture programs. The organization is sponsored by the Department of Agriculture and Commerce and operates its training program in cooperation with the Department of Education.

Higher Education

Higher education in Liberia is based on a 4-year academic program with the first two years being devoted to general preparation courses and the final two years being devoted to specialized courses of study. The University of Liberia is the oldest institution of higher education, with Cuttington College and Our Lady of Fatima College being smaller institutions with limited programs. The University of Liberia does offer non-degree training in several technical fields, but these programs are considered to be secondary vocational education rather than higher education.

¹Area Handbook for Liberia. T.D. Roberts, I. Kaplan, B. Lent, D.H. Morrissey, C.M. Townsend and N.F. Walpole. The American University: Washington, DC, 1972.

AGRICULTURAL EDUCATION INSTITUTIONS IN LIBERIA

Dean
College of Agriculture and Forestry
University of Liberia
P.O. Box 9020
Monrovia
Liberia
West Africa

President
Booker Washington Agricultural
and Industrial Institute
P. O. Box 273
Kakata
Liberia
West Africa

President
Rural Development Institute
Cuttington University College
P.O. Box 77
Monrovia
Liberia
West Africa

GENERAL INFORMATION:

Name: College of Agriculture & Forestry

Mailing Address: University of Liberia
P. O. Box 9020
Monrovia
Liberia

Send in-quiries to: Dean

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

The Academic Year begins in March

and ends in December

University Established in 1951

Faculty Established in 1962

Source of Financial Support:
Government of Liberia (Ministry of Finance)

Language(s) of Instruction:
English

Degrees and Qualifications Awarded:
B.Sc. (General Agriculture, Forestry)

Minimum Entrance Requirements
for First Degree program:

High School Diploma, pass the University
Entrance Examination

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	38	4	42
Ingenieur Agronome Students	—	—	—
Advanced Degree Students	—	—	—
Total Number of Full-time Students	38	4	42

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric. Sciences (general)	11		
Forestry (general)	10		
Home Economics (minor in agric. sciences)	11		
Total No. Graduates	32		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	—	—
Ingenieur Agronome	—	—
M. Sc. Degree or Equivalent	19	1
Doctoral Degree	8	—
Total Number	27	1

Academic Departments

General Agriculture

General Forestry

Home & Community Development

Technical Training

Forestry

Wood Science and Technology

GENERAL INFORMATION:

Name: Booker Washington Agricultural and Industrial Institute
 Mailing Address: P. O. Box 273, Kakata
 Address: Liberia

Send inquiries to: The Principal

STUDENTS AND CURRICULA:

1978/79	Male	151
STUDENT	Female	59
ENROLLMENT:	Total	210

Minimum years of education required for entrance: 9 Years

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:

First Graduates of New Program 1981 and 1982	_____

TOTAL	_____

Year established: 1929

Source(s) of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	2	2
Teaching	—	2	2	4
Technical	3	—	—	3
Total	3	2	4	9

Language(s) of instruction: English

Duration of courses: 2 and 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	25
Teaching in Schools.....	1
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	1
Agri-business firms.....	3
Farming or farm management.....	10
Entered nonagricultural employment.....	15
Continue their education.....	25
Unemployed.....	20
Other: _____	—
	100%

GENERAL INFORMATION:

Name: Rural Development Institute
 Mailing Address: Cuttingham University College
 Address: P. O. Box 277, Monrovia
 Liberia

Send inquiries to: Director

STUDENTS AND CURRICULA:

1978/79	Male	79
STUDENT	Female	3
ENROLLMENT:	Total	82

Minimum years of education required for entrance: 12 Years

Qualifications awarded: Associate of Science Degree

Graduates by Curricula in 1978:

First Graduates in 1981	_____

TOTAL	_____

Year established: 1979

Source(s) of Support: USAID - OPG

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	1	1
Teaching	—	2	4	6
Technical	2	3	—	5
Total	2	5	5	12

Language(s) of instruction: English

Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	—
	100%

LIBYAN ARAB REPUBLIC

Pre-university education in Libya is based on the 6-3-3 year system. Before being admitted to the university, a student should have successfully finished six years of primary school, three years of preparatory school, and three of high school.

Elementary Education

Elementary education is not co-educational. Although education at this level is compulsory, all children do not enter the program at the same age. In urban areas the child may enter elementary education at age six; however, because of logistical reasons rural children may begin anytime between the ages of five and nine. Completion of the elementary cycle qualifies the pupil for entry into the preparatory program. Promotion beyond the elementary level is determined by examination.¹

Preparatory Education

The three year regular preparatory program generally is physically located with the three year secondary program. Efforts are being made to make this cycle of education compulsory. Non-academic programs in vocational, technical, and teacher education are being moved into the secondary cycle.¹

Secondary Education

Students may specialize at the secondary level by following either the literacy or scientific line. Libya was the first Arabic country to introduce the "new mathematics" in all secondary schools. Students are examined at the end of each year. If they are not successful in the first examination in June, they are permitted to retake the examinations in September. Failure the second time requires the student to repeat the year or prepare independently for the examination given the following June. Satisfactory completion of the general secondary school opens the door to higher education. The general attitude is that if students do not continue (particularly male students), this is defeating the purpose of general secondary education.¹

Vocational and Teacher Education

The urgency to produce teachers as rapidly as possible at the time of Libyan independence resulted in the establishment of post-elementary and post-preparatory teacher training institutes. The student in the post-secondary institute will have completed six years of elementary and three years of preparatory education. The program is of four years duration and provides for training in special fields. Vocational education programs are designed to train skilled workmen, artisans, and technicians at two levels. Lower-level training is available to graduates of the elementary school, while the upper-level admits only preparatory school graduates. Both programs are offered in the same location or facility. There are two Technical or Industrial Institutes, two Agricultural Institutes, three Institutes of Commerce, one Institute of Petroleum Technology and one Institute of Applied Engineering.¹

Higher Education

A secondary school certificate is the admission requirement to the university. Some faculties require a minimum general average or a minimum average in certain subjects, therefore, an applicant may not be admitted to the faculty of his/her first choice. The procedure is for every applicant to indicate his/her first, second, third, fourth, and fifth choices of faculties.

The first university in Libya was established in December 1955, when a Faculty of Arts was set up in Benghazi. This formed the nucleus of the University of Libya. The university has gradually expanded to include several faculties. In 1973, the University of Libya was divided into two universities: The University of Benghazi and Beida and the University of Tripoli.

However, in 1976 both universities were renamed: The University of Benghazi became the University of Gar Younis, and the University of Tripoli became El-Fatah University. It is expected that the faculties in Beida will be made into an independent university. With the exception of the faculty of engineering and the faculty of medicine, where the duration of the course is five years, the faculties have four-year degrees. The faculties of law, education, Arabic language and Islamic studies and arts grant the licence degree, equivalent to the bachelor's degree; all other faculties grant the bachelor's degree.²

¹American Association of Collegiate Registrars and Admissions Officers. AACRAO World Education Series, "Libya", by R. J. Hefling, 1972.

²International Encyclopedia of Higher Education, 1977 ed., s.v., "Libyan Arab Republic."

AGRICULTURAL EDUCATION INSTITUTIONS IN LIBYAN ARAB REPUBLIC

Dean
Faculty of Agriculture
University of Garyounis
P.O. Box 919, El Baida
Benghazi
Libyan Arab Republic
North Africa

Director
The Agricultural School
Al Aweiliya
Benghazi
Libyan Arab Republic
North Africa

Dean
Faculty of Agriculture
University of Al-Fateh
P.O. Box 13538
Tripoli
Libyan Arab Republic
North Africa

Director
Agricultural Secondary Institute
of Sebha
Sebha
Libyan Arab Republic
North Africa

Director
Agricultural Secondary Institute
of Awelia
Awelia-Marge
Libyan Arab Republic
North Africa

Director
Gherian Secondary Agricultural School
Gherian
Tripoli
Libyan Arab Republic
North Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture
 Mailing Address: University of Al-Fateh
 P. O. Box 13538
 Tripoli
 Socialist People's Libyan Arab
 Jamahiriya
 Send in-
 quiries to: Dean (Secretary of People's
 Committee)
 Institution accepts Foreign students for:
 (a) Academic Degree programs Yes
 (b) Educational Exchange programs No
 The Academic Year begins in September
 and ends in June

University Established in 1957
 Faculty Established in 1966
 Source of Financial Support:
 Secretariat of Education, Government of
 Libya
 Language(s) of Instruction:
 English, Arabic
 Degrees and Qualifications Awarded:
 B.Sc., M.Sc.
 Minimum Entrance Requirements
 for First Degree program:
 High School Certificate (Science or
 Agriculture Subjects)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	76	9	85
Ingenieur Agronome Students			
Advanced Degree Students	3		3
Total Number of Full-time Students	79	9	88

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric.Sciences	65		
Ag. Economics & Rural Sociology & Extension Ed.	16		
Animal Science	16		
Total No. Graduates	97		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome		
M. Sc. Degree or Equivalent	28	
Doctoral Degree	57	
Total Number	85	

Academic Departments
 Agr. Economics
 Section of Home Economics
 Agronomy
 Food Science
 Agr. Engineering
 Horticulture
 Soil and Water Science
 Plant Protection
 Animal Science
 Range and Forestry

DEMOCRATIC REPUBLIC OF MADAGASCAR

The educational system of Madagascar is based on the French model. The system consists of a six-year primary program, a seven-year secondary program, and a program of higher education offered by the University of Madagascar. Since gaining independence in 1960, Madagascar has attempted to provide universal education and to train the manpower needed to develop the country. A new, socialist oriented government, which came into power in 1975, has stated further goals of promoting social equality and implementing socialist ideals. To accomplish these goals, the government stated its intentions to restructure the university.

Elementary Education

Primary education is free and compulsory for children six years of age. The primary program is six years long and leads to the certificat d'études primaires élémentaires (CEPE). Instruction is given in Malagasy for the first two years and in French and Malagasy for the final four years.

Secondary Education

Secondary level study lasts seven years. A student must pass a competitive examination to qualify for secondary study, a process intended to identify the best students. The seven year program is divided into two segments. The first course is devoted to general education, (the enseignement court), and is four years long, leading to the BEPC (brevet d'études du premier cycle) or brevet élémentaire. After completing the BEPC, the student may enter a three-year program in technical or academic studies and earn a baccalauréat. The student may also enter a teacher training program of either six or eight years in length.

Higher Education

Higher education is provided by the University of Madagascar which is made up of faculties, ecoles and institutes. Students may study law and economics, sciences (including medicine), the humanities, as well as business, agriculture, education, linguistics, industrial technology, communications and physical education. A student may earn a licence in three or four years, depending upon the area of study and a maîtrise or a doctorat en droit with another year of study.¹ Students travel abroad to study subjects not offered by the university. Agricultural education is offered by the Ecole nationale supérieure agronomique and the Institut universitaire de technologie agricole. An ingénieur des techniques de l'agriculture is awarded in three years and an ingénieur agronome in four.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Democratic Republic of Madagascar."

AGRICULTURAL EDUCATION INSTITUTIONS IN MADAGASCAR

Doyen
Ecole Nationale Supérieure Agronomique
University of Madagascar
B.P. 175, Ambohitsana
Antananarivo
Madagascar
East Africa

Directeur
Lycee Agricole de Fianarantsoa
B.P. 1271
Fianarantsoa
Madagascar
via East Africa

Directeur
Lycee Agricole d'Amboanja
B.P. 36
Amboanja
Madagascar
via East Africa

Directeur
Lycee Agricole de Majunga
B.P. 495
Mahajanga
Madagascar
via East Africa

Directeur
Lycee Agricole d'Ambatobe
B.P. 1411
Antananarivo
Madagascar
via East Africa

Directeur
Lycee Agricole de Manakara
B.P. 101
Manakara
Madagascar
via East Africa

Directeur
Lycee Agricole de Bezaha
Ezaha
Madagascar
via East Africa

Directeur
Lycee Agricole de Tamatave
B.P. 402
Tamatave
Madagascar
via East Africa

GENERAL INFORMATION:

Name: Lycée Agricole d'Ambanja

Mailing Address: B. P. 36, Ambanja
Madagascar

Send inquiries to: Directeur

Year established: 1970

Source(s) of Support: Ministère de L'agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	1	—	—	—
Teaching	4	—	—	—
Technical	—	—	—	—
Total	5	—	—	5

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	27	—	27

Minimum years of education required for entrance: 10 years

Qualifications awarded: B.T.A. (Brevet de Technicien Agricole)

Graduates by Curricula in 1978:	Education (Formation d'Enseignants Diplômés)
	18
TOTAL	18

Language(s) of instruction: Français et Malagasy

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	70
Entered nonagricultural employment.....	30
Continue their education.....	—
Unemployed.....	—
Other:	—
	100%

GENERAL INFORMATION:

Name: College Agricole d'Ambatobe **

Mailing Address: S.P. 1411
Antananarivo
Madagascar

Send inquiries to: Directeur

Year established: 1968-1969

Source(s) of Support: Ministère de l'agriculture et FED, Fonds de la cooperative Acolaire (Fruits de l'exploitation Agricole)

STAFFING	<B.S	B.S	>B.S	Total
Administrative	5	—	—	5
Teaching	4	—	—	4
Technical	—	—	—	—
Total	9	—	—	9

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	—	—	—

Minimum years of education required for entrance: 9 years

Qualifications awarded: Technicien Agricole

Graduates by Curricula in 1978:	
Agriculture générale	26
Elevage	12
Agronomie	10
Mechanisation Agricole	4
TOTAL	52

Language(s) of instruction: Malagasy - Français

Duration of courses: 2 ans.

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	65
Teaching in Schools.....	1
Technical staff at an educational or research institution.....	5
Agric. development bank, cooperative, etc.	5
Agri-business firms.....	—
Farming or farm management.....	3
Entered nonagricultural employment.....	1
Continue their education.....	20
Unemployed.....	—
Other:	—
	100%

** Supprimé en avril 1980

REPUBLIC OF MALAWI

Education in Malawi is based on a modified British model, consisting of an eight-year primary program and a four-year secondary program. The University of Malawi, established in 1964, two years before the country gained its independence, provides higher level education.

Elementary Education

Primary education is not compulsory in Malawi, and the student must pay a fee to attend school. The fee, however, is remitted for primary students to assist with their other educational expenses. The eight-year course is taught in English and culminates in the Primary School Leaving Certificate.

Secondary Education

The four-year secondary program is divided into two portions, a two-year course of general study ending in the Junior Certificate, and a second two-year course resulting in the Malawi Certificate of Education which is comparable to the General Certificate of Education (GCE) at ordinary level. Students may elect to remain an additional two years and earn another secondary certificate which is equivalent to the GCE at the advanced level. The cost of secondary schooling is partially alleviated by private donation and government assistance. Individuals may earn primary and secondary certificates through correspondence study.

Higher Education

The University of Malawi consists of three colleges: the Chancellor College at Zomba, Bunda College of Agriculture at Lilongwe and Malawi Polytechnic at Blantyre. Degrees can be earned at the bachelor, master's and doctoral levels. Four-year bachelor's degrees can be earned in agriculture, arts, science and public administration, while five-year degrees can be earned in law and education. Master and doctoral degrees are available in the area of education, the arts, social science, science and agriculture. Three-year diplomas are also offered in agriculture, business studies, education, engineering, laboratory technology, public administration and public health.¹

¹The International Encyclopedia of Higher Education, 1977 ed. s.v. "Malawi, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN MALAWI

Dean
Colby College of Agriculture
P.O. Box 158
Lilongwe
Malawi
East Africa

Principal
Forest Ranger's School
Chongoni, P.O. Box 6
Dedza
Malawi
Africa

Principal
Bunda College of Agriculture
University of Malawi
P.O. Box 219
Lilongwe
Malawi
East Africa

Principal
Mikolongwe Veterinary College
P.O. Box 5193
Limbe
Malawi
East Africa

GENERAL INFORMATION:

Name: University of Malawi
 Mailing Address: Bunda College of Agriculture
 P. O. Box 219
 Lilongwe
 Malawi

Send inquiries to: Principal

Institution accepts Foreign students for:
 (a) Academic Degree programs No
 (b) Educational Exchange programs

The Academic Year begins in September
 and ends in July

University Established in 19 65
 Faculty Established in 19 66

Source of Financial Support:
 Ministry of Education and Malawi Government

Language(s) of Instruction:
 English

Degrees and Qualifications Awarded:
 B.Sc. Agriculture

Minimum Entrance Requirements
 for First Degree program:
 Five Credits at School Certificate

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	70	9	79
Ingenieur Agronome Students			
Advanced Degree Students			
Total Number of Full-time Students	70	9	79

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric.Sciences	26		
Total No. Graduates	26		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

<u>Level of Education</u>	<u>Full-time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	7	
Ingenieur Agronome		
M. Sc. Degree or Equivalent	20	
Doctoral Degree	19	
Total Number	46	

Academic Departments
 Agricultural Engineering
 Crop Production
 Livestock Production
 Rural Development

REPUBLIC OF MALI

The educational system of Mali consists of a nine-year basic education program, a three-year secondary program and opportunities for higher education. The current program is the result of extensive reforms initiated in 1962, two years after independence. Some elements of the old French-based system have been retained in the new system. Enrollment has increased rapidly since independence and government interest in education is high. However, the lack of financial resources, which have been complicated by the Sahelian drought, have made it impossible for the government to provide enough schools or teachers for all students.

Basic Education

Mali's presecondary educational program is called basic education and is nine years long. It is divided into two cycles, the first cycle is six years in length and the second is three years in length. Students are examined at the end of the first cycle and receive the diplôme de fin d'études du premier cycle. Those who receive the diplôme may advance to the second cycle. After completing the second cycle, students are again examined to earn the diplôme d'études fondamentales. Selection of the best students is made at the sixth and ninth year to determine which should continue on to higher education.¹

Secondary Education

The program of secondary education is three years long. Students enter one of three schools and pursue different areas of study. First is the general secondary school, which leads to the baccalauréat, for those students continuing toward higher education; second, the lycée techniques are technical high schools where students earn the baccalauréat technique; and third are professional training schools, which prepare students for work in agriculture, industry, commerce and the health field.

Higher Education

The baccalauréat or its equivalent and the satisfactory completion of a competitive examination are required for admission to the institutions of higher education in Mali. There are four colleges, each geared toward a specific discipline. The Higher Teacher Training College offers courses in teaching methodology, sciences and the humanities. The Rural Polytechnic Institute trains rural engineers and agronomists in agriculture, animal husbandry, hydrology and forestry. The National School of Engineers prepares industrial engineers. The School of Medicine, Pharmacy and Dentistry trains medical personnel; and the National School of Administration trains government administrative workers.

The course of study is six years long and earns the student a diplôme, equivalent to the French maitrise. The doctorat can be earned in the fields of education and management, in the Center of Higher Pedagogical Study and the Institute of Productivity and Management Studies, respectively.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Mali."

AGRICULTURAL EDUCATION INSTITUTIONS IN MALI

Directeur
Institut Polytechnique Rurale de Katib.
B. P. 6
Koulikoro
Mali
Western Africa

Directeur
Ecole des Assistants d'Elevage et Veterinaries
B.P. 224
Bamako
Mali
Western Africa

GENERAL INFORMATION:

Name: Institut Polytechnique Rural De Katib.

Mailing Address: B. P. 6
Koulikoro
Mali

Send inquiries to: Directeur des Etudes

Institution accepts foreign students for:

- (a) Academic Degree programs Oui
 (b) Educational Exchange programs Oui, et non partiellement
 The Academic Year begins in Octobre
 and ends in Septembre

University Established in 19

Faculty Established in 1960

Source of Financial Support:
Budget National

Language(s) of Instruction:
Francais (Anglais, Russe)

Degrees and Qualifications Awarded:
Diplom de Technicien Supérieur, Diplome
d'Ingenieur des Sciences Appliquees,
Minimum Entrance Requirements Diplome de
for First Degree program: Docteur, Ingenieur
(3e cycle)
Le Baccalaureat + 4 Années d'étude

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	<u>293</u>	<u>34</u>	<u>327</u>
Advanced Degree Students	<u>21</u>	_____	<u>21</u>
Total Number of Full-time Students	<u>314</u>	<u>34</u>	<u>345</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Ing.Sc.	M.Sc.	Doct.
Agric.Sciences	80		
Animal Science	51		
Water and Forestry	31		
Total No. Graduates	162 *		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	<u>Full-time faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	<u>26</u>	<u>10</u>
Doctoral Degree	<u>17</u>	<u>6</u>
Total Number	<u>43</u>	<u>16</u>

Academic Departments

Enseignement et Recherche des Sciences de base
 Enseignement et Recherche Sc. Eco et Soc.
 Enseignement et Recherche des Eaux et Forets
 Enseignement et Recherche de l'Elevage
 Enseignement et de Recherche Agronomique
 Enseignement et de Recherche (D.E.R.)

* Avec l'exception des Techniciens Supérieurs.

GENERAL INFORMATION:

Name: Institut Polytechnique Rural de Katib.

Mailing Address: B. P. 6
Koulikoro
Mali

Send in-quiries to: Directeur des etudes

STUDENTS AND CURRICULA:

1978/79	Male	<u>721</u>
STUDENT	Female	<u>100</u>
ENROLLMENT:	Total	<u>821</u>

Minimum years of education required for entrance: Brevet d'etude de Premier Cycle

Qualifications awarded: Diplome de technicien Superieur *

Graduates by Curricula in 1978:	
Agriculture	<u>115</u>
Animal Science	<u>58</u>
Forestry and Water	<u>56</u>
Agronomy	<u>18</u>
TOTAL	<u>247</u>

* Besides other Higher Educational Programs of the Institute included in Higher Education Directory

Year established: 1966

Source(s) of Support: Budget National

STAFFING	<B.S	B.S	>B.S	Total
Administrative	---	---	---	---
Teaching	---	---	<u>43</u>	<u>43</u>
Technical	---	---	---	---
Total	---	---	<u>43</u>	<u>43 **</u>

Language(s) of instruction: Francais (Anglais, Russe

Duration of courses: 4 years

EMPLOYMENT OF GRADUATES:

	<u>Percent</u>
Government Extension Service.....	---
Teaching in Schools.....	---
Technical staff at an educational or research institution.....	---
Agric. development bank, cooperative, etc.	---
Agri-business firms.....	---
Farming or farm management.....	---
Entered nonagricultural employment.....	---
Continue their education.....	---
Unemployed.....	---
Other:	---
	<u>100%</u>

** - Plus 32 part-time Teachers

ISLAMIC REPUBLIC OF MAURITANIA

The educational system of Mauritania is based on the French model consisting of a five-year primary program, a six-year secondary program, and limited higher education opportunities. Since gaining independence in 1960, there has been a considerable increase in the numbers of students enrolled in the primary and secondary programs, the number growing from 7,500 primary and 1,000 secondary students in 1970 to 49,000 primary and 5,688 secondary students in 1975.¹ Attempts to provide primary and secondary education to all groups have been frustrated because of the difficulty in delivering instruction to the large nomadic population.

Since the early 1970's, efforts have been made to emphasize Mauritania's Arab-Islamic cultural heritage. Reforms include the policy of using Arabic as the language of instruction, the sole language used in the first two years of primary school since 1974. Textbooks are also being written by Mauritians, and efforts are being made to train native teachers. Emphasis is also being placed on technical education to meet national needs.

Elementary Education

Primary education requires five years of study, the first two taught in Arabic and the final three in French. Course content is basic and comprehensive, leading to secondary level work.

Secondary Education

A student must participate successfully in a competitive examination to enter the secondary level. Secondary study is divided into various programs. Those students qualifying for and interested in academic study enroll in a six-year lycée and earn a baccalauréat. The lycée's program is divided into an upper and lower cycle. Other students prepare to enter the professional and technical fields by attending one of a variety of institutions. Four-year collèges techniques offer a terminal certificate. Those enrolled in a lycée technique may prepare for the baccalauréat examination with technical emphasis and continue on to the higher education level. The Ecole nationale d'enseignement commercial et familial, Centre de formation professionnelle, and Centre de formation et de vulgarisation agricole also train students in the area of business and family education, professional careers, and agricultural extension.

Higher Education

Opportunity for higher education is limited in Mauritania, although plans are being made to open more institutions. The Ecole normale supérieure trains lower level secondary teachers and primary school inspectors. Courses are offered in education, the humanities, and the human and natural sciences. The Ecole nationale d'administration offers study in law, administration and economics, while the Institute of Islamic Studies provides a traditional Islamic curriculum. As of 1975, there were no higher institutions devoted to agriculture.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Islamic Republic of Mauritania."

AGRICULTURAL EDUCATION INSTITUTIONS IN MAURITANIA

Directeur
Ecole Nationale de Formation et de
Vulgarisation Agricole
B.P. 37
Kaedi
Mauritania
Africa

MAURITIUS

The educational system of Mauritius is principally British based, but elements of the French model are also present, reflecting the occupation and influence of both countries. Higher education is characterized by an unusual degree of pragmatism in response to the development needs of the islands. Training personnel for positions in agriculture and the sugar industry is an important part of the educational activity. The primary and secondary school programs are each six years long and are not compulsory. The University of Mauritius offers higher education in technical subjects and in teacher training.

Elementary Education

The primary school program is six years long and is open to children between the ages of five to twelve. Primary education is free.

Secondary Education

Secondary education is offered primarily by missionary institutions and, to a lesser degree, by government and private schools. All schools are required to meet government standards. Secondary education lasts six years and, depending upon the school, offers the following certificates: the Cambridge Overseas School Certificate; the Cambridge Overseas Higher School Certificate; and the General Certificate of Education (GCE) at both the ordinary and advanced level. There are also a few technical and vocational institutions at the secondary level.

Higher Education

Higher education is offered by the University of Mauritius in technical areas and by the Teacher Training College. Students may earn a certificate, a diploma or a bachelor's degree. Possession of the Cambridge Overseas School Certificate or the GCE at the ordinary or advanced level will admit students to the university. Upper level certificates are required for the degree programs, while the lower level diplomas and certificate programs accept lower level certificates.

Students may enter one of three university bachelor's degree programs: the Bachelor of Technology; the Bachelor of Arts in Administration; and the Bachelor of Science in Agriculture. In general, a bachelor's degree requires three years of study and a written report or dissertation.

Agriculture is given heavy emphasis in the Mauritius higher education system. The Bachelor of Science in Agriculture, the Diploma in Agriculture and Sugar Technology and various certificate courses are offered. Practical training and work experience are an important part of the curriculum. The master's and doctorate may also be earned in the school of agriculture.

Primary teachers are educated at the Teacher Training College in a two-year program which consists of a year of classroom study and a year of practical training. Graduates earn a certificate. The Institute of Education trains secondary level teachers. There are additional postsecondary institutions which offer training in vocational and technical areas.

International Encyclopedia of Higher Education, 1977 ed., s.v. "Mauritius."

AGRICULTURAL EDUCATION INSTITUTIONS IN MAURITIUS

Head
School of Agriculture
University of Mauritius
Rduit
Mauritius
via East Africa

Director
Mauritius Institute of Education
Rduit
Mauritius
via East Africa

GENERAL INFORMATION:

Name: School of Agriculture
 University of Mauritius
 Mailing Address: Reduit
 Mauritius

University Established in 19 65

Faculty established in 1968

Source of Financial Support:
 Government of Mauritius

Send in-
 quires to: Head

Language(s) of Instruction:
 English

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs No

Degrees and Qualifications Awarded:
 B.Sc. (Hons) Ag.; M. Phil. by
 research, Ph.D.

The Academic Year begins in September
 and ends in July

Minimum Entrance Requirements
 for First Degree program:

Higher School Certificate; General
 Certificate of Education (advanced level)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	2	3	5
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	2	3	5

Number of 1979 Graduates by
 Curricula and Academic Level:

Curricula	B.Sc.	MPhil.	Doct.
Agric.Sciences	5		
Total No. Graduates			
	5		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
 Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	1	_____
M. Sc. Degree or Equivalent	9	_____
Doctoral Degree	6	_____
Total Number	16	_____

Academic Departments
 Agricultural Botany
 Agricultural Chemistry
 Agricultural Management
 Agricultural Production
 Crop Production
 Agricultural Zoology

GENERAL INFORMATION:

Name: Mauritius Institute of Education

Mailing Address: Reduit
Mauritius

Send in-quiries to: Secretary

Year established: 1973

Source(s) of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative		6	2	8
Teaching	5	2	3	10
Technical			1	1
Total	5	8	6	19

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	21	35	56

Minimum years of education required for entrance: 11 - 13 years

Qualifications awarded: Teachers' Diploma

Graduates by Curricula in 1978:

Agriculture Education	24
Home Economics Education	13
TOTAL	37

Language(s) of instruction: English

Duration of courses: 2 - 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	_____
Teaching in Schools.....	100
Technical staff at an educational or research institution.....	_____
Agric.development bank,cooperative,etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	100%

KINGDOM OF MOROCCO

Morocco, along with other North African countries, is engaged in an effort to create an educational system which will serve her needs, economically, socially and culturally. Facing problems of a high illiteracy rate, a need for trained personnel and a growing school age population, a Five-Year Development Plan aimed at founding more institutions of higher learning and initiating a thrust toward training individuals in the scientific and technical areas was initiated in 1973. Changes have also been made in the primary and secondary programs to accommodate Moroccan culture, although elements of the French model are retained in the educational system. Substantial efforts are being made to make Arabic the primary language of instruction in all levels and to install Moroccan nationals as teachers for all students.

Elementary Education

The efforts to combine both Western and Moroccan culture in the educational system are evident at the primary level. Parents may send their children to traditional Koranic schools between the ages of five and seven. At seven, the children enter primary school earning the Certificate of Primary Studies upon completion. The Certificate is a prerequisite for secondary study.

Secondary Education

The program of secondary study is divided into two parts, a four-year first cycle and a three-year second cycle. A student is awarded a Certificate of Secondary Education at the end of the first cycle. The second cycle is divided into two tracks, one emphasizing science and the other emphasizing literature. Students are awarded the baccalauréat upon completion of the second cycle. Future plans call for the development of the second cycle to include middle technical and vocational schools, and college preparatory schools.

Higher Education

Higher education also reflects the Western and traditional aspects of the Moroccan educational system. Al-Qarawiyyin University, established in the ninth century, offers traditional programs in Islamic law, Arabic language and literature, and Islamic studies. Modern subjects are pursued at Mohammed V University whose main campus is located in Rabat where science, medicine, law, arts and humanities, social science and economics are taught. Branches in Fez and Casablanca have a more limited program. Normally the first degree requires four years of study and leads to the licence. More specialized studies such as engineering and medicine are longer. Second level diplomas, the diplôme d'études supérieures can be earned in two years after the licence, and doctoral level degrees, the doctorat du troisième cycle or doctorat d'état may also be pursued. A baccalauréat and an entrance examination are the admission requirements for university study.¹

Another opportunity for postsecondary study lies in the twenty-five institutions operated by various government ministries. A wide range of training is offered in a number of areas including agriculture, veterinary medicine, merchant marine, journalism, communication, tourism, environment and medical technology. For example, the Ministry of Agriculture and Agrarian Reform operates three specialized institutes: the National School for Forestry in Sala; the Hassan II Institute of Agronomy and Veterinary Science at Rabat; and the National School for Agriculture in Meknes. Programs operated by government ministries last between three to five years and lead to a diploma or a certificate. Teacher training for primary school takes place in eighteen regional schools, while those training to be secondary teachers enter the university.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Kingdom of Morocco."

AGRICULTURAL EDUCATION INSTITUTIONS IN MOROCCO

Directeur
Ecole Nationale d'Agriculture (E.N.A.)
Meknes
Morocco
North Africa

Directeur
Ecole d'Agriculture 'Elouizia
B.P. 55
Mohamadia
Par Casablanca
Morocco
North Africa

Directeur
Institut Agronomique et Veterinaire Hassan II
B.P. 704,
Rabat, Agdal
Morocco
North Africa

Directeur
Ecole de Mecanique Agricole de Sidi-Bouknadel
Par Sale
Morocco
North Africa

Directeur
Ecole National Forestiere d'Ingenieurs (ENFI)
Sale
Morocco
North Africa

Directeur
Ecole Royale Forestiere
Sale, Par Rabat
Morocco
North Africa

Directeur
Ecole Royale d'Elevage de Fouarat
Kenitra
Morocco
North Africa

Directeur
Ecole d'Agriculture de Souihla
Marrakech
Morocco
North Africa

Directeur
Ecole de Genie Rurale et de Topographie de Meknes
B. P. 4003
Meknes
Morocco
North Africa

Directeur
Ecole d'Horticulture
B.P. 4002
Meknes
Morocco
North Africa

Directeur
Ecole d'Agriculture de Zraib
Par Berkane
Morocco
North Africa

GENERAL INFORMATION:

Name: Institute Agronomique & Veterinaire
Hassan II
Mailing Address: B. P. 704
Rabat
Agdal
Morocco

Send in-
quiries to: Directeur

Institution accepts Foreign students for:

- (a) Academic Degree programs
- (b) Educational Exchange programs

The Academic Year begins in

and ends in

University Established in 19

Faculty Established in 19 66

Source of Financial Support:

Ministry of Agriculture

Language(s) of Instruction: French
French

Degrees and Qualifications Awarded:
Diplôme d'ingenieur d'etat ou d'ingenieur
d'application

Minimum Entrance Requirements
for First Degree program:

12 years sanctionnées par le baccaloeat
scientifique obligatoire

STUDENTS AND GRADUATES:

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	---	---	---
Ingenieur d'applic. Students	588	41	629
Advanced Degree Students	632	36	668
Total Number of Full-time Students	1220	77	1297

Number of 1980 Graduates by
Curricula and Academic Level:
Ing. d'App- 3ème
Curricula B.Sc. iication Cycle

Ag.Machinery & Irrigation	81	17
Forestry	38	10
Animal Husbandry	63	2
Agriculture	156	14
Horticulture	37	3

Total No. Graduates 375 46

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	5	---
ingenieur Agronome	30	---
M. Sc. Degree or Equivalent	164	---
Doctoral Degree	30	---
Total Number	229	---

Academic Departments

1. Agronomie)
2. Industries Agricoles)
3. Technologie du bois) 6 years
4. Medicine Veterinaire)
5. Technologie Alimentaire
6. Travaux Ruraux
7. Topographie
8. Machine Agricole
9. Horticulture
10. Amenagement des espaces Verts
11. Phytatrie
12. Halieutique
13. Techniques et development
14. Elevage
15. Eaux et Forets

GENERAL INFORMATION:

Name: Ecole National d'Agriculture de Meknes

Mailing Address: Meknes Morocco

Send inquiries to: Directeur

Institution accepts Foreign students for:

- (a) Academic Degree programs
- (b) Educational Exchange programs

The Academic Year begins in _____ and ends in _____

University Established in 19 _____

Faculty Established in 1945

Source of Financial Support: Ministry of Agriculture

Language(s) of Instruction: French

Degrees and Qualifications Awarded: Diplome d'ingenieur

Minimum Entrance Requirements for First Degree program:

Sanctionnees par le baccaloret scientifique obligatoire

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	222	12	234
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	222	12	234

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Ag. Ing. (Diplome)	M.Sc.	Doct.
Techniques et Developement	44		
Elevage	16		
Total No. Graduates	60		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	_____	_____
Doctoral Degree	_____	_____
Total Number:	N A.	_____

Academic Departments

Techniques et Developement
Elevage

GENERAL INFORMATION:

Name: Ecole Nationale Forestiere d'Ingenieurs

University Established in 19

Mailing Address: Sale Morocco

Faculty Established in 19 68

Source of Financial Support:
Ministère de l'Agriculture

Send inquiries to:

Language(s) of Instruction:
Français

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
Diplôme d'Ingenieur d'Application
des Eaux et Forêts
Minimum Entrance Requirements
for First Degree program:
13 years

- (a) Academic Degree programs
 - (b) Educational Exchange programs
- The Academic Year begins in _____
and ends in _____

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	96		96
Ingenieur Agronome Students			
Advanced Degree Students			
Total Number of Full-time Students	96		96

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Diplôme d'Ingenieur	M.Sc.	Doct.
Forestiere (Sylviculture)	26		
Total No. Graduates	26		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	2	
Ingenieur Agronome	2	
M. Sc. Degree or Equivalent	9	
Doctoral Degree	1	
Total Number	14	

Academic Departments

GENERAL INFORMATION:

Name: Ecole d'Agriculture de Zraib

Mailing Address: Par Berkane Morocco

Send inquiries to: Directeur

Year established: 1965

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	4			4
Teaching	10		1	11
Technical			2	2
Total	14		3	17

STUDENTS AND CURRICULA:

1978/79	Male	100
STUDENT	Female	
ENROLLMENT:	Total	100

Minimum years of education required for entrance: 11 years

Qualifications awarded: Diplome D'Adjoint Technique

Graduates by Curricula in 1978:

Agronomy	33
TOTAL	33

Language(s) of instruction: Arabic, French

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	
Teaching in Schools.....	10
Technical staff at an educational or research institution.....	10
Agric. development bank, cooperative, etc.	
Agri-business firms.....	
Farming or farm management.....	60
Entered nonagricultural employment.....	10
Continue their education.....	10
Unemployed.....	
Other:	
	100%

GENERAL INFORMATION:

Name: Ecole du Genie Rural et de Topographie de Meknes

Mailing Address: B. P. 4003 Meknes Morocco

Send inquiries to: Le Directeur

Year established: 1969

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative			1	1
Teaching		9	1	10
Technical	5			5
Total	5	9	2	16

Language(s) of instruction: Francais

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	80
Teaching in Schools.....	10
Technical staff at an educational or research institution.....	
Agric. development bank, cooperative, etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	10
Unemployed.....	
Other:	
	100%

STUDENTS AND CURRICULA:

1978/79	Male	122
STUDENT	Female	25
ENROLLMENT:	Total	147

Minimum years of education required for entrance: 12 - 13 years (1) 10 years (2)

Qualifications awarded: 1) Diplome Adjoint Technique Genie Rural ou 2) Topographie.

Graduates by Curricula in 1978:

Genie Rural	24
Topographie Adjoint Techniques	24
Topographie Agents Techniques	38
TOTAL	86

GENERAL INFORMATION:

Name: Ecole d'Horticulture

Mailing B. P. 4002
Address: Meknes
Morocco

Send in-
quiries to: Directeur de l'ecole

STUDENTS AND CURRICULA:

1978/79	Male	<u>100</u>
STUDENT	Female	<u>20</u>
ENROLLMENT:	Total	<u>120</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Diplome D'Adjoint
Technique de L'E.H.M.
Graduates by Curricula in 1978:

Horticulture	<u>47</u>
	<u> </u>
	<u> </u>
TOTAL	<u>47</u>

GENERAL INFORMATION:

Name: Ecole d'Agriculture d'Ellouizia

Mailing B. P. 55
Address: Mohammadia
Morocco

Send in-
quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>127</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>127</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Diplôme D'Adjoint
Technique Agricole
Graduates by Curricula in 1978:

General Agriculture	<u>67</u>
	<u> </u>
	<u> </u>
TOTAL	<u>67</u>

Year established: 1952

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>6</u>	<u>1</u>	<u> </u>	<u>7</u>
Teaching	<u>5</u>	<u>2</u>	<u> </u>	<u>7</u>
Technical	<u> </u>	<u>3</u>	<u>1</u>	<u>4</u>
Total	<u>11</u>	<u>6</u>	<u>1</u>	<u>18</u>

Language(s) of instruction: French

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>50</u>
Teaching in Schools.....	<u>10</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u>5</u>
Agri-business firms.....	<u>10</u>
Farming or farm management.....	<u>25</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

Year established: 1951

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u>1</u>	<u> </u>	<u>2</u>
Teaching	<u>6</u>	<u>7</u>	<u>3</u>	<u>16</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>7</u>	<u>8</u>	<u>3</u>	<u>18</u>

Language(s) of instruction: French

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>46.5</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u>20.0</u>
Agri-business firms.....	<u>8.5</u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u>25.0</u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Ecole Mecanique Agricole de Sidi-Bouknadel

Mailing Address: Par Sale Morocco

Send in-quiries to: M. Le Directeur

Year established: 1971

Source(s) of Support: Ministère de L'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	28			28
Teaching	14	2	1	17
Technical	2		1	3
Total	44	2	2	48

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	91		91

Minimum years of education required for entrance: 11 years

Qualifications awarded: Diplôme d'Adjoint Technique

Graduates by Curricula in 1978:	
Agricultural Mechanization	42
TOTAL	42

Language(s) of instruction: Francaise

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	90
Teaching in Schools.....	10
Technical staff at an educational or research institution.....	
Agric.development bank,cooperative,etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	
	100%

PEOPLE'S REPUBLIC OF MOZAMBIQUE

The educational system of Mozambique is undergoing revision since becoming independent from Portugal in 1975. The government has ordered that education shall be a primary concern, and that the educational programs be altered to center on the culture of Mozambique rather than on Portugal, as was formerly the case. Emphasis is being placed on vocational, technical and agricultural training to meet the country's needs. Attempts are also being made to reduce adult illiteracy. There is a severe teacher shortage; created in part when many Portuguese teachers left the country when independence was declared. As a result, teacher training is emphasized. Soon after independence the government nationalized all schools, including the extensive missionary school system. Efforts are being made to deliver an equal education to all Mozambique children by eradicating the African "adaptation" schools which provided an inferior education and replacing them with standard primary schools offering a better quality education. The school system is still largely based on the Portuguese model and Portuguese is used as the language of instruction.

Elementary Education

Primary education is four years long. A carta de ensino (lower elementary certificate) is given after the third year, and a carta de ensino primario de segundo grau after the fourth. The primary schools offer a program which includes arithmetic, geography, natural sciences, physical education and domestic training.

Secondary Education

Secondary education is divided into three areas of study: the lyceum or more traditional academic program leading to higher education; technical and vocational work; and agricultural training. The lyceum requires seven years of study and is divided into three cycles: the two-year primeiro ciclo or first cycle; the three-year segundo ciclo, or second cycle; and the final two-year terceiro ciclo, or third cycle. The first two cycles provide a general education, while the third cycle prepares students for university study. A student must pass an entrance examination, possess a carta de ensino primario de segundo grau, and be at least ten years old to enter the lyceum. A student completing the entire lyceum course will receive a carta do curso geral dos liceus (Certificate of General Education) at the end of the fifth year, and the carta do curso complementar liceus at the end of the seventh year.

Students entering the technical schools must pass an entrance examination and have completed four years of primary school. Programs in technology, commerce and industry last from two to five years. Agricultural institutes train technicians, agricultural assistants and land development officers.¹

Higher Education

The University of Lourenço Marques provides higher level education in Mozambique. Since independence, the university has been engaged in a re-orientation process turning toward competency-based education to better serve the practical needs of the country. Admission requirements are being reevaluated. Traditionally, a prospective student had to pass an entrance examination and possess a carta do curso complementar. A student may earn a bacharelado, a licenciatura and a doctorate. Programs are offered in education, engineering, agronomy, forestry, geology, administration, economics, political science and veterinary medicine.

¹International Encyclopedia of Higher Education, 1977 ed., s.v., "People's Republic of Mozambique."

AGRICULTURAL EDUCATION INSTITUTIONS IN MOZAMBIQUE

Head
Faculty of Agriculture and Forestry
Universidade Lourenco Marques
P.O. Box 257
Maputo
Mozambique
East Africa

Head
Faculty of Veterinary Medicine
Universidade Lourenco Marques
P.O. Box 257
Maputo
Mozambique
East Africa

Director
Escola Practica de Agricultura do Limpopo
S. Jorge do Limpopo
Mozambique
East Africa

Namibia

From 1920 to 1966 Namibia was administered as a fifth Province (South West Africa) by the Union of South Africa under a mandate from the League of Nations. Although the United Nations terminated the mandate in 1966 South Africa has continued de facto rule of the territory. As a result the educational systems for both whites and non-whites closely match South Africa's systems with the addition of German as a third official language for whites. Since Namibia is now a United Nations Trust Territory moving toward independence, some changes have been made in the educational system as Namibian assemblies have legislated racial desegregation. While it is difficult to assess how many of these changes have been implemented to date, it is expected that when Namibia achieves independence, considerable progress will be made to increase educational opportunities for the black population in Namibia.

AGRICULTURAL EDUCATION INSTITUTIONS IN NAMIBIA

Principal
Mashare Agricultural College
P.O. Rundu, 9255
Namibia
via South Africa

Principal
Ogongo Agricultural College
Private Mail Bag 2011
Ondangua, 9276
Namibia
via South Africa

GENERAL INFORMATION:

Name: Ogongo Agricultural College

Mailing Address: Private Mail Bag 2011
Ondangwa 9276
Namibia
via South Africa

Send inquiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>7</u>
STUDENT	Female	<u>4</u>
ENROLLMENT:	Total	<u>11</u>

Minimum years of education required for entrance: 10 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	
Agricultural Extension	<u>6</u>
	<u> </u>
	<u> </u>
	<u> </u>
TOTAL	<u>6</u>

Year established: 1972

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative				
Teaching	<u>6</u>	<u>1</u>	<u> </u>	<u>7</u>
Technical				
Total	<u>6</u>	<u>1</u>	<u> </u>	<u>7</u>

Language(s) of instruction: Afrikaans

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	<u>50</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>50</u>
Agric.development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

REPUBLIC OF NIGER

The educational system of Niger is based on the French model. Primary education takes six years to complete, while secondary programs are up to eight years in length, depending upon the course of study: academic or vocational. The University of Niamey and several *écoles* provide higher education for advanced students. Substantial gains have been made in education since independence in 1960, with emphasis being placed on primary and secondary programs. Primary enrollment has increased dramatically, growing from 21,000 students in 1960 to 110,000 in 1974.¹

Elementary Education

The primary program is six years long. The students sit for the CEPE (*certificat d'études primaires élémentaires*) at the end of the course of study. Instruction is in French. Approximately nine percent of the primary student population is enrolled in private schools which are subsidized by the government.

Secondary Education

To advance to the secondary level, a student must pass an entrance examination and possess a CEPE. The secondary program is divided into lower and upper cycles. Each cycle is again divided into two bodies of study, one which is general and academic in nature leading to higher education and one which is specialized and vocationally oriented. In the first cycle the general education program is four years in length and results in the BLPC (*brevet d'études du premier cycle*). Students enrolled in the general education program attend *collèges d'enseignement général* or certain *lycées*. The specialized vocational programs of the first cycle require between one and three years to complete and are offered by various national schools which specialize in a specific area. For example, the National School of Public Health trains certified nurses in a one-year course, and surveyors are trained in a one-year program in the National School of Animal Husbandry. Other schools offer two or three-year courses.

Students wishing to continue the general education course in the upper or second cycle must possess a BLPC and successfully participate in a competitive entrance examination. The three-year course leads to the baccalauréat. Technical baccalauréats may also be earned. Second cycle vocational programs are between two to four years in length and are offered by the same national schools which provide the first cycle programs. Agricultural and rural subjects are taught in the Institute of Practical Rural Development and the School of Animal Husbandry.

Higher Education

The University of Niamey which provides higher education in Niger is made up of five schools: science, letters, health sciences, pedagogy and the higher school of agronomy. There are three levels of degrees, the two-year DUES (*diplôme universitaire d'études scientifiques*), and DUEL (*diplôme universitaire d'études littéraires*), the three-year licence and the maîtrise, awarded after four years of study. The baccalauréat or its equivalent, or the successful completion of an entrance examination will admit a student to the university.

Higher level training in agriculture and related subjects is provided by the higher school of agronomy. Soil science, agronomy, animal husbandry, rural engineering and agro-sociology are offered by the school. Agricultural engineers (*Ingénieur Agronome*) produced by this program complete a four-year course of study, the first two years of which are shared with the school of science.

In addition to the University, postsecondary education is offered by the National School of Administration and the National Police School. Students are also trained abroad with the aid of government scholarships, awarded upon the basis of national employment needs.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Niger."

AGRICULTURAL EDUCATION INSTITUTIONS IN NIGER

Doyen
Ecole de l'Agriculture et d'Elevage
Universite de Niamey
B.P. 237
Niamey
Niger
West Africa

Directeur
Ecole des Surveillants d'Elevage de Maradi
Maradi
Niger
West Africa

Directeur
Ecole des Assistants et Agents
Techniques d'Elevage
B.P. 750
Niamey
Niger
West Africa

Directeur
Institut Pratique de Developpement
Rural de Kolo
B.P. 252
Niamey
Niger
West Africa

GENERAL INFORMATION:

Name: Ecole des Surveillants
d'Elevage de Maradi
Mailing Address: Maradi
Niger

Send inquiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>24</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>24</u>

Minimum years of education required for entrance: 6 ans

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

Elevage	<u>13</u>
TOTAL	<u>13</u>

GENERAL INFORMATION:

Name: Ecole des Assistants et Agents
Techniques d'Elevage
Mailing Address: B. P. 10750
Niamey
Niger

Send inquiries to: Directeur de l'Ecole

STUDENTS AND CURRICULA:

1978/79	Male	<u>118</u>
STUDENT	Female	<u>2</u>
ENROLLMENT:	Total	<u>120</u>

Minimum years of education required for entrance: 10 years

Qualifications awarded: Diplôme et Brevet

Graduates by Curricula in 1978:

Elevage	<u>22</u>
TOTAL	<u>22</u>

Year established: 1956

Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u> </u>	<u> </u>	<u>1</u>
Teaching	<u>2</u>	<u> </u>	<u> </u>	<u>2</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>3</u>	<u> </u>	<u> </u>	<u>3</u>

Language(s) of instruction: Français

Duration of courses: 9 à 12 mois

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

Year established: 1970

Source(s) of Support: Ministère de l'Agriculture et F.E.D.

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>2</u>	<u> </u>	<u> </u>	<u>2</u>
Teaching	<u>2</u>	<u> </u>	<u>1</u>	<u>3</u>
Technical	<u> </u>	<u> </u>	<u>2</u>	<u>2</u>
Total	<u>4</u>	<u> </u>	<u>3</u>	<u>7</u>

Language(s) of instruction: Français

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

FEDERAL REPUBLIC OF NIGERIA

The general system of education in Nigeria consists of six or seven years of primary education and five years of secondary education. For some students secondary education is followed by two additional years in preparation for university admission.

Primary Education

Primary education is free in all states and is not compulsory. In 1976 the federal military government announced a policy of "universal primary education." Although students are being registered for this program throughout the country, long-range implementation of the program has yet to be worked out. This level of education lasts for six years with students entering, ideally, at age six and completing the program at age twelve. At the completion of the sixth year program, students are granted a Primary School Leaving Certificate (PSLC). A good part of the last year is spent in preparation for the secondary school entrance examination, which is a requirement for admission to higher levels of education but not for the receipt of the PSLC. The results of this English-medium test determine which stream of post-primary education the student will enter.

Secondary Education:

Access to secondary school is based upon the results of a secondary school entrance examination. Placement in one of the four basic alternative types of post-primary education -- grammar school (academic program), teacher training college (mixed academic and teacher preparation program), secondary modern school (prevocational/commercial programs), and terminal commercial and vocational schools -- is determined by the entrance exam. Students with the highest scores are eligible for grammar school, those in the next level may enter the teacher training college, and those who perform least well can enter the commercial/vocational or the secondary modern schools. The commercial/vocational schools, however, often draw their students from those who have been out of school for a number of years. The number of seats available determines the number of students who enter all types of institutions, as there are always many more applicants than places.¹ At the end of the secondary school program, students sit for either the West African Certificate Examination; the General Certificate of Education Examination, ordinary level; or the examinations of overseas professional bodies such as the Royal Society of Arts. Some students enter the university on the basis of these examinations, while others enter a two-year higher school program leading to the Higher School Certificate or the General Certificate of Education, advanced level.²

Higher Education:

Traditionally, curricula in Nigerian universities have been patterned after the British system; however, there now is a trend to replace the former single honors degree courses with more broadly based courses. Several of the universities have followed the pattern first established by the University of Nigeria, Nsukka and have introduced a general studies program based on the American university system. The first degree awarded at the university is the bachelor's degree, which requires three years of study beyond the higher school or four, including a preliminary year of study at the university. Masters and doctoral degrees are also conferred by several of the older, mature universities in Nigeria.

¹ AACRAO World Education Series, Nigeria, Alan M. Margoles, 1977.

² The International Encyclopedia of Higher Education, 1977 ed. s.v. "Nigeria, Federal Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN NIGERIA

Dean
Faculty of Agriculture
University of Nigeria
Nsukka
Anambra State
Nigeria
West Africa

Dean
Faculty of Veterinary Medicine
Ahmadu Bello University
Zaria
Kaduna State
Nigeria
West Africa

Dean
Faculty of Veterinary Medicine
University of Nigeria
Nsukka
Anambra State
Nigeria
West Africa

Dean
Faculty of Agriculture and Forestry
University of Ibadan
Ibadan
Oyo State
Nigeria
West Africa

Dean
Faculty of Agriculture
University of Maiduguri
Maidugure
Borno State
Nigeria
West Africa

Dean
Faculty of Veterinary Medicine
University of Ibadan
Ibadan
Oyo State
Nigeria
West Africa

Dean
Faculty of Veterinary Medicine
University of Maidugure
Maiduguri
Borno State
Nigeria
West Africa

Dean
Faculty of Agriculture
University of Ife
Ile-Ife
Oyo State
Nigeria
West Africa

Dean
Faculty of Agriculture
University of Calabar
Calabar
Cross-River State
Nigeria
West Africa

Dean
Faculty of Agriculture
University College
Port Harcourt
River State
Nigeria
West Africa

Dean
Faculty of Agriculture
Ahmadu Bello University
Zaria
Kaduna State
Nigeria
West Africa

Dean
Faculty of Agriculture
University of Sokoto
Sokoto
Sokoto State
Nigeria
West Africa

Dean
Faculty of Veterinary Medicine
University of Sokoto
Sokoto
Sokoto State
Nigeria
West Africa

Principal
Veterinary Training Centre
Ezangbo
Anambra State
Nigeria
West Africa

Principal
School of Agriculture and Animal Husbandry
Ministry of Agriculture and Natural Resources
P.M.B. 0068
Bauchi
Bauchi State
Nigeria
West Africa

Principal
Advanced Teachers College
Katsina-Ala
P.M.B. 062
Gboko
Benue State
Nigeria
West Africa

The Provost
Murtala College of Arts Sc. and Tech.
P.M.B. 2084
Makurdi
Benue State
Nigeria
West Africa

Principal
School of Agriculture
Yandev
P.O. Gboko
Benue State
Nigeria
West Africa

Principal
School of Agriculture
Obubra
Cross-River State
Nigeria
West Africa

Dean
School of Agriculture
Alvan Ikoku College of Education
P.M.B. 1033
Owerri
Imo State
Nigeria
West Africa

Principal
Imo State College of Agriculture
Umuagwo-Obaji
P.M.B. 1472
Owerri
Imo State
Nigeria
West Africa

Director
Federal Agricultural Research and Training Station
Umudike
Umuhia
Imo State
Nigeria
West Africa

Principal
College of Agriculture and Animal Science
Ahmadu Bello University
P.M.B. 2134, Mando Road
Kaduna
Kaduna State
Nigeria
West Africa

Principal
Sumaru School of Agriculture
Ahmadu Bello University
P.O. Box 1053
Sumaru, Zaria
Kaduna State
Nigeria
West Africa

Principal
Irrigation School
Kaduna Polytechnic
Kaduna
Kaduna State
Nigeria
West Africa

Principal
Home Economics Training Center
Oyun River
Offa
Kwara State
Nigeria
West Africa

Principal
Federal Leather Institute
Samaru
Zaria
Kaduna State
Nigeria
West Africa

Principal
Agricultural Training Centre
Osara
Okene
Kwara State
Nigeria
West Africa

The Principal
Gumel Advanced Teachers College
P.M.B. 3143
Kano
Kano State
Nigeria
West Africa

Principal
Home Economics Training Centre
Agevba
Okene
Kwara State
Nigeria
West Africa

The Principal
School of Agriculture
Institute for Higher Education
P.M.B. 3401,
Kano
Kano State
Nigeria
West Africa

Heads
Departments of Agr. Science/Home Economics
College of Education
P.M.B. 1527
Oro
Kwara State
Nigeria
West Africa

Principal
Irrigation School
Bagauda
Kano State
Nigeria
West Africa

Principal
Federal Fisheries School
New Bussa
Kwara State
Nigeria
West Africa

Principal
Kabba College of Agriculture
Ahmadu Bello University
Kabba
Kwara State
Nigeria
West Africa

Principal
Federal Fisheries School
Lagos
Lagos State
Nigeria
West Africa

Principal
Agricultural Training Centre
P.M.B. 1383
Ilorin
Kwara State
Nigeria
West Africa

Principal
Niger State School of Agriculture
P.M.B. 109
Mokwa
Niger State
Nigeria
West Africa

Principal
School of Agriculture
Kontagora
Niger State
Nigeria
West Africa

Head
Department of Home Economics
Adeyemi College of Education
Ondo
Ondo State
Nigeria
West Africa

Head
Ogun State College of Education
Ijebu-Ode
Ogun State
Nigeria
West Africa

Heads
Departments of Ag. Science and Home Ec.
College of Education
Ikere-Ekiti, P.M.B. 250
Ondo State
Nigeria
West Africa

Heads
Departments of Ag. Science and Home Ec.
Federal Advanced Teachers College
Abeokuta
Ogun State
Nigeria
West Africa

Director
Institute of Agricultural Research and Training
University of Ife
Ile-Ife
Oyo State
Nigeria
West Africa

Principal
Institute of Agricultural Research and Training
(School of Agriculture)
University of Ife
P.M.B. 623
Akure
Ondo State
Nigeria
West Africa

Principal
School of Agriculture
University of Ife
P.M.B. 5029, Moor Plantation
Ibadan
Oyo State
Nigeria
West Africa

The Principal
St. Helen's Teacher Training College
P.O. Box 132
Ondo
Ondo State
Nigeria
West Africa

Principal
School of Animal Health
Institute of Agricultural Research and Training
P.M.B. 5029
Ibadan
Oyo State
Nigeria
West Africa

Head
Department of Agricultural Science
St. Peter's College
Akure
Ondo State
Nigeria
West Africa

Principal
School of Forestry
Forestry Research Institute of Nigeria
P.M.B. 5054
Ibadan
Oyo State
Nigeria
West Africa

Head
Department of Agricultural Science
Ode Aye Teacher Training College
Okitipupa
Ondo State
Nigeria
West Africa

Forestry Research Institute of Nigeria
School of Forestry at Naraguta
P.M.B 2019
Jos
Plateau State
Nigeria
West Africa

Principal
Veterinary School of Vom
Vom
Plateau State
Nigeria
West Africa

Principal
Soil and Water Conservation Training School
Jos
Plateau State
Nigeria
West Africa

Director
School of Agriculture, Fisheries and Forestry
College of Science and Technology
P.M.B. 5080
Port Harcourt
Rivers State
Nigeria
West Africa

Principal
Irrigation School
Sokoto
Sokoto State
Nigeria
West Africa

Principal
Bakura College of Agriculture
Abmadu Bello University
P.M.B. 2285
Sokoto
Sokoto State
Nigeria
West Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture

University Established in 19 60

Mailing Address: University of Nigeria
Nsukka, Anambra State
Nigeria

Faculty Established in 19 61

Source of Financial Support:
Federal Ministry of Education

Send in-
quiries to: Dean

Language(s) of Instruction:
English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
B.Agric., B.Sc., M.Sc., Ph.D., D.Sc.

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

Minimum Entrance Requirements
for First Degree program:

The Academic Year begins in October

General Certificate of Education

and ends in June

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students *	446	80	526
Ingenieur Agronome Students			
Advanced Degree Students	50		50
Total Number of Full-time Students	496	80	576

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric.Sciences	29		
Animal Husbandry	33		
Agric.Economics and Extension	30		
Food Science/Tech.	9		
Nutrition and Dietetics	8		
Total No. Graduates	109		

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome		
M. Sc. Degree or Equivalent	8	
Doctoral Degree	44	
Total Number	52	

Academic Departments

- Agricultural Economics
- Agricultural Extension
- Animal Science
- Crop Science
- Food Science and Technology
- Home Science
- Soil Science

* B.Agric. and B.Sc. Students

GENERAL INFORMATION:

Name: Faculty of Agriculture
University of IFE
Mailing
Address: Ile-Ife, Oyo
Nigeria

Send in-
quiries to: Dean

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
(b) Educational Exchange programs Yes
The Academic Year begins in October
and ends in July

University Established in 1962

Faculty Established in 1962

Source of Financial Support:
National Universities Commission

Language(s) of Instruction:
English

Degrees and Qualifications Awarded:
B.Sc., M.Sc., M.Phil., Ph.D.

Minimum Entrance Requirements
for First Degree program:

West African school certificate with
credit in 5 relevant subjects or general
Certificate of Education with 5 passes.

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	468	53	521
Ingenieur Agronome Students			
Advanced Degree Students	61	6	67
Total Number of Full-time Students	529	59	588

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agricultural Sciences	81	11	
Animal Husbandry		2	1
Agril. Extension		2	
Total No. Graduates	81	15	1

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		7
Ingenieur Agronome		
M. Sc. Degree or Equivalent	3	
Doctoral Degree	43	
Total Number	46	7

Academic Departments
Animal Science
Agricultural Economics
Extension Education
Plant Science
Soil Science

GENERAL INFORMATION:

Name: Faculty of Agriculture
Ahmadu Bello University
Mailing Address: Zaria, Kaduna State
Nigeria

University Established in 1962

Faculty Established in 1962

Send inquiries to: Dean

Source of Financial Support:
Ministry of Education via
National Universities Commission
Language(s) of instruction:
English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:

- (a) Academic Degree programs Yes
 - (b) Educational Exchange programs No
- The Academic Year begins in Oct. for Freshmen
July for others
and ends in June

B.Sc., M.Sc., Ph.D.
Minimum Entrance Requirements
for First Degree program:
West African School Certificate with Credit
in five Science Subjects plus English and
G.C.E. A level in two of the five Subjects.

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	158	14	172
Ingenieur Agronome Students			
Advanced Degree Students	68	6	74
Total Number of Full-time Students	226	22	246

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.	
Agricultural Sciences	66	7	3	
Total No. Graduates	76	66	7	3

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome		
M. Sc. Degree or Equivalent	6	2
Doctoral Degree	55	4
Total Number	61	6

Academic Departments

- Department of Agricultural Economics and Rural Sociology
- Department of Animal Science
- Department of Crop Protection
- Plant Science
- Department of Soil Science
- Department of Agronomy

GENERAL INFORMATION:

Name: Faculty of Agriculture & Forestry
University of Ibadan
Mailing Address: Ibadan, Oyo State
Nigeria

University Established in 1949

Faculty Established in 1948

Source of Financial Support:
Federal Government of Nigeria through
Ministry Education and National University
Commission

Send in-
quiries to: Dean

Language(s) of Instruction:
English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
B.Sc., Ph.D, M. Phil.

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes
- The Academic Year begins in September
- and ends in June

Minimum Entrance Requirements
for First Degree-program:
(a) WASC or GCE O level by Concession Entr.
Exam
(b) HSC or GCEA A Level by direct entry

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	484	189	673
Ingenieur Agronome Students			
Advanced Degree Students	182	86	268
Total Number of Full-time Students	666	275	941

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	M.Phil.	Doct.
Agricultural Sc.	142	10	6	7
Animal Science & Bio-Chemistry Nutrition	91	2	1	2
Forestry	45			1
Ag. Extension	15			
Total No. Graduates	312	293	12	7

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	5	
Ingenieur Agronome	18	
M. Sc. Degree or Equivalent	12	4
Doctoral Degree	94	
Total Number	129	4

Academic Departments
Agricultural Biology
Agricultural Economics
Agronomy: Crop Science, Soil Science
Agricultural Extension
Animal Science
Agricultural Biochemistry & Nutrition
Forestry

GENERAL INFORMATION:

Name: Faculty of Agriculture
University of Nigeria
Mailing Address: Nsukka, Anambra State
Nigeria

Send in-
quiries to: The Dean

STUDENTS AND CURRICULA:

1978/79
STUDENT ENROLLMENT: Male _____
Female _____
Total 335

Minimum years of education
required for entrance: 10 years

Qualifications awarded: Diploma in Animal Health
and Husbandry

Graduates by Curricula in 1978:

Agricultural Extension 106

TOTAL 106

Year established: 1960

Source(s)
of Support: University/Federal Government

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	2	1	3
Teaching	—	—	35	35
Technical	13	—	—	13
Total	13	2	36	51

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	—
	<u>100%</u>

GENERAL INFORMATION:

Name: Faculty of
Veterinary Medicine
Mailing Address: University of Nigeria
Nsukka, Anambra State
Nigeria

Send in-
quiries to: Associate Dean (Vet.)

STUDENTS AND CURRICULA:

1978/79
STUDENT ENROLLMENT: Male 48
Female 3
Total 51

Minimum years of education
required for entrance: 10 Years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:

Veterinary Science 20

TOTAL 20

Year established: 1960

Source(s)
of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3	—	—	3
Teaching	—	—	8	8
Technical	—	4	—	4
Total	3	4	8	15

Language(s) of instruction: English

Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	80
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	4
Agric. development bank, cooperative, etc.	1
Agri-business firms.....	2
Farming or farm management.....	10
Entered nonagricultural employment.....	—
Continue their education.....	3
Unemployed.....	—
Other: _____	—
	<u>100%</u>

GENERAL INFORMATION:

Name: Advanced Teachers College
Katsina-ala
Mailing: P.M.B. 062, Gboko
Address: Benue State
Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79
STUDENT ENROLLMENT: Male 75
Female 104
Total 179

Minimum years of education
required for entrance: 12 Years

Qualifications awarded: National Certificate
of Education (N.C.E.)

Graduates by Curricula in 1979:

Agricultural Education	<u>28</u>
Home Economics Education	<u>37</u>
	<u>-</u>
TOTAL	<u>65</u>

GENERAL INFORMATION:

Name: Murtala College of Arts Science
and Technology
Mailing: P.M.B. 2084
Address: Makurdi
Benue State, Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79
STUDENT ENROLLMENT: Male 155
Female 6
Total 156

Minimum years of education
required for entrance: 12 Years

Qualifications awarded: Nigerian National
Diploma

Graduates by Curricula in 1978:

First Graduates in 1981	<u>(48)</u>
	<u>-</u>
TOTAL	<u>-</u>

Year established: 1976

Source(s)
of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>2</u>	<u>-</u>	<u>1</u>	<u>3</u>
Teaching	<u>4</u>	<u>7</u>	<u>-</u>	<u>7</u>
Technical	<u>6</u>	<u>7</u>	<u>1</u>	<u>14</u>
Total	<u>12</u>	<u>14</u>	<u>2</u>	<u>28</u>

Language(s) of instruction: English

Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>-</u>
Teaching in Schools.....	<u>100</u>
Technical staff at an educational or research institution.....	<u>-</u>
Agric. development bank, cooperative, etc.	<u>-</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>-</u>
Unemployed.....	<u>-</u>
Other:	<u>-</u>
	<u>100%</u>

Year established: 1976

Source(s)
of Support: Ministry of Education

STAFFING *	<B.S	B.S	>B.S	Total
Administrative	<u>40</u>	<u>11</u>	<u>2</u>	<u>53</u>
Teaching	<u>3</u>	<u>80</u>	<u>16</u>	<u>99</u>
Technical	<u>18</u>	<u>-</u>	<u>-</u>	<u>18</u>
Total	<u>61</u>	<u>91</u>	<u>18</u>	<u>170</u>

* Includes Non-Agric. Faculty

Language(s) of instruction: English

Duration of courses: 4 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>-</u>
Teaching in Schools.....	<u>-</u>
Technical staff at an educational or research institution.....	<u>-</u>
Agric. development bank, cooperative, etc.	<u>-</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>-</u>
Unemployed.....	<u>-</u>
Other:	<u>-</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: School of Agriculture

Mailing Address: Yandev
P.O. GBOKO
Benue State
Nigeria

Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>226</u>
STUDENT	Female	<u>90</u>
ENROLLMENT:	Total	<u>316</u>

Minimum years of education required for entrance: 12 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:

Home Economics	<u>45</u>
General Agriculture	<u>113</u>
TOTAL	<u>158</u>

GENERAL INFORMATION:

Name: School of Forestry

Mailing Address: Forestry Research
Institute of Nigeria
P.M.B. 5054, Ibadan
Nigeria

Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>120</u>
STUDENT	Female	<u>6</u>
ENROLLMENT:	Total	<u>126</u>

Minimum years of education required for entrance: 11 Years

Qualifications awarded: Higher Diploma
and Ordinary Diploma

Graduates by Curricula in 1978:

Forestry	<u>66</u>
	<u>-</u>
	<u>-</u>
TOTAL	<u>66</u>

Year established: 1973

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>	<u>-</u>	<u>-</u>	<u>4</u>
Teaching	<u>10</u>	<u>20</u>	<u>2</u>	<u>32</u>
Technical	<u>8</u>	<u>-</u>	<u>-</u>	<u>8</u>
Total	<u>22</u>	<u>20</u>	<u>2</u>	<u>44</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>98</u>
Teaching in Schools.....	<u>-</u>
Technical staff at an educational or research institution.....	<u>-</u>
Agric.development bank,cooperative,etc.	<u>2</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>-</u>
Unemployed.....	<u>-</u>
Other: _____	<u>100%</u>

Year established: 1941

Source(s) of Support: Forestry Research Institute of Nigeria

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>23</u>	<u>-</u>	<u>-</u>	<u>23</u>
Teaching	<u>-</u>	<u>4</u>	<u>2</u>	<u>6</u>
Technical	<u>3</u>	<u>-</u>	<u>-</u>	<u>3</u>
Total	<u>26</u>	<u>4</u>	<u>2</u>	<u>32</u>

Language(s) of instruction: English

Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>63</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u>25</u>
Agric.development bank,cooperative,etc.	<u>-</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>1</u>
Continue their education.....	<u>10</u>
Unemployed.....	<u>-</u>
Other: _____	<u>100%</u>

GENERAL INFORMATION:

Name: School of Animal Health, Institute
of Agricultural Research and Training
Mailing Address: P.M.B. 5029
University of Ife
Ibadan, Nigeria
Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>137</u>
STUDENT	Female	<u>16</u>
ENROLLMENT:	Total	<u>153</u>

Minimum years of education required for entrance: 11 years

Qualifications awarded: Ordinary and Higher Diplomas

Graduates by Curricula in 1978:

Animal Health)	Ordinary Diploma	<u>33</u>
and Husbandry)	Higher Diploma	<u>16</u>
	TOTAL	<u>49</u>

GENERAL INFORMATION:

Name: Imo State College of Agriculture
Umuagwo-Ohajj
Mailing Address: P.M.B. 1472
Owerri
Imo State
Nigeria
Send in-quiries to: Registrar

STUDENTS AND CURRICULA:

1978/79	Male	<u>159</u>
STUDENT	Female	<u>54</u>
ENROLLMENT:	Total	<u>213</u>

Minimum years of education required for entrance: 11 years

Qualifications awarded: Nigeria National Diploma (NND)

Graduates by Curricula in 1978:

General Home Economics	<u>12</u>
Animal Husbandry	<u>19</u>
Agronomy (Crop Production)	<u>59</u>
Forestry	<u>6</u>
Fisheries	<u>10</u>
TOTAL	<u>106</u>

Year established: 1963

Source(s) of Support: Ministry of Agriculture, Federal
Ministry of Science & Technology

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>4</u>	<u>1</u>	<u>10</u>	<u>15</u>
Teaching	<u>4</u>	<u>1</u>	<u>10</u>	<u>15</u>
Technical	<u>4</u>	<u>1</u>	<u>10</u>	<u>15</u>
Total	<u>8</u>	<u>1</u>	<u>10</u>	<u>19</u>

Language(s) of instruction: English
Duration of courses: ²/₄ years - Ordinary Diploma
²/₄ years - Higher Diploma

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>90</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u>1</u>
Agric. development bank, cooperative, etc.	<u>9</u>
Agri-business firms.....	<u>9</u>
Farming or farm management.....	<u>1</u>
Entered nonagricultural employment.....	<u>1</u>
Continue their education.....	<u>1</u>
Unemployed.....	<u>1</u>
Other:	<u>100%</u>

Year established: 1978

Source(s) of Support: Imo State Government

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>5</u>	<u>3</u>	<u>1</u>	<u>9</u>
Teaching	<u>8</u>	<u>24</u>	<u>2</u>	<u>34</u>
Technical	<u>12</u>	<u>2</u>	<u>2</u>	<u>16</u>
Total	<u>25</u>	<u>29</u>	<u>5</u>	<u>59</u>

Language(s) of instruction: English
Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>60</u>
Teaching in Schools.....	<u>10</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u>15</u>
Agri-business firms.....	<u>4</u>
Farming or farm management.....	<u>4</u>
Entered nonagricultural employment.....	<u>0.5</u>
Continue their education.....	<u>0.5</u>
Unemployed.....	<u>1</u>
Other:	<u>100%</u>

GENERAL INFORMATION:

Name: School of Agriculture
Alvan Ikoku College of Education
Mailing Address: P.M.B. 1033
Owerri, Imo State
Nigeria

Send in-quiries to: Dean, School of Agriculture

Year established: 1963

Source(s) of Support: Ministry of Education, Federal Government Bursary for Students

STAFFING	<B.S	B.S	>B.S	Total
Administrative	1	1		2
Teaching		4	5	9
Technical	6			6
Total	7	5	5	17

STUDENTS AND CURRICULA:

1978/79	Male	160
STUDENT	Female	18
ENROLLMENT:	Total	178

Minimum years of education required for entrance: 11 years

Qualifications awarded: Nigeria Certificate in Education (NCE)

Graduates by Curricula in 1978:	
General Agriculture (Teacher Prep.)	32
General Home Economics (" ")	30
TOTAL	62

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	
Teaching in Schools.....	100
Technical staff at an educational or research institution.....	
Agric.development bank,cooperative,etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	100%

GENERAL INFORMATION:

Name: College of Agriculture and Animal Science
Mailing Address: Ahmadu Bello University
P.M.B. 2134
Mando Road, Kaduna
Nigeria

Send in-quiries to: Principal

Year established: 1960

Source(s) of Support: Ministry of Agriculture and Ahmadu Bello University

STAFFING	<B.S	B.S	>B.S	Total
Administrative	4	1	2	7
Teaching	4	7	11	22
Technical	10	-	-	10
Total	14	8	13	39

Language(s) of instruction: English

Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	90
Teaching in Schools.....	3
Technical staff at an educational or research institution.....	1
Agric.development bank,cooperative,etc.	1
Agri-business firms.....	2
Farming or farm management.....	1
Entered nonagricultural employment.....	1
Continue their education.....	1
Unemployed.....	-
Other: _____	100%

STUDENTS AND CURRICULA:

1978/79	Male	235
STUDENT	Female	8
ENROLLMENT:	Total	243

Minimum years of education required for entrance: 12 Years

Qualifications awarded: Diploma and Higher Diploma

Graduates by Curricula in 1978:	
Animal Health	48
Animal Products Inspection	21
Poultry Production	15
Range Management	21
TOTAL	105

GENERAL INFORMATION:

Name: School of Agriculture
Institute for Higher Education
Mailing P.M.B. 3401
Address: Kano, Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 80
STUDENT Female _____
ENROLLMENT: Total 80

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Certificate-Diploma

Graduates by Curricula in 1978:

First Graduates in 1981 (40)

TOTAL _____

Year established: 1978

Source(s)
of Support: Kano State Government

STAFFING	B.S	B.S	B.S	Total
Administrative	—	1	1	2
Teaching	—	3	6	9
Technical	1	1	—	2
Total	1	5	7	13

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
First Graduates in	
Government Extension Service.....	1981
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: Gumel Advanced Teachers College
Mailing P.M.B. 3143
Address: Kano
Nigeria

Send in-
quiries to: The Principal

STUDENTS AND CURRICULA:

1978/79 Male _____
STUDENT Female 80
ENROLLMENT: Total 80

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Certificate

Graduates by Curricula In 1978:

Home Economics 29

TOTAL _____

Year established: 1976

Source(s)
of Support: Ministry of Education

STAFFING *	B.S	B.S	B.S	Total
Administrative	5	—	—	5
Teaching	—	37	16	53
Technical	—	—	—	—
Total	5	37	16	58

*Includes Non-Home Economics Staff

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: Ahmadu Bello University
College of Agriculture
Mailing: Kabba
Address: Kwara State
Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>254</u>
STUDENT	Female	<u>8</u>
ENROLLMENT:	Total	<u>262</u>

Minimum years of education
required for entrance: 11 Years

Qualifications awarded: Ordinary Diploma
and Higher National Diploma

Graduates by Curricula in 1978:

General Agriculture	<u>132</u>
Horticulture	<u>18</u>
TOTAL	<u>150</u>

GENERAL INFORMATION:

Name: Niger State School of Agriculture

Mailing: P.M.B. 109
Address: Mokwa, Niger State
Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>37</u>
STUDENT	Female	<u>1</u>
ENROLLMENT: (First year only)	Total	<u>38</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978: *

First Graduates 1981	<u>(38)</u>
TOTAL	<u> </u>

Year established: 1964

Source(s)
of Support: Ministry of Agriculture
and University

STAFFING	B.S	B.S	>B.S	Total
Administrative	<u>22</u>	<u>-</u>	<u>-</u>	<u>22</u>
Teaching	<u>6</u>	<u>7</u>	<u>5</u>	<u>18</u>
Technical	<u>18</u>	<u>-</u>	<u>-</u>	<u>18</u>
Total	<u>46</u>	<u>7</u>	<u>5</u>	<u>58</u>

Language(s) of instruction: English

Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>90</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u>2</u>
Agric.development bank,cooperative,etc.	<u>-</u>
Agri-business firms.....	<u>5</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>2</u>
Unemployed.....	<u>-</u>
Other: _____	<u>-</u>
	<u>100%</u>

Year established: 1979

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>5</u>	<u>-</u>	<u>-</u>	<u>5</u>
Teaching	<u>4</u>	<u>6</u>	<u>-</u>	<u>10</u>
Technical	<u>-</u>	<u>-</u>	<u>3</u>	<u>3</u>
Total	<u>9</u>	<u>6</u>	<u>3</u>	<u>18</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent *
Government Extension Service.....	<u> </u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric.development bank,cooperative,etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

Not applicable now.

GENERAL INFORMATION:

Name: University of IFE, Institute of
Agric. Research and Training
Mailing (School of Agriculture)
Address: P.M.B. 623 Akure, Ondo State,
Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 336
STUDENT Female 7
ENROLLMENT: Total 343

Minimum years of education
required for entrance: 11 Years

Qualifications awarded: Ordinary Diploma

Graduates by Curricula in 1978:

General Agriculture 203
-
-
-
TOTAL 203

GENERAL INFORMATION:

Name: Adeyemi College of Education

Mailing Ondo
Address: Ondo State
Nigeria

Send in-
quiries to: The Acting PRINCIPAL

STUDENTS AND CURRICULA:

1978/79 Male 25
STUDENT Female 6
ENROLLMENT: Total 31

Minimum years of education
required for entrance: 11 years

Qualifications awarded: National Certificate of
Education (NCE)

Graduates by Curricula in 1978:

First Agricultural Graduates (10)
in 1980
-
-
TOTAL -

Year established: 1957

Source(s)
of Support: University of IFE

STAFFING	B.S	B.S	B.S	Total
Administrative	-	-	-	-
Teaching	-	4	3	7
Technical	18	-	-	18
Total	18	4	3	25

Language(s) of instruction: English

Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	75
Teaching in Schools.....	-
Technical staff at an educational or research institution.....	18
Agric. development bank, cooperative, etc.	-
Agri-business firms.....	6
Farming or farm management.....	1
Entered nonagricultural employment.....	-
Continue their education.....	-
Unemployed.....	-
Other:	-
	100%

Year established: 64

Source(s)
of Support: Federal Government through the
University of IFE

STAFFING	B.S	B.S	B.S	Total
Administrative	-	-	-	-
Teaching	-	1	1	2
Technical	-	-	-	-
Total	-	1	1	2

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	-
Teaching in Schools.....	-
Technical staff at an educational or research institution.....	-
Agric. development bank, cooperative, etc.	-
Agri-business firms.....	-
Farming or farm management.....	-
Entered nonagricultural employment.....	-
Continue their education.....	-
Unemployed.....	-
Other:	-
	100%

GENERAL INFORMATION:

Name: College of Education
 Mailing Address: P.M.B. 250, Ikere-Ekiti
 Ondo State
 Nigeria

Send in-
 quires to: Secretary

STUDENTS AND CURRICULA:

1978/79	Male	78
STUDENT	Female	22
ENROLLMENT:	Total	100

Minimum years of education
 required for entrance: 11 years

Qualifications awarded: Nigeria Certificate
 in Education

Graduates by Curricula in 1978:
 General Agriculture (Teacher
 Prep.) in 1980

	32
TOTAL	32

Year established: 1977
 Source(s)
 of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	—	—
Teaching	—	3	3	6
Technical	2	—	—	2
Total	2	3	3	8

Language(s) of instruction: English
 Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools....(Bond.Terms)....	100
Technical staff at an educational or research institution.....	—
Agric.development bank,cooperative,etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: St. Helen's Teacher
 Training College
 Mailing Address: P. O. Box 132
 Ondo
 Nigeria

Send in-
 quires to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	—
STUDENT	Female	607
ENROLLMENT:	Total	607

Minimum years of education
 required for entrance: 9 Years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

Home Economics Education	166
TOTAL	166

Year established: 1955
 Source(s)
 of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	13	—	—	13
Teaching	17	22	—	39
Technical	—	—	—	—
Total	30	22	—	52

Language(s) of instruction: English
 Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	100
Technical staff at an educational or research institution.....	—
Agric.development bank,cooperative,etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: Ogun State College
of Education
Mailing: Ijebu-Ode
Address: Ogun State
Nigeria

Send in-
quiries to: Head, Dept. of Home Economics

STUDENTS AND CURRICULA:

1978/79	Male	-
STUDENT	Female	<u>66</u>
ENROLLMENT:	Total	<u>66</u>

Minimum years of education
required for entrance: 11 Years

Qualifications awarded: Nigerian Certificate
of Education (N.C.E.)
Graduates by Curricula in 1978:

Home Economics Education	<u>(21)</u>
(First Graduates in 1980)	<u> </u>
TOTAL	<u> </u>

GENERAL INFORMATION:

Name: School of Agriculture
University of IFE
Mailing: P.M.B. 5029
Address: Moor Plantation, Ibadan
Oyo State
Nigeria

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>151</u>
STUDENT	Female	<u>25</u>
ENROLLMENT:	Total	<u>176</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Higher Diploma

Graduates by Curricula in 1978:

General Agriculture	<u>71</u>
	<u> </u>
TOTAL	<u>71</u>

Year established: 1978

Source(s)
of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u> </u>	<u>1</u>	<u>2</u>
Teaching	<u>1</u>	<u> </u>	<u>1</u>	<u>2</u>
Technical	<u>1</u>	<u> </u>	<u>1</u>	<u>2</u>
Total	<u>1</u>	<u> </u>	<u>1</u>	<u>2</u>

Language(s) of instruction: English

Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u>100%</u>

Year established: 1921

Source(s)
of Support: University of IFE

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>8</u>	<u>-</u>	<u>2</u>	<u>10</u>
Teaching	<u>3</u>	<u>4</u>	<u>5</u>	<u>12</u>
Technical	<u>40</u>	<u>-</u>	<u>-</u>	<u>40</u>
Total	<u>51</u>	<u>4</u>	<u>7</u>	<u>62</u>

Language(s) of instruction: English
Duration of courses: 2 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>80</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>10</u>
Agric. development bank, cooperative, etc.	<u>3</u>
Agri-business firms..	<u>2</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>5</u>
Unemployed.....	<u>-</u>
Other:	<u>100%</u>

GENERAL INFORMATION:

Name: Forestry Research Institute of Nigeria
 Mailing School of Forestry
 Address: P.M.B. 2019, Jos, Plateau State Nigeria

Send in-
 quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>145</u>
STUDENT	Female	<u>-</u>
ENROLLMENT:	Total	<u>145</u>

Minimum years of education required for entrance: 11 Years

Qualifications awarded: Ordinary Diploma in Forestry and Forest Guard Diploma
 Graduates by Curricula in 1978:

Forestry	<u>65</u>
Forest and Game Guard	<u>80</u>
TOTAL	<u>145</u>

Year established: 1958
 Source(s) of Support: Ministry of Agriculture and Forestry Research Institute

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>-</u>	<u>10</u>	<u>2</u>	<u>12</u>
Teaching	<u>3</u>	<u>-</u>	<u>-</u>	<u>3</u>
Technical	<u>3</u>	<u>10</u>	<u>2</u>	<u>15</u>

Language(s) of instruction: English
 Duration of courses: 1 and 2 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>81</u>
Teaching in Schools.....	<u>-</u>
Technical staff at an educational or research institution.....	<u>10</u>
Agric.development bank,cooperative,etc.	<u>-</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>9</u>
Unemployed.....	<u>-</u>
Other: _____	<u>-</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: School of Agriculture, Fisheries and Forestry
 Mailing College of Science and Technology
 Address: P.M.B. 5080, Port Harcourt Rivers State Nigeria

Send in-
 quiries to: Director

STUDENTS AND CURRICULA:

1978/79	Male	<u>248</u>
STUDENT	Female	<u>34</u>
ENROLLMENT:	Total	<u>282</u>

Minimum years of education required for entrance: 11 Years

Qualifications awarded: Nigerian National Diploma (NND)
 Graduates by Curricula in 1978:

General Agriculture	<u>73</u>
Specialized Agric. Curricula	<u>14</u>
TOTAL	<u>87</u>

Year established: 1972/73
 Source(s) of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>-</u>	<u>-</u>	<u>17</u>	<u>26</u>
Teaching	<u>-</u>	<u>9</u>	<u>-</u>	<u>9</u>
Technical	<u>79</u>	<u>-</u>	<u>-</u>	<u>79</u>
Total	<u>79</u>	<u>9</u>	<u>17</u>	<u>105</u>

Language(s) of instruction: English
 Duration of courses: 3 and 4 Years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>30</u>
Teaching in Schools.....	<u>6</u>
Technical staff at an educational or research institution.....	<u>6</u>
Agric.development bank,cooperative,etc.	<u>7</u>
Agri-business firms.....	<u>7</u>
Farming or farm management.....	<u>7</u>
Entered nonagricultural employment.....	<u>7</u>
Continue their education.....	<u>30</u>
Unemployed.....	<u>-</u>
Other: _____	<u>-</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: College of Agriculture, Bakura
 Mailing Address: Ahmadu Bello University
 P.M.B. 2285
 Sokoto, Nigeria

Send in-
 quires to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>93</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>93</u>

Minimum years of education
 required for entrance: General or Technical
 Secondary Education

Qualifications awarded: Ordinary Diploma and
 Higher Diploma in Irrigation Agronomy

Graduates by Curricula in 1978:

Agricultural Extension	<u> </u>
(Irrigation Agronomy)	<u>26</u>
TOTAL	<u>26</u>

Year established: 1972

Source(s)
 of Support: Through University grant Commission

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>6</u>	<u> </u>	<u>2</u>	<u>8</u>
Teaching	<u>9</u>	<u>7</u>	<u>4</u>	<u>20</u>
Technical	<u>5</u>	<u>4</u>	<u> </u>	<u>9</u>
Total	<u>20</u>	<u>11</u>	<u>6</u>	<u>37</u>

Language(s) of instruction: English

Duration of courses: 3 - 4 years *

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>95</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u>1</u>
Agric.development bank,cooperative,etc.	<u>1</u>
Agri-business firms.....	<u>1</u>
Farming or farm management.....	<u>1</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

REUNION

The island of Reunion is a department of France and bases its educational system on the French model. The five-year primary program, the five to seven-year secondary program and higher education utilize French as the language of instruction.

Elementary Education

The five year primary program which prepares students for secondary level work is compulsory.

Secondary Education

Secondary level education is also compulsory and is offered in two segments. Students first complete a lower, four-year course of general, technical or professional work. Upon completing the first course, a student may enter a one to three year short training program in a technical or professional area, which prepares people directly for employment. A second option is the long secondary program, which is a three-year course ending in either the baccalauréat or the baccalauréat de technicien.¹ The Centre Universitaire de Saint-Denis de la Reunion provides higher education in certain fields of study, but there is no post-secondary education in agriculture.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Reunion."

REPUBLIC OF RWANDA

The educational system of Rwanda is based upon the French and Belgium models. Upon gaining independence from Belgium in 1967, the government established a policy of free and compulsory education for all children. In addition, the government took control of education from the missionaries who in the pre-independence period, had provided the majority of educational opportunity in Rwanda. The government and the missionaries entered into an agreement by which the missionaries would continue to operate their schools but with a government subsidy and using government texts and materials. Today, over fifty percent of primary and secondary schools are still missionary operated. Higher education is provided by the National University of Rwanda (Université nationale du Rwanda) in Butare. The Institut catéchétique africain (African Catechetical Institute) and the Institut pédagogique national (National Institute of Education) also offers high level educational programs.

Elementary Education

Primary education is universal, free and compulsory for children between the ages of six and fifteen. The six-year program is divided into two parts, the first or four-year program ending in a certificat d'études primaires. The second segment is two years in length and ends in the diplôme de fin d'études primaires. Instruction is given in Kinyarwanda in the first portion and in French during the second portion.

Secondary Education

Students who complete the primary program may pursue one of several secondary level programs. Those who qualify may enter programs leading to higher education. The course lasts six years and ends at the baccalauréat level with a diplôme de fin d'humanités. Modern or classical humanities are studied. Other secondary courses last between three to seven years. Students may study technical and vocational subjects, teacher training and general education. Students may also enroll in a one-year postprimary course (niveau complémentaire) directly after completing primary school. All instruction is given in French at the secondary level.

Higher Education

There are a number of higher education institutions open to the student holding the diplôme de fin d'humanités secondaires or its equivalent. Admission is open to all who qualify. The Université nationale du Rwanda was opened in 1963 and offers programs in law, letters, medicine, sciences, agronomy, social science, nursing and construction engineering. The Institut pédagogique national trains secondary teachers as does the Institut catéchétique africain. The latter institution trains secondary level religious instructions.

The degrees awarded by the National University of Rwanda are the bachelor's, given after three years of study, and a licence given after an additional two years of work. Students pursuing agriculture may earn a licence in agronomy after five years of study. The Institut pédagogique national offers a diplôme d'agrégé (teaching qualification) at the end of three years which entitles the bearer to teach at the lower secondary level. An additional two years of study enable the student to teach the upper secondary course.

¹International Encyclopedia of Higher Education, 1977 ed., s.v., "Rwanda, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN RWANDA

Doyen
Faculte d'Agronomie
Universite Nationale du Rwanda
B.P. 117
Butare
Rwanda
East Africa

Directeur
College Agricole de Butare
Section Agricola-Veterinaire du Group Scolaire
B. P. 119
Butare
Rwanda
East Africa

Directeur
Ecole Agricole de Nyagahanga
B.P. 13
Gatsibo/Byumba
Rwanda
East Africa

Directeur
Ecole Agricole de Nyamishaba
B.P. 3
Kibuye
Rwanda
East Africa

GENERAL INFORMATION:

Name: Faculté d'Agronomie
University Nationale du Rwanda

Mailing Address: B. P. 117
Butare
Rwanda

Send in-quiries to: Doyen

Institution accepts foreign students for:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs Yes

The Academic Year begins in Octobre
and ends in Juin

University Established in 1963

Faculty Established in 1979

Source of Financial Support:
Ministere de l'Education et Agente
Canadienne Poor le Development

Language(s) of Instruction:
Francais

Degrees and Qualifications Awarded:
1 - Baccalauréat es Sciences; Agronomie Gen.
2 - Diplome d'Ingenieur Agronome

Minimum Entrance Requirements
for First Degree program:

Diplome de Fin d'Etudes Secondaires
Humanités Scientifiques

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	6	_____	6
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	6	_____	6

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.	Agr.	Doct.
Science Agricole			5	
Total No. Graduates				
			5	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	1	_____
M. Sc. Degree or Equivalent	5	10
Doctoral Degree	2	5
Total Number	8	15

Academic Departments

GENERAL INFORMATION:

Name: Le Collège Agricole de Butare
 Section Agricole
 B. P. 119
 Mailing Address: Butare
 Rwanda

Send in-
 quires to: Directeur

Year established: 1964
 Source(s) of Support: Ministry of Education and
 FED (CEE), FAC (France)
 STAFFING

	B.S	B.S	B.S	Total
Administrative	—	—	1	1
Teaching	2	2	2	6
Technical	—	—	3	3
Total	2	2	6	10

STUDENTS AND CURRICULA:

1978/79
 STUDENT ENROLLMENT:

	Male	Female	Total
	82	—	82

Minimum years of education
 required for entrance: 9 years

Qualifications awarded: Diplôme Technicien Agricole

Graduates by Curricula in 1978:

Agricola	18
	—
	—
	—
TOTAL	18

Language(s) of instruction: Français
 Duration of courses: 4 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	95
Teaching in Schools.....	4
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	1
Unemployed.....	—
Other:	—
	100%

GENERAL INFORMATION:

Name: Le Collège Agricole de Butare
 Section Veterinaire, Groupe Scolaire
 Mailing Address: B. P. 119, Butare
 Rwanda

Send in-
 quires to: Directeur

Year established: 1964
 Source(s) of Support: Ministry of Education and
 FED (CEE), FAC (France)
 STAFFING

	B.S	B.S	B.S	Total
Administrative	—	1	—	1
Teaching	—	—	5	5
Technical	—	—	6	6
Total	—	1	11	12

STUDENTS AND CURRICULA:

1978/79
 STUDENT ENROLLMENT:

	Male	Female	Total
	68	—	68

Minimum years of education
 required for entrance: 9 years

Qualifications awarded: Diplome de Technicien
 Veterinaire

Graduates by Curricula in 1978:

Veterinaire	7
	—
	—
	—
TOTAL	7

Language(s) of instruction: Français
 Duration of courses: 4 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	98
Teaching in Schools.....	1
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	1
Unemployed.....	—
Other:	—
	100%

GENERAL INFORMATION:

Name: Section Agricole Inferieur
 Ecole Agricola de Nyamishaba
 Mailing Address: B. P. 3
 Kibuye
 Rwanda

Send inquiries to: Directeur

Year established: 1965

Source(s) of Support: Ministère de l'Agriculture

STAFFING	B.S	B.S	B.S	Total
Administrative	6			6
Teaching	3			3
Technical	1			1
Total	10	-	-	10

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	90		90

Minimum years of education required for entrance: 9 years

Qualifications awarded: Diplôme

Graduates by Curricula in 1978:	
Agriculture Générale	27
TOTAL	27

Language(s) of instruction: français

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	69
Teaching in Schools.....	10
Technical staff at an educational or research institution.....	
Agric. development bank, cooperative, etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	10
Continue their education.....	10
Unemployed.....	1
Other: _____	
	100%

Sao Tomé and Príncipe

The islands of Sao Tomé and Príncipe, located in the Gulf of Guinea west of Gabon, received independence from Portugal in 1975 after twenty four years as a Portuguese overseas Province. Education in Sao Tomé and Príncipe is provided in four years of primary school, two years of lower and two years of upper secondary school. Completion of primary and lower secondary school is compulsory. One secondary-level technical institution exists, but there are no post-secondary or higher education institutions.

¹Encyclopedia of the Third World George Thomas Kurian, Facts on File, 1978.

REPUBLIC OF SENEGAL

The educational system of Senegal is based on the French model, a legacy from the colonial period when Senegal served as the administrative center of the French colonial government (1895-1959). In an effort to make education more responsive to the needs of an independent nation, changes are being made in the structure of the educational system. At the university level students are channeled into areas of study beneficial to the nation. As industrial growth has been slow, the number of students permitted to advance to secondary and university levels is restricted.

Elementary Education

Children attend primary school for five years sitting for the CEPE (certificate d'études primaires élémentaires) in the final year. Possession of the CEPE does not guarantee advancement to the secondary level.¹

Secondary Education

Admission to secondary school is granted by passing an entrance examination. The educational development plan initiated between 1969-1973 directed that only fifteen percent of primary-level students could advance to the secondary level. Secondary students attend a seven-year course: a lower, four-year cycle and a higher three-year cycle. First cycle students cannot continue on to the second cycle until they have been examined and have earned the brevet d'études du premier cycle de l'enseignement secondaire (BEPC). Higher level students attend either the three-year lycée earning a baccalauréat, or a two-year vocational lycée techniques, earning the baccalauréat technicien.

Higher Education

Admission to postsecondary education is controlled by a number of factors: the possession of a baccalauréat, recommendations of secondary school teachers and administrators, national employment needs and available openings in postsecondary institutions. Individuals already employed, who wish additional professional qualifications, automatically gain admission.

University level education in Senegal is provided by the University of Dakar, one of the oldest and best equipped institutions of higher education in French speaking West Africa. Students may earn diplomas and degrees in the general areas of medicine and pharmacy, science, letters and humanities, law and economic sciences. Professional schools attached to the university offer programs in education, engineering and technology, veterinary science, library science and communications. Reforms initiated in 1969 have altered both programs and degrees to be more responsive to Senegal's needs. Degrees are now equivalent to, but not identical, to the former French degrees. Basically, a diplôme is given to a student after two years of study, a licence after three, and a maitrise after four. Advanced diplomas and doctoral studies may be pursued.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Senegal."

AGRICULTURAL EDUCATION INSTITUTIONS IN SENEGAL

Directeur
Ecole Inter-Etats des Sciences et
Medecine Veterinaires de Dakar
B.P. 5077
Dakar
Senegal
West Africa

Directeur
Ecole des Agents Techniques de l'Elevage
et des Industries Animales
B.P. 201
Saint Louis
Senegal
West Africa

Directeur
Ecole Nationale des Agents Techniques
de Eaux et Forets
B. P. 39
Ziguinchor
Senegal
West Africa

Directeur
Centre National de Formation de Monitrices d'Economie
Familiale Rurale
B.P. 189
Thies
Senegal
West Africa

Doyen
Ecole Nationale des Cadres Ruraux
B.P. 41
Bambey
Senegal
West Africa

Directeur
Centre National des Maisons
Familiales Rurales
B. P. 131
Thies
Senegal
West Africa

Directeur
L'Ecole Normale d'Horticulture a Cambereie
Carberene, B.P. 5194
Dakar
Senegal
West Africa

Directeur
Ecole des Agents Techniques de l'Agriculture
Boite Postale 4
Ziguinchor
Senegal
West Africa

Directeur
Ecole des Agents Techniques
d'Océanographie et des Pêches Maritimes
B.P. 2241
Dakar
Senegal
West Africa

Directeur
Ecole des Agents
Techniques d'Agriculture
Louga
Senegal
West Africa

GENERAL INFORMATION:

Name: Ecole Inter-Etats des Sciences
et Médecine Veterinaires de Dakar
Mailing Address: B. P. 5077
Dakar
Senegal

University Established in 1971

Faculty Established in 1968-69

Source of Financial Support:

1* Reparti entre les Etats Membres (14)

Send in-
quiries to: Directeur

Language(s) of Instruction:

Francais

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs

The Academic Year begins in octobre

and ends in Juillet

Degrees and Qualifications Awarded:

D.V.M. (ETAT), Post Universitaire sur le
Pastoralisme et en voie de démarrage

Minimum Entrance Requirements

for First Degree program:

Titulaire de Baccaloréat (C ou D) et du
C.P.E.V., ou avoir DUES complete, Les
Agents de L'élevage des états membres et
Bacheliers qui ont suivi une Cycle de
formation de cadre (2-ans)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	135	7	142
Total Number of Full-time Students	135	7	142

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Veterinary			20
Total No. Graduates			20

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	_____	_____
Doctoral Degree	_____	_____
Total Number *	22	22

Academic Departments

Pharmacie - Toxicology
Physique - Médicale, Chimie-Biologique
Anatomie - Histologie - Embryologie
Physiologie - Pharmacodynamie - Thérapeu-
tique
Parasitologie-Maladies Parasitaires-
Zoologie
Hygiène et Industrie des Denrées d'origine
animale
Médecine-Anatomie Pathologique-Clinique
Ambulante
Reproduction et Chirurgie
Microbiologie-Pathologie Générale-Maladies
Contagieuses
Zootechnie - Alimentation-Droit-Economie

* 1* This school serves 12 states of Benin, Cameroun,
R.C.A., France, Gabon, Haut Volta, Mauritanie, Niger,
Senegal, Tchad, Togo, Zaire

GENERAL INFORMATION:

Name: Ecole des Agents Techniques de l'Elevage et des Industries Animales
 Mailing Address: B. P. 201 Saint-Louis Senegal

Send inquiries to: Directeur

Year established: 64

Source(s) of Support: Ministere d'Education et cooperation technique Suisse

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3			3
Teaching	1	2	1	4
Technical			5	5
Total	4	2	6	12

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	63		63

Minimum years of education required for entrance: 9 years

Qualifications awarded: Diplome d'Agent Technique de l'Elevage et des Industries Animales
 Graduates by Curricula in 1978:
 Elevage et Science Veterinaire 23

TOTAL 23

Language(s) of instruction: Francais

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	_____
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	100%

GENERAL INFORMATION:

Name: Centre National de Formation de Montrices d'Economie Familiale Rurale
 Mailing Address: B. P. 189 Thies Senegal

Send inquiries to: Maitresse d'Economie Familiale Rurale

Year established: 1969

Source(s) of Support: Ministere de l'Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	2			2
Teaching	3			3
Technical				
Total	5			5

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	-	22	22

Minimum years of education required for entrance: 4ème secondaire general

Qualifications awarded: Certificat

Graduates by Curricula in 1978:
 Vulgarisation de l'Enseignement General 16
 TOTAL 16

Language(s) of instruction: Francais

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	100%

GENERAL INFORMATION:

Name: Ecole Nationale des Agents Techniques
des Eaux et Forêts

Mailing Address: B. P. 39
Ziguinchor
Senegal

Send in-
quiries to: Directeur

Year established: 1966

Source(s) of Support: Ministère de l'Education and Cooperation
Technique Suisse

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	1	1	2
Teaching	1	—	—	1
Technical	5	—	2	7
Total	6	1	3	10

STUDENTS AND CURRICULA:

1978/79	Male	65
STUDENT	Female	—
ENROLLMENT:	Total	65

Minimum years of education
required for entrance: 10 years

Qualifications awarded: Diplome d'Agent Technique
des Eaux et Forets.

Graduates by Curricula in 1978:

Forestry	39
—	—
—	—
—	—
TOTAL	39

Language(s) of instruction: Francais

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric.development bank,cooperative,etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	—
	100%

SEYCHELLES

Seychelles is a former British Crown Colony which became independent in 1976. It consists of a group of islands in the Indian Ocean, northeast of Madagascar.

The educational system of the Seychelles is based on the British model. English is the medium of instruction although French is introduced in the fourth year of secondary school. Education is not compulsory.

Students spend six years in primary school. Secondary education is available in five-year grammar schools or in two-year junior high schools followed by a two-year vocational or technical program. Admission to the junior high schools is automatic following completion of primary school. Students desiring admission to grammar schools, however, are required to take a competitive entrance examination during their sixth year of primary school.

Grammar school studies lead to the Cambridge Joint Overseas School Certificate and the General Certificate of Education (GCE "O" level). By spending two years in grammar school beyond "O" level students prepare for the Advanced Level examinations leading to the advanced level external certificate.

Students in the junior high schools may enter two-year vocational or technical programs leading to the Royal Society of Arts examinations. Completion of either stream of secondary school qualifies the student to enter the three-year program at the Teacher Training College. University and higher professional training are only available abroad. There are no intermediate or higher agricultural education institutions in the Seychelles.

REPUBLIC OF SIERRA LEONE

The educational system of Sierra Leone consists of a six-year elementary school program, followed by a five- to seven-year secondary program consisting of forms 1 to 6, after which time there are university level programs.

Primary Education

In the early 1970's financial constraints and the desire of the government to expand opportunities for education to a larger portion of the primary-school-age population led to a re-examination of primary school education. Several proposals were made in subsequent years and finally the age of entry to primary school was set at six years with the existing course being reduced to six classes over a seven year grace period. The Ministry of Education was reported to have given approval to the six-class program, but in early 1976 it was not known whether raising the entry age had been approved. The primary school curriculum includes arithmetic, English, social studies, religion, art, music, stories and drama, physical education, science and home crafts. The program is geared toward preparing students to enter secondary school, although only a small percentage of primary school students actually attain this goal.

Secondary Education

The goal of secondary education in Sierra Leone is to provide continuing general education, as well as specialized courses leading to either postsecondary education or to direct employment. Secondary education normally lasts from five to seven years and consists of forms 1 to 6; the sixth form is divided into a lower and an upper form. Forms 1 to 5 lead to the West African School Certificate or to the General Certificate of Education, ordinary and advanced levels. The secondary school-leaving age is sixteen for form 5 and eighteen for upper form 6.¹

Parallel with the academic secondary schools are the technical or vocational secondary schools, the trade centers, the technical institutes, and teacher training schools. Certificate examinations are available at the end of the third, fifth, and eighth years of these programs.¹

Higher Education

Programs are available at certificate, diploma, degree, and postgraduate degree levels at the University of Sierra Leone which is comprised of the two constituent colleges, Fourah Bay College and Njala University College. The duration of study required for the Bachelor's degree is three to four years depending upon entry qualifications. A Bachelor's degree with honors requires an additional year. The Master's degree, requiring from one and a half to three years of full-time study, or three to four and a half years of part-time study, is awarded in the arts, economics and social studies, education, geography, mathematics, pure and applied sciences, and theology. The Doctorate is available in the arts and sciences and requires a minimum of three, six, or nine terms of study, depending on entry qualifications and time allotted.¹ In nondegree programs, diplomas are awarded in engineering, aquatic biology, and fisheries and require three years of study. The Higher Teachers' Certificate in Agricultural Education also requires three years of study.¹

¹The International Encyclopedia of Higher Education, 1977 ed., s.v. "Sierra Leone, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN SIERRA LEONE

Dean
Faculty of Agriculture
Njala University College
University of Sierra Leone
Private Mail Bag
Freetown
Sierra Leone
West Africa

Head
Department of Agricultural Science
Milton Margai Teachers College
Goderich, Near Freetown
Sierra Leone
West Africa

Head
Department of Agricultural Science
Union Teachers' College
Bunumbu,
Via Siegbwema
Sierra Leone
West Africa

GENERAL INFORMATION:

Name: Milton Margai Teacher College
Goderich

Mailing Address: Near Freetown
Sierra Leone
West Africa

Send inquiries to: The Registrar

Year established: 1960

Source(s) of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	—	—
Teaching	—	—	3	3
Technical	1	—	—	1
Total	1	—	3	4

STUDENTS AND CURRICULA:

1978/79	Male	57
STUDENT	Female	13
ENROLLMENT:	Total	70

Minimum years of education required for entrance: 11 years

Qualifications awarded: Higher Teachers Certificate

Graduates by Curricula in 1978:	
Agricultural Education	14
Home Economics Education	7
TOTAL	21

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	—
Teaching in Schools.....	100
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other:	100%

DEMOCRATIC REPUBLIC OF SOMALIA

At independence in 1960, Somalia inherited a deeply troubled educational system comprised of the embryonic Italian and British colonial educational systems. In 1963 a 5-year UNESCO plan unified the systems, making elementary, intermediate and secondary levels four years each. The Somali language was made the medium of instruction in the primary school in 1973 after adoption of a Roman script the previous year. In 1970, the University Institute, founded in the 1950's, became the National University of Somalia. Since independence at least one post-secondary and several intermediate institutes have been built.

Primary Education

Although modern, western education was late in coming to Somalia, most children received formal schooling in two year Koranic schools that provide instruction in the Koran, rudimentary reading, arithmetic and Arabic. At present, secular primary education lasts four years. Like all education in Somalia, it is free. There is an open promotions policy for students progressing to the secondary level of education. The medium of instruction is Somali.

Secondary Education

Secondary education in Somalia is divided into two levels, lower secondary and upper secondary, each lasting four years. At the upper secondary level students may choose general academics or agricultural secondary school after which they receive the secondary school certificate which is the minimum requirement for entry to the National University. According to a law passed in 1971 all secondary school graduates are required to join the national service in which they receive military training and serve for 9 months as primary school teachers. Upon completion of this service, students are allowed to go on to university as space permits. Those not gaining entrance to a university faculty are given employment in the government or private sector.

Higher Education

The National University of Somalia is the sole degree-granting institution in that country. It has its origin in several institutions established in the 1950's to provide two years of professional training that were either terminal or transferrable to an Italian 4-year university. Then, as now, many Somalis were educated in Europe and in other African countries.

Before 1970 the National University provided study in the fields of law, economics, political science and education. In 1973 the faculties of veterinary, science, medicine, geology, engineering, agriculture and chemistry were added. Bachelor degrees are awarded in each of the faculties upon successful completion of four years of study except in the case of medicine which requires six years. No graduate studies, diplomas or certificates are awarded.

The university is attempting to make its programs more responsive to the development needs of the country. For example, during the 1974-75 drought faculty and students participated in relief efforts. In the academic year 1975-76 a range management program was introduced.

Technical and vocational education in Somalia is only offered at the upper secondary level (that is upon the completion of the lower secondary school). Several institutions train middle-level technical staff for government ministries in such fields as agriculture, nursing, health personnel and veterinary medicine. Teacher education is obtained at the National University for both primary and secondary teachers, although primary teacher training facilities were nearing completing in the mid-70's.

1
International Encyclopedia of Higher Education, 1977 ed., s.v. "Democratic Republic of Somalia."

AGRICULTURAL EDUCATION INSTITUTIONS IN SOMALIA

Faculty of Agriculture
Somali National University
P. O. Box 801
Mogadiscio
Somalia
East Africa

Principal
Ag. Secondary School
Afgoi
Somalia
East Africa

Principal
Veterinary Asst. Training School
Mogadiscio
Somalia
Eastern Africa

REPUBLIC OF SOUTH AFRICA

The educational system of South Africa is characterized by strict segregation of the races: White, Indian/Asiatic (referred to as Indian), Coloured (Africans of mixed descent) and Black (Africans), with a separate school system for each. A twelve-year primary and secondary educational program is provided for all, as well as opportunity for university and other post-secondary training. Facilities, quality of teachers and organization differ from group to group, however. Although there has been a recent increase in numbers of ethnics receiving an education, the greatest opportunity is open to Whites, both in quality of education and in scope of opportunity.

Elementary Education

Primary education is free and compulsory for White children who normally begin school at the age of six. Non-white children are not required by law to attend school and must pay for the privilege; they enter school at seven years of age. White and Indian children attend primary school for six years, while Coloured and Black children attend for seven. White, Coloured and Indian children are taught in English or Afrikaans throughout the duration of their education, while Black children are taught in the vernacular of their locale through the sixth year of school. After that year they are taught in either English or Afrikaans, depending upon the choice of their parents. Black children take a secondary school entrance examination called the Higher Primary Certificate at the end of the seventh year, a condition not required of the other groups.

Secondary Education

Secondary schooling is divided into two phases, Junior Secondary and Senior Secondary. The Junior Secondary phase is two years long for all students. An examination is administered at the end of the Junior Secondary cycle to all Non-white students. The Senior Secondary course is uniformly two years. All students write the Senior Certificate examination at the end of the senior secondary school. Students may elect to enter secondary programs which emphasize vocational and technical training rather than a university preparatory program.

Higher Education

Post-secondary education follows the racial split established in the primary and secondary systems. White universities are autonomous bodies, while Non-white institutions are responsible to the state. Non-white educational facilities do not measure up to those used by Whites. Admission to South African universities is granted if the prospective student has a Senior Certificate with Matriculation Exemption or passes the Matriculation Examination set by the Joint Matriculation Board (J.M.B.).

There are ten White universities, four teaching in English, four in Afrikaans and two using both languages. Both Whites and Non-whites study under the University of South Africa, a non-residential, correspondence university. The five Non-white universities are geared to ethnic background, three for Blacks, one for Indians and one for Coloureds. The three Black universities are for the three major Black language groups -- one for the Sotho, one for the Zulu, and one for the Xhosa. Blacks may attend White universities if a Non-white university does not offer the desired course of study and if the student obtains the consent of the government, but they may not live on campus.

All universities offer the bachelor's degree requiring between three and six years of study, depending upon the subject pursued. Honour's, master's, and doctoral degrees are also granted. Whites may study architecture, agriculture, art, administrative science, commerce, dentistry, economics, education, engineering, law, medicine, science, social science and theology. Each Non-white university offers the bachelor's degree in arts, social science, commerce, science and law, while education, library science, administration, agriculture, education and land surveying are offered at various Non-white universities, but not all. Diploma and certificate courses are available for students not qualifying for the bachelor's degree program.

Vocational and technical education for whites is especially well supported in South Africa due to the mining and industrial development activities. White students interested in an advanced technical education may apply to one of six technikons after secondary school. In addition, there are nearly thirty technical colleges which students may enter before completing secondary study. Among the many subjects offered are agriculture, engineering, metallurgy, administration and merchant shipping. Two technical colleges are provided for Indians and Coloureds. Teacher training courses are also available, often in conjunction with the universities, as well as for nursing.

AACRAO World Education Series, Southern Africa, by David J. Cranmer, 1980.

Cranmer, D. J. Barrington College, Rhode Island. Paper presented at the 1979 AACRAO meeting.

International Encyclopedia of Higher Education, 1977 ed., s.v., "South Africa, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN SOUTH AFRICA FOR BLACKS

The Registrar
University of Fort Hare
Private Bag 1314
Alice, 5700
South Africa

Principal
Fort Cox Agricultural College
P.O. Middledrift, 5685
South Africa

The Principal
Taung Agricultural College
Private Bag X532
Taung, 8584
Bophuthatswana
South Africa

Principal
Tsolo Agricultural College
P.O. Tsolo, 5170
Transkei
South Africa

Principal
Cwaka Agricultural College
Private Bag X3513
Empangeni, 3880
South Africa

Principal
Lennox Sebe Training College
Private Bag X503
Zwelitsha, 5608
South Africa

Rector
Transvaal Teachers' Training College
Private Bag XII
Soshanguve 0152
Mabopan Transvaal
South Africa

Principal
Tompoti Seleka Agricultural College
Private Bag X619
Marble Hall, 0450
South Africa

GENERAL INFORMATION:

Name: University of Fort Hare

University Established in 1916

Mailing Address: Private Bag X 1314
Alice 5200
South Africa

Faculty Established in 19

Source of Financial Support:

Ministry of Education

Send inquiries to: Assistant Registrar (Academic)

Language(s) of Instruction:
English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
Degree, Diploma and Certificate

(a) Academic Degree programs

(b) Educational Exchange programs

Minimum Entrance Requirements
for First Degree program:
12 years

The Academic Year begins in

and ends in

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	127	10	137
Ingenieur Agronome Students			
Advanced Degree Students			
Total Number of Full-time Students	127	10	137

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
General Agriculture	9		
Total No. Graduates		9	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Academic Departments
General Agriculture

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	3 + 6 (Technical Support Staff)	
Ingenieur Agronome	2	
M. Sc. Degree or Equivalent	8	
Doctoral Degree	6	
Total Number	27	

GENERAL INFORMATION:

Name: Tompi Seleka College of Agriculture

Mailing Address: Private Bag X619
Marble Hall 0450
South Africa

Send in-quiries to: Principal

Year established: 1960

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	6	2		8
Teaching	18		2	20
Technical	3	6		9
Total	27	8	2	37

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	156		156

Minimum years of education required for entrance: 10 years

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:

General Agriculture	38
TOTAL	38

Language(s) of instruction: English

Duration of courses: 1 and 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	96
Teaching in Schools.....	
Technical staff at an educational or research institution.....	1.5
Agric. development bank, cooperative, etc.	1
Agri-business firms.....	0.5
Farming or farm management.....	0.5
Entered nonagricultural employment.....	0
Continue their education.....	0.5
Unemployed.....	
Other:	100%

GENERAL INFORMATION:

Name: College of Agriculture

Mailing Address: P. O. Tsolo 5170
Transkei
South Africa

Send in-quiries to: Principal

Year established: 1904

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3			3
Teaching		1		1
Technical	13			13
Total	16	1		17

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	146		146

Minimum years of education required for entrance: General Secondary Educ.

Qualifications awarded: Agricultural Diploma

Graduates by Curricula in 1978:

General Agriculture	32
TOTAL	32

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	100
Teaching in Schools.....	
Technical staff at an educational or research institution.....	
Agric. development bank, cooperative, etc.	
Agri-business firms.....	
Farming or farm management.....	
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other:	100%

GENERAL INFORMATION:

Name: Transvaal Teachers Training College

Mailing: Private Bag X11
Address: Soshanguve 0152, Transvaal
South Africa

Send in-
quiries to: Rector

STUDENTS AND CURRICULA:

1978/79	Male	<u>103</u>
STUDENT	Female	<u>188</u>
ENROLLMENT:	Total	<u>291</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded:

Graduates by Curricula in 1978:

(First Graduates in 1981)	_____
Home Economic Education	_____
TOTAL	<u>_____</u>

GENERAL INFORMATION:

Name: Lennox Sebe Teacher Training College

Mailing: Private Bag X503
Address: Zwelitsha 1608
South Africa

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>11</u>
STUDENT	Female	<u>44</u>
ENROLLMENT:	Total	<u>55</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Junior or Senior
Secondary Teachers Certificate

Graduates by Curricula in 1978:

Home Economics Education	<u>15</u>
TOTAL	<u>15</u>

Year established: 1979

Source(s)
of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>4</u>	<u> </u>	<u> </u>	<u>4</u>
Teaching	<u>5</u>	<u>7</u>	<u>5</u>	<u>17</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>9</u>	<u>7</u>	<u>5</u>	<u>21</u>

Language(s) of instruction: English, Afrikaans,
Tswana, Northern
Sotho, Zulu

Duration of courses: 2 and 3 years

EMPLOYMENT OF GRADUATES:

	Percent
(First Graduates in 1981)	
Government Extension Service.....	<u>1981</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farm or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

Year established: 1978

Source(s)
of Support: Ministry of Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>2</u>	<u> </u>	<u> </u>	<u>2</u>
Teaching	<u>3</u>	<u>3</u>	<u> </u>	<u>6</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>5</u>	<u>3</u>	<u> </u>	<u>8</u>

Language(s) of instruction: English

Duration of courses: 1 and 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>2</u>
Teaching in Schools.....	<u>95</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u>1</u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>2</u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

DEMOCRATIC REPUBLIC OF THE SUDAN

Since the independence of the Sudan in 1956, the educational system has been examined by four official committees. The system was changed in 1970 to a 6-3-3 ladder instead of the 4-4-4 ladder previously established. Primary education and secondary education at state schools in the Sudan are free but not compulsory. ¹When a child reaches the age of seven, he or she may enter school if space is available.

Primary Education:

The objective of the first six years of school is to give the child an opportunity to obtain a basic education emphasizing literacy and numeracy. Such a basic education also enables the child to face life and undergo vocational training at a comparatively older age than was accomplished with the former 4-4-4 educational system. ²

General Secondary Education:

The first three years of general secondary gives students a general background knowledge of science, mathematics, and a foreign language, English. ² A student does have the option to pursue two years of vocational education at this level, rather than pursuing the general secondary school curriculum.

Higher Secondary Education:

Higher secondary education has two streams. Students entering the 3-year academic stream pursue a general education course for the first year before selecting either the sciences or the arts division. During their third year, students in the academic stream prepare for the Sudan Higher Secondary School Certificate examination in 5 subjects, 4 of which are compulsory (English, Arabic, Math and Religion).

Students entering the vocational stream at the higher secondary level have a choice between 4 types of schools: commercial, technical, agricultural and home economics. Vocational education lasts 4 years, after which students sit an examination to receive the Sudan Higher Technical Secondary School Certificate. Possession of a secondary school certificate is required for admission to any post-secondary institution in the country. ³

Higher Education:

A Sudan Higher Secondary School Certificate or equivalent with at least five credits and a pass in English are needed for admission to Sudanese universities and university-level institutions. The average length of a university program is four or five years for the bachelor's degree; students must sit for a written examination and satisfy the examiners in all subjects of the examination. The master's degree requires three years of study beyond the bachelor's, and the candidate must submit a dissertation and may also be required to take a written or oral examination. Three to five additional years of research and study are required to obtain a Doctor of Philosophy degree. Postgraduate diplomas are offered in some selected faculties. Higher education is essentially free at Sudanese institutions.

¹The International Encyclopedia of Higher Education.
Asa S. Knowles (Ed.-in-chief) San Francisco: Jossey-Bass, Vol. 8, 1977.

²Ministry of Education, Khartoum, June 1976.

³International Guide to Education Systems UNESCO 1979

AGRICULTURAL EDUCATION INSTITUTIONS IN SUDAN

Dean
Faculty of Agriculture
University of Gezira
Wad Medani
Gezira Province
Sudan
North Africa

Principal
Yambio Institute for Agriculture
Yambio
Equatoria Province
Sudan
North Africa

Dean
College of Natural Resources and
Environmental Studies
Juba University
P. O. Box 85
Juba
Sudan
North Africa

Director
College of Agricultural
and Natural Resources Abu Haraz
P.O. Box 42
Wad Medani
Gezira Province
Sudan
North Africa

Dean
Faculty of Agriculture
University of Khartoum
P. O. Box 32
Sharbat, Khartoum North
Sudan
North Africa

Principal
Wad El Magboul Institute for Rural Technicians
Rural Water Corporation
P.O. Box 381
Khartoum
Sudan
North Africa

Dean
Faculty of Veterinary Medicine
University of Khartoum
P. O. Box 32
Shambat, Khartoum North
Sudan
North Africa

Principal
Fisheries Officers and Fishermen Training Institute
P. O. Box 2
Shagarra
Khartoum
Sudan
North Africa

Principal
Barakat Training Center
Barakat
Sudan
North Africa

Dean
College of Agricultural Studies
Khartoum Polytechnic
P.O. Box 71
Khartoum North
Sudan
North Africa

Principal
Abu Naana College of Agricultural
& Natural Resources
Abu Naana
Blue Nile Province
Sudan
North Africa

Principal
Musaed Agricultural Training Center
Musaed
Sudan
North Africa

Principal
Tozi Agricultural Machinery Training Center
Blue Nile Province
Sudan
North Africa

Principal
Rumbek Agricultural Training Centre
Lakes Province
Rumbek
Sudan
North Africa

GENERAL INFORMATION:

Name: College of Natural Resources and Environmental Studies

Mailing Address: University of Juba
P.O. Box 82
Juba
Sudan

Send inquiries to: Dean

Institution accepts Foreign students for:

(a) Academic Degree programs No

(b) Educational Exchange programs No

The Academic Year begins in September

and ends in July

University Established in 1977

Faculty Established in 1977

Source of Financial Support:

Sudan Government

Language(s) of Instruction:

English

Degrees and Qualifications Awarded:

B.Sc.

Minimum Entrance Requirements for First Degree program:

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	<u>151</u>	<u>20</u>	<u>171</u>
Ingenieur Agronome Students	<u> </u>	<u> </u>	<u> </u>
Advanced Degree Students	<u> </u>	<u> </u>	<u> </u>
Total Number of Full-time Students	<u>151</u>	<u>20</u>	<u>171</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula B.Sc. M.Sc. Doct.

Curricula	B.Sc.	M.Sc.	Doct.
Not yet			
Total No. Graduates			

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

<u>Level of Education</u>	<u>Full-Time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	<u> </u>	<u> </u>
Ingenieur Agronome	<u> </u>	<u> </u>
M. Sc. Degree or Equivalent	<u>5</u>	<u>3</u>
Doctoral Degree	<u>11</u>	<u>1</u>
Total Number	<u>16</u>	<u>4</u>

Academic Departments

- 1) Crop Science
- 2) Animal Science
- 3) Forestry
- 4) Fisheries
- 5) Wildlife

GENERAL INFORMATION:

Name: Abu Naama College of Agriculture and Natural Resources
 Mailing: Abu Naama
 Address: Sudan

Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT: Male 142
 Female -
 Total 142

Minimum years of education required for entrance: 12 Years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:

First Graduates in June, 1980 (70)
 TOTAL _____

Year established: 1978
 Source(s) of Support: Higher Education Grants Committee

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>5</u>	<u>-</u>	<u>-</u>	<u>5</u>
Teaching	<u>-</u>	<u>8</u>	<u>10</u>	<u>18</u>
Technical	<u>11</u>	<u>-</u>	<u>-</u>	<u>11</u>
Total	<u>16</u>	<u>8</u>	<u>10</u>	<u>34</u>

Language(s) of instruction: English
 Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	_____
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	<u>100%</u>

GENERAL INFORMATION:

Name: College of Agriculture and Natural Resources, Abu Haraz
 Mailing: P.O. Box 42
 Address: Wadmeilanf, Gezera Sudan

Send in-quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT: Male 270
 Female -
 Total 270

Minimum years of education required for entrance: 12 Years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:

Agricultural Extension -- First Graduates in 1980 (90)
 TOTAL _____

Year established: 1978
 Source(s) of Support: Higher Education Grants Committee

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>7</u>	<u>1</u>	<u>2</u>	<u>10</u>
Teaching	<u>-</u>	<u>8</u>	<u>2</u>	<u>10</u>
Technical	<u>5</u>	<u>-</u>	<u>-</u>	<u>5</u>
Total	<u>12</u>	<u>9</u>	<u>4</u>	<u>25</u>

Language(s) of instruction: English
 Duration of courses: 3 Years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>31</u>
Teaching in Schools.....	<u>-</u>
Technical staff at an educational or research institution.....	<u>2</u>
Agric. development bank, cooperative, etc.	<u>5</u>
Agri-business firms.....	<u>2</u>
Farming or farm management.....	<u>40</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>20</u>
Unemployed.....	<u>-</u>
Other: _____	<u>-</u>
	<u>100%</u>

GENERAL INFORMATION:

Name: College of Agricultural Studies

Mailing Address: Khartoum Polytechnic
Shambat, Box 71
Khartoum North
Sudan

Send in-quiries to: Lean

Year established: 1975

Source(s) of Support: The National Council for Higher Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	—	—
Teaching	25	27	27	79
Technical	—	—	—	—
Total	25	27	27	79

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	367	43	410

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

Percent

Minimum years of education required for entrance: Sudan High Secondary School Certificate or its equivalent

Qualifications awarded: Diploma in general Agriculture, Veterinary, Animal Production and Forestry

Graduates by Curricula in 1978:

1. General Agriculture	80
2. Veterinary and Animal Husbandry	35
3. Forestry	25
TOTAL	140

Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	—
	100%

Note: Khartoum Polytechnic includes the former Shambat Institute of Agriculture, Forestry Technicians College at Suba and Veterinary and Animal Production Training Center at Kuku. Specific addresses for the divisions follow, but enrollment and graduate data are included above.

Dept. of Agricultural Technicians
Khartoum Polytechnic
P.O. Box 71
Khartoum North
Sudan

Forestry Technicians Division
Khartoum Polytechnic
P.O. Box 6146 (Peoples Hall)
Khartoum, Sudan

Veterinary & Animal
Husbandry Technicians
Division
Khartoum Polytechnic
P.O. Box 204
Khartoum North, Sudan

The College of Agriculture and Natural Resources at Abu Naama and the College of Agriculture and Natural Resources at Abu Haraz are also affiliated with Khartoum Polytechnic, but information on these two colleges are listed separately.

GENERAL INFORMATION:

Name: Wad El Magboul Institute for
Rural Water Technicians
Mailing: Rural Water Corporation
Address: P. O. Box 381
Khartoum
Sudan
Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 114
STUDENT Female
ENROLLMENT: Total 114

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Diploma, 3 year course;
Certificate, 1 year course
Graduates by Curricula In 1978:
Drillers 42
Land Surveying 37

TOTAL 79

GENERAL INFORMATION:

Name: Rumbek Agricultural Training Centre
Mailing: Lakes Province, Rumbek
Address: Sudan
Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 23
STUDENT Female
ENROLLMENT: Total 23

Minimum years of education
required for entrance: 7 years

Qualifications awarded: Certificate in Agriculture
Graduates by Curricula in 1978:

23

TOTAL 23

Year established: 1962

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u>1</u>	<u>1</u>	<u>3</u>
Teaching	<u>15</u>	<u>2</u>	<u>7</u>	<u>24</u>
Technical	<u>3</u>			<u>3</u>
Total	<u>19</u>	<u>3</u>	<u>8</u>	<u>30</u>

Language(s) of instruction: English

Duration of courses: 1 and 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>1</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u>62</u>
Continue their education.....	<u>2</u>
Unemployed.....	<u> </u>
Other: <u>Employed outside Sudan</u>	<u>35</u>
	<u>100%</u>

Year established: 1977

Source(s)
of Support: Ministry of Agriculture, U. S. Aid

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	<u> </u>	<u> </u>	<u>1</u>
Teaching	<u>3</u>	<u> </u>	<u> </u>	<u>3</u>
Technical	<u> </u>	<u> </u>	<u>2</u>	<u>2</u>
Total	<u>4</u>	<u> </u>	<u>2</u>	<u>6</u>

Language(s) of instruction: English and Arabic

Duration of courses: One year

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>100</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u> </u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: <u> </u>	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Fisheries Officers and
Fishermen Training Institute
Mailing Address: P. O. Box 2
Shagarra, Khartoum
Sudan

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>23</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>23</u>

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	<u>20</u>
	<u> </u>
	<u> </u>
TOTAL	<u>20</u>

Year established: 1970

Source(s)
of Support: Ministry of Agriculture

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>5</u>	<u>1</u>	<u>1</u>	<u>7</u>
Teaching	<u>3</u>	<u>3</u>	<u>9</u>	<u>15</u>
Technical	<u>3</u>	<u> </u>	<u> </u>	<u>3</u>
Total	<u>11</u>	<u>4</u>	<u>10</u>	<u>25</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>84</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u>10</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u>1</u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

SWAZILAND

The educational system of Swaziland is similar to that of Botswana and Lesotho and reflects the British system under which it was instituted. The primary school program is seven years in length, while the secondary course of study requires five years to complete. Post-secondary education is available at the University of Botswana and Swaziland as well as various teachers colleges and vocational educational institutions. Since independence the government has emphasized practical education geared to manpower needs.

Elementary Education

The seven-year primary program is not compulsory, although the government is working toward the goal of providing primary education for all children. Students are instructed in Siswati, the national language, for the first three years of school and in English the remaining four. The government has initiated a major curriculum revision at the primary level emphasizing agriculture and other useful subjects to foster rural development. However, successful implementation of the program has been impeded by the low-level of primary teacher education.

Secondary Education

The secondary level course of study is divided into two segments, the three-year junior secondary level and a two-year secondary level. At the end of the first, a Junior Certificate is awarded to each student passing an examination. Another examination is given at the end of the senior secondary level which results in the Cambridge Overseas Certificate. Enrollment in the five-year secondary program has been expanding rapidly since 1965, showing a 63 percent increase between 1972-1976 (10,618 students to 17,396).¹ Increasingly, the emphasis is on vocational education.

The Youth Service is a separate program initiated in 1969 to train young people who are unable to obtain a primary school education or to continue to secondary school. Geared toward the rural areas, the Youth Service offers a ten-month course in agriculture, civics and general education.²

Higher Education

The University of Botswana and Swaziland offers both four-year degrees and two-year diploma courses. The University, a cooperative effort between Botswana and Swaziland, has two campuses, the University College of Botswana in Gaborone and the University College of Swaziland in Kwaluseni. To avoid duplication of faculty and facilities, each campus emphasizes a different discipline. The Swaziland campus offers four-year courses in agriculture, agricultural education, commerce and accounting, while Botswana provides training in the sciences, economics and social studies. A Cambridge Overseas School Certificate at ordinary level and English language competency is required for entry.

Technical training is provided by the Swaziland College of Technology (SCOT) which prepares students to become technicians in electronics, mechanical engineering, tele-communications and mechanics. Drafting, hotel management and catering, and commercial training is also offered.

Teacher education for secondary schools is offered by the William Pitcher College and the Nazarene Training College, both affiliated with the University.

¹Letter, July 2, 1979, M. B. Mbelu, Ministry of Education, Swaziland Government.

²The International Encyclopedia of Higher Education, 1977 ed. s.v. "Swaziland, Kingdom of."

Dean
 Faculty of Agriculture
 University College of Swaziland
 P.O. Luyengo
 Swaziland
 Southern Africa

Principal
 Veterinary Training Center
 Manzini
 Swaziland
 Southern Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture
 University College of Swaziland
 Mailing
 Address: P. O. Luyengo
 Swaziland

Send in-
 quires to: Dean and Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>163</u>
STUDENT	Female	<u>78</u>
ENROLLMENT:	Total	<u>241</u>

Minimum years of education
 required for entrance: Ordinary Level G.C.E.

Qualifications awarded: Certificate, Diplomas
 and Degrees

Graduates by Curricula in 1978:

Not Ascertained	_____

TOTAL	_____

Year established: 1965

Source(s) of Support: Ministries of Agriculture and
 Education

STAFFING	<B.S	B.S	>B.S	Total
Administrative	_____	_____	_____	_____
Teaching	_____	_____	_____	_____
Technical	_____	_____	_____	_____
Total	_____	_____	_____	_____

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	_____
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric.development bank,cooperative,etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	<u>100%</u>

UNITED REPUBLIC OF TANZANIA

Originally based on the British model, education in Tanzania has been altered to more directly serve development needs. The changes are most evident at the secondary level, which is geared to vocational training, and in the revision of university admission requirements, which dictate that an applicant must have work experience, in addition to academic qualifications.

Elementary Education

Primary education is not compulsory and is financed by the state. Enrolling all children in primary programs is an important goal of the central government. No age is set for enrollment, and most children enter primary school after they are seven years old. The government has instituted a self-help program to pursue this goal. In rural areas, village people are urged to build school buildings, while the government provides a teacher, teaching materials and guidance.

Secondary Education

In the mid-1970's, the government directed that the thrust of secondary education be changed from academic preparation to practical training that would prepare the student for work. At the end of the twelfth year students are examined for the National Secondary Certificate. Students may attend higher school for two years and earn the National Higher School Certificate. Secondary school students study arts, science, agriculture, domestic science, crafts, secretarial, commercial and technical courses.¹ Secondary schooling is funded by the government.

Higher Education

Adhering to the policy of practical training set by the government, admission to the University of Dar es Salaam, Tanzania's only university, is governed by the prerequisite that candidates have work experience and that they be recommended by their employer, as well as meeting the academic qualifications. Applicants must have completed the Higher School Certificate or possess equivalent qualifications. Character, maturity and work record are also considered in the admission process. The government also finances the student's education and requires, in return, that university graduates serve the public for five years after graduation. Students may earn the bachelor's, master's and doctorate degrees in agriculture and forestry, arts and social sciences, law, medicine, science and medicine. A bachelor's degree normally requires three years to complete.

A variety of post-secondary institutes have been established which train students in commercial and secretarial subjects, business education and accounting, development and finance, agriculture and wildlife and natural resources. Some of the institutes accept students who have completed only primary school. Students earn diplomas in courses lasting from two and a half to three years.

¹The International Encyclopedia of Higher Education, 1977 ed. s.v. "Tanzania, United Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN TANZANIA

Dean
Faculty of Agriculture and Forestry
University of Dar es Salaam
P.O. Box 643
Morogoro
Tanzania
East Africa

Principal
Kilombero Agricultural Training and
Research Institute
Private Bag
Ifakara
Tanzania
East Africa

Principal
Forest Training School, Olmotonyi
POB 943
Arusha
Tanzania
East Africa

Principal
Ministry of Agricultural Training Institute
P.O. Box 20
Kilosa
Tanzania
East Africa

Principal
Horticultural Research Institute
P.O. Box 3101
Arusha
Tanzania
East Africa

Principal
The Uyolet Agricultural Center
P.O. Box 400
Mbeya
Tanzania
East Africa

Principal
Livestock Training Institute, Tengeru
P. O. Box 3101
Arusha
Tanzania
East Africa

Principal
Agricultural Training Institute
P.O. Box 603
Morogoro
Tanzania
East Africa

Principal
Maruku MATI
P.O. Box 160
Bukoba
Tanzania
East Africa

Principal
Mkaka MATI
P. O. Box 180
Morogoro
Tanzania
East Africa

Principal
Central Veterinary Laboratory, Temeke
P.O. Box 9254
Dar es Salaam
Tanzania
East Africa

Principal
Veterinary Training Institute
P. O. Box 603
Morogoro
Tanzania
East Africa

The Director
Manpower Development Division
P. O. Box 2066
Dar es Salaam
Tanzania
East Africa

Principal
College of African Wild Life Management, Mweke
P.O. Box 3031
Moshi
Tanzania
East Africa

Principal
Mwajawa Ministry of Agriculture Training Institute
P.O. Box 51
Mwajawa
Tanzania
East Africa

Principal
Tunbi Training Institute
P.O. Box 306
Tabora
Tanzania
East Africa

Principal
Mtwari Ministry of Agriculture Training Institute
P.O. Box 121
Mtwara
Tanzania
East Africa

Principal
Mlingano MATI
P. O. Box 5051
Tanga
Tanzania
East Africa

Principal
Ukiriguru Ministry of Agricultural Training Institute
P.O. Box 1434
Mwanza
Tanzania
East Africa

Principal
Ministry of Agriculture, Nyegezi Training Institute
P. O. Box 1400
Mwanza
Tanzania
East Africa

GENERAL INFORMATION:

Name: Livestock Training Institute, Tengeru

Mailing Address: P. O. Box 3101
Arusha
Tanzania

Send in-quiries to: Principal

Year established: 71

Source(s) of Support: The Ministry of Livestock Development

STAFFING	<B.S	B.S	>B.S	Total
Administrative	5		1	6
Teaching	1	5	4	10
Technical	22			22
Total	28	5	5	38

STUDENTS AND CURRICULA:

1978/79	Male	256
STUDENT	Female	74
ENROLLMENT:	Total	330

Minimum years of education required for entrance: 11 years

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:

Animal Science Husbandry	70
_____	_____
_____	_____
TOTAL	70

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	85
Teaching in Schools.....	5
Technical staff at an educational or research institution.....	5
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	_____
Farming or farm management.....	_____
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	100%

GENERAL INFORMATION:

Name: Maruku Mati

Mailing Address: P. O. Box 160
Bukoba
Tanzania

Send in-quiries to: Principal

Year established: 1970

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	5	2		7
Teaching	14	2	1	17
Technical	53			53
Total	72	4	1	77

STUDENTS AND CURRICULA:

1978/79	Male	75
STUDENT	Female	12
ENROLLMENT:	Total	87

Minimum years of education required for entrance: 11 years

Qualifications awarded: Certificate

Graduates by Curricula in 1978:

General Agriculture	46
_____	_____
_____	_____
TOTAL	46

Language(s) of instruction: English mainly Kiswahili

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	80
Teaching in Schools.....	2
Technical staff at an educational or research institution.....	5
Agric. development bank, cooperative, etc.	4
Agri-business firms.....	5
Farming or farm management.....	4
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	_____
	100%

GENERAL INFORMATION:

Name: Central Vet. Laboratory, Temeke

Mailing P. O. Box 9254
Address: Dar-Es-Salaam
Tanzania

Send in-
quiries to: Director/Principal

Year established: 1963

Source(s) of Support: Ministry of Agriculture and formerly West Germany Technical Aid

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	3	8	11
Teaching	—	—	—	—
Technical	6	—	—	6
Total	6	3	8	17

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	25	6	31

Minimum years of education required for entrance: 11 years

Qualifications awarded: Certificate in Lab. Technology, Diploma in Laboratory Science
Graduates by Curricula in 1978:

Lab. Science (Vet.)	one year	9
Vet.Lab.Technology	three years	10
TOTAL		19

Language(s) of instruction: English

Duration of courses: 1 year and 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	80
Agrie.development bank, cooperative, etc. or research centres	—
ri-business firms.....	—
farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: University-Faculty of Vet. Sc.	20
Total	100%

GENERAL INFORMATION:

Name: Ministry of Agriculture Training Institute

Mailing P. O. Box 20
Address: Kilosa
Tanzania

Send in-
quiries to: Principal

Year established: 1972

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	8	—	1	9
Teaching	14	5	1	20
Technical	8	—	—	8
Total	30	5	2	37

Language(s) of instruction:

Duration of courses: 2 years

EMPLOYMENT OF GEADUATES: Percent Certif

Government Extension Service.....	46
Teaching in Schools.....	17
Technical staff at an educational or research institution.....	14
Agrie.development bank, cooperative, etc.	—
Agri-business firms.....	15
Farming or farm management.....	—
Entered nonagricultural employment.....	7
Continue their education.....	—
Unemployed.....	—
Other:	—
Total	100%

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	58	14	92

Minimum years of education required for entrance: 11 years

Qualifications awarded: Agriculture, Veterinary Certificate and Agricultural Nutrition Diploma
Graduates by Curricula in 1978:

General Agriculture	30
	—
	—
TOTAL	30

GENERAL INFORMATION:

Name: The Uyole Agriculture Centre
 Mailing Address: P. O. Box 400
 Mbeya
 Tanzania

Send inquiries to: Principal

Year established: 1975
 Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	1	1
Teaching	—	13	1	14
Technical	21	—	—	21
Total	21	13	2	36

STUDENTS AND CURRICULA:

1978/79	Male	273
STUDENT	Female	71
ENROLLMENT:	Total	344

Minimum years of education required for entrance: 12 years

Qualifications awarded: Certificate and Diploma

Graduates by Curricula in 1978:

Animal Science	57
Agronomy	90
TOTAL	147

Language(s) of instruction: English
 Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	59
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	21
Agric.development bank,cooperative,etc.	0 - 3
Agri-business firms.....	14
Farming or farm management.....	5
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

GENERAL INFORMATION:

Name: College of African Wildlife Management, Mweka
 Mailing Address: P. O. Box 3031
 Moshi
 Tanzania

Send inquiries to: Principal

Year established: 1963
 Source(s) of Support: Ministry of Natural Resources; Fees Paid; Doner Agencies

STAFFING	<B.S	B.S	>B.S	Total
Administrative	3	—	—	3
Teaching	—	11	2	13
Technical	2	—	—	2
Total	5	11	2	18

Language(s) of instruction: English
 Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	100
Agric.development bank,cooperative,etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

STUDENTS AND CURRICULA:

1978/79	Male	81
STUDENT	Female	—
ENROLLMENT:	Total	81

Minimum years of education required for entrance: 12 - 14 years

Qualifications awarded: Both Certificate and Diploma

Graduates by Curricula in 1978:

Wildlife Management	46
TOTAL	46

GENERAL INFORMATION:

Name: Ministry of Agriculture Training
Institutes, MPWAPWA
Mailing Address: P. O. Box 51
Mpwapwa
Tanzania
Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 148
STUDENT Female 24
ENROLLMENT: Total 172

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Certificate in Agro-Vet
and Diploma in Animal Health
Graduates by Curricula In 1978:
General Agriculture 68

TOTAL 68

GENERAL INFORMATION:

Name: Ministry of Agriculture Training
Institute
Mailing Address: P. O. Box 121
Mtwara
Tanzania
Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79 Male 115
STUDENT Female 12
ENROLLMENT: Total 127

Minimum years of education
required for entrance: 4 years general
Secondary Ed.

Qualifications awarded: Certificate
Graduates by Curricula in 1978:
General Agriculture 53

TOTAL 53

Year established: 1950

Source(s)
of Support: Ministry of Agriculture

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>6</u>	<u> </u>	<u>1</u>	<u>7</u>
Teaching	<u> </u>	<u>5</u>	<u>5</u>	<u>10</u>
Technical	<u>23</u>	<u> </u>	<u> </u>	<u>23</u>
Total	<u>29</u>	<u>5</u>	<u>6</u>	<u>40</u>

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>90</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>10</u>
Agri. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

Year established: 1975

Source(s)
of Support: Ministry of Agriculture

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>2</u>	<u> </u>	<u> </u>	<u>2</u>
Teaching	<u>9</u>	<u>4</u>	<u> </u>	<u>13</u>
Technical	<u>5</u>	<u> </u>	<u> </u>	<u>5</u>
Total	<u>16</u>	<u>4</u>	<u> </u>	<u>20</u>

Language(s) of instruction: English, Swahili

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>90</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>10</u>
Agri. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other:	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: Ministry of Agriculture Training
Institute Ukiriguru

Mailing Address: P. O. Box 1434
Mwanza
Tanzania

Send in-
quiries to: Principal

Year established: 1933

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	—	—
Teaching	—	—	—	—
Technical	N O T A S C E R T A I N E D			
Total	—	—	—	—

STUDENTS AND CURRICULA:

1978/79	Male	Female	Total
STUDENT ENROLLMENT:			214

Minimum years of education
required for entrance: 12 years

Qualifications awarded: Certificate of Diploma

Graduates by Curricula in 1978:	
Agricultural Extension (Cert.)	52
Crop Production	41
TOTAL	93

Language(s) of instruction: English

Duration of courses:

EMPLOYMENT OF GRADUATES:	N.A.	Percent
Government Extension Service.....	—	—
Teaching in Schools.....	—	—
Technical staff at an educational or research institution.....	—	—
Agric. development bank, cooperative, etc.	—	—
Agri-business firms.....	—	—
Farming or farm management.....	—	—
Entered nonagricultural employment.....	—	—
Continue their education.....	—	—
Unemployed.....	—	—
Other: _____	—	100%

GENERAL INFORMATION:

Name: Ministry of Agriculture
Nyegezi Training Institute

Mailing Address: P. O. Box 1400
Mwanza
Tanzania

Send in-
quiries to: Principal

Year established: 1964 upgraded in 1977 to Diploma

Source(s)
of Support: The Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	—	—	1	1
Teaching	—	10	4	14
Technical	12	—	—	12
Total	12	10	5	27

Language(s) of instruction: English

Duration of courses: 2 years

STUDENTS AND CURRICULA:

1978/79	Male	Female	Total
STUDENT ENROLLMENT:	204	9	213

Minimum years of education
required for entrance: 14 years

Qualifications awarded: Diploma

Graduates by Curricula in 1978:	
_____	_____
_____	_____
_____	_____
TOTAL	_____

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	—
Teaching in Schools.....	—
Technical staff at an educational or research institution.....	—
Agric. development bank, cooperative, etc.	—
Agri-business firms.....	—
Farming or farm management.....	—
Entered nonagricultural employment.....	—
Continue their education.....	—
Unemployed.....	—
Other: _____	100%

REPUBLIC OF TOGO

Since gaining independence in 1960, the government of Togo has sought to increase educational opportunity in spite of limited resources and financial difficulties created by crop failure in the mid-1970's. Efforts have also been made to emphasize African culture within the French-based educational system and to increase the number of Togolese nationals teaching in the system. The educational system consists of a six-year primary program, a five to seven-year secondary program, depending upon the area of study pursued by the student, and opportunities for higher education. The language of instruction is French.

Elementary Education

Primary education is six years in length. Students are examined for the CEPE (certificat de fin d'études primaires élémentaires) at the end of the program.

Secondary Education

Secondary level education offers programs in technical, vocational and academic preparation. The academic, or long program, leads to the baccalauréat and is intended only for those preparing for higher education. The program is offered by collèges d'enseignement secondaire or lycées. There are two cycles, the first, four years long, and results in the BEPC (brevet d'études du premier cycle). The second cycle is three years long, and the baccalauréat is awarded at the end of the third year, providing the student has earned the certificat de probation in the next to the last year. The certificat entitles the student to complete the final year and sit for the baccalauréat examination.

Technical and vocational subjects are taught in the short secondary program (enseignement secondaire court). The short program is also divided into two parts. The first cycle is similar to the long program in that it is also four years long and leads to the BEPC. The second cycle of the short program may last from one to three years, depending upon the institution and area of study. Various secondary level ecoles offer training in a specialized area leading to employment. For example, the Ecole nationale d'agriculture (National School of Agriculture) trains agricultural assistant engineers in a three-year program, resulting in the diplôme d'ingénieur adjoint agricole (agricultural assistant engineer diploma). Similar three-year programs in midwifery and nursing are offered by separate institutions.

Another set of institutions, or centres, offer training leading to employment at the lower cycle level. These programs are three years long and lead to the certificat d'aptitude professionnelle (certificate of professional aptitude). Examples of these institutions are the Centre d'apprentissage agricole (Center of Agricultural Apprenticeship) and the Centre d'apprentissage technique (Technical Apprenticeship Center).

Higher Education

Higher education in Togo is offered by the University of Benin, established in 1970. The university is made up of ten schools and institutes, nine of which were opened since 1970. The university offers instruction in letters (the oldest school), sciences, medicine, medical assistance, technology and health, administration and law, economics and management, education, agronomy and industrial mechanics. Students must possess the baccalauréat to enter the university, with two exceptions. The Ecole supérieure de mécanique industrielle administers an entrance examination, and the Ecole supérieure d'agronomie may admit those who have completed the final year of the long secondary program but who did not obtain the baccalauréat.

The degree programs reflect the French system. Basically, a diplôme is awarded after two years of study and a licence after three. Programs and degrees earned may differ from school to school. The Ecole supérieure d'agronomie trains agricultural engineers in a three-year program.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Togo."

AGRICULTURAL EDUCATION INSTITUTIONS IN TOGO

Directeur
Ecole Supérieure d'Agronomie
Université du Bénin
B. P. 1515
Lomé
Togo
West Africa

Directeur
Ecole National d'Agriculture de Tové
par Palime
Tové (Klonto)
Togo
West Africa

GENERAL INFORMATION:

Name: Ecole Supérieur d'Agronomie

Mailing Address: Université du Bénin
B. P. 1515
Lomé
Togo

University Established in 1970

Faculty Established in 1972

Source of Financial Support:
Ministère de l'Education Nationale

Send inquiries to: Directeur

Language(s) of Instruction:
Français

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
Ingenieur Agronomie

(a) Academic Degree programs **Oui**

(b) Educational Exchange programs **Oui**

Minimum Entrance Requirements
for First Degree program:

The Academic Year begins in **Septembre**

Baccaloréat Série D, C.

and ends in **Juin**

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	<u>148</u>	<u>3</u>	<u>151</u>
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	<u>143</u>	<u>3</u>	<u>151</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.Agr.	Doct.
Agric.Science		15	
Total No. Graduates		15	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	_____	_____
Ingenieur Agronome	<u>8</u>	<u>10</u>
M. Sc. Degree or Equivalent	_____	<u>7</u>
Doctoral Degree	<u>11</u>	<u>8</u>
Total Number	<u>19</u>	<u>25</u>

Academic Departments

Phytothénie

Genie Rural

Production Animale

Economie et Sociologie Rurales

REPUBLIC OF TUNISIA

The educational system in Tunisia is universal, free and compulsory. Based on the French system, students advance on merit, working their way up through the system of examination. Instruction is given in both Arabic and French reflecting the inclusion of both traditional and modern elements in the schools. Students attend school between nine and thirteen years, depending upon the area of study chosen or that for which they qualify. There are strong educational attachments to France with many French nationals teaching at all levels, especially in higher education. The University of Tunis provides higher education in many fields of study, although many students elect to study in France.

Elementary Education

Children are enrolled in the compulsory six-year primary program at the age of six. A competitive examination, the concours d'entrés, is administered at the end of the sixth year to determine the next step in their educational career.¹

Secondary Education

Secondary level education lasts from between four to seven years, depending upon the program a student follows. The vocational program is four years in length, three years of which are spent in specialized study in such areas as carpentry, plumbing, dressmaking, auto mechanics and bookbinding.² Students completing this program are awarded the brevet de l'enseignement secondaire professionnel. A second program is called the long secondary program. It is seven years in length, consisting of two portions, a three-year, general first cycle and a four-year, more specialized second cycle. Students successfully completing the second cycle are given the baccalauréat. Those specializing in a six-year course in the technical-industrial portion may earn a diplôme de technicien.

Higher Education

The University of Tunis is the primary institution of higher education in Tunisia. Admission to the university is gained by possession of a baccalauréat and, in many fields of study, taking part in a competitive examination. Education is free and open to all who qualify. The university is based on the French university system with the first two-year cycle earning the student a DUEL (diplôme universitaire d'études littéraires) and the final two-year cycle leading to the maîtrise. Advanced degrees up to and including the doctorate level can also be earned. Students may study in various areas of letters and human sciences, mathematical, physical and natural science, law, economics and political science, theology, medicine and pharmacy.

In addition to the university study, there are several schools and institutes offering training in journalism, administration, agriculture, modern languages, management, art and architecture and engineering. Most are attached to the University of Tunis, but others are administered by government ministries. The educational program maintained by the Ministry of Agriculture is an example of the specialized institutes. Veterinary medicine is taught at the National School of Veterinary Medicine in Mejjéz al-Bāb, while agronomy is offered at the National Institute of Agronomy of Tunis in Tunis. Additional programs are offered at the Center of Mejjéz al-Bāb for Rural Development and Machines; the Center of Mateur for Animal Husbandry; the Center of Tabarca for Forestry and Pasturage; and the Center of Chott Meriem for Irrigated Cultivation.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Tunisia."

²U.S. Department of Health, Education, and Welfare, Office of Education. "The Educational System of Tunisia," 1974.

AGRICULTURAL EDUCATION INSTITUTIONS IN TUNISIA

Directeur
 Ecole Supérieure des Ingénieurs de
 l'Équipement Rural
 Mejez El Bab
 Tunisia
 North Africa

Directeur
 Lycée Agricole de Moghrane
 B.P. 1121
 Moghrane, Zaghouan
 Tunisia
 North Africa

Directeur
 Ecole Nationale de Vétérinaire
 Mejez El Bab
 Tunisia
 North Africa

Directeur
 Lycée Agricoles de Jeunes
 Filles de La Soukra
 Soukra, Tunis
 Tunisia
 North Africa

Directeur
 Institut Nationale Agronomique de Tunis
 43 Avenue Charles Nicolle
 Tunis
 Tunisia
 North Africa

Directeur
 Ecole Supérieure d'Horticulture
 Ghatt Mariem
 Sousse
 Tunisia
 North Africa

Directeur
 Lycée Agricole de Bon-Cherif
 Grumbalia
 Tunisia
 North Africa

Directeur
 Institut de Sylviculture
 de Tabarka
 Tabarka
 Tunisia
 North Africa

Directeur
 Ecole des Pêches
 Kelibia
 Tunisia
 North Africa

Directeur
 Lycée Agricole de Thibar
 Thibar, Beja
 Tunisia
 North Africa

Directeur
 Ecole Supérieure des Grandes Cultures
 Le Kef
 Tunisia
 North Africa

Directeur
 Ecole Supérieure d'Économie et de
 Promotion Rurale de Moghrane
 1121 El Migren
 Zaghouan
 Tunisia
 North Africa

Directeur
 Ecole Supérieure d'Élevage
 Mateur
 Tunisia
 North Africa

Directeur
 Institut de Pastoralisme
 Medenine
 Tunisia
 North Africa

GENERAL INFORMATION:

Name: Institut National Agronomique de Tunis
 Mailing Address: 43 N. Avenue Charles Nicolle
 Tunis
 Tunisia

University Established in 1898

Faculty Established in 19

Source of Financial Support:

Ministere de L'Agriculture

Send inquiries to: Directeur de L'I.N.A.T.

Language(s) of Instruction:
 Francais

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:

(a) Academic Degree programs Yes

Diplome d'Ingenieur de L.I.N.A.T. (4 ANS)

(b) Educational Exchange programs Yes

Diplome de Specialité (6 ANS)

The Academic Year begins in Octobre

Minimum Entrance Requirements
 for First Degree program:

and ends in Juillet

Baccalureat Maths, Sciences

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students			
Ingenieur Agronome Students	285	38	323
Advanced Degree Students	21	7	28
Total Number of Full-time Students	306	45	351

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.Agr.	Doct.
Agricultural Sciences		17	
Mecanisation et Genie Agricole		17	
Pêche		10	
Autres (3 ème Cycle) Spécialisé		15	
Total No. Graduates		59	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome	5	20
M. Sc. Degree or Equivalent	36	21
Doctoral Degree	23	19
Total Number	64	60

Academic Departments

Agronomie
 Botanique
 Chimie
 Genie Rural
 Industries Agricoles
 Langues Vivantes
 Mathematiques
 Oceanographie
 Phisique
 Sciences Biologiques
 Sciences Economiques
 Sciences Horticoles
 Sciences du sol
 Zoologie
 Zootechnie

GENERAL INFORMATION:

Name: Ecole Superieure des Ingenieurs
de L'Equipment Rural

Mailing Address: Medjez
El Bab
Tunisia

Send in-
quiries to: Ingenieur EnChef (Directeur)

Institution accepts Foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs

The Academic Year begins in 15 Septembre

and ends in 15 Juillet

University Established in 19 64

Faculty Established in 19

Source of Financial Support:
Ministere de l'Agriculture

Language(s) of Instruction:
Francais

Degrees and Qualifications Awarded:
Diplôme d'Ingenieur des Travaux

Minimum Entrance Requirements
for First Degree program:

Baccalaureat - DUES

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
Ingenieur Adjoint Students	<u>75</u>	<u>2</u>	<u>77</u>
Ingenieur Agronome Students	<u>91</u>	<u>1</u>	<u>92</u>
Advanced Degree Students	<u> </u>	<u> </u>	<u> </u>
Total Number of Full-time Students	<u>166</u>	<u>3</u>	<u>169</u>

Number of 1979 Graduates by
Curricula and Academic Level:
Ing Curricula Adjoint Ing. des Travaux

Mechanisation et Genie Agricole	71	20	
Total No. Graduates			

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

<u>Level of Education</u>	<u>Full-time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	<u>4</u>	<u> </u>
Ingenieur Agronome	<u>12</u>	<u>5</u>
M. Sc. Degree or Equivalent	<u>3</u>	<u>22</u>
Doctoral Degree	<u>2</u>	<u>3</u>
Total Number	<u>21</u>	<u>30</u>

Academic Departments
Machinisme Agricole
L'Equipment Rural

GENERAL INFORMATION:

Name: Ecole Superieur D'Horticulture
 Mailing Address: Chott-Mariem
 Sousse
 Tunisia

University Established in 19

Faculty Established in 19 70

Source of Financial Support:
 Ministère de l'Agriculture

Send in-
 quiries to: Le Directeur

Language(s) of Instruction:
 Francais

Institution accepts Foreign students for:

- (a) Academic Degree programs
 - (b) Educational Exchange programs
- The Academic Year begins in
 and ends in

Degrees and Qualifications Awarded:
 Diplôme d'Ingenieur Horticole et de
 Technicien Superieur Horticole
 Minimum Entrance Requirements
 for First Degree program:
 13 years (Baccalaureat Secondaire)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
Tech. Superieur Students	49	10	59
Ingenieur Agronome Students	86	6	92
Advanced Degree Students			
Total Number of Full-time Students	135	16	151

Number of 1979 Graduates by
 Curricula and Academic Level:
 Diploma

	Tech	Ingen	
Horticulture	47	*	
Total No. Graduates			

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
 Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	3	
Ingenieur Agronome	18	
M. Sc. Degree or Equivalent		
Doctoral Degree		
Total Number	21	

Academic Departments

Horticulture

* First Graduates in 1981

GENERAL INFORMATION:

Name: Lycée Agricole de Thibar

Mailing Address: Thibar, Beja
Tunisia

Send inquiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>144</u>
STUDENT	Female	<u> </u>
ENROLLMENT:	Total	<u>144</u>

Minimum years of education required for entrance: Enseignement secondaire General

Qualifications awarded: Diplôme

Graduates by Curricula in 1978:		
Agricultural Education	<u>30</u>	
Fisheries	<u>31</u>	
TOTAL	<u>61</u>	

GENERAL INFORMATION:

Name: Ecole des Peches

Mailing Address: Kelibia
Tunisia

Send inquiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>110</u>
STUDENT	Female	<u>-</u>
ENROLLMENT:	Total	<u>110</u>

Minimum years of education required for entrance: 9 years

Qualifications awarded: Diplôme

Graduates by Curricula in 1978:		
Fisheries	<u>50</u>	
TOTAL	<u>50</u>	

Year established:

Source(s) of Support: Ministère de L'Agriculture & Exploitation

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>6</u>	<u>1</u>	<u>1</u>	<u>8</u>
Teaching	<u>7</u>	<u>7</u>	<u>1</u>	<u>15</u>
Technical	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Total	<u>13</u>	<u>8</u>	<u>2</u>	<u>23</u>

Language(s) of instruction: French and Arabic

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>25</u>
Teaching in Schools.....	<u>5</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u>15</u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u>15</u>
Entered nonagricultural employment.....	<u>5</u>
Continue their education.....	<u>30</u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

Year established: 1966

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>10</u>	<u> </u>	<u>1</u>	<u>11</u>
Teaching	<u>14</u>	<u> </u>	<u> </u>	<u>14</u>
Technical	<u>2</u>	<u> </u>	<u> </u>	<u>2</u>
Total	<u>26</u>	<u> </u>	<u>1</u>	<u>27</u>

Language(s) of instruction: Arabic and English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>10</u>
Teaching in Schools.....	<u>10</u>
Technical staff at an educational or research institution.....	<u>10</u>
Agric. development bank, cooperative, etc.	<u>15</u>
Agri-business firms.....	<u>40</u>
Farming or farm management.....	<u>15</u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: _____	<u>100%</u>

GENERAL INFORMATION:

Name: Lycee Agricoles de Jeunes Filles de La Soukra
 Mailing Address: Soukra Tunisia

Send inquiries to: Principal

Year established: 1965
 Source(s) of Support: Ministry of Agriculture & Vente Des Products Du Domaine

STAFFING	<B.S	B.S	>B.S	Total
Administrative	2			2
Teaching		3	7	10
Technical			2	2
Total	2	3	9	14

Language(s) of instruction: Arabic and French
 Duration of courses: 3 years

STUDENTS AND CURRICULA:

1978/79	Male	Female	Total
STUDENT ENROLLMENT:		116	116

Minimum years of education required for entrance: 10 years

Qualifications awarded: Diplome D'Adjoint Technique

Graduates by Curricula in 1978:	
General Agriculture	38
TOTAL	38

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	15
Teaching in Schools.....	2
Technical staff at an educational or research institution.....	10
Agric.development bank cooperative,etc.	2
Agri-business firms.....	5
Farming or farm management.....	21
Entered nonagricultural employment.....	2
Continue their education.....	40
Unemployed.....	3
Other:	
	100%

GENERAL INFORMATION:

Name: Ecole Superieure d'Economie et de Promotion rurale de Moghrane
 Mailing Address: Moghrane, Zaghouan Tunisia

Send inquiries to: Directeur

Year established: 1950
 Source(s) of Support: Ministère de l'Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative			2	2
Teaching	3	6	4	13
Technical				
Total	3	6	6	15

Language(s) of instruction: Arabic, French
 Duration of courses: 2 years

STUDENTS AND CURRICULA:

1978/79	Male	Female	Total
STUDENT ENROLLMENT:	102	24	126

Minimum years of education required for entrance: 13 years

Qualifications awarded: Diplôme de Technicien, Supérieur Spécialisé

Graduates by Curricula in 1978:	
Agr. Statistics	8
Agri-Business	14
Rural Development	23
Agr. Compatibilite	19
TOTAL	64

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	35
Teaching in Schools.....	2
Technical staff at an educational or research institution.....	
Agric.development bank,cooperative,etc.	10
Agri-business firms.....	
Farming or farm management.....	25
Entered nonagricultural employment.....	10
Continue their education.....	2
Unemployed.....	6
Other:	
	100%

GENERAL INFORMATION:

Name: Lycée Agricole de Moghrane

Mailing

Address: Moghrane, Zaghouan
Tunisia

Send in-

quiries to: Directeur

STUDENTS AND CURRICULA:

1978/79	Male	<u>124</u>
STUDENT	Female	<u>18</u>
ENROLLMENT:	Total	<u>142</u>

Minimum years of education required for entrance: 12 years

Qualifications awarded: Diplôme de Fin Techniques Agricole

Graduates by Curricula in 1978.

	<u>117</u>
	<u>-</u>
	<u>-</u>
	<u>-</u>
TOTAL	<u>117</u>

Year established: 1950

Source(s) of Support: Ministère de l'Agriculture and Produits du domaine et Pension

STAFFING	B.S	B.S	B.S	Total
Administrative	<u>11</u>	<u>-</u>	<u>-</u>	<u>11</u>
Teaching	<u>5</u>	<u>3</u>	<u>2</u>	<u>10</u>
Technical	<u>1</u>	<u>-</u>	<u>-</u>	<u>1</u>
Total	<u>17</u>	<u>3</u>	<u>2</u>	<u>22</u>

Language(s) of instruction: Francaise

Duration of courses: 9 to 12 months

EMPLOYMENT OF GRADUATES:

Percent

Government Extension Service.....	<u>20</u>
Teaching in Schools.....	<u>-</u>
Technical staff at an educational or research institution.....	<u>-</u>
Agric. development bank, cooperative, etc.	<u>-</u>
Agri-business firms.....	<u>-</u>
Farming or farm management.....	<u>-</u>
Entered nonagricultural employment.....	<u>-</u>
Continue their education.....	<u>70</u>
Unemployed.....	<u>10</u>
Other:	<u>100%</u>

Preface

Before the takeover of General Idi Amin, Uganda possessed a good system of education based on the British model. Under his regime, however, the system deteriorated badly. Educational standards were impossible to maintain as there was a severe shortage of teaching staff. Foreign nationals left the country, among them teachers who had taught mathematics, science and technical subjects. Many Ugandan teachers also were compelled to leave. In addition, the physical plant of the school system was heavily damaged by unrest and war. Teaching materials and money were in short supply, and there was widespread looting and destruction.¹ Although structures were often left standing, the physical tools for instruction such as desks, chairs and office equipment were stolen or destroyed.

The expulsion of General Idi Amin has enabled remaining and returning Ugandan educators to undertake the gargantuan task of rebuilding the educational system. The Minister of Education, Geraldine Bitamazire, formed a Rehabilitation Committee to tackle the problem. The priorities identified by the committee were: to replace lost or destroyed school materials; to furnish the school with materials which should have been provided in the first place; and to reconstruct and repair damaged or destroyed physical plants. Shortages of materials and food are making the task difficult, at best. For example, the opening of boarding schools, colleges and Makerere University was delayed in January, 1980, because of a food shortage, interrupting the education of 350,000 students.² The schools opened eventually and the students completed the year's work. Some outside assistance is being offered by the Canadian government, through the Canadian university association and the Canadian International Development Agency which have provided financial aid to the Makerere University for hiring new scholars and refurbishing facilities. The work of rebuilding is formidable, however, and it will be many years before the former status of the system is regained.

The description given below reflects the educational system during the mid-1979's. It appears that the emerging structure will remain essentially the same as the previous one, as further development of educational practice must wait until the physical problems have been solved. Whether the Islamic influence injected into the school system by General Idi Amin will continue remains to be seen.

Elementary Education

Education is neither free nor compulsory in Uganda, although government assistance and parental participation make it possible for primary education to be widespread. The primary program lasts seven years and ends with a primary school leaving examination. A student must pass the examination to be admitted to secondary level study. Instruction is given in English and children enter school at six years of age.

Secondary Education

The secondary level course is six years long. After four years the students are examined to earn the Secondary Leaving Certificate. Only those who pass with a high mark may continue for another two years in a Higher Secondary School to obtain the East African Certificate of Education (EACE). As there are fewer openings in higher education, the examination is very competitive. Technical and farm programs are also offered at the secondary level.

Higher Education

A number of institutions provide higher education in Uganda. Degree courses are offered at the Makerere University in Kampala in the areas of agriculture and forestry, the arts, education, law, medicine, science, social science, technology, veterinary medicine and librarianship.³ Those interested in agricultural training enroll in the University. Degrees may be earned at all levels: a bachelor's degree in a three-year program; a master's in a two- or three-year program; and a doctorate. Diplomas and certificates are also available

in some areas of study. A student must have an EACE at an appropriate level to gain admission to the University. Provisions are made to admit those who qualify for mature entry status. The EACE also fulfills entrance requirements for many other institutions of higher learning.

Students may also attend the National Teachers College at Kyambogo to prepare for secondary teaching; the Institute of Education at Makerere to become primary teachers; Uganda Technical College at Kyambogo to study technical subjects; and the Uganda College of Commerce at Nakawa to prepare for careers in commerce, business and hotel management. The Centre for Continuing Education at Makerere is open to all adults.

¹Elizabeth Okwenje. "Geraldine Bitamazire: To Serve, To Educate", in Africa Woman, No. 28, July/August 1980, p. 15.

²Africa Research Bulletin, Political, Social and Cultural Series. May 1-30, 1980, vol. 17, No. 5, June 16, 1980, p. 5563. Published by Africa Research Ltd., Exeter, England.

³International Encyclopedia of Higher Education, 1977 ed., s.v., "Uganda, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN UGANDA

Dean
Faculty of Agriculture and Forestry
Makerere University
P.O. Box 7062
Kampala
Uganda
East Africa

Principal
Bukalasa Agricultural College
P. O. Box 97
Bombo
Uganda
East Africa

Dean
Faculty of Veterinary Medicine
Makerere University
P.O. Box 7062
Kampala
Uganda
East Africa

Principal
Veterinary Training Institute
P. O. Box 112
Entebbe
Uganda
East Africa

Principal
Nyabyeya Forestry School
P. O. (Private Bag)
Masindi
Uganda
East Africa

Principal
Arapai Agricultural College
P. O. Box 203
Soroti, Teso
Uganda
East Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture & Forestry
 Makerere University
 Mailing Address: P. O. Box 7062
 Kampala
 Uganda

University Established in 19 22

Faculty Established in 19 22

Source of Financial Support:
 Ministry of Education (Uganda Govt.)

Send in-
 quiries to: Dean

Language(s) of Instruction:

English

Institution accepts Foreign students for:

Degrees and Qualifications Awarded:
 B.Sc., M.Sc., D.Sc., Ph.D.

- (a) Academic Degree programs Yes
 (b) Educational Exchange programs Yes

Minimum Entrance Requirements
 for First Degree program:

The Academic Year begins in July
 and ends in March

Higher School Certificate (A-level)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	294	53	347
Ingenieur Agronome Students			
Advanced Degree Students	31	5	36
Total Number of Full-time Students	325	58	383

Number of 1979 Graduates by
 Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agric.Sciences	17	4	
Animal Science Husbandry	27	3	1
Forestry	25		
Agricultural Economics and Rural Sociology, Extension Educ.	15	1	
Total No. Graduates	93	84	8

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
 Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent	-	-
Ingenieur Agronome	-	-
M. Sc. Degree or Equivalent	8	6
Doctoral Degree	27	4
Total Number	35	10

Academic Departments

- Agricultural Economics
- Agricultural Engineering
- Animal Science
- Forestry
- Soil Science

GENERAL INFORMATION:

Name: Faculty of Veterinary Medicine
Makerere University

Mailing Address: P. O. Box 7062
Kampala
Uganda

Send in- Dean of Faculty of
quiries to: Veterinary Medicine

Institution accepts Foreign students for:

- (a) Academic Degree programs yes
(b) Educational Exchange programs yes
The Academic Year begins in July
and ends in May

University Established in 19 23

Faculty Established in 19 71

Source of Financial Support:
Ministry of Education

Language(s) of Instruction:
English

Degrees and Qualifications Awarded:
B.V.M., M.Sc., Ph.D., D.Sc.

Minimum Entrance Requirements
for First Degree program:

Advanced level passes in Biology Chemistry
and Physics (EAACE)

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	136	21	157
Ingenieur Agronome Students			
Advanced Degree Students	3	-	3
Total Number of Full-time Students	139	21	160

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Veterinary Medicine	36	2	
Total No. Graduates	38	36	2

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome		
M. Sc. Degree or Equivalent	12	
Doctoral Degree	10	
Total Number (Present)	22	+ 20 vacancies

Academic Departments
Veterinary Anatomy
Biochemistry & Pharmacology
Veterinary Pathobiology
Veterinary Clinical Studies

REPUBLIC OF UPPER VOLTA

The educational system of Upper Volta is based on the French model and consists of a six-year primary program, a seven-year secondary program and opportunity for higher education. Since gaining independence in 1960, increased educational opportunities have been an important goal of the government. In spite of the éducation rurale program initiated in 1961, which is designed to provide three years of education to all rural youth, and the expenditure of about twenty percent of the annual national budget on education, only eleven percent of students eligible for primary school may attend.¹ Even fewer are enrolled at the secondary level. Drought and financial problems have held back progress in this area.

Elementary Education

Primary education lasts six years and leads to the secondary program. Students completing the program earn the CEP (certificat d'études primaires). Instruction is given in French, as is true on all levels. Students may attend public or private schools for primary and secondary instruction. Private facilities are subsidized by the government.

Secondary Education

Secondary education consists of two cycles, the first, or lower cycle is four years in length and the second, or upper cycle is three years in length. Secondary students attend collèges d'enseignement général, lycées or écoles normales to receive their training. At the end of four years, students are examined for the BEPC (brevet d'études du premier cycle). The second cycle ends in the baccalauréat, awarded in philosophy, mathematics or science.

Higher Education

Students may attend one of three higher education institutions, the Centre voltaïque de recherche scientifique (Volta Center for Scientific Research); the Instut pédagogique national (National Institute of Pedagogy); and the Ecole nationale d'administration (National School of Administration) where study is offered in the fields of scientific and technical education (including engineering, natural resources, agronomy and animal husbandry); humanities and education; and higher administration and business study, respectively. Like the lower level educational systems, higher education closely follows the French university and école pattern. Although various programs offer different diplomas and degrees, the basic system of awarding a diplôme after two years of study, a licence after three and a maîtrise after the fourth year is maintained.

Higher level agricultural study is offered in the institute of agriculture, part of the university system. A four-year program leads to the diplôme ingénieur travaux. The diplôme ingénieur conception is awarded after another year of study.

¹ International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Upper Volta."

AGRICULTURAL EDUCATION INSTITUTIONS IN UPPER VOLTA

Directeur
Ecole Inter-Etats d'Ingenieurs de
l'Equipment Rural
B.P. 7023
Ouagadougou
Upper Volta
West Africa

Doyen
Institut Superieur Polytechnique
P.B. 7021
Ouagadougou
Upper Volta
West Africa

Directeur
Centre Agricole Polyvalent de Matourkou
B. P. 130
Bobo-Dioulasso
Upper Volta
West Africa

Directeur
Ecole de Saria
Ouagadougou
Upper Volta
West Africa

Directeur
Ecole des Infirmiers Veterinaires
B. P. 396
Ouagadougou
Upper Volta
West Africa

Directeur
Ecole des Eaux et Forests
Dinderesso
Via Bobo-Dioulasso
Upper Volta
West Africa

GENERAL INFORMATION:

Name: Institut Supérieur Polytechnique

Mailing Address: B.P. 7021 Ouagadougou

Address: Upper Volta

I.S.P. Established in 1973

Source of Financial Support:

Ministère de l'enseignement supérieur et de la Recherche Scientifique

Language(s) of Instruction:

Français

Send inquiries to: Maître Assistant

Institution accepts foreign students for:

(a) Academic Degree programs Yes

(b) Educational Exchange programs Yes

The Academic Year begins in Octobre

and ends in Juin

Degrees and Qualifications Awarded:

Maître de Sciences et Techniques;
Diplôme d'Ingénieur du Développement Rural;
Minimum Entrance Requirements Diplôme d'ingénieur des techniques du Développement Rural.

Baccalauréat C.D.E. or titre étranger reconnu équivalent

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	18	2	20
Ingenieur Agronome Students	17	3	20
Advanced Degree Students			
Total Number of Full-time Students	35	5	40

Number of 1979 Graduates by Curricula and Academic Level:

Curricula B.Sc. Ing.Agr. Maitrise

Curricula	B.Sc.	Ing.Agr.	Maitrise
Science Agricole	12	12	25
Total No. Graduates	12	12	25

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome	9	14
M. Sc. Degree or Equivalent		
Doctoral Degree	16	
Total Number	25	14

Academic Departments

Sciences Exactes et Naturelles

Chimie

Elevage

Agronomie

Eaux et Forêt

REPUBLIC OF ZAIRE

The educational system of Zaire has experienced complete reform since gaining independence from Belgium in 1960. The present system is based on an extensive primary school system operated by Catholic and Protestant missionaries, and two universities which were established in the pre-independence period. Since 1960, the government has moved toward secularization of educational institutions, increasing school attendance and reworking educational programs to emphasize technical training to fill employment needs. Teacher training programs are also given high priority. A student may participate in a six-year primary program, a secondary program from four to six years long and, upon qualifying, a program of higher education at the National University of Zaire. Instruction at all levels is given in French.

Elementary Education

The primary program is six years in length and prepares the student for secondary level work.

Secondary Education

Those students who complete the primary program in a satisfactory manner may advance to the secondary level. The secondary program is divided into two parts, a lower, two-year portion and an upper, two to four-year segment, depending upon the area of study chosen. The first two years are considered an orientation to secondary education and result in a brevet or leaving certificate. A decision is also made at this point as to whether a student should pursue a short program leading to specialized employment or the long program, leading to eligibility for higher education.

The short program is two to three years long and prepares individuals to work as skilled workers, primary school teachers and support personnel in commerce and government. A certificate is awarded at the completion of the program. The long program lasts four years and earns the student a diplôme d'état or state diploma. A student may follow a general, i.e., traditional, academic program of science or literature or elect to specialize, choosing from a wide range of programs including teacher training, agriculture, commerce, art, industry or administration. Efforts are being made to upgrade the quality of secondary programs by limiting enrollment at this level and instituting stricter admission standards.

Higher Education

The National University of Zaire provides higher level education in many areas of study. The National University was constituted in 1971, by combining the University of Lovanium, the Official University of the Congo and the Free University of the Congo as well as the twenty-five higher institutes which were created during the post-independence period, through the assistance of the United Nations, to train needed personnel. A student must possess the diplôme d'état to be admitted to the university. After two or three years of study a student is awarded the graduat, and after four years the licence. Some fields such as in law and engineering require five years. Doctoral level study may also be pursued.¹

Students may choose among a wide variety of subjects to study at the university level. For example, the Kinshasa campus offers law, science, medicine and commerce, as well as housing institutes specializing in African law, African religion and nuclear science. Science, letters, administration, veterinary medicine and engineering are taught at the Lubumbashi campus, as well as soils, linguistics and African literature. While agriculture, biology, medicine, education and psychology degree programs may be pursued at the Kisangani facility, agricultural programs are offered in the higher institutes in Bengamisa and Mondongo (Lisala), as well as in the program at Kisangani noted above. A student may enter a five-year program to become an ingénieur agronome (agricultural engineer). Lower level agricultural training is offered in the secondary program.

¹International Encyclopedia of Higher Education, 1977 ed., s.v. "Republic of Zaire."

AGRICULTURAL EDUCATION INSTITUTIONS IN ZAIRE

Directeur
Institut Supérieur d'Etudes
Agronomique de Mondongo
B.P. 22
Lisala
Équateur
Zaire
Central Africa

Directeur
Direction de l'Enseignement
Technique et Professionnelle
B. P. 32
Kinshasa
Congo
Zaire
Central Africa

Directeur
Institut Facultaire des Sciences Agronomiques
Université Nationale Du Zaire
B.P. 28
Yangambi
Haut-Zaire
Zaire
Central Africa

Doyen
Faculté de Médecine Vétérinaire
Université Nationale du Zaire
B. P. 1825
Lubumbashi
Shaba
Zaire
Central Africa

Directeur
Institut Supérieur d'Etudes
Agronomiques de Bengamisa
B.P. 531
Kisangani
Haut-Zaire
Zaire
Central Africa

GENERAL INFORMATION:

Name: Institut Facultaire des Sciences
Agronomique
Mailing Address: B. P. 28
Yangambi Haut-Zaire
Zaire

University Established in 19 73

Faculty Established in 19 54

Send in-
quiries to: Directeur General

Source of Financial Support:
Department de l'Enseignement Superieur
et de la Recherche Scientifique
Language(s) of Instruction:

Institution accepts Foreign students for:

(a) Academic Degree programs **yes**

(b) Educational Exchange programs **no**

The Academic Year begins in 15 Octobre

and ends in 31 Juillet

Degrees and Qualifications Awarded: Graduat
(1) en Sciences Agronomiques (2) Ingenieur
Agronome (3) Doctorat en Sciences Agron-
omiques
Minimum Entrance Requirements
for First Degree program:
Diploma d'etat reussi anec au mains 60%
des points

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	_____	_____	_____
Ingenieur Agronome Students	<u>410</u>	<u>10</u>	<u>420</u>
Advanced Degree Students	<u>13</u>	_____	<u>13</u>
Total Number of Full-time Students	<u>423</u>	<u>10</u>	<u>433</u>

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	Ing.	Agr.	Doct.
Sciences Agricoles			71	
Total No. Graduates				71

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	<u>Full-time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. Degree or Equivalent	<u>1</u>	<u>5</u>
Ingenieur Agronome	<u>13</u>	<u>1</u>
M. Sc. Degree or Equivalent	<u>-</u>	<u>2</u>
Doctoral Degree	<u>11</u>	<u>9</u>
Total Number	<u>25</u>	<u>17</u>

Academic Departments

- 1) Department de Phytotechnique
- 2) Department de Zootechnique
- 3) Department de Economic Rurale
- 4) Department de Pedologie *
Chimie, Industries Agricoles

* Department a Diviser en 2 Departments in 1980 - 1981

GENERAL INFORMATION:

Name: **Faculté de Médecine Vétérinaire**
Université National du Zaïre

Mailing Address: **B. P. 1825**
Campus de Lubumbashi/Zaïre
Lubumbashi, Shaba
Zaïre

Send in-quiries to:

Institution accepts Foreign students for:

- (a) Academic Degree programs **Yes**
- (b) Educational Exchange programs **Yes**

The Academic Year begins in **octobre (chaque année)**
 and ends in **juillet**

University Established in 19 54

Faculty Established in 1968

Source of Financial Support:
Ministère de l'Éducation
 (= Conseil Exécutif ou Gouvernement)

Language(s) of Instruction:
Français

Degrees and Qualifications Awarded:
Graduat Candidat en médecine Vétérinaire
Doctorat en médecine Vétérinaire + (Agrégé)
 Minimum Entrance Requirements Prof. en
 for First Degree program: **Enseign. Supérieur**

Avoir un diplôme d'Etat avec plus de 60%
 d'humanité vétérinaires, Agric. Scienti-
 fiques, Biologique et Mathe-Physique

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
Etudiants se dirigeant vers Graduat	255	11	266
Etudiants se Dirigeant vers Doctorat	317	11	328
Advanced Degree Students	5	0	5
Total Number of Full-time Students	577	22	599

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	Grad.	Doct.	Prof.
Medicine Veterinarie	69	27	1
Total No. Graduates	97	27	1

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by Level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome Assistants	24	6
M. Sc. Degree or Chefs Equivalent de Travaux	7	2
Doctoral Degree Professeurs	15	
Total Number	46	8

Academic Departments

Cette Faculté nécessite 6 ans d'étude
 3 ans pour les Graduates (Candidat)
 en médecine Veterinarie, et 3 ans pour
 les Doctorats

REPUBLIC OF ZAMBIA

The Zambian educational system is based on the British model containing a seven-year primary program, a five-year secondary program and post-secondary training which includes the University of Zambia at Lusaka and various technical and nursing schools. Since gaining its independence from Britain in 1964, the educational system has expanded rapidly.

Elementary Education

Participation in the seven-year primary program is not compulsory. Children begin school at the age of seven. At the end of the primary phase the student writes the Primary Leaving Certificate examination. At the present time, educational facilities exist to accommodate about seventy-five percent of the school-age children.

Secondary Education

Secondary education is divided into two phases, the three-year junior secondary school and the two-year senior secondary school. Students are examined at the end of each phase and are awarded the Junior Secondary Leaving Certificate at the end of the third year and the Cambridge Overseas School Certificate at the end of the fifth year. Not all students passing the examinations are allowed to enter the junior secondary school, while only half completing junior secondary school may continue on to the senior cycle. Secondary schooling may be completed through correspondence courses, however, resulting in the General Certificate of Education (GCE).

Higher Education

Only fifteen percent of the students completing secondary school are allowed to enter the University of Zambia. Possession of the General Certificate of Education (GCE) at ordinary level or the Cambridge Overseas School Certificate is required for entry. The bachelor's degree normally requires four years of study, although some courses such as law, medicine and engineering require more. Degrees may be earned in agricultural science, education, engineering, humanities and social sciences, law, medicine, mines and the natural sciences. Students may earn master's degrees in two years in education, mathematics, law, public administration and the social, physical and biological sciences. No doctoral programs are offered. Two-year diplomas and one-year certificates may also be earned. University level correspondence study is very popular in Zambia as it is possible for those who are unable to attend the University to obtain the same degree in some areas.

Other schools and institutes offer post-secondary, non-university education. Students study a wide range of subjects including teacher training, nursing, home economics, business, agriculture and nutrition, forestry and technical subjects such as electronics, industrial science, instrumentation, metallurgy, mine surveying and tele-communications.¹

¹The International Encyclopedia of Higher Education, 1977 ed. s.v. "Zambia, Republic of."

AGRICULTURAL EDUCATION INSTITUTIONS IN ZAMBIA

Dean
School of Agricultural Sciences
University of Zambia
P.O. Box 32379
Lusaka
Zambia
East Africa

Principal
Zambia Forest College
Private Bag Mwekera
Kitwe
Zambia
East Africa

Principal
Natural Resources Development College
P. O. Box 1989
Lusaka
Zambia
East Africa

Principal
Zambian Institute of Animal Health
P.O. Box 237
Mazabuka
Zambia
East Africa

Principal
Zambian College of Agriculture
P.O. Box 53
Monze
Zambia
East Africa

GENERAL INFORMATION:

Name: School of Agricultural Sciences
University of Zambia

Mailing
Address: P. O. Box 32379
Lusaka
Zambia

Send in-
quiries to: Dean

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
- (b) Educational Exchange programs

The Academic Year begins in September
and ends in July

University Established in 19 66

Faculty Established in 19 69

Source of Financial Support:
Government of the Republic of Zambia

Language(s) of Instruction:
English

Degrees and Qualifications Awarded:
B.Sc. (Ag.)

Minimum Entrance Requirements
for first Degree program:

G.C.E. 'O' Level

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	<u>Males</u>	<u>Females</u>	<u>Totals</u>
B.Sc. Degree Students	87	18	105
Ingenieur Agronome Students	_____	_____	_____
Advanced Degree Students	_____	_____	_____
Total Number of Full-time Students	87	18	105

Number of 1979 Graduates by
Curricula and Academic Level:

Curricula	B.Sc.	B.Sc.	D.Degree
Agricultural Sciences	12		
Total No. Graduates		12	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty
Members by level of Education:

<u>Level of Education</u>	<u>Full-time Faculty</u>	<u>Part-time Faculty</u>
B. Sc. degree or Equivalent	3	_____
Ingenieur Agronome	_____	_____
M. Sc. Degree or Equivalent	9	_____
Doctoral Degree	11	_____
Total Number	23	_____

Academic Departments

- Department of Animal Science
- Department of Agricultural Engineering
- Department of Crop Science
- Department Rural Economy and Extension Education
- Department of Soil Science

GENERAL INFORMATION:

Name: **Zambian Institute of Animal Health**

Mailing Address: **P. C. Box 237
Mazabuka
Zambia**

Send in-quiries to: **The Principal**

Year established: **-**

Source(s) of Support: **Ministry of Agriculture**

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>5</u>	<u> </u>	<u> </u>	<u>5</u>
Teaching	<u> </u>	<u>4</u>	<u> </u>	<u>4</u>
Technical	<u>12</u>	<u> </u>	<u> </u>	<u>12</u>
Total	<u>17</u>	<u>4</u>	<u> </u>	<u>21</u>

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	<u>280</u>
	Female	<u>-</u>
	Total	<u>280</u>

Minimum years of education required for entrance: **12 years**

Qualifications awarded: **Certificate**

Graduates by Curricula in 1978:

Animal Science, Husbandry	<u>40</u>
TSETSE Control Assistant	<u>40</u>
Laboratory Assistant (Vet)	<u>20</u>
In Service Courses (1 year)	<u>80</u>
Veterinary Science	<u>40</u>
TOTAL	<u>220</u>

Language(s) of instruction: **English**

Duration of courses: **9 - 12 months, 2 years**

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>75</u>
Teaching in Schools.....	<u>1</u>
Technical staff at an educational or research institution.....	<u>5</u>
Agric. development bank, cooperative, etc.	<u>1</u>
Agri-business firms.....	<u>5</u>
Farming or farm management.....	<u>10</u>
Entered nonagricultural employment.....	<u>2</u>
Continue their education.....	<u>1</u>
Unemployed.....	<u> </u>
Other: _____	<u> </u>
	<u>100%</u>

GENERAL INFORMATION:

Name: **Zambia College of Agriculture**

Mailing Address: **P. O. Box 53
Monze
Zambia**

Send in-quiries to: **The Principal**

Year established: **1947**

Source(s) of Support: **Ministry of Agriculture**

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>11</u>	<u>1</u>	<u> </u>	<u>12</u>
Teaching	<u>7</u>	<u>6</u>	<u>2</u>	<u>15</u>
Technical	<u>11</u>	<u> </u>	<u> </u>	<u>11</u>
Total	<u>29</u>	<u>7</u>	<u>2</u>	<u>38</u>

Language(s) of instruction: **English**

Duration of courses: **1 and 2 years**

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	<u>78</u>
Teaching in Schools.....	<u> </u>
Technical staff at an educational or research institution.....	<u>16</u>
Agric. development bank, cooperative, etc.	<u> </u>
Agri-business firms.....	<u> </u>
Farming or farm management.....	<u> </u>
Entered nonagricultural employment.....	<u> </u>
Continue their education.....	<u> </u>
Unemployed.....	<u> </u>
Other: National Defense	<u>6</u>
	<u>100%</u>

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	<u>197</u>
	Female	<u>26</u>
	Total	<u>223</u>

Minimum years of education required for entrance: **10 years**

Qualifications awarded: **Certificate in General Agriculture**

Graduates by Curricula in 1978:

General Agriculture - 1 year course	<u>33</u>
General Agriculture - 2 year course	<u>52</u>
TOTAL	<u>85</u>

GENERAL INFORMATION:

Name: Zambia Forest College
 Mailing Address: Private Bag Mwekera
 Kitwe
 Zambia
 Central Africa
 Send inquiries to: Principal

Year established: 1949
 Source(s) of Support: Ministry of Lands and National Resources (Forestry Dept.)

STAFFING	<B.S	B.S	>B.S	Total
Administrative	---	<u>1</u>	---	<u>1</u>
Teaching	---	<u>3</u>	---	<u>3</u>
Technical	<u>6</u>	---	---	<u>6</u>
Total	<u>6</u>	<u>4</u>	---	<u>10</u>

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	Female	Total
	<u>62</u>	<u>9</u>	<u>71</u>

Minimum years of education required for entrance: 12 years

Qualifications awarded: Diploma in Forestry
 National Certificate in Forestry

Graduates by Curricula in 1978:

Forestry	<u>36</u>
TOTAL	<u>36</u>

Language(s) of instruction: English
 Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:	Percent
Government Extension Service.....	<u>95</u>
Teaching in Schools.....	---
Technical staff at an educational or research institution....	---
Agric. development bank, cooperative, etc.	---
Agri-business firms.....	---
Farming or farm management.....	---
Entered nonagricultural employment.....	---
Continue their education.....	<u>5</u>
Unemployed.....	---
Other: _____	<u>100%</u>

ZIMBABWE

Prior to the formation of Zimbabwe two educational systems based on the British model existed to serve the segregated races of Rhodesia. Although the interim government of Bishop Abel Muzorewa merged the two systems through formation of a single Ministry of Education, little in fact changed until Independence on April 18th, 1980. Since April 1980, however, the two systems have been gradually unified as formerly all-European schools are restored to state control. The new government has made primary education free to all and intends to make it compulsory in the near future. This rapid expansion of the educational system has been impeded by a shortage of facilities and teachers.

Primary Education

Presently primary education in Zimbabwe consists of 7 grades. At the end of 7th grade students sit the Grade 7 examination for promotion to secondary school. The medium of instruction throughout the Zimbabwean educational system is English. The curriculum at primary level is composed of English, math, general science, social studies, religious knowledge, local languages and vocational subjects such as agriculture and crafts.

Secondary Education

Secondary education in Zimbabwe is acquired in several stages. The first phase, Forms I - III, lasts three years, after which students sit the lower National Certificate of Education Examination (NCE). Those who are most successful then pursue an academic course in Form IV terminating in the General Certificate of Education Ordinary Level Examination (GCE 'O' level). Those who are less successful in the lower NCE sit the upper NCE at the end of Form V or leave school to find employment or apprenticeships in the labor force. Admission to secondary level agricultural, vocational or housecraft schools is gained after completion of the lower NCE.

After 'O' Level Exams, students pursuing an academic secondary course proceed to Form VI, a two year upper secondary school. Here they study at least three subjects in preparation for the GCE Advanced Level Examination ('A' Level) taken at the end of the second year. Admission to the University is based on presentation of a specified number of passes in the GCE 'O' and 'A' Level exams.

Higher Education

Higher education in Zimbabwe is offered at the University of Zimbabwe, at 2 polytechnics and several colleges. The University consists of seven faculties: Agriculture, Arts, Education, Engineering, Medicine, Science and Social Science. The first degree awarded is the Bachelor's degree requiring 3 years of study in all fields except engineering and medicine which require 4 and 5 years respectively. Highly qualified students may obtain an Honors B.A. either by additional work during their three year program or by an additional year of study. Master's degrees and Ph.D. degrees are also awarded.

Technical and vocational education is available at the Bulwayo and Salisbury Polytechnics. The Polytechnics offer diploma courses in fields such as engineering or mechanics, generally lasting two years. Admission to the polytechnics is open to students from various levels of secondary school. Several agricultural colleges offer 3 year, post 'O' level diploma courses. Teacher training centers require the GCE 'O' level for admission to train primary school teachers. Teachers for secondary school are trained in the university or in a teacher training college.

AGRICULTURAL EDUCATION INSTITUTIONS IN ZIMBABWE

Dean
Faculty of Agriculture
University of Zimbabwe
P.O. Box M.P. 167
Mount Pleasant,
Salisbury
Zimbabwe

Principal
Chibero College of Agriculture
Private Bag 901
P.O. Norton
Zimbabwe
East Africa

Principal
Forest School
of Choujourand Dedza
Zimbabwe
East Africa

Principal
Mlezu Agricultural Institute
Mlezu, Box 311
Que Que
Zimbabwe
East Africa

Principal
Esigodini Agricultural Institute
Private Bag 5808
Essexvale
Zimbabwe
East Africa

Principal
Gwebi College of Agriculture
Private Bag 375B
Salisbury
Zimbabwe
East Africa

GENERAL INFORMATION:

Name: Faculty of Agriculture
University of Zimbabwe
Mailing Address: P. O. Box 167, Mount Pleasant
Salisbury
Zimbabwe

University Established in 1953
Faculty Established in 19 80
Source of Financial Support:
Ministry of Finance (Treasury)
Language(s) of Instruction:
English
Degrees and Qualifications Awarded:
B.Sc., M. Phil., D. Phil.
Minimum Entrance Requirements
for First Degree program:
Two Advanced (A) level subjects

Send in-
quiries to: Dean

Institution accepts Foreign students for:

- (a) Academic Degree programs Yes
 - (b) Educational Exchange programs No
- The Academic Year begins in March
and ends in December

STUDENTS AND GRADUATES

Full-time Student Enrollment in 1979-80:

	Males	Females	Totals
B.Sc. Degree Students	81	13	94
M.S. Degree Students	28	4	32
Advanced Degree Students	9	2	11
Total Number of Full-time Students	118	19	137

Number of 1979 Graduates by Curricula and Academic Level:

Curricula	B.Sc.	M.Sc.	Doct.
Agricultural Sciences	4	1	
Agricultural Extension	4		
Animal Science	4		
Total No. Graduates	12	1	

FACULTY AND DEPARTMENTS

Number of Full and Part-time Faculty Members by level of Education:

Level of Education	Full-time Faculty	Part-time Faculty
B. Sc. Degree or Equivalent		
Ingenieur Agronome	5	8
M. Sc. Degree or Equivalent	1	2
Doctoral Degree	10	4
Total Number	16	14

Academic Departments
Animal Science
Crop Science
Land Management

GENERAL INFORMATION:

Name: Esigodini Agricultural Institute

Mailing: Private Bag 5808
Address: Essexvale
Zimbabwe

Send in-
quiries to: Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>77</u>
STUDENT	Female	_____
ENROLLMENT:	Total	<u>77</u>

Minimum years of education
required for entrance: 9 years

Qualifications awarded: Certificate in
Agriculture

Graduates by Curricula in 1978:

General Agriculture	<u>12</u>
_____	_____
_____	_____
TOTAL	<u>12</u>

GENERAL INFORMATION:

Name: Chibero College of Agriculture

Mailing: Private Bag 901
Address: P. O. Norton
Zimbabwe

Send in-
quiries to: The Principal

STUDENTS AND CURRICULA:

1978/79	Male	<u>80</u>
STUDENT	Female	_____
ENROLLMENT:	Total	<u>80</u>

Minimum years of education
required for entrance: 11 years

Qualifications awarded: Diploma in Agriculture

Graduates by Curricula in 1978:

General Agriculture	<u>27</u>
_____	_____
_____	_____
TOTAL	<u>27</u>

Year established: 1969

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>1</u>	_____	_____	<u>1</u>
Teaching	<u>4</u>	_____	_____	<u>4</u>
Technical	<u>5</u>	_____	_____	<u>5</u>
Total	<u>10</u>	_____	_____	<u>10</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>54</u>
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	<u>21</u>
Agric. development bank, cooperative, etc.	_____
Agri-business firms.....	<u>7</u>
Farming or farm management.....	<u>17</u>
Entered nonagricultural employment.....	<u>1</u>
Continue their education.....	_____
Unemployed.....	_____
Other: _____	<u>100%</u>

Year established: 1961

Source(s)
of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	<u>7</u>	<u>1</u>	_____	<u>8</u>
Teaching	_____	<u>7</u>	_____	<u>7</u>
Technical	<u>7</u>	_____	_____	<u>7</u>
Total	<u>14</u>	<u>8</u>	_____	<u>22</u>

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES: Percent

Government Extension Service.....	<u>60</u>
Teaching in Schools.....	_____
Technical staff at an educational or research institution.....	_____
Agric. development bank, cooperative, etc.	<u>5</u>
Agri-business firms.....	<u>20</u>
Farming or farm management.....	<u>15</u>
Entered nonagricultural employment.....	_____
Continue their education.....	_____
Unemployed.....	_____
Other: _____	<u>100%</u>

GENERAL INFORMATION:

Name: Mlezu Agricultural Institute

Mailing Address: Box 311, Que Que Zimbabwe

Send in-quiries to: The Principal

Year established: 1953

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	2	1		3
Teaching	7			7
Technical	8			8
Total	17	1		18

STUDENTS AND CURRICULA:

1978/79 Teacher Training and STUDENT Agricultural Educ. ENROLLMENT:	Male	225
	Female	
	Total	225

Minimum years of education required for entrance: 9 years

Qualifications awarded: Certificate in Agriculture

Graduates by Curricula in 1978:	
General Agriculture	32
TOTAL	32

Language(s) of instruction: English

Duration of courses: 3 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	65
Teaching in Schools.....	
Technical staff at an educational or research institution.....	20
Agric. development bank, cooperative, etc.	
Agri-business firms.....	5
Farming or farm management.....	8
Entered nonagricultural employment.....	1
Continue their education.....	1
Unemployed.....	
Other: _____	
	100%

GENERAL INFORMATION:

Name: Gwebi College of Agriculture

Mailing Address: Private Bag 376 B., Salisbury Zimbabwe

Send in-quiries to: The Principal

Year established: 1950

Source(s) of Support: Ministry of Agriculture

STAFFING	<B.S	B.S	>B.S	Total
Administrative	7	1		8
Teaching		8		8
Technical	9			9
Total	16	9		25

STUDENTS AND CURRICULA:

1978/79 STUDENT ENROLLMENT:	Male	85
	Female	
	Total	85

Minimum years of education required for entrance: 11 years

Qualifications awarded: Diploma in Agriculture

Graduates by Curricula in 1978:	
General Agriculture	33
TOTAL	33

Language(s) of instruction: English

Duration of courses: 2 years

EMPLOYMENT OF GRADUATES:

	Percent
Government Extension Service.....	5
Teaching in Schools.....	
Technical staff at an educational or research institution.....	
Agric. development bank, cooperative, etc.	
Agri-business firms.....	
Farming or farm management.....	95
Entered nonagricultural employment.....	
Continue their education.....	
Unemployed.....	
Other: _____	
	100%